

LETTER FROM OUR CEO

Dear Fellow Stockholders,

I have never been more excited about the growth opportunities in front of QTS, and I'm enthusiastic about the ability of our strategic platform to capitalize on this transformative moment in the data center industry.

I'll begin by thanking our QTS employees whose commitment to a culture of service has led to QTS receiving the highest customer satisfaction scores in the data center industry. I also want to recognize our Board of Directors and the QTS Executive Team for their partnership and leadership as we guide the Company's strategic initiatives. In addition, I'd like to welcome the two newest members on our Board. Mazen Rawashdeh and Wayne Rehberger. Mr. Rawashdeh joined the QTS Board of Directors in late 2018 and brings a wealth of knowledge and experience in managing largescale, leading-edge technology systems for some of the largest technology companies in the world. Mr. Rehberger joined the QTS Board of Directors earlier this year and his deep experience leading financial organizations for multiple leading communications infrastructure and technology companies provides additional insight and expertise to our Board in capital allocation and overall financial management.

The opportunity within the data center industry continues to grow driven by the expansion of the digital economy. The IT infrastructure requirements of companies across many industries – including hyperscale technology companies – continue to evolve. However, one theme has remained constant – data center requirements are growing significantly. Global data traffic is projected to double every four years¹ and with the introduction of new technology advancements including 5G and artificial intelligence, the outlook for incremental data center capacity needs is clear.

Hybrid Colocation Continues to be a Core Growth Engine

Enterprise customers have long been a core source of growth for QTS and we continue to see the thousands of potential hybrid colocation customers in the market as an attractive vertical and opportunity to diversify our sources of future growth. The underlying demand in our sector for the past 15+ years has been the consistent trend of enterprise companies looking to outsource their data center requirements. The operating leverage, development capability and expertise, and security risk management of third party data center providers like QTS creates an attractive option for hybrid colocation customers executing on their own respective digitization initiatives.

QTS' strategy to execute on the growth opportunity with hybrid colocation customers is built around a differentiated platform that offers customers a fully integrated and technology-enabled data center experience delivered across a scalable data center platform.

QTS Created the First Software-Defined Data Center

QTS' customers represent sophisticated technology and enterprise companies who are accustomed to consuming resources in a seamless, programmatic experience. In 2017, we introduced our software-defined data center platform, the first of its kind in the data center industry. Our softwaredefined platform approach takes physical data center infrastructure and enables it to be remotely accessed and dynamically controlled by customers, even from their laptop or mobile device, in a cloud-like experience. This approach has led public cloud providers at the leading edge of technology, such as Amazon Web Services (AWS), to refer to QTS as an "innovator" in the data center sector. Through this platform, we are able to provide customers with realtime access and visibility into their specific data center environment within QTS, and seamlessly connect them to a variety of leading IT services platforms ranging from AWS and IBM Cloud (public cloud), Nutanix and GDT (private cloud) and PacketFabric and Megaport (connectivity exchanges).

Our ability to enable a broad ecosystem of cloud and connectivity partner solutions through our software-defined platform, combined with QTS' high-end security and compliance, customer service and world-class infrastructure, lays the foundation for our differentiation that we will continue to leverage within our hybrid colocation business.

Growth Opportunities within the Hyperscale Vertical

Over the past five years, our industry has experienced a significant increase in demand specifically tied to data center infrastructure requirements from the largest technology companies in the world whose businesses are accelerating into new growth initiatives including cloud, digital media and artificial intelligence. These hyperscale customers comprise approximately the top 30 leading technology companies around the world including cloud, social media and Web 2.0 platforms. The unprecedented scale of data center infrastructure requirements from these hyperscale customers represents a significant growth



accelerant for the third-party data center industry and serves as an opportunity for QTS to strategically partner with the world's largest and most sophisticated technology companies to support their respective growth initiatives.

Beginning in late 2017, we laid out a plan to intentionally target larger growth opportunities within the hyperscale customer vertical with a dedicated sales focus and footprint expansion into key hyperscale markets including Northern Virginia, the Pacific Northwest and Arizona in addition to QTS' existing core markets. Over the course of 2018 we deepened our relationships with our target group of hyperscale companies and were pleased to announce in early 2018 a 24 megawatt lease commitment in Manassas. VA with one of the largest SaaS providers in the world. This hyperscale lease represented a significant achievement for our sales and development teams as we execute our hyperscale growth strategy. As part of our continued focus on a balanced approach to capital allocation and efficiency, we subsequently announced that we have contributed our new Manassas data center development to a joint venture formed with Alinda Capital Partners, a leading infrastructure investment firm. This joint venture structure provides QTS the opportunity to optimize our capital efficiency and enhance our overall return on invested capital profile, in support of our go-forward hyperscale growth strategy. We will continue to strategically evaluate incremental largescale opportunities with hyperscale companies as a growth accelerant in our business and allocate the resources necessary to support their needs.

We Successfully Implemented Our Strategic Growth Plan

At the beginning of 2018, we laid out a decisive plan to refocus the organization around our hyperscale and hybrid colocation customer verticals to drive accelerated leasing and growth, enhanced profitability, and improved predictability in our business performance. I am pleased to report that during 2018 we successfully completed the implementation of our strategic growth plan and our business performed at a meaningfully higher level as evidenced by our business results over the course of 2018. During 2018, we generated the strongest year of leasing volume in QTS' history totaling approximately \$65M of incremental annualized core rent signed, net of downgrades which represents the annualized revenue from our business that primarily consists of our hyperscale and hybrid colocation leases. This performance resulted in a near-

record backlog of signed but not-yet-commenced revenue exiting 2018 of approximately \$63M. In addition, we achieved a meaningful acceleration in our profitability and reduction in customer churn which is among the lowest in our industry. While we are pleased with the execution of our business plan, we were disappointed in the performance of our stock price in 2018. We are confident in the underlying momentum in our business and believe strong execution on our strategic growth plan in 2018 has successfully laid the foundation for our future growth and opportunity to further enhance our performance, operating efficiency and incremental value creation for stockholders.

Strong 2019 Outlook

As we move into 2019, I am encouraged by the pipeline of demand we are seeing in our sales funnel. With a platform that extends across six million square feet of data center space currently with 650+ acres of land holdings adjacent to our data centers enabling future incremental development capacity, QTS has a strong and visible growth path for many years in the future. Combined with our innovative softwaredefined data center platform and commitment to worldclass customer service, QTS has the unique opportunity to continue to deliver on a balanced growth strategy enabling both hyperscale and hybrid colocation customer data center deployments. The flexibility of our infrastructure to support a broad array of customer profiles and demands provides us the opportunity to maximize our risk-adjusted return on invested capital while providing data center solutions that are critical to the operations of our customers. We will remain focused on balancing our capital allocation to deliver both near-term financial and operating results while continuing to invest in the future growth of our platform.

I'd like to thank you for your continued trust and confidence in QTS. We appreciate your support and look forward to continuing to deliver consistent long-term stockholder value.

> Chad L. Williams Chairman & CEO

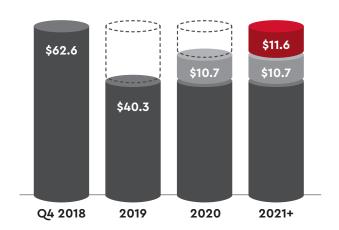
2018 ACHIEVEMENTS

Our financial and operating performance during 2018 was enabled by one of the strongest years of execution in QTS history. We achieved a significant acceleration in our business results in 2018 driven by our focused strategy on delivering next-generation data center solutions to hyperscale and hybrid colocation customers.

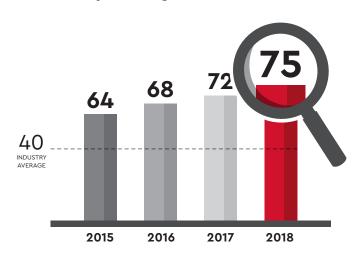
Record Leasing Performance²

2078 207> 55%+ GROWTH YEAR-OVER-YEAR

Near-record \$63M Annualized Backlog (\$M)³



Industry Leading Net Promoter Score







² Core incremental annualized rent signed from new and modified leases

³ Represents backlog of signed, but not yet commenced, annualized revenue as of December 31, 2018; may not sum due to rounding

FOOTPRINT EXPANSION

Approximately 2,000 MWs of Potential Power Capacity Across QTS' Footprint⁴ including Nearly 500 MWs of Power Capacity in Infrastructure-Rich Powered Shell That Can Be Delivered in Six Months or Less at a Significant Cost Advantage

DATA CENTER GREENFIELD CONSTRUCTION



Opened in August 2018; construction to initial customer deployment completed in 10 months



Opened in February 2019; construction to initial customer deployment completed in 10 months

INFRASTRUCTURE-RICH LOW-BASIS CONTINUED EXPANSION







INNOVATION

In late 2017, QTS introduced the industry's first softwaredefined orchestration platform that empowers customers to interact with their data and QTS services by providing real-time visibility, access, and dynamic control of critical metrics across environments from a single platform accessible via Web, Mobile or API. QTS' Service Delivery Platform (SDP) is a powerful differentiator for QTS and was engineered to allow customers to manage and optimize their hybrid colocation and hyperscale deployments. Customers using SDP applications such as Power Analytics, Asset Manager, Roster, and Online Ordering of QTS services are benefiting from greater control over their IT environments and costs, increased security, ease of compliance, and automation. SDP is powered by a data lake encompassing terabytes of numerical information that increases exponentially as new integrations are added. Collectively, the ability to digitize and analyze significant amounts of data enables customers to innovate, automate and make better business decisions to maximize their outsourced IT investment both within QTS and across multiple integrated service providers. We believe SDP represents the future of IT infrastructure service delivery and we are proud to pioneer its growth.

QTS Service Delivery Platform



On QTS' vision for Hybrid Colocation

"You have cemented yourselves as the provider that is pushing the boundaries in development and service delivery. It's clear you are more than just a colo provider."

- Research Vice President, Technology Service Provider Group - Industry Leading Research & Advisory Firm

On how SDP drove the selection of QTS:

"There was not a close 2nd in our evaluation. The innovation of SDP combined with Solution Portability and QTS' NPS made this an easy decision."

- VP of IT (Multi-National Bank)







On how QTS' SDP Platform Interacts with Customers

"The API and programmatic approach, being able to bridge into the physical world is very attractive... I see differentiation here."

- Research Director, Cloud Service Provider Group - Industry Leading Research & Advisory Firm

10% of cross connect orders automated through SDP



New power upgrades representing



\$700k+ Annualized Revenue

On using SDP for their Customers:

"The Power Analytics App is a game-changer. Most of your competitors take 3 weeks to provide this data to our Customers"

- Product Manager (Communications & Technology Service Provider Partner)

On how they leverage SDP Today:

"SDP allowed us to review over and undersubscribed cabinets in real-time, enabling us to shift infrastructure or increase our density."

- IT Director (Alternative Energy & Transportation Provider)





On QTS' Online Ordering, Controls & Automation

"The Cloudification of the physical layer in colocation is very cool... having the ability to slice and dice the data like this, is very compelling."

- Research Director, Cloud Service Provider Group - Industry Leading Research & Advisory Firm

ADVANCEMENTS IN ESG INITIATIVES

QTS was founded in 2005 on a set of core values that continues to represent our approach to interactions with our key stakeholders: customers, employees, investors and communities in which we operate. Our mission at QTS is to empower people and technology and we firmly believe we can execute on our mission with an equal focus on the manner in which we achieve our goals and the results themselves. This means caring for and improving the lives of current and future employees, customers, investors, and community members, and taking equal care of the environment and natural resources we all share. This helps us realize our vision to value and enhance the care of and improvement of human life and minimize our carbon footprint through technology and manpower.

Our commitment to environmental sustainability, social accountability, and corporate governance rooted in sound and trusted core values has never wavered, and it is our responsibility to constantly adapt our business approach to align with worldclass standards in how we operate. To that end, we have taken a significant step forward in our commitment to corporate responsibility by publishing our inaugural Corporate Sustainability Report in conjunction with our 2018 Annual Report. This report details our key Environmental, Social and Governance (ESG) initiatives and is intended to provide transparency to our key stakeholders on the initiatives we have implemented and allow them to evaluate the progress we are making in delivering on our commitment to the highest standards in ESG principles. This initiative supports our core values and demonstrates our continued dedication to transparency and environmental and social responsibility. The full report can be found in the Sustainability section of our website. Highlights of our ESG initiatives include:

ENVIRONMENTAL

Data centers represent approximately 3% of global power usage and, as an industry, we have a responsibility to help protect our natural resources through our infrastructure development and power procurement. This is why QTS, based on our current projections, has a goal of procuring 100% renewable energy by 2025. This long-term commitment represents a significant stake in the ground for QTS, our customers and investors. The availability of carbon-free energy sources continues to grow and capitalizing on that opportunity is the right decision for the environment and for our stakeholders, as we continue to find opportunities to procure renewable energy sources at costs comparable to nonrenewable. QTS is proud to take a leadership role in that effort, and we were recently recognized with the EPA Green Power Partner award for leadership in renewable power in 2018.

We also have implemented innovative solutions in reducing company-wide water use and waste generation. We employ water reduction and recycling methods at many of our sites, including a 4.5 acre rainwater harvesting system at our Atlanta-Metro site that allows us to collect approximately 5.4 million gallons of water per year to use for cooling. As we expand our services, we also have taken great care to responsibly grow our physical footprint. LEED certification and Brownfield development helps us operate efficiently and reduce material use and waste-generation from building new structures.



QTS Blanking Panels

Core Values

Integrity, Character, Trust
Action, Innovation, Accountability
Team Oriented
Respect Our Customers
Support of Family, Faith & Community Volunteerism

SOCIAL

We believe that the most direct way we can impact our stakeholders is through a commitment to integrity, fostering an environment of trust and respect, and embracing our employees' diverse backgrounds, talents and interests. At QTS, our employees are empowered to provide their unique perspective and input. This has enabled QTS to become a leading innovator in the data center sector and consistently rank at the top of our industry in customer service and satisfaction.

We firmly believe in serving something beyond just ourselves and we have created a service culture to maximize QTS' positive impact on our surrounding communities.

In 2012, we established the QTS Community Impact program, designed to enrich the lives of QTS employees and members of the communities in which we serve by providing financial support, technical resources and employees' time to benefit local programs and agencies that strive to enhance the care and improvement of human life. The focus of this program is to enhance our communities and ultimately impact our lives by helping others. To help support this program, we created the QTS 1/1/1 goal to commit 1% of our Talent, Time, and Treasure to help those in need. Since 2012, we have donated approximately \$2.5M, supported over 150 charitable organizations, and contributed more than 10,000 hours of volunteer service.

GOVERNANCE

QTS' corporate governance is structured in a manner that we believe closely aligns the Company's interests with those of its stockholders, employees and customers. QTS' Board of Directors is comprised of experienced independent representatives who are committed to enhancing stockholder value by aligning with corporate governance best practices. QTS was pleased to announce the appointment of Mazen Rawashdeh in 2018 to our Board of Directors as a new independent director. Mr. Rawashdeh brings more than 25 years of experience in the technology industry, specifically in large scale data center infrastructure management and strategy, for some of the largest technology companies in the world. In 2019, Wayne Rehberger joined QTS' Board of Directors as an independent director and took our Board composition to ten total directors, nine of whom are independent. Mr. Rehberger has over 35 years of business strategy and financial experience, and formerly served as SVP and Chief Financial Officer for Engility Holdings, Inc. The addition of Mr. Rawashdeh and Mr. Rehberger brings valuable technology infrastructure and financial knowledge to our Board.

In addition, following extensive engagement with QTS stockholders, QTS announced a number of additional corporate governance modifications during 2018, including the rotation of Board committee chairs and members, the hiring of a new consultant for Board and Executive compensation, a reduction in the Company's related party transactions and the decision to opt out of the Maryland Unsolicited Takeover Act (MUTA). These modifications represent the latest example of the QTS Board's commitment to best-in-class governance policies and position QTS to continue to deliver value for stockholders.



QTS Volunteer Day (January 2019)



QTS Board of Directors

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

			FORM 10-K		
(Mark One)				_	
	PORT PURSUANT TO S	` /	OF THE SECURITIES EXC scal year ended December 31, 20 OR		
□ TRANSITION	REPORT PURSUANT	TO SECTION 13 OR 15	(d) OF THE SECURITIES	EXCHANGE ACT OF 1934	
		For the transition			
			nission File Number 001-36109		
		Q	TS Realty Trust, Inc.	_	
		(Exact name	QualityTech, LP of registrant as specified in its cl	arter)	
	Maryland (QTS Realty				
	Delaware (QualityTe (State or other jurison			27-0707288 (I.R.S. Employer	
	incorporation or orga			Identification No.)	
	12851 Foster Street, Overlar (Address of principal exe			66213 (Zip Code)	
	(Futuress of principal exe		(913) 312-5503		
		` 8	telephone number, including are	,	
	Title of Each Cl	9	ered pursuant to Section 12(b) o	Name of Each Exchange on Which Registered	
	Class A common stock, \$.	01 par value		New York Stock Exchange	
	5% Series A Cumulative Re 0% Series B Cumulative Con			New York Stock Exchange New York Stock Exchange	
Treferred Stock, 0.5	0 70 Series D Cumulative Col		d pursuant to Section 12(g) of th		
				<u> </u>	
Indicate by check mark	if the registrant is a well-know	n seasoned issuer, as defined	l in Rule 405 of the Securities Act		
	Realty Trust, Inc.	Yes ⊠ No □	QualityTech, LP	Yes □ No ⊠	
Indicate by check mark	if the registrant is not required		ection 13 or 15(d) of the Act.		
	Realty Trust, Inc.	Yes □ No ⊠	QualityTech, LP	Yes □ No ⊠	
			been subject to such filing require	e Securities Exchange Act of 1934 during the preceding 12 mements for the past 90 days.	onths (or for
*	Realty Trust, Inc.	Yes ⊠ No □	QualityTech, LP	Yes ⊠ No □	
			teractive Data File required to be ant was required to submit such fil	submitted pursuant to Rule 405 of Regulation S-T ($\S 232.405$ es).	of this
QTS	Realty Trust, Inc.	Yes ⊠ No □	QualityTech, LP	Yes ⊠ No □	
				apter) is not contained herein, and will not be contained, to the n 10-K or any amendment to this Form 10-K. \square	e best of
QTS	Realty Trust, Inc.		QualityTech, LP		
				smaller reporting company, or an emerging growth company. any" in Rule 12b-2 of the Exchange Act.:	See the
QTS Realty Trust, Inc.					
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Non-accelerated filer				Smaller reporting company	
				Emerging growth company	
QualityTech, LP	_				_
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Non-accelerated filer	\boxtimes			Smaller reporting company	
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	()	Z .	ale 12b-2 of the Exchange Act).		
-	Realty Trust, Inc.	Yes □ No ⊠	QualityTech, LP	Yes □ No ⊠	

The aggregate market value of the voting and non-voting common equity held by non-affiliates computed by reference to the price at which the Class A common stock, \$0.01 par value per share, was last sold at June 30, 2018 was approximately \$2.0 billion. There were 51,021,900 shares of Class A common stock and 128,408 shares of Class B common stock, \$0.01 par value per share, of the registrant outstanding on February 22, 2019.

Documents Incorporated by Reference

Portions of the Definitive Proxy Statement for our 2019 Annual Meeting of Stockholders are incorporated by reference into Part III of this report. We expect to file our proxy statement within 120 days after December 31, 2018.

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EXPLANATORY NOTE

This report combines the annual reports on Form 10-K of QTS Realty Trust, Inc. ("QTS") and QualityTech, LP, a Delaware limited partnership, which is our operating partnership (the "Operating Partnership"). This report also includes the financial statements of QTS and those of the Operating Partnership, although it presents only one set of combined notes for QTS' financial statements and those of the Operating Partnership.

Substantially all of QTS's assets are held by, and its operations are conducted through, the Operating Partnership. QTS is the sole general partner of the Operating Partnership, and, as of December 31, 2018, its only material asset consisted of its ownership of approximately 88.5% of the Operating Partnership. Management operates QTS and the Operating Partnership as one business. The management of QTS consists of the same employees as the management of the Operating Partnership. QTS does not conduct business itself, other than acting as the sole general partner of the Operating Partnership and issuing public equity from time to time. QTS has not issued or guaranteed any indebtedness. Except for net proceeds from public equity issuances by QTS, which are contributed to the Operating Partnership in exchange for units of limited partnership interest of the Operating Partnership, the Operating Partnership generates all remaining capital required by our business through its operations, the direct or indirect incurrence of indebtedness, and the issuance of partnership units. Therefore, as general partner with control of the Operating Partnership, QTS consolidates the Operating Partnership for financial reporting purposes.

We believe, therefore, that a combined presentation with respect to QTS and the Operating Partnership, including providing one set of notes for the financial statements of QTS and the Operating Partnership, provides the following benefits:

- enhances investors' understanding of QTS and the Operating Partnership by enabling investors to view the business as a whole in the same manner as management views and operates the business;
- eliminates duplicative disclosure and provides a more streamlined and readable presentation since a substantial portion of the disclosure in this report applies to both QTS and the Operating Partnership; and
- creates time and cost efficiencies through the preparation of one presentation instead of two separate presentations.

In addition, in light of these combined disclosures, we believe it is important for investors to understand the few differences between QTS and the Operating Partnership in the context of how QTS and the Operating Partnership operate as a consolidated company. With respect to balance sheets, the presentation of stockholders' equity and partners' capital are the main areas of difference between the consolidated balance sheets of QTS and those of the Operating Partnership. On the Operating Partnership's consolidated balance sheets, partners' capital includes partnership units that are owned by QTS and other partners. On QTS' consolidated balance sheets, stockholders' equity includes common stock, additional paid-in capital, accumulated other comprehensive income (loss) and accumulated dividends in excess of earnings. The remaining equity reflected on QTS's consolidated balance sheet is the portion of net assets that are retained by partners other than QTS, referred to as noncontrolling interests. With respect to statements of operations, the primary difference in QTS' Statements of Operations and Statements of Comprehensive Income is that for net income (loss), QTS retains its proportionate share of the net income (loss) based on its ownership of the Operating Partnership, with the remaining balance being retained by the Operating Partnership.

In order to highlight the few differences between QTS and the Operating Partnership, there are sections and disclosure in this report that discuss QTS and the Operating Partnership separately, including separate financial statements, separate audit reports, separate controls and procedures sections, separate Exhibit 31 and 32 certifications, and separate presentation of certain accompanying notes to the financial statements, including Note 10 – Partners' Capital, Equity and Incentive Compensation Plans and Note 18 – Quarterly Financial Information (unaudited). In the sections that combine disclosure for QTS and the Operating Partnership, this report refers to actions or holdings as being actions or holdings of "we," "our," "us," "our company" and "the Company." Although the Operating Partnership is generally the entity that enters into contracts, holds assets and issues debt, we believe that these general references to "we," "our," "us," "our company" and "the Company" in this context are appropriate because the business is one enterprise operated through the Operating Partnership.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

Some of the statements contained in this Form 10-K constitute forward-looking statements within the meaning of the federal securities laws. Forward-looking statements relate to expectations, beliefs, projections, future plans and strategies, anticipated events or trends and similar expressions concerning matters that are not historical facts. In particular, statements pertaining to our capital resources, portfolio performance, results of operations, anticipated growth in our funds from operations and anticipated market conditions contain forward-looking statements. In some cases, you can identify forward-looking statements by the use of forward-looking terminology such as "may," "will," "should," "expects," "intends," "plans," "anticipates," "believes," "estimates," "predicts," or "potential" or the negative of these words and phrases or similar words or phrases which are predictions of or indicate future events or trends and which do not relate solely to historical matters. You also can identify forward-looking statements by discussions of strategy, plans or intentions.

The forward-looking statements contained in this Form 10-K reflect our current views about future events and are subject to numerous known and unknown risks, uncertainties, assumptions and changes in circumstances that may cause our actual results to differ significantly from those expressed in any forward-looking statement. We do not guarantee that the transactions and events described will happen as described (or that they will happen at all). The following factors, among others, could cause actual results and future events to differ materially from those set forth or contemplated in the forward-looking statements:

- adverse economic or real estate developments in our markets or the technology industry;
- obsolescence or reduction in marketability of our infrastructure due to changing industry demands;
- global, national and local economic conditions;
- risks related to our international operations;
- difficulties in identifying properties to acquire and completing acquisitions;
- our failure to successfully develop, redevelop and operate acquired properties or lines of business
- significant increases in construction and development costs;
- the increasingly competitive environment in which we operate;
- defaults on, or termination or non-renewal of, leases by customers;
- decreased rental rates or increased vacancy rates;
- increased interest rates and operating costs, including increased energy costs;
- financing risks, including our failure to obtain necessary outside financing;
- dependence on third parties to provide Internet, telecommunications and network connectivity to our data centers;
- our failure to qualify and maintain QTS' qualification as a real estate investment trust ("REIT");
- environmental uncertainties and risks related to natural disasters;
- financial market fluctuations;
- changes in real estate and zoning laws, revaluations for tax purposes and increases in real property tax rates; and;
- limitations inherent in our current and any future joint venture investments, such as lack of sole-decision making authority and reliance on our partners' financial condition

While forward-looking statements reflect our good faith beliefs, they are not guarantees of future performance. We disclaim any obligation to publicly update or revise any forward-looking statement to reflect changes in underlying assumptions or factors, of new information, data or methods, future events or other changes. For a further discussion of these and other factors that could cause our future results to differ materially from any forward-looking statements, see the section entitled "Risk Factors."

PART I

ITEM 1. BUSINESS

Unless the context requires otherwise, references in this Form 10-K to "we," "our," "us," "our company" and "the Company" refer to QTS Realty Trust, Inc. ("QTS"), a Maryland corporation, together with its consolidated subsidiaries, including QualityTech, LP, a Delaware limited partnership, which we refer to in this Form 10-K as the "Operating Partnership" or "predecessor."

Overview

QTS is a leading provider of data center solutions to the world's largest and most sophisticated hyperscale technology companies, enterprises and government agencies. Through our technology-enabled platform, delivered across mega scale data center infrastructure, we offer a comprehensive portfolio of secure and compliant IT solutions. Our data centers are facilities that power and support our customers' IT infrastructure equipment and provide seamless access and connectivity to a range of communications and IT services providers. Across our broad footprint of strategically-located data centers, we provide flexible, scalable, and secure IT solutions including data center space, power and cooling, connectivity and value-add managed services for more than 1,100 customers in the financial services, healthcare, retail, government, and technology industries. We build out our data center facilities to accommodate both multi-tenant environments (hybrid colocation) and for executed leases that require significant amounts of space and power (hyperscale), depending on the needs of each facility at that time. We believe that we own and operate one of the largest portfolios of multi-tenant data centers in the United States, as measured by gross square footage, and have the capacity to nearly double our sellable data center raised floor space without constructing or acquiring any new buildings. In addition, we own more than 650 acres of land that is available at our data center properties that provides us with the opportunity to significantly expand our capacity to further support future demand from current and new potential customers.

We operate a portfolio of 25 data centers located throughout the United States, Canada, Europe and Asia. Within the United States, our data centers are concentrated in the markets which we believe offer the highest growth opportunities. Our data centers are highly specialized, mission-critical facilities utilized by our customers to store, power and cool the server, storage, and networking equipment that support their most critical business systems and processes. We believe that our data centers are best-in-class and engineered to adhere to the highest specifications commercially available to customers, providing fully redundant, high-density power and cooling sufficient to meet the needs of the largest companies and organizations in the world. We have demonstrated a strong operating track record of "five-nines" (99.999%) reliability since QTS' inception.

QTS is a Maryland corporation formed on May 17, 2013 and is the sole general partner and majority owner of QualityTech, LP, our operating partnership (the "Operating Partnership"). Substantially all of our assets are held by, and our operations are conducted through, the Operating Partnership. QTS' Class A common stock trades on the New York Stock Exchange under the ticker symbol "QTS."

The Operating Partnership is a Delaware limited partnership formed on August 5, 2009 and was QTS' historical predecessor prior to QTS's initial public offering on October 15, 2013 (the "IPO"), having operated the Company's business until the IPO. As of December 31, 2018, QTS owned an approximate 88.5% ownership interest in the Operating Partnership.

We believe that QTS has operated and has been organized in conformity with the requirements for qualification and taxation as a REIT commencing with its taxable year ended December 31, 2013. Our qualification as a REIT, and maintenance of such qualification, depends upon our ability to meet, on a continuing basis, various complex requirements under the Internal Revenue Code of 1986, as amended (the "Code") relating to, among other things, the sources of our gross income, the composition and values of our assets, our distributions to our stockholders and the concentration of ownership of our equity shares.

On February 20, 2018, we commenced a strategic growth plan (the "Strategic Growth Plan") focused on realigning our product offerings around our hyperscale and hybrid colocation product offerings while narrowing the scope of cloud and managed services products we deliver and support directly. During 2018, we successfully completed the implementation of our Strategic Growth Plan which resulted in a meaningful acceleration in our hyperscale and hybrid colocation

revenue and leasing performance, enhanced overall profitability in our business and a significant improvement in the overall predictability of our business performance as measured by customer churn.

Our Portfolio

We operate 25 data centers located throughout the United States, Canada, Europe and Asia, containing an aggregate of approximately 6.2 million gross square feet of space, including approximately 2.7 million "basis-of-design" raised floor square feet (approximately 95.5% of which is wholly owned by us including our data center in Santa Clara which is subject to a long-term ground lease), which represents the total sellable data center raised floor potential of our existing data center facilities. This reflects the maximum amount of space in our existing buildings that could be leased following full build-out, depending on the space and power configuration that we deploy. As of December 31, 2018, this space included approximately 1.5 million raised floor operating net rentable square feet, or NRSF, plus approximately 1.3 million square feet of additional raised floor in our development pipeline, of which approximately 154,000 raised floor square feet is expected to become operational by December 31, 2019. Of the total 154,000 raised floor square feet was related to customer leases which had been executed as of December 31, 2019, approximately 103,000 square feet was related to customer leases which had been executed as of December 31, 2018 but not yet commenced. Our facilities collectively have access to approximately 691 megawatts ("MW") of available utility power. Access to power is typically the most limiting and expensive component in developing a data center and, as such, we believe our significant access to power represents an important competitive advantage.

We account for the operations of all our properties in one reporting segment.

Our Customer Base

Our data center facilities are designed with the flexibility to support a diverse set of solutions and customers. Our customer base is comprised of more than 1,100 different companies of all sizes representing an array of industries, each with unique and varied business models and needs. We serve Fortune 1000 companies as well as small and medium-sized businesses, or SMBs, including financial institutions, healthcare companies, retail companies, government agencies, communications service providers, software companies and global Internet companies.

We have customers that range from large enterprise and technology companies with significant IT expertise and data center requirements, including financial institutions, "Big Four" accounting firms and the world's largest global Internet and cloud companies, to major healthcare, telecommunications and software and web-based companies.

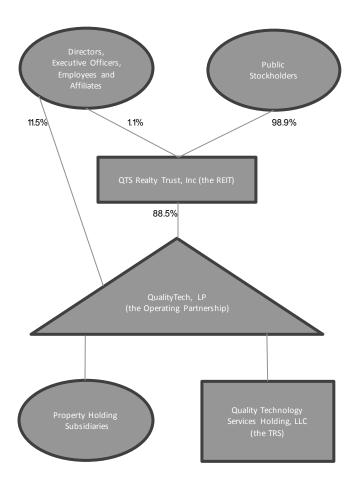
As a result of our diverse customer base, customer concentration in our portfolio is limited. As of December 31, 2018, only five of our more than 1,100 customers individually accounted for more than 3% of our monthly recurring revenue ("MRR") (as defined below), with the largest customer accounting for approximately 12.8% of our MRR and the next largest customer accounting for only 4.9% of our MRR.

The majority of our MRR is generating from customers deployed in our U.S. data center locations. Customers deployed in our U.S. data center locations accounted for \$31.0 million, \$31.3 million and \$30.3 million of total MRR as of December 31, 2018, 2017 and 2016, respectively, and MRR from our international locations represented \$0.2 million, \$0.4 million and \$0.6 million of MRR as of December 31, 2018, 2017 and 2016, respectively. As of December 31, 2018, our booked-not-billed MRR balance (which represents customer leases that have been executed, but for which lease payments have not commenced as of December 31, 2018) was approximately \$5.2 million, or \$62.6 million of annualized rent. As of December 31, 2017, our booked-not-billed MRR balance (which represents customer leases that have been executed, but for which lease payments have not commenced as of December 31, 2017) was approximately \$3.9 million, or \$46.8 million of annualized rent.

Our Structure

Substantially all of our assets are held by, and our operations are conducted through, the Operating Partnership. Our interest in the Operating Partnership entitles us to share in cash distributions from, and in the profits and losses of, the Operating Partnership in proportion to our percentage ownership. As the sole general partner of the Operating Partnership, we generally have the exclusive power under the Operating Partnership's partnership agreement to manage and conduct the Operating Partnership's business and affairs.

The following diagram depicts our ownership structure, on a non-diluted basis as of December 31, 2018.



Our Competitive Strengths

We believe that we are uniquely positioned in the data center industry and distinguish ourselves from other data center providers through the following competitive strengths:

- Software-Defined Data Center Platform QTS' Service Delivery Platform (SDP) is a software-defined orchestration platform that empowers customers to interact with their data and QTS services by providing real-time visibility, access and dynamic control of critical metrics across hybrid environments from a single platform. Collectively, the ability to digitize, analyze and automate significant amounts of data through SDP enables customers to innovate, make better business decisions and maximize their outsourced IT investments both within QTS and across multiple integrated service providers.
- Platform Anchored by Strategically Located, Owned "Mega" Data Centers. Our larger "mega" data centers are located in Ashburn, Atlanta-Metro, Atlanta-Suwanee, Chicago, Fort Worth, Irving, Piscataway, Princeton, and Richmond with future sites available in Ashburn, Phoenix, Hillsboro and Manassas. Our facilities are constructed with the flexibility and capacity to support multi-tenant environments across a broad range of customer types, sizes and IT infrastructure requirements, which we believe delivers greater efficiency than single-use or smaller scale data centers. We believe that our data centers are engineered to among the highest specifications commercially available. As of December 31, 2018, our portfolio of 25 data centers (14 of which are wholly owned, representing 95.5% of our raised square feet, including our data center in Santa Clara which is subject to a long-term ground lease) provides the opportunity to nearly double our sellable data center raised floor capacity without constructing or acquiring any new buildings. In addition, we own more

than 650 acres of land at our existing data center properties that provides us with the opportunity to significantly expand our capacity to further support future demand from current and new potential customers.

- Substantial Data Center Development Expertise. We have gained substantial expertise in developing data center facilities through the acquisition and redevelopment and/or construction of our operating facilities. Our data center development strategy is primarily focused on "mega" scale facilities that allow for significant incremental growth opportunity, either through ground up development or redevelopment of existing data center powered shell footprint. Our data center development strategy allows us to rapidly scale our developments in a modular manner to coincide with customer demand, and drives higher efficiency into our model through increased operating and build cost leverage at scale.
- Balanced Approach to Hyperscale and Hybrid Colocation Verticals. The scale of our facilities combined with our innovative SDP platform and world-class customer service capability, gives us the ability to meet the needs of a broad set of customers ranging from large hyperscale users to smaller enterprises and government agencies. We believe customers will continue to have evolving and diverse IT needs and will prefer providers that can offer the flexibility, scalability and technology solutions that de-risk their future IT journey. We believe our ability to provide solutions to a broad addressable market enhances our leasing velocity, diversifies our customer mix, results in more balanced lease terms and optimizes cash flows from our assets.
- **Diversified, High-Quality Customer Base.** We have significantly grown our customer base from 510 in 2009 to over 1,100 as of December 31, 2018, with our largest customer accounting for approximately 12.8% of our MRR and no others greater than 4.9%. Only five of our customers exceeded 3% of our MRR. Our focus on premium customer service and our ability to grow with their IT needs allows us to achieve a low rental churn rate (which is the MRR lost in the period to a customer intending to fully exit our platform in the near term compared to the total MRR at the beginning of the period).
- Robust In-House Sales Capabilities. Our in-house sales force has deep knowledge of our customers' businesses and IT infrastructure needs and is supported by sophisticated sales management, reporting and incentive systems. Our internal sales force is structured by product offerings, specialized industry segments and, with respect to our colocation product, by geographical region. Therefore, unlike certain other data center companies, we are less dependent on data center brokers to identify and acquire or renew our customers, which we believe is a key enabler of our integrated strategy.
- **Security and Compliance Focused**. Our operations and compliance teams, led by seasoned management, are focused on providing a high level of physical security, cybersecurity and compliance solutions and consulting in all of our data centers and integrated across our product offerings.
- Balance Sheet Positioned to Fund Continued Growth. As of December 31, 2018 we had approximately \$576 million of available liquidity consisting of cash and cash equivalents and the ability to borrow under our unsecured senior revolving credit facility. As we continue to expand our real estate portfolio, we can increase availability under our unsecured senior revolving credit facility by an additional \$500 million through an accordion feature. In addition, during 2018 we demonstrated our ability to open up additional sources of capital to fund our continued growth including the issuance of approximately 3.2 million shares of convertible preferred stock with net proceeds of over \$304 million and approximately 4.3 million shares of perpetual preferred stock for net proceeds of approximately \$103 million.
- Seasoned Management Team with Proven Track Record and Strong Alignment with Our Stockholders.

 Our senior management team represents a strong balance of significant experience across the commercial real estate and technology services industries. We believe our senior management team's experience will enable us to capitalize on industry relationships by accessing capital from various sources and by providing an ongoing pipeline of attractive leasing and development opportunities while ensuring the future differentiation of our technology-enabled platform.
- Ability to Increase Our Margins Through Our Operating Leverage. We anticipate that our business and growth strategies can be substantially supported by our existing platform. The scale of our data center facilities provides a significant opportunity to realize positive operating leverage as we achieve higher

customer occupancy. We achieved 197% growth in Adjusted EBITDA from 2013 to 2018 compared to 153% growth in revenue during the same period.

- Continuing to Selectively Expand Our Platform to Other Strategic Markets. We expect to continue to selectively pursue attractive opportunities in strategic locations where we believe our fully integrated platform would give us a competitive advantage in the leasing of a facility or portfolio of assets. We also believe we can integrate additional data center facilities into our platform without adding significant incremental headcount or general and administrative expenses.
- Commitment to Environmental Sustainability. We have a commitment to environmental sustainability that focuses on managing our data center power and space as effectively and efficiently as possible. We believe that our continued efforts and proven results from sustainably redeveloping properties give us a distinct advantage over our competitors in attracting new customers.

Competition

We compete with developers, owners and operators of data centers and with IT infrastructure companies in the market for data center customers, properties for acquisition and the services of key third-party providers. In addition, we continue to compete with owners and operators of data centers and providers of cloud and managed services that follow other business models and may offer one or more of these services. We believe, however, that our product offerings set us apart from our competitors in the data center industry and makes us more attractive to customers, both large and small. In addition, we believe other providers are seeking ways to enter or strengthen their positions in the data center market.

We compete for customers based on factors including location, network connectivity, critical load capacity, flexibility and expertise in the design and operation of data centers. New customers who consider leasing space at our properties and using our products and existing customers evaluating whether to renew or extend a lease also may consider our competitors, including wholesale infrastructure providers and colocation and managed services providers. In addition, our customers may choose to own and operate their own data centers rather than lease from us.

As an owner, developer and operator of data centers, we depend on certain third-party service providers, including engineers and contractors with expertise in the development of data centers and the provision of managed services. The level of competition for the services of specialized contractors and other third-party providers increases the cost of engaging such providers and the risk of delays in operating our data centers and completing our development and redevelopment projects. We also rely upon the services of specialized contractors for the provision of internet connectivity and software-related platforms and services. Competition for their services could lead to a negative impact on our business if they became unavailable to us.

In addition, we face competition for the acquisition of additional properties suitable for the development of data centers from real estate developers in our industry and in other industries and from customers who develop their own data center facilities. Such competition may have the effect of reducing the number of available properties for acquisition, increasing the price of any acquisition and reducing the demand for data center space in the markets we seek to serve.

Regulation

General

Data centers in our markets are subject to various laws, ordinances and regulations, including regulations relating to common areas. We believe that each of our properties has the necessary permits and approvals to operate its business.

Americans With Disabilities Act

Our properties must comply with Title III of the Americans With Disabilities Act ("ADA") to the extent that such properties are "public accommodations" or "commercial facilities" as defined by the ADA. The ADA may require, for example, removal of structural barriers to access by persons with disabilities in certain public areas of our properties where such removal is readily achievable. We believe that our properties are in substantial compliance with the ADA and that we will not be required to make substantial capital expenditures to address the requirements of the ADA.

However, noncompliance with the ADA could result in imposition of fines or an award of damages to private litigants. The obligation to make readily achievable accommodations is an ongoing one, and we will continue to assess our properties and to make alterations as appropriate in this respect.

Environmental Matters

Under various federal, state and local laws and regulations, a current or former owner or operator of real property may be liable for the cost to remove or remediate contamination resulting from the presence or discharge of hazardous or toxic substances, wastes or petroleum products on, under, from or in such property. These costs could be substantial, liability under these laws may attach without regard to whether the owner or operator knew of, or was responsible for, the presence of the contaminants, and the liability may be joint and several. Most of our properties presently contain large underground or aboveground fuel storage tanks for emergency power, which is critical to our operations. If any of our tanks has a release of fuel to the environment, we likely would have to pay to clean up the contamination. In addition, prior owners and operators used some of our current properties for industrial and other purposes, which could have resulted in environmental contamination. Moreover, the presence of contamination or the failure to remediate contamination at our properties may (1) expose us to third-party liability (e.g., for cleanup costs, bodily injury or property damage), (2) subject our properties to liens in favor of the government for damages and costs the government incurs in connection with the contamination, (3) impose restrictions on the manner in which a property may be used or businesses may be operated, or (4) materially adversely affect our ability to sell, lease or develop the real estate or to borrow using the real estate as collateral. We also may be liable for the costs of remediating contamination at off-site disposal or treatment facilities where we arranged for disposal or treatment of hazardous substances at such facilities, without regard to whether we comply with environmental laws in doing so. Finally, there may be material environmental liabilities at our properties of which we are not aware. Any of these matters could have a material adverse effect on us.

Our properties are subject to federal, state, and local environmental, health, and safety laws and regulations and zoning requirements, including those regarding the handling of regulated substances and wastes, emissions to the environment, and fire codes. For instance, our properties are subject to regulations regarding the storage of petroleum for auxiliary or emergency power and air emissions arising from the use of power generators. In particular, generators at our data center facilities are subject to strict emissions limitations, which could preclude us from using critical back-up systems and lead to significant business disruptions at such facilities and loss of our reputation. In addition, we lease some of our properties to our customers who also are subject to such environmental, health and safety laws and zoning requirements. If we, or our customers, fail to comply with these various requirements, we might incur costs and liabilities, including governmental fines and penalties. Moreover, we do not know whether existing requirements will change or whether future requirements will require us to make significant unanticipated expenditures that will materially and adversely affect us. Environmental noncompliance liability also could affect a customer's ability to make rental payments to us. We require our customers to comply with these environmental and health and safety laws and regulations.

See ITEM 1A. RISK FACTORS, Risks Related to the Real Estate Industry, for additional information regarding these risks.

Privacy and Cybersecurity

We may be directly and/or contractually subject to laws, regulations and policies for protecting sensitive data, consumer privacy and vital national interests. For example, the U.S. government has promulgated regulations and standards subject to authority provided through the enactment of a number of laws, such as the Health Insurance Portability and Accountability Act ("HIPAA"), the Health Information Technology for Economic and Clinical Health Act ("HITECH Act"), the Gramm-Leach-Bliley Act ("GLBA"), and the Federal Information Security Management Act of 2002 ("FISMA"), which require many corporations and federal, state and local governmental entities to control the security of, access to and configuration of their IT systems. A number of states also have enacted laws and regulations that require covered entities, such as data center operators, to implement and maintain security measures to protect certain types of information, such as Social Security numbers, payment card information, and other types of data, from unauthorized use and disclosure. In addition, industry organizations have adopted and implemented various security and compliance policies. For example, the Payment Card Industry Security Standards Council has issued its mandatory Payment Card Industry Data Security Standard ("PCI DSS") which is applicable to all organizations processing payment card transactions. In addition to federal laws, the state of California passed the California Consumer Privacy Act ("CCPA") in 2018, which regulates data collection and privacy collection. California's law may still be subject to amendments before it goes into effect on January 1, 2020, and other states are considering similar laws.

In connection with certain of these laws, we are subject to audits and assessments, and we may be required to obtain certain certifications. Audit failure or findings of non-compliance can lead to significant fines or decertification from engaging in certain activities. For example, violations of HIPAA/HITECH Act regulations can lead to fines of up to \$1.5 million for all violations of a particular provision in a calendar year and our failure to demonstrate compliance in an annual PCI DSS audit may result in fines and exclusion from payment card networks. Additionally, violations of privacy or security laws, regulations or standards increasingly lead to class-action litigation, which can result in substantial monetary judgments or settlements. We cannot assure you that future laws, regulations and standards, or future interpretations of current laws, regulations and standards, related to privacy and security will not have a material adverse effect on us.

As a company that may process European personal data, we also may be subject to European data protection laws and regulations. The European Union (EU) Commission, Parliament, and Council adopted in April 2016 a new General Data Protection Regulation (GDPR) that took effect in May 2018. The GDPR replaced the former European privacy regime, imposes new privacy requirements, and increases the likelihood of applicability of European law to entities like us, which are established outside the EU but may process data of European data subjects. Under the GDPR, there can be fines of up to &10,000,000 or up to 2% of the global sales, whichever is greater, for certain comparatively minor offenses, or up to &20,000,000 or up to 4% of the global sales, whichever is greater, for more serious offenses.

To facilitate and legitimize the transfer of both client and personnel data from the European Union ("EU") to the United States, we self-certified to the U.S. Department of Commerce that we adhere to the EU-U.S. Privacy Shield Framework, which requires organizations operating in the United States to provide assurance that they are adhering to relevant European standards for data protection for such transfers. QTS complies with the EU-U.S. Privacy Shield Framework as set forth by the Department of Commerce regarding the collection, use and retention of personal information transferred from the EU to the United States. However, our self-certification under the EU-U.S. Privacy Shield Framework may not be sufficient to ensure compliance with GDPR. Legal challenges have been brought in European courts seeking to declare the Privacy Shield Framework invalid under European law as a mechanism to legitimize transfers of personal data from the EU to the United States, which could require us to implement alternative means to address European cross border data transfer requirement. Also in 2018, EU member states were required to enact national laws to enforce the EU's "Directive on security of network and information systems" (the "NIS Directive"), which lays out a number of cybersecurity expectations and notification obligations for regulated entities.

Insurance

We carry comprehensive liability, property, extended coverage, earthquake, flood, business interruption and rental loss insurance covering all of the properties in our portfolio under a blanket property policy. We also carry coverage for general liability, technology professional liability, and cybersecurity. We have selected policy specifications and insured limits that we believe to be appropriate given the relative risk of loss, the cost of the coverage and industry practice and, in the opinion of our management, the properties in our portfolio are currently adequately insured and the risk for any failure related to professional liability or a physical or cybersecurity breach are adequately covered by our insurance. We will not carry insurance for generally uninsured losses such as loss from riots, war, wet or dry rot, vermin and, in some cases, flooding and earthquake, because such coverage is not available or is not available at commercially reasonable rates. In addition, although we carry earthquake and flood insurance on our properties in an amount and with deductibles that we believe are commercially reasonable, such policies are subject to limitations in certain flood and seismically active zones. Certain of the properties in our portfolio are located in areas known to be seismically active. See "Risk Factors—Risks Related to the Real Estate Industry—Uninsured and underinsured losses could have a material adverse effect on us."

Employees

As of December 31, 2018, we employed approximately 606 persons, none of whom were represented by a labor union. We believe our relations with our employees are good.

Offices

Our executive headquarters is located at 12851 Foster Street, Overland Park, Kansas 66213, where our telephone number is (913) 814-9988. We believe that our current offices are adequate for our present operations; however, based on the anticipated growth of our company, we may add regional offices depending upon our future operational needs.

Available Information

Our Internet website address is *www.qtsdatacenters.com*. You can obtain on our website, free of charge, a copy of our Annual Report on Form 10-K, our quarterly reports on Form 10-Q, our current reports on Form 8-K, and any amendments to those reports, as soon as reasonably practicable after we electronically file such reports or amendments with, or furnish them to, the SEC. Our Internet website and the information contained therein or connected thereto are not intended to be incorporated into this Annual Report on Form 10-K.

Also available on our website, free of charge, are copies of our Code of Business Conduct and Ethics, our Corporate Governance Guidelines, and the charters for each of the committees of our board of directors—the Audit Committee, the Nominating and Corporate Governance Committee, and the Compensation Committee.

ITEM 1A. RISK FACTORS

Set forth below are the risks that we believe are material to our stockholders. You should carefully consider the following risks in evaluating our Company and our business. If any of the risks discussed in this Form 10-K were to occur, our business, prospects, financial condition, liquidity, funds from operations and results of operations and our ability to service our debt and make distributions to our stockholders could be materially and adversely affected, which we refer to herein collectively as a "material adverse effect on us," the market price of our common stock could decline significantly and you could lose all or part of your investment. Some statements in this Form 10-K, including statements in the following risk factors, constitute forward-looking statements. Please refer to the section entitled "Special Note Regarding Forward-Looking Statements" at the beginning of this Form 10-K.

Risks Related to Our Business and Operations

Because we are focused on the ownership, operation, redevelopment and/or construction of data centers, any decrease in the demand for data center space could have a material adverse effect on us.

Because our portfolio consists entirely of data centers, or land to be developed or converted into data centers, we are subject to risks inherent in investments in a single industry. Adverse developments in the data center market or in the industries in which our customers operate could lead to a decrease in the demand for data center space, which could have a greater material adverse effect on us than if we owned a more diversified real estate portfolio. These adverse developments could include: a decline in the technology industry, such as a decrease in the use of mobile or web-based commerce, industry slowdowns, business layoffs or downsizing, relocation of businesses, increased costs of complying with existing or new government regulations and other factors; a slowdown in the growth of the Internet generally as a medium for commerce and communication; a downturn in the market for data center space generally such as oversupply of or reduced demand for space; and the rapid development of new technologies or the adoption of new industry standards that render our or our customers' current products and services obsolete or unmarketable and, in the case of our customers, that contribute to a downturn in their businesses, increasing the likelihood of a default under their leases or that they become insolvent or file for bankruptcy protection. To the extent that any of these or other adverse conditions occur, they are likely to impact market rents for, and cash flows from, our data center space, which could have a material adverse effect on us.

Our data center infrastructure may become obsolete or unmarketable and we may not be able to upgrade our power, cooling, security or connectivity systems cost-effectively or at all.

The markets for the data centers we own and operate, as well as certain of the industries in which our customers operate, are characterized by rapidly changing technology, evolving industry standards, frequent new service introductions, shifting distribution channels and changing customer demands. As a result, the infrastructure at our data centers may become obsolete or unmarketable due to demand for new processes and/or technologies, including, without limitation: (i) new processes to deliver power to, or eliminate heat from, computer systems; (ii) customer demand for additional redundancy capacity or, conversely, reduced redundancy capacity; or (iii) new technology that permits lower levels of critical load and heat removal than our data centers are currently designed to provide. In addition, the systems that connect our data centers to the Internet and other external networks may become outdated, including with respect to latency, reliability and diversity of connectivity. When customers demand new processes or technologies, we may not be able to upgrade our data centers on a cost-effective basis, or at all, due to, among other things, increased expenses to us that cannot be passed on to customers or insufficient revenue to fund the necessary capital expenditures. The

obsolescence of our power and cooling systems and/or our inability to upgrade our data centers, including associated connectivity, could reduce revenue at our data centers and could have a material adverse effect on us. Furthermore, potential future regulations that apply to industries we serve may require customers in those industries to seek specific requirements from their data centers that we are unable to provide. These may include physical security regulations applicable to the defense industry and government contractors and privacy and security requirements applicable to the financial services and health care industries. If such regulations were adopted, we could lose customers or be unable to attract new customers in certain industries, which could have a material adverse effect on us.

We face considerable competition in the data center industry and may be unable to renew existing leases, lease vacant space or re-let space on more favorable terms, or at all, as leases expire, which could have a material adverse effect on us.

Leases representing approximately 21% of our leased raised floor and approximately 33% of our annualized rent (including all month-to-month leases), in each case as of December 31, 2018, are scheduled to expire by the end of 2019. We compete with numerous developers, owners and operators in the data center industry, including managed service providers and other REITs, some of which own or lease properties similar to ours, or may do so in the future, in the same submarkets in which our properties are located. Our competitors may have significant advantages over us, including greater name recognition, longer operating histories, higher operating margins, pre-existing relationships with current or potential customers, greater financial, marketing and other resources, and access to greater and less expensive power. These advantages could allow our competitors to respond more quickly to strategic opportunities or changes in our industry or markets. If our competitors offer space at rental rates below current market rates or below the rental rates we currently charge our customers, or if our competitors offer products and services in a greater variety, that are more stateof-the-art or that are more competitively priced than the products and services we offer, we may lose customers or be unable to attract new customers without lowering our rental rates and improving the quality, mix and technology of our products and services. We cannot assure you that we will be able to renew leases with our existing customers or re-let space to new customers if our current customers do not renew their leases. Even if our customers renew their leases or we are able to re-let the space, the terms (including rental rates and lease periods) and costs (including capital) of renewal or re-letting may be less favorable than the terms of our current leases. In addition, there can be no assurances that the type of space and/or services currently available at our properties will be sufficient to retain current customers or attract new customers in the future. Although we offer a full spectrum of data center products from hyperscale to hybrid colocation to certain cloud and managed services, our competitors that specialize in only one of our product and service offerings may have competitive advantages in that space. If rental rates for our properties decline, we are unable to lease vacant space, our existing customers do not renew their leases or we do not re-let space from expiring leases, in each case, on favorable terms, it could have a material adverse effect on us.

Our business could be negatively affected as a result of actions by activist stockholders.

Stockholder campaigns to effect changes in publicly-traded companies are sometimes led by activist investors through various corporate actions, including proxy contests. Responding to these actions can disrupt our operations by diverting the attention of management and our employees as well as our financial resources. Stockholder activism could create perceived uncertainties as to our future direction, which could result in the loss of potential business opportunities and make it more difficult to attract and retain qualified personnel and business partners. Furthermore, the election of individuals to our board of directors with a specific agenda could adversely affect our ability to effectively and timely implement our strategic plans.

The long sales cycle for data center products could have a material adverse effect on us.

A customer's decision to lease space in one of our data centers typically involves a significant commitment of resources, time-consuming contract negotiations regarding the service level commitments and substantial due diligence on the part of the customer regarding the adequacy of our infrastructure and attractiveness of our products and services. As a result, the leasing of data center space has a long sales cycle. Furthermore, we may expend significant time and resources in pursuing a particular sale or customer that may not result in any revenue. Our inability to adequately manage the risks associated with leasing the space and products within our facilities could have a material adverse effect on us.

Our customers may choose to develop new data centers or expand their own existing data centers, which could result in the loss of one or more key customers or reduce demand and pricing for our data centers and could have a material adverse effect on us.

Some of our customers may develop their own data center facilities. Other customers with their own existing data centers may choose to expand their data centers in the future. In the event that any of our key customers were to develop or expand their data centers, it could result in a loss of business to us or put downward pressure on our pricing. If we lose a customer, there is no assurance that we would be able to replace that customer at the same or a higher rate, or at all, which could have a material adverse effect on us.

The bankruptcy, insolvency or financial difficulties of a major customer could have a material adverse effect on us.

The bankruptcy or insolvency of a major customer could have significant consequences for us. If any customer becomes a debtor in a case under the federal Bankruptcy Code, we cannot evict the customer solely because of the bankruptcy. In addition, the bankruptcy court might authorize the customer to reject and terminate its lease with us. Our claim against the customer for unpaid future rent would be subject to a statutory cap that might be substantially less than the remaining rent owed under the lease. In either case, our claim for unpaid rent likely would not be paid in full. If any of our significant customers were to become bankrupt or insolvent or suffer a downturn in their business, they may fail to renew, or reject or terminate, their leases with us and/or fail to pay unpaid or future rent owed to us, which could have a material adverse effect on us.

Any inability, temporarily or permanently, to fully and consistently operate either of our Atlanta-Metro and Atlanta-Suwanee properties could have a material adverse effect on us.

Our two largest wholly-owned properties in terms of annualized rent, Atlanta-Metro and Atlanta-Suwanee, collectively accounted for approximately 42% of our annualized rent as of December 31, 2018. Therefore, any inability, temporarily or permanently, to fully and consistently operate either of these properties could have a material adverse effect on us. In addition, because both properties are located in the Atlanta metropolitan area, we are particularly susceptible to adverse developments in that area, including as a result of natural disasters (such as hurricanes, floods, tornadoes and other events), that could cause, among other things, permanent damage to the properties and electrical power outages that may last beyond our backup and alternative power arrangements. Further, Atlanta-Metro and Atlanta-Suwanee account for several of our largest leases in terms of MRR. Any nonrenewal, credit or other issues with large customers could adversely affect the performance of these properties.

We may be adversely affected by the economies and other conditions of the markets in which we operate, particularly in Atlanta and other metropolitan areas, where we have a high concentration of our data center properties.

We are susceptible to adverse economic or other conditions in the geographic markets in which we operate, such as periods of economic slowdown or recession, the oversupply of, or a reduction in demand for, data centers in a particular area, industry slowdowns, layoffs or downsizings, relocation of businesses, increases in real estate and other taxes and changing demographics. The occurrence of these conditions in the specific markets in which we have concentrations of properties could have a material adverse effect on us. Our Atlanta area data centers and our data centers in Virginia (including Richmond, Ashburn, the Vault and leased facilities acquired in 2015), accounted for approximately 42% and 19%, respectively, of our annualized rent as of December 31, 2018. As a result, we are particularly susceptible to adverse market conditions in these areas. In addition, other geographic markets could become more attractive for developers, operators and customers of data center facilities based on favorable costs and other conditions to construct or operate data center facilities in those markets. For example, some states have created tax incentives for developers and operators to locate data center facilities in their jurisdictions. These changes in other markets may increase demand in those markets and result in a corresponding decrease in demand in our markets. Any adverse economic or real estate developments in the geographic markets in which we have a concentration of properties, or in any of the other markets in which we operate, or any decrease in demand for data center space resulting from the local business climate or business climate in other markets, could have a material adverse effect on us.

Challenging economic and other market conditions could have a material adverse effect on us.

The cost and availability of credit may be limited if global or national market conditions deteriorate. Furthermore, deteriorating economic and other market conditions that affect our customers could negatively impact commercial real

estate fundamentals and result in lower occupancy, lower rental rates and declining values in our real estate portfolio. Additionally, the economic climate could have an impact on our lenders or customers, causing them to fail to meet their obligations to us. A long-term continuance of challenging economic and other market conditions could have a material adverse effect on us.

Future consolidation and competition in our customers' industries could reduce the number of our existing and potential customers and make us dependent on a more limited number of customers.

Mergers or consolidations in our customers' industries in the future could reduce the number of our existing and potential customers and make us dependent on a more limited number of customers. If our customers merge with or are acquired by other entities that are not our customers, they may discontinue or reduce the use of our data centers in the future. Any of these developments could have a material adverse effect on us.

Our failure to develop and maintain a diverse customer base could have a material adverse effect on us.

Our customers are a mix of hyperscale and hybrid colocation. Each type of customer and their leases with us have certain features that distinguish them from our other customers, such as operating margin, space and power requirements and lease term. In addition, our customers engage in a variety of professional, financial, technological and other businesses. A diverse customer base helps to minimize exposure to economic fluctuations in any one industry, business sector or customer type, or any particular customer. Our relative mix of products used by our customers may change over time, as may the industries represented by our customers, the concentration of customers within specified industries and the economic value and risks associated with each customer, and there is no assurance that we will be able to maintain a diverse customer base, which could have a material adverse effect on us.

Our government customers, contracts and subcontracts may subject us to additional risks, including early termination, audits, investigations, sanctions and penalties, which could have a material adverse effect on us.

We derive revenue from contracts with the U.S. government, state and local governments and from subcontracts with government contractors. Some of these customers may be entitled to terminate all or part of their contracts at any time, without cause.

Recently, political pressure has increased for governments and their agencies, both domestically and internationally, to reduce spending. Some of our federal government contracts and subcontracts are directly or indirectly subject to Congressional approval of appropriations to fund the expenditures under these contracts. Similarly, some of our state and local contracts and subcontracts are subject to government funding authorizations. To the extent that funding underlying any of these government contracts or subcontracts is reduced or eliminated, whether by failure to get Congressional approval or as a result of partial U.S. government shutdowns, there is an increased risk of termination by the counterparties, which could have a material adverse effect on us.

Government contracts and subcontracts also are generally subject to government audits and investigations. To the extent we fail to comply with laws or regulations related to such contracts, any such audit or investigation of us could result in various civil and criminal penalties and administrative sanctions, including termination of such contracts, refund of a portion of fees received, forfeiture of profits, suspension of payments, fines and suspensions or debarment from future government business, any of which could have a material adverse effect on us.

We derive significant revenue from our largest customers, and the loss or significant reduction in business from one or more of these customers could have a material adverse effect on us.

Our top 10 customers collectively accounted for approximately 39% of our portfolio's total MRR as of December 31, 2018. We have one customer that accounted for approximately 12.8% of our MRR and the next largest customer accounted for only 4.9% of our MRR as of December 31, 2018. As a result, if we lose and are unable to replace one or more of these customers, if these customers significantly reduce their business with us or default on their obligations to us or if we choose not to enforce, or to enforce less vigorously, any rights that we may have now or in the future against these significant customers because of our desire to maintain our relationship with them, our business, financial condition and results of operations, including the amount of cash available for distribution to our stockholders, could be materially adversely affected

Our future growth depends upon the successful expansion or redevelopment of our existing properties, the development of new properties, and any delays or unexpected costs in such expansion, redevelopment or development could have a material adverse effect on us.

We have initiated or are contemplating the redevelopment of multiple of our existing data center properties including: Atlanta-Metro, Irving, Santa Clara, Piscataway, Chicago, Fort Worth, Ashburn, and Manassas. Our future growth depends upon the successful completion of these efforts, as well as on development of new properties including Phoenix and Hillsboro. With respect to our current and any future expansions, developments and redevelopments, we will be subject to certain risks, including the following:

- financing risks;
- increases in interest rates or credit spreads;
- site selection and lack of availability of adequate properties for development;
- construction and/or lease-up delays;
- changes to plans or specifications;
- construction site accidents or other casualties;
- lack of availability of, and/or increased costs for, specialized data center components, including long lead-time items such as generators;
- cost overruns, including construction or labor costs that exceed our original estimates;
- failure of contractors to perform on a timely basis or at all, or other misconduct on the part of contractors;
- contractor and subcontractor disputes, strikes, labor disputes or supply disruptions;
- environmental issues, fire, flooding, earthquakes and other natural disasters;
- delays with respect to obtaining or the inability to obtain necessary zoning, occupancy, environmental, land use and other governmental permits, and changes in zoning and land use laws, particularly with respect to build-outs at our Santa Clara facility;
- failure to achieve expected occupancy and/or rental rate levels within the projected time frame, if at all; and
- sub-optimal mix of products.

In addition, with respect to any expansions, developments or redevelopments, we will be subject to risks and, potentially, unanticipated costs associated with obtaining access to a sufficient amount of power from local utilities, including the need, in some cases, to develop utility substations on our properties in order to accommodate our power needs, constraints on the amount of electricity that a particular locality's power grid is capable of providing at any given time, and risks associated with the negotiation of long-term power contracts with utility providers. Similarly, we will be subject to the risks and, potentially, unanticipated costs associated with obtaining access to sufficient internet, telecommunication and fiber optic network connectivity. We may not be able to successfully negotiate such contracts on favorable terms, or at all. Any inability to negotiate utility or telecommunications contracts on a timely basis or on favorable terms or in volumes sufficient to supply the critical load and connectivity anticipated for future developments could have a material adverse effect on us.

While we intend to develop data center properties primarily in markets with which we are familiar, we have and may in the future acquire properties in new geographic markets where we expect to achieve favorable risk-adjusted returns on our investment. We may not possess the same level of familiarity with development or redevelopment in these new markets and therefore cannot assure you that our development activities will generate attractive returns. Furthermore, development and redevelopment activities, regardless of whether they are ultimately successful, also typically require a substantial portion of our management's time and attention. This may distract our management from focusing on other operational activities of our business.

These and other risks could result in delays, increased costs and a lower stabilized return on invested capital and could prevent completion of our development and expansion projects once undertaken, which could have a material adverse effect on us. In addition, we are expanding the aforementioned properties, and may develop or expand properties in the future, prior to obtaining commitments from customers to lease them. This is known as developing or expanding "on speculation" and involves the risk that we will be unable to attract customers to the properties on favorable terms in a timely manner, if at all. In addition to our internal sales force, through our channels and partners team, we intend to use our existing industry relationships with national technology companies to retain and attract customers for our existing data center properties as well as the expansions and developments of such properties. We believe these industry relationships provide an ongoing pipeline of attractive leasing opportunities, and we intend to capitalize on these

relationships in order to increase our leasing network. If our internal sales force or channels and partners team is not successful in leasing new data center space on favorable terms, it could have a material adverse effect on us.

We may commence development of a data center facility prior to having received any commitments from customers to lease any space in the facility and any extended vacancies could have a material adverse effect on our business, results of operations and financial condition.

As part of our growth strategy, we intend to commit substantial operational and financial resources to develop new data centers and expand existing ones. However, we may not require pre-leasing commitments from customers before we develop or expand a data center, and we may not have sufficient customer demand to lease the new data center space when completed. Once development of a data center is complete, we incur a certain amount of operating expenses even if there are no tenants occupying the space. A lack of customer demand for data center space or excess capacity in the data center market could impair our ability to achieve our expected rate of return on our investment, which could have a material adverse effect on our financial condition, operating results and the market price of our common stock.

Our properties are designed primarily for lease as data centers, which could make it difficult to reposition them if we are not able to lease or re-let available space.

Our properties are highly specialized properties that contain extensive electrical, communications and mechanical systems. Such systems are often custom-designed to house, power and cool certain types of computer systems and networking equipment. Any office space (such as private office space, open office areas and conference centers) located at our properties is merely complementary to such systems, to facilitate our ability to service and maintain them. As a result, our properties are not well-suited for primary use by customers as anything other than data centers. Major renovations and expenditures would be required to convert the properties for use as commercial office space, or for any other use, which would substantially reduce the benefits from such a conversion. In the event of a conversion, the value of our properties may be impaired due to the costs of reconfiguring the real estate for alternate purposes and the removal or modification of the specialized systems and equipment. The highly specialized nature of our data center properties could make it difficult and costly to reposition them if we are not able to lease or re-let available space on favorable terms, or at all, which could have a material adverse effect on us.

We lease space in several locations under long-term non-cancellable lease agreements and the non-renewal or loss of such leases, or the continuing obligations under such leases in the event of a loss of customers or customer revenues, could have a material adverse effect on us.

We lease the space that houses our data centers in several locations under long-term lease agreements. For example, we lease the space housing our data centers in Jersey City, New Jersey and Overland Park, Kansas, where our corporate headquarters is located, under leases expiring (taking into account our extension options) in 2031 and 2028 respectively. We also lease data center space in several locations under non-cancellable leases expiring through 2026 and, in turn, sublease that space to our customers. The landlords could attempt to evict us for reasons beyond our control and we may incur costs if we are forced to vacate this space due to the high costs of relocating the equipment in these facilities and installing the necessary infrastructure in a new data center property. If we are forced to vacate any of these facilities, we could lose customers that chose our services based on our location. In addition, we cannot assure you that we will be able to renew these leases prior to their expiration dates on favorable terms or at all. Certain of such leases relate to data centers owned by companies that may view us as a competitor, which may impact their willingness to extend these leases upon expiration. If we are unable to renew these lease agreements, we could lose a significant number of customers who are unwilling to relocate their equipment to another one of our data center properties, which could have a material adverse effect on us. Even if we are able to renew these leases, the terms and other costs of renewal may be less favorable than our existing lease arrangements. Failure to sufficiently increase revenue from customers at these facilities to offset these projected higher costs could have a material adverse effect on us. Further, we may be unable to maintain good working relationships with our landlords, which would adversely affect our relationship with our customers and could result in the loss of current customers.

In addition, the terms of our customer contracts are, in many cases, of shorter duration than the non-cancellable lease agreements for data center space described above. We are obligated to make payments on these long-term non-cancellable leases regardless of whether our customer contracts are terminated or expire and regardless of whether our customers continue to make payments under their contracts. To the extent we experience a loss of customers or customer revenue, including upon expiration or termination of customer contracts, our continuing obligations under the non-

cancellable lease agreements for data center space may result in expenses to us without offsetting revenue, which could have a material adverse effect on us.

The ground sublease structure at our Santa Clara property could prevent us from developing the property as we desire, and we may have to incur additional expenses prior to the end of the ground sublease to restore the property to its prelease state.

Our interest in the Santa Clara property is subject to a ground sublease granted by a third party, as ground sublessor, to our indirect subsidiary Quality Investment Properties Santa Clara, LLC ("OIP Santa Clara"). The ground sublease terminates in 2052 and we have two options to extend the original term for consecutive ten-year terms. The ground sublease structure presents special risks. We, as ground sublessee, will own all improvements on the land, including the buildings in which the data centers are located during the term of the ground sublease. Upon the expiration or earlier termination of the ground sublease, however, the improvements on the land will become the property of the ground sublessor. Unless we purchase a fee interest in the land and improvements subject to the ground sublease, we will not have any economic interest in the land or improvements at the expiration of the ground sublease. Therefore, we will not share in any increase in value of the land or improvements beyond the term of the ground sublease, notwithstanding our capital outlay to purchase our interest in the data center or fund improvements thereon, and will lose our right to use the building on the subleased property. In addition, upon the expiration of the ground sublease, the ground sublessor may require the removal of the improvements or the restoration of the improvements to their condition prior to any permitted alterations at our sole cost and expense. If we do not meet a certain net worth test, we also will be required to provide the ground sublessor with a bond in connection with such removal and restoration requirements. In addition, while we generally have the right to undertake alterations to the demised premises, the ground sublessor has the right to reasonably approve the quality of such work and the form and content of certain financial information of QIP Santa Clara. The ground sublessor need not give its approval to alterations if it or its affiliate determines that the work will have a material adverse impact on the fee interest in property adjacent to the demised premises. In addition, though the ground sublease provides that we may exercise the rights of ground lessor in the event of a rejection of the master ground lease, each of the master ground lease and the ground sublease may be rejected in bankruptcy. Finally, in the event of a condemnation, the ground lessor is entitled to an allocable share of any condemnation proceeds. The ground sublease, however, does contain important nondisturbance protections and provides that, in event of the termination of the master ground lease, the ground sublease will become a direct lease between the ground lessor and QIP Santa Clara.

We depend on third parties to provide Internet, telecommunication and fiber optic network connectivity to the customers in our data centers, and any delays or disruptions in service could have a material adverse effect on us.

Our products and infrastructure rely on third-party service providers. In particular, we depend on third parties to provide Internet, telecommunication and fiber optic network connectivity to the customers in our data centers, and we have no control over the reliability of the services provided by these suppliers. Our customers may in the future experience difficulties due to service failures unrelated to our systems and services. Any Internet, telecommunication or fiber optic network failures may result in significant loss of connectivity to our data centers, which could reduce the confidence of our customers and could consequently impair our ability to retain existing customers or attract new customers and could have a material adverse effect on us.

Similarly, we depend upon the presence of Internet, telecommunications and fiber optic networks serving the locations of our data centers in order to attract and retain customers. The construction required to connect multiple carrier facilities to our data centers is complex, requiring a sophisticated redundant fiber network, and involves matters outside of our control, including regulatory requirements and the availability of construction resources. Each new data center that we develop requires significant amounts of capital for the construction and operation of a sophisticated redundant fiber network. We believe that the availability of carrier capacity affects our business and future growth. We cannot assure you that any carrier will elect to offer its services within our data centers or that once a carrier has decided to provide connectivity to our data centers that it will continue to do so for any period of time. Furthermore, some carriers are experiencing business difficulties or have announced consolidations or mergers. As a result, some carriers may be forced to downsize or terminate connectivity within our data centers, which could adversely affect our customers and could have a material adverse effect on us.

Power outages, limited availability of electrical resources and increased energy costs could have a material adverse effect on us.

Our data centers are subject to electrical power outages, regional competition for available power and increased energy costs. We attempt to limit exposure to system downtime by using backup generators and power supplies generally at a significantly higher operating cost than we would pay for an equivalent amount of power from a local utility. However, we may not be able to limit our exposure entirely even with these protections in place. Power outages, which may last beyond our backup and alternative power arrangements, would harm our customers and our business. During power outages, changes in humidity and temperature can cause permanent damage to servers and other electrical equipment. We could incur financial obligations or be subject to lawsuits by our customers in connection with a loss of power. Any loss of services or equipment damage could reduce the confidence of our customers in our services and could consequently impair our ability to attract and retain customers, which could have a material adverse effect on us.

In addition, power and cooling requirements at our data centers are increasing as a result of the increasing power and cooling demands of modern servers. Since we rely on third parties to provide our data centers with sufficient power to meet our customers' needs, and we generally do not control the amount of power drawn by our customers, our data centers could have a limited or inadequate amount of electrical resources.

We also may be subject to risks and unanticipated costs associated with obtaining power from various utility companies. Utilities that serve our data centers may be dependent on, and sensitive to price increases for, a particular type of fuel, such as coal, oil or natural gas. The price of these fuels and the electricity generated from them could increase as a result of proposed legislative measures related to climate change or efforts to regulate carbon emissions. While our wholesale customers are billed on a pass-through basis for their direct energy usage, our retail customers pay a fixed cost for services, including power, so any excess energy costs above such fixed costs are borne by us. Although, for technical and practical reasons, our retail customers often use less power than the amount we are required to provide pursuant to their leases, there is no assurance that this will always be the case. Although we have a diverse customer base, the concentration and mix of our customers may change and increases in the cost of power at any of our data centers would put those locations at a competitive disadvantage relative to data centers served by utilities that can provide less expensive power. This could adversely affect our relationships with our customers and hinder our ability to operate our data centers, which could have a material adverse effect on us.

We rely on the proper and efficient functioning of computer and data-processing systems, and a large-scale malfunction could have a material adverse effect on us.

Our ability to keep our data centers operating depends on the proper and efficient functioning of computer and data-processing systems. Since computer and data-processing systems are susceptible to malfunctions and interruptions, including those due to equipment damage, power outages, cyber-attacks and a range of other hardware, software and network problems, we cannot guarantee that our data centers will not experience such malfunctions or interruptions in the future. Additionally, expansions and developments in the products and services that we offer, including our Cloud and Managed Services, could increasingly add a measure of complexity that may overburden our data center, network resources and human capital, making service interruptions and failures more likely. A significant or large-scale malfunction or interruption of one or more of any of our data centers' computer or data-processing systems could adversely affect our ability to keep such data centers running efficiently. If a malfunction results in a wider or sustained disruption to business at a property, it could have a material adverse effect on us.

Interruptions in our provision of products or services could result in a loss of customers and damage our reputation, which could have a material adverse effect on us.

Our business and reputation could be adversely affected by any interruption or failure in the provision of products and services, even if such events occur as a result of a natural disaster, human error, landlord maintenance failure, water damage, fiber cuts, extreme temperature or humidity, sabotage, vandalism, terrorist acts, unauthorized entry or other unanticipated problems. If a significant disruption occurs, we may be unable to implement disaster recovery or security measures in a timely manner or, if and when implemented, these measures may not be sufficient or could be circumvented through the reoccurrence of a natural disaster or other unanticipated problem, or as a result of accidental or intentional actions. Furthermore, such disruptions can cause damage to servers and may result in legal liability where interruptions in service violate service commitments in customer leases. Resolving network failures or alleviating security problems also may require interruptions, delays, or cessation of service to our customers. Accordingly, failures

in our products and services, including problems at our data centers or network interruptions may result in significant liability, a loss of customers and damage to our reputation, which could have a material adverse effect on us.

Security breaches at our facilities or affecting our networks may result in disclosure of sensitive customer information that could harm our reputation and expose us to liability from customers and government agencies, and we may incur increasing or uncertain compliance and prevention costs, all of which could have a material adverse effect on us.

Our network could be subject to unauthorized access, computer viruses, cyber attacks or cyber intrusions and other disruptive problems, including malware, computer viruses and attachments to e-mails caused by customers, employees, or others inside or outside of our organization. Because a portion of our business focuses on serving U.S. government agencies and their contractors with a general focus on data security and information technology, we may be especially likely to be targeted by cyber attacks, including by organizations or persons that may be affiliated with nation-states or otherwise hostile to the U.S. government. Despite our activities to maintain the security and integrity of our networks and related systems, there can be no assurance that these activities will be effective. Unauthorized access, computer viruses or other disruptive problems could lead to interruptions, delays and cessation of service to our customers and the compromise or loss of our, our customers' or our customers' end-users' information. We routinely process, store and transmit large amounts of data for our customers, which includes sensitive and personally identifiable information. Loss or compromise of this data could cost us both monetarily and in terms of customer goodwill and lost business. Unauthorized access also potentially could jeopardize the security of our confidential information or confidential information of our customers or our customers' end-users, which might expose us to liability from customers and from the government agencies that regulate us or our customers, as well as harm our brand and deter potential customers from renting our space and purchasing our services. For example, violations of HIPAA and its implementing regulations, as amended by the HITECH Act, can lead to fines of up to \$1.5 million for identical violations of a particular provision in a calendar year, and under the GDPR, there can be fines of up to €10,000,000 or up to 2% of the global sales, whichever is greater, for certain comparatively minor offenses and up to €20,000,000 or up to 4% of the global sales, whichever is greater, for more serious offenses. Additionally, violations of privacy or cybersecurity laws (including the recently-passed CCPA), regulations or standards increasingly lead to class-action and other types of litigation, which can result in substantial monetary judgments or settlements. Therefore, any such security breaches could have a material adverse effect on us.

In addition, the regulatory framework around data custody, cybersecurity, data privacy and breaches varies by jurisdiction and is an evolving area of law. We cannot predict how future laws, regulations and standards, or future interpretations of current laws, regulations and standards, related to privacy and cybersecurity will affect our business, and we cannot predict the cost of compliance. Furthermore, we may be required to expend significant attention and financial resources to protect against physical or cybersecurity breaches that could result in the misappropriation of our or our customers' information. As techniques used to breach security change frequently, and generally are not recognized until launched against a target, we may not be able to implement security measures in a timely manner or, if and when implemented, we may not be able to determine the extent to which these measures could be circumvented. Any internal or external breach in our network could severely harm our business and result in costly litigation and potential liability for us. We also may be liable for, and suffer reputational harm if, any of our third-party service providers or subcontractors suffers security breaches. To the extent our customers demand that we accept unlimited liability and to the extent there is a competitive trend to accept it, such a trend could affect our ability to retain these limitations in our leases at the risk of losing the business. Such a trend may be particularly likely to occur with regard to our Cloud and Managed Services. These potential costs and liabilities could have a material adverse effect on us.

The loss of key personnel, including our executive officers, could have a material adverse effect on us.

Our continued success depends, to a significant extent, on the continued services of key personnel, particularly our executive officers, who have extensive market knowledge and long-standing business relationships. In particular, our reputation among and our relationships with our key customers are the direct result of a significant investment of time and effort by these individuals to build our credibility in a highly specialized industry. The loss of services of one or more key members of our executive management team could diminish our business and investment opportunities and our relationships with lenders, business partners and existing and prospective customers and could have a material adverse effect on us.

Any inability to recruit or retain qualified personnel, or maintain access to key third-party service providers and software developers, could have a material adverse effect on us.

We must continue to identify, hire, train, and retain IT professionals, technical engineers, operations employees, and sales and senior management personnel who maintain relationships with our customers and who can provide the technical, strategic and marketing skills required to grow our company, develop and expand our data centers, maximize our rental and services income and achieve the highest sustainable rent levels at each of our facilities. There is a shortage of qualified personnel in these fields, and we compete with other companies for the limited pool of these personnel. Competitive pressures may require that we enhance our pay and benefits package to compete effectively for such personnel. An increase in these costs or our inability to recruit and retain necessary technical, managerial, sales and marketing personnel or to maintain access to key third-party providers could have a material adverse effect on us. For example, for certain products, we partner or collaborate with third parties such as software developers. Our failure to maintain such relationships could impact our ability to provide certain services, in particular, government-related services, which could have a material adverse effect on us.

We may be unable to identify and complete acquisitions on favorable terms or at all, which may inhibit our growth and have a material adverse effect on us.

We continually evaluate the market of available properties and businesses and may acquire additional properties and businesses when opportunities exist. Our ability to acquire properties and businesses on favorable terms is subject to the following significant risks:

- we may be unable to acquire a desired property or business because of competition from other real estate investors with significant resources and/or access to capital, including both publicly traded REITs and institutional investment funds;
- even if we are able to acquire a desired property or business, competition from other potential acquirers may significantly increase the purchase price or result in other less favorable terms;
- even if we enter into agreements for the acquisition of a desired property or business, these agreements are subject to customary conditions to closing, including completion of due diligence investigations to our satisfaction, and we may incur significant expenses for properties or businesses we never actually acquire;
- we may be unable to finance acquisitions on favorable terms or at all; and
- we may acquire properties subject to liabilities and without any recourse, or with only limited recourse, with
 respect to such liabilities such as liabilities for clean-up of environmental contamination, claims by customers,
 vendors or other persons dealing with the former owners of the properties and claims for indemnification by
 general partners, directors, officers and others indemnified by the former owners of the properties.

Any inability to complete property or business acquisitions on favorable terms or at all could have a material adverse effect on us.

We may be unable to successfully integrate and operate acquired properties and achieve the intended benefits of our other acquisitions, which could have a material adverse effect on us.

Even if we are able to make acquisitions on favorable terms, our ability to successfully integrate and operate them is subject to various risks. We may be unable to accomplish the integration of an acquired property smoothly, successfully or within anticipated cost estimates. The diversion of our management's attention from our operations to any such integration efforts, and any difficulties encountered, could prevent us from realizing the full benefits we anticipated to result from such acquisition and could have a material adverse effect on us. Additional risks include, among others:

- we may spend more than budgeted amounts to make necessary improvements or renovations to acquired properties, as well as require substantial management time and attention;
- the inability to successfully integrate the operations, particularly acquisitions of operating businesses or portfolios of properties, into our existing operations, maintain consistent standards, controls, policies and procedures, or realize the benefits we anticipate of the acquisition within the anticipated timeframe or at all;
- the inability to effectively monitor and manage our expanded business, retain customers, suppliers and business partners, attract new customers, retain key employees or attract highly qualified new employees;
- anticipated future synergies, accretion, revenues, cost savings or operating metrics may fail to materialize or our estimates thereof may prove to be inaccurate;

- the acquired business may fail to perform as expected;
- certain portions of businesses we may acquire may be located in new markets, including foreign markets, in which we have not previously operated and in which we may face risks associated with an incomplete knowledge or understanding of the local market;
- the market price of our common stock may decline if we do not achieve the benefits we anticipate of the transaction as rapidly or to the extent anticipated by financial or industry analysts or if the effect of the transaction on our financial results is not consistent with the expectations of financial or industry analysts; and
- potential unknown liabilities with limited or no recourse against the seller and unforeseen increased expenses related to the acquisitions.

We cannot assure you that we will be able to complete any integration without encountering difficulties or that any such difficulties will not have a material adverse effect on us. Failure to realize the intended benefits of an acquisition could have a material adverse effect on us.

We may be subject to unknown or contingent liabilities related to properties or businesses that we acquire, which may result in damages and investment losses.

Assets and entities that we have acquired or may acquire in the future may be subject to unknown or contingent liabilities for which we may have limited or no recourse against the sellers. Unknown or contingent liabilities might include liabilities for clean-up or remediation of environmental conditions, claims of customers, vendors or other persons dealing with the acquired entities, tax liabilities and other liabilities whether incurred in the ordinary course of business or otherwise. In the future we may enter into transactions with limited representations and warranties or with representations and warranties that do not survive the closing of the transactions, in which event we would have no or limited recourse against the sellers of such properties. While we usually require the sellers to indemnify us with respect to breaches of representations and warranties that survive, such indemnification is often limited and subject to various materiality thresholds, a significant deductible or an aggregate cap on losses. As a result, there is no guarantee that we will recover any amounts with respect to losses due to breaches by the sellers of their representations and warranties. In addition, the total amount of costs and expenses that we may incur with respect to liabilities associated with acquired properties and entities may exceed our expectations. Finally, indemnification agreements between us and the sellers typically provide that the sellers will retain certain specified liabilities relating to the assets and entities acquired by us. While the sellers are generally contractually obligated to pay all losses and other expenses relating to such retained liabilities, there can be no guarantee that such arrangements will not require us to incur losses or other expenses as well. Any of these matters could have a material adverse effect on us.

Our international operations expose us to regulatory, currency, legal, tax and other risks distinct from those faced by us in the U.S.

Although our operations are primarily based in the United States, we also have a presence outside of the United States. Foreign operations involve risks not generally associated with investments in the United States, including:

- our limited knowledge of and relationships with customers, contractors, suppliers or other parties in these markets;
- complexity and costs associated with managing international development and operations;
- difficulty in hiring qualified management, sales and other personnel and service providers;
- differing employment practices and labor issues;
- multiple, conflicting, changing and uncertain legal, regulatory, entitlement and permitting, and tax and treaty environments;
- rapid changes in governmental, economic and political policy, political or civil unrest, acts of terrorism or the threat of international boycotts or U.S. anti-boycott legislation;
- exposure to increased taxation, confiscation or expropriation and the risk of forced nationalization;
- currency transfer restrictions and limitations on our ability to distribute cash earned in foreign jurisdictions to the United States;
- difficulty in enforcing agreements in non-U.S. jurisdictions, including those entered into in connection with our acquisitions or in the event of a default by one or more of our customers, suppliers or contractors;
- compliance with anti-bribery and corruption laws;
- local business and cultural factors;

- political and economic instability, including sovereign credit risk, in certain geographic regions and;
- difficulties in complying with U.S. rules governing REITs while operating outside of the United States.

In addition, the GDPR, which took effect in May 2018, imposes new privacy requirements and increases the likelihood of applicability of European law to entities like us, which are established outside the EU but may process data of European data subjects. Also, while we have signed up to the EU-U.S. Privacy Shield Framework, which requires organizations operating in the United States to provide assurance that they are adhering to relevant European standards for data protection for such transfers, our self-certification under the EU-U.S. Privacy Shield Framework may not be sufficient to ensure compliance with GDPR. Legal challenges have been brought in European courts seeking to declare the Privacy Shield Framework invalid under European law as a mechanism to legitimize transfers of personal data from the EU to the United States, which could require us to implement alternative means to address European cross border data transfer requirement. To the extent we are not in compliance with the GDPR, the EU authorities may investigate or bring enforcement actions against us that may result in criminal and administrative sanctions. Such actions could have a material adverse effect on us and harm our reputation.

Our inability to overcome these risks could adversely affect our foreign operations and growth prospects and could have a material adverse effect on us.

Government regulation could have a material adverse effect on us.

Various laws and governmental regulations, both in the U.S. and abroad, governing internet related services, related communications services and information technologies remain largely unsettled, even in areas where there has been some legislative action. For example, the Federal Communications Commission recently repealed its network neutrality rules, and it is unclear what affect that may have on us, our customers or the carriers who provide connectivity to our data centers. We remain focused on whether and how existing and changing laws, such as those governing cybersecurity, data privacy and data security, intellectual property, libel, telecommunications services, consumer protection and taxation, apply to the internet and to related offerings such as ours, and substantial resources may be required to comply with regulations or bring any non-compliant business practices into compliance with such regulations. The adoption or modification of any such laws or regulations, or interpretations of existing laws, could have a material adverse effect on us.

We are exposed to ongoing litigation and other legal and regulatory actions, which may divert management's time and attention, require us to pay damages and expenses or restrict the operation of our business.

We are subject to the risk of legal claims and proceedings and regulatory enforcement actions in the ordinary course of our business and otherwise, and we could incur significant liabilities and substantial legal fees as a result of these actions. Our management may devote significant time and attention to the resolution (through litigation, settlement or otherwise) of these actions, which would detract from our management's ability to focus on our business. Any such resolution could involve payment of damages or expenses by us, which may be significant. In addition, any such resolution could involve our agreement to terms that restrict the operation of our business. The results of legal proceedings cannot be predicted with certainty. We cannot guarantee losses incurred in connection with any current or future legal or regulatory proceedings or actions will not exceed any provisions we may have set aside in respect of such proceedings or actions or will not exceed any available insurance coverage. The occurrence of any of these events could have a material adverse effect on us.

We may co-invest in joint ventures with third parties from time to time, and such investments could be adversely affected by the capital markets, lack of sole decision-making authority, reliance on joint venture partners' financial condition and any disputes that may arise between us and our joint venture partners.

On February 22, 2019, we entered into a joint venture with Alinda Capital Partners ("Alinda"), a premier infrastructure investment firm, with respect to our Manassas data center. At closing, we contributed cash and our Manassas data center (a 118,000 square foot hyperscale data center under development in Manassas, Virginia), and Alinda contributed cash, in each case in exchange for a 50% interest in the joint venture (which includes a 50% interest in future income). Under the joint venture agreement, we will serve as the venture's operating member, subject to authority and oversight of a board appointed by us and Alinda, and separately we will serve as manager and developer of the facility in exchange for management and development fees. The joint venture agreement includes various transfer restrictions and rights of first offer that will allow us to repurchase Alinda's interest should Alinda wish to exit in the future. In addition, we have

agreed to provide Alinda an opportunity to invest in future similar joint ventures based on similar terms and a comparable capitalization rate. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Factors That May Influence Future Results of Operations and Cash Flows—Joint Ventures."

In addition to this joint venture, we may in the future co-invest with third parties through partnerships, joint ventures or other structures in which we acquire noncontrolling interests in, or share responsibility for, managing the affairs of a property, partnership, co-tenancy or other entity. Even if we have general management authority over joint ventures, we expect that our joint venture partners would have customary approval rights over certain major decisions. We may not be in a position to exercise sole decision-making authority regarding any properties owned through joint ventures or similar ownership structures. In addition, investments in joint ventures may, under certain circumstances, involve risks not present when a third party is not involved, including potential deadlocks in making major decisions, restrictions on our ability to exit the joint venture, reliance on joint venture partners and the possibility that a joint venture partner might become bankrupt or fail to fund its share of required capital contributions, thus exposing us to liabilities in excess of our share of the joint venture or jeopardizing our REIT status. Furthermore, our joint venture partners may take actions that are not within our control that could jeopardize our REIT status. The funding of our capital contributions to such joint ventures may be dependent on proceeds from asset sales, credit facility advances or sales of equity securities. Joint venture partners may have business interests or goals that are inconsistent with our business interests or goals, and may be in a position to take actions contrary to our policies or objectives. We may, in specific circumstances, be liable for the actions of our joint venture partners. In addition, any disputes that may arise between us and joint venture partners may result in litigation or arbitration that would increase our expenses. Any of the foregoing may have a material adverse effect on our business, financial condition and results of operations.

Risks Related to Financing

An inability to access external sources of capital on favorable terms or at all could limit our ability to execute our business and growth strategies.

In order to qualify and maintain our qualification as a REIT, we are required under the Code to distribute at least 90% of our "REIT taxable income" (determined before the deduction for dividends paid and excluding net capital gains) annually. In addition, we will be subject to income tax at regular corporate rates to the extent that we distribute less than 100% of our "REIT taxable income," including any net capital gains. In addition, QTS will be subject to a 4% nondeductible excise tax on the amount, if any, by which distributions paid by us in any calendar year are less than the sum of 85% of our ordinary income, 95% of our capital gain net income and 100% of our undistributed income from prior years. Because of these distribution requirements, we may not be able to fund future capital needs, including capital for development projects and acquisition opportunities, from operating cash flow. Consequently, we intend to rely on third-party sources of capital to fund a substantial amount of our future capital needs. We may not be able to obtain such financing on favorable terms or at all. Any additional debt we incur will increase our leverage, expose us to the risk of default and impose operating restrictions on us. In addition, any equity financing could be materially dilutive to the equity interests held by our stockholders. Our access to third-party sources of capital depends, in part, on general market conditions, the market's perception of our growth potential, our leverage, our current and expected results of operations, liquidity, financial condition and cash distributions to stockholders and the market price of our common stock. If we cannot obtain capital when needed, we may not be able to execute our business and growth strategies (including redeveloping or acquiring properties when strategic opportunities exist), satisfy our debt service obligations, make the cash distributions to our stockholders necessary to qualify and maintain our qualification as a REIT (which would expose us to significant penalties and corporate level taxation), or fund our other business needs, which could have a material adverse effect on us.

Our indebtedness outstanding as of December 31, 2018 was approximately \$1,356.7 million, which exposes us to interest rate fluctuations and the risk of default thereunder, among other risks.

Our net indebtedness outstanding as of December 31, 2018 was approximately \$1,356.7 million. Approximately \$552.0 million of this indebtedness bears interest at a variable rate after taking into account \$400 million of swaps that were entered into in April 2017 and became effective January 2, 2018 effectively converting our floating rate debt into fixed rate debt. In addition, in December 2018 the Company entered into \$200 million of incremental swaps that will convert floating rate debt into fixed rate debt effective January 2, 2020. Increases in interest rates, or the loss of the benefits of our existing or future hedging agreements, would increase our interest expense, which would adversely affect our cash flow and our ability to service our debt. Our organizational documents contain no limitations regarding the maximum

level of indebtedness, as a percentage of our market capitalization or otherwise, that we may incur. We may incur significant additional indebtedness, including mortgage indebtedness, in the future. Our substantial outstanding indebtedness, and the limitations imposed on us by our debt agreements, could have other significant adverse consequences, including the following:

- our cash flow may be insufficient to meet our required principal and interest payments;
- we may use a substantial portion of our cash flows to make principal and interest payments and we may be
 unable to obtain additional financing as needed or on favorable terms, which could, among other things, have
 a material adverse effect on our ability to complete our development and redevelopment pipeline, capitalize
 upon acquisition opportunities, fund working capital, make capital expenditures, make cash distributions to
 our stockholders, or meet our other business needs;
- we may be unable to refinance our indebtedness at maturity or the refinancing terms may be less favorable than the terms of our original indebtedness;
- we may be forced to dispose of one or more of our properties, possibly on unfavorable terms or in violation of certain covenants to which we may be subject;
- we may be required to maintain certain debt and coverage and other financial ratios at specified levels, thereby reducing our financial flexibility;
- our vulnerability to general adverse economic and industry conditions may be increased;
- greater exposure to increases in interest rates for our variable rate debt and to higher interest expense on future fixed rate debt;
- we may be at a competitive disadvantage relative to our competitors that have less indebtedness;
- our flexibility in planning for, or reacting to, changes in our business and the markets in which we operate may be limited; and
- we may default on our indebtedness by failure to make required payments or violation of covenants, which
 would entitle holders of such indebtedness and possibly other indebtedness to accelerate the maturity of their
 indebtedness and, if such indebtedness is secured, to foreclose on our properties that secure their loans and
 receive an assignment of our rents and leases.

The occurrence of any one of these events could have a material adverse effect on us.

The agreements governing our existing indebtedness contain various covenants and other provisions which limit management's discretion in the operation of our business, reduce our operational flexibility and create default risks.

The agreements governing our existing indebtedness contain, and agreements governing our future indebtedness may contain, covenants and other provisions that impose significant restrictions on us and our subsidiaries. These covenants restrict, among other things, our and our subsidiaries' ability to:

- incur or guarantee additional indebtedness;
- pay dividends and make certain investments and other restricted payments;
- incur restrictions on the payment of dividends or other distributions from subsidiaries of the Operating Partnership;
- create or incur certain liens:
- transfer or sell certain assets:
- engage in certain transactions with affiliates; and
- merge or consolidate with other companies or transfer or sell all or substantially all of our assets.

These covenants may restrict our ability to engage in certain transactions that may be in our best interest.

Our unsecured credit facility and the indenture governing our 4.750% Senior Notes due 2025 (the "Senior Notes") also contain provisions that may limit QTS' ability to make distributions to its stockholders and the Operating Partnership's ability to make distributions to QTS. The unsecured credit facility generally provides that if a default occurs and is continuing, we will be precluded from making distributions on common stock and partnership interests, as applicable (other than those required to allow QTS to qualify and maintain its status as a REIT, so long as such default does not arise from a payment default or event of insolvency) and lenders under the unsecured credit facility and, potentially, other indebtedness, could accelerate the maturity of the related indebtedness. The indenture governing the Senior Notes contains provisions that restrict the Operating Partnership's ability to make distributions to QTS, except distributions

required to allow QTS to qualify and maintain its status as a REIT, so long as no event of default has occurred and is continuing.

These covenants could impair our ability to grow our business, take advantage of attractive business opportunities or successfully compete. In addition, failure to meet the covenants may result in an event of default under the applicable indebtedness, which could result in the acceleration of the applicable indebtedness and potentially other indebtedness, which could have a material adverse effect on us.

The documents that govern our outstanding indebtedness require that we maintain certain financial ratios and, if we fail to do so, we will be in default under the applicable debt instrument, which in turn could trigger defaults under our other debt instruments, which could result in the maturities of all of our debt obligations being accelerated.

Each of our significant debt instruments requires that we maintain certain financial ratios. Our unsecured credit facility provides that the outstanding principal balance of the loans and letter of credit liabilities under the unsecured credit facility cannot exceed the lesser of the \$1.52 billion total commitment or the unencumbered asset pool availability. In addition, the unsecured credit facility requires that we maintain, among other things, (i) a maximum leverage ratio of total indebtedness to gross asset value not in excess of 60% (or 65% for- one or more periods of up to four consecutive fiscal quarters immediately following a material acquisition for which the Operating Partnership has provided written notice to the administrative agent), (ii) a minimum fixed charge coverage ratio (defined as the ratio of consolidated EBITDA, subject to certain adjustments, to consolidated fixed charges) of not less than 1.50 to 1.00 and (iii) tangible net worth, as defined in the credit agreement, of at least \$1,567,000,000 plus 75% of the sum of net equity offering proceeds. In addition, the indenture that governs the Senior Notes requires the Operating Partnership and its Restricted Subsidiaries (as defined in the indenture that governs the Senior Notes) to maintain at all times total unencumbered assets of at least 150% of the aggregate principal amount of all of their outstanding unsecured indebtedness.

If we do not continue to satisfy these ratios or tests, we will be in default under the applicable debt instrument, which in turn may trigger defaults under our other debt instruments, which could result in the maturities of all of our debt obligations being accelerated. These events would have a material adverse effect on our liquidity.

Any hedging transactions involve costs and expose us to potential losses.

Hedging agreements enable us to convert floating rate liabilities to fixed rate liabilities or fixed rate liabilities to floating rate liabilities. Hedging transactions expose us to certain risks, including that losses on a hedge position may reduce the cash available for distribution to stockholders and such losses may exceed the amount invested in such instruments and that counterparties to such agreements could default on their obligations, which could increase our exposure to fluctuating interest rates.

In addition, we have used and may use interest rate swaps to hedge our exposure to interest rate fluctuations. For example, on April 5, 2017, we entered into forward interest rate swap agreements with an aggregate notional amount of \$400 million. The forward swap agreements effectively fix the interest rate on \$400 million of term loan borrowings, \$200 million of swaps allocated to each term loan, from January 2, 2018 through December 17, 2021 and April 27, 2022, respectively, at approximately 3.3% assuming the current LIBOR spread of 1.3%.

On December 20, 2018, we entered into additional forward interest rate swap agreements with an aggregate notional amount of \$400 million. The forward swap agreements effectively fix the interest rate on \$400 million of term loan borrowings, \$200 million of swaps allocated to each term loan, from December 17, 2021 and April 27, 2022 through the current maturity dates of the respective term loans which are December 17, 2023 and April 27, 2024, respectively. The weighted average effective fixed interest rate on the \$400 million notional amount of term loan financing following the execution of these swap agreements will approximate 3.9%, commencing on December 17, 2021 and April 27, 2022, assuming the current LIBOR spread of 1.3%. Additionally, the Company entered into forward interest rate swap agreements with an aggregate notional amount of \$200 million. The forward swap agreements effectively fix the interest rate on \$200 million of additional term loan borrowings, \$100 million of swaps allocated to each term loan, from January 2, 2020 through the current maturity dates of the respective term loans which are December 17, 2023 and April 27, 2024, respectively. The weighted average effective fixed interest rate on the \$200 million notional amount of term loan financing, following the execution of these swap agreements, will approximate 3.9%, commencing on January 2, 2020, assuming the current LIBOR spread of 1.3%. We may use interest rate swaps or other forms of hedging again in the future.

The REIT rules impose certain restrictions on our ability to utilize hedges, swaps and other types of derivatives to hedge our liabilities. We may use hedging instruments in our risk management strategy to limit the effects of changes in interest rates on our operations. However, future hedges may be ineffective in eliminating all of the risks inherent in any particular position due to the fact that, among other things, the duration of the hedge may not match the duration of the related liability, the credit quality of the hedging counterparty owing money on the hedge may be downgraded to such an extent that it impairs our ability to sell or assign our side of the hedging transaction and the hedging counterparty owing money in the hedging transaction may default on its obligation to pay. The use of derivatives could have a material adverse effect on us.

We may be adversely affected by changes in LIBOR reporting practices, the method in which LIBOR is determined or the use of alternative reference rates.

As of December 31, 2018, we had approximately \$952 million of debt outstanding that was indexed to the London Interbank Offered Rate ("LIBOR"). In July 2017, the United Kingdom regulator that regulates LIBOR announced its intention to phase out LIBOR rates by the end of 2021. It is impossible to predict the further effect of this announcement, any changes in the methods by which LIBOR is determined or other reforms to LIBOR that may be enacted. In April 2018, the New York Federal Reserve commenced publishing an alternative reference rate, the Secured Overnight Financing Rate ("SOFR"), proposed by a group of major market participants (the Alternative Reference Rates Committee ("ARRC")), convened by the U.S. Federal Reserve with participation by SEC Staff and other regulators. SOFR is based on transactions in the more robust U.S. Treasury repurchase market and has been proposed as the alternative to LIBOR for use in derivatives and other financial contracts that currently rely on LIBOR as a reference rate. ARRC has proposed a paced market transition plan to SOFR from LIBOR and organizations are currently working on industry-wide and company-specific transition plans as it relates to derivatives and cash markets exposed to LIBOR. At this time, no consensus exists as to what rate or rates may become accepted alternatives to LIBOR, and it is impossible to predict whether and to what extent banks will continue to provide LIBOR submissions to the administrator of LIBOR, whether LIBOR rates will cease to be published or supported before or after 2021 or whether additional reforms to LIBOR may be enacted. Such developments and any other legal or regulatory changes in the method by which LIBOR is determined or the transition from LIBOR to a successor benchmark may result in, among other things, a sudden or prolonged increase or decrease in LIBOR, a delay in the publication of LIBOR, and changes in the rules or methodologies of LIBOR, which may discourage market participants from continuing to administer or to participate in LIBOR's determination and, in certain situations, could result in LIBOR no longer being determined and published. If a published U.S. dollar LIBOR rate is unavailable after 2021, the interest rates on our debt which is indexed to LIBOR will be determined using various alternative methods, any of which may result in interest obligations which are more than or do not otherwise correlate over time with the payments that would have been made on such debt if U.S. dollar LIBOR was available in its current form. Further, the same costs and risks that may lead to the unavailability of U.S. dollar LIBOR may make one or more of the alternative methods impossible or impracticable to determine. Any of these proposals or consequences could have a material adverse effect on our financing costs, and consequently, on our financial condition, operating results and cash flows.

Risks Related to the Real Estate Industry

The operating performance and value of our properties are subject to risks associated with the real estate industry.

As a real estate company, we are subject to all of the risks associated with owning and operating real estate, including:

- adverse changes in international, national or local economic and demographic conditions;
- vacancies or our inability to rent space on favorable terms, including possible market pressures to offer customers rent abatements, customer improvements, early termination rights or below-market renewal options;
- adverse changes in the financial condition or liquidity of buyers, sellers and customers (including their ability to pay rent to us) of properties, including data centers;
- the attractiveness of our properties to customers;
- competition from other real estate investors with significant resources and assets to capital, including other real estate operating companies, publicly traded REITs and institutional investment funds;
- reductions in the level of demand for data center space;
- increases in the supply of data center space;

- fluctuations in interest rates, which could have a material adverse effect on our ability, or the ability of buyers and customers of properties, including data centers, to obtain financing on favorable terms or at all;
- increases in expenses that are not paid for by or cannot be passed on to our customers, such as the cost of complying with laws, regulations and governmental policies;
- the relative illiquidity of real estate investments, especially the specialized real estate properties that we hold and seek to acquire and develop;
- changes in, and changes in enforcement of, laws, regulations and governmental policies, including, without limitation, health, safety, environmental, zoning and tax laws, and governmental fiscal policies;
- property restrictions and/or operational requirements pursuant to restrictive covenants, reciprocal easement agreements, operating agreements or historical landmark designations; and
- civil unrest, acts of war, terrorist attacks and natural disasters, including earthquakes, tornados, hurricanes and floods, which may result in uninsured and underinsured losses.

In addition, periods of economic slowdown or recession, rising interest rates or declining demand for real estate, or the public perception that any of these events may occur, could result in a general decline in occupancy and rental sales, and therefore revenues, or an increased incidence of defaults under existing leases. Accordingly, we cannot assure you that we will be able to execute our business and growth strategies. Any inability to operate our properties to meet our financial, operational and strategic expectations could have a material adverse effect on us.

The illiquidity of real estate investments could significantly impede our ability to respond to adverse changes in economic, financial, investment and other conditions.

Because real estate investments are relatively illiquid, our ability to promptly sell one or more properties in our portfolio in response to changing economic, financial, investment or other conditions is limited. The real estate market is affected by many factors that are beyond our control, including those described above. In particular, data centers represent a particularly illiquid part of the overall real estate market. This illiquidity is driven by a number of factors, including the relatively small number of potential purchasers of such data centers—including other data center operators and large corporate users—and the relatively high cost per square foot to develop data centers, which substantially limits a potential buyer's ability to purchase a data center property with the intention of redeveloping it for an alternative use, such as an office building, or may substantially reduce the price buyers are willing to pay. Our inability to dispose of properties at opportune times or on favorable terms could have a material adverse effect on us.

In addition, the Code imposes restrictions on a REIT's ability to dispose of properties that are not applicable to other types of real estate companies. In particular, the tax laws applicable to REITs require that we hold our properties for investment, rather than primarily for sale in the ordinary course of business, which may cause us to forego or defer sales of properties that otherwise would be in our best interest. Therefore, we may not be able to vary our portfolio in response to economic, financial, investment or other conditions promptly or on favorable terms, which could have a material adverse effect on us.

Declining real estate valuations could result in impairment charges, the determination of which involves a significant amount of judgment on our part. Any impairment charge could have a material adverse effect on us.

We review our properties for impairment on a quarterly and annual basis and whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. Indicators of impairment include, but are not limited to, a sustained significant decrease in the market price of or the cash flows expected to be derived from a property. A significant amount of judgment is involved in determining the presence of an indicator of impairment. If the total of the expected undiscounted future cash flows is less than the carrying amount of a property on our balance sheet, a loss is recognized for the difference between the fair value and carrying value of the property. The evaluation of anticipated cash flows requires a significant amount of judgment regarding assumptions that could differ materially from actual results in future periods, including assumptions regarding future occupancy, rental rates and capital requirements. Any impairment charge could have a material adverse effect on us.

Increased tax rates and reassessments could significantly increase our property taxes and have a material adverse effect on us.

Each of our properties is subject to real and personal property taxes. These taxes may increase as tax rates change and as the properties are assessed or reassessed by taxing authorities. It is likely that the properties will be reassessed by taxing

authorities as a result of (i) the acquisition of the properties by us and (ii) the informational returns that we must file in connection with the formation transactions in connection with QTS' initial public offering. Any increase in property taxes on the properties could have a material adverse effect on us.

If California changes its property tax scheme, our California properties could be subject to significantly higher tax levies.

Owners of California property are subject to particularly high property taxes. Voters in the State of California previously passed Proposition 13, which generally limits annual real estate tax increases to 2% of assessed value per annum. From time to time, various groups have proposed repealing Proposition 13, or providing for modifications such as a "split roll tax," whereby commercial property, for example, would be taxed at a higher rate than residential property. Given the uncertainty, it is not possible to quantify the risk to us of a tax increase or the resulting impact on us of any increase, but any tax increase could be significant at our California properties.

Uninsured and underinsured losses could have a material adverse effect on us.

We carry comprehensive liability, fire, extended coverage, earthquake, business interruption and rental loss insurance with respect to our properties, as well as cybersecurity insurance, and we plan to obtain similar coverage for properties we acquire in the future. However, certain types of losses, generally of a catastrophic nature, such as earthquakes and floods, may be either uninsurable or not economically insurable. Should a property sustain damage, we may incur losses due to insurance deductibles, to co-payments on insured losses or to uninsured losses. In the event of a substantial property loss, the insurance coverage may not be sufficient to pay the full current market value or current replacement cost of the property. Inflation, changes in building codes and ordinances, environmental considerations, and other factors also might make it infeasible to use insurance proceeds to replace a property after it has been damaged or destroyed. Under such circumstances, the insurance proceeds we receive might not be adequate to restore our economic position with respect to such property. Lenders may require such insurance and our failure to obtain such insurance may constitute default under loan agreements, which could have a material adverse effect on us. Finally, a disruption in the financial markets may make it more difficult to evaluate the stability, net assets and capitalization of insurance companies and any insurer's ability to meet its claim payment obligations. A failure of an insurance company to make payments to us upon an event of loss covered by an insurance policy could have a material adverse effect on us. In the event of an uninsured or partially insured loss, we could lose some or all of our capital investment, cash flow and revenues related to one or more properties, which could also have a material adverse effect on us.

As the current or former owner or operator of real property, we could become subject to liability for environmental contamination, regardless of whether we caused such contamination, which could have a material adverse effect on us.

Under various federal, state and local statutes, regulations and ordinances relating to the protection of the environment, a current or former owner or operator of real property may be liable for the cost to remove or remediate contamination resulting from the presence or discharge of hazardous substances, wastes or petroleum products on, under, from or in such property. These costs could be substantial, liability under these laws may attach without regard to whether the owner or operator knew of, or was responsible for, the presence of the contaminants, and the liability may be joint and several. Most of our properties presently contain large underground or above ground fuel storage tanks used to fuel generators for emergency power, which is critical to our operations. If any of the tanks that we own or operate releases fuel to the environment, we would likely have to pay to clean up the contamination. In addition, prior owners and operators used some of our current properties for industrial and commercial purposes, which could have resulted in environmental contamination, including our Irving and Richmond data center properties, which were previously used as semiconductor plants. Moreover, the presence of contamination or the failure to remediate contamination at our properties may (1) expose us to third-party liability (e.g., for cleanup costs, bodily injury or property damage), (2) subject our properties to liens in favor of the government for damages and costs the government incurs in connection with the contamination, (3) impose restrictions on the manner in which a property may be used or businesses may be operated, or (4) materially adversely affect our ability to sell, lease or develop the real estate or to borrow using the real estate as collateral. In addition, there may be material environmental liabilities at our properties of which we are not aware. We also may be liable for the costs of remediating contamination at off-site facilities at which we have arranged, or will arrange, for disposal or treatment of our hazardous substances without regard to whether we complied or will comply with environmental laws in doing so. Any of these matters could have a material adverse effect on us.

We could become subject to liability for failure to comply with environmental, health and safety requirements or zoning laws, which could cause us to incur additional expenses.

Our properties are subject to federal, state and local environmental, health and safety laws and regulations and zoning requirements, including those regarding the handling of regulated substances and wastes, emissions to the environment and fire codes. For instance, our properties are subject to regulations regarding the storage of petroleum for auxiliary or emergency power and air emissions arising from the use of power generators. In particular, generators at our data center facilities are subject to strict emissions limitations, which could preclude us from using critical back-up systems and lead to significant business disruptions at such facilities and loss of our reputation. If we exceed these emissions limits, we may be exposed to fines and/or other penalties. In addition, we lease some of our properties to our customers who also are subject to such environmental, health and safety laws and zoning requirements. If we, or our customers, fail to comply with these various laws and requirements, we might incur costs and liabilities, including governmental fines and penalties. Moreover, we do not know whether existing laws and requirements will change or, if they do, whether future laws and requirements will require us to make significant unanticipated expenditures that could have a material adverse effect on us. Environmental noncompliance liability also could affect a customer's ability to make rental payments to us.

We could become subject to liability for asbestos-containing building materials in the buildings on our property, which could cause us to incur additional expenses.

Some of our properties may contain, or may have contained, asbestos-containing building materials. Environmental, health and safety laws require that owners or operators of or employers in buildings with asbestos-containing materials ("ACM") properly manage and maintain these materials, adequately inform or train those who may come into contact with ACM and undertake special precautions, including removal or other abatement, in the event that ACM is disturbed during building maintenance, renovation or demolition. These laws may impose fines and penalties on employers, building owners or operators for failure to comply with these laws. In addition, third parties may seek recovery from employers, owners or operators for personal injury associated with exposure to asbestos. If we become subject to any of these penalties or other liabilities as a result of ACM at one or more of our properties, it could have a material adverse effect on us.

Our properties may contain or develop harmful mold or suffer from other adverse conditions, which could lead to liability for adverse health effects and costs of remediation.

When excessive moisture accumulates in buildings or on building materials, mold growth may occur, particularly if the moisture problem remains undiscovered or is not addressed over a period of time. Some molds may produce airborne toxins or irritants. Indoor air quality issues also can stem from inadequate ventilation, chemical contamination from indoor or outdoor sources and other biological contaminants such as pollen, viruses and bacteria. Indoor exposure to airborne toxins or irritants above certain levels can be alleged to cause a variety of adverse health effects and symptoms, including allergic or other reactions. As a result, the presence of significant mold or other airborne contaminants at any of our properties could require us to undertake a costly remediation program to contain or remove the mold or other airborne contaminants from the affected property or increase indoor ventilation. In addition, the presence of significant mold or other airborne contaminants could expose us to liability from our customers, employees of our customers and others if property damage or personal injury occurs. Thus, conditions related to mold or other airborne contaminants could have a material adverse effect on us.

Laws, regulations or other issues related to climate change could have a material adverse effect on us.

If we, or other companies with which we do business, particularly utilities that provide our facilities with electricity, become subject to laws or regulations related to climate change, it could have a material adverse effect on us. The United States may enact new laws, regulations and interpretations relating to climate change, including potential cap-and-trade systems, carbon taxes and other requirements relating to reduction of carbon footprints and/or greenhouse gas emissions. Other countries have enacted climate change laws and regulations and the United States has been involved in discussions regarding international climate change treaties. The federal government and some of the states and localities in which we operate have enacted certain climate change laws and regulations and/or have begun regulating carbon footprints and greenhouse gas emissions. Although these laws and regulations have not had any known material adverse effect on us to date, they could limit our ability to develop new facilities or result in substantial costs, including compliance costs, retrofit costs and construction costs, monitoring and reporting costs and capital expenditures for environmental control facilities and other new equipment. In addition, these laws and regulations could lead to increased costs for the

electricity that we require to conduct our operations. Furthermore, our reputation could be damaged if we violate climate change laws or regulations. We cannot predict how future laws and regulations, or future interpretations of current laws and regulations, related to climate change will affect our business, results of operations, liquidity and financial condition. Lastly, the potential physical impacts of climate change on our operations are highly uncertain, and would be particular to the geographic circumstances in areas in which we operate. These may include changes in rainfall and storm patterns and intensities, water shortages, changing sea levels and changing temperatures. Any of these matters could have a material adverse effect on us.

We may incur significant costs complying with various federal, state and local regulations, which could have a material adverse effect on us.

The properties in our portfolio are subject to various federal, state and local laws, including the Americans with Disabilities Act ("ADA") as well as state and local fire and life safety requirements. Under the ADA, all places of public accommodation and commercial facilities must meet federal requirements related to access and use by disabled persons. A number of additional federal, state and local regulations may also require modifications to our properties, or restrict our ability to renovate our properties. If we fail to comply with these various requirements, we might incur governmental fines or private damage awards. We cannot predict the ultimate amount of the cost of compliance with the ADA or other legislation. In addition, we do not know whether existing requirements will change, or if they do, whether future requirements will require us to make significant unanticipated expenditures that could have a material adverse effect on

Risks Related to Our Organizational Structure

As of December 31, 2018, Chad L. Williams, our Chairman and Chief Executive Officer, owned approximately 11.3% of QTS' outstanding common stock on a fully diluted basis and has the ability to exercise significant influence on the company and any matter presented to its stockholders.

As of December 31, 2018, Chad L. Williams, our Chairman, President and Chief Executive Officer owned approximately 11.3% of QTS' outstanding common stock on a fully diluted basis. Mr. Williams has a significant vote in matters submitted to a vote of stockholders as a result of his ownership of Class B common stock, which gives him voting power equal to his economic interest in QTS as if he had exchanged all of his OP units for shares of Class A common stock, including in the election of directors. No other stockholder is permitted to own more than 7.5% of the aggregate of the outstanding shares of its common stock, except for certain designated investment entities that may own up to 9.8% of the aggregate of the outstanding shares of its common stock, subject to certain conditions, and except as approved by the board of directors pursuant to the terms of QTS' charter. Consequently, Mr. Williams may be able to significantly influence the outcome of matters submitted for stockholder action, including the election of the board of directors and approval of significant corporate transactions, such as business combinations, consolidations and mergers, as well as the determination of its day-to-day business decisions and management policies. As a result, Mr. Williams could exercise his influence on QTS in a manner that conflicts with the interests of other stockholders. Mr. Williams may have interests that differ from other stockholders, including by reason of his remaining interest in the Operating Partnership, and may accordingly vote in ways that may not be consistent with the interests of holders of Class A common stock. Moreover, if Mr. Williams were to sell, or otherwise transfer, all or a large percentage of his holdings, the market price of QTS' common stock could decline and QTS could find it difficult to raise the capital necessary for it to execute its business and growth strategies.

The tax protection agreement, during its term, could limit our ability to sell or otherwise dispose of certain properties and may require the Operating Partnership to maintain certain debt levels and agree to certain terms with lenders that otherwise would not be required to operate our business.

In connection with the IPO, we entered into a tax protection agreement with Chad L. Williams, our Chairman and Chief Executive Officer, and his affiliates and family members who own OP units that provides that if (1) we sell, exchange, transfer, convey or otherwise dispose of our Atlanta-Metro, Atlanta-Suwanee or Santa Clara data centers in a taxable transaction prior to January 1, 2026, referred to as the protected period, (2) cause or permit any transaction that results in the disposition by Mr. Williams or his affiliates and family members who own OP units of all or any portion of their interests in the Operating Partnership in a taxable transaction during the protected period or (3) fail prior to the expiration of the protected period to maintain approximately \$175 million of indebtedness that would be allocable to Mr. Williams and his affiliates for tax purposes or, alternatively, fail to offer Mr. Williams and his affiliates and family

members who own OP units the opportunity to guarantee specific types of the Operating Partnership's indebtedness in order to enable them to continue to defer certain tax liabilities, we will indemnify Mr. Williams and his affiliates and family members who own OP units against certain resulting tax liabilities. Therefore, although it may be in our stockholders' best interests that we sell, transfer, convey or otherwise dispose of one of these properties, it may be economically prohibitive for us to do so during the protected period because of these indemnity obligations. Moreover, these obligations may require us to maintain more or different indebtedness or agree to terms with our lenders that we would not otherwise agree to. As a result, the tax protection agreement will, during its term, restrict our ability to take actions or make decisions that otherwise would be in our best interests. As of December 31, 2018, our Atlanta-Metro, Atlanta-Suwanee and Santa Clara data centers represented approximately 47% of our annualized rent.

QTS' charter and Maryland law contain provisions that may delay, defer or prevent a change in control of our company, even if such a change in control may be in your interest, and as a result may depress our common stock price.

The stock ownership limits imposed by the Code for REITs and imposed by QTS' charter may restrict our business combination opportunities that might involve a premium price for shares of our common stock or otherwise be in the best interest of our stockholders.

In order for QTS to maintain its qualification as a REIT under the Code, not more than 50% in value of our outstanding stock may be owned, directly or indirectly, by five or fewer individuals (defined in the Code to include certain entities) at any time during the last half of each taxable year. QTS' charter, with certain exceptions, authorizes our board of directors to take the actions that are necessary and desirable to preserve our qualification as a REIT. Unless exempted by our board of directors, no person may actually or constructively own more than 7.5% of the aggregate of the outstanding shares of our common stock by value or by number of shares, whichever is more restrictive, or 7.5% of the aggregate of the outstanding shares of our preferred stock by value or by number of shares, whichever is more restrictive. However, certain entities that are defined as designated investment entities in our charter are permitted to own up to 9.8% of the aggregate of the outstanding shares of our common stock or preferred stock, so long as each beneficial owner of the shares owned by such designated investment entity would satisfy the 7.5% ownership limit if those beneficial owners owned directly their proportionate share of the common stock owned by the designated investment entity.

In addition, QTS' charter provides an excepted holder limit that allows Chad L. Williams, his family members and entities owned by or for the benefit of them, and any person who is or would be a beneficial owner or constructive owner of shares of our common stock as a result of the beneficial ownership or constructive ownership of shares of our common stock by Chad L. Williams, his family members and certain entities controlled by them, as a group, to own more than 7.5% of the aggregate of the outstanding shares of our common stock, so long as, under the applicable tax attribution rules, no one such excepted holder treated as an individual would hold more than 19.8% of the aggregate of the outstanding shares of our common stock, no two such excepted holders treated as individuals would own more than 27.3% of the aggregate of the outstanding shares of our common stock, no three such excepted holders treated as individuals would own more than 34.8% of the aggregate of the outstanding shares of our common stock, no four such excepted holders treated as individuals would own more than 42.3% of the aggregate of the outstanding shares of our common stock and no five such excepted holders treated as individuals would own more than 49.8% of the aggregate of the outstanding shares of our common stock. Currently, Chad L. Williams would be attributed all of the shares of common stock owned by each such other excepted holder and, accordingly, the Williams excepted holders as a group would not be allowed to own in excess of 19.8% of the aggregate of the outstanding shares of our common stock. Our board of directors may, in its sole discretion, grant other exemptions to the stock ownership limits, subject to such conditions and the receipt by our board of directors of certain representations and undertakings.

In addition to these ownership limits, our charter also prohibits any person from (a) beneficially or constructively owning, as determined by applying certain attribution rules of the Code, our stock that would result in us being "closely held" under Section 856(h) of the Code or that would otherwise cause us to fail to qualify as a REIT, (b) transferring stock if such transfer would result in our stock being owned by fewer than 100 persons, (c) beneficially or constructively owning shares of our capital stock that would result in us owning (directly or indirectly) an interest in a tenant if the income derived by us from that tenant for our taxable year during which such determination is being made would reasonably be expected to equal or exceed the lesser of one percent of our gross income or an amount that would cause us to fail to satisfy any of the REIT gross income requirements and (d) beneficially or constructively owning shares of our capital stock that would cause us otherwise to fail to qualify as a REIT. The ownership limits imposed under the Code are based upon direct or indirect ownership by "individuals," but only during the last half of a tax year. The

ownership limits contained in our charter key off of the ownership at any time by any "person," which term includes entities. These ownership limitations in our charter are common in REIT charters and are intended to provide added assurance of compliance with the tax law requirements, and to minimize administrative burdens. However, the ownership limits on our common stock also might delay, defer or prevent a transaction or a change in control of our company that might involve a premium price for shares of our common stock or otherwise be in the best interest of our stockholders.

Our authorized but unissued shares of common and preferred stock may prevent a change in control of our Company that might involve a premium price for shares of our common stock or otherwise be in the best interest of our stockholders.

QTS' charter authorizes QTS to issue additional shares of common and preferred stock. In addition, our board of directors may, without stockholder approval, amend QTS' charter to increase the aggregate number of shares of our common stock or the number of shares of stock of any class or series that we have authority to issue and classify or reclassify any unissued shares of common or preferred stock and set the preferences, rights and other terms of the classified or reclassified shares; provided that our board of directors may not amend QTS' charter to increase the aggregate number of shares of Class B common stock that we have the authority to issue or reclassify any shares of our capital stock as Class B common stock without stockholder approval. In 2018, OTS issued 4,280,000 shares of 7,125% Series A Cumulative Redeemable Perpetual Preferred Stock ("Series A Preferred Stock") and 3,162,500 shares of 6.50% Series B Cumulative Convertible Perpetual Preferred Stock ("Series B Preferred Stock"). As a result, the Series A Preferred Stock and Series B Preferred Stock, and the ability our board of directors to establish additional series of shares of common or preferred stock, could delay, defer or prevent a transaction or a change in control of our company that might involve a premium price for shares of our common stock or otherwise be in the best interest of our stockholders. In addition, our Series A Preferred Stock and Series B Preferred Stock rank, and any other Preferred Stock that we may issue would rank, senior to our common stock with respect to the payment of distributions and other amounts (including upon liquidation), in which case we could not pay any distributions on our common stock until full distributions have been paid with respect to such preferred stock.

Certain provisions of Maryland law could inhibit a change in control of our Company.

Certain provisions of the Maryland General Corporation Law (or MGCL) may have the effect of inhibiting a third party from making a proposal to acquire us or of impeding a change in control under circumstances that otherwise could provide the holders of shares of our common stock with the opportunity to realize a premium over the then-prevailing market price of such shares, including:

- "business combination" provisions that, subject to limitations, prohibit certain business combinations between us and an "interested stockholder" (defined generally as any person who beneficially owns 10% or more of our then outstanding voting power of our shares or an affiliate or associate of ours who, at any time within the two-year period prior to the date in question, was the beneficial owner of 10% or more of our then outstanding voting shares) or an affiliate thereof for five years after the most recent date on which the stockholder becomes an interested stockholder, and thereafter imposes special appraisal rights and special stockholder voting requirements on these combinations; and
- "control share" provisions that provide that "control shares" of our company (defined as shares which, when aggregated with other shares controlled by the stockholder, entitle the stockholder to exercise one of three increasing ranges of voting power in electing directors) acquired in a "control share acquisition" (defined as the direct or indirect acquisition of ownership or control of "control shares") have no voting rights except to the extent approved by our stockholders by the affirmative vote of at least two-thirds of all the votes entitled to be cast on the matter, excluding all interested shares.

QTS has opted out of these provisions of the MGCL, in the case of the business combination provisions of the MGCL by resolution of its board of directors, and in the case of the control share provisions of the MGCL by a provision in its bylaws. However, our board of directors may by resolution elect to opt in to the business combination provisions of the MGCL and it may, by amendment to its bylaws (which such amendment could be adopted by its board of directors in its sole discretion), opt in to the control share provisions of the MGCL in the future.

Certain provisions of the MGCL permit boards of directors of Maryland corporations, without stockholder approval and regardless of what is currently provided in their charter or bylaws, to adopt certain provisions that may have the effect of

limiting or precluding a third party from making an acquisition proposal for or of delaying, deferring or preventing a change in control of such companies under circumstances that otherwise could provide the holders of shares of our common stock with the opportunity to realize a premium over the then current market price. In September 2018, we filed articles supplementary with the State Department of Assessments and Taxation of Maryland electing to opt out of four provisions of Title 3, Subtitle 8 of the MGCL ("MUTA"), and our board of directors approved an amendment to our charter to opt out of that final provision relating to board vacancies. However, stockholder approval at the 2019 annual meeting of stockholders of QTS is needed to approve the amendment to our charter.

Certain provisions in the partnership agreement of the Operating Partnership may delay, defer or prevent unsolicited acquisitions of us or changes in our control.

Provisions in the partnership agreement of the Operating Partnership may delay, defer or prevent unsolicited acquisitions of us or changes in our control. These provisions include, among others:

- redemption rights of qualifying parties;
- a requirement that we may not be removed as the general partner of the Operating Partnership without our consent;
- transfer restrictions on our OP units;
- our inability, as general partner, in some cases, to amend the partnership agreement without the consent of the limited partners; and
- the right of the limited partners to consent to transfers of the general partnership interest and mergers under specified circumstances.

These provisions could discourage third parties from making proposals involving an unsolicited acquisition of us or change of our control, although some stockholders might consider such proposals, if made, desirable.

QTS' charter and bylaws, the partnership agreement of the Operating Partnership and Maryland law also contain other provisions that may delay, defer or prevent a transaction or a change in control of our company that might involve a premium price for our common stock or that our stockholders otherwise believe to be in their best interests.

Our Chairman and Chief Executive Officer has outside business interests that could require time and attention and may interfere with his ability to devote time to our business.

Chad L. Williams, our Chairman and Chief Executive Officer, has outside business interests that could require his time and attention. These interests include the ownership of our Overland Park, Kansas facility, at which our corporate headquarters is also located (which is leased to us), and certain office and other properties and certain other non-real estate business ventures, provided that he will be permitted to engage in other specified activities. Mr. Williams' employment agreement requires that he devote substantially all of his business time to our company. Mr. Williams also may have fiduciary obligations associated with these business interests that interfere with his ability to devote time to our business and that could have a material adverse effect on us.

If we fail to maintain an effective system of integrated internal controls, we may not be able to accurately and timely report our financial results.

An inability to maintain effective disclosure controls and procedures and internal control over financial reporting could adversely affect our results of operation, could cause us to fail to meet our reporting obligations under the Exchange Act on a timely basis or could result in material misstatements or omissions in our Exchange Act reports (including our financial statements), any of which, as well as the perception thereof, could cause investors to lose confidence in the company and could have a material adverse effect on us and cause the market price of our common stock to decline significantly.

Conflicts of interest exist or could arise in the future with holders of OP units, which may impede business decisions that could benefit our stockholders.

Conflicts of interest exist or could arise in the future as a result of the relationships between QTS and its affiliates, on the one hand, and the Operating Partnership or any partner thereof, on the other. Our directors and officers have duties to QTS and its stockholders under applicable Maryland law in connection with their management of our company. At the

same time, we, as general partner, have fiduciary duties to the Operating Partnership and to its limited partners under Delaware law in connection with the management of the Operating Partnership. QTS' duties as general partner to the Operating Partnership and its partners may come into conflict with the duties of our directors and officers to our company and our stockholders. These conflicts may be resolved in a manner that is not in the best interest of stockholders.

Additionally, the partnership agreement expressly limits our liability by providing that QTS and its officers, directors, agents and employees will not be liable or accountable to the Operating Partnership for losses sustained, liabilities incurred or benefits not derived if we or such officer, director, agent or employee acted in good faith. In addition, the Operating Partnership is required to indemnify QTS, and its officers, directors, agents, employees and designees to the extent permitted by applicable law from and against any and all claims arising from operations of the Operating Partnership, unless it is established that (1) the act or omission was committed in bad faith, was fraudulent or was the result of active and deliberate dishonesty, (2) the indemnified party received an improper personal benefit in money, property or services or (3) in the case of a criminal proceeding, the indemnified person had reasonable cause to believe that the act or omission was unlawful. The provisions of Delaware law that allow the fiduciary duties of a general partner to be modified by a partnership agreement have not been resolved in a court of law, and we have not obtained an opinion of counsel covering the provisions set forth in the partnership agreement that purport to waive or restrict our fiduciary duties that would be in effect were it not for the partnership agreement.

Our rights and the rights of our stockholders to take action against our directors and officers are limited, which could limit our stockholders' recourse in the event of actions not in our stockholders' best interests.

Under Maryland law generally, a director is required to perform his or her duties in good faith, in a manner he or she reasonably believes to be in the best interests of our company and with the care that an ordinarily prudent person in a like position would use under similar circumstances. Under Maryland law, directors are presumed to have acted with this standard of care. In addition, our charter limits the liability of our directors and officers to us and our stockholders for money damages, except for liability resulting from:

- actual receipt of an improper benefit or profit in money, property or services; or
- active and deliberate dishonesty by the director or officer that was established by a final judgment as being material to the cause of action adjudicated.

QTS' charter obligates QTS to indemnify its directors and officers for actions taken by them in those capacities to the maximum extent permitted by Maryland law. QTS' bylaws require it to indemnify each director or officer, to the maximum extent permitted by Maryland law, in the defense of any proceeding to which he or she is made, or threatened to be made, a party by reason of his or her service to us. In addition, QTS may be obligated to advance the defense costs incurred by its directors and officers. As a result, QTS and its stockholders may have more limited rights against its directors and officers than might otherwise exist absent the current provisions in QTS' charter and bylaws or that might exist with other companies.

Our board of directors may change our policies and practices and enter into new lines of business without a vote of our stockholders, which limits your control of our policies and practices and could have a material adverse effect on us.

Our major policies, including our policies and practices with respect to investments, financing, growth and capitalization, are determined by our board of directors. Our board of directors may change these and other policies from time to time or enter into new lines of business, at any time, without the consent of our stockholders. Accordingly, our stockholders will have limited control over changes in our policies. These changes could result in our making investments and engaging in business activities that are different from, and possibly riskier than, the investments and business activities described in this Form 10-K. A change in our policies and procedures or our entry into new lines of business may increase our exposure to other risks or real estate market fluctuations and could have a material adverse effect on us.

Risks Related to our Class A Common Stock

Our cash available for distribution to stockholders may not be sufficient to pay distributions at expected or REIT-required levels, or at all, and we may need to borrow or rely on other third-party capital in order to make such distributions, as to which no assurance can be given, which could cause the market price of our common stock to decline significantly.

We intend to continue to pay regular quarterly distributions to our stockholders. However, no assurance can be given that our estimated cash available for distribution to our stockholders will be accurate or that our actual cash available for distribution to our stockholders will be sufficient to pay distributions to them at any expected or REIT-required level or at any particular yield, or at all. Accordingly, we may need to borrow or rely on other third-party capital to make distributions to our stockholders, and such third-party capital may not be available to us on favorable terms or at all. As a result, we may not be able to pay distributions to our stockholders in the future. Our failure to pay any such distributions or to pay distributions that fail to meet our stockholders' expectations from time to time or the distribution requirements for a REIT could cause the market price of our common stock to decline significantly. All distributions will be made at the discretion of our board of directors and will depend on our historical and projected results of operations, liquidity and financial condition, our REIT qualification, our debt service requirements, operating expenses and capital expenditures, prohibitions and other restrictions under financing arrangements and applicable law and other factors as our board of directors may deem relevant from time to time. In addition, we may pay distributions some or all of which may constitute a return of capital. To the extent that we decide to make distributions in excess of our current and accumulated earnings and profits, such distributions would generally be considered a return of capital for federal income tax purposes to the extent of the holder's adjusted tax basis in its shares. A return of capital is not taxable, but it has the effect of reducing the holder's adjusted tax basis in its investment. To the extent that distributions exceed the adjusted tax basis of a holder's shares, they will be treated as gain from the sale or exchange of such shares. If we borrow to fund distributions, our future interest costs would increase, thereby reducing our earnings and cash available for distribution from what they otherwise would have been.

Future issuances or sales of our common stock, or the perception of the possibility of such issuances or sales, may depress the market price of our common stock.

We cannot predict the effect, if any, of our future issuances or sales of our common stock or OP units, or future resales of our common stock or OP units by existing holders, or the perception of such issuances, sales or resales, on the market price of our common stock. Any such future issuances, sales or resales, or the perception that such issuances, sales or resales might occur, could depress the market price of our common stock and also may make it more difficult and costly for us to sell equity or equity-related securities in the future at a time and upon terms that we deem desirable.

As of December 31, 2018, we had 50,995,009 shares of our Class A common stock outstanding. In addition, as of December 31, 2018, we had 128,408 shares of our Class B common stock and 6,675,618 OP units outstanding (each of which may, and in certain cases must, exchange into shares of Class A common stock on a one-for-one basis). In addition, as of December 31, 2018, we had 3,162,500 shares of Series B Preferred Stock, which are convertible into shares of Class A common stock at any time at the option of the holder. Subject to applicable law, our board of directors has the authority, without further stockholder approval, to issue additional shares of common stock and preferred stock on the terms and for the consideration it deems appropriate.

In addition to the restricted stock that we previously have granted to our directors, executive officers and other employees under our equity incentive plan, we may also issue additional shares of our common stock and securities convertible into, or exchangeable or exercisable for, our common stock under our equity incentive plan. We have filed with the SEC a registration statement on Form S-8 covering the common stock issuable under our equity incentive plan. Shares of our common stock covered by such registration statement are eligible for transfer or resale without restriction under the Securities Act, unless held by affiliates. We also may issue from time to time additional shares of our common stock or OP units in connection with acquisitions and may grant registration rights in connection with such issuances pursuant to which we would agree to register the resale of such securities under the Securities Act. In addition, we have granted registration rights to Chad L. Williams, our Chairman and Chief Executive Officer, and others with respect to shares of common stock owned by them or upon redemption of OP units held by them. The market price of our common stock may decline significantly upon the registration of additional shares of our common stock pursuant to these registration rights or future issuances of equity in connection with acquisitions or our equity incentive plan.

Future issuances of debt securities, which would rank senior to our common stock upon our liquidation, and future issuances of equity securities (including OP units), which would dilute the holdings of our existing common stockholders and may be senior to our common stock for the purposes of making distributions, periodically or upon liquidation, may negatively affect the market price of our common stock.

In the future, we may issue debt or equity securities or incur other borrowings. Upon our liquidation, holders of our debt securities and other loans and preferred stock will receive a distribution of our available assets before common stockholders. If we incur debt in the future, our future interest costs could increase and adversely affect our results of operations and liquidity.

We are not required to offer any additional equity securities to existing common stockholders on a preemptive basis. Therefore, additional common stock issuances, directly or through convertible or exchangeable securities (including OP units), warrants or options, will dilute the holdings of our existing common stockholders and such issuances, or the perception of such issuances, may reduce the market price of our common stock. Our Series A Preferred Stock and our Series B Preferred Stock has a preference on distribution payments, periodically or upon liquidation, which could eliminate or otherwise limit our ability to make distributions to common stockholders. In addition, our Series B Preferred Stock is convertible, at any time, at the option of the holder thereof, into shares of our Class A common stock at an initial conversion rate of 2.1264 shares of our Class A common stock per share of Series B Preferred Stock, subject to certain adjustments including adjustments on a fundamental change transaction. As a result, the issuance of additional shares of our Class A common stock upon conversion of the Series B Preferred Stock will dilute the ownership interest of our Class A common stockholders and could have a dilutive effect on earnings per share of our Class A common stock and funds from operations per share of our Class A common stock. Because our decision to issue debt or equity securities or incur other borrowings in the future will depend on market conditions and other factors beyond our control, we cannot predict or estimate the amount, timing, nature or success of our future capital-raising efforts. Thus, common stockholders bear the risk that our future issuances of debt or equity securities or our incurrence of other borrowings will negatively affect the market price of our common stock.

The trading volume and market price of our common stock may be volatile and could decline significantly in the future.

The market price of our common stock may be volatile. The stock markets, including the NYSE, on which our common stock is listed, have experienced significant price and volume fluctuations. As a result, the market price of our common stock is likely to be similarly volatile, and could decline significantly, unrelated to our operating performance or prospects. The market price of our common stock could be subject to wide fluctuations in response to a number of factors, including those listed in this "Risk Factors" section of this Form 10-K and others such as:

- our operating performance and prospects and those of other similar companies;
- actual or anticipated variations in our financial condition, liquidity, results of operations, FFO, Operating FFO, Adjusted Operating FFO, NOI, EBITDA*re* or MRR in the amount of distributions, if any, paid to our stockholders;
- changes in our estimates or those of securities analysts relating to our earnings or other operating metrics;
- publication of research reports about us, our significant customers, our competition, data center companies generally, the real estate industry or the technology industry;
- additions or departures of key personnel;
- the passage of legislation or other regulatory developments that adversely affect us or our industry;
- changes in market valuations of similar companies;
- adverse market reaction to leverage we may incur or equity we may issue in the future;
- actions by institutional stockholders;
- actual or perceived accounting issues, including changes in accounting principles;
- compliance with NYSE requirements;
- our qualification as a REIT;
- terrorist acts;
- speculation in the press or investment community;
- the realization of any of the other risk factors presented in this Form 10-K;
- adverse developments in the creditworthiness, business or prospects of one or more of our significant customers; and
- general market and economic conditions.

In the past, securities class action litigation has often been instituted against companies following periods of volatility in the market price of their common stock. This type of litigation, if brought against us, could result in substantial costs and divert our management's attention and resources, which could have a material adverse effect on us.

Increases in market interest rates may cause prospective purchasers to seek higher distribution yields and therefore reduce demand for our common stock and result in a decline in the market price of our common stock.

The price of our common stock may be influenced by our distribution yield (i.e., the amount of our annual or annualized distributions, if any, as a percentage of the market price of our common stock) relative to market interest rates. An increase in market interest rates, which are currently low relative to historical levels, may lead prospective purchasers and holders of our common stock to expect a higher distribution yield, which we may not be able, or may choose not, to satisfy. As a result, prospective purchasers may decide to purchase other securities rather than our common stock, which would reduce the demand for our common stock, and existing holders of our common stock may decide to sell their shares, either of which could result in a decline in the market price of our common stock.

Risks Related to QTS' Status as a REIT

If QTS does not qualify as a REIT, or fails to remain qualified as a REIT, we will be subject to federal income tax as a regular corporation and could face significant tax liability, which could reduce the amount of cash available for distribution to our stockholders, could have a material adverse effect on QTS, and could adversely affect the Operating Partnership's ability to service its indebtedness.

QTS elected to be taxed as a REIT, commencing with our taxable year ended December 31, 2013, when we filed our tax return for that year. We believe that we have been organized and have operated and will continue to operate in conformity with the requirements for qualification and taxation as a REIT. QTS' qualification as a REIT, and maintenance of such qualification, depends upon our ability to meet, on a continuing basis, various complex requirements under the Code relating to, among other things, the sources of its gross income, the composition and values of its assets, its distributions to its stockholders and the concentration of ownership of its equity shares.

We have not requested and do not plan to request a ruling from the IRS that QTS qualifies as a REIT, and the statements in this Form 10-K are not binding on the IRS, or any court. If QTS loses its REIT status, we will face serious tax consequences that could adversely affect our ability to raise capital and the Operating Partnership's ability to service its indebtedness for each of the years involved because:

- we would not be allowed a deduction for distributions to stockholders in computing our taxable income and would be subject to federal income tax at regular corporate rates and, therefore, would have to pay significant income taxes;
- for taxable years beginning before December 31, 2017, we would be subject to the federal alternative minimum tax and possibly increased state and local taxes; and
- unless we are entitled to relief under applicable statutory provisions, we could not elect to be taxed as a REIT for four taxable years following the year during which it was disqualified.

In addition, if QTS fails to qualify as a REIT, we will not be required to make distributions to stockholders, and all distributions to stockholders will be subject to tax as dividend income to the extent of its current and accumulated earnings and profits. As a result of all these factors, QTS' failure to qualify as a REIT could impair our ability to execute our business and growth strategies, as well as make it more difficult for us to raise capital and for the Operating Partnership to service its indebtedness.

Qualifying as a REIT involves highly technical and complex provisions of the Code and therefore, in certain circumstances, may be subject to uncertainty.

In order to qualify as a REIT, QTS must satisfy a number of requirements, including requirements regarding the composition of our assets, the sources of our income and the diversity of our share ownership. Also, we must make distributions to stockholders aggregating annually at least 90% of our "REIT taxable income" (determined without regard to the dividends paid deduction and excluding net capital gain). Compliance with these requirements and all other requirements for qualification as a REIT involves the application of highly technical and complex Code provisions for which there are only limited judicial and administrative interpretations. The complexity of these provisions and of the

applicable U.S. Department of the Treasury regulations ("Treasury Regulations") that have been promulgated under the Code is greater in the case of a REIT that, like QTS, holds its assets through a partnership and conducts significant business operations through one or more taxable REIT subsidiaries (each a "TRS"). Even a technical or inadvertent mistake could jeopardize QTS' REIT status. In addition, the determination of various factual matters and circumstances relevant to REIT qualification is not entirely within our control and may affect its ability to qualify as a REIT. Accordingly, we cannot be certain that our organization and operation will enable QTS to qualify as a REIT for federal income tax purposes.

Even if QTS qualifies as a REIT, we will be subject to some taxes that will reduce our cash flow.

Even if QTS qualifies for taxation as a REIT, we may be subject to certain federal, state and local taxes on our income and assets, including taxes on any undistributed income, tax on income from some activities conducted as a result of a foreclosure, and state or local income, property and transfer taxes. For example, our TRSs and certain of our subsidiaries are subject to federal, state, and local corporate-level income taxes on their net taxable income, if any, which primarily consists of the revenues from the Cloud and Managed Service business. In addition, QTS may incur a 100% excise tax on transactions with our TRSs if they are not conducted on an arms' length basis. See "The ownership limitation on TRS stock could limit the growth of the Cloud and Managed Services business, and our transactions with our TRSs will cause us to be subject to a 100% penalty tax on certain income or deductions if those transactions are not conducted on arm's-length terms" below.

Moreover, if we have net income from "prohibited transactions," that income will be subject to a 100% tax. In general, prohibited transactions are sales or other dispositions by the Operating Partnership of property held primarily for sale to customers in the ordinary course of business. The determination as to whether a particular sale is a prohibited transaction depends on the facts and circumstances related to that sale. The need to avoid prohibited transactions could cause the Operating Partnership to forgo or defer sales of properties that it otherwise would have sold or that might otherwise be in its best interest to sell. In addition, we could, in certain circumstances, be required to pay an excise or penalty tax (which could be significant in amount) in order to utilize one or more relief provisions under the Code to maintain our qualification as a REIT. Any of these taxes would reduce our cash flow and could decrease cash available for distribution to stockholders and decrease cash available to service the Operating Partnership's indebtedness.

If the structural components of our properties were not treated as real property for purposes of the REIT qualification requirements, QTS could fail to qualify as a REIT, which could have a material adverse effect on us.

A significant portion of the value of our properties is attributable to structural components related to the provision of electricity, heating ventilation and air conditioning, humidification regulation, security and fire protection, and telecommunication services. If rent attributable to personal property leased in connection with a lease of real property is greater than 15% of the total rent attributable to that lease, the portion of total rent that is attributable to the personal property will not be qualifying income for purposes of the REIT income tests. Therefore, if the Operating Partnership's structural components of the properties are determined not to constitute real property for purposes of the REIT qualification requirements, we could fail to qualify as a REIT, which could have a material adverse impact on us, depress the market price of our common stock, and adversely affect our ability to raise capital as well as the Operating Partnership's ability to service its indebtedness.

The REIT distribution requirements could adversely affect our ability to grow our business and may force us to seek third-party capital during unfavorable market conditions.

To qualify as a REIT, we generally must distribute to our stockholders at least 90% of its "REIT taxable income" (determined without regard to the dividends paid deduction and excluding net capital gain) each year, and we will be subject to regular corporate income taxes to the extent that we distribute less than 100% of our "REIT taxable income" each year. In addition, we will be subject to a 4% nondeductible excise tax on the amount, if any, by which distributions paid by us in any calendar year are less than the sum of 85% of our ordinary income, 95% of our capital gain net income and 100% of our undistributed income from prior years. In order to maintain our REIT status and avoid the payment of income and excise taxes, we may be forced to seek third-party capital to meet the distribution requirements even if the then-prevailing market conditions are not favorable. These capital needs could result from differences in timing between the recognition of taxable income and the actual receipt of cash or the effect of non-deductible capital expenditures, the creation of reserves or required debt or amortization payments. If we do not have other funds available in these situations, the Operating Partnership could be required to borrow funds on unfavorable terms, or sell assets at

disadvantageous prices. In addition, we may be forced to distribute amounts that would otherwise have been invested in future acquisitions to make distributions sufficient to enable us to pay out enough of our taxable income to satisfy the REIT distribution requirement and to avoid corporate income tax and the 4% excise tax in a particular year.

Dividends payable by REITs do not qualify for the reduced tax rates available for some dividends, which could depress the market price of our common stock if it is perceived as a less attractive investment.

The maximum tax rate applicable to income from "qualified dividends" payable by non-REIT "C" corporations to U.S. stockholders that are individuals, trusts and estates generally is 20% (excluding the 3.8% net investment income tax). Dividends payable by REITs, however, generally are not eligible for the current reduced rate, except to the extent that certain holding requirements have been met and a REIT's dividends are attributable to dividends received by a REIT from taxable corporations (such as a TRS), to income that was subject to tax at the REIT/corporate level, or to dividends properly designated by the REIT as "capital gains dividends." Effective for taxable years beginning after December 31, 2017, and before January 1, 2026, those U.S. stockholders may deduct 20% of their dividends from REITs (excluding qualified dividend income and capital gains dividends). For those U.S. stockholders in the top marginal tax bracket of 37%, the deduction for REIT dividends yields an effective income tax rate of 29.6% on REIT dividends, which is higher than the 20% tax rate on qualified dividend income paid by non-REIT "C" corporations. Although the reduced rates applicable to dividend income from non-REIT "C" corporations do not adversely affect the taxation of REITs or dividends payable by REITs, it could cause investors who are non-corporate taxpayers to perceive investments in REITs to be relatively less attractive than investments in the stock of non-REIT "C" corporations that pay dividends, which could depress the market price of the stock of REITs, including our common stock.

QTS may in the future choose to pay dividends in the form of shares of common stock, in which case stockholders may be required to pay income taxes in excess of the cash dividends they receive.

The Company may seek in the future to distribute taxable dividends that are payable in cash and shares of common stock, at the election of each stockholder. Taxable stockholders receiving such dividends will be required to include the full amount of the dividend as ordinary income to the extent of QTS' current and accumulated earnings and profits for federal income tax purposes. As a result, stockholders may be required to pay income taxes with respect to such dividends in excess of the cash dividends received. If a U.S. stockholder sells the shares of common stock that it receives as a dividend in order to pay this tax, the sales proceeds may be less than the amount included in income with respect to the dividend, depending on the market price of common stock at the time of the sale. In addition, in such case, a U.S. stockholder could have a capital loss with respect to the common stock sold that could not be used to offset such dividend income. Furthermore, with respect to certain non-U.S. stockholders, the Company may be required to withhold federal income tax with respect to such dividends, including in respect of all or a portion of such dividend that is payable in common stock. In addition, such a taxable share dividend could be viewed as equivalent to a reduction in QTS' cash distributions, and that factor, as well as the possibility that a significant number of QTS' stockholders could determine to sell shares of common stock in order to pay taxes owed on dividends, may put downward pressure on the market price of the QTS' common stock.

Complying with REIT requirements may cause the Operating Partnership to liquidate or forgo otherwise attractive investment opportunities.

To qualify as a REIT, we must ensure that, at the end of each calendar quarter, at least 75% of the value of our assets consists of cash, cash items, government securities and "real estate assets" (as defined in the Code), including certain mortgage loans and securities (the "75% asset test"). The remainder of our investments (other than securities includable in the 75% asset test, and securities issued by our TRSs) generally cannot include more than 10% of the outstanding voting securities of any one issuer or more than 10% of the total value of the outstanding securities of any one issuer. In addition, in general, no more than 5% of the value of our total assets (other than securities includable in the 75% asset test, and securities issued by our TRSs) can consist of the securities of any one issuer no more than 20% (25% for our tax years that began prior to December 31, 2017) of the value of our total assets can be represented by securities of one or more TRS, and debt instruments issued by publicly offered REITs, to the extent not secured by real property or interests in real property, cannot exceed 25% of the value of our total assets. If we fail to comply with these requirements at the end of any calendar quarter, we must correct the failure within 30 days after the end of the calendar quarter or qualify for certain statutory relief provisions to avoid losing our REIT qualification and suffering adverse tax consequences. As a result, the Operating Partnership may be required to liquidate or forgo otherwise attractive investment opportunities. These actions could have the effect of reducing our income and amounts available for

distribution to our stockholders and the Operating Partnership's income and amounts available to service its indebtedness.

In addition to the asset tests set forth above, to qualify as a REIT, we must continually satisfy tests concerning, among other things, the sources of our income, the amounts we distribute to our stockholders and the ownership of our stock. The Operating Partnership may be unable to pursue investment opportunities that would be otherwise advantageous to it in order to satisfy the source-of-income or asset-diversification requirements for us to qualify as a REIT. Thus, compliance with the REIT requirements may hinder the Operating Partnership's ability to make certain attractive investments and, thus, reduce the Operating Partnership's income and amounts available to service its indebtedness.

Our ability to own stock and securities of TRSs is limited and our transactions with our TRSs will cause us to be subject to a 100% penalty tax on certain income or deductions if those transactions are not conducted on arm's-length terms.

A REIT may own up to 100% of the stock of one or more TRSs. A TRS may hold assets and earn income that would not be qualifying assets or income if held or earned directly by a REIT. Both the subsidiary and the REIT must jointly elect to treat the subsidiary as a TRS. A corporation of which a TRS directly or indirectly owns more than 35% of the voting power or value of the stock will automatically be treated as a TRS. Overall, no more than 20% of the value of a REIT's assets may consist of stock or securities of one or more TRSs. In addition, the rules applicable to TRSs limit the deductibility of interest paid or accrued by a TRS to its parent REIT to assure that the TRS is subject to an appropriate level of corporate taxation. The rules also impose a 100% excise tax on "redetermined rent," "redetermined deductions" or "excess interest" to the extent rent paid by a TRS exceeds an arm's-length amount, and a 100% excise tax on "redetermined TRS service income" (generally, gross income (less deductions allocable thereto) of a TRS attributable to services provided to, or on behalf of, the parent REIT that is less than the amounts that would have been paid by a REIT to the TRSs if based on arm's length negotiations).

Our TRSs will pay U.S. federal, state and local income tax on its taxable income. The after-tax net income of our TRSs will be available for distribution to us but generally is not required to be distributed. We believe that the aggregate value of the stock and securities of our TRSs is less than 20% of the value of our total assets (including the stock and securities of our TRSs). Furthermore, we monitor the value of our respective investments in our TRSs for the purpose of ensuring compliance with the ownership limitations applicable to TRSs. We scrutinize all of our transactions involving our TRSs to ensure that they are entered into on arm's-length terms to avoid incurring the 100% excise tax described above. There can be no assurance, however, that we will be able to comply with the 20% limitation discussed above or avoid application of the 100% excise tax discussed above.

Complying with REIT requirements may limit the Operating Partnership's ability to hedge effectively and may cause QTS and/or QTS' TRSs to incur tax liabilities.

The REIT provisions of the Code substantially limit our ability to hedge our assets and liabilities. Any income from a hedging transaction that the Operating Partnership enters into to manage the risk of interest rate changes with respect to borrowings made or to be made to acquire or carry real estate assets, or manage the risk of certain currency fluctuations, does not constitute "gross income" for purposes of the 75% or 95% gross income tests that apply to REITs, provided that certain identification requirements are met. To the extent that the Operating Partnership enters into other types of hedging transactions or fails to properly identify such transaction as hedges, the income is likely to be treated as non-qualifying income for purposes of both of the gross income tests. As a result of these rules, the Operating Partnership may be required to limit its use of advantageous hedging techniques or implement those hedges through a TRS. This could increase the cost of the Operating Partnership's hedging activities because a TRS may be subject to tax on gains or expose the Operating Partnership to greater risks associated with changes in interest rates than it would otherwise want to bear. In addition, losses in a TRS will generally not provide any current tax benefit, except that such losses could be carried back or forward and therefore be applied against past or future taxable income of the TRSs.

If the Operating Partnership fails to qualify as a partnership for federal income tax purposes, QTS would fail to qualify as a REIT and suffer other adverse consequences.

The Operating Partnership believes that it has been organized and operated in a manner so as to be treated as a partnership, and not an association or publicly traded partnership taxable as a corporation for federal income tax purposes. As a partnership, it is not subject to federal income tax on its income. Instead, each of its partners, including

QTS, is allocated that partner's share of the Operating Partnership's income. No assurance can be provided, however, that the IRS will not challenge its status as a partnership for federal income tax purposes, or that a court would not sustain such a challenge. If the IRS were successful in treating the Operating Partnership as an association or publicly traded partnership taxable as a corporation for federal income tax purposes, QTS would fail to meet the gross income tests and certain of the asset tests applicable to REITs and, accordingly, would cease to qualify as a REIT, which could adversely affect our ability to raise capital and the Operating Partnership's ability to service its indebtedness. Also, the failure of the Operating Partnership to qualify as a partnership would cause it to become subject to federal corporate income tax, which would reduce significantly the amount of its cash available for debt service and for distribution to its partners, including QTS.

QTS has a carryover tax basis in respect of certain of its assets acquired in connection with the IPO, and the amount that QTS must distribute to its stockholders therefore may be higher.

As a result of the tax-free merger of General Atlantic REIT, Inc. ("GA REIT") with and into QTS in connection with the IPO, certain of the operating properties, including Atlanta-Metro, Atlanta-Suwanee, Richmond, Santa Clara and Miami, have carryover tax bases that are lower than the fair market values of these properties at the time QTS acquired them in connection with the IPO. As a result of this lower aggregate tax basis, QTS will recognize higher taxable gain upon the sale of these assets, and QTS will be entitled to lower depreciation deductions on these assets than if it had purchased these properties in taxable transactions at the time of the IPO. Lower depreciation deductions and increased gains on sales generally will increase the amount of QTS' required distribution under the REIT rules.

As a result of our formation transactions in connection with QTS' initial public offering, Quality Technology Services Holding, LLC ("QTS Holdings TRS") may be limited in using certain tax benefits and, consequently, may have greater taxable income and, thus, the Operating Partnership may have less after-tax cash available to service its indebtedness.

If a corporation undergoes an "ownership change" within the meaning of Section 382 of the Code and the Treasury Regulations thereunder, such corporation's ability to use net operating losses ("NOLs") generated prior to the time of that ownership change may be limited. To the extent the affected corporation's ability to use NOLs is limited, such corporation's taxable income may increase. As of December 31, 2018, QTS had approximately \$33.4 million of NOLs (all of which are attributable to QTS Holdings TRS (a TRS of QTS)) that will begin to expire in 20 years if not utilized. In general, an ownership change occurs if one or more large stockholders, known as "5% stockholders," including groups of stockholders that may be aggregated and treated as a single 5% stockholder, increase their aggregate percentage interest in a corporation by more than 50% over their lowest ownership percentage during the preceding three-year period. We believe that the formation transactions in connection with QTS' public offering, caused an ownership change within the meaning of Section 382 of the Code with respect to QTS Holdings TRS. Accordingly, to the extent QTS Holdings TRS has taxable income in future years, its ability to use NOLs incurred prior to our formation transactions in connection with QTS' initial public offering in such future years will be limited, and it will have greater taxable income as a result of such limitation. As a result of those limitations, the Operating Partnership may have less after-tax cash available to service its indebtedness.

The new tax law imposed further limits on the deductibility of certain executive compensation expense, which could result in greater taxes for our TRS or the need to increase distributions to our stockholders.

Under Section 162(m) of the Internal Revenue Code, a publicly held corporation is generally limited to a \$1 million annual tax deduction for compensation paid to each of its "covered employees." Prior to the enactment of the Tax Cuts and Jobs Act ("2018 Tax Law"), a publicly held corporation's covered employees included its chief executive officer and three other most highly compensated executive officers (other than the chief financial officer), and certain "qualified performance-based compensation" was excluded from the \$1 million deduction limit. As a result of the 2018 Tax Law, which became effective January 1, 2018, the definition of "covered employee" was expanded to include a publicly held corporation's chief financial officer, and the exception for "qualified performance-based compensation" was repealed, subject to a grandfather rule for compensation paid pursuant to a written, binding contract that was in effect on November 2, 2017, which was not modified in any material respect on or after that date.

As a REIT, we are generally not subject to federal income taxes other than through our TRS. Moreover, the IRS has previously issued private letter rulings holding that, under certain circumstances, Section 162(m) does not apply to compensation paid to employees of a REIT's operating partnership. We therefore should not be subject to the

Section 162(m) limits with respect to compensation paid by our Operating Partnership or its subsidiaries to the Company's executive officers for services to our Operating Partnership. However, if we make compensation payments at the REIT level or if Section 162(m) is deemed to apply to our Operating Partnership or our TRS, we may be required to make additional distributions to stockholders to comply with our REIT distribution requirements and eliminate our U.S. federal income tax liability and a larger portion of stockholder distributions that would otherwise have been treated as a return of capital may be subject to U.S. federal income tax as dividend income as a result of our increased taxable income. Any such compensation allocated to our taxable REIT subsidiaries, whose income is subject to U.S. federal income tax, would result in an increase in income taxes due to the inability to deduct such compensation.

Legislative or other actions affecting REITs could materially and adversely affect us and our investors as well as the Operating Partnership.

The rules dealing with federal income taxation are constantly under review by persons involved in the legislative process and by the IRS and the U.S. Department of the Treasury. Changes to the tax laws, with or without retroactive application, could materially and adversely affect us and our stockholders as well as the Operating Partnership. We cannot predict when or if any new federal income tax law, regulation, or administrative interpretation, or any amendment to any existing federal income tax law, regulation or administrative interpretation will be adopted, promulgated or become effective and any such law, regulation, or interpretation may take effect retroactively. New legislation, Treasury Regulations, administrative interpretations or court decisions could significantly and negatively affect our ability to qualify as a REIT or the federal income tax consequences of such qualification. We urge you to consult with your tax advisor with respect to the status of legislative, regulatory or administrative developments and proposals and their potential effect on an investment in our stock. Although REITs generally receive certain tax advantages compared to entities taxed as C corporations, it is possible that future legislation would result in a REIT having fewer tax advantages, and it could become more advantageous for a company that invests in real estate to elect to be treated for U.S. federal income tax purposes as a C corporation.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Our Portfolio

We operate a portfolio of 25 data centers located throughout the United States, Canada, Europe and Asia. Within the U.S., we are located in some of the top U.S. data center markets and other high-growth markets. Our data centers are highly specialized, full-service, mission-critical facilities used by our customers to house, power and cool the networking equipment and computer systems that support their most critical business processes.

Operating Properties

The following table presents an overview of the portfolio of operating properties that we own or lease, referred to herein as our operating properties, based on information as of December 31, 2018. The table excludes data center development associated with land acquired in Phoenix, AZ and Hillsboro, OR. Additionally, the table excludes the 28 acres purchased in Ashburn, VA in 2017, but includes the 24 acres currently under development in Ashburn. Subsequent to December 31, 2018, the Company entered into a joint venture agreement whereby it contributed the Manassas facility to a 50% owned joint venture. Balances in the following table represent QTS' full 100% ownership percentage at

December 31, 2018, however beginning in the first quarter of 2019 the Company will only report its 50% share of property information related to Manassas.

Operating Net Rentable Square Feet (Operating NRSF) (3)

Property	Year Acquired ⁽¹⁾	Gross Square Feet ⁽²⁾	Raised Floor ⁽⁴⁾	Office & Other (5)	Supporting Infrastructure (6)	Total	% Occupied and Billing (7)	Annualized Rent ⁽⁸⁾	Available Utility Power (MW) ⁽⁹⁾	Basis of Design NRSF	Raised Floor as a % of BOD
Richmond, VA	2010	1,318,353	167,309	51,093	178,854	397,256	74.0 %	\$ 41,072,149	110	557,309	30.0 %
Atlanta, GA (Metro)	2006	968,695	477,986	36,953	342,426	857,365	99.2 %	\$ 101,394,293	72	527,186	90.7 %
Irving, TX	2013	698,000	174,160	6,981	179,083	360,224	94.7 %	\$ 50,666,209	140	275,701	63.2 %
Princeton, NJ	2014	553,930	58,157	2,229	111,405	171,791	100.0 %	\$ 10,165,648	22	158,157	36.8 %
Chicago, IL	2014	474,979	46,000	1,786	47,582	95,368	77.6 %	\$ 11,683,980	24	215,855	21.3 %
Ashburn, VA	2017	445,000	14,230	6,096	23,240	43,566	100.0 %	\$ 2,157,036	50	178,000	8.0 %
Manassas, VA	2018	118,031	_	. —		_	— %	\$	24	66,324	— %
Suwanee, GA	2005	369,822	205,608	8,697	107,128	321,433	91.9 %	\$ 55,080,296	36	205,608	100.0 %
Piscataway, NJ	2016	360,000	98,820	14,311	100,151	213,282	88.4 %	\$ 17,099,003	111	176,000	56.1 %
Fort Worth, TX	2016	261,836	10,600	_	19,438	30,038	100.0 %	\$ 2,084,516	50	80,000	13.3 %
Santa Clara, CA*	2007	135,322	55,905	944	45,094	101,943	78.4 %	\$ 17,687,411	11	80,940	69.1 %
Sacramento, CA	2012	92,644	54,595	2,794	23,916	81,305	46.8 %	\$ 11,965,211	8	54,595	100.0 %
Dulles, VA	2017	87,159	30,545	5,997	32,892	69,434	62.1 %	\$ 17,452,495	13	48,270	63.3 %
Leased facilities **	2006 & 2015	192,588	63,937	18,650	41,901	124,488	84.9 %	\$ 28,461,031	14	84,549	75.6 %
Other ***	Misc.	147,435	22,380	49,337	30,074	101,791	67.8 %	\$ 6,720,934	5	22,380	100.0 %
Total		6,223,794	1,480,232	205,868	1,283,184	2,969,284	89.9	\$ 373,690,212	691	2,730,874	54.2 %

Current

- (1) Represents the year a property was acquired or, in the case of a property under lease, the year our initial lease commenced for the property.
- (2) With respect to our owned properties, gross square feet represents the entire building area. With respect to leased properties, gross square feet represents that portion of the gross square feet subject to our lease. This includes 347,261 square feet of our office and support space, which is not included in operating NRSF.
- (3) Represents the total square feet of a building that is currently leased or available for lease plus developed supporting infrastructure, based on engineering drawings and estimates, but does not include space held for redevelopment or space used for our own office space.
- (4) Represents management's estimate of the portion of NRSF of the facility with available power and cooling capacity that is currently leased or readily available to be leased to customers as data center space based on engineering drawings.
- (5) Represents the operating NRSF of the facility other than data center space (typically office and storage space) that is currently leased or available to be leased.
- (6) Represents required data center support space, including mechanical, telecommunications and utility rooms, as well as building common areas.
- (7) Calculated as data center raised floor that is subject to a signed lease for which billing has commenced (1,080,355 square feet as of December 31, 2018) divided by leasable raised floor based on the current configuration of the properties (1,201,255 square feet as of December 31, 2018), expressed as a percentage.
- (8) We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental activities and cloud and managed services, but excludes customer recoveries, deferred set up fees and other one-time and variable revenues. MRR does not include the impact from booked-not-billed contracts as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect the accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.
- (9) Represents installed utility power and transformation capacity that is available for use by the facility as of December 31, 2018.
- * Subject to long term ground lease.
- ** Includes 10 facilities. All facilities are leased, including those subject to capital leases. During the quarter ended December 31, 2018, the Company exited the Harrisonburg, VA facility.
- *** Consists of Miami, FL; Lenexa, KS; Overland Park, KS; and Duluth, GA facilities.

Development Pipeline

The following table presents an overview of our development pipeline, based on information as of December 31, 2018.

Raised Floor NRSF Overview as of December 31, 2018

Property	Current NRSF in Service	Under Construction (1)	Future Available ⁽²⁾	Basis of Design NRSF	Approximate Acreage of Available Land (3)
Richmond, VA	167,309		390,000	557,309	111.1
Atlanta, GA (Metro)	477,986	20,000	29,200	527,186	71.7
Irving, TX	174,160	25,000	76,541	275,701	29.4
Princeton, NJ	58,157	_	100,000	158,157	65.0
Chicago, IL	46,000	20,000	149,855	215,855	23.0
Ashburn, VA	14,230	31,971	131,799	178,000	35.3
Manassas, VA (4)		22,400	43,924	66,324	102.4
Suwanee, GA	205,608			205,608	15.4
Piscataway, NJ	98,820	5,000	72,180	176,000	
Fort Worth, TX	10,600	26,000	43,400	80,000	26.5
Santa Clara, CA	55,905	4,000	21,035	80,940	
Sacramento, CA	54,595			54,595	
Dulles, VA	30,545		17,725	48,270	
Leased facilities (5)	63,937	_	20,612	84,549	
Phoenix, AZ					84.2
Hillsboro, OR					92.0
Other (6)	22,380		_	22,380	
Totals as of December 31, 2018	1,480,232	154,371	1,096,271	2,730,874	656.0

Reflects NRSF at a facility for which the initiation of substantial activities has begun to prepare the property for its intended use on or before December 31, 2019.

The table below sets forth our estimated costs for completion of our major development projects currently under construction and expected to be operational by December 31, 2019 (dollars in millions):

	Estimated Cost					Expected
Property	Actual (2)	to C	ompletion (3)		Total	Completion date
Fort Worth, TX	\$ 33	\$	3	\$	36	Q2 & Q4 2019
Manassas, VA (4)	72		35		107	Q1 & Q2 2019
Ashburn, VA	53		10		63	Q1, Q3, & Q4 2019
Irving, TX	32		11		43	Q3 & Q4 2019
Chicago, IL	29		10		39	Q1, Q3, & Q4 2019
Atlanta, GA (Metro)	1		19		20	Q2 2019
Santa Clara, CA	7		8		15	Q1 & Q4 2019
Piscataway, NJ	 4		1_		5_	Q3 2019
Totals	\$ 231	\$	96	\$	327	

⁽¹⁾ In addition to projects currently under construction, our near-term development projects are expected to be delivered in a modular manner, and we currently expect to invest additional capital to complete these near term projects. The ultimate timing and completion of, and the commitment of capital to, our future development projects are within our discretion and will depend upon a variety of factors, including the actual contracts executed, availability of financing and our estimation of the future market for data center space in each particular market.

⁽²⁾ Reflects NRSF at a facility for which the initiation of substantial activities has begun to prepare the property for its intended use after December 31, 2019.

⁽³⁾ The total cost basis of available land, which is land available for future development, is approximately \$237.6 million, of which \$205.4 million is included in Construction in Progress on the consolidated balance sheet. The Basis of Design NRSF does not include any build-out on the undeveloped available land.

⁽⁴⁾ Subsequent to December 31, 2018, the Company entered into a joint venture agreement whereby it contributed the Manassas facility to a 50% owned joint venture. Balances herein represent QTS' full 100% ownership percentage at December 31, 2018, however beginning in the first quarter of 2019 the Company will only report its 50% share of property information related to Manassas.

⁽⁵⁾ Includes 10 facilities. All facilities are leased, including those subject to capital leases.

⁽⁶⁾ Consists of Miami, FL; Lenexa, KS; and Overland Park, KS facilities.

- (2) Represents actual costs for NRSF under construction through December 31, 2018. In addition to the \$231 million of construction costs incurred through December 31, 2018 for development expected to be completed by December 31, 2019, as of December 31, 2018 we had incurred \$559 million of additional costs (including acquisition costs and other capitalized costs) for other development projects that are expected to be completed after December 31, 2019.
- (3) Represents management's estimate of the additional costs required to complete the current NRSF under development. There may be an increase in costs if customers' requirements exceed our current basis of design.
- (4) Subsequent to December 31, 2018, the Company entered into a joint venture agreement whereby it contributed the Manassas facility to a 50% owned joint venture. Balances herein represent QTS' full 100% ownership percentage at December 31, 2018, however beginning in the first quarter of 2019 the Company will only report its 50% share of property information related to Manassas.

We also own an aggregate of 650 acres of additional available land at our Richmond, Atlanta-Metro, Irving, Princeton, Chicago, Ashburn, Manassas, Atlanta-Suwanee, Fort Worth, Phoenix, and Hillsboro data center properties which can support the development of over 10.3 million additional square feet of raised floor.

Customer Diversification

Our portfolio is currently leased to more than 1,100 customers comprised of companies of all sizes representing an array of industries, each with unique and varied business models and needs. The following table sets forth information regarding the 10 largest customers in our portfolio based on annualized rent as of December 31, 2018:

Principal Customer Industry	Number of Locations	Annualized Rent (1)	% of Portfolio Annualized Rent	Weighted Average Remaining Lease Term (Months) (2)
Content & Digital Media	2	\$ 47,764,309	12.8 %	31
Cloud & IT Services	3	18,375,801	4.9 %	63
Cloud & IT Services	1	18,337,655	4.9 %	39
Cloud & IT Services	3	13,544,211	3.6 %	62
Content & Digital Media	3	12,563,160	3.4 %	38
Cloud & IT Services	5	9,297,240	2.5 %	25
Cloud & IT Services	15	7,981,824	2.1 %	31
Government & Security	1	6,641,269	1.8 %	51
Cloud & IT Services	1	5,215,413	1.4 %	48
Financial Services	1	4,823,112	1.3 %	67
Total / Weighted Average		\$ 144,543,993	38.7 %	42

⁽¹⁾ Annualized rent is presented for leases commenced as of December 31, 2018. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

The following chart shows the breakdown of all our customers by industry based on annualized rent as of December 31, 2018:

	% of Total Annualized Rent
Industry	as of December 31, 2018
Cloud & IT Services	28.6 %
Content & Digital Media	21.8 %
Financial Services	14.9 %
Network	7.6 %
Healthcare	6.8 %
Government & Security	
Retail	5.4 %
Other	
Total	100.0 %

⁽²⁾ Weighted average based on customer's percentage of total annualized rent expiring as of December 31, 2018.

Lease Distribution by Product Type

Product Type (Square Feet) (1)	Total Leased Raised Floor (2)	% of Portfolio Leased Raised Floor	Annualized Rent (3)	% of Portfolio Annualized Rent
Hyperscale	584,554	54 %	\$ 126,996,225	34 %
Hybrid Colocation	495,801	46 %	246,693,987	66 %
Portfolio Total	1,080,355	100 %	\$ 373,690,212	100 %

⁽¹⁾ Represents all leases in our portfolio for which billing has commenced as of December 31, 2018.

Lease Expirations

The following table sets forth a summary schedule of the lease expirations as of December 31, 2018 at the properties in our portfolio. Unless otherwise stated in the footnotes, the information set forth in the table assumes that customers exercise no renewal options and all early termination rights are exercised:

Year of Lease Expiration	Number of Leases Expiring (1)	Total Raised Floor of Expiring Leases	% of Portfolio Leased Raised Floor	An	nualized Rent (2)	% of Portfolio Annualized Rent
Month-to-Month (3)	578	89,544	8 %	\$	24,966,777	7 %
2019	1,594	140,587	13 %		95,867,893	26 %
2020	1,151	107,316	10 %		59,304,273	16 %
2021	739	206,990	19 %		63,278,266	17 %
2022	269	232,517	22 %		62,093,627	17 %
2023	144	119,977	11 %		31,463,891	8 %
2024	78	139,340	13 %		31,949,433	8 %
2025	13	10,295	1 %		2,940,804	1 %
2026	5	32	— %		29,400	— %
2027	11	21,442	2 %		1,212,864	— %
2028	3	2,930	— %		346,200	— %
After 2028	4	9,385	1 %		236,784	%
Portfolio Total	4,589	1,080,355	100 %	\$	373,690,212	100 %

⁽¹⁾ Represents each agreement with a customer signed as of December 31, 2018 for which billing has commenced; a lease agreement could include multiple spaces and a customer could have multiple leases.

Description of Our Properties

Below is a description of our properties. More detail is provided for the properties that represent more than ten percent of our total assets or accounted for more than ten percent of our aggregate gross revenues or both as of and for the year ended December 31, 2018.

⁽²⁾ Represents the square footage of raised floor at a property under lease as specified in the lease and that has commenced billing as of December 31, 2018.

⁽³⁾ Annualized rent is presented for leases commenced as of December 31, 2018. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

⁽²⁾ Annualized rent is presented for leases commenced as of December 31, 2018. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

⁽³⁾ Consists of both customer leases whose original contract terms ended on December 31, 2018 and have yet to commence previously signed renewals as well as customers whose leases expired prior to December 31, 2018 and have continued on a month-to-month basis.

Atlanta-Metro

Our Atlanta, Georgia facility, or Atlanta-Metro, is currently our largest data center based on total operating NRSF. As of December 31, 2018, the property consisted of approximately 969,000 gross square feet with approximately 857,000 total operating NRSF, including approximately 478,000 raised floor operating NRSF. An on-site Georgia Power substation supplies 72 MW of utility power to the facility, which is backed up by diesel generators, and the facility has 120 MW of transformer capacity. The facility also includes a small amount of private "Class A" office space. As of December 31, 2018, the facility was approximately 99% occupied by 233 customers across our product offerings.

Portions of the Atlanta-Metro facility are included in our development pipeline, as we plan to continue to expand the facility in multiple phases. During the year ended December 31, 2018, we placed approximately 21,000 NRSF of raised floor into service. Our current under construction development plans call for the addition of up to approximately 29,000 total operating NRSF, including approximately 20,000 NRSF of raised floor. We anticipate that this incremental space will cost approximately \$19 million in the aggregate based on current estimates (in addition to costs already incurred as of December 31, 2018). Longer term, we can further expand the facility by approximately 52,000 total operating NRSF, of which approximately 29,000 NRSF would be raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 938,000 total operating NRSF, including approximately 527,000 NRSF of raised floor.

In addition, this facility is adjacent to approximately 72 acres of undeveloped land, inclusive of the land purchase in October of 2018, owned by us that we estimate could be developed to provide, at a minimum, an additional approximately 2.5 million NRSF of raised floor. These 72 acres of undeveloped land are not included in our current development plans. In October 2018, the Company completed the acquisition of approximately 55 acres of land in Atlanta, Georgia adjacent to its existing Atlanta-Metro mega data center.

We are the beneficial owner of our Atlanta-Metro facility through a bond-financed sale-leaseback structure. This structure is necessary in the State of Georgia to receive property tax abatement. In 2006, the Development Authority of Fulton County ("DAFC") issued a taxable industrial development revenue bond to us with a face amount of \$300 million in exchange for legal title to the facility. The acquisition of the bond by us was "cashless" as the bond was issued to us in exchange for title to the facility. The bond matures on December 1, 2019 and bears interest at a rate of 8% per annum. DAFC leased the facility back to us under a bond lease at a rent equal to the debt service on the bond. The bond lease is a triple net lease, which is standard in conduit financing transactions of this type. The rent under the bond lease payable by us, as lessee, is assigned by DAFC to us, as the bondholder. Because the rent and debt service amounts are equal and offsetting, no cash changes hands between DAFC and us. DAFC is the owner and lessor of the facility, but its rights to receive all rental payments and a security interest in the facility have been pledged to us, as the bondholder, as security for the bond. Therefore, we have complete control over the facility at all times. We have an option to buy the facility for \$10 when the bond matures on December 1, 2019. If we wish to obtain title earlier, we can do so by simply surrendering and cancelling the bond and paying the \$10 option price.

Lease Expirations. The following table sets forth a summary schedule of lease expirations for leases in place as of December 31, 2018 at the Atlanta-Metro facility. Unless otherwise stated in the footnotes, the information set forth in the table assumes that customers exercise no renewal options and all early termination rights.

Year of Lease Expiration	Number of Leases Expiring (1)	Total Raised Floor of Expiring Leases	% of Facility Leased Raised Floor	Annualized Rent ⁽²⁾	% of Facility Annualized Rent
Month-to-Month (3)	112	68,972	17 %	\$ 7,898,901	8 %
2019	256	22,660	6 %	18,442,968	18 %
2020	249	33,320	8 %	17,521,494	17 %
2021	105	111,548	28 %	23,152,116	23 %
2022	84	106,340	26 %	23,621,278	23 %
2023	20	36,884	9 %	6,768,186	7 %
2024	1	21,150	5 %	3,477,586	3 %
2025		_	— %		— %
2026		_	— %	_	— %
2027	9	1,216	— %	511,764	1 %
2028		_	— %		— %
After 2028	2	3,445	1 %	_	— %
Total	838	405,535	100 %	\$ 101,394,293	100 %

⁽¹⁾ Represents each lease with a customer signed as of December 31, 2018 for which billing has commenced; a lease agreement could include multiple spaces and/or service orders and a customer could have multiple leases.

Primary Customers. The following table summarizes information regarding primary customers, which are customers occupying 10% or more of the leased raised floor of the Atlanta-Metro facility, as of December 31, 2018:

	Weighted Average			
	Remaining Lease	Renewal	Annualized	% of Facility
Principal Customer Industry	Term (Months) (1)	Option	Rent (2)	Annualized Rent
Content & Digital Media	36	1x3 years & 1x5 years	\$ 36,901,309	36 %
Content & Digital Media	38	3x5 years	10.988.160	11 %

⁽¹⁾ Weighted average based on customer's percentage of total annualized rent expiring as of December 31, 2017.

⁽²⁾ Annualized rent is presented for leases commenced as of December 31, 2018. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

⁽³⁾ Consists of both customer leases whose original contract terms ended on December 31, 2018 and have yet to commence previously signed renewals as well as customers whose leases expired prior to December 31, 2018 and have continued on a month-to-month basis. We do not typically enter into month-to-month leases.

⁽²⁾ Annualized rent is presented for leases commenced as of December 31, 2018. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

Historical Percentage Leased and Annualized Rental Rates. The following table sets forth the leasable raised floor, percentage leased, annualized rent and annualized rent per leased raised square foot for the Atlanta-Metro facility:

Date	Facility Leasable Raised Floor	% Occupied and Billing (1)	Annualized Rent ⁽²⁾	Annualized Rent per Leased Square Foot
December 31, 2018	408,986	99 %	\$ 101,394,293	\$ 250
December 31, 2017	392,114	96 %	96,559,779	256
December 31, 2016	388,227	94 %	92,848,008	254
December 31, 2015	353,967	96 %	82,563,392	243
December 31, 2014	329,342	86 %	72,920,037	257

⁽¹⁾ Calculated as data center raised floor that is subject to a signed lease for which billing has commenced as of the applicable date, divided by leasable raised floor based on the then current configuration of the property, expressed as a percentage.

Atlanta-Suwanee

Our Suwanee, Georgia, or Atlanta-Suwanee, facility consists of approximately 370,000 gross square feet, and as of December 31, 2018 it had approximately 321,000 total operating NRSF, including approximately 206,000 raised floor operating NRSF. Georgia Power supplies 36 MW of utility power to the facility, which is backed up by diesel generators. The facility also contains a small amount of "Class A" private office space and our operating service center, which provides 24x7 support to all of our customers and data centers. As of December 31, 2018, the facility was approximately 92% occupied by 313 customers. We are the fee simple owner of the Atlanta-Suwanee facility.

We are not currently redeveloping significant portions the Atlanta-Suwanee facility.

The facility is adjacent to 15 acres of undeveloped land owned by us that we believe could be developed to provide, at a minimum, an additional approximately 310,000 total operating NRSF, of which approximately would be 210,000 NRSF of raised floor. These 15 acres of undeveloped land are not included in our current development plans.

Lease Expirations. The following table sets forth a summary schedule of the lease expirations for leases in place as of December 31, 2018 at the Atlanta-Suwanee facility. Unless otherwise stated in the footnotes, the information set forth in the table assumes that customers exercise no renewal options and all early termination rights.

Year of Lease Expiration	Number of Leases Expiring (1)	Total Raised Floor of Expiring Leases	% of Facility Leased Raised Floor	Annualized Rent (2)	% of Facility Annualized Rent
Month-to-Month (3)	91	3,164	3 %	\$ 2,722,594	4 %
2019	403	17,517	14 %	16,550,500	30 %
2020	221	26,849	22 %	11,891,709	22 %
2021	176	27,344	22 %	14,193,030	26 %
2022	24	12,858	10 %	3,090,053	6 %
2023	26	15,857	13 %	5,931,310	11 %
2024	_	· —	— %	· · · · —	— %
2025			— %		— %
2026			— %	_	— %
2027	1	20,186	16 %	701,100	1 %
After 2027	_	_	— %	_	— %
Total	942	123,775	100 %	\$ 55,080,296	100 %

⁽¹⁾ Represents each lease with a customer signed as of December 31, 2018 for which billing has commenced; a lease agreement could include multiple spaces and/or service orders and a customer could have multiple leases.

⁽²⁾ Annualized rent is presented for leases commenced as of the applicable date. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

⁽²⁾ Annualized rent is presented for leases commenced as of December 31, 2018. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time

- revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.
- (3) Consists of both customer leases whose original contract terms ended on December 31, 2018 and have yet to commence previously signed renewals as well as customers whose leases expired prior to December 31, 2018 and have continued on a month-to-month basis. We do not typically enter into month-to-month leases.

Primary Customers. The following table summarizes information regarding primary customers, which are customers occupying 10% or more of the leased raised floor of the Atlanta-Suwanee facility, as of December 31, 2018:

Principal Customer Industry	Weighted Average Remaining Lease Term (Months) (1)	Renewal Option	Ann	ualized Rent (2)	% of Facility Annualized Rent
Network	105	2x5 years	\$	701,100	1 %
Cloud & IT Services	47	2x5 years		5,120,545	9 %
Financial Services	23	2x5 years		3,080,904	6 %

⁽¹⁾ Weighted average based on customer's percentage of total annualized rent expiring as of December 31, 2018.

Historical Percentage Leased and Annualized Rental Rates. The following table sets forth the leasable raised floor, percentage leased, annualized rent and annualized rent per leased raised square foot for the Atlanta-Suwanee facility:

		Ann	ualized Rent			
	Facility Leasable	and	Annualized	p	er Leased	
Date	Raised Floor	Billing (1)	 Rent (2)	Square Foot		
December 31, 2018	134,684	92 %	\$ 55,080,296	\$	445	
December 31, 2017	135,544	92 %	56,998,497		459	
December 31, 2016	138,722	80 %	59,206,902		537	
December 31, 2015	117,013	84 %	56,769,086		576	
December 31, 2014	116,936	78 %	49,061,619		542	

⁽¹⁾ Calculated as data center raised floor that is subject to a signed lease for which billing has commenced as of the applicable date, divided by leasable raised floor based on the then current configuration of the property, expressed as a percentage.

Irving

We purchased our Irving facility in February 2013. Prior to our purchase, the facility was operated as a semiconductor fabrication facility. Similar to our Richmond facility, the Irving facility has significant pre-existing infrastructure. Specifically, the Irving facility has diverse feeds of 140 MW of utility power and approximately 698,000 gross square feet on 39 acres. We are the fee simple owner of the Irving facility.

We acquired our Irving facility because we believe that we will be able to execute a redevelopment strategy similar to our Richmond facility. Given the infrastructure that was already in place due to its former use as a semiconductor fabrication facility, we believe that the incremental costs to redevelop data center raised floor space in this facility will be lower compared to typical costs for ground-up development or redevelopments of other building types. In addition, the access to a significant amount of utility power provides the necessary power capacity to support our growth strategy for our Irving data center. Furthermore, we believe that the Dallas market is an important data center market primarily due to its strong business environment and relatively affordable power costs.

⁽²⁾ Annualized rent is presented for leases commenced as of December 31, 2018. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

⁽²⁾ Annualized rent is presented for leases commenced as of the applicable date. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

The Irving facility is included in our development pipeline, as we continue to convert the entire facility into an operating data center in multiple phases. We placed approximately 69,000 raised floor NRSF and 25,000 raised floor NRSF into service during the years ended December 31, 2016 and 2017, respectively. During the year ended December 31, 2018, we placed approximately 26,000 raised floor NRSF into service. Our current under construction redevelopment plans call for the addition of up to approximately 62,000 total operating NRSF, including approximately 25,000 NRSF of raised floor. We anticipate that this expansion will cost (in addition to costs already incurred as of December 31, 2018) approximately \$11 million in the aggregate based on current estimates. Longer term, we can further expand the facility by approximately 247,000 total NRSF, of which approximately 77,000 NRSF would be raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 669,000 total operating NRSF, including approximately 276,000 NRSF of raised floor.

We own sufficient undeveloped land on the site, approximately 29 acres, that we believe could also be developed to provide an additional 1.3 million total operating NRSF, of which approximately 680,000 NRSF would be raised floor. These 29 acres of undeveloped land are not included in our current development plans.

As of December 31, 2018, the facility was approximately 95% occupied by 119 customers.

Lease Expirations. The following table sets forth a summary schedule of the lease expirations for leases in place as of December 31, 2018 at the Irving facility. Unless otherwise stated in the footnotes, the information set forth in the table assumes that customers exercise no renewal options and all early termination rights.

Year of Lease Expiration	Number of Leases Expiring (1)	Total Raised Floor of Expiring Leases	% of Facility Leased Raised Floor	Annualized Rent (2)	% of Facility Annualized Rent
Month-to-Month (3)	41	1,213	1 %	\$ 925,668	2 %
2019	171	4,707	3 %	5,345,300	11 %
2020	198	4,804	3 %	4,556,972	9 %
2021	110	4,634	3 %	2,726,808	5 %
2022	47	73,793	47 %	19,622,351	39 %
2023	32	12,392	8 %	2,654,837	5 %
2024	8	47,705	30 %	13,232,443	26 %
2025	9	7,537	5 %	1,601,830	3 %
After 2025	_	· —	— %	-	— %
Total	616	156,785	100 %	\$ 50,666,209	100 %

⁽¹⁾ Represents each lease with a customer signed as of December 31, 2018 for which billing has commenced; a lease agreement could include multiple spaces and/or service orders and a customer could have multiple leases.

⁽²⁾ Annualized rent is presented for leases commenced as of December 31, 2018. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

⁽³⁾ Consists of both customer leases whose original contract terms ended on December 31, 2018 and have yet to commence previously signed renewals as well as customers whose leases expired prior to December 31, 2018 and have continued on a month-to-month basis. We do not typically enter into month-to-month leases.

Primary Customers. The following table summarizes information regarding primary customers, which are customers occupying 10% or more of the leased raised floor of the Irving facility, as of December 31, 2018:

	Remaining Lease	Renewal			% of Facility
Principal Customer Industry	Term (Months) (1)	Option	An	nualized Rent (2)	Annualized Rent
Cloud & IT Services	39	2x5years	\$	18,337,655	36 %
Cloud & IT Services	69	2x5years		13,255,255	26 %

(1) Weighted average based on customer's percentage of total annualized rent expiring as of December 31, 2018.

Historical Percentage Leased and Annualized Rental Rates. The following table sets forth the leasable raised floor, percentage leased, annualized rent and annualized rent per leased raised square foot for the Irving facility:

Date	Facility Leasable Raised Floor	% Occupied and Billing (1)	Annualized Rent (2)	Annualized Rent per Leased Square Foot		
December 31, 2018	165,518	95 %	\$ 50,666,209	\$	323	
December 31, 2017	138,307	96 %	43,876,400		331	
December 31, 2016	120,776	97 %	29,318,582		251	
December 31, 2015	47,722	90 %	9,133,696		213	
December 31, 2014	24,530	99 %	2,578,332		107	

(1) Calculated as data center raised floor that is subject to a signed lease for which billing has commenced as of the applicable date, divided by leasable raised floor based on the then current configuration of the property, expressed as a percentage.

Below is a description of our other properties.

Richmond

Our Richmond, Virginia data center is situated on an approximately 220-acre site comprised of three large buildings available for data center redevelopment, each with two to three floors, and an administrative building that also has space available for data center redevelopment. As of December 31, 2018, the data center had approximately 1.3 million gross square feet with approximately 397,000 total operating NRSF, including approximately 167,000 of raised floor operating NRSF. Dominion Virginia Power supplies 110 MW of utility power to the facility, which is backed up by diesel generators. As of December 31, 2018, one of these primary buildings was fully operational as a data center, another was partially operational, and the third was being redeveloped. We believe that our Richmond facility is situated in an ideal location due to its proximity to Washington, DC, which offers numerous sources of demand for our products including the federal government, and provides geographical diversification from the Northern Virginia data center market. There are three core segments that we believe represent the most significant opportunity for our Richmond data center: entities associated with the federal government, given the highly secured nature of this facility and its proximity to Washington, DC; regulated industries, such as financial institutions, given our investments in security and regulatory compliance; and large enterprise customers, given the large scale of this facility. Our Richmond mega data center can accommodate large and growing customers, while also accommodating colocation and cloud and managed services customers, at attractive energy costs.

We acquired our Richmond facility in 2010 through a bankruptcy process. We estimate that the former owner, a semiconductor manufacturer, had invested over \$1 billion to develop the facility prior to the bankruptcy. Because the facility operated as a semiconductor fabrication facility prior to our acquisition, it had significant pre-existing

⁽²⁾ Annualized rent is presented for leases commenced as of December 31, 2018. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

⁽²⁾ Annualized rent is presented for leases commenced as of the applicable date. We define annualized rent as MRR multiplied by 12. We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

infrastructure, including 110 MW of utility power, approximately 25,000 tons of chiller capacity, "Class A" private office space and other related supporting infrastructure. As a result, to date the incremental cost to redevelop the facility into a data center has been lower than the typical cost of ground-up data center development or redevelopment of other types of buildings into data centers. As of December 31, 2018, the facility was approximately 74% occupied by 132 customers across our product offerings.

We are the fee simple owner of the Richmond facility.

We are not currently redeveloping significant portions the Richmond facility. Longer term, we can further expand the facility by approximately 888,000 total operating NRSF, of which approximately 390,000 NRSF would be raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 1.3 million total operating NRSF, including approximately 557,000 NRSF of raised floor.

In addition, we own approximately 111 acres of undeveloped land on the site that we estimate could be developed to provide, at a minimum, an additional approximately 2.1 million total operating NRSF, of which approximately 1.1 million NRSF would be raised floor. These 111 acres of undeveloped land are not included in our current development plans.

Chicago

Our Chicago facility, which we acquired on July 8, 2014, is the former Sun Times Press facility near downtown Chicago, Illinois. We are the fee simple owner of the Chicago facility. The facility consists of approximately 475,000 gross square feet, including approximately 46,000 raised floor operating NRSF and 24 MW of utility power to the facility and another 47 MW available upon request.

The Chicago facility is included in our development pipeline, as we plan to convert the facility into an operating data center in multiple phases. We placed approximately 14,000 raised floor NRSF and 14,000 raised floor NRSF into service during the years ended December 31, 2016 and 2017, respectively. During the year ended December 31, 2018, we placed approximately 18,000 raised floor NRSF into service. Our current under construction redevelopment plans call for the addition of up to approximately 39,000 total operating NRSF, including approximately 20,000 NRSF of raised floor. We anticipate that this expansion will cost (in addition to costs already incurred as of December 31, 2018) approximately \$10 million in the aggregate based on current estimates. Longer term, we can further expand the facility by approximately 299,000 total operating NRSF, of which approximately 150,000 would be raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 433,000 total operating NRSF with raised floor capacity of approximately 216,000 square feet.

We own sufficient undeveloped land on the site, approximately 23 acres, that we believe could also be developed to provide an additional 350,000 total operating NRSF, of which approximately 200,000 NRSF would be raised floor. These 23 acres of undeveloped land are not included in our current development plans.

As of December 31, 2018, the facility was approximately 78% occupied by 63 customers.

Leased Facilities Acquired in 2015

We acquired leased facilities as part of our acquisition of Carpathia Hosting, Inc. ("Carpathia") on June 16, 2015. As of December 31, 2018, these leased facilities, including those subject to capital leases, consisted of five domestic data centers located in Phoenix, Arizona; San Jose, California; Secaucus, New Jersey and Ashburn, Virginia; and four international data centers located in Toronto, Canada; Amsterdam, Netherlands; Hong Kong and London, United Kingdom. As of December 31, 2018, QTS is no longer leasing space at the Harrisonburg VA facility. Customers at the site were successfully migrated to other QTS owned datacenters.

These leased facilities consist of approximately 70,588 gross square feet with approximately 36,488 total operating NRSF, including approximately 31,937 raised floor operating NRSF. We are not currently redeveloping the leased facilities, we have no current plans to further build out or expand any of these leased facilities.

As of December 31, 2018, the facilities were approximately 89% occupied by 66 customers. The majority of the customers at these facilities are cloud and managed services customers which lease small amounts of space.

Santa Clara

Our Santa Clara, California facility was acquired in November 2007. The facility, which is owned subject to a long-term ground sublease as described below, consists of two buildings containing approximately 135,000 gross square feet with approximately 102,000 total operating NRSF, including approximately 56,000 raised floor operating NRSF. The facility is situated on a 6.5-acre site in Silicon Valley. Several Silicon Valley Power substations supply 11 MW of utility power to the facility, which is backed up by diesel generators. We believe that Silicon Valley is an ideal data center location due to the large concentration of technology companies and the high local demand for data centers and cloud and managed services.

As of December 31, 2018, the facility was approximately 78% occupied by 82 customers.

Portions of the Santa Clara facility are included in our development pipeline. Our current under construction redevelopment plans call for the addition of up to approximately 4,000 total operating NRSF, all of which is raised floor. We anticipate that this expansion will cost (in addition to costs already incurred as of December 31, 2018) approximately \$8 million in the aggregate based on current estimates. Longer term, we can expand the facility by approximately 21,000 total raised floor NRSF. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 131,000 total operating NRSF, including approximately 81,000 NRSF of raised floor.

The Santa Clara facility is subject to a ground lease. We acquired a ground sublease interest in the land on which the Santa Clara facility is located in November 2007. The ground sublease expires in 2052, subject to two 10-year extension options. The annual rent payable under the ground sublease increases annually by the lesser of 6% or the increase in the Consumer Price Index for the San Francisco Bay area. In addition, in 2018 and 2038, the monthly rent will be adjusted to equal one-twelfth of an amount equal to 8.5% of the product of (i) the then fair market value of the demised premises (without taking into account the value of the improvements existing on the land) calculated on a per square foot basis, and (ii) the net square footage of the demised premises. The Company is currently in negotiations to determine the monthly rent payments based on the 2018 fair market value assessment. During the term of the ground lease, we have certain obligations to facilitate the provision of job training, seminars and research opportunities for students of a community college that is adjacent to the property. We are the indirect holder of this ground sublease.

Sacramento

Our Sacramento, California facility, which we acquired in December 2012, is located 120 miles from our Santa Clara facility on a 6.8-acre site. The facility currently consists of approximately 93,000 gross square feet with approximately 81,000 total operating NRSF, including approximately 55,000 raised floor operating NRSF. The Sacramento Municipal Utility District supplies 8 MW of utility power to the facility, which is backed up by diesel generators. The facility is an institutional grade data center with a classic "N+1" design that provides a single extra uninterruptible power supply module for use in the event of a system failure. This facility will provide our regional customer base with business continuity services along with cloud and managed services. We believe the property's location is a valuable complement to our Santa Clara facility for our customers, as it will allow them to diversify their footprint in the California market with a single provider. We intend to leverage our existing West Coast regional team and our cloud and managed services sales and support staff to cater to customers in this property, many of which already used managed services when we acquired the property.

We are not currently redeveloping significant portions the Sacramento facility.

As of December 31, 2018, the facility was approximately 47% occupied by 133 customers. The majority of the customers at this facility are colocation customers which lease small amounts of space. We are the fee simple owner of the Sacramento facility.

Miami

Our Miami, Florida facility currently consists of approximately 30,000 gross square feet with approximately 26,000 total operating NRSF, including 20,000 raised floor operating NRSF. The property sits on a 1.6-acre site located at Dolphin Center with 4 MW of utility power supplied by Florida Power & Light and backed up by diesel generators. With a wind rating of 185 miles-per-hour, the facility is built to withstand a Category 5 hurricane. Miami is a strategic location for us because it is a gateway to the South American financial markets and a transcontinental Internet hub. The Miami facility

was under development when we acquired it in April 2008, and we completed the build-out in August 2008. Other than normally recurring capital expenditures, we have no current plans to further build-out or expand the Miami facility.

As of December 31, 2018, the facility was approximately 69% occupied by 93 customers. We intend to continue to lease-up this property. We are the fee simple owner of the Miami facility.

Jersey City

Our Jersey City, New Jersey facility is a leased facility that consists of approximately 122,000 gross square feet with approximately 88,000 total operating NRSF, including approximately 32,000 raised floor operating NRSF. The Jersey City facility was originally leased by another party in March 2004 and we acquired the lease in October 2006 when we acquired the lessee. The lease expires in September 2026 and is subject to one five-year extension option. The facility was redeveloped in November 2006, and we subsequently leased it to service customers in New Jersey and New York. The facility is comprised of four floors of a 19 story building located on one city block in the metropolitan New York City area, six miles from Manhattan. PSE&G supplies 7 MW of utility power to the facility, which is backed up by diesel generators. The facility also contains a small amount of "Class A" office space. We believe that the location in Jersey City provides us with a crucial presence in the tri-state area, where space is highly coveted given the strong demand from financial services firms.

We are not currently redeveloping significant portions of the Jersey City facility. Longer term, we can further expand the facility by approximately 21,000 NRSF of raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 109,000 total operating NRSF, including approximately 53,000 NRSF of raised floor.

As of December 31, 2018, the facility was approximately 77% occupied by 49 customers.

Princeton

Our Princeton, New Jersey facility, which we acquired on June 30, 2014, is located on approximately 194 acres and consists of approximately 554,000 gross square feet, including approximately 58,000 square feet of raised floor, and 22 MW of available utility power. Concurrently with acquiring this data center we entered into a 10 year lease for the facility's 58,000 square feet of raised floor with Atos, an international information technology services company headquartered in Bezos, France. The lease includes a 15 year renewal at the option of Atos.

We are not currently redeveloping significant portions of the Princeton facility. Longer term, we can expand the facility by approximately 372,000 total operating NRSF, of which approximately 100,000 NRSF would be raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 544,000 total operating NRSF, including approximately 158,000 NRSF of raised floor.

As of December 31, 2018, the facility was approximately 100% occupied by 1 customer.

Piscataway

Our Piscataway, New Jersey facility, which we acquired on June 6, 2016, currently consists of approximately 360,000 gross square feet with approximately 213,000 total operating NRSF, including approximately 99,000 raised floor operating NRSF. The property is located on a 38-acre campus and includes an on-site 111 MW substation as well as solar panels that produce approximately 2 MW of power.

The Piscataway facility is included in our development pipeline. During the year ended December 31, 2018, we placed approximately 10,000 NRSF of raised floor into service. Our current under construction redevelopment plans call for the addition of up to 9,000 total operating NRSF, including 5,000 NRSF of raised floor. We anticipate that this expansion will cost approximately \$1 million in the aggregate based on current estimates (in addition to costs already incurred as of December 31, 2018). Longer term, we can further expand the facility by approximately 132,000 total operating NRSF, of which approximately 72,000 would be raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 354,000 total operating NRSF, including approximately 176,000 NRSF of raised floor.

As of December 31, 2018, the facility was approximately 88% occupied by 43 customers.

Fort Worth

Our Forth Worth, Texas facility, which we acquired on December 16, 2016, is located on approximately 53 acres and consists of approximately 262,000 gross square feet, including approximately 11,000 square feet of raised floor and 50 MW of available utility power. The facility is located approximately 20 miles from our Irving, Texas data center.

The Fort Worth facility is included in our development pipeline, as we plan to convert the facility into an operating data center in multiple phases. During the year ended December 31, 2017, we placed approximately 10,000 raised floor NRSF into service. Although no raised floor NRSF was placed into service during 2018, our current under construction redevelopment plans call for the addition of up to approximately 98,000 total operating NRSF, including approximately 26,000 NRSF of raised floor. We anticipate that this expansion will cost (in addition to costs already incurred as of December 31, 2018) approximately \$91 million in the aggregate based on current estimates. Longer term, we can further expand the facility by approximately 123,000 total operating NRSF, of which approximately 43,000 would be raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 251,000 total operating NRSF, including approximately 80,000 NRSF of raised floor.

As of December 31, 2018, the facility was approximately 100% occupied by 5 customers.

Ashburn

In August 2017, we completed the acquisition of approximately 24 acres of land in Ashburn, Virginia. As of December 31, 2018, we in serviced a portion of the facility while we continue to develop a mega data center facility on the acquired land parcel. Ultimately, we believe the 24 acre parcel of land can support approximately 50 megawatts of available utility power, 445,000 gross square feet and 178,000 square feet of raised floor capacity upon completion.

The Ashburn facility is included in our development pipeline, as we plan to expand the mega data center in multiple phases. The first phase was complete in mid-2018 as we placed approximately 14,000 raised floor NRSF into service. Our current under construction development plans call for up to approximately 85,000 total operating NRSF, including approximately 32,000 NRSF of raised floor. We anticipate that this expansion will cost (in addition to costs already incurred as of December 31, 2018) approximately \$10 million in the aggregate based on current estimates. Longer term, we can further expand the facility by approximately 316,000 total operating NRSF, of which approximately 132,000 would be raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 445,000 gross square feet, including approximately 178,000 NRSF of raised floor.

In addition, in October 2017, we completed the acquisition of approximately 28 acres of land in Ashburn, Virginia, that we believe could also be developed to provide an additional 2 million total operating NRSF, of which approximately 1 million NRSF would be raised floor. These 28 acres of undeveloped land are not included in our current development plans or property table.

As of December 31, 2018, the facility was approximately 100% occupied by 5 customers.

Dulles

Our Vault facility in Dulles, Virginia consists of approximately 88,000 gross square feet, including approximately 31,000 square feet of raised floor NRSF and 13 MW of available utility power. The data center was built from the ground up to stringent Sensitive Compartmented Information Facility (SCIF) standards set by the Department of Defense and National Security Agency. The facility is located a quarter of a mile from our Ashburn data center.

We acquired the Dulles, Virginia facility as part of our acquisition of Carpathia on June 16, 2015. From the Carpathia acquisition date through October 5, 2017, the facility was subject to a lease financing obligation. On October 6, 2017, the Company completed the buyout of the Dulles facility. At the time of the Dulles facility purchase the lease financing obligation was approximately \$17.8 million and the Company purchased the property for approximately \$34.1 million cash, for a net purchase price of \$16.3 million.

The Dulles facility is included in our development pipeline. Longer term, we can further expand the facility by approximately 18,000 NRSF of raised floor. Upon completion of the build-out of the facility, we anticipate that the facility would contain approximately 87,000 total operating NRSF, including approximately 48,000 NRSF of raised floor.

As of December 31, 2018, the facility was approximately 62% occupied by 91 customers.

Phoenix

In July 2017, we completed the acquisition of approximately 84 acres of land in Phoenix, Arizona to be used for future development.

Hillsboro

In October 2017, we completed the acquisition of approximately 92 acres of land in Hillsboro, Oregon to be used for future development.

Manassas

In March 2018, the Company completed the acquisition of approximately 61 acres of land in Manassas, Virginia. The land is currently being used to support the construction of a data center, which the Company completed and delivered Phase 1 in the first quarter of 2019. Additionally, during the three months ended September 30, 2018, the Company completed the acquisition of approximately 57 acres of additional land in Manassas, Virginia to be used for future development which is adjacent to the aforementioned 61 acres of land in Manassas.

On February 22, 2019, the Company entered into a joint venture with Alinda, a premier infrastructure investment firm, with respect to our Manassas data center. At closing, the Company contributed cash and the Manassas data center, and Alinda contributed cash, in each case in exchange for a 50% interest in the joint venture (which includes a 50% interest in future income). Under the joint venture agreement, the Company will serve as the venture's operating member, subject to authority and oversight of a board appointed by us and Alinda, and separately the Company will serve as manager and developer of the facility in exchange for management and development fees. The joint venture agreement includes various transfer restrictions and rights of first offer that will allow the Company to repurchase Alinda's interest should Alinda wish to exit in the future. In addition, the Company has agreed to provide Alinda an opportunity to invest in future similar joint ventures based on similar terms and a comparable capitalization rate. This joint venture will be reflected as an unconsolidated joint venture on our reported financial statements beginning in the first quarter of 2019. See "Management's Discussion and Analysis of Financial Condition and Results of Operations—Factors That May Influence Future Results of Operations and Cash Flows—Joint Ventures."

Overland Park

The Overland Park, Kansas facility, known as the J. Williams Technology Center, is a leased facility consisting of approximately 33,000 gross square feet, with approximately 8,000 total operating NRSF, including approximately 2,500 raised floor operating NRSF. The property is located in the Kansas City, Missouri metropolitan area. Kansas City Power & Light supplies approximately 1 MW of utility power, which is backed up by a diesel generator. The J. Williams Technology Center has housed the corporate headquarters of the Quality Group of Companies, LLC. ("QGC") since September 2003. We lease the facility under a lease with an entity controlled by our Chairman and Chief Executive Officer, which was entered into in January 2009 and expires in December 2023. This building, while containing a small data center, is primarily utilized as our corporate headquarters. Other than normally recurring capital expenditures and expansion of our own office space at our headquarters, we have no current plans to further build-out or expand the raised floor at our Overland Park data center.

As of December 31, 2018, the facility was approximately 55% occupied by 11 customers.

Lenexa

Our Lenexa, Kansas property is an approximately 35,000 gross square foot facility located in the Kansas City, Missouri metropolitan area. The property was acquired in 2004. The Lenexa property does not currently operate as a data center,

nor do we intend to operate it as a data center. We have historically used this property primarily as a warehouse, but currently lease approximately 22,000 square feet to a tenant for general office use, and 12,205 square feet to a tenant as general office and warehouse space. Other than minimal normally recurring capital expenditures, we have no current plans to further build out or expand the Lenexa property.

Duluth, Georgia

On December 30, 2015, we purchased an office building in Duluth, Georgia for \$3.8 million. This building is primarily used as additional office space for our operational headquarters.

ITEM 3. LEGAL PROCEEDINGS

In the ordinary course of our business, we are subject to claims for negligence and other claims and administrative proceedings, none of which we believe are material or would be expected to have, individually or in the aggregate, a material adverse effect on us. For additional information with respect to current legal proceedings, refer to Item 8 – Note 9 – Commitments and Contingencies in "Financial Statements and Supplementary Data" included in this Annual Report.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

QTS's common stock is listed on the New York Stock Exchange ("NYSE") and trade under the symbol "QTS." As of February 22, 2019, we had 25 holders of record of our common stock. This figure does not reflect the beneficial ownership of shares held in nominee name.

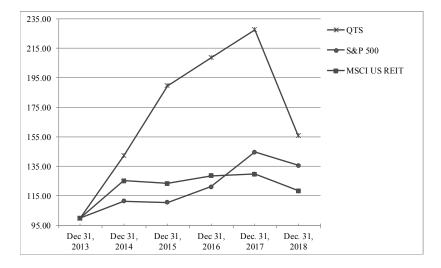
QTS also has 128,408 shares of Class B common stock outstanding, which are not listed on any exchange. The Class B common stock is held by one registered holder, Chad L. Williams, our Chairman and Chief Executive Officer.

There is no established public trading market for the Operating Partnership's limited partnership units. As of February 22, 2019, the Operating Partnership had 25 holders of record of its Class A units.

Performance Graph

The following line graph sets forth, for the period from December 31, 2013, through December 31, 2018, a comparison of the percentage change in the cumulative total stockholder return on our common stock compared to the cumulative total return of the S&P 500 Market Index and the MSCI US REIT Index ("RMZ"). The graph assumes that \$100 was invested on December 31, 2013, in shares of our common stock and each of the aforementioned indices and that all

dividends were reinvested without the payment of any commissions. There can be no assurance that the performance of our shares will continue in line with the same or similar trends depicted in the graph below.



Pricing Date	QTS	 S&P 500	MSCI US REIT		
Dec. 31, 2013.	\$ 100.00	\$ 100.00	\$	100.00	
Dec. 31, 2014	142.18	111.39		125.28	
Dec. 31, 2015	189.54	110.58		123.39	
Dec. 31, 2016	208.61	121.13		128.61	
Dec. 31, 2017	227.56	144.65		129.71	
Dec. 31, 2018	155.67	135.63		118.50	

This performance graph shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended, or incorporated by reference into any filing by us under the Securities Act of 1933, as amended, or the Securities Exchange Act, except as shall be expressly set forth by specific reference in such filing.

Unregistered Sales of Equity Securities

QTS did not sell any equity securities during the fiscal year ended December 31, 2018 that were not registered under the Securities Act of 1933, as amended.

QTS from time to time issues shares of Class A common stock pursuant to the QTS Realty Trust, Inc. 2013 Equity Incentive Plan (the "2013 Equity Incentive Plan") upon exercise of stock options issued and issuance of restricted stock under the 2013 Equity Incentive Plan, upon redemption of Class A units of limited partnership of the Operating Partnership (either through Class A units previously held or those received from conversion of Class O units from the QualityTech, LP 2010 Equity Incentive Plan) and under the ATM Program. Pursuant to the partnership agreement of the Operating Partnership, each time QTS issues shares of common stock, the Operating Partnership issues to QTS, its general partner, an equal number of Class A units. The units issued to QTS are not registered under the Securities Act in reliance on Section 4(a)(2) of the Securities Act due to the fact that Class A units were issued only to QTS and therefore, did not involve a public offering. During the year ended December 31, 2018, the Operating Partnership issued approximately 522,000 Class A units to QTS in connection with Class A unit redemptions and stock option exercises and issuances pursuant to the 2013 Equity Incentive Plan, with a value aggregating approximately \$16.4 million based on the respective dates of the redemptions and option exercises, as applicable. In addition, during the year ended December 31, 2018, the Operating Partnership issued 4,280,000 Series A Preferred Units to the Company and 3,162,500 Series B Preferred Units to the Company, which have economic terms that are substantially similar to the Company's Series A Preferred Stock and Series B Preferred Stock. These units issued to QTS are not registered under the Securities Act in reliance on Section 4(a)(2) of the Securities Act due to the fact that Series A Preferred Units and Series B Preferred Units were issued only to QTS and therefore, did not involve a public offering. The Series A Preferred Units and Series B Preferred Units were issued in exchange for the Company's contribution of the net offering proceeds of the offering of the Series A Preferred Stock to the Operating Partnership and Series B Preferred Stock to the Operating Partnership.

The Operating Partnership also issues Class A units upon the conversion of Class O units of the Operating Partnership. During the year ended December 31, 2018, the Operating Partnership issued approximately 0.5 million Class A units to holders of Class O units. These Class A units were not registered under the Securities Act in reliance on Section 4(a)(2) of the Securities Act due to the fact that Class A units were issued only to the respective holders of Class O units at the time of conversion and did not involve a public offering.

Repurchases of Equity Securities

During the year ended December 31, 2018, certain of our employees surrendered Class A common stock owned by them to satisfy their statutory minimum federal and state tax obligations in connection with the vesting of restricted common stock under the 2013 Equity Incentive Plan.

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The following table summarizes all of these repurchases during the year ended December 31, 2018.

Period Period	Total number of shares purchased (1)	erage price paid per share	Total number of shares purchased as part of publicly announced plans or programs	Maximum number of shares that may yet be purchased under the plans or programs
January 1, 2018 through January 31, 2018		\$ N/A	N/A	N/A
February 1, 2018 through February 28, 2018		N/A	N/A	N/A
March 1, 2018 through March 31, 2018	24,752	35.03	N/A	N/A
April 1, 2018 through April 30, 2018	2,174	35.94	N/A	N/A
May 1, 2018 through May 31, 2018		N/A	N/A	N/A
June 1, 2018 through June 30, 2018	7,289	39.50	N/A	N/A
July 1, 2018 through July 31, 2018	30	40.29	N/A	N/A
August 1, 2018 through August 31, 2018		N/A	N/A	N/A
September 1, 2018 through September 30, 2018.	5,949	41.44	N/A	N/A
October 1, 2018 through October 31, 2018		N/A	N/A	N/A
November 1, 2018 through November 30, 2018.	9,805	39.69	N/A	N/A
December 1, 2018 through December 31, 2018	9,169	36.53	N/A	N/A
Total	59,168	\$ 37.27	N/A	N/A

⁽¹⁾ The number of shares purchased represents shares of Class A common stock surrendered by certain of our employees to satisfy federal and state tax obligations associated with the vesting of restricted common stock. With respect to these shares, the price paid per share is based on the closing price of our Class A common stock as of the date of the determination of the statutory minimum federal income tax.

ITEM 6. SELECTED FINANCIAL DATA

The following table sets forth selected financial data on a historical basis for QTS and the Operating Partnership, which is also our historical predecessor. QTS is the sole general partner and majority owner of the Operating Partnership and as of December 31, 2018, QTS owned an approximate 88.5% ownership interest in the Operating Partnership. Substantially all of our assets are held by, and our operations are conducted through, the Operating Partnership.

The financial data as of years ended December 31, 2018, 2017, 2016, 2015 and 2014 and for the period from January 1, 2014 through December 31, 2018 is that of QTS and its majority-owned subsidiaries, which includes the Operating Partnership.

The information set forth below should be read in conjunction with "Management's Discussion and Analysis of Financial Condition and Results of Operations" and the consolidated financial statements and the notes thereto which are included elsewhere in this Form 10-K. The data for QTS and the Operating Partnership are substantially the same with the primary differences being the presentation of stockholders' equity and partners' capital, and the allocation of net income (loss), whereby QTS retains its share of the net income (loss) based on its ownership of the Operating Partnership, with the remaining balance being retained by the Operating Partnership. Therefore, the financial and

operating data presented in the following tables reflect the results of the Operating Partnership for all periods presented, except where specifically noted.

	Year Ended December 31,											
(\$ in thousands, except share and per share data)	_	2018		2017		2016		2015		2014		
Statement of Operations Data												
Revenues:												
Rental	\$	360,828	\$	335,819	\$	295,723	\$	230,510	\$	175,649		
Recoveries from customers		45,386		37,886		29,271		22,581		19,194		
Cloud and managed services		35,712		65,466		68,488		51,994		20,231		
Other		8,598		7,339		8,881		5,998		2,715		
Total revenue	_	450,524	_	446,510	_	402,363	_	311,083		217,789		
Operating expenses												
Property operating costs		148,236		153,209		136,488		104,355		71,518		
Real estate taxes and insurance		12,193		11,959		8,840		5,869		5,116		
Depreciation and amortization		149,891		140,924		124,786		85,811		58,282		
General and administrative		80,857		87,231		83,286		67,783		45,283		
Transaction, integration and impairment costs		2,743		11,060		10,906		11,282		2,316		
Restructuring		37,943										
Total operating expenses	_	431,863	_	404,383		364,306	_	275,100		182,515		
Operating income		18,661		42,127		38,057		35,983		35,274		
Other income and expense:												
Interest income		150		67		3		2		8		
Interest expense		(28,749)		(30,523)		(23,159)		(21,289)		(15,308)		
Debt restructuring costs		(605)		(19,992)		(192)		(468)		(871)		
Income (loss) before taxes and gain (loss) on sale												
of real estate		(10,543)		(8,321)		14,709		14,228		19,103		
Tax benefit of taxable REIT subsidiaries		3,368		9,778		9,976		10,065		_		
Loss on sale of real estate								(164)				
Net income (loss)		(7,175)		1,457		24,685		24,129		19,103		
Net (income) loss attributable to noncontrolling												
interests		2,715		(175)		(3,160)		(3,803)		(4,031)		
Net income (loss) attributable to QTS Realty Trust,												
Inc	\$	(4,460)	\$	1,282	\$	21,525	\$	20,326	\$	15,072		
Preferred stock dividends		(16,666)										
Net income (loss) attributable to common												
stockholders	\$	(21,126)	\$	1,282	\$	21,525	\$	20,326	\$	15,072		
Net income (loss) per share attributable to common shares:												
Basic	\$	(0.44)	\$	0.01	\$	0.47	\$	0.54	\$	0.52		
Diluted		(0.44)		0.01		0.46		0.53		0.51		
Weighted average common shares outstanding:												
Basic		50,432,590		48,380,964		46,205,937		37,568,109		29,054,576		
Diluted		50,432,590		55,855,683		53,962,234		45,353,170		37,133,584		
Dividends declared per common share	\$	1.64	\$	1.56	\$	1.44	\$	1.28	\$	1.16		

	The Company Year Ended December 31,											
Od Day Care	_	2010		2014								
Other Data (unaudited)	2018			2017	_	2016	-	2015	-	2014		
FFO ⁽¹⁾	\$	128,944	\$	125,012	\$	133,159	\$	98,517	\$	70,958		
Operating FFO ⁽¹⁾		151,161		156,064		140,666		103,916		74,145		
Recognized MRR in the period		375,515		375,086		347,331		269,783		188,194		
MRR at period end (2)		31,141		31,708		30,890		27,489		17,141		
NOI (3)		290,095		281,342		257,036		200,859		141,155		
EBITDAre (4)	183,783			163,059		162,651		121,162		92,685		
Adjusted EBITDA (4)		224,210		207,974		184,334		140,040	100,025			
					Th	e Company						
					December 31,							
(\$ in thousands)		2018		2017		2016		2015		2014		
Balance Sheet Data		<u> </u>										
Real estate at cost *	\$	2,812,856	\$	2,357,322	\$	1,964,857	\$	1,583,153	\$	1,177,582		
Net investment in real estate **		2,345,212		1,962,499		1,647,023		1,343,217		997,415		
Total assets		2,861,969		2,415,056		2,086,470		1,747,339		1,106,559		
Total debt		1,345,117		1,229,929		965,826		861,569		637,229		

Reflects undepreciated cost of real estate assets, and does not include real estate intangible assets acquired in connection with acquisitions.

** Net investment in real estate includes building and improvements (net of accumulated depreciation), land, and construction in progress.

	The Company Year Ended December 31,											
(\$ in thousands)		2018		2017		2016		2015		2014		
Cash Flow Data Cash flow provided by (used for): Operating activities Investing activities Financing activities	\$	191,273 (598,553) 410,796	\$	170,323 (434,352) 262,692	\$	153,794 (452,972) 299,954	\$	109,787 (612,095) 500,324	\$	73,757 (292,209) 224,030		

(1) We calculate FFO in accordance with the standards established by the National Association of Real Estate Investment Trusts, or NAREIT. FFO represents net income (loss) (computed in accordance with GAAP), adjusted to exclude gains (or losses) from sales of property, real estate-related depreciation and amortization and similar adjustments for unconsolidated partnerships and joint ventures. Our management uses FFO as a supplemental performance measure because, in excluding real estate-related depreciation and amortization and gains and losses from property dispositions, it provides a performance measure that, when compared year over year, captures trends in occupancy rates, rental rates and operating costs. We generally calculate Operating FFO as FFO excluding certain non-routine charges and gains and losses that management believes are not indicative of the results of our operating real estate portfolio. We believe that Operating FFO provides investors with another financial measure that may facilitate comparisons of operating performance between periods and, to the extent other REITs calculate Operating FFO on a comparable basis, between REITs.

A reconciliation of net income (loss) to FFO and Operating FFO is presented below:

	Year Ended December 31,									
(unaudited \$ in thousands)		2018		2017		2016		2015		2014
FFO										
Net income (loss)	\$	(7,175)	\$	1,457	\$	24,685	\$	24,129	\$	19,103
Real estate depreciation and amortization		136,119		123,555		108,474		74,224		51,855
Loss on sale of real estate		_		_				164		_
FFO		128,944		125,012		133,159		98,517		70,958
Preferred stock dividends		(16,666)		_				_		_
FFO available to common stockholders & OP unit										
holders		112,278		125,012		133,159		98,517		70,958
Debt restructuring costs		605		19,992		193		468		871
Restructuring costs		37,943		_				_		_
Transaction, integration and impairment costs		2,743		11,060		10,906		11,282		2,316
Deferred tax benefit associated with transaction and										
integration costs		(2,408)		_		(3,592)		(3,176)		_
Non-cash reversal of deferred tax asset valuation allowance								(3,175)		
Operating FFO available to common stockholders &										
OP unit holders	\$	151,161	\$	156,064	\$	140,666	\$	103,916	\$	74,145

(2) We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. This amount reflects the annualized cash rental payments. It does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements. Management uses MRR and recognized MRR as supplemental performance measures because they provide useful measures of increases in contractual revenue from our customer leases.

A reconciliation of total GAAP revenues to recognized MRR in the period and MRR at period-end is presented below:

	Year Ended December 31,												
(unaudited \$ in thousands)	2018		2017		2016		2015		2014				
Recognized MRR in the period													
Total period revenues (GAAP basis)	\$ 450,524	\$	446,510	\$	402,363	\$	311,083	\$	217,789				
Less: Total period recoveries	(45,386)		(37,886)		(29,271)		(22,581)		(19,194)				
Total period deferred setup fees	(12,475)		(10,690)		(9,172)		(6,042)		(4,709)				
Total period straight line rent and other	(17,148)		(22,848)		(16,589)		(12,677)		(5,692)				
Recognized MRR in the period	\$ 375,515	\$	375,086	\$	347,331	\$	269,783	\$	188,194				
MRR at period end*													
Total period revenues (GAAP basis)	\$ 450,524	\$	446,510	\$	402,363	\$	311,083	\$	217,789				
Less: Total revenues excluding last month	(412,041)		(406,345)		(366,385)		(280,020)		(197,831)				
Total revenues for last month of period	38,483		40,165		35,978		31,063		19,958				
Less: Last month recoveries	(3,822)		(3,175)		(3,247)		(1,415)		(1,908)				
Last month deferred setup fees	(1,015)		(1,123)		(968)		(716)		(372)				
Last month straight line rent and other	(2,505)		(4,159)		(873)		(1,443)		(537)				
MRR at period end*	\$ 31,141	\$	31,708	\$	30,890	\$	27,489	\$	17,141				

^{*} Does not include our booked-not-billed MRR balance, which was \$5.2 million, \$3.9 million, \$3.6 million, \$4.8 million and \$2.3 million as of years ended December 31, 2018, 2017, 2016, 2015 and 2014, respectively.

⁽³⁾ We calculate net operating income, or NOI, as net income (loss) (computed in accordance with GAAP), excluding: interest expense, interest income, tax expense (benefit) of taxable REIT subsidiaries, depreciation and amortization, write off of unamortized deferred financing, debt restructuring costs, gain (loss) on extinguishment of debt, transaction, integration and impairment costs, gain (loss) on sale of real estate, restructuring costs and general and administrative expenses. Management uses NOI as a supplemental performance measure because it provides a useful measure of the operating results from our customer leases. In addition, we believe it is useful to investors in evaluating and comparing the operating performance of our properties and to compute the fair value of our properties.

A reconciliation of net income (loss) to NOI is presented below:

	Year Ended December 31,												
(unaudited \$ in thousands)		2018		2017		2016	2015			2014			
Net Operating Income (NOI)													
Net income (loss)	\$	(7,175)	\$	1,457	\$	24,685	\$	24,129	\$	19,103			
Interest income		(150)		(67)		(3)		(2)		(8)			
Interest expense		28,749		30,523		23,159		21,289		15,308			
Depreciation and amortization		149,891		140,924		124,786		85,811		58,282			
Debt restructuring costs		605		19,992		193		468		871			
Tax benefit of taxable REIT subsidiaries		(3,368)		(9,778)		(9,976)		(10,065)		_			
Transaction, integration and impairment costs		2,743		11,060		10,906		11,282		2,316			
Loss on sale of real estate		_		_		_		164		_			
General and administrative expenses		80,857		87,231		83,286		67,783		45,283			
Restructuring		37,943											
NOI	\$	290,095	\$	281,342	\$	257,036	\$	200,859	\$	141,155			
Breakdown of NOI by facility:													
Atlanta-Metro data center	\$	87,060	\$	80,648	\$	81,074	\$	69,861	\$	60,734			
Atlanta-Suwanee data center		48,165		48,365		45,760		41,088		35,509			
Richmond data center		33,445		40,919		30,752		20,959		14,366			
Irving data center		42,621		32,870		16,608		5,547		815			
Dulles data center		16,944		21,672		19,384		10,391		_			
Leased data centers *		9,695		12,006		24,131		19,154		1,565			
Santa Clara data center		8,344		11,378		13,703		14,352		12,739			
Piscataway data center		12,266		9,395		5,627		_		_			
Princeton data center		9,729		9,598		9,544		9,461		4,828			
Sacramento data center		7,448		6,804		7,734		7,516		8,470			
Chicago data center		8,878		4,652		167		_		_			
Ashburn data center		1,250		_		_		_		_			
Fort Worth data center		902		268		3		_		_			
Other facilities **		3,348		2,767		2,549		2,530		2,129			
NOI	\$	290,095	\$	281,342	\$	257,036	\$	200,859	\$	141,155			

^{*} At December 31, 2018 includes 10 facilities. All facilities are leased, including those subject to capital leases. During the quarter ended December 31, 2018, the Company exited the Harrisonburg, VA facility.

(4) We calculate earnings before interest, taxes, depreciation and amortization for real estate ("EBITDAre") in accordance with the standards established by the National Association of Real Estate Investment Trusts ("NAREIT"). EBITDAre represents net income (loss) (computed in accordance with GAAP) adjusted to exclude gains (or losses) from sales of depreciated property, income tax expense (or benefit), interest expense, depreciation and amortization, impairments of depreciated property and unconsolidated partnerships and joint ventures, and similar adjustments for unconsolidated partnerships and joint ventures. Management uses EBITDAre as a supplemental performance measure because it provides a measure that, when compared year over year, captures the performance of our operations by removing the impact of our capital structure (primarily interest expense) and asset base charges (primarily depreciation and amortization) from our operating results.

In addition to EBITDA*re*, we calculate an adjusted measure of EBITDA, which we refer to as Adjusted EBITDA, as EBITDA excluding certain non-routine charges, write off of unamortized deferred financing costs, gains (losses) on extinguishment of debt, restructuring costs, transaction, integration and impairment costs, in addition to non-cash recurring costs such as equity-based compensation. We believe that Adjusted EBITDA provides investors with another financial measure that may facilitate comparisons of operating performance between periods and, to the extent other REITs calculated Adjusted EBITDA on a comparable basis, between REITs.

We use EBITDAre and Adjusted EBITDA as supplemental performance measures as they provide useful measures of assessing our operating results. Other companies may not calculate EBITDAre or Adjusted EBITDA in the same manner. Accordingly, our EBITDAre and Adjusted EBITDA may not be comparable to others. EBITDAre and Adjusted EBITDA should be considered only as supplements to net income (loss) as measures of our performance and should not be used as substitutes for net income (loss), as measures of our results of operations or liquidity or as an indication of funds available to meet our cash needs, including our ability to make distributions to our stockholders.

^{**} Consists of Miami, FL; Lenexa, KS; Overland Park, KS; and Duluth, GA facilities.

A reconciliation of net income (loss) to EBITDAre and Adjusted EBITDA is presented below:

	Year Ended December 31,													
(unaudited \$ in thousands)		2018		2017		2016		2015		2014				
EBITDAre		,												
Net income (loss)	\$	(7,175)	\$	1,457	\$	24,685	\$	24,129	\$	19,103				
Interest expense		28,749		30,523		23,159		21,289		15,308				
Interest income		(150)		(67)		(3)		(2)		(8)				
Tax benefit of taxable REIT subsidiaries		(3,368)		(9,778)		(9,976)		(10,065)						
Depreciation and amortization		149,891		140,924		124,786		85,811		58,282				
Loss on disposition of depreciated property and														
impairment write-downs of depreciated property.		15,836		4,219		_		_		_				
EBITDAre		183,783	_	167,278		162,651	_	121,162	_	92,685				
Adjusted EBITDA														
Debt restructuring costs		605		19,992		193		468		871				
Equity-based compensation expense		14,972		13,863		10,584		6,964		4,153				
Restructuring costs		22,107		_		_		_		_				
Transaction, integration and impairment costs		2,743		6,841		10,906		11,282		2,316				
Loss on sale of real estate								164						
Adjusted EBITDA	\$	224,210	\$	207,974	\$	184,334	\$	140,040	\$	100,025				

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For more information on our use of Non-GAAP Financial Measures see "Management's Discussion and Analysis of Financial Condition and Results of Operations-Non-GAAP Financial Measures."

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following discussion and analysis covers the financial condition and results of operations of QTS Realty Trust, Inc. You should read the following discussion and analysis in conjunction with the QTS Realty Trust, Inc.'s and QualityTech, LP's consolidated financial statements and related notes and "Risk Factors" contained elsewhere in this Form 10-K. Some of the information contained in this discussion and analysis or set forth elsewhere in this Form 10-K, including information with respect to our business and growth strategies, our expectations regarding the future performance of our business and the other non-historical statements contained herein are forward-looking statements. See "Special Note Regarding Forward-Looking Statements." This Form 10-K contains stand-alone audited and unaudited financial statements and other financial data for each of QTS and the Operating Partnership. We believe it is important to show both QTS and the Operating Partnership's financial statements and for investors to understand the few differences between them in the context of how QTS and the Operating Partnership operate as a consolidated company. See "Explanatory Note" for an explanation of these few differences.

Since the financial data presented in this Item 7 does not contain any differences between QTS and the Operating Partnership, all periods presented reflect the operating results of the Operating Partnership.

Overview

QTS is a leading provider of data center solutions to the world's largest and most sophisticated hyperscale technology companies, enterprises and government agencies. Through our technology-enabled platform, delivered across mega scale data center infrastructure, we offer a comprehensive portfolio of secure and compliant IT solutions. Our data centers are facilities that power and support our customers' IT infrastructure equipment and provide seamless access and connectivity to a range of communications and IT services providers. Across our broad footprint of strategically-located data centers, we provide flexible scalable, and secure IT solutions including data center space, power and cooling, connectivity and value-add managed services for more than 1,100 customers in the financial services, healthcare, retail, government, and technology industries. We build out our data center facilities to accommodate both multi-tenant environments (hybrid colocation) and for executed leases that require significant amounts of space and power (hyperscale), depending on the needs of each facility at that time. We believe that we own and operate one of the largest portfolios of multi-tenant data centers in the United States, as measured by gross square footage, and have the capacity to nearly double our sellable data center raised floor space without constructing or acquiring any new buildings. In addition, we own more than 650 acres of land that is available at our data center properties that provides us with the opportunity to significantly expand our capacity to further support future demand from current and new potential customers.

We operate a portfolio of 25 data centers located throughout the United States, Canada, Europe and Asia. Within the United States, our data centers are concentrated in the markets which we believe offer the highest growth opportunities. Our data centers are highly specialized, mission-critical facilities utilized by our customers to store, power and cool the server, storage, and networking equipment that support their most critical business systems and processes. We believe that our data centers are best-in-class and engineered to adhere to the highest specifications commercially available to customers, providing fully redundant, high-density power and cooling sufficient to meet the needs of the largest companies and organizations in the world. We have demonstrated a strong operating track record of "five-nines" (99.999%) reliability since QTS' inception.

QTS is a Maryland corporation formed on May 17, 2013 and is the sole general partner and majority owner of QualityTech, LP, our operating partnership (the "Operating Partnership"). Substantially all of our assets are held by, and our operations are conducted through, the Operating Partnership. QTS' Class A common stock trades on the New York Stock Exchange under the ticker symbol "QTS."

The Operating Partnership is a Delaware limited partnership formed on August 5, 2009 and was QTS' historical predecessor prior to QTS's initial public offering on October 15, 2013 (the "IPO"), having operated the Company's business until the IPO. As of December 31, 2018, QTS owned an approximate 88.5% ownership interest in the Operating Partnership.

We believe that QTS has operated and has been organized in conformity with the requirements for qualification and taxation as a REIT commencing with its taxable year ended December 31, 2013. Our qualification as a REIT, and maintenance of such qualification, depends upon our ability to meet, on a continuing basis, various complex requirements under the Internal Revenue Code of 1986, as amended (the "Code") relating to, among other things, the sources of our gross income, the composition and values of our assets, our distributions to our stockholders and the concentration of ownership of our equity shares.

On February 20, 2018, we commenced a strategic growth plan (the "Strategic Growth Plan") focused on realigning our product offerings around our hyperscale and hybrid colocation verticals while narrowing the scope of cloud and managed services products we deliver and support directly. During 2018, we successfully completed the implementation of our Strategic Growth Plan which resulted in a meaningful acceleration in our hyperscale and hybrid colocation revenue and leasing performance, enhanced overall profitability in our business and a significant improvement in the overall predictability of our business performance as measured by customer churn.

Our Customer Base

Our data center facilities are designed with the flexibility to support a diverse set of solutions and customers. Our customer base is comprised of more than 1,100 different companies of all sizes representing an array of industries, each with unique and varied business models and needs. We serve Fortune 1000 companies as well as small and medium-sized businesses, or SMBs, including financial institutions, healthcare companies, retail companies, government agencies, communications service providers, software companies and global Internet companies.

We have customers that range from large enterprise and technology companies with significant IT expertise and data center requirements, including financial institutions, "Big Four" accounting firms and the world's largest global Internet and cloud companies, to major healthcare, telecommunications and software and web-based companies.

As a result of our diverse customer base, customer concentration in our portfolio is limited. As of December 31, 2018, only five of our more than 1,100 customers individually accounted for more than 3% of our monthly recurring revenue ("MRR") (as defined below), with the largest customer accounting for approximately 12.8% of our MRR and the next largest customer accounting for only 4.9% of our MRR.

Our Portfolio

We operate 25 data centers located throughout the United States, Canada, Europe and Asia, containing an aggregate of approximately 6.2 million gross square feet of space, including approximately 2.7 million "basis-of-design" raised floor square feet (approximately 95.5% of which is wholly owned by us including our data center in Santa Clara which is subject to a long-term ground lease), which represents the total sellable data center raised floor potential of our existing data center facilities. This reflects the maximum amount of space in our existing buildings that could be leased following

full build-out, depending on the space and power configuration that we deploy. As of December 31, 2018, this space included approximately 1.5 million raised floor operating net rentable square feet, or NRSF, plus approximately 1.3 million square feet of additional raised floor in our development pipeline, of which approximately 154,000 raised floor square feet is expected to become operational by December 31, 2019. Of the total 154,000 raised floor square feet in our development pipeline that is expected to become operational by December 31, 2019, approximately 103,000 square feet was related to customer leases which had been executed as of December 31, 2018 but not yet commenced. Our facilities collectively have access to approximately 691 megawatts ("MW") of available utility power. Access to power is typically the most limiting and expensive component in developing a data center and, as such, we believe our significant access to power represents an important competitive advantage.

Key Operating Metrics

The following sets forth definitions for our key operating metrics. These metrics may differ from similar definitions used by other companies.

Monthly Recurring Revenue ("MRR"). We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. MRR does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted. MRR does not reflect any accounting associated with any free rent, rent abatements or future scheduled rent increases and also excludes operating expense and power reimbursements.

Annualized Rent. We define annualized rent as MRR multiplied by 12.

Rental Churn. We define rental churn as the MRR lost in the period from a customer intending to fully exit our platform in the near term compared to the total MRR at the beginning of the period.

Leasable Raised Floor. We define leasable raised floor as the amount of raised floor square footage that we have leased plus the available capacity of raised floor square footage that is in a leasable format as of a particular date and according to a particular product configuration. The amount of our leasable raised floor may change even without completion of new development projects due to changes in our configuration of space.

Percentage (%) **Occupied and Billing Raised Floor.** We define percentage occupied and billing raised floor as the square footage that is subject to a signed lease for which billing has commenced as of a particular date compared to leasable raised floor based on the current configuration of the properties as of that date, expressed as a percentage.

Booked-not-Billed. We define booked-not-billed as our customer leases that have been signed, but for which lease payments have not yet commenced.

Factors That May Influence Future Results of Operations and Cash Flows

Recent Accounting Pronouncements. We adopted the provisions of ASC Topic 606, *Revenue from Contracts with Customers*, effective January 1, 2018. For additional information with respect to the impact of the standard on our financial condition and results of operations, refer to Item 8 – Note 2 – Summary of Significant Accounting Policies in "Financial Statements and Supplementary Data" included in this Annual Report.

Revenue. Our revenue growth will depend on our ability to maintain the historical occupancy rates of leasable raised floor, lease currently available space, lease new capacity that becomes available as a result of our development and redevelopment activities, attract new customers and continue to meet the ongoing technological requirements of our customers. As of December 31, 2018, we had in place customer leases generating revenue for approximately 90% of our leasable raised floor. Our ability to grow revenue also will be affected by our ability to maintain or increase rental, cloud and managed services rates at our properties. Future economic downturns, regional downturns or downturns in the technology industry, new technological developments, evolving industry demands and other similar factors described above under "Risk Factors" could impair our ability to attract new customers or renew existing customers' leases on favorable terms, or at all, and could adversely affect our customers' ability to meet their obligations to us. Negative trends in one or more of these factors could adversely affect our revenue in future periods, which would impact our results of operations and cash flows. We also at times may elect to reclaim space from customers in a negotiated

transaction where we believe that we can redevelop and/or re-lease that space at higher rates, which may cause a decrease in revenue until the space is re-leased.

Leasing Arrangements. As of December 31, 2018, 43% of our MRR came from customers which individually occupied greater than or equal to 6,600 square feet of space (or approximately 1 MW of power), with the remaining 57% attributable to customers utilizing less than 6,600 square feet of space. As of December 31, 2018, approximately 50% of our MRR was attributable to the metered power model, the majority of which is comprised of customers that individually occupy greater than 6,600 square feet of space. Under the metered power model, the customer pays us a fixed monthly rent amount, plus reimbursement of certain other operating costs, including actual costs of sub-metered electricity used to power its data center equipment and an estimate of costs for electricity used to power supporting infrastructure for the data center, expressed as a factor of the customer's actual electricity usage. Fluctuations in our customers' utilization of power and the supplier pricing of power do not significantly impact our results of operations or cash flows under the metered power model. These leases generally have a minimum term of five years. As of December 31, 2018, the remaining approximately 50% of our MRR was attributable to the gross lease or managed service model. Under this model, the customer pays us a fixed amount on a monthly basis, and does not separately reimburse us for operating costs, including utilities, maintenance, repair, property taxes and insurance, as reimbursement for these costs is factored into MRR. However, if customers incur more utility costs than their leases permit, we are able to charge these customers for overages. For leases under the gross lease or managed service model, fluctuations in our customers' utilization of power and the prices our utility providers charge us will impact our results of operations and cash flows. Our leases generally have a term of three years or less.

Scheduled Lease Expirations. Our ability to minimize rental churn and customer downgrades at renewal and renew, lease and re-lease expiring space will impact our results of operations and cash flows. Leases which have commenced billing representing approximately 21% and 10% of our total leased raised floor are scheduled to expire during the years ending December 31, 2019 (including all month-to-month leases) and 2020, respectively. These leases also represented approximately 33% and 16%, respectively, of our annualized rent as of December 31, 2018. Given that our average rent for larger contracts tend to be at or below market rent at expiration, as a general matter, based on current market conditions, we expect that expiring rents will be at or below the then-current market rents.

Acquisitions, Development, and Financing. Our revenue growth also will depend on our ability to acquire and redevelop and/or construct and subsequently lease data center space at favorable rates. We generally fund the cost of data center acquisition, construction and/or redevelopment from our net cash provided by operations, revolving credit facility, other unsecured and secured borrowings or the issuance of additional equity. We believe that we have sufficient access to capital from our current cash and cash equivalents, and borrowings under our credit facilities to fund our redevelopment projects.

Joint Ventures. On February 22, 2019, we entered into a joint venture with Alinda, a premier infrastructure investment firm, with respect to our Manassas data center. At closing, we contributed cash and our Manassas data center (a 118,000 square foot hyperscale data center under development in Manassas, Virginia), and Alinda contributed cash, in each case in exchange for a 50% interest in the joint venture (which includes a 50% interest in future income). The Manassas data center, which is currently leased to a global cloud-based software company pursuant to a 10-year lease agreement, was contributed at an expected stabilized value upon completion of approximately \$240 million. At the closing, we received approximately \$53 million in net proceeds, which was comprised of the cash contributed by Alinda and also borrowings under a \$165 million secured credit facility entered into by the joint venture at closing that carries a rate of LIBOR plus 2.25%. We used these proceeds to pay down our revolving credit facility and for general corporate purposes. Under the ioint venture agreement, we will receive additional proceeds in the future as and when we complete development of each phase of the Manassas data center and place it into service, which allows us to receive proceeds for Alinda's share of the joint venture based on the expected full stabilization of the asset. These proceeds will be based on a 6.75% capitalization rate for each phase delivered during the first three years of the venture. We expect that upon full stabilization of the Manassas data center, we will have received approximately \$87 million of proceeds from the joint venture (including proceeds received at closing and which number is subject to reduction under certain circumstances), which will include proceeds from the joint venture's credit facility. We further expect that this joint venture will reduce our expected capital deployment requirements for the development of the Manassas data center by approximately \$120 million, enhance return on invested capital and drive future annual accretion to operating funds from operations per share upon stabilization of the asset. There can be no assurance that we will achieve the expected returns from the joint venture. Under the joint venture agreement, we will serve as the venture's operating member, subject to authority and oversight of a board appointed by us and Alinda, and separately we will serve as manager and developer of the facility in exchange for management and development fees. The joint venture agreement includes various transfer restrictions and rights of first offer that will allow us to repurchase Alinda's interest should Alinda wish to exit in the future. In addition, we have agreed to provide Alinda an opportunity to invest in future similar joint ventures based on similar terms and a comparable capitalization rate. The parties contemplate that Alinda may invest up to \$500 million in future similar joint ventures over the next 5 years (although it is not obligated to do so). This joint venture will be reflected as an unconsolidated joint venture on our reported financial statements beginning in the first quarter of 2019. We may enter into similar joint ventures in the future, and to the extent we do, such joint ventures could similarly impact or results of operations and cash flows based on the percentage interest we retain in such ventures and the specific economics we negotiate with our joint venture partners.

Operating Expenses. Our operating expenses generally consist of direct personnel costs, utilities, property and ad valorem taxes, insurance and site maintenance costs and rental expenses on our ground and building leases. In particular, our buildings require significant power to support the data center operations conducted in them. Although substantially all of our long-term leases—leases with a term greater than three years—contain reimbursements for certain operating expenses, we will not in all instances be reimbursed for all of the property operating expenses we incur. We also incur general and administrative expenses, including expenses relating to senior management, our in-house sales and marketing organization, cloud and managed services support personnel and legal, human resources, accounting and other expenses related to professional services. We also will incur additional expenses arising from being a publicly traded company, including employee equity-based compensation. Increases or decreases in our operating expenses will impact our results of operations and cash flows. We expect to incur additional operating expenses as we continue to expand.

General Leasing Activity

Our results were impacted by the Strategic Growth Plan as we transitioned assets, contracts and liabilities associated with our cloud and managed services products to GDT. The general leasing as well as booked-not-billed statistics below are presented on a consolidated basis and include the effects of the strategic growth plan incurred to date.

	Period	Number of Leases	Total Leased sq ft	Annualized rent per leased sq ft	sed sq ft L		Aı	Incremental nnualized Rent, Net of Downgrades
New/modified leases signed	Three Months Ended December 31, 2018	362	41,606	\$ 434	\$	18,062,604	\$	10,583,078
	Year Ended December 31, 2018	1,763	214,109	\$ 528	\$	113,110,416	\$	51,118,487
		Number of						
		Renewed	Total	Annualized rent				
	Period	Leases	Leased sq ft	per leased sq ft	A	nnualized Rent		Rent Change
Renewed Leases (1)	Three Months Ended December 31, 2018	84	50,774	\$ 292	\$	14,811,940		(6.0)%
	Year Ended December 31, 2018	288	268,180	\$ 280	\$	75,031,195		2.2 %
		Number of	Total	Annualized rent				
	Period	Leases	Leased sq ft	per leased sq ft	A	nnualized Rent		
Leases Commenced	Three Months Ended December 31, 2018	412	197,336	\$ 240	\$	47,280,192		
	Year Ended December 31, 2018	1,854	359,091	\$ 413	\$	148,439,232		

⁽¹⁾ We define renewals as leases where the customer retains the same amount of space before and after renewals, which facilitates rate comparability.

The following table outlines the Consolidated booked-not-billed ("BNB") balance as of December 31, 2018 and how that will affect revenue in 2019 and subsequent years:

Booked-not-billed ("BNB")	2019	2020		Thereafter	 Total
MRR	\$ 3,359,544	\$	893,345	\$ 965,194	\$ 5,218,083
Incremental revenue	27,577,956		7,161,955	11,582,328	
Annualized revenue	\$ 40,314,528	\$	10,720,140	\$ 11,582,328	\$ 62,616,996

The Company estimates the remaining cost to provide the space, power, connectivity and other services to the customer contracts which had not billed as of December 31, 2018 to be approximately \$72 million. This estimate generally includes customers with newly contracted space of more than 3,300 square feet of raised floor space. The space, power, connectivity and other services provided to customers that contract for smaller amounts of space is generally provided by existing space which was previously developed.

Results of Operations

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Changes in revenues and expenses for the year ended December 31, 2018 compared to the year ended December 31, 2017 are summarized below (in thousands):

	Year Ended December 31,									
	2018	2017	\$ Change	% Change						
Revenues:										
Rental	\$ 360,828	\$ 335,819	\$ 25,009	7 %						
Recoveries from customers	45,386	37,886	7,500	20 %						
Cloud and managed services	35,712	65,466	(29,754)	(45)%						
Other	8,598	7,339	1,259	17 %						
Total revenues	450,524	446,510	4,014	1 %						
Operating expenses:										
Property operating costs	148,236	153,209	(4,973)	(3)%						
Real estate taxes and insurance	12,193	11,959	234	2 %						
Depreciation and amortization	149,891	140,924	8,967	6 %						
General and administrative	80,857	87,231	(6,374)	(7)%						
Transaction, integration and impairment costs	2,743	11,060	(8,317)	(75)%						
Restructuring	37,943		37,943	* %						
Total operating expenses	431,863	404,383	27,480	7 %						
Operating income	18,661	42,127	(23,466)	(56)%						
Other income and expense:										
Interest income	150	67	83	124 %						
Interest expense	(28,749)	(30,523)	1,774	(6)%						
Debt restructuring costs	(605)	(19,992)	19,387	(97)%						
Income (loss) before taxes	(10,543)	(8,321)	(2,222)	27 %						
Tax benefit of taxable REIT subsidiaries	3,368	9,778	(6,410)	(66)%						
Net income (loss)	\$ (7,175)	\$ 1,457	\$ (8,632)	(592)%						

Revenues. Total revenues for the year ended December 31, 2018 were \$450.5 million compared to \$446.5 million for the year ended December 31, 2017. The increase of \$4.0 million, or 1%, was largely attributable to organic growth in our customer base, which was better than expected due partially to retention of colocation revenue from customers impacted by the strategic growth plan, and placing additional square footage into service in conjunction with the development and expansion of certain facilities. Facilities primarily contributing to the increase were the Irving, Chicago, Richmond, Atlanta-Suwanee and Atlanta-Metro data centers. This increase was offset by a decrease in our cloud and managed service revenue that was largely a result of our ongoing restructuring that has resulted in transition of customers to GDT and churn and downgrades associated with customers in certain product groups that were not transitioned to GDT. In addition, increased utility usage by our metered power customers increased our recoveries revenue by approximately \$7.5 million for the year ended December 31, 2018.

Property Operating Costs. Property operating costs for the year ended December 31, 2018 were \$148.2 million compared to property operating costs of \$153.2 million for the year ended December 31, 2017, a decrease of \$5.0 million, or 3%. The breakdown of our property operating costs is summarized in the table below (in thousands):

	Year Ended December 31,									
	2018	2017	\$ Change	% Change						
Property operating costs:										
Direct payroll	\$ 22,498	\$ \$ 23,107	\$ (609)	(3)%						
Rent	13,446	5 15,452	(2,006)	(13)%						
Repairs and maintenance	14,525	5 15,734	(1,209)	(8)%						
Utilities	58,598	48,311	10,287	21 %						
Management fee allocation	20,775	21,616	(841)	(4)%						
Other	18,394	28,989	(10,595)	(37)%						
Total property operating costs	\$ 148,236	\$ 153,209	\$ (4,973)	(3)%						

The decrease in total property operating costs was attributable to aggregate expense reductions of \$15.3 million primarily related to our transition from our cloud and managed services offerings associated with our strategic growth plan, with expense reductions primarily in rent expense from exiting certain leased facilities, management fee allocation, and other costs such as communications services and bad debt expense. Offsetting these decreases was an increase of \$10.3 million in utilities expense primarily related to increased expense associated with increased power usage related to growth in our hyperscale offering.

Real Estate Taxes and Insurance. Real estate taxes and insurance for the year ended December 31, 2018 were \$12.2 million which remained consistent with real estate taxes and insurance of \$12.0 million for the year ended December 31, 2017.

Depreciation and Amortization. Depreciation and amortization for the year ended December 31, 2018 was \$149.9 million compared to \$140.9 million for the year ended December 31, 2017. The increase of \$9.0 million, or 6%, was primarily due to additional depreciation expense related to an increase in assets placed in service in our Irving, Chicago, Atlanta-Metro and Ashburn facilities.

General and Administrative Expenses. General and administrative expenses were \$80.9 million for the year ended December 31, 2018 compared to general and administrative expenses of \$87.2 million for the year ended December 31, 2017, a decrease of \$6.4 million, or 7%. The decrease was primarily attributable to the implementation of the aforementioned strategic growth plan, resulting in a decrease in net payroll expenses, excluding equity-based compensation expense.

Transaction, Integration & Impairment Costs. For the year ended December 31, 2018, we incurred \$2.7 million in transaction, integration and impairment costs compared to \$11.1 million for the year ended December 31, 2017. The decrease was primarily related to certain customer asset write offs and equipment impairments in 2017.

Restructuring Costs. Restructuring costs, which are costs associated with our strategic growth plan, were \$37.9 million for the year ended December 31, 2018. Restructuring costs primarily related to employee severance expenses, professional fees, acceleration of equity-based compensation awards and the sale or write-off of certain product-related assets. No restructuring costs were incurred during the year ended December 31, 2017.

Interest Expense. Interest expense for the year ended December 31, 2018 was \$28.7 million compared to \$30.5 million for the year ended December 31, 2017. The decrease of \$1.8 million, or 6%, was due primarily to a higher level of capitalized interest, partially offset by an increase in the average total debt balance of \$146.7 million as well as an increase in our average interest rate associated with that debt balance.

Debt Restructuring Costs. Debt restructuring costs for the year ended December 31, 2018 were \$0.6 million compared to debt restructuring costs of \$20.0 million for the year ended December 31, 2017. The decrease in debt restructuring costs of \$19.4 million was primarily due to debt restructuring expenses of approximately \$20 million in the fourth quarter of 2017 associated with the replacement of the \$300 million 5.875% senior notes due 2022 with the \$400 million 4.75% senior notes due 2025. The debt restructuring costs in 2018 relate to this extension of term, modification of various covenants and reduced pricing associated with our \$1.52 billion credit facility.

Tax Benefit of Taxable REIT Subsidiaries. Tax benefit of taxable REIT subsidiaries for the year ended December 31, 2018 was \$3.4 million compared to \$9.8 million for the year ended December 31, 2017. The current period tax benefit primarily related to recorded operating losses resulting from both current period operating losses, valuation allowances recorded against certain federal and state deferred tax assets, and prior period tax provision adjustments. The prior period tax benefit primarily related to recorded operating losses resulting from both current period operating losses, prior period tax provision adjustments, and federal tax rate changes.

Year Ended December 31, 2017 Compared to Year Ended December 31, 2016

Changes in revenues and expenses for the year ended December 31, 2017 compared to the year ended December 31, 2016 are summarized below (in thousands):

	Year Ended December 31,											
		2017		2016	\$	Change	% Change					
Revenues:												
Rental	\$	335,819	\$	295,723	\$	40,096	14 %					
Recoveries from customers		37,886		29,271		8,615	29 %					
Cloud and managed services		65,466		68,488		(3,022)	(4)%					
Other		7,339		8,881		(1,542)	(17)%					
Total revenues		446,510		402,363		44,147	11 %					
Operating expenses:												
Property operating costs		153,209		136,488		16,721	12 %					
Real estate taxes and insurance		11,959		8,840		3,119	35 %					
Depreciation and amortization		140,924		124,786		16,138	13 %					
General and administrative		87,231		83,286		3,945	5 %					
Transaction, integration and impairment costs		11,060		10,906		154	1 %					
Total operating expenses		404,383		364,306		40,077	11 %					
Operating income		42,127		38,057		4,070	11 %					
Other income and expense:												
Interest income		67		3		64	2,133 %					
Interest expense		(30,523)		(23,159)		(7,364)	32 %					
Debt restructuring costs		(19,992)		(192)		(19,800)	10,313 %					
Income (loss) before taxes	\$	(8,321)	\$	14,709	\$	(23,030)	(157)%					
Tax benefit of taxable REIT subsidiaries		9,778		9,976		(198)	(2)%					
Net income (loss)	\$	1,457	\$	24,685	\$	(23,228)	(94)%					

Revenues. Total revenues for the year ended December 31, 2017 were \$446.5 million compared to \$402.4 million for the year ended December 31, 2016. The increase of \$44.1 million, or 11%, was largely attributable to organic growth in our customer base and placing additional square footage into service in conjunction with the development and expansion of certain facilities, partially offset by a decrease in our cloud and managed service revenues. Facilities primarily contributing to the increase were the Irving, Chicago, Richmond, Atlanta-Suwanee and Atlanta-Metro data centers. The acquisition of the Piscataway facility on June 6, 2016, contributed \$8.9 million in incremental revenue for the year ended December 31, 2017.

Property Operating Costs. Property operating costs for the year ended December 31, 2017 were \$153.2 million compared to property operating costs of \$136.5 million for the year ended December 31, 2016, an increase of \$16.7 million, or 12%. The breakdown of our property operating costs is summarized in the table below (in thousands):

	`	Year Ended D			
2017		2016	9	Change	% Change
\$ 23,107	\$	21,118	\$	1,989	9 %
15,452		17,705		(2,253)	(13)%
15,734		14,081		1,653	12 %
48,311		38,753		9,558	25 %
21,616		20,643		973	5 %
28,989		24,188		4,801	20 %
\$ 153,209	\$	136,488	\$	16,721	12 %
\$	\$ 23,107 15,452 15,734 48,311 21,616 28,989	\$ 23,107 \$ 15,452 15,734 48,311 21,616 28,989	2017 2016 \$ 23,107 \$ 21,118 15,452 17,705 15,734 14,081 48,311 38,753 21,616 20,643 28,989 24,188	2017 2016 9 \$ 23,107 \$ 21,118 \$ 15,452 \$ 15,734 \$ 14,081 \$ 48,311 \$ 38,753 \$ 21,616 \$ 20,643 \$ 28,989 \$ 24,188	\$ 23,107 \$ 21,118 \$ 1,989 15,452 17,705 (2,253) 15,734 14,081 1,653 48,311 38,753 9,558 21,616 20,643 973 28,989 24,188 4,801

The acquisition of Piscataway contributed \$4.0 million to the total increase in property operating costs for the year ended December 31, 2017. The remaining \$12.7 million increase in total property operating costs was primarily attributable to revenue growth and expansion of our existing facilities, which included (exclusive of the increase attributable to Piscataway) increased direct payroll, increased repairs and maintenance expense which tends to fluctuate from period to period and increase with the expansion and lease-up of our facilities, increased utilities expense and an increase in bad debt expense and certain reserves associated with reimbursement of utility costs. This was offset by a decrease in rent expense primarily related to the exit of portions of leased facilities as customers churned, downgraded or migrated to our owned facilities. In addition, management fee allocation increased as it is based on a percentage of revenue.

Real Estate Taxes and Insurance. Real estate taxes and insurance for the year ended December 31, 2017 were \$12.0 million compared to \$8.8 million for the year ended December 31, 2016. The increase of \$3.1 million, or 35%, was primarily attributable to the acquisition of our Piscataway data center as well as the acquisition of the Fort Worth facility. The increase was also attributable to increased real estate taxes at our Irving, Atlanta-Metro and Atlanta-Suwanee facilities, as well as increased real estate taxes at our Sacramento facility largely related to tax authorities' reassessments of 2017 taxes.

Depreciation and Amortization. Depreciation and amortization for the year ended December 31, 2017 was \$140.9 million compared to \$124.8 million for the year ended December 31, 2016. The increase of \$16.1 million, or 13%, was partially attributable to depreciation expense of \$1.1 million and amortization expense of \$1.4 million associated with the Piscataway acquisition. The remaining increase of \$13.6 million was primarily due to additional depreciation of the Irving, Chicago, and Atlanta-Suwanee data centers, as well as higher amortization expense related to a higher level of leasing commissions.

General and Administrative Expenses. General and administrative expenses were \$87.2 million for the year ended December 31, 2017 compared to general and administrative expenses of \$83.3 million for the year ended December 31, 2016, an increase of \$3.9 million, or 5%, which was the result of increased payroll, increased sales and marketing spend, higher equity-based compensation and higher professional fees. These increases were offset by an increased management fee allocation, which is based on a percentage of revenue.

Transaction, Integration, & Impairment Costs. For the year ended December 31, 2017, we incurred \$11.1 million in transaction, integration, and impairment costs compared to \$10.9 million for the year ended December 31, 2016. For the year ended December 31, 2017, we recognized \$9.1 million in non-routine costs related to customer asset write offs and equipment impairments, and a reassessment of prior years' personal property taxes at our Sacramento facility. For the year ended December 31, 2016, \$9.6 million of costs were attributable to integration expenses primarily related to systems integration, duplicate personnel and accelerated depreciation of certain software relating to the leased facilities acquired in 2015, inclusive of an offset related to the reimbursement of certain escrow funds. The remaining \$1.3 million of the prior year balance primarily related to transaction costs incurred in the acquisition of the Piscataway and Fort Worth facilities. Acquisition-related costs for acquisitions accounted for as a business combination in accordance with ASC 805, Business Combinations, are expensed in the periods in which the costs are incurred and the services are received.

Interest Expense. Interest expense for the year ended December 31, 2017 was \$30.5 million compared to \$23.2 million for the year ended December 31, 2016. The increase of \$7.4 million, or 32%, was due primarily to an increase in the average debt balance of \$243.0 million as a result of our ongoing developments, expansions and acquisitions, as well as a slight increase in the weighted average interest rate on floating rate borrowings, partially offset by issuance of additional shares of common stock and higher capitalized interest during the current period due to the growth in construction projects.

Debt Restructuring Costs. Debt restructuring costs for the year ended December 31, 2017 were \$20.0 million compared to debt restructuring costs of \$0.2 million for the year ended December 31, 2016. The increase in debt restructuring costs of \$19.8 million was primarily due to debt restructuring expenses of approximately \$20 million in the fourth quarter of 2017 associated with the replacement of the \$300 million 5.875% senior notes due 2022 with the \$400 million 4.75% notes due 2025.

Tax Benefit of Taxable REIT Subsidiaries. Tax benefit of taxable REIT subsidiaries for the year ended December 31, 2017 was \$9.8 million compared to \$10.0 million for the year ended December 31, 2016. The Company's non-cash deferred tax benefit, in both the current year and the prior year, relate to recorded operating losses which include certain transaction and integration costs. In addition, during 2017, the Company recorded a one-time non-cash tax benefit of \$3.3 million attributable to the re-measurement of deferred tax assets (liabilities) as a result of a reduction in the U.S. corporate tax rate from approximately 35% as of December 31, 2016 to 21% as of December 31, 2017 due to new tax legislation which generally takes effect for taxable years beginning or after January 1, 2018.

Non-GAAP Financial Measures

We consider the following non-GAAP financial measures to be useful to investors as key supplemental measures of our performance: (1) FFO; (2) Operating FFO; (3) Adjusted Operating FFO; (4) MRR; (5) NOI; (6) EBITDA*re*; and (7) Adjusted EBITDA. These non-GAAP financial measures should be considered along with, but not as alternatives to, net income or loss and cash flows from operating activities as a measure of our operating performance. FFO, Operating FFO, Adjusted Operating FFO, MRR, NOI, EBITDA and Adjusted EBITDA, as calculated by us, may not be comparable to FFO, Operating FFO, Adjusted Operating FFO, MRR, NOI, EBITDA and Adjusted EBITDA as reported by other companies that do not use the same definition or implementation guidelines or interpret the standards differently from us.

FFO, Operating FFO and Adjusted Operating FFO

We consider funds from operations ("FFO") to be a supplemental measure of our performance which should be considered along with, but not as an alternative to, net income (loss) and cash provided by operating activities as a measure of operating performance. We calculate FFO in accordance with the standards established by the National Association of Real Estate Investment Trusts ("NAREIT"). FFO represents net income (loss) (computed in accordance with GAAP), adjusted to exclude gains (or losses) from sales of property, real estate-related depreciation and amortization and similar adjustments for unconsolidated partnerships and joint ventures. Our management uses FFO as a supplemental performance measure because, in excluding real estate-related depreciation and amortization and gains and losses from property dispositions, it provides a performance measure that, when compared year over year, captures trends in occupancy rates, rental rates and operating costs.

Due to the volatility and nature of certain significant charges and gains recorded in our operating results that management believes are not reflective of our core operating performance, management computes an adjusted measure of FFO, which we refer to as Operating funds from operations ("Operating FFO"). Operating FFO is a non-GAAP measure that is used as a supplemental operating measure and to provide additional information to users of the financial statements. We generally calculate Operating FFO as FFO excluding certain non-routine charges and gains and losses that management believes are not indicative of the results of our operating real estate portfolio. We believe that Operating FFO provides investors with another financial measure that may facilitate comparisons of operating performance between periods and, to the extent they calculate Operating FFO on a comparable basis, between REITs.

Adjusted Operating Funds From Operations ("Adjusted Operating FFO") is a non-GAAP measure that is used as a supplemental operating measure and to provide additional information to users of the financial statements. We calculate Adjusted Operating FFO by adding or subtracting from Operating FFO items such as: maintenance capital investment,

paid leasing commissions, amortization of deferred financing costs and bond discount, non-real estate depreciation and amortization, straight line rent adjustments, deferred taxes and non-cash compensation.

We offer these measures because we recognize that FFO, Operating FFO and Adjusted Operating FFO will be used by investors as a basis to compare our operating performance with that of other REITs. However, because FFO, Operating FFO and Adjusted Operating FFO exclude real estate depreciation and amortization and capture neither the changes in the value of our properties that result from use or market conditions, nor the level of capital expenditures and capitalized leasing commissions necessary to maintain the operating performance of our properties, all of which have real economic effect and could materially impact our financial condition, cash flows and results of operations, the utility of FFO, Operating FFO and Adjusted Operating FFO as measures of our operating performance is limited. Our calculation of FFO may not be comparable to measures calculated by other companies who do not use the NAREIT definition of FFO or do not calculate FFO in accordance with NAREIT guidance. In addition, our calculations of FFO, Operating FFO and Adjusted Operating FFO are not necessarily comparable to FFO, Operating FFO and Adjusted Operating FFO as calculated by other REITs that do not use the same definition or implementation guidelines or interpret the standards differently from us. FFO, Operating FFO and Adjusted Operating FFO are non-GAAP measures and should not be considered a measure of our results of operations or liquidity or as a substitute for, or an alternative to, net income (loss), cash provided by operating activities or any other performance measure determined in accordance with GAAP, nor is it indicative of funds available to fund our cash needs, including our ability to make distributions to our stockholders.

A reconciliation of net income to FFO, Operating FFO and Adjusted Operating FFO is presented below:

	Year Ended December 31,							
	2018	2017	2016					
	(unau	dited \$ in thou	sands)					
FFO								
Net income (loss)	\$ (7,175)	\$ 1,457	\$ 24,685					
Real estate depreciation and amortization	136,119	123,555	108,474					
FFO	128,944	125,012	133,159					
Preferred Stock Dividends	(16,666)							
FFO available to common stockholders & OP unit holders	112,278	125,012	133,159					
Debt restructuring costs.	605	19,992	193					
Restructuring costs	37,943	_	_					
Transaction, integration and impairment costs	2,743	11,060	10,906					
Tax benefit associated with restructuring, transaction and integration costs	(2,408)		(3,592)					
Operating FFO available to common stockholders & OP unit holders	151,161	156,064	140,666					
Maintananaa Canay	(6,662)	(5,000)	(5.050)					
Maintenance Capex	(6,662)	(5,009)	(5,059)					
Leasing commissions paid.	(24,246)	(20,115)	(18,751)					
Amortization of deferred financing costs and bond discount.	3,856	3,868	3,545					
Non real estate depreciation and amortization.	13,772	17,369	16,313					
Straight line rent revenue and expense and other.	(6,770)	(4,967)	(6,794)					
Tax benefit from operating results	(960)	(9,778)	(6,384)					
Equity-based compensation expense	14,972	13,863	10,584					
Adjusted Operating FFO available to common stockholders & OP unit holders	\$ 145,123	\$ 151,295	\$ 134,120					

Monthly Recurring Revenue (MRR) and Recognized MRR

We calculate MRR as monthly contractual revenue under signed leases as of a particular date, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues. It does not include the impact from booked-not-billed leases as of a particular date, unless otherwise specifically noted.

Separately, we calculate recognized MRR as the recurring revenue recognized during a given period, which includes revenue from our rental and cloud and managed services activities, but excludes customer recoveries, deferred set-up fees, variable related revenues, non-cash revenues and other one-time revenues.

Management uses MRR and recognized MRR as supplemental performance measures because they provide useful measures of increases in contractual revenue from our customer leases. MRR and recognized MRR should not be viewed by investors as alternatives to actual monthly revenue, as determined in accordance with GAAP. Other companies may not calculate MRR or recognized MRR in the same manner. Accordingly, our MRR and recognized MRR may not be comparable to other companies' MRR and recognized MRR. MRR and recognized MRR should be considered only as supplements to total revenues as a measure of our performance. MRR and recognized MRR should not be used as measures of our results of operations or liquidity, nor is it indicative of funds available to meet our cash needs, including our ability to make distributions to our stockholders.

A reconciliation of total GAAP revenues to recognized MRR in the period and MRR at period end is presented below:

	Year Ended December 31,							
		2018		2017		2016		
		(unaı	ıdit	ed \$ in thous	and	s)		
Recognized MRR in the period								
Total period revenues (GAAP basis)	\$	450,524	\$	446,510	\$	402,363		
Less: Total period recoveries		(45,386)		(37,886)		(29,271)		
Total period deferred setup fees.		(12,475)		(10,690)		(9,172)		
Total period straight line rent and other		(17,148)		(22,848)		(16,589)		
Recognized MRR in the period		375,515		375,086		347,331		
MRR at period end								
Total period revenues (GAAP basis)	\$	450,524	\$	446,510	\$	402,363		
Less: Total revenues excluding last month		(412,041)		(406,345)		(366,385)		
Total revenues for last month of period		38,483		40,165		35,978		
Less: Last month recoveries		(3,822)		(3,175)		(3,247)		
Last month deferred setup fees		(1,015)		(1,123)		(968)		
Last month straight line rent and other		(2,505)		(4,159)		(873)		
MRR at period end *	\$	31,141	\$	31,708	\$	30,890		

^{*} Does not include our booked-not-billed MRR balance, which was \$5.2 million, \$3.9 million and \$3.6 million as of December 31, 2018, 2017 and 2016, respectively.

Net Operating Income (NOI)

We calculate net operating income ("NOI"), as net income (loss) (computed in accordance with GAAP), excluding: interest expense, interest income, tax expense (benefit) of taxable REIT subsidiaries, depreciation and amortization, write off of unamortized deferred financing, debt restructuring costs, gain (loss) on extinguishment of debt, transaction, integration and impairment costs, gain (loss) on sale of real estate, restructuring costs and general and administrative expenses. We allocate a management fee charge of 4% of cash revenues for all facilities, with the exception of the leased facilities acquired in 2015 which are allocated a charge of 10% of cash revenues, as a property operating cost and a corresponding reduction to general and administrative expense to cover the day-to-day administrative costs to operate our data centers. The management fee charge is reflected as a reduction to net operating income.

Management uses NOI as a supplemental performance measure because it provides a useful measure of the operating results from our customer leases. In addition, we believe it is useful to investors in evaluating and comparing the operating performance of our properties and to compute the fair value of our properties. Our NOI may not be comparable to other REITs' NOI as other REITs may not calculate NOI in the same manner. NOI should be considered only as a supplement to net income as a measure of our performance and should not be used as a measure of our results of operations or liquidity or as an indication of funds available to meet our cash needs, including our ability to make distributions to our stockholders. NOI is a measure of the operating performance of our properties and not of our performance as a whole. NOI is therefore not a substitute for net income as computed in accordance with GAAP.

A reconciliation of net income to NOI is presented below:

	Year Ended December 31,						
		2018		2017		2016	
		(unau	dite	d \$ in thous	and	ls)	
Net Operating Income (NOI)							
Net income (loss)	\$	(7,175)	\$	1,457	\$	24,685	
Interest income		(150)		(67)		(3)	
Interest expense		28,749		30,523		23,159	
Depreciation and amortization		149,891		140,924		124,786	
Debt restructuring costs		605		19,992		193	
Tax benefit of taxable REIT subsidiaries		(3,368)		(9,778)		(9,976)	
Transaction, integration and impairment costs		2,743		11,060		10,906	
General and administrative expenses		80,857		87,231		83,286	
Restructuring		37,943					
NOI (1)	\$	290,095	\$:	281,342	\$	257,036	
Breakdown of NOI by facility:	_			-		-	
Atlanta-Metro data center	\$	87,060	\$	80,648	\$	81,074	
Atlanta-Suwanee data center		48,165		48,365		45,760	
Richmond data center		33,445		40,919		30,752	
Irving data center		42,621		32,870		16,608	
Dulles data center		16,944		21,672		19,384	
Leased data centers (2)		9,695		12,006		24,131	
Santa Clara data center		8,344		11,378		13,703	
Piscataway data center		12,266		9,395		5,627	
Princeton data center		9,729		9,598		9,544	
Sacramento data center		7,448		6,804		7,734	
Chicago data center		8,878		4,652		167	
Ashburn data center		1,250		_			
Fort Worth data center		902		268		3	
Other facilities (3)		3,348		2,767		2,549	
NOI ⁽¹⁾	\$	290,095	\$ 2	281,342	\$	257,036	

⁽¹⁾ Includes facility level general and administrative allocation charges of 4% of cash revenue for all facilities, with the exception of the leased facilities acquired in 2015, which include general and administrative expense allocation charges of 10% of cash revenue. These allocated charges aggregated to \$20.8 million, \$21.6 million and \$20.6 million for the years ended December 31, 2018, 2017 and 2016, respectively.

⁽²⁾ At December 31, 2018 includes 10 facilities. All facilities are leased, including those subject to capital leases.

⁽³⁾ Consists of Miami, FL; Lenexa, KS; Overland Park, KS; and Duluth, GA facilities.

Earnings Before Interest, Taxes, Depreciation and Amortization for Real Estate (EBITDAre) and Adjusted EBITDA

We calculate EBITDA*re* in accordance with NAREIT. EBITDA*re* represents net income (loss) (computed in accordance with GAAP) adjusted to exclude gains (or losses) from sales of depreciated property, income tax expense (or benefit), interest expense, depreciation and amortization, impairments of depreciated property and unconsolidated partnerships and joint ventures, and similar adjustments for unconsolidated partnerships and joint ventures. Management uses EBITDA*re* as a supplemental performance measure because it provides performance measures that, when compared year over year, captures the performance of our operations by removing the impact of our capital structure (primarily interest expense) and asset base charges (primarily depreciation and amortization) from our operating results.

In addition to EBITDA*re*, we calculate an adjusted measure of EBITDA, which we refer to as Adjusted EBITDA, as EBITDA excluding certain non-routine charges, write off of unamortized deferred financing costs, gains (losses) on extinguishment of debt, restructuring costs, transaction, integration and impairment costs, in addition to non-cash recurring costs such as equity-based compensation. We believe that Adjusted EBITDA provides investors with another financial measure that may facilitate comparisons of operating performance between periods and, to the extent other REITS calculate Adjusted EBITDA on a comparable basis, between REITs.

Management uses EBITDA*re* and Adjusted EBITDA as supplemental performance measures as they provide useful measures of assessing our operating results. Other companies may not calculate EBITDA*re* or Adjusted EBITDA in the same manner. Accordingly, our EBITDA*re* and Adjusted EBITDA may not be comparable to others. EBITDA*re* and Adjusted EBITDA should be considered only as supplements to net income (loss) as measures of our performance and should not be used as substitutes for net income (loss), as measures of our results of operations or liquidity or as indications of funds available to meet our cash needs, including our ability to make distributions to our stockholders.

A reconciliation of net income to EBITDA*re* and Adjusted EBITDA is presented below:

	Year Ended December 31,						
		2018 2017				2016	
		(unau	dite	d \$ in thou	sano	ls)	
EBITDAre and Adjusted EBITDA							
Net income (loss)	\$	(7,175)	\$	1,457	\$	24,685	
Interest income		(150)		(67)		(3)	
Interest expense		28,749		30,523		23,159	
Tax benefit of taxable REIT subsidiaries		(3,368)		(9,778)		(9,976)	
Depreciation and amortization		149,891		140,924		124,786	
Loss on disposition of depreciated property and impairment write-downs of depreciated property		15,836		4,219		_	
EBITDAre		183,783		167,278		162,651	
Debt restructuring costs.		605		19.992		193	
Equity-based compensation expense		14.972		13.863		10,584	
Restructuring costs		22,107		13,603		10,564	
Transaction, integration and impairment costs		2,743		6.841		10.906	
	0		Φ.		0		
Adjusted EBITDA	3	224,210	2	207,974	3	184,334	

Liquidity and Capital Resources

Short-Term Liquidity

Our short-term liquidity needs include funding capital expenditures for the development of data center space (a significant portion of which is discretionary), meeting debt service and debt maturity obligations, funding payments for capital lease and lease financing obligations, funding distributions to our stockholders and unit holders, utility costs, site maintenance costs, real estate and personal property taxes, insurance, rental expenses, general and administrative expenses and certain recurring and non-recurring capital expenditures.

We expect that we will incur approximately \$450 million to \$500 million in additional capital expenditures through December 31, 2019, in connection with the development of our data center facilities, which excludes acquisitions and includes of our 50% proportionate share of capital expenditures at the Manassas facility that was contributed to a joint venture. We expect to spend approximately \$350 million to \$400 million of capital expenditures with vendors on development, and the remainder on other capital expenditures and capitalized overhead costs (including capitalized interest, commissions, payroll and other similar costs), personal property and other less material capital projects. We expect to fund these costs using operating cash flows, draws on our credit facility, additional equity issuances through

our ATM program or other capital markets activity. A significant portion of these expenditures are discretionary in nature and we may ultimately determine not to make these expenditures or the timing of such expenditures may vary.

We expect to meet our short-term liquidity needs through operating cash flow, cash and cash equivalents and borrowings under our credit facility.

Our cash paid for capital expenditures for the years ended December 31, 2018, 2017 and 2016 are summarized in the table below (in thousands):

	Year Ended December 31,					
	2018 2017 2016				2016	
Development	\$	386,592	\$	213,632	\$	203,984
Acquisitions		117,029		127,038		173,067
Maintenance capital expenditures		6,662		5,009		5,059
Other capital expenditures (1)		91,049		88,673		70,862
Total capital expenditures	\$	601,332	\$	434,352	\$	452,972

⁽¹⁾ Represents capital expenditures for capitalized interest, commissions, personal property, overhead costs and corporate fixed assets. Corporate fixed assets primarily relate to construction of corporate offices, leasehold improvements and product related assets.

Long-Term Liquidity

Our long-term liquidity needs primarily consist of funds for property acquisitions, scheduled debt maturities, payment of principal at maturity of our Senior Notes, funding payments for capital lease and lease financing obligations, dividend payments on our Series A Preferred Stock and Series B Preferred Stock and recurring and non-recurring capital expenditures. We may also pursue new developments and additional redevelopment of our data centers and future redevelopment of other space in our portfolio. We may also pursue development on land which QTS currently owns that is available at our data center properties in Atlanta-Metro, Atlanta-Suwanee, Richmond, Irving, Fort Worth, Princeton, Chicago, Ashburn, Phoenix, Hillsboro and Manassas, through our new joint venture. The development and/or redevelopment of this space, including timing, is at our discretion and will depend on a number of factors, including availability of capital and our estimate of the demand for data center space in the applicable market. We expect to meet our long-term liquidity needs with net cash provided by operations, incurrence of additional long-term indebtedness, borrowings under our credit facility and issuance of additional equity or debt securities, subject to prevailing market conditions, as discussed below.

Equity Capital

In March 2016, QTS filed an automatic shelf registration statement on Form S-3 with the SEC. Effective upon filing, the shelf provides for the potential sale of an unspecified amount of our Class A common stock, preferred stock, depositary shares representing preferred stock, warrants and rights to purchase our common stock or any combination thereof, subject to the ability of QTS to effect offerings on satisfactory terms based on prevailing conditions. The shelf registration statement is intended to allow us to have the flexibility to raise such funds in one or more offerings should we perceive market conditions to be favorable.

In March 2017, we established an "at-the-market" equity offering program (the "ATM Program") pursuant to which we may issue, from time to time, up to \$300 million of our Class A common stock and we may issue shares under a similar program in the future. We issued no shares under the ATM Program during the year ended December 31, 2018.

On March 15, 2018, we issued 4,280,000 shares of 7.125% Series A Cumulative Redeemable Perpetual Preferred Stock with a liquidation preference of \$25.00 per share, which included 280,000 shares of the underwriters' partial exercise of their option to purchase additional shares. We used the net proceeds of approximately \$103.2 million to repay amounts outstanding under our unsecured revolving credit facility.

On June 25, 2018, we issued 3,162,500 shares of 6.50% Series B Cumulative Convertible Perpetual Preferred Stock with a liquidation preference of \$100.00 per share, which included 412,500 shares the underwriters purchased pursuant to the exercise of their overallotment option in full. We used the net proceeds of approximately \$304 million to repay amounts outstanding under our unsecured revolving credit facility.

Manassas Joint Venture.

On February 22, 2019, we entered into a joint venture with Alinda Capital Partners ("Alinda"), a premier infrastructure investment firm, with respect to our Manassas data center, as described above under "—Factors That May Influence Future Results of Operations and Cash Flows." At the closing, we received approximately \$53 million in in proceeds, which was comprised of the cash contributed by Alinda and also borrowings under a \$165 million secured credit facility entered into by the joint venture at closing that carries a rate of LIBOR plus 2.25%. We used these proceeds to pay down our revolving credit facility. Under the joint venture agreement, we will receive additional proceeds in the future as and when we complete development of each phase of the Manassas data center and place it into service, which allows us to receive proceeds for Alinda's share of the joint venture based on the expected full stabilization of the asset. These proceeds will be based on a 6.75% capitalization rate for each phase delivered during the first three years of the venture. We expect that upon full stabilization of the Manassas data center, we will have received approximately \$87 million of proceeds from the joint venture (including the proceeds received at closing), which will include proceeds from the joint venture's credit facility. We further expect that this joint venture will reduce our expected capital deployment requirements for the development of the Manassas data center by approximately \$120 million.

Cash

As of December 31, 2018, we had \$11.8 million of unrestricted cash and cash equivalents.

The following tables present quarterly cash dividends and distributions paid to QTS' common stockholders and the Operating Partnership's unit holders for the years ended December 31, 2018 and 2017:

Year I	Ended December 31, 2018	3			
Record Date	Payment Date		Per Share and Per Unit Rate	Dividen	ggregate d/Distribution t (in millions)
Common Stock					
September 20, 2018	October 4, 2018	\$	0.41	\$	23.7
June 20, 2018	July 6, 2018		0.41		23.7
March 22, 2018	April 5, 2018		0.41		23.7
December 5, 2017	January 5, 2018		0.39		22.2
		\$	1.62	\$	93.3
Series A Preferred Stock					
September 28, 2018	October 15, 2018	\$	0.45	\$	1.9
June 29, 2018	July 16, 2018		0.45		1.9
April 5, 2018	April 16, 2018		0.15		0.6
•		\$	1.04	\$	4.4
Series B Preferred Stock					
September 30, 2018	October 15, 2018	\$	1.99	\$	6.3
· · · · · · · · · · · · · · · · · · ·		*		\$	6.3

Record Date	rd Date Payment Date				Aggregate Dividend/Distribution Amount (in millions)		
Common Stock			_				
September 22, 2017	October 5, 2017	\$	0.39	\$	22.2		
June 16, 2017	July 6, 2017		0.39		21.6		
March 16, 2017	April 5, 2017		0.39		21.4		
December 16, 2016	January 5, 2017		0.36		19.7		
	- '	\$	1.53	\$	84.9		

Year Ended December 31, 2017

Additionally, subsequent to December 31, 2018, the Company paid the following dividends:

- On January 8, 2019, the Company paid its regular quarterly cash dividend of \$0.41 per common share and per unit in the Operating Partnership to stockholders and unit holders of record as of the close of business on December 21, 2018.
- On January 15, 2019, the Company paid a quarterly cash dividend of approximately \$0.45 per share on its Series A Preferred Stock to holders of Series A Preferred Stock of record as of the close of business on December 31, 2018.
- On January 15, 2019, the Company paid a cash dividend for the period of October 15, 2018 through January 14, 2019 of approximately \$1.63 per share on its Series B Preferred Stock to holders of Series B Preferred Stock of record as of the close of business on December 31, 2018.

Indebtedness

As of December 31, 2018, we had approximately \$1,356.7 million of indebtedness, including capital lease obligations.

Unsecured Credit Facility. In November 2018, we amended our amended and restated unsecured credit facility, by among other things extending the term, modifying or eliminating certain covenants and reduced pricing by 20 basis points. The unsecured credit facility includes a \$350 million term loan which matures on December 17, 2023, a \$350 million term loan which matures on April 27, 2024, and an \$820 million revolving credit facility which matures on December 17, 2022, with a one year extension option. Amounts outstanding under the amended unsecured credit facility bear interest at a variable rate equal to, at our election, LIBOR or a base rate, plus a spread that will vary depending upon our leverage ratio. For revolving credit loans, the spread ranges from 1.35% to 1.95% for LIBOR loans and 0.35% to 0.95% for base rate loans. For term loans, the spread ranges from 1.30% to 1.90% for LIBOR loans and 0.30% to 0.90% for base rate loans. The unsecured credit facility also provides for borrowing capacity of up to \$200 million in various foreign currencies, and a \$500 million accordion feature, subject to obtaining additional loan commitments.

Under the unsecured credit facility, the capacity may be increased from the current capacity of \$1.52 billion to \$2.02 billion subject to certain conditions set forth in the credit agreement, including the consent of the administrative agent and obtaining necessary commitments. We are also required to pay a commitment fee to the lenders assessed on the unused portion of the unsecured revolving credit facility. At our election, we can prepay amounts outstanding under the unsecured credit facility, in whole or in part, without penalty or premium.

Our ability to borrow under the amended unsecured credit facility is subject to ongoing compliance with a number of customary affirmative and negative covenants, including limitations on liens, mergers, consolidations, investments, distributions, asset sales and affiliate transactions, as well as the following financial covenants: (i) the Operating Partnership's and its subsidiaries' consolidated total unsecured debt plus any capitalized lease obligations with respect to the unencumbered asset pool properties may not exceed 60% of the unencumbered asset pool value (or 65% of the unencumbered asset pool value for up to two consecutive fiscal quarters immediately following a material acquisition for which the Operating Partnership has provided written notice to the Agent; provided the two fiscal quarter period includes the quarter in which the material acquisition was consummated); (ii) the unencumbered asset pool debt yield cannot be less than 12% (or 11.5% for the two consecutive fiscal quarters immediately following a material acquisition for which the Operating Partnership has provided written notice to the Agent; provided the two fiscal quarter period includes the quarter in which the material acquisition was consummated); (iii) QTS must maintain a minimum fixed charge coverage ratio (defined as the ratio of consolidated EBITDA, subject to certain adjustments, to consolidated fixed charges) for the prior two most recently-ended calendar quarters of 1.50 to 1.00; (iv) QTS must maintain a maximum debt to gross asset value (as defined in the amended and restated agreement) ratio of 60% (or 65% for the two consecutive fiscal quarters immediately following a material acquisition for which the Operating Partnership has provided written notice to the Agent; provided the two fiscal quarter period includes the quarter in which the material acquisition was consummated); and (v) QTS must maintain tangible net worth (as defined in the amended and restated agreement) cannot be less than the sum of \$1,567,000,000 plus 75% of the net proceeds from any subsequent equity offerings.

The availability under the revolving credit facility is the lesser of (i) \$820 million, (ii) 60% of the unencumbered asset pool capitalized value (or 65% of the unencumbered asset pool capitalized value for the two consecutive fiscal quarters immediately following a material acquisition for which the Operating Partnership has provided written notice to the Agent; provided the two fiscal quarter period includes the quarter in which the material acquisition was consummated)

and (iii) the amount resulting in an unencumbered asset pool debt yield of 12% (or 11.5% for the two consecutive fiscal quarters immediately following a material acquisition for which the Operating Partnership has provided written notice to the Agent; provided the two fiscal quarter period includes the quarter in which the material acquisition was consummated). In the case of clauses (ii) and (iii) of the preceding sentence, the amount available under the revolving credit facility is adjusted to take into account any other unsecured debt and certain capitalized leases. A material acquisition is an acquisition of properties or assets with a gross purchase price equal to or in excess of 15% of the Operating Partnership's gross asset value (as defined in the amended and restated agreement) as of the end of the most recently ended quarter for which financial statements are publicly available. The availability of funds under our unsecured credit facility depends on compliance with our covenants.

As of December 31, 2018, we had outstanding \$952.0 million of indebtedness under the unsecured credit facility, consisting of \$252.0 million of outstanding borrowings under the unsecured revolving credit facility and \$700.0 million outstanding under the term loans, exclusive of net debt issuance costs of \$6.3 million. In connection with the unsecured credit facility, as of December 31, 2018, we had additional letters of credit outstanding aggregating to \$4.1 million. As of December 31, 2018, the weighted average interest rate for amounts outstanding under the unsecured credit facility was 3.53%.

On April 5, 2017, we entered into forward interest rate swap agreements with an aggregate notional amount of \$400 million. The forward swap agreements effectively fix the interest rate on \$400 million of term loan borrowings, \$200 million of swaps allocated to each term loan, from January 2, 2018 through December 17, 2021 and April 27, 2022, respectively. The weighted average effective fixed interest rate on the \$400 million notional amount of term loan financing approximates 3.3%, which commenced on January 2, 2018 and assumes the current LIBOR spread of 1.3%.

On December 20, 2018, we entered into additional forward interest rate swap agreements with an aggregate notional amount of \$400 million. The forward swap agreements effectively fix the interest rate on \$400 million of term loan borrowings, \$200 million of swaps allocated to each term loan, from December 17, 2021 and April 27, 2022 through the current maturity dates of the respective term loans which are December 17, 2023 and April 27, 2024, respectively. The weighted average effective fixed interest rate on the \$400 million notional amount of term loan financing following the execution of these swap agreements will approximate 3.9%, commencing on December 17, 2021 and April 27, 2022, assuming the current LIBOR spread of 1.3%. Additionally, we entered into forward interest rate swap agreements with an aggregate notional amount of \$200 million. The forward swap agreements effectively fix the interest rate on \$200 million of additional term loan borrowings, \$100 million of swaps allocated to each term loan, from January 2, 2020 through the current maturity dates of the respective term loans which are December 17, 2023 and April 27, 2024, respectively. The weighted average effective fixed interest rate on the \$200 million notional amount of term loan financing, following the execution of these swap agreements, will approximate 3.9%, commencing on January 2, 2020, assuming the current LIBOR spread of 1.3%.

4.750% Senior Notes due 2025. On November 8, 2017, the Operating Partnership and QTS Finance Corporation, a subsidiary of the Operating Partnership formed solely for the purpose of facilitating the offering of the 5.875% Senior Notes due 2022 (collectively, the "Issuers") issued \$400 million aggregate principal amount of 4.75% Senior Notes due November 15, 2025 (the "Senior Notes") in a private offering. The Senior Notes have an interest rate of 4.750% per annum and were issued at a price equal to 100% of their face value. The net proceeds from the offering were used to fund the redemption of, and satisfy and discharge the indenture pursuant to which the Issuers issued, the 5.875% Senior Notes due 2022 and to repay a portion of the amount outstanding under the Company's unsecured revolving credit facility.

The Senior Notes are unconditionally guaranteed, jointly and severally, on a senior unsecured basis by all of the Operating Partnership's existing subsidiaries (other than foreign subsidiaries and receivables entities) and future subsidiaries that guarantee any indebtedness of QTS, the Issuers or any other subsidiary guarantor. QTS Realty Trust, Inc. does not guarantee the Senior Notes and will not be required to guarantee the Senior Notes expect under certain circumstances. The offering was conducted pursuant to Rule 144A of the Securities Act of 1933, as amended, and the Senior Notes were issued pursuant to an indenture, dated as of November 8, 2017, among QTS, the Issuers, the guarantors named therein, and Deutsche Bank Trust Company Americas, as trustee (the "Indenture"). As of December 31, 2018, the outstanding net debt issuance costs associated with the Senior Notes were \$5.2 million.

The Indenture contains affirmative and negative covenants that, among other things, limits or restricts the Operating Partnership's ability and the ability of certain of its subsidiaries (the "Restricted Subsidiaries") to: incur additional indebtedness; pay dividends; make certain investments or other restricted payments; enter into transactions with

affiliates; enter into agreements limiting the ability of the Operating Partnership's restricted subsidiaries to pay dividends; engage in sales of assets; and engage in mergers, consolidations or sales of substantially all of their assets.

However, certain of these covenants will be suspended if and for so long as the Senior Notes are rated investment grade by specified debt rating services and there is no default under the Indenture. The Operating Partnership and its Restricted Subsidiaries also are required to maintain total unencumbered assets (as defined in the Indenture) of at least 150% of their unsecured debt on a consolidated basis.

The Senior Notes may be redeemed by the Issuers, in whole or in part, at any time prior to November 15, 2020 at a redemption price equal to (i) 100% of the principal amount, plus (ii) accrued and unpaid interest to the redemption date, and (iii) a make-whole premium. On or after November 15, 2020, the Issuers may redeem the Senior Notes, in whole or in part, at a redemption price equal to (i) 103.563% of the principal amount from November 15, 2020 to November 14, 2021, (ii) 102.375% of the principal amount from November 15, 2021 to November 14, 2022, (iii) 101.188% of the principal amount from November 15, 2022 to November 14, 2023 and (iv) 100.000% of the principal amount of the Senior Notes from November 15, 2023 and thereafter, in each case plus accrued and unpaid interest to, but excluding, the redemption date. In addition, at any time prior to November 15, 2020, the Issuers may, subject to certain conditions, redeem up to 40% of the aggregate principal amount of the Senior Notes at 104.750% of the principal amount thereof, plus accrued and unpaid interest to, but excluding, the redemption date, with the net cash proceeds of certain equity offerings consummated by the Company or the Operating Partnership. Also, upon the occurrence of a change of control of us or the Operating Partnership, holders of the Senior Notes may require the Issuers to repurchase all or a portion of the Senior Notes at a price equal to 101% of the principal amount of the Senior Notes to be repurchased plus accrued and unpaid interest to the repurchase date.

Lenexa Mortgage. On March 8, 2017, we entered into a \$1.9 million mortgage loan secured by our Lenexa facility. This mortgage has a fixed rate of 4.1%, with periodic principal payments due monthly and a balloon payment of \$1.6 million in May 2022. As of December 31, 2018, the outstanding balance under the Lenexa mortgage was \$1.8 million.

Contingencies

We are subject to various routine legal proceedings and other matters in the ordinary course of business. While resolution of these matters cannot be predicted with certainty, management believes, based upon information currently available, that the final outcome of these proceedings will not have a material adverse effect on our financial condition, liquidity or results of operations.

Contractual Obligations

The following table summarizes our contractual obligations as of December 31, 2018, including the future non-cancellable minimum rental payments required under operating leases and the maturities and scheduled principal repayments of indebtedness and other agreements (in thousands):

Obligations	2019	2020	2021	2022	2023	Thereafter	Total
Operating Leases and/or Licenses	\$14,778	\$11,128	\$11,008	\$ 10,161	\$ 10,250	\$ 57,221	\$ 114,546
Capital Leases and Lease Financing							
Obligations (1)	3,398	3,007	3,168	3,445	3,748	20,172	36,938
Future Principal Payments of Indebtedness (2)	62	71	74	253,594	350,000	750,000	1,353,801
Total (3)	\$18,238	\$14,206	\$14,250	\$267,200	\$363,998	\$827,393	\$1,505,285

⁽¹⁾ Includes a capital lease entered into prior to December 31, 2018 in our Ashburn, VA facility that will commence in the first quarter of 2019.

⁽³⁾ Total obligations does not include contractual interest that we are required to pay on our long-term debt obligations. Contractual interest payments on our credit facilities, mortgages, capital leases and other financing arrangements through the scheduled maturity date, assuming no prepayment of debt and inclusive of the effects of interest rate swaps, are shown below. Interest payments were estimated based on the principal amount of debt outstanding and the applicable interest rate as of December 31, 2018 (in thousands):

2019	2020	2021	2022	2023	Thereafter	Total
\$ 55,629	\$ 56 162	\$ 56,069	\$ 57.435	\$ 46 780	\$ 43 936	\$ 316 011

⁽²⁾ Does not include the related debt issuance costs on the Senior Notes nor the related debt issuance costs on the term loans reflected at December 31, 2018. Also does not include letters of credit outstanding aggregating to \$4.1 million as of December 31, 2018 under our unsecured credit facility.

Off-Balance Sheet Arrangements

As of December 31, 2018, the Company did not have any off-balance sheet arrangements. See Item 7A, Quantitative and Qualitative Disclosures About Market Risk, for additional information on our interest rate swaps.

Cash Flows

	Year Ended December 31,					,
(in thousands)		2018		2017		2016
Cash flow provided by (used for):		_			· ·	
Operating activities	\$	191,273	\$	170,323	\$	153,794
Investing activities		(598,553)		(434,352)		(452,972)
Financing activities		410,796		262,692		299,954

Year Ended December 31, 2018 Compared to Year Ended December 31, 2017

Cash flow provided by operating activities was \$191.3 million for the year ended December 31, 2018, compared to \$170.3 million for the year ended December 31, 2017. The increased cash flow provided by operating activities of \$21.0 million was primarily due to an increase in cash flow associated with net changes in working capital of \$22.0 million primarily relating to an increase in accounts payable and accrued liabilities unrelated to capital additions, offset by a decrease in cash operating income of \$1.0 million.

Cash flow used for investing activities increased by \$164.2 million to \$598.6 million for the year ended December 31, 2018, compared to \$434.4 million for the year ended December 31, 2017. The increase was primarily due to higher cash paid for capital expenditures of \$177.0 million in 2018 primarily related to higher redevelopment costs associated with our Irving, Atlanta-Metro, Chicago, Ashburn and Piscataway data centers; offset by less net cash paid for acquisitions which was \$10.0 million greater in 2017 due to the acquisition of land in Ashburn, Hillsboro and Phoenix, and proceeds from the sale of GDT-related assets of \$2.8 million. These expenditures include capitalized soft costs such as interest, payroll and other costs to redevelop the properties, which were, in the aggregate, \$44.2 million and \$26.9 million for the years ended December 31, 2018 and 2017, respectively.

Cash flow provided by financing activities was \$410.8 million for the year ended December 31, 2018, compared to \$262.7 million for the year ended December 31, 2017. The increase was primarily due to higher net equity proceeds of \$300.0 million and less net cash paid for capital lease repayments which was \$17.8 million greater in 2017 due to the repayment of the capital lease in Dulles, VA. Partially offsetting these increases in cash provided by financing activities were lower net proceeds of \$71.0 million under our unsecured credit facility and lower net proceeds of \$86.8 million associated with the extinguishment and replacement of our senior notes in 2017, as well as higher payments of cash dividends to preferred and common stockholders of \$18.7 million which was primarily due to the issuance of preferred stock during the year ended 2018.

Year Ended December 31, 2017 Compared to Year Ended December 31, 2016

Cash flow provided by operating activities was \$170.3 million for the year ended December 31, 2017, compared to \$153.8 million for the year ended December 31, 2016. The increased cash flow provided by operating activities of \$16.5 million was primarily due to an increase in cash operating income of \$24.4 million, offset by a decrease in cash flow associated with net changes in working capital of \$7.9 million primarily relating to a reduction in accounts payable and accrued liabilities unrelated to capital additions.

Cash flow used for investing activities decreased by \$18.6 million to \$434.4 million for the year ended December 31, 2017, compared to \$453.0 million for the year ended December 31, 2016. The decrease was primarily due to less net cash paid for acquisitions which was \$46.0 million greater in 2016 due to the acquisition of the Piscataway and Fort Worth facilities acquired in 2016; offset by higher cash paid for capital expenditures of \$27.4 million in 2017 primarily related to higher redevelopment costs associated with our Irving, Atlanta-Metro, Richmond and Chicago data centers. These expenditures include capitalized soft costs such as interest, payroll and other costs to redevelop the properties, which were, in the aggregate, \$26.9 million and \$22.4 million for the years ended December 31, 2017 and 2016, respectively.

Cash flow provided by financing activities was \$262.7 million for the year ended December 31, 2017, compared to \$300.0 million for the year ended December 31, 2016. The decrease was primarily due to higher net equity proceeds of

\$168.1 million as well as higher payments of cash dividends to common stockholders of \$12.0 million which was primarily due to the increase in shares outstanding primarily related to the April 2016 equity issuance and to a lesser extent the ATM equity issuances during the year ended 2017. Partially offsetting these decreases in cash provided by financing activities were higher net proceeds of \$77.0 million under our unsecured credit facility and higher net proceeds of \$86.8 million associated with the extinguishment and replacement of our senior notes, net of \$13.2 million in debt extinguishment costs, due to additional proceeds being utilized for acquisitions and capital expenditures.

Critical Accounting Policies and Estimates

Our discussion and analysis of our financial condition and results of operations is based upon our financial statements which have been prepared in accordance with GAAP. The preparation of these financial statements in conformity with GAAP requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amount of revenues and expenses during the reporting period. Actual results may differ from these estimates. We have provided a summary of our significant accounting policies in Note 2 of our audited financial statements included elsewhere in this Form 10-K. We describe below accounting policies that require material subjective or complex judgments and that have the most significant impact on our financial condition and results of operations. Our management evaluates these estimates on an ongoing basis, based upon information currently available and on various assumptions management believes are reasonable as of December 31, 2018.

Acquisitions. When accounting for business combinations and asset acquisitions, we are required to make subjective assessments which involve significant judgment to allocate the purchase price paid to the acquired tangible assets and intangible assets and liabilities.

Capitalization of Costs. We capitalize certain redevelopment costs, including internal costs, incurred in connection with redevelopment. The capitalization of costs during the construction period (including interest and related loan fees, property taxes and other direct and indirect costs) begins when redevelopment efforts commence and ends when the asset is ready for its intended use.

Impairment of Long-Lived Assets and Goodwill. Whenever events or changes in circumstances indicate that the carrying amount of the assets may not be recoverable, we assess whether there has been impairment in the value of long-lived assets used in operations or in development and intangible assets. Recoverability of assets to be held and used is generally measured by comparison of the carrying amount to the future net cash flows, undiscounted and without interest, expected to be generated by the asset group. If the net carrying value of the asset exceeds the value of the undiscounted cash flows, the fair value of the asset is assessed and may be considered impaired. An impairment loss is recognized based on the excess of the carrying amount of the impaired asset over its fair value.

The fair value of goodwill is the consideration transferred which is not allocable to identifiable intangible and tangible assets. Goodwill is subject to at least an annual assessment for impairment. In connection with the goodwill impairment evaluation that the Company performed on October 1, 2018, the Company determined qualitatively that it is not more likely than not that the fair value of the Company's one reporting unit was less than the carrying amount, thus it did not perform a quantitative analysis.

Rental Revenue. We, as a lessor, have retained substantially all the risks and benefits of ownership and account for our leases as operating leases. For lease agreements that provide for scheduled rent increases, rental income is recognized on a straight-line basis over the non-cancellable term of the leases, which commences when control of the space has been provided to the customer. Rental revenue also includes amortization of set-up fees which are amortized over the term of the respective lease, as discussed above.

Inflation

Substantially all of our long-term leases—leases with a term greater than three years—contain rent increases and reimbursement for certain operating costs. As a result, we believe that we are largely insulated from the effects of inflation over periods greater than three years. Leases with terms of three years or less will be replaced or renegotiated within three years and should adjust to reflect changed conditions, also mitigating the effects of inflation. Moreover, to the extent that there are material increases in utility costs, we generally reserve the right to renegotiate the rate. However, any increases in the costs of redevelopment of our properties will generally result in a higher cost of the property, which will result in increased cash requirements to redevelop our properties and increased depreciation and amortization

expense in future periods, and, in some circumstances, we may not be able to directly pass along the increase in these redevelopment costs to our customers in the form of higher rental rates.

Distribution Policy

To satisfy the requirements to qualify as a REIT, and to avoid paying tax on our income, QTS intends to continue to make regular quarterly distributions of all, or substantially all, of its REIT taxable income (excluding net capital gains) to its stockholders.

All distributions will be made at the discretion of our board of directors and will depend on our historical and projected results of operations, liquidity and financial condition, QTS' REIT qualification, our debt service requirements, operating expenses and capital expenditures, prohibitions and other restrictions under financing arrangements and applicable law and other factors as our board of directors may deem relevant from time to time. We anticipate that our estimated cash available for distribution will exceed the annual distribution requirements applicable to REITs and the amount necessary to avoid the payment of tax on undistributed income. However, under some circumstances, we may be required to make distributions in excess of cash available for distribution in order to meet these distribution requirements and we may need to borrow funds to make certain distributions. If we borrow to fund distributions, our future interest costs would increase, thereby reducing our earnings and cash available for distribution from what they otherwise would have been.

The Operating Partnership also includes certain partners that are subject to a taxable income allocation, however, not entitled to receive recurring distributions. The partnership agreement does stipulate however, to the extent that taxable income is allocated to these partners that the partnership will make a distribution to these partners equal to the lesser of the actual per unit distributions made to Class A partners or an estimated amount to cover federal, state and local taxes on the allocated taxable income.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Our future income, cash flows and fair values relevant to financial instruments are dependent upon prevailing market interest rates. Market risk refers to the risk of loss from adverse changes in market prices and interest rates. The primary market risk to which we believe we are exposed is interest rate risk. Many factors, including governmental monetary and tax policies, domestic and international economic and political considerations and other factors that are beyond our control, contribute to interest rate risk.

As of December 31, 2018, after consideration of interest rates swaps in effect, we had outstanding \$552.0 million of consolidated indebtedness that bore interest at variable rates which does not take into account \$400 million of swaps that take effect December 17, 2021 and April 27, 2022, and the \$200 million of swaps that take effect on January 2, 2020, each as discussed below.

We monitor our market risk exposures using a sensitivity analysis. Our sensitivity analysis estimates the exposure to market risk sensitive instruments assuming a hypothetical 1% change in year-end interest rates. A 1% increase in interest rates would increase the interest expense on the \$552.0 million of variable indebtedness outstanding as of December 31, 2018 by approximately \$5.5 million annually. Conversely, a decrease in the LIBOR rate to 1.52% would decrease the interest expense on this \$552.0 million of variable indebtedness outstanding by approximately \$5.5 million annually based on the one month LIBOR rate of approximately 2.520% as of December 31, 2018.

On April 5, 2017, the Company entered into forward interest rate swap agreements with an aggregate notional amount of \$400 million. The forward swap agreements effectively fix the interest rate on \$400 million of term loan borrowings, \$200 million of swaps allocated to each term loan, from January 2, 2018 through December 17, 2021 and April 27, 2022, respectively, at approximately 3.3% assuming the current LIBOR spread of 1.3%.

In addition, on December 20, 2018, we entered into additional forward interest rate swap agreements with an aggregate notional amount of \$400 million. The forward swap agreements effectively fix the interest rate on \$400 million of term loan borrowings, \$200 million of swaps allocated to each term loan, from December 17, 2021 and April 27, 2022 through the current maturity dates of the respective term loans which are December 17, 2023 and April 27, 2024, respectively. The weighted average effective fixed interest rate on the \$400 million notional amount of term loan financing following the commencement of these swap agreements will approximate 3.9%, commencing on December 17, 2021 and April 27, 2022, assuming the current LIBOR spread of 1.3%. Additionally, the Company

entered into forward interest rate swap agreements with an aggregate notional amount of \$200 million. The forward swap agreements effectively fix the interest rate on \$200 million of additional term loan borrowings, \$100 million of swaps allocated to each term loan, from January 2, 2020 through the current maturity dates of the respective term loans which are December 17, 2023 and April 27, 2024, respectively. The weighted average effective fixed interest rate on the \$200 million notional amount of term loan financing, following the execution of these swap agreements, will approximate 3.9%, commencing on January 2, 2020, assuming the current LIBOR spread of 1.3%.

The above analyses do not consider the effect of any change in overall economic activity that could impact interest rates or expected changes associated with future indebtedness. Further, in the event of a change of that magnitude, we may take actions to further mitigate our exposure to the change. However, due to the uncertainty of the specific actions that would be taken and their possible effects, these analyses assume no changes in our financial structure.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

See Index to the Financial Statements on page F-1.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

QTS Realty Trust, Inc.

Disclosure Controls and Procedures

Based on an evaluation of disclosure controls and procedures for the period ended December 31, 2018, conducted by the Company's management, with the participation of the Chief Executive Officer and Chief Financial Officer, the Chief Executive Officer and Chief Financial Officer concluded that QTS' disclosure controls and procedures are effective to ensure that information required to be disclosed by QTS in reports that it files or submits under the Securities Exchange Act of 1934 is accumulated and communicated to the Company's management (including the Chief Executive Officer and Chief Financial Officer) to allow timely decisions regarding required disclosure, and is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Rule 13a-15(f) and 15d-15(f) of the Exchange Act). Our internal control system was designed to provide reasonable assurance to management and our board of directors regarding the preparation and fair presentation of published financial statements in accordance with generally accepted accounting principles.

As of December 31, 2018, management assessed the effectiveness of QTS Realty Trust, Inc.'s internal control over financial reporting based on the criteria for effective internal control over financial reporting established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

Based on this assessment, management has concluded that, as of December 31, 2018, QTS Realty Trust, Inc.'s internal control over financial reporting was effective to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Ernst & Young LLP, an independent registered public accounting firm, has audited QTS Realty Trust, Inc.'s consolidated financial statements included in this Annual Report on Form 10-K and, as part of its audit, has issued its

report, included herein on page F-3, on the effectiveness of QTS Realty Trust, Inc.'s internal control over financial reporting.

Changes in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting during the three-month period ended December 31, 2018 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

QualityTech, LP

Disclosure Controls and Procedures

Based on an evaluation of disclosure controls and procedures for the period ended December 31, 2018, conducted by the Company's management, with the participation of the Chief Executive Officer and Chief Financial Officer, the Chief Executive Officer and Chief Financial Officer concluded that QualityTech, LP's disclosure controls and procedures are effective to ensure that information required to be disclosed by QualityTech, LP in reports that it files or submits under the Securities Exchange Act of 1934 is accumulated and communicated to the Company's management (including the Chief Executive Officer and Chief Financial Officer) to allow timely decisions regarding required disclosure, and is recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms.

Management's Report on Internal Control Over Financial Reporting

The Company's management is responsible for establishing and maintaining adequate internal control over financial reporting (as defined in Rule 13a-15(f) and 15d-15(f) of the Exchange Act). Our internal control system was designed to provide reasonable assurance to management and our board of directors regarding the preparation and fair presentation of published financial statements in accordance with generally accepted accounting principles.

As of December 31, 2018, management assessed the effectiveness of QualityTech, LP's internal control over financial reporting based on the criteria for effective internal control over financial reporting established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission.

Based on this assessment, management has concluded that, as of December 31, 2018, QualityTech, LP's internal control over financial reporting was effective to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Changes in Internal Control over Financial Reporting

There were no changes in QualityTech, LP's internal control over financial reporting during the three-month period ended December 31, 2018, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

ITEM 9B. OTHER INFORMATION

None.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

The information regarding directors is incorporated herein by reference from the section entitled "Proposal One: Election of Directors—Nominees for Election as Directors" in the Company's definitive Proxy Statement ("2019 Proxy Statement") to be filed pursuant to Regulation 14A of the Securities Exchange Act of 1934, as amended, for the Company's Annual Meeting of Stockholders to be held on May 9, 2019. The 2019 Proxy Statement will be filed within 120 days after the end of the Company's fiscal year ended December 31, 2018.

The information regarding executive officers is incorporated herein by reference from the section entitled "Executive Officers" in the Company's 2019 Proxy Statement.

The information regarding compliance with Section 16(a) of the Securities Exchange Act of 1934, as amended, is incorporated herein by reference from the section entitled "Security Ownership of Certain Beneficial Owners and Management—Section 16(a) Beneficial Ownership Reporting Compliance" in the Company's 2019 Proxy Statement.

The information regarding the Company's code of business conduct and ethics is incorporated herein by reference from the sections entitled "Corporate Governance and Board Matters—Code of Business Conduct and Ethics" in the Company's 2019 Proxy Statement.

The information regarding the Company's audit committee, its members and the audit committee financial experts is incorporated by reference herein from the section entitled "Corporate Governance and Board Matters—Committees of the Board—Audit Committee" in the Company's 2019 Proxy Statement.

ITEM 11. EXECUTIVE COMPENSATION

The information included under the following captions in the Company's 2019 Proxy Statement is incorporated herein by reference: "Compensation Discussion and Analysis," "Compensation Committee Report," "Compensation of Executive Officers," "Corporate Governance and Board Matters—Compensation of Directors" and "Corporate Governance and Board Matters—Compensation Committee Interlocks and Insider Participation."

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

Information regarding security ownership of certain beneficial owners and management is incorporated herein by reference from the section entitled "Security Ownership of Certain Beneficial Owners and Management" and "Compensation of Executive Officers—Equity Compensation Plan Information" in the Company's 2019 Proxy Statement.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information regarding transactions with related persons and director independence is incorporated herein by reference from the sections entitled "Certain Relationships and Related Party Transactions" and "Corporate Governance and Board Matters—Corporate Governance Profile" in the Company's 2019 Proxy Statement.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

The information regarding principal auditor fees and services and the audit committee's pre-approval policies are incorporated herein by reference from the sections entitled "Proposal Three: Ratification of the Appointment of Independent Registered Public Accounting Firm—Principal Accountant Fees and Services" and "Proposal Three: Ratification of the Appointment of Independent Registered Public Accounting Firm—Pre-Approval Policies and Procedures" in the Company's 2019 Proxy Statement.

PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

The following is a list of documents filed as a part of this report:

(1) Financial Statements

Included herein at pages F-1 through F-43.

(2) Financial Statement Schedules

The following financial statement schedules are included herein at pages F-44 through F-46:

Schedule II—Valuation and Qualifying Accounts

Schedule III—Real Estate Investments

All other schedules for which provision is made in Regulation S-X are either not required to be included herein under the related instructions, are inapplicable or the related information is included in the footnotes to the applicable financial statement and, therefore, have been omitted.

(3) Exhibits

INDEX TO EXHIBITS

Company Americas

Exhibit Number	Exhibit Description
3.1	Articles of Amendment and Restatement of QTS Realty Trust, Inc., incorporated by reference to Exhibit 3.1 to the Current Report on Form 8-K filed with the SEC on October 17, 2013 (Commission File No. 001-36109)
3.2	Second Amended and Restated Bylaws of QTS Realty Trust, Inc., incorporated by reference to Exhibit 3.2 to the Quarterly Report on Form 10-Q filed with the SEC on May 8, 2017 (Commission File No. 001-36109)
3.3	Articles Supplementary designating QTS Realty Trust, Inc.'s 7.125% Series A Cumulative Redeemable Perpetual Preferred Stock, liquidation preference \$25.00 per share, \$0.01 par value per share, incorporated by reference to Exhibit 3.2 to the Company's Form 8-A filed on March 15, 2018 (Commission File No. 001-36109)
3.4	Articles Supplementary designating QTS Realty Trust, Inc.'s 6.50% Series B Cumulative Convertible Perpetual Preferred Stock, liquidation preference \$100.00 per share, \$0.01 par value per share, incorporated by reference to Exhibit 3.3 to the Company's Form 8-A filed on June 25, 2018 (Commission File No. 001-36109)
3.5	Articles Supplementary opting out of the Maryland Unsolicited Takeovers Act, incorporated by reference to Exhibit 3.1 to the Company's Form 8-K filed on September 25, 2018 (Commission File No. 001-36109)
4.1	Form of Specimen Class A Common Stock Certificate, incorporated by reference to Exhibit 4.1 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
4.2	Indenture, dated November 8, 2017, by and among QualityTech, LP, QTS Finance Corporation, QTS Realty Trust, Inc., certain subsidiaries of QualityTech, LP and Deutsche Bank Trust Company Americas, incorporated by reference to Exhibit 4.1 to the Current Report on Form 8-K filed with the SEC on November 8, 2017 (Commission File No. 001-36109)
4.3	Form of 4.750% Senior Notes due 2025 (included as Exhibit A to Exhibit 4.1 hereof)
4.4	Supplemental Indenture, dated as of December 22, 2017, by and among QualityTech, LP, QTS Finance Corporation, QTS Realty Trust, Inc., the entities identified therein as Guaranteeing Subsidiaries, the entities identified therein as Subsidiary Guarantors, and Deutsche Bank Trust Company Americas, to the Indenture dated, as of November 8, 2017, by and among QualityTech, LP, and QTS Finance Corporation, as issuers, QTS Realty Trust, Inc., each of the subsidiary guarantors party thereto, and Deutsche Bank Trust Company Americas, as trustee incorporated by reference to Exhibit 4.4 to the Annual Report on Form 10-K filed with the SEC on February 28, 2018 (Commission File No. 001-36109)
4.5	Form of stock certificate evidencing the 7.125% Series A Cumulative Redeemable Perpetual Preferred Stock, liquidation preference \$25.00 per share, \$0.01 par value per share, incorporated by reference to Exhibit 4.1 to the Company's Form 8-A filed on March 15, 2018 (Commission File No. 001-36109)
4.6	Form of stock certificate evidencing the 6.50% Series B Cumulative Convertible Perpetual Preferred Stock, liquidation preference \$100.00 per share, \$0.01 par value per share, incorporated by reference to Exhibit 4.1 to the Company's Form 8-A filed on June 25, 2018 (Commission File No. 001-36109)
4.7	Supplemental Indenture dated as of December 31, 2018 among West Midtown Acquisition Company, LLC, QualityTech, LP, QTS Finance Corporation, QTS Realty Trust, Inc., the Subsidiary Guarantors (as such term is defined in the Indenture), and Deutsche Bank Trust Company Americas, as trustee, to the Indenture dated, as o November 8, 2017, by and among QualityTech, LP, and QTS Finance Corporation, as issuers, QTS Realty Trust, Inc., each of the subsidiary guarantors party thereto, and Deutsche Bank Trust Company Americas, as trustee, (the "Indenture") as amended by the Supplemental Indenture, dated as of December 22, 2017, by and among QualityTech, LP, QTS Finance Corporation, QTS Realty Trust, Inc., the entities identified therein as

among QualityTech, LP, QTS Finance Corporation, QTS Realty Trust, Inc., the entities identified therein as Guaranteeing Subsidiaries, the entities identified therein as Subsidiary Guarantors, and Deutsche Bank Trust

- 10.1 Fifth Amended and Restated Agreement of Limited Partnership of QualityTech, LP dated October 15, 2013 incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on October 17, 2013 (Commission File No. 001-36109)
- 10.2 Employment Agreement dated as of February 16, 2015 by and among QualityTech, LP, QTS Realty Trust, Inc., Quality Technology Services, LLC and Stanley M. Sword†, incorporated by reference to Exhibit 10.10 to QualityTech, LP's Registration Statement on Form S-4/A filed with the SEC on March 19, 2015 (Commission File No. 333-201810)
- 10.3 Employment Agreement dated as of August 31, 2016 by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and Steven Bloom†, incorporated by reference to Exhibit 10.3 to the Quarterly Report on Form 10-Q filed with the SEC on November 9, 2016 (Commission File No. 001-36109)
- 10.4 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and Chad L. Williams†, incorporated by reference to Exhibit 10.13 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 001-36109)
- 10.5 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and William H. Schafer†, incorporated by reference to Exhibit 10.14 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.6 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and James H. Reinhart†, incorporated by reference to Exhibit 10.15 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.7 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and Daniel T. Bennewitz†, incorporated by reference to Exhibit 10.16 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.8 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and Jeffrey H. Berson†, incorporated by reference to Exhibit 10.17 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.9 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and Shirley E. Goza†, incorporated by reference to Exhibit 10.18 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.10 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and John W. Barter†, incorporated by reference to Exhibit 10.19 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.11 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and William O. Grabe†, incorporated by reference to Exhibit 10.20 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.12 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and Catherine R. Kinney†, incorporated by reference to Exhibit 10.21 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.13 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and Peter A. Marino†, incorporated by reference to Exhibit 10.22 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.14 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and Scott D. Miller†, incorporated by reference to Exhibit 10.23 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)

- 10.15 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and Philip P. Trahanas†, incorporated by reference to Exhibit 10.24 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.16 Indemnification Agreement dated as of September 25, 2013 by and between QTS Realty Trust, Inc. and Stephen E. Westhead†, incorporated by reference to Exhibit 10.25 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.17 Indemnification Agreement dated as of February 16, 2015 by and between QTS Realty Trust, Inc. and Stanley M. Sword†, incorporated by reference to Exhibit 10.18 to the Form 10-K for the year ended December 31, 2015 filed with the SEC on February 29, 2016 (Commission File No. 001-36109)
- 10.18 Indemnification Agreement dated as of March 21, 2016 by and between QTS Realty Trust, Inc. and Jon Greaves†, incorporated by reference to Exhibit 10.30 to the Form 10-K for the year ended December 31, 2016 filed with the SEC on March 1, 2017 (Commission File No. 001-36109)
- 10.19 Indemnification Agreement dated as of August 31, 2016 by and between QTS Realty Trust, Inc. and Steven Bloom†, incorporated by reference to Exhibit 10.31 to the Form 10-K for the year ended December 31, 2016 filed with the SEC on March 1, 2017 (Commission File No. 001-36109)
- 10.20 Non-Competition Agreement dated as of June 29, 2012 by and among Quality Technology Services, LLC and James H. Reinhart†, incorporated by reference to Exhibit 10.14 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.21 Non-Competition Agreement dated as of June 29, 2012 by and among Quality Technology Services, LLC and Daniel T. Bennewitz†, incorporated by reference to Exhibit 10.15 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.22 Registration Rights Agreement dated October 15, 2013 by and among QTS Realty Trust, Inc. and the parties listed on Schedule I thereto, incorporated by reference to Exhibit 10.2 to the Current Report on Form 8-K filed with the SEC on October 17, 2013 (Commission File No. 001-36109)
- 10.23 Amended and Restated Registration Rights Agreement dated October 15, 2013 by and among QTS Realty Trust, Inc., QualityTech GP, LLC and GA QTS Interholdco, LLC, incorporated by reference to Exhibit 10.3 to the Current Report on Form 8-K filed with the SEC on October 17, 2013 (Commission File No. 001-36109)
- 10.24 Amended and Restated Registration Rights Agreement dated October 15, 2013 by and among QTS Realty Trust, Inc., QualityTech GP, LLC, Chad L. Williams and certain entities owned or controlled by Chad L. Williams, incorporated by reference to Exhibit 10.4 to the Current Report on Form 8-K filed with the SEC on October 17, 2013 (Commission File No. 001-36109)
- 10.25 Tax Protection Agreement dated as of October 15, 2013 by and among QTS Realty Trust, Inc., QualityTech, LP and the signatories party thereto, incorporated by reference to Exhibit 10.5 to the Current Report on Form 8-K filed with the SEC on October 17, 2013 (Commission File No. 001-36109)
- 10.26 QualityTech, LP 2010 Equity Incentive Plan†, incorporated by reference to Exhibit 10.20 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.27 Amendment No. 1 to QualityTech, LP 2010 Equity Incentive Plan†, incorporated by reference to Exhibit 10.21 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.28 Form of Class O Unit Award Agreement (Time-Based Vesting) under QualityTech, LP 2010 Equity Incentive Plan†, incorporated by reference to Exhibit 10.22 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)

- 10.29 Form of Class O Unit Award Agreement (Performance-Based Vesting) under QualityTech, LP 2010 Equity Incentive Plan†, incorporated by reference to Exhibit 10.23 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.30 Form of Class O Unit Award Agreement under QualityTech, LP 2010 Equity Incentive Plan†, incorporated by reference to Exhibit 10.24 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.31 Form of Class RS Unit Award Agreement (Time-Based Vesting) under QualityTech, LP 2010 Equity Incentive Plan†, incorporated by reference to Exhibit 10.25 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.32 Form of Class RS Unit Award Agreement (Performance-Based Vesting) under QualityTech, LP 2010 Equity Incentive Plan†, incorporated by reference to Exhibit 10.26 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.33 QTS Realty Trust, Inc. 2013 Equity Incentive Plan†, incorporated by reference to Exhibit 10.39 to the Registration Statement on Form S-11/A filed with the SEC on September 26, 2013 (Commission File No. 333-190675)
- 10.34 Amendment No. 1 to QTS Realty Trust, Inc. 2013 Equity Incentive Plan†, incorporated by reference to Exhibit 10.40 to the Annual Report on Form 10-K for the year ended December 31, 2014 filed with the SEC on February 23, 2015 (Commission File No. 001-36109)
- 10.35 Amendment No. 2 to QTS Realty Trust, Inc. 2013 Equity Incentive Plan†, incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on May 6, 2015 (Commission File No. 001-36109)
- 10.36 Form of Restricted Shares Agreement under QTS Realty Trust, Inc. 2013 Equity Incentive Plan†, incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on November 6, 2013 (Commission File No. 001-36109)
- 10.37 Form of Non-Qualified Option Agreement under QTS Realty Trust, Inc. 2013 Equity Incentive Plan†, incorporated by reference to Exhibit 10.29 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.38 Employee Stock Purchase Plan, effective July 1, 2015, incorporated by reference to Exhibit 99.1 to the Registration Statement on Form S-8 filed with the SEC on June 17, 2015 (Commission File No. 333-205040)
- 10.39 Ground Lease, dated October 2, 1997, by and between Mission-West Valley Land Corporation, as landlord, and Nexus Properties, Inc., Kinetic Systems, Inc., Digital Square, Inc., R. Darrell Gary, Michael J. Reidy and Michael J. Reidy as trustee of the Ronald Bonaguidi irrevocable trust, together as tenants, incorporated by reference to Exhibit 10.33 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.40 First Amendment to Ground Lease, dated April 29, 1998, by and between Mission-West Valley Land Corporation, as landlord, and Nexus Properties, Inc., Kinetic Systems, Inc., R. Darrell Gary, Michael J. Reidy and Michael J. Reidy as trustee of the Ronald Bonaguidi irrevocable trust, together as tenants, incorporated by reference to Exhibit 10.34 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.41 Second Amendment to Ground Lease, dated September 24, 2009, by and between Mission-West Valley Land Corporation, as landlord, and Quality Investment Properties Santa Clara, LLC, Chad L. Williams, incorporated by reference to Exhibit 10.35 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)

- 10.42 Third Amendment to Ground Lease, dated November 17, 2011, by and between Mission-West Valley Land Corporation, as landlord, and Quality Investment Properties Santa Clara, LLC, Chad L. Williams, incorporated by reference to Exhibit 10.36 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.43 Lease Agreement, dated January 1, 2009, by and between Quality Investment Properties-Williams Center, L.L.C. and Quality Technology Services Lenexa, LLC, incorporated by reference to Exhibit 10.38 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.44 First Amendment to Lease, dated March 1, 2013, by and between Quality Investment Properties-Williams Center, L.L.C. and Quality Technology Services Lenexa, LLC, incorporated by reference to Exhibit 10.39 to the Registration Statement on Form S-11/A filed with the SEC on August 16, 2013 (Commission File No. 333-190675)
- 10.45 Second Amendment to Lease, dated December 1, 2013, by and between Quality Investment Properties-Williams Center, L.L.C. and Quality Technology Services Lenexa, LLC, incorporated by reference to Exhibit 10.1 to the Quarterly Report on Form 10-Q filed with the SEC on May 7, 2014 (Commission File No. 001-36109)
- 10.46 Third Amendment to Lease, dated May 1, 2014, by and between Quality Investment Properties-Williams Center, L.L.C. and Quality Technology Services Lenexa, LLC, incorporated by reference to Exhibit 10.2 to the Quarterly Report on Form 10-Q filed with the SEC on May 7, 2014 (Commission File No. 001-36109)
- 10.47 2017 Amended and Restated QTS Realty Trust, Inc. Employee Stock Purchase Plan†, incorporated by reference to Appendix A on the Company's proxy statement on Schedule 14A filed with the SEC on March 20, 2017 (Commission File No. 001-36109)
- 10.48 Employment Agreement, dated April 11, 2017, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC and Chad L. Williams†, incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on April 14, 2017 (Commission File No. 001-36109)
- 10.49 Employment Agreement, dated April 11, 2017, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC and Jeffrey H. Berson†, incorporated by reference to Exhibit 10.2 to the Current Report on Form 8-K filed with the SEC on April 14, 2017 (Commission File No. 001-36109)
- 10.50 Employment Agreement dated February 16, 2017, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services Holding, LLC, Quality Technology Services, LLC, and William H. Schafer†, incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on February 21, 2017 (Commission File No. 001-36109)
- 10.51 Employment Agreement, dated April 11, 2017, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC and James H. Reinhart†, incorporated by reference to Exhibit 10.4 to the Current Report on Form 8-K filed with the SEC on April 14, 2017 (Commission File No. 001-36109)
- 10.52 Employment Agreement, dated April 11, 2017, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC and Daniel T. Bennewitz†, incorporated by reference to Exhibit 10.3 to the Current Report on Form 8-K filed with the SEC on April 14, 2017 (Commission File No. 001-36109)
- 10.53 Employment Agreement, dated April 11, 2017, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC and Shirley E. Goza†, incorporated by reference to Exhibit 10.7 to the Quarterly Report on Form 10-Q filed with the SEC on May 8, 2017 (Commission File No. 001-36109)
- 10.54 Employment Agreement, dated April 11, 2017, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC and Jon D. Greaves†, incorporated by reference to Exhibit 10.8 to the Quarterly Report on Form 10-Q filed with the SEC on May 8, 2017 (Commission File No. 001-36109)

- 10.55 Employment Agreement, dated April 11, 2017, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC and Steven C. Bloom†, incorporated by reference to Exhibit 10.9 to the Quarterly Report on Form 10-Q filed with the SEC on May 8, 2017 (Commission File No. 001-36109)
- 10.56 Amendment to Employment Agreement dated June 23, 2017 by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and Chad L. Williams†, incorporated by reference to Exhibit 10.1 to the Quarterly Report on Form 10-Q filed with the SEC on August 3, 2017 (Commission File No. 001-36109)
- 10.57 Amendment to Employment Agreement dated June 23, 2017 by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and Jeffrey H. Berson†, incorporated by reference to Exhibit 10.2 to the Quarterly Report on Form 10-Q filed with the SEC on August 3, 2017 (Commission File No. 001-36109)
- 10.58 Amendment to Employment Agreement dated June 23, 2017 by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and William H. Schafer†, incorporated by reference to Exhibit 10.3 to the Quarterly Report on Form 10-Q filed with the SEC on August 3, 2017 (Commission File No. 001-36109)
- 10.59 Amendment to Employment Agreement dated June 23, 2017 by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and Daniel T. Bennewitz†, incorporated by reference to Exhibit 10.4 to the Quarterly Report on Form 10-Q filed with the SEC on August 3, 2017 (Commission File No. 100-36109)
- 10.60 Amendment to Employment Agreement dated June 23, 2017 by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and James H. Reinhart†, incorporated by reference to Exhibit 10.5 to the Quarterly Report on Form 10-Q filed with the SEC on August 3, 2017 (Commission File No. 001-36109)
- 10.61 Amendment to Employment Agreement dated June 23, 2017 by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and Shirley E. Goza†, incorporated by reference to Exhibit 10.6 to the Quarterly Report on Form 10-Q filed with the SEC on August 3, 2017 (Commission File No. 001-36109)
- 10.62 Amendment to Employment Agreement dated June 23, 2017 by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and Steven C. Bloom†, incorporated by reference to Exhibit 10.7 to the Quarterly Report on Form 10-Q filed with the SEC on August 3, 2017 (Commission File No. 001-36109)
- 10.63 Amendment to Employment Agreement dated June 23, 2017 by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and Jon D. Greaves†, incorporated by reference to Exhibit 10.8 to the Quarterly Report on Form 10-Q filed with the SEC on August 3, 2017 (Commission File No. 001-36109)
- 10.64 Amendment No. 2 to Employment Agreement dated March 15, 2018 by and among QTS Realty Trust, Inc., QualityTech, L.P., Quality Technoloy Services, LLC, and James Reinhart†, incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on March 16, 2018 (Commission File No.001-36109)
- 10.65 Employment Agreement, dated March 15, 2018, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services Holding, LLC, Quality Technology Services, LLC, and David Robey†, incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on March 20, 2018 (Commission File No. 001-36109)
- 10.66 Third Amendment to Employment Agreement, dated June 29, 2018, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and William H. Schafer†, incorporated by reference to Exhibit 10.7 to the Company's Quarterly Report on Form 10-Q filed on August 6, 2018 (Commission File No. 001-36109)

- 10.67 Second Amendment to Employment Agreement, dated June 5, 2018, by and among QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC, and William H. Schafer†, incorporated by reference to Exhibit 10.5 to the Company's Quarterly Report on Form 10-Q filed on August 6, 2018 (Commission File No. 001-36109)
- 10.68 Transition Agreement & Release of All Claims, dated as of May 3, 2018, by and between QTS Realty Trust, Inc., QualityTech, LP, Quality Technology Services, LLC and all related companies, and all related companies and Daniel T. Bennewitz†, incorporated by reference to Exhibit 10.6 to the Company's Quarterly Report on Form 10-Q filed on August 6, 2018 (Commission File No. 001-36109)
- 10.69 Amendment No. 4 Employment Agreement dated as of August 6, 2018 by and among QTS Realty Trust, Inc., QualityTech. LP. Quality Technology Services, LLC and William Schafer†, incorporated by reference to Exhibit 10.1 to the Company's Form 8-K filed on August 10, 2018 (Commission File No. 001-36109)
- 10.70 Indemnification Agreement, dated as of September 24, 2018, by and among QTS Realty Trust, Inc. and Mazen Al-Rawashdeh†, incorporated by reference to Exhibit 10.1 to the Company's Form 8-K filed on September 25, 2018 (Commission File No. 001-36109)
- 10.71 Stock Purchase Agreement dated May 6, 2016 by and among Quality Technology Services Holding, LLC, Carpathia Holdings, LLC and Carpathia Acquisition, Inc., incorporated by reference to Exhibit 2.1 to the Current Report on Form 8-K filed with the SEC on May 12, 2015 (Commission File No. 002-36109)
- 10.72 First Amendment to Stock Purchase Agreement dated May 6, 2016 by and among Quality Technology Services Holding, LLC, Carpathia Holdings, LLC and Carpathia Acquisition, Inc., incorporated by reference to Exhibit 2.1 to the Current Report on Form 8-K filed with the SEC on June 19, 2015 (Commission File No. 001-36109)
- 10.73 Amendment No. 1 to the Fifth Amended and Restated Agreement of Limited Partnership of QualityTech, LP incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on March 20, 2018 (Commission File No.001-36109)
- 10.74 Amendment No. 2 to Fifth Amended and Restated Agreement of Limited Partnership of QualityTech, LP, dated as of June 25 2018, by QTS Realty Trust, Inc., incorporated by reference to Exhibit 10.1 to the Company's Form 8-K filed on June 27, 2018 (Commission File No. 001-36109)
- 10.75 Transaction Agreement, dated as of April 24, 2018, by and between QTS Technology Services Holding, LLC, QualityTech, LP, and General Datatech, L.P., incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed on August 6, 2018 (Commission File No. 001-36109)
- 10.76 Channel Agreement, dated as of April 24, 2018, by and between QTS Technology Services Holding, LLC and General Datatech, L.P., incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed on August 6, 2018 (Commission File No. 001-36109)
- 10.77 Transition Services Agreement, dated as of April 24, 2018, by and between QTS Technology Services Holding, LLC, QualityTech, LP, and General Datatech, L.P., incorporated by reference to Exhibit 10.4 to the Company's Quarterly Report on Form 10-Q filed on August 6, 2018 (Commission File No. 001-36109)
- 10.78 Amendment No. 3 to the Fifth Amended and Restated Agreement of Limited Parnership of QualityTech, LP, incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on October 16, 2018 (Commission File No.001-36109)
- 10.79 Sixth Amended and Restated Credit Agreement dated as of November 30, 2018 by and among QualityTech, LP, as borrower, KeyBank National Association, as agent, the lenders party thereto, KeyBanc Capital Markets, Inc., Merrill Lynch, Pierce, Fenner & Smith Incorporated, Regions Capital Markets and TD Securities (USA) LLC, as joint lead arrangers and joint bookrunners, and Bank of America, N.A., Regions Bank and TD Securities (USA) LLC, as co-syndication agents., incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on December 6, 2018 (Commission File No.001-36109)

- 10.80 Fourth Amended and Restated Unconditional Guaranty of Payment and Performance dated as of November 30, 2018 by QTS Realty Trust, Inc. (to KeyBank National Association)., incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on December 6, 2018 (Commission File No.001-36109)
- 10.81 Indemnification Agreement, dated as of February 20, 2018, by and between QTS Realty Trust, Inc. and David Robey†, incorporated by reference to Exhibit 10.1 to the Current Report on Form 8-K filed with the SEC on February 20, 2018 (Commission File No. 001-36109)
- 10.82 QTS Realty Trust, Inc. Director Deferred Compensation Plan, effective January 1, 2018 †, incorporated by reference to Exhibit 10.5 to the Company's Quarterly Report on Form 10-Q filed with the SEC on May 10, 2018 (Commission File No. 001-36109).
- 21.1 List of Subsidiaries of QTS Realty Trust, Inc. and QualityTech, LP
- 23.1 Consent of Ernst & Young LLP
- 31.1 Certification of Chief Executive Officer pursuant to Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934, as amended, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (QTS Realty Trust, Inc.)
- 31.2 Certification of Chief Financial Officer pursuant to Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934, as amended, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (QTS Realty Trust, Inc.)
- 31.3 Certification of Chief Executive Officer pursuant to Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934, as amended, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (QualityTech, LP)
- 31.4 Certification of Chief Financial Officer pursuant to Rule 13a-14(a)/15d-14(a) of the Securities Exchange Act of 1934, as amended, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (QualityTech, LP)
- 32.1 Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (QTS Realty Trust, Inc.)
- 32.2 Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (QualityTech, LP)
- The following materials from QTS Realty Trust, Inc.'s and QualityTech, LP's Annual Report on Form 10-K for the year ended December 31, 2018, formatted in XBRL (eXtensible Business Reporting Language):
 (i) consolidated balance sheets, (ii) consolidated statements of operations and statements of comprehensive income, (iii) consolidated statements of equity and partners' capital, (iv) consolidated statements of cash flows, and (v) the notes to the consolidated financial statements

ITEM 16. FORM 10-K SUMMARY

The Company has chosen not to include a Form 10-K Summary.

[†] Denotes a management contract or compensatory plan, contract or arrangement.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

QTS Realty Trust, Inc.

DATE: February 25, 2019 /s/ Chad L. Williams

Chad L. Williams

Chairman and Chief Executive Officer

DATE: February 25, 2019 /s/ William H. Schafer

William H. Schafer

Executive Vice President – Finance and Accounting

(Principal Accounting Officer)

DATE: February 25, 2019 /s/ Jeffrey H. Berson

Jeffrey H. Berson Chief Financial Officer (Principal Financial Officer)

QualityTech, L.P.

DATE: February 25, 2019 /s/ Chad L. Williams

Chad L. Williams

Chairman and Chief Executive Officer

DATE: February 25, 2019 /s/ William H. Schafer

William H. Schafer

Executive Vice President – Finance and Accounting

(Principal Accounting Officer)

DATE: February 25, 2019 /s/ Jeffrey H. Berson

Jeffrey H. Berson Chief Financial Officer (Principal Financial Officer) Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, this report has been signed below by the following persons on behalf of the registrant and in the capacities on the dates indicated.

DATE: February 25, 2019	/s/ Chad L. Williams Chad L. Williams Chairman and Chief Executive Officer
DATE: February 25, 2019	/s/ John W. Barter John W. Barter Director
DATE: February 25, 2019	/s/ William O. Grabe William O. Grabe Director
DATE: February 25, 2019	/s/ Catherine R. Kinney Catherine R. Kinney Director
DATE: February 25, 2019	/s/ Peter A. Marino Peter A. Marino Director
DATE: February 25, 2019	/s/ Scott D. Miller Scott D. Miller Director
DATE: February 25, 2019	/s/ Mazen Rawashdeh Mazen Rawasdeh Director
DATE: February 25, 2019	/s/ Philip P. Trahanas Philip P. Trahanas Director
DATE: February 25, 2019	/s/ Stephen E. Westhead Stephen E. Westhead Director

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

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REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of QTS Realty Trust, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of QTS Realty Trust, Inc. (the Company) as of December 31, 2018 and 2017, the related consolidated statements of operations, comprehensive income (loss), equity and cash flows for each of the three years in the period ended December 31, 2018, and the related notes and financial statement schedules listed in the Index at Item 15 (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with U.S. generally accepted accounting principles.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control-Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) and our report dated February 25, 2019 expressed an unqualified opinion thereon.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Ernst & Young LLP We have served as the Company's auditor since 2010 Kansas City, Missouri February 25, 2019

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of QTS Realty Trust, Inc.

Opinion on Internal Control Over Financial Reporting

We have audited QTS Realty Trust, Inc.'s internal control over financial reporting as of December 31, 2018, based on criteria established in Internal Control—Integrated Framework issued by the Committee of Sponsoring Organizations of the Treadway Commission (2013 framework) (the COSO criteria). In our opinion, QTS Realty Trust, Inc. (the Company) maintained, in all material respects, effective internal control over financial reporting as of December 31, 2018, based on the COSO criteria.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated balance sheets of QTS Realty Trust, Inc. (the Company) as of December 31, 2018 and 2017, the related consolidated statements of operations, comprehensive income (loss), equity and cash flows for each of the three years in the period ended December 31, 2018, and the related notes and financial statement schedules listed in the Index at Item 15 (collectively referred to as the "consolidated financial statements")and our report dated February 25, 2019 expressed an unqualified opinion thereon.

Basis for Opinion

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's Report on Internal Control over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and Limitations of Internal Control Over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP Kansas City, Missouri February 25, 2019

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Stockholders and the Board of Directors of QTS Realty Trust, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of QualityTech, LP (the Company) as of December 31, 2018 and 2017, the related consolidated statements of operations, comprehensive income (loss), partners' capital and cash flows for each of the three years in the period ended December 31, 2018, and the related notes and financial statement schedules listed in the Index at Item 15 (collectively referred to as the "consolidated financial statements"). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company at December 31, 2018 and 2017, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2018, in conformity with U.S. generally accepted accounting principles.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB and in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Ernst & Young LLP We have served as the Company's auditor since 2010 Kansas City, Missouri February 25, 2019

QTS REALTY TRUST, INC. CONSOLIDATED BALANCE SHEETS (in thousands except share and per share data)

ACCEPTE	December 31, 2018	December 31, 2017
ASSETS Real Estate Assets		
	\$ 105,541	\$ 88,216
	1,917,251	1,701,287
Buildings, improvements and equipment		
Less: Accumulated depreciation	(467,644)	(394,823)
	1,555,148	1,394,680
Construction in progress	790,064	567,819
Real Estate Assets, net.	2,345,212	1,962,499
Cash and cash equivalents	11,759	8,243
Rents and other receivables, net.	55,093	47,046
Acquired intangibles, net	95,451	109,451
Deferred costs, net	45,096	41,545
Prepaid expenses	6,822	6,163
Goodwill	173,843	173,843
Assets held for sale	71,800	_
Other assets, net	56,893	66,266
TOTAL ASSETS	\$ 2,861,969	\$ 2,415,056
LIABILITIES Unsecured credit facility, net. Senior notes, net of debt issuance costs. Capital lease, lease financing obligations and mortgage notes payable. Accounts payable and accrued liabilities. Dividends and distributions payable. Advance rents, security deposits and other liabilities.	\$ 945,657 394,786 4,674 99,166 29,633 32,679	\$ 825,186 394,178 10,565 113,430 22,222 28,903
Liabilities held for sale	24,349	_
Deferred income taxes	1,097	4,611
Deferred income	33,241	25,305
TOTAL LIABILITIES	1,565,282	1,424,400
FQUITY 7.125% Series A cumulative redeemable perpetual preferred stock: \$0.01 par value (liquidation preference \$25.00 per share), 4,600,000 shares authorized, 4,280,000 shares issued and outstanding as of December 31, 2018; zero shares authorized, issued and outstanding as of December 31, 2017. 6.50% Series B cumulative convertible perpetual preferred stock: \$0.01 par value (liquidation preference \$100.00 per share), 3,162,500 shares authorized, issued and outstanding as of December 31, 2018; zero shares authorized, issued and outstanding as of December 31, 2017.	103,212 304,265	_
Common stock: \$0.01 par value, 450,133,000 shares authorized, 51,123,417 and 50,701,795 shares issued and outstanding as of December 31, 2018 and		
December 31, 2017, respectively	511	507
Additional paid-in capital	1,062,473	1,049,176
Accumulated other comprehensive income	2,073	1,283
Accumulated dividends in excess of earnings	(278,548)	(173,552)
Total stockholders' equity	1,193,986	877,414
Noncontrolling interests.	102,701	113,242
TOTAL EQUITY	1,296,687	990,656
TOTAL LIABILITIES AND EQUITY	\$ 2,861,969	\$ 2,415,056

QTS REALTY TRUST, INC. CONSOLIDATED STATEMENTS OF OPERATIONS (in thousands except share and per share data)

	Ye	ar Eı	ided December	31,	
	2018		2017		2016
Revenues:					
Rental	\$ 360,828	\$	335,819	\$	295,723
Recoveries from customers	45,386		37,886		29,271
Cloud and managed services	35,712		65,466		68,488
Other	 8,598		7,339		8,881
Total revenues	450,524		446,510	· ·	402,363
Operating Expenses:					
Property operating costs	148,236		153,209		136,488
Real estate taxes and insurance	12,193		11,959		8,840
Depreciation and amortization	149,891		140,924		124,786
General and administrative.	80,857		87,231		83,286
Transaction, integration and impairment costs	2,743		11,060		10,906
Restructuring	37,943		· —		_
Total operating expenses	431,863		404,383	_	364,306
Operating income	18,661		42,127		38,057
Other income and expenses:					
Interest income	150		67		3
Interest expense	(28,749)		(30,523)		(23,159)
Debt restructuring costs	 (605)		(19,992)		(192)
Income (loss) before taxes	(10,543)		(8,321)		14,709
Tax benefit of taxable REIT subsidiaries	 3,368		9,778		9,976
Net income (loss)	(7,175)		1,457		24,685
Net (income) loss attributable to noncontrolling interests	 2,715		(175)		(3,160)
Net income (loss) attributable to QTS Realty Trust, Inc	(4,460)		1,282		21,525
Preferred stock dividends	(16,666)				
Net income (loss) attributable to common stockholders	\$ (21,126)	\$	1,282	\$	21,525
Net income per share attributable to common shares:					
Basic	\$ (0.44)	\$	0.01	\$	0.47
Diluted	(0.44)		0.01		0.46
Weighted average common shares outstanding:					
Basic	50,432,590		48,380,964		46,205,937
Diluted	50,432,590		55,855,683		53,962,234

QTS REALTY TRUST, INC. CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS) (in thousands)

	Year	r End	ed Decembe	r 31,	
	2018		2017		2016
Net income (loss)	\$ (7,175)	\$	1,457	\$	24,685
Other comprehensive income (loss):					
Increase in fair value of interest rate swaps	895		1,449		
Reclassification of other comprehensive income to interest expense	110		_		_
Comprehensive income (loss)	(6,170)		2,906		24,685
Comprehensive (income) loss attributable to noncontrolling interests	 711		(349)		(3,160)
Comprehensive income (loss) attributable to QTS Realty Trust, Inc	\$ (5,459)	\$	2,557	\$	21,525

QTS REALTY TRUST, INC.
CONSOLIDATED STATEMENTS OF EQUITY
(in thousands)

	Preferred Stock	d Stock	Common stock	n stock	Additional	Acc other co	Accumulated other comprehensive		Accumulated dividends in	Total stockholders'		Noncontrolling	rolling		
	Shares	Amount	Shares	Amount	paid-in capital	_	income		excess of earnings	equity		interest	rest	Total	
Balance January 1, 2016	-	I	41,226	\$ 412	\$ 670,275	\$		s	(52,732)	\$ 61	617,955	\$ 1	110,101	998'612	1
Net share activity through equity award plan			280	3	9								(1,726)	(1,726)	_
Equity-based compensation expense					9,229	_			l		9,229		1,355	10,584	
Net proceeds from equity offering			6,325	63	252,282					25	252,345		23,517	275,862	
Dividends to shareholders					ı				(66,586)	9)	(985,99)			(66,586)	_
Distributions to noncontrolling interests													(9,875)	(9,875)	_
Net income		1	I	1	l				21,525	2	21,525		3,160	24,685	
Balance December 31, 2016	-		47,831	\$ 478	\$ 931,783	s>.		se.	(97,793)	\$ 83	834,468	\$ 1	118,342	\$ 952,810	I _
Net share activity through equity award ulan	I	١	582	9	893		١		١		866		123	1 022	
Reclassification of noncontrolling interest upon conversion			1										1	1,0,1	
of partnership units to common stock			253	æ	8,352	_,					8,355		(8,355)		
Increase in fair value of interest rate swaps							1,283				1,283		166	1,449	
Equity-based compensation expense	1				12,196				1	_	12,196		1,667	13,863	
Net proceeds from equity offering		I	2,036	20	95,952	- 1			1	6	95,972		11,523	107,495	
Dividends to shareholders			1						(77,041)	(7	(77,041)		I	(77,041)	_
Distributions to noncontrolling interests					ı							_	10,399)	(10,399)	_
Net income		١							1,282		1,282		175	1,457	
Balance December 31, 2017	\$		50,702	\$ 507	\$ 1,049,176	\$	1,283	s	(173,552)	\$ 87	877,414	\$ 1	113,242	959'066 9	l
Net share activity through equity award plan.	I	I	421	4	(2,717)				I	_	(2,713)		925	(1,788)	_
Increase in fair value of interest rate swaps					;	` .	790				790		105	895	
Equity-based compensation expense					16,014					_	16,014		2,086	18,100	_
Net proceeds from Series A Preferred Stock offering	4,280	103,212	1		ı					10	103,212			103,212	
Net proceeds from Series B Preferred Stock offering	3,163	304,265	I	1	l					30	304,265		I	304,265	
Dividends on the Series A Preferred Stock					l				(6,046)		(6,046)			(6,046)	_
Dividends on the Series B Convertible Preferred Stock		I			ı				(10,621)	Ū	(10,621)			(10,621)	_
Dividends to common stockholders									(83,869)	8)	(83,869)			(83,869)	_
Distributions to noncontrolling interests												_	(10,942)	(10,942)	_
Net loss		١	١						(4,460))	(4,460)		(2,715)	(7,175)	_
Balance December 31, 2018	7,443 \$	\$ 407,477	51,123	\$ 511	\$ 1,062,473	59	2,073	S	(278,548)	\$ 1,19	1,193,986	\$ 1	102,701	\$ 1,296,687	. 11

See accompanying notes to financial statements.

QTS REALTY TRUST, INC. CONSOLIDATED STATEMENTS OF CASH FLOW (in thousands)

	Ye	ar Ended Decembe	r 31.
	2018	2017	2016
Cash flow from operating activities:			
Net income (loss)	\$ (7,175)	\$ 1,457	\$ 24,685
Adjustments to reconcile net income (loss) to net cash provided by operating activities:			
Depreciation and amortization	143,354	136,585	120,805
Above/Below Market Lease Amortization.	465	865	659
Amortization of deferred loan costs	3,856	3,640	3,285
Amortization of senior notes discount	_	229	261
Loss on extinguishment of debt.	_	19,912	_
Equity-based compensation expense	14,972	13,863	10,584
Bad debt expense (recoveries).	(2,275)		1,752
Write off of deferred loan costs.	605	80	224
Deferred tax benefit	(2,970)	(10,742)	(10,171)
Loss on sale of property	6,994	_	_
Integration, impairment & restructuring costs	19,575	9,027	1,927
Changes in operating assets and liabilities			
Rents and other receivables, net	(6,495)	. , ,	(17,101)
Prepaid expenses	(3,063)		158
Other assets	4,518	282	(561)
Accounts payable and accrued liabilities	8,573	(5,071)	6,290
Advance rents, security deposits and other liabilities.	2,069	5,491	5,959
Deferred income	8,270	3,312	5,038
Net cash provided by operating activities	191,273	170,323	153,794
Cash flow from investing activities:			
Proceeds from sale of property	2,779	_	_
Acquisitions, net of cash acquired	(117,029)	(127,038)	(173,067)
Additions to property and equipment	(484,303)	(307,314)	(279,905)
Net cash used in investing activities	(598,553)	(434,352)	(452,972)
Cash flow from financing activities:			
Credit facility proceeds	483,000	888,000	574,000
Credit facility repayments	(362,000)	(696,000)	(459,002)
Debt Proceeds	_	1,920	_
5.75% Senior Notes Repayment	_	(300,000)	_
4.75% Notes Issuance	_	400,000	_
Payment of debt extinguishment costs	_	(13,218)	_
Payment of deferred financing costs	(3,964)	(10,862)	(4,177)
Payment of preferred stock dividends	(10,728)	_	_
Payment of common stock dividends	(82,579)	(74,592)	(62,585)
Distribution to noncontrolling interests	(10,759)	(10,289)	(9,619)
Proceeds from exercise of stock options	246	4,972	858
Payment of tax withholdings related to equity based awards	(2,205)	(4,725)	(2,584)
Principal payments on capital lease obligations	(7,626)	(12,224)	(12,600)
Dulles, VA Vault Capital Lease Repayment	_	(17,785)	_
Mortgage principal debt repayments	(66)	(54)	_
Preferred stock issuance proceeds, net of costs.	407,477	_	_
Common stock issuance proceeds, net of costs.		107,549	275,663
Net cash provided by financing activities	410,796	262,692	299,954
Net increase (decrease) in cash and cash equivalents	3,516	(1,337)	776
Cash and cash equivalents, beginning of period	8,243	9,580	8,804
Cash and cash equivalents, end of period	\$ 11,759	\$ 8,243	\$ 9,580

QTS REALTY TRUST, INC. CONSOLIDATED STATEMENTS OF CASH FLOW (continued) (in thousands)

	Yea	r En	ded Decembe	r 31,	
	2018		2017		2016
SUPPLEMENTAL DISCLOSURES OF CASH FLOW INFORMATION					
Cash paid for interest (net of amounts capitalized).	\$ 24,532	\$	29,934	\$	19,897
Noncash investing and financing activities:					
Accrued capital additions	\$ 76,890	\$	75,965	\$	40,431
Accrued preferred stock dividends	\$ 5,939	\$		\$	_
Accrued deferred financing costs	\$ 76	\$	458	\$	39
Accrued equity issuance costs	\$ 115	\$	25	\$	
Acquisitions, net of cash acquired:					
Land	\$ 	\$	9,363	\$	7,602
Buildings, improvements and equipment	445		14,341		80,975
Construction in Progress	114,283		103,334		62,884
Rents and other receivables, net.	´—		´ —		(2,042)
Acquired intangibles	2,301				34,521
Deferred costs	· —				4,414
Prepaid expenses					574
Goodwill	_		_		(7,895)
Other assets	_		_		309
Capital lease and lease financing obligations	_				
Accounts payable and accrued liabilities	_				(922)
Advance rents, security deposits and other liabilities	_				(1,343)
Deferred income					35
Deferred income taxes	 				(6,045)
Total acquisitions, net of cash acquired	\$ 117,029	\$	127,038	\$	173,067

QUALITYTECH, LP CONSOLIDATED BALANCE SHEETS (in thousands except share and per share data)

ASSETS	Dec	ember 31, 2018	Dece	ember 31, 2017
Real Estate Assets				
Land	\$	105,541	\$	88,216
Buildings, improvements and equipment	Ф	1,917,251	Ф	1,701,287
Less: Accumulated depreciation		(467,644)		(394,823)
Less. Accumulated depreciation		1,555,148		
Construction in progress				1,394,680
Construction in progress		790,064 2,345,212		567,819
Real Estate Assets, net				1,962,499
Cash and cash equivalents		11,759		8,243
Rents and other receivables, net.		55,093		47,046
Acquired intangibles, net		95,451		109,451
Deferred costs, net.		45,096		41,545
Prepaid expenses		6,822		6,163
Goodwill		173,843		173,843
Assets held for sale		71,800		
Other assets, net.		56,893		66,266
TOTAL ASSETS	\$	2,861,969	\$	2,415,056
<u>LIABILITIES</u>				
Unsecured credit facility, net		945,657		825,186
Senior notes, net of debt issuance costs.		394,786		394,178
Capital lease, lease financing obligations and mortgage notes payable		4,674		10,565
		99,166		113,430
Accounts payable and accrued liabilities				
Dividends and distributions payable		29,633		22,222
		32,679		28,903
Liabilities held for sale		24,349		4.611
Deferred income taxes		1,097		4,611
Deferred income		33,241		25,305
TOTAL LIABILITIES		1,565,282		1,424,400
PARTNERS' CAPITAL				
7.125% Series A cumulative redeemable perpetual preferred units: \$0.01 par				
value (liquidation preference \$25.00 per unit), 4,600,000 units authorized,				
4,280,000 units issued and outstanding as of December 31, 2018; zero units				
authorized, issued and outstanding as of December 31, 2017		103,212		
6.50% Series B cumulative convertible perpetual preferred units: \$0.01 par value		105,212		
(liquidation preference \$100.00 per unit), 3,162,500 units authorized, issued				
and outstanding as of December 31, 2018; zero units authorized, issued and				
		304,265		
outstanding as of December 31, 2017		304,203		
57 245 524 units issued and outstanding as of December 21, 2019 and				
57,245,524 units issued and outstanding as of December 31, 2018 and		006.066		000 207
December 31, 2017, respectively		886,866		989,207
Accumulated other comprehensive income.		2,344		1,449
TOTAL PARTNERS' CAPITAL	<u></u>	1,296,687	Φ.	990,656
TOTAL LIABILITIES AND PARTNERS' CAPITAL	\$	2,861,969	\$	2,415,056

QUALITYTECH, LP CONSOLIDATED STATEMENTS OF OPERATIONS (in thousands)

	 Yea	ar En	ded December	· 31,	
	2018		2017		2016
Revenues:					
Rental	\$ 360,828	\$	335,819	\$	295,723
Recoveries from customers	45,386		37,886		29,271
Cloud and managed services	35,712		65,466		68,488
Other	8,598		7,339		8,881
Total revenues	450,524		446,510		402,363
Operating Expenses:					
Property operating costs	148,236		153,209		136,488
Real estate taxes and insurance	12,193		11,959		8,840
Depreciation and amortization	149,891		140,924		124,786
General and administrative	80,857		87,231		83,286
Transaction, integration and impairment costs	2,743		11,060		10,906
Restructuring	37,943				
Total operating expenses	 431,863		404,383		364,306
Operating income	18,661		42,127		38,057
Other income and expenses:					
Interest income	150		67		3
Interest expense	(28,749)		(30,523)		(23,159)
Debt restructuring costs	(605)		(19,992)		(192)
Income (loss) before taxes	(10,543)		(8,321)		14,709
Tax benefit of taxable REIT subsidiaries	3,368		9,778		9,976
Net income (loss)	\$ (7,175)	\$	1,457	\$	24,685
Preferred unit distributions	(16,666)		<u> </u>		
Net income (loss) attributable to common unitholders	\$ (23,841)	\$	1,457	\$	24,685

QUALITYTECH, LP CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS) (in thousands)

	 Yea	r End	ed Decembe	r 31,	
	2018		2017		2016
Net income (loss)	\$ (7,175)	\$	1,457	\$	24,685
Other comprehensive income (loss):					
Increase in fair value of interest rate swaps	895		1,449		_
Reclassification of other comprehensive income to interest expense	110		_		_
Comprehensive income (loss)	\$ (6,170)	\$	2,906	\$	24,685

QUALITYTECH, LP CONSOLIDATED STATEMENTS OF PARTNERS' CAPITAL (in thousands)

		Limited Par	Limited Partners' Capital	1	General Par	General Partner's Capital	al Accumulated other	d other	
	Preferred Units	d Units	Commo	Common Units	Comm	Common Units	comprehensive income	e income	
	Units	Amount	Units	Amount	Units	Amount	Amount	nt	Total
Balance January 1, 2016		-	48,023	\$ 719,866	1	S	s		\$ 719,866
Issuance of shares through equity award plan	l	1	280	(1,726)		ı		I	(1,726)
Equity-based compensation expense				10.584		l			10,584
Net proceeds from QTS Realty Trust, Inc. equity offering			6,325	275,862	I	1			275,862
Dividends to QTS Realty Trust, Inc				(66,586)		l		1	(66,586)
Partnership distributions				(9,875)					(9,875)
Net income				24,685		l			24,685
er 31, 2		-	54,628	\$ 952,810	1	\$	8		\$ 952,810
Net share activity through equity award plan	1	I	582	1,022	I	I			1,022
Increase in fair value of interest rate swaps						l		1,449	1,449
Equity-based compensation expense				13,863		ı			13,863
Net proceeds from QTS Realty Trust, Inc. equity offerings	l		2,036	107,495		ı			107,495
Dividends to QTS Realty Trust, Inc				(77,041)		l	1		(77,041)
Partnership distributions				(10,399)					(10,399)
Net income				1,457		l			1,457
Balance December 31, 2017			57,246	\$ 989,207	1	\$	\$	1,449	959,066 \$
Net share activity through equity award plan	1	l	553	(1,788)		I			(1,788)
Increase in fair value of interest rate swaps						l		895	895
Equity-based compensation expense				18,100		ı	1		18,100
Net proceeds from QTS Realty Trust, Inc. Series A Preferred									
equity offering	4,280	103,212		1		I			103,212
equity offering	3,163	304,265			1	1			304,265
Dividends on Series A Preferred Units				(6,046)		l			(6,046)
Dividends on Series B Convertible Preferred Units				(10,621)		l		I	(10,621)
Common dividends to QTS Realty Trust, Inc.				(83,869)		I			(83,869)
Partnership distributions				(10,942)		l	1		(10,942)
Net loss				(7,175)					(7,175)
Balance December 31, 2018	7,443	\$ 407,477	57,799	\$ 886,866	1	8	\$	2,344	\$ 1,296,687

See accompanying notes to financial statements.

QUALITYTECH, LP CONSOLIDATED STATEMENTS OF CASH FLOW (in thousands)

	Year Ended December 31,				31,
		2018	2017		2016
Cash flow from operating activities:				_	
Net income (loss)	\$	(7,175)	\$ 1,457	\$	24,685
Adjustments to reconcile net income (loss) to net cash provided by operating activities:					
Depreciation and amortization		143,354	136,585		120,805
Above/Below Market Lease Amortization.		465	865		659
Amortization of deferred loan costs		3,856	3,640		3,285
Amortization of senior notes discount		_	229		261
Loss on extinguishment of debt.		_	19,912		_
Equity-based compensation expense		14,972	13,863		10,584
Bad debt expense (recoveries).		(2,275)	3,519		1,752
Write off of deferred loan costs		605	80		224
Deferred tax benefit		(2.970)	(10,742)		(10,171)
Loss on sale of property		6,994	·		` ´ _ ´
Integration, impairment & restructuring costs		19,575	9,027		1,927
Changes in operating assets and liabilities		,	,		,
Rents and other receivables, net		(6,495)	(12,881)		(17,101)
Prepaid expenses		(3,063)	755		158
Other assets		4,518	282		(561)
Accounts payable and accrued liabilities.		8,573	(5,071)		6,290
Advance rents, security deposits and other liabilities.		2,069	5,491		5,959
Deferred income		8,270	3,312		5,038
Net cash provided by operating activities		191,273	170,323	_	153,794
Cash flow from investing activities:	_				
Proceeds from sale of property.		2,779	_		_
Acquisitions, net of cash acquired		(117,029)	(127,038)		(173,067)
Additions to property and equipment		(484,303)	(307,314)		(279,905)
Net cash used in investing activities		(598,553)	(434,352)	_	(452,972)
Cash flow from financing activities:	_	(0,0,000)		_	(10-3/1-)
Credit facility proceeds		483,000	888.000		574.000
Credit facility repayments		(362,000)	(696,000)		(459,002)
Debt Proceeds		_	1,920		
5.75% Senior Notes Repayment.		_	(300,000)		_
4.75% Notes Issuance		_	400,000		_
Payment of debt extinguishment costs		_	(13,218)		_
Payment of deferred financing costs.		(3.964)	(10,862)		(4,177)
Payment of preferred stock dividends.		(10,728)	_		_
Payment of cash dividends.		(82,579)	(74,592)		(62,585)
Partnership distributions		(10,759)	(10,289)		(9,619)
Proceeds from exercise of stock options.		246	4,972		858
Payment of tax withholdings related to equity based awards		(2,205)	(4,725)		(2,584)
Principal payments on capital lease obligations		(7,626)	(12,224)		(12,600)
Dulles, VA Vault Capital Lease Repayment			(17,785)		`
Mortgage principal debt repayments		(66)	(54)		_
Preferred stock issuance proceeds, net of costs.		407,477			_
Common stock issuance proceeds, net of costs		´ —	107,549		275,663
Net cash provided by financing activities		410,796	262,692	_	299,954
. • • • • • • • • • • • • • • • • • • •	_			_	
Net increase (decrease) in cash and cash equivalents		3,516	(1,337)		776
Cash and cash equivalents, beginning of period		8,243	9,580		8,804
Cash and cash equivalents, end of period	\$	11,759	\$ 8,243	\$	9,580
	Ψ.	,,,,,	· 0, = .3	4	- ,000

QUALITYTECH, LP CONSOLIDATED STATEMENTS OF CASH FLOW (continue) (in thousands)

	Year Ended December 31,					
	2018	2017	2016			
SUPPLEMENTAL DISCLOSURES OF CASH FLOW INFORMATION		· ·				
Cash paid for interest (net of amounts capitalized)	\$ 24,532	\$ 29,934	\$ 19,897			
Noncash investing and financing activities:						
Accrued capital additions	\$ 76,890	\$ 75,965	\$ 40,431			
Accrued preferred stock dividends	\$ 5,939	ş —	ş —			
Accrued deferred financing costs	\$ 76	\$ 458	\$ 39			
Accrued equity issuance costs	\$ 115	\$ 25	\$ —			
Acquisitions, net of cash acquired:						
Land	s —	\$ 9,363	\$ 7,602			
Buildings, improvements and equipment	445	14,341	80,975			
Construction in Progress.	114,283	103,334	62,884			
Rents and other receivables, net	_	_	(2,042)			
Acquired intangibles	2,301	_	34,521			
Deferred costs	_	_	4,414			
Prepaid expenses	_	_	574			
Goodwill	_	_	(7,895)			
Other assets	_	_	309			
Capital lease and lease financing obligations	_	_	_			
Accounts payable and accrued liabilities	_	_	(922)			
Advance rents, security deposits and other liabilities	_	_	(1,343)			
Deferred income.	_	_	35			
Deferred income taxes	e 117.020	<u> </u>	(6,045)			
Total acquisitions, net of cash acquired	\$ 117,029	\$ 127,038	\$ 173,067			

QTS REALTY TRUST, INC. QUALITYTECH, LP NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

1. Description of Business

QTS Realty Trust, Inc. ("QTS") through its controlling interest in QualityTech, LP (the "Operating Partnership" and collectively with QTS and their subsidiaries, the "Company") and the subsidiaries of the Operating Partnership, is engaged in the business of owning, acquiring, constructing, redeveloping and managing multi-tenant data centers. The Company's portfolio consists of 25 wholly-owned and leased properties with data centers located throughout the United States, Canada, Europe and Asia.

QTS elected to be taxed as a real estate investment trust ("REIT") for U.S. federal income tax purposes, commencing with its taxable year ended December 31, 2013. As a REIT, QTS generally is not required to pay federal corporate income taxes on its taxable income to the extent it is currently distributed to its stockholders.

The Operating Partnership is a Delaware limited partnership formed on August 5, 2009 and is QTS' historical predecessor. As of December 31, 2018, QTS owned approximately 88.5% of the interests in the Operating Partnership. Substantially all of QTS' assets are held by, and QTS' operations are conducted through, the Operating Partnership. QTS' interest in the Operating Partnership entitles QTS to share in cash distributions from, and in the profits and losses of, the Operating Partnership in proportion to QTS' percentage ownership. As the sole general partner of the Operating Partnership, QTS generally has the exclusive power under the partnership agreement of the Operating Partnership to manage and conduct the Operating Partnership's business and affairs, subject to certain limited approval and voting rights of the limited partners. QTS' board of directors manages the Company's business and affairs.

2. Summary of Significant Accounting Policies

Basis of Presentation – The accompanying financial statements have been prepared by management in accordance with accounting principles generally accepted in the United States ("U.S. GAAP"). In the opinion of management, all adjustments (consisting of normal recurring adjustments) considered necessary for a fair presentation have been included.

The accompanying financial statements are presented for both QTS Realty Trust, Inc. and QualityTech, LP. References to "QTS" mean QTS Realty Trust, Inc. and its controlled subsidiaries and references to the "Operating Partnership" mean QualityTech, LP and its controlled subsidiaries.

The Operating Partnership meets the definition and criteria of a variable interest entity ("VIE") in accordance with ASC 810, *Consolidation*, and the Company is the primary beneficiary of the VIE. As discussed below, the Company's only material asset is its ownership interest in the Operating Partnership, and consequently, all of its assets and liabilities represent those assets and liabilities of the Operating Partnership. The Company's debt is an obligation of the Operating Partnership where the creditors may have recourse, under certain circumstances, against the credit of the Company.

QTS is the sole general partner of the Operating Partnership, and its only material asset consists of its ownership interest in the Operating Partnership. Management operates QTS and the Operating Partnership as one business. The management of QTS consists of the same employees as the management of the Operating Partnership. QTS does not conduct business itself, other than acting as the sole general partner of the Operating Partnership and issuing public equity from time to time. QTS has not issued or guaranteed any indebtedness. Except for net proceeds from public equity issuances by QTS, which are contributed to the Operating Partnership in exchange for units of limited partnership interest of the Operating Partnership, the Operating Partnership generates all remaining capital required by the business through its operations, the direct or indirect incurrence of indebtedness, and the issuance of partnership units. Therefore, as general partner with control of the Operating Partnership, QTS consolidates the Operating Partnership for financial reporting purposes.

The Company believes, therefore, that providing one set of notes for the financial statements of QTS and the Operating Partnership provides the following benefits:

- enhances investors' understanding of QTS and the Operating Partnership by enabling investors to view the business as a whole in the same manner as management views and operates the business;
- eliminates duplicative disclosure and provides a more streamlined and readable presentation since a substantial portion of the disclosure applies to both QTS and the Operating Partnership; and
- creates time and cost efficiencies through the preparation of one set of notes instead of two separate sets of notes.

In addition, in light of these combined notes, the Company believes it is important for investors to understand the few differences between QTS and the Operating Partnership in the context of how QTS and the Operating Partnership operate as a consolidated company. With respect to balance sheets, the presentation of stockholders' equity and partners' capital are the main areas of difference between the consolidated balance sheets of QTS and those of the Operating Partnership. On the Operating Partnership's consolidated balance sheets, partners' capital includes preferred partnership units and common partnership units that are owned by QTS and other partners as well as accumulated other comprehensive income (loss). On QTS' consolidated balance sheets, stockholders' equity includes preferred stock, common stock, additional paid in capital, accumulated other comprehensive income (loss) and accumulated dividends in excess of earnings. The remaining equity reflected on QTS's consolidated balance sheet is the portion of net assets that are retained by partners other than QTS, referred to as noncontrolling interests. With respect to statements of operations, the primary difference in QTS' Statements of Operations and Statements of Comprehensive Income (Loss) is that for net income (loss), QTS retains its proportionate share of the net income (loss) based on its ownership of the Operating Partnership, with the remaining balance being retained by the Operating Partnership. These combined notes refer to actions or holdings as being actions or holdings of "the Company." Although the Operating Partnership is generally the entity that enters into contracts, holds assets and issues debt, management believes that these general references to "the Company" in this context is appropriate because the business is one enterprise operated through the Operating Partnership.

As discussed above, QTS owns no operating assets and has no operations independent of the Operating Partnership and its subsidiaries. Also, the Operating Partnership owns no operating assets and has no operations independent of its subsidiaries. Obligations under the 4.75% Senior Notes due 2025 and the unsecured credit facility, both discussed in Note 6, are fully, unconditionally, and jointly and severally guaranteed by the Operating Partnership's existing subsidiaries (other than foreign subsidiaries and receivables entities) and future subsidiaries that guarantee any indebtedness of QTS Realty Trust, Inc., the Operating Partnership, QTS Finance Corporation (the co-issuer of the 4.75% Senior Notes due 2025) or any subsidiary guarantor. The indenture governing the 4.75% Senior Notes due 2025 restricts the ability of the Operating Partnership to make distributions to QTS, subject to certain exceptions, including distributions required in order for QTS to maintain its status as a real estate investment trust under the Internal Revenue Code of 1986, as amended (the "Code").

The consolidated financial statements of QTS Realty Trust, Inc. include the accounts of QTS Realty Trust, Inc. and its majority owned subsidiaries. This includes the operating results of the Operating Partnership for all periods presented.

Use of Estimates – The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates. Significant items subject to such estimates and assumptions include the useful lives of fixed assets, allowances for doubtful accounts and deferred tax assets and the valuation of derivatives, real estate assets, acquired intangible assets and certain accruals.

Principles of Consolidation – The consolidated financial statements of QTS Realty Trust, Inc. include the accounts of QTS Realty Trust, Inc. and its controlled subsidiaries. The consolidated financial statements of QualityTech, LP include the accounts of QualityTech, LP and its subsidiaries. All significant intercompany accounts and transactions have been eliminated in the financial statements.

Real Estate Assets – Real estate assets are reported at cost. All capital improvements for the income-producing properties that extend their useful lives are capitalized to individual property improvements and depreciated over their estimated useful lives. Depreciation for real estate assets is generally provided on a straight-line basis over 40 years from

the date the property was placed in service. Property improvements are depreciated on a straight-line basis over the life of the respective improvement ranging from 20 to 40 years from the date the components were placed in service. Leasehold improvements are depreciated over the lesser of 20 years or through the end of the respective life of the lease. Repairs and maintenance costs are expensed as incurred. For the year ended December 31, 2018, depreciation expense related to real estate assets and non-real estate assets was \$101.2 million and \$12.3 million, respectively, for a total of \$113.5 million. For the year ended December 31, 2017, depreciation expense related to real estate assets and non-real estate assets was \$90.1 million and \$14.2 million, respectively, for a total of \$104.3 million. For the year ended December 31, 2016, depreciation expense related to real estate assets and non-real estate assets was \$77.5 million and \$13.1 million, respectively, for a total of \$90.6 million. The Company capitalizes certain development costs, including internal costs incurred in connection with development. The capitalization of costs during the construction period (including interest and related loan fees, property taxes and other direct and indirect costs) begins when development efforts commence and ends when the asset is ready for its intended use. Capitalization of such costs, excluding interest, aggregated to \$17.4 million, \$12.7 million and \$11.0 million for the years ended December 31, 2018, 2017 and 2016 respectively. Interest is capitalized during the period of development by applying the Company's weighted average effective borrowing rate to the actual development and other capitalized costs paid during the construction period. Interest is capitalized until the property is ready for its intended use. Interest costs capitalized totaled \$26.8 million, \$14.3 million and \$11.4 million for the years ended December 31, 2018, 2017 and 2016, respectively.

Acquisitions and Sales – Acquisitions of real estate and other entities are either accounted for as asset acquisitions or business combinations depending on facts and circumstances. When substantially all of the fair value of gross assets acquired is concentrated in a single identifiable asset or a group of similar identifiable assets, the transaction is accounted for as an asset acquisition. In an asset acquisition, the purchase price paid for assets acquired is allocated between identified tangible and intangible assets acquired based on relative fair value. Transaction costs associated with asset acquisitions are capitalized. When substantially all of the fair value of assets acquired is not concentrated in a group of similar identifiable assets, the set of assets will generally be considered a business. When accounting for business combinations purchase accounting is applied to the assets and liabilities related to all real estate investments acquired in accordance with the accounting requirements of ASC 805, Business Combinations, which requires the recording of net assets of acquired businesses at fair value. The fair value of the consideration transferred is assigned to the acquired tangible assets, consisting primarily of land, construction in progress, building and improvements, and identified intangible assets and liabilities, consisting of the value of above-market and below-market leases, value of in-place leases, value of customer relationships, trade names, software intangibles and capital leases. The excess of the fair value of liabilities assumed, common stock issued and cash paid over the fair value of identifiable assets acquired is allocated to goodwill, which is not amortized by the Company. Transaction costs associated with business combinations are expensed as incurred.

In developing estimates of fair value of acquired assets and assumed liabilities, management analyzed a variety of factors including market data, estimated future cash flows of the acquired operations, industry growth rates, current replacement cost for fixed assets and market rate assumptions for contractual obligations. Such a valuation requires management to make significant estimates and assumptions, particularly with respect to the intangible assets.

Acquired in-place leases are amortized as amortization expense on a straight-line basis over the remaining life of the underlying leases. This amortization expense is accounted for as real estate amortization expense.

Acquired customer relationships are amortized as amortization expense on a straight-line basis over the expected life of the customer relationship. This amortization expense is accounted for as real estate amortization expense.

Other acquired intangible assets, which includes platform, above or below market leases, and trade name intangibles, are amortized on a straight-line basis over their respective expected lives. Above or below market leases are amortized as a reduction to or increase in rental revenue when the Company is a lessor as well as a reduction to or increase in rent expense over the remaining lease terms in the case of the Company as lessee. The expense associated with trade name intangibles is accounted for as real estate amortization expense, whereas the expense associated with the amortization of platform intangibles is accounted for as non-real estate amortization expense.

The Company accounts for the sale of assets under Financial Accounting Standards Board ("FASB") Accounting Standards Update ("ASU") No. 2017-05, *Other Income—Gains and Losses from the Derecognition of Nonfinancial Assets* (Subtopic 610-20), which provides for recognition or derecognition based on transfer of ownership. During the year ended December 31, 2018, the Company recognized a \$7.0 million net loss on sale of equipment associated with the

Company's strategic growth plan. The loss on disposal is included within the "Restructuring" line item of the consolidated statements of operations.

Impairment of Long-Lived Assets, Intangible Assets and Goodwill – The Company reviews its long-lived assets and intangible assets for impairment when events or changes in circumstances indicate that the carrying amount of the assets may not be recoverable. Recoverability of assets to be held and used is measured by comparison of the carrying amount to the future net cash flows, undiscounted and without interest, expected to be generated by the asset group. If the net carrying value of the asset exceeds the value of the undiscounted cash flows, the fair value of the asset is assessed and may be considered impaired. An impairment loss is recognized based on the excess of the carrying amount of the impaired asset over its fair value. For the year ended December 31, 2018, the Company recognized \$8.8 million of impairment losses related to certain product-related assets, which is included in the "Restructuring" line item of the consolidated statement of operations. For the year ended December 31, 2017, the Company recognized a \$1.6 million impairment related to equipment used to support its cloud and managed service platform, which is included in the "Transaction, integration and impairment costs" line item of the consolidated statement of operations. No impairment losses were recorded for the year ended December 31, 2016.

The fair value of goodwill is the consideration transferred in a business combination which is not allocable to identifiable intangible and tangible assets. Goodwill is subject to at least an annual assessment for impairment. In connection with the goodwill impairment evaluation that the Company performed as of October 1, 2018, the Company determined qualitatively that it is not more likely than not that the fair value of the Company's one reporting unit was less than the carrying amount, thus it did not perform a quantitative analysis. As the Company continues to operate and assess its goodwill at the consolidated level and its market capitalization significantly exceeds its net asset value, further analysis was not deemed necessary as of December 31, 2018.

Assets Held for Sale – As of December 31, 2018, the Company believed it was probable that it would complete a sale of the Manassas facility to a joint venture within one year and accordingly reclassified certain assets, as well as liabilities associated with those assets, as held for sale. The asset value of \$71.8 million associated with the held for sale assets is included within the "Assets held for sale" line item of the consolidated statements of financial position and primarily consists of construction in progress. The liability value of \$24.3 million associated with the held for sale liabilities is included within the "Liabilities held for sale" line item of the consolidated statements of financial position and primarily consists of accounts payable and accrued liabilities associated with construction in progress assets. See Note 19 for further discussion of the joint venture.

Cash and Cash Equivalents – The Company considers all demand deposits and money market accounts purchased with a maturity date of three months or less at the date of purchase to be cash equivalents. The Company's account balances at one or more institutions periodically exceed the Federal Deposit Insurance Corporation ("FDIC") insurance coverage and, as a result, there is concentration of credit risk related to amounts on deposit in excess of FDIC coverage. The Company mitigates this risk by depositing a majority of its funds with several major financial institutions. The Company also has not experienced any losses and does not believe that the risk is significant.

Deferred Costs – Deferred costs, net, on the Company's balance sheets include both financing costs and leasing costs.

Deferred financing costs represent fees and other costs incurred in connection with obtaining debt and are amortized over the term of the loan and are included in interest expense. Debt issuance costs related to revolving debt arrangements are deferred and presented as assets on the balance sheet; however, all other debt issuance costs are recorded as a direct offset to the associated liability. Amortization of debt issuance costs, including those costs presented as offsets to the associated liability in the consolidated balance sheet, were \$3.9 million, \$3.6 million and \$3.3 million for the years ended December 31, 2018, 2017 and 2016, respectively. During the year ended December 31, 2018, the Company wrote off unamortized financing costs of \$0.6 million to the income statement in connection with the modification of its unsecured credit facility in November 2018 whereby the company decreased the interest rates, modified and/or eliminated certain covenants and extended the term for an additional year. During the year ended December 31, 2017, the Company wrote off unamortized financing costs of \$5.2 million to the income statement primarily in connection with the replacement of its \$300 million 5.875% senior notes with the \$400 million of 4.75% notes. During the year ended December 31, 2016, the Company wrote off unamortized financing costs of \$0.2 million to the income statement in connection with the modification of its unsecured credit facility in December 2016 whereby the company increased the total capacity and extended the term for an additional year.

Deferred financing costs presented as assets on the balance sheet related to revolving debt arrangements, net of accumulated amortization are as follows:

(dollars in thousands)		cember 31, 2018	D	ecember 31, 2017
Deferred financing costs		11,530 (3,859)	\$	9,775 (1,908)
Deferred financing costs, net		7,671	\$	7,867

Deferred financing costs presented as offsets to the associated liabilities on the balance sheets related to fixed term debt arrangements, net of accumulated amortization, are as follows:

(dollars in thousands)		cember 31, 2018	D	ecember 31, 2017
Deferred financing costs		14,501 (2,944)	\$	12,675 (1,039)
Deferred financing costs, net		11,557	\$	11,636

Initial direct costs, or deferred leasing costs, include commissions paid to third parties, including brokers, leasing and referral agents, and internal sales commissions paid to employees for successful execution of lease agreements. These costs are incurred when the Company executes lease agreements and represent only incremental costs that would not have been incurred if the lease agreement had not been executed. The Company incurs the same incremental costs to obtain managed services and cloud contracts with customers that are accounted for pursuant to ASC 606, *Revenue from Contracts with Customers*. These costs are accounted for under ASC 340-40, *Other Assets and Deferred Costs*, which includes a similar framework for capitalization that is applied to the Company's leasing contracts as only the direct and incremental costs of obtaining a revenue contract are capitalized. Because the framework of accounting for these costs and the underlying nature of the costs are the same for the Company's revenue and lease contracts, the costs are presented on a combined basis within the Company's financial statements and within the below table. Both revenue and leasing commissions are capitalized and generally amortized over the term of the related leases or the expected term of the contract using the straight-line method. If a customer lease terminates prior to the expiration of its initial term, any unamortized initial direct costs related to the lease are written off to amortization expense. Amortization of deferred leasing costs totaled \$21.3 million, \$18.5 million and \$15.2 million for the years ended December 31, 2018, 2017 and 2016, respectively. Deferred leasing costs, net of accumulated amortization are as follows:

(dollars in thousands)	De	2018	De	2017
Deferred leasing costs	\$	63,018 (25,593)	\$	54,868 (20,956)
Deferred leasing costs, net	\$	37,425	\$	33,912

Revenue Recognition – In May 2014, the Financial Accounting Standards Board ("FASB") issued guidance codified in Accounting Standards Codification ("ASC") Topic 606, *Revenue from Contracts with Customers*, which supersedes the prior revenue recognition requirements in ASC Topic 605, *Revenue Recognition*. Under this new guidance, entities should recognize revenues to depict the transfer of promised goods or services to customers in an amount that reflects the consideration the entity expects to receive in exchange for those goods or services. This standard also requires enhanced disclosures. The standard is effective for annual and interim periods beginning after December 15, 2017. Retrospective and modified retrospective application is allowed. The Company adopted ASC Topic 606 effective January 1, 2018, and elected the modified retrospective transition approach. The adoption did not result in a cumulative catch-up adjustment to opening equity and does not change the recognition pattern of the Company's operating revenues, a significant portion of which are recognized as rental income in accordance with ASC 840, *Leases*. Under ASC 606, disclosures are required to provide information on the nature, amount, timing, and uncertainty of revenue, certain costs, and cash flows arising from contracts with customers.

The Company derives its revenues from leases with customers for data center space which include lease rental revenue components and nonlease revenue components, such as power, cloud and managed services. A description of each of the

Company's disaggregated revenue streams as presented on the face of the consolidated statements of operations is as follows:

Rental Revenue

The Company's leases with customers are classified as operating leases and rental revenue is recognized on a straight-line basis over the customer lease term. Occasionally, customer leases include options to extend or terminate the lease agreements. The Company does not include any of these extension or termination options in a customer's lease term for lease classification purposes or recognizing rental revenue unless it is reasonably certain the customer will exercise these extension or termination options.

Rental revenue also includes revenue from power delivery on fixed power arrangements, whereby customers are billed and pay a fixed monthly fee per committed available amount of connected power. These fixed power arrangements require the Company to provide a series of distinct services of standing ready to deliver the power over the contracted term which is co-terminus with the lease. The Company recognizes revenue from these nonlease fixed power components over time on a straight-line basis in the same manner as the lease components of the contract as the customer simultaneously receives and consumes the power benefits provided over the lease term.

Rental revenue also includes amortization of set-up fees which are amortized over the term of the respective lease as discussed below.

Recoveries from Customers

Certain customer leases contain provisions under which customers reimburse the Company for power and cooling-related charges as well as a portion of the property's real estate taxes, insurance and other operating expenses. Recoveries of power and cooling-related expenses are nonlease components and relate specifically to the Company's variable power arrangements, whereby customers pay variable monthly fees for the specific amount of power utilized at the current utility rates. The Company's performance obligation is to stand ready to deliver power over the life of the customer contract up to a contracted power capacity. Customers have the flexibility to increase or decrease the amount of power consumed, and therefore sub-metered power revenue is constrained at contract inception. The reimbursements are included in revenue as recoveries from customers and are recognized each month as the uncertainty related to the consideration is resolved (i.e. the Company provides power to its customers) and customers utilize the power. Reimbursement of real estate taxes, insurance, common area maintenance, or other operating expenses are accounted for as executory costs under lease guidance and are recognized as revenue in the period that the associated expenses are recognized.

Cloud and Managed Services

The Company, through its TRS, may provide both its cloud product and use of its managed services to its customers on an individual or combined basis. In both its cloud and managed services offerings the TRS's performance obligation is to provide services (e.g. cloud hosting, data backup, data storage or data center personnel labor hours) to facilitate a fully integrated information technology ("IT") outsourcing environment over a contracted term. Although underlying services may vary, over the contracted term, monthly service offerings are substantially the same and the Company accounts for the services as a series of distinct services. Service fee revenue is recognized as the revenue is earned, which generally coincides with the services being provided. As the Company has the right to consideration from customers in an amount that corresponds directly with the value to the customer of the TRS's performance of providing continuous services, the Company recognizes monthly revenue for the amount invoiced.

With respect to the transaction price allocated to remaining performance obligations within the Company's cloud and managed service contracts, the Company has elected to use the optional exemption provided by the standard whereby the Company is not required to estimate the total transaction price allocated to remaining performance obligations as the Company applies the "right-to-invoice" practical expedient. As described above, the nature of our performance obligation in these contracts is to provide monthly services that are substantially the same and accounted for as a series of distinct services. These contracts generally have a remaining term ranging from month-to-month to three years.

Other

Other revenue primarily consists of straight line rent. Straight line rent represents the difference in rents recognized during the period versus amounts contractually due pursuant to the underlying leases and is recorded as deferred rent receivable/payable in the consolidated balance sheets. For lease agreements that provide for scheduled rent increases, rental income is recognized on a straight-line basis over the non-cancellable term of the leases, which commences when

control of the space has been provided to the customer. The amount of the straight-line rent receivable on the balance sheets included in rents and other receivables, net was \$29.7 million and \$23.4 million as of December 31, 2018 and December 31, 2017, respectively.

Advance Rents and Security Deposits – Advance rents, typically prepayment of the following month's rent, consist of payments received from customers prior to the time they are earned and are recognized as revenue in subsequent periods when earned. Security deposits are collected from customers at the lease origination and are generally refunded to customers upon lease expiration.

Deferred Income – Deferred income generally results from non-refundable charges paid by the customer at lease inception to prepare their space for occupancy. The Company records this initial payment, commonly referred to as setup fees, as a deferred income liability which amortizes into rental revenue over the term of the related lease on a straightline basis. Deferred income was \$33.2 million, \$25.3 million and \$22.0 million as of December 31, 2018, 2017 and 2016, respectively. Additionally, \$12.5 million, \$10.7 million and \$9.4 million of deferred income was amortized into revenue for the years ended December 31, 2018, 2017 and 2016, respectively.

Equity-based Compensation – Equity-based compensation costs are measured based upon their estimated fair value on the date of grant or modification and amortized ratably over their respective service periods. We have elected to account for forfeitures as they occur. Equity-based compensation expense net of forfeited and repurchased awards was \$15.0 million, \$13.9 million and \$10.6 million for the years ended December 31, 2018, 2017 and 2016, respectively. Equity-based compensation expense for the year ended December 31, 2018 excludes \$3.1 million of equity-based compensation expense associated with the acceleration of equity awards related to certain employees impacted by the Company's strategic growth plan. The aforementioned equity-based compensation expense is included in the "Restructuring" expense line item on the consolidated statements of operations.

Allowance for Uncollectible Accounts Receivable – Rents receivable are recognized when due and are carried at cost, less an allowance for doubtful accounts. The Company records a provision for losses on rents receivable equal to the estimated uncollectible accounts, which is based on management's historical experience and a review of the current status of the Company's receivables. As necessary, the Company also establishes an appropriate allowance for doubtful accounts for receivables arising from the straight-lining of rents. The aggregate allowance for doubtful accounts was \$3.8 million and \$11.5 million as of December 31, 2018 and December 31, 2017, respectively.

Capital Leases and Lease Financing Obligations – The Company evaluates leased real estate to determine whether the lease should be classified as a capital or operating lease in accordance with U.S. GAAP.

The Company periodically enters into capital leases for certain data center equipment as well as fiber optic transmission cabling. In addition, through its acquisition of Carpathia Hosting, Inc. ("Carpathia") on June 16, 2015, the Company is party to capital leases for property and equipment, as well as certain financing obligations. The outstanding liabilities for the capital leases were \$2.7 million and \$7.8 million as of December 31, 2018 and 2017, respectively. The outstanding liabilities for the lease financing obligations were \$0.1 million and \$0.9 million as of December 31, 2018 and 2017, respectively. The net book value of the assets associated with these leases was approximately \$1.8 million and \$14.7 million as of December 31, 2018 and 2017, respectively. Depreciation related to the associated assets is included in depreciation and amortization expense in the Statements of Operations.

See Note 6 for further discussion of capital leases and lease financing obligations.

Segment Information – The Company manages its business as one operating segment and thus one reportable segment consisting of a portfolio of investments in data centers located primarily in the United States.

Customer Concentrations – As of December 31, 2018, one of the Company's customers represented 12.8% of its total monthly rental revenue. No other customers exceeded 5% of total monthly rental revenue.

As of December 31, 2018, two of the Company's customers exceeded 5% of total accounts receivable. In aggregate, these two customers accounted for 25% of total accounts receivable. Both of these customers individually exceeded 10% of total accounts receivable.

Income Taxes – The Company has elected for two of its existing subsidiaries to be taxed as taxable REIT subsidiaries pursuant to the REIT rules of the U.S. Internal Revenue Code.

For the taxable REIT subsidiaries, income taxes are accounted for under the asset and liability method in accordance with ASC 740. Deferred tax assets and liabilities are recognized for the future tax consequences attributable to differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases and operating loss and tax credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates expected to apply to taxable income in the years in which those temporary differences are expected to be recovered or settled. The effect on deferred tax assets and liabilities of a change in tax rates is recognized in income in the period that includes the enactment date. We consider whether it is more likely than not that some portion or all of the deferred tax assets will be realized. It is possible that some or all of our deferred tax assets could ultimately expire unused. The Company establishes valuation allowances against deferred tax assets when the ability to fully utilize these benefits is determined to be uncertain.

The components of income tax provision from continuing operations are:

	For the Year Ended December 31,									
		2018		2017	2016					
Current:										
U.S. federal	\$	(50)	\$	42	\$	(356)				
U.S. State		395		297		20				
Outside United States		78		44		33				
Total Current		423		383		(303)				
Deferred:										
U.S. federal		(3,727)		(9,734)		(8,796)				
U.S. State		(64)		(427)		(877)				
Outside United States		_								
Total Deferred		(3,791)		(10,161)		(9,673)				
Total	\$	(3,368)	\$	(9,778)	\$	(9,976)				

Temporary differences and carry forwards which give rise to the deferred tax assets and liabilities are as follows:

	For the Year Ended December 31,							
		2018		2017		2016		
Deferred tax liabilities								
Property and equipment	\$	(3,089)	\$	(4,940)	\$	(15,031)		
Goodwill		(1,953)		(1,396)		(1,290)		
Intangibles		(11,910)		(13,606)		(24,244)		
Other		(1,049)		(1,132)		(1,386)		
Gross deferred tax liabilities		(18,001)		(21,074)		(41,951)		
Deferred tax assets								
Net operating loss carryforwards		17,610		8,888		18,035		
Deferred revenue and setup charges		3,171		3,435		4,323		
Leases		1		453		2,154		
Credits		287		543		492		
Bad debt reserve		409		2,250		41		
Interest expense carryforward IRC Sec. 163(j)		2,253		_				
Other		1,534		1,607		2,114		
Gross deferred tax assets		25,265		17,176		27,159		
Net deferred tax liability		7,264		(3,898)		(14,792)		
Valuation allowance		(8,361)		(713)		(393)		
Net deferred tax liability	\$	(1,097)	\$	(4,611)	\$	(15,185)		

The taxable REIT subsidiaries currently have net operating loss carryforwards related to federal income taxes of \$33.4 million that expire in 11-18 years and \$32.6 million which have no expiration. The taxable REIT subsidiaries also have \$66.3 million of net operating loss carryforwards relating to state income taxes that expire in 2-20 years. The Company's interest expense carryforward of \$8.8 million has no expiration.

The effective tax rate is subject to change in the future due to various factors such as the operating performance of the taxable REIT subsidiaries, tax law changes and future business acquisitions. The differences between total income tax expense or benefit and the amount computed by applying the statutory income tax rate to income before provision for income taxes with respect to the TRS activity were as follows:

	For the Year Ended December 31,							
	2018			2017		2016		
TRS								
Statutory rate applied to pre-tax loss	\$	(9,656)	\$	(5,109)	\$	(7,299)		
Permanent differences, net		97		(284)		(2,021)		
State income tax, net of federal benefit		(1,430)		(388)		(689)		
Foreign income tax		78		44		33		
Federal and State rate change		(146)		(3,251)				
Contribution of Assets to TRS				(866)				
Other		41		(244)				
Valuation allowance increase (decrease)		7,648		320				
Total tax benefit	\$	(3,368)	\$	(9,778)	\$	(9,976)		
Effective tax rate		7.3%		65.1%		46.5%		

On December 22, 2017, the Tax Cuts and Jobs Act ("The Act"), was signed into law by President Trump. The tax legislation contains several provisions, including the lowering of the U.S. corporate tax rate from 35 percent to 21 percent, effective January 1, 2018.

The Company had significant deferred tax liabilities, primarily related to fixed assets and intangibles, on its balance sheet as of December 31, 2017. The value of the net deferred tax liabilities decreased significantly as a result of the reduction in the U.S. corporate income tax rate. Consequently, operating results for the reporting period ending December 31, 2017 reflected a one-time non-cash income tax benefit of \$3.3 million for the re-measurement of deferred tax assets (liabilities).

The Act also repealed corporate alternative minimum tax ("AMT") for tax years beginning January 1, 2018, and provides that existing AMT credit carryforwards are refundable beginning in 2018. The Company has approximately \$0.3 million of AMT credit carryovers that are expected to be fully refunded by 2022. The repeal of AMT did not result in any one-time income tax expense (benefit) to operating results.

The Company followed the guidance in SEC Staff Accounting Bulletin 118 ("SAB 118"), which provided additional clarification regarding the application of ASC Topic 740 in situations where the Company may not have had the necessary information available, prepared, or analyzed in reasonable detail to complete the accounting for certain income tax effects of the Act for the reporting period ending December 31, 2017 in which the Act was enacted. SAB 118 provided for a measurement period beginning in the reporting period that includes the Act's enactment date and ending when the Company has obtained, prepared, and analyzed the information needed in order to complete the accounting requirements. In no circumstances was the measurement period to extend beyond one year from the enactment date.

The Company completed its accounted for income tax effects of the Act in the reporting period ending December 31, 2018 and included the impacts in its income tax provision from continuing operations in accordance with the measurement period guidance provided in SAB 118. The impacts of completing its accounting were not material to the income tax provision of the Company's effective tax rate.

As of December 31, 2018, 2017 and 2016, the Company had no uncertain tax positions. If the Company accrues any interest or penalties on tax liabilities from significant uncertain tax positions, those items will be classified as interest expense and general and administrative expense, respectively, in the Statements of Operations and Statements of Comprehensive Income. For the years ended December 31, 2018, 2017 and 2016, the Company had accrued no such interest or penalties.

The Company is currently not under examination by the Internal Revenue Service or any state jurisdictions. Tax years ending after December 31, 2014 remain subject to examination and assessment, state limitation periods included. Tax years ending December 31, 2009 through December 31, 2013 remain open solely for purposes of examination of our loss and credit carryforwards.

The Company provides a valuation allowance against deferred tax assets if, based on management's assessment of operating results and other available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized. The evidence contemplated by management at December 31, 2018 and 2017 consists of current and prior operating results, available tax planning strategies, and the scheduled reversal of existing taxable temporary differences. Evidence from the scheduled reversal of taxable temporary differences relies on management judgements based on the accumulation of available evidence. Those judgements may be subject to change in the future as evidence available to management changes. Management's assessment of the Company's valuation allowance may further change based on our generation or ability to project of future operating income, and changes in tax policy or tax planning strategies.

As of December 31, 2018 and 2017, valuation allowances of \$8.4 million and \$0.7 million, respectively, were recognized against certain net federal and state deferred tax assets since it is more likely than not that the deferred tax assets will not be realized. The \$7.7 million year-over-year change is primarily caused by the federal and state valuation allowances recorded due to ongoing operating losses of the taxable REIT subsidiaries and a change in the evidence available related to the scheduled reversal of taxable temporary differences. Additionally, some portion of the change to the state valuation allowance is attributable to state net operating losses generated where the Company has discontinued its operations or reduced its presence in certain state jurisdictions.

Distribution Policy

To satisfy the requirements to qualify for taxation as a REIT, and to avoid paying tax on our income, we intend to continue to make regular quarterly distributions of all, or substantially all, of our REIT taxable income (excluding net capital gains) to our stockholders.

All distributions will be made at the discretion of our board of directors and will depend on our historical and projected results of operations, liquidity and financial condition, our REIT qualification, our debt service requirements, operating expenses and capital expenditures, prohibitions and other restrictions under financing arrangements and applicable law and other factors as our board of directors may deem relevant from time to time. We anticipate that our estimated cash available for distribution will exceed the annual distribution requirements applicable to REITs and the amount necessary to avoid the payment of tax on undistributed income. However, under some circumstances, we may be required to make distributions in excess of cash available for distribution in order to meet these distribution requirements and we may need to borrow funds to make certain distributions. If we borrow to fund distributions, our future interest costs would increase, thereby reducing our earnings and cash available for distribution from what they otherwise would have been.

The partnership agreement of the Operating Partnership requires the Operating Partnership to distribute at least quarterly 100% of our "available cash" (as defined in the partnership agreement) to the partners of the Operating Partnership, in accordance with the terms established for the class of partnership interests held by such partner. Furthermore, because QTS intends to continue to qualify as a REIT for tax purposes, QTS is required to make reasonable efforts to distribute available cash (a) to limited partners of the Operating Partnership so as to preclude any such distribution or portion thereof from being treated as part of a sale of property to the Operating Partnership by a limited partner under Section 707 of the Code or the regulations thereunder; provided, however, that neither of QTS nor the Operating Partnership shall have liability to a limited partner under any circumstances as a result of any distribution to a limited partner being so treated, and (b) to QTS, as general partner, in an amount sufficient to enable QTS to make distributions to its stockholders that will enable QTS to (1) satisfy the requirements for qualification as a REIT under the Code and the regulations thereunder, and (2) avoid any federal income or excise tax liability. Consistent with the partnership agreement, we intend to continue to distribute quarterly an amount of our available cash sufficient to enable QTS to pay quarterly dividends to its stockholders in an amount necessary to satisfy the requirements applicable to REITs under the Code and to eliminate federal income and excise tax liability.

Fair Value Measurements – ASC Topic 820, *Fair Value Measurement*, emphasizes that fair-value is a market-based measurement, not an entity-specific measurement. Therefore, a fair-value measurement should be determined based on the assumptions that market participants would use in pricing the asset or liability. As a basis for considering market participant assumptions in fair-value measurements, a fair-value hierarchy is established that distinguishes between market participant assumptions based on market data obtained from sources independent of the reporting entity (observable inputs that are classified within Levels 1 and 2 of the hierarchy) and the reporting entity's own assumptions about market participant assumptions (unobservable inputs classified within Level 3 of the hierarchy).

Level 1 inputs utilize quoted prices (unadjusted) in active markets for identical assets or liabilities that the Company has the ability to access. Level 2 inputs are inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. Level 2 inputs may include quoted prices for similar assets and liabilities in active markets, as well as inputs that are observable for the asset or liability (other than quoted prices), such as interest rates, foreign exchange rates, and yield curves that are observable at commonly quoted intervals. Level 3 inputs are unobservable inputs for the asset or liability, which are typically based on an entity's own assumptions, as there is little, if any, related market activity. In instances where the determination of the fair-value measurement is based on inputs from different levels of the fair-value hierarchy, the level in the fair-value hierarchy within which the entire fair-value measurement falls is based on the lowest level input that is significant to the fair-value measurement in its entirety. The Company's assessment of the significance of a particular input to the fair-value measurement in its entirety requires judgment, and considers factors specific to the asset or liability.

As of December 31, 2018, the Company valued its interest rate swaps primarily utilizing Level 2 inputs. See Note 17 – 'Fair Value of Financial Instruments' for additional details.

New Accounting Pronouncements

In February 2016, and further amended in 2018, the FASB issued ASU 2016-02, Leases (Topic 842), which supersedes the current lease guidance in ASC 840, Leases. The core principle of Topic 842 requires lessees to recognize the assets and liabilities that arise from nearly all leases in the statement of financial position. Accounting applied by lessors will remain largely consistent with previous guidance, with additional changes set to align lessor accounting with the revised lessee model and the FASB's revenue recognition guidance in Topic 606. The amendments in ASC 840 are effective for fiscal years beginning after December 15, 2018, including interim periods within those fiscal years. Early adoption is permitted. In July 2018, the FASB issued ASU 2018-11, Leases – Targeted Improvements (Topic 842), which updated the lease standard to include practical expedients that remove the requirement to restate prior period financial statements upon adoption of the standard as well as a practical expedient which allows lessors not to separate non-lease components from the related lease components if both the timing and pattern of transfer are the same for the non-lease component(s) and related lease component and the combined single lease component would be classified as an operating lease. The Company plans to adopt ASC 842 effective January 1, 2019 using the modified retrospective approach, which applies the provisions of the new guidance at the effective date without adjusting the comparative periods presented. The Company will elect the package of practical expedients permitted under the transition guidance within the new standard, which allows the Company to not reassess (i) whether expired or existing contracts contain a lease under the new standard, (ii) the lease classification for existing leases or (iii) whether previously-capitalized initial direct costs would qualify for capitalization under the new standard. In addition, the Company will not elect to use hindsight during transition. As lessee, the Company does not anticipate the classification of its leases to change but will recognize a new initial lease liability and right-of-use asset on the consolidated balance sheet for all operating leases which is expected to approximate \$75 million to \$80 million. This amount does not include leases that will commence subsequent to the initial adoption of ASC 842, one of which is a finance lease obligation the Company expects to approximate \$45 million. As lessor, accounting for our leases will remain largely unchanged, apart from the narrower definition of initial direct costs that can be capitalized. The new lease standard more narrowly defines initial direct costs as only costs that are incremental at the signing of a lease. As the Company does not currently capitalize non-incremental costs, it expects the impact of this change to be immaterial to the financial statements. Additionally, from a lessor perspective, the transition relief is expected to alleviate the Company's need to separate lease from certain non-lease components within its rental revenue contracts. The Company will disclose any changes to this analysis as identified.

In October 2016, the FASB issued ASU 2016-16, *Accounting for Income Taxes: Intra-Entity Asset Transfers of Assets Other than Inventory.* Under current GAAP, the tax effects of intra-entity asset transfers are deferred until the transferred asset is sold to a third party or otherwise recovered through use. The new guidance eliminates the exception for all intra-entity sales of assets other than inventory. As a result, a reporting entity would recognize the tax expense from the sale of the asset in the seller's tax jurisdiction when the transfer occurs, even though the pre-tax effects of that transaction are eliminated in consolidation. Any deferred tax asset that arises in the buyer's jurisdiction would also be recognized at the time of the transfer. The new guidance will be effective for public business entities in fiscal years beginning after December 15, 2017, including interim periods within those years. The Company adopted the standard in 2018, and the provisions of the standard have not had a material impact on its consolidated financial statements.

In August 2017, the FASB issued ASU 2017-12, *Derivatives and Hedging (Topic 815): Targeted Improvements to Accounting for Hedging Activities.* The amendments in ASU 2017-12 change the recognition and presentation

requirements of hedge accounting, including the elimination of the requirement to separately measure and report hedge ineffectiveness and the addition of a requirement to present all items that affect earnings in the same income statement line item as the hedged item. ASU 2017-12 also provides new alternatives for: applying hedge accounting to additional hedging strategies; measuring the hedged item in fair value hedges of interest rate risk; reducing the cost and complexity of applying hedge accounting by easing the requirements for effectiveness testing, hedge documentation and application of the critical terms match method; and reducing the risk of material error correction if a company applies the shortcut method inappropriately. The guidance is effective for public entities for fiscal years beginning after December 15, 2018, and interim periods within those fiscal years. Early application is permitted. The Company elected to early adopt this standard effective October 1, 2018, and the provisions of this standard did not have a material impact on its consolidated financial statements.

In August 2018, the FASB issued ASU 2018-13, *Fair Value Measurement* (Topic 820): Disclosure Framework – Changes to the Disclosure Requirements for Fair Value Measurement. The amendments in ASU 2018-13 eliminate the requirements to disclose the amount and reasons for transfers between Level 1 and Level 2 of the fair value hierarchy, valuation processes for Level 3 fair value measurements, and policy for timing of transfers between levels. ASU 2018-13 also provides clarification in the measurement uncertainty disclosure by explaining that the disclosure is to communicate information about the uncertainty in measurement as of the reporting date. In addition, ASU 2018-13 added the following requirements: changes in unrealized gains and losses for the period included in other comprehensive income for recurring Level 3 fair value measurements held at the end of the reporting period; and range and weighted average of significant unobservable inputs used in Level 3 fair value measurements. Finally, ASU 2018-13 updated language to further encourage entities to apply materiality when considering de minimus for disclosure requirements. The guidance will be applied retrospectively for fiscal years beginning after December 15, 2019, and interim periods within those fiscal years, with the exception of amendments to changes in unrealized gains and losses, the range and weighted average of significant unobservable inputs used for Level 3 fair value measurements, and the narrative description of measurement uncertainty which will be applied prospectively. Early adoption is permitted. The Company is currently assessing the impact of this standard on its consolidated financial statements.

In August 2018, the FASB issued ASU 2018-15, *Intangibles – Goodwill and Other – Internal-Use Software* (Subtopic 350-40): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement that is a Service Contract. The amendments in ASU 2018-15 require an entity in a service contract hosting arrangement apply Subtopic 350-40 to identify costs to capitalize or expense related to the service contract. ASU 2018-15 also requires the entity to capitalize the implementation costs of the service contract hosting arrangement and amortize such costs over the life of the contract and present the capitalized costs in the same line item as fees associated with the hosting service on the statement of income and statement of cash flows. The guidance will be applied retrospectively for fiscal years beginning after December 15, 2019, and interim periods within those fiscal years, with the exception of all implementation costs incurred after the date of adoption which will be applied prospectively. Early adoption is permitted. The Company is currently assessing the impact of this standard on its consolidated financial statements.

In October 2018, the FASB issued guidance codified in ASU 2018-16, *Derivatives and Hedging* (Topic 815): Inclusion of the Secured Overnight Financing Rate (SOFR) Overnight Index Swap (OIS) Rate as a Benchmark Interest Rate for Hedge Accounting Purposes. ASU 2018-16 permits the use of the OIS rate based on SOFR as a U.S. benchmark interest rate for hedge accounting purposes under Topic 815. The standard will be effective for interim and annual reporting periods beginning after December 15, 2018, with early adoption permitted for entities that have already adopted ASU 2017-12. The Company elected to early adopt this standard concurrent with ASU 2017-12, effective October 1, 2018, and the provisions of this standard did not have a material impact on our consolidated financial statements.

3. Acquisitions

(All references to square footage, acres and megawatts are unaudited)

Land Acquisitions

During 2018, the Company completed multiple acquisitions of land in Manassas, Virginia totaling 118 acres for approximately \$37.0 million. A portion of the land is currently being used to support the construction of a data center. These acquisitions were accounted for as asset acquisitions. The land acquired in the Manassas purchases, as well as subsequent costs for construction in progress, are included within the "Construction in Progress" line item of the consolidated balance sheets. Total construction in progress costs related the Manassas facility were \$116.2 million as of

December 31, 2018, of which \$71.0 million were included within the "Assets held for sale" line item of the consolidated balance sheets as the Company contributed the Manassas facility to a 50% owned joint venture subsequent to December 31, 2018.

In October 2018, the Company completed the acquisition of approximately 55 acres of land in Atlanta, Georgia for approximately \$80.1 million adjacent to its existing Atlanta-Metro mega data center. The land acquired contained existing buildings as well as a below market ground lease asset with the Company as lessee for a portion of the land. The total purchase price allocation recorded on the opening balance sheet is included within the following line items of the consolidated balance sheet as of December 31, 2018: \$0.4 million in "Buildings, improvement and equipment", \$2.3 million in "Acquired Intangibles, net" and \$77.4 million in "Construction in Progress." The acquisition was accounted for as an asset acquisition.

The Company completed multiple land acquisitions during the year ended December 31, 2017. In July 2017, the Company completed the acquisition of approximately 84 acres of land in Phoenix, Arizona for approximately \$25 million to be used for future development. In August 2017, the Company completed the acquisition of approximately 24 acres of land in Ashburn, Virginia for approximately \$17 million. In October 2017, the Company completed the acquisition of approximately 28 acres of land in Ashburn, Virginia for approximately \$36 million to be used for future development. In October 2017, the Company completed the acquisition of approximately 92 acres of land in Hillsboro, Oregon for approximately \$26 million to be used for future development. The fair value of the land acquired in each of the four aforementioned acquisitions, as well as costs associated with the subsequent development of the data center in Ashburn, aggregated \$163.6 million as of December 31, 2017 and was included within the "Construction in Progress" line item of the consolidated balance sheets.

Fort Worth Acquisition

On December 16, 2016, the Company completed the acquisition of the Fort Worth facility for approximately \$50.1 million. This facility is located in Fort Worth, Texas, and consists of 53 acres and approximately 262,000 gross square feet. This facility has a basis of design of 80,000 square feet and contains approximately 50 MW of available utility power. This acquisition was funded with a draw on the unsecured revolving credit facility.

The Company accounted for this acquisition in accordance with ASC 805, Business Combinations, as a business combination. The Company valued the assets acquired and liabilities assumed primarily using Level 3 inputs.

In December 2017, the Company finalized the Fort Worth purchase price allocation. The following table summarizes the consideration for the Fort Worth facility and the final allocation of the fair value of assets acquired and liabilities assumed at the acquisition date (in thousands):

	nal Fort Allocation as of ber 31, 2017	I	Preliminary Allocation Reported as of December 31, 2016	Adju	stments to Fair Value	
Land	\$	136	\$	136	\$	
Buildings and improvements		610		610		
Construction in progress		48,987		48,984		3
Acquired intangibles		237		240		(3)
Deferred costs		23		23		_
Other assets		7		7		
Net Working Capital		86		86		
Total identifiable assets acquired	\$	50,086	\$	50,086	\$	_

Acquired intangibles are amortized as both amortization expense as well as offsets to rental revenue.

Piscataway Acquisition

On June 6, 2016, the Company completed the acquisition of the Piscataway facility. This facility is located in the New York metro area on 38 acres and consists of 360,000 gross square feet, including approximately 89,000 square feet of raised floor, and approximately 18 MW of critical power. The Piscataway facility supports future growth with space for an additional approximately 87,000 square feet of raised floor in the existing structure, as well as capacity for over 8 MW of additional critical power. This acquisition was funded with a draw on the unsecured revolving credit facility.

The Company accounted for this acquisition in accordance with ASC 805, Business Combinations, as a business combination. The Company generally valued the assets acquired and liabilities assumed using Level 3 inputs.

In June 2017, the Company finalized the Piscataway purchase price allocation. The following table summarizes the consideration for the Piscataway facility and the final allocation of the fair value of assets acquired and liabilities assumed at the acquisition date (in thousands):

	Final Piscataway Allocation as of June 30, 2017		minary Allocation rted as of June 30, 2016	,	justments to Fair Value
Land	\$	7,466	\$ 7,440	\$	26
Buildings and improvements		80,366	78,370		1,996
Construction in progress		13,900	13,900		
Acquired intangibles		19,581	21,668		(2,087)
Deferred costs		4,390	4,084		306
Other assets		106	106		_
Total identifiable assets acquired		125,809	 125,568		241
Acquired below market lease		809	568		241
Net working capital		2,019	2,019		_
Total liabilities assumed		2,828	2,587		241
Net identifiable assets acquired	\$	122,981	\$ 122,981	\$	

There were no measurement period adjustments recorded during the 2017 reporting period associated with the Piscataway purchase price allocation.

Vault Asset Acquisition

On October 6, 2017, the Company completed the buyout of its Vault facility in Dulles, Virginia. The facility consists of approximately 87,000 gross square feet, including approximately 31,000 square feet of raised floor, and approximately 13 MW of available utility power. The Company previously leased the property under a capital lease agreement of approximately \$17.8 million and purchased it for approximately \$34.1 million cash, for a net purchase price of \$16.3 million. This acquisition was funded with a draw on the unsecured revolving credit facility.

The Company accounted for this acquisition in accordance with ASC Topic 840, Leases.

4. Acquired Intangible Assets and Liabilities

Summarized below are the carrying values for the major classes of intangible assets and liabilities (in thousands):

		December 31, 2018				December 31, 2017						
	Useful Lives	-	Gross Carrying Value		cumulated ortization	Ne	t Carrying Value	Gross Carrying Value		ccumulated nortization	No	et Carrying Value
Customer Relationships	12 years 0.5 to 10 years 17 years 3 years	\$	95,705 32,066 13,747 9,600	\$	(28,461) (17,670) (3,639) (9,600)	\$	67,244 14,396 10,108	\$ 95,705 32,066 13,747 9,600	\$	(20,512) (12,987) (2,830) (8,133)	\$	75,193 19,079 10,917 1,467
Acquired below market leases - as Lessee . Acquired above market leases - as Lessor . Tradenames	46 years 0.5 to 8 years 3 years	\$	2,301 4,649 3,100 161,168	\$	(3,247) (3,100) (65,717)	\$	2,301 1,402 — 95,451	\$ 4,649 3,100 158,867	\$	(2,328) (2,626) (49,416)	\$	2,321 474 109,451
Solar Power Agreement (1)	17 years		13,747		(3,639)		10,108	13,747		(2,830)		10,917
Acquired below market leases - as Lessor . Acquired above market leases - as Lessee . Total Intangible Liabilities (2).	3 to 4 years 11 to 12 years	\$	809 2,453 17,009	\$	(611) (767) (5,017)	\$	198 1,686 11,992	\$ 809 2,453 17,009	\$	(375) (550) (3,755)	\$	434 1,903 13,254

⁽¹⁾ Amortization related to the Solar Power Agreement asset and liability is recorded at the same rate and therefore has no net impact on the statement of operations.

⁽²⁾ Intangible liabilities are included within the "Advance rents, security deposits and other liabilities" line item of the consolidated balance sheets.

Above or below market leases are amortized as a reduction to or increase in rental revenue in the case of the Company as lessor as well as a reduction to or increase in rent expense in the case of the Company as lessee over the remaining lease terms. The net effect of amortization of acquired above-market and below-market leases resulted in a net decrease in rental revenue of \$0.5 million, \$0.9 million, and \$0.7 million for the years ended December 31, 2018, 2017 and 2016, respectively. The estimated amortization of acquired favorable and unfavorable leases for each of the five succeeding fiscal years ending December 31 is as follows (in thousands):

		ntal Revenue ecreases	Net Rental Expense Increase / (Decrease)			
2019	\$ 479		\$	(166)		
2020		647		(166)		
2021		46		(166)		
2022		17		(166)		
2023		17		(166)		
Thereafter				1,446		
Total	\$	1,205	\$	615		

Net amortization of all other identified intangible assets and liabilities was \$15.0 million, \$18.2 million and \$19.0 million for the years ended December 31, 2018, 2017 and 2016, respectively. The estimated net amortization of all other identified intangible assets and liabilities for each of the five succeeding fiscal years ending December 31 is as follows (in thousands):

2019	\$ 11,965
2020	11,379
2021	10,137
2022	9,910
2023	9,910
Thereafter	28,339
Total	\$ 81,640

5. Real Estate Assets and Construction in Progress

The following is a summary of properties owned or leased by the Company as of December 31, 2018 and 2017 (in thousands):

As of December 31, 2018:

		Buildings and Construction					
Property Location	Land	Im	Improvements in Progress			Total Cost	
Atlanta, Georgia (Atlanta-Metro)	\$ 20,416	\$	493,446	\$	88,253	\$	602,115
Irving, Texas	8,606		345,615		99,445		453,666
Richmond, Virginia	2,180		253,098		67,932		323,210
Chicago, Illinois	9,400		130,150		133,095		272,645
Ashburn, Virginia (1)	17,325		63,245		184,951		265,521
Suwanee, Georgia (Atlanta-Suwanee)	3,521		166,298		3,188		173,007
Piscataway, New Jersey	7,466		97,806		33,472		138,744
Manassas, Virginia (1) (5)	_		_		45,194		45,194
Santa Clara, California (2)	_		98,548		7,600		106,148
Dulles, Virginia	3,154		72,435		3,852		79,441
Fort Worth, Texas	9,079		18,623		43,715		71,417
Sacramento, California	1,481		64,874		92		66,447
Princeton, New Jersey	20,700		34,046		431		55,177
Leased facilities (3)	_		43,347		9,334		52,681
Hillsboro, Oregon (1)	_		_		39,835		39,835
Phoenix, Arizona (1)	_		_		29,562		29,562
Other (4)	2,213		35,720		113		38,046
	\$ 105,541	\$	1,917,251	\$	790,064	\$	2,812,856

⁽¹⁾ Represent land purchases. Land acquisition costs, as well as subsequent development costs, are included within construction in progress until development on the land has ended and the asset is ready for its intended use.

⁽²⁾ Owned facility subject to long-term ground sublease.

- (3) Includes 10 facilities. All facilities are leased, including those subject to capital leases.
- (4) Consists of Miami, FL; Lenexa, KS; and Overland Park, KS facilities.
- (5) Excludes \$71.0 million of construction in progress included within the "Assets held for sale" line item of the consolidated balance sheets.

As of December 31, 2017:

		Buildings and Constru			nstruction			
Property Location	Land	Im	provements	in Progress		Total Cost		
Atlanta, Georgia (Atlanta-Metro)	\$ 20,416	\$	452,836	\$	28,614	\$	501,866	
Irving, Texas	8,606		276,894		86,320		371,820	
Richmond, Virginia	2,180		254,603		61,888		318,671	
Chicago, Illinois	9,400		81,463		135,479		226,342	
Suwanee, Georgia (Atlanta-Suwanee)	3,521		165,915		3,620		173,056	
Piscataway, New Jersey	7,466		83,251		37,807		128,524	
Santa Clara, California (1)	_		100,028		6,989		107,017	
Ashburn, Virginia (2)	_		_		106,952		106,952	
Dulles, Virginia	3,154		76,239		3,565		82,958	
Sacramento, California	1,481		64,251		58		65,790	
Leased Facilities (3)	_		59,460		5,534		64,994	
Fort Worth, Texas	9,079		17,894		33,774		60,747	
Princeton, New Jersey	20,700		32,948		451		54,099	
Hillsboro, Oregon (2)	_		_		29,278		29,278	
Phoenix, Arizona (2)	_		_		27,402		27,402	
Other (4)	2,213		35,505		88		37,806	
	\$ 88,216	\$	1,701,287	\$	567,819	\$	2,357,322	

⁽¹⁾ Owned facility subject to long-term ground sublease.

6. Debt

Below is a listing of the Company's outstanding debt, including capital leases and lease financing obligations, as of December 31, 2018 and 2017 (in thousands):

	Weighted Average Coupon Interest Rate at December 31, 2018 (1)	Maturities as of December 31, 2018	December 31, 2018		December 31, 2017	
Unsecured Credit Facility						
Revolving Credit Facility	3.75%	December 17, 2022	\$	252,000	\$	131,000
Term Loan I	3.44%	December 17, 2023		350,000		350,000
Term Loan II	3.47%	April 27, 2024		350,000		350,000
Senior Notes	4.75%	November 15, 2025		400,000		400,000
Lenexa Mortgage	4.10%	May 1, 2022		1,801		1,866
Capital Lease and Lease Financing Obligations	4.34%	2019 - 2038		2,873		8,699
	3.89%			1,356,674		1,241,565
Less net debt issuance costs				(11,557)		(11,636)
Total outstanding debt, net			\$	1,345,117	\$	1,229,929

⁽¹⁾ The coupon interest rates associated with Term Loan I and Term Loan II incorporate the effects of the Company's interest rate swaps in effect as of December 31, 2018.

Credit Facilities, Senior Notes and Mortgage Notes Payable

(a) Unsecured Credit Facility – In November 2018, the Company executed an amendment to its amended and restated unsecured credit facility (the unsecured credit facility"), which among other things included extending the term, modifying or eliminating certain covenants and reduced pricing by 20 basis points. The unsecured credit facility includes a \$350 million term loan which matures on December 17, 2023, a \$350 million term loan which matures on April 27, 2024, and an \$820 million revolving credit facility which matures on December 17, 2022, with a one year extension option. Amounts outstanding under the amended unsecured credit facility bear interest at a variable rate equal to, at the Company's election, LIBOR or a base rate, plus a spread that will vary depending upon the Company's leverage ratio. For revolving credit loans, the spread ranges from 1.35% to 1.95% for LIBOR loans and 0.35% to 0.95% for base rate loans. For term loans, the spread ranges from 1.30% to 1.90% for LIBOR loans and 0.30% to 0.90% for base rate loans.

⁽²⁾ Represent land purchases. Land acquisition costs, as well as subsequent development costs, are included within construction in progress until development on the land has ended and the asset is ready for its intended use.

⁽³⁾ Includes 11 facilities. All facilities are leased, including those subject to capital leases.

⁽⁴⁾ Consists of Miami, FL; Lenexa, KS; Overland Park, KS; and Duluth, GA facilities.

The unsecured credit facility also provides for borrowing capacity of up to \$200 million in various foreign currencies, and a \$500 million accordion feature, subject to obtaining additional loan commitments.

Under the unsecured credit facility, the capacity may be increased from the current capacity of \$1.52 billion to \$2.02 billion subject to certain conditions set forth in the credit agreement, including the consent of the administrative agent and obtaining necessary commitments. The Company is also required to pay a commitment fee to the lenders assessed on the unused portion of the unsecured revolving credit facility. At the Company's election, it can prepay amounts outstanding under the unsecured credit facility, in whole or in part, without penalty or premium.

The Company's ability to borrow under the amended unsecured credit facility is subject to ongoing compliance with a number of customary affirmative and negative covenants. As of December 31, 2018, the Company was in compliance with all of its covenants.

As of December 31, 2018, the Company had outstanding \$952.0 million of indebtedness under the unsecured credit facility, consisting of \$252.0 million of outstanding borrowings under the unsecured revolving credit facility and \$700.0 million outstanding under the term loans, exclusive of net debt issuance costs of \$6.3 million. In connection with the unsecured credit facility, as of December 31, 2018, the Company had letters of credit outstanding aggregating to \$4.1 million. As of December 31, 2018, the weighted average interest rate for amounts outstanding under the unsecured credit facility, including the effects of interest rate swaps, was 3.53%.

The Company has also entered into certain interest rate swap agreements. See Note 7 – 'Interest Rate Swaps' for additional details.

(b) Senior Notes – On November 8, 2017, the Operating Partnership and QTS Finance Corporation, a subsidiary of the Operating Partnership formed solely for the purpose of facilitating the offering of the 5.875% Senior Notes due 2022 (collectively, the "Issuers"), the Company and certain of its other subsidiaries entered into a purchase agreement pursuant to which the Issuers issued \$400 million aggregate principal amount of 4.75% Senior Notes due November 15, 2025 (the "Senior Notes") in a private offering. The Senior Notes have an interest rate of 4.750% per annum and were issued at a price equal to 100% of their face value. The net proceeds from the offering were used to fund the redemption of, and satisfy and discharge the indenture pursuant to which the Issuers issued, all of their outstanding 5.875% Senior Notes and to repay a portion of the amount outstanding under the Company's unsecured revolving credit facility. As of December 31, 2018, the outstanding net debt issuance costs associated with the Senior Notes were \$5.2 million.

The Senior Notes are unconditionally guaranteed, jointly and severally, on a senior unsecured basis by all of the Operating Partnership's existing subsidiaries (other than foreign subsidiaries and receivables entities) and future subsidiaries that guarantee any indebtedness of QTS Realty Trust, Inc., the Issuers or any other subsidiary guarantor, other than QTS Finance Corporation, the co-issuer of the Senior Notes. QTS Realty Trust, Inc. does not guarantee the Senior Notes and will not be required to guarantee the Senior Notes except under certain circumstances. The offering was conducted pursuant to Rule 144A of the Securities Act of 1933, as amended, and the Senior Notes were issued pursuant to an indenture, dated as of November 8, 2017, among QTS, the Issuers, the guarantors named therein, and Deutsche Bank Trust Company Americas, as trustee.

The annual remaining principal payment requirements as of December 31, 2018 per the contractual maturities and excluding extension options, capital leases and lease financing obligations, are as follows (in thousands):

2019	\$	62
2020		71
2021		74
2022		253,594
2023		
Thereafter		750,000
Total	\$ 1	,353,801

As of December 31, 2018, the Company was in compliance with all of its covenants.

Capital Leases

The Company has historically entered into capital leases for certain data center equipment as well as fiber optic transmission cabling. In addition, through its acquisition of Carpathia on June 16, 2015, the Company acquired capital leases of both equipment and certain properties. Total outstanding liabilities for capital leases were \$2.7 million as of December 31, 2018, of which \$0.3 million were assumed through the Carpathia acquisition, all of which was related to the lease of real property. Carpathia had entered into capital lease arrangements for datacenter space under two lease agreements that expired in 2018 and 2019 at its Harrisonburg, Virginia and Ashburn, Virginia locations. Total recurring monthly payments range from approximately \$0.2 million to \$0.5 million during the terms of the leases, in addition to payments made for utilities. Depreciation related to the associated assets for the capital leases is included in depreciation and amortization expense in the Statements of Operations.

The following table summarizes the Company's combined future payment obligations, excluding interest, as of December 31, 2018, on capital leases and lease financing obligations (in thousands):

2019	\$ 994
2020	151
2021	48
2022	44
2023	49
Thereafter	1,587
Total	\$ 2,873

7. Interest Rate Swaps

The Company's objectives in using interest rate swaps are to reduce variability in interest expense and to manage exposure to adverse interest rate movements. To accomplish this objective, the Company primarily uses interest rate swaps as part of its interest rate risk management strategy. Interest rate swaps designated as cash flow hedges involve the receipt of variable amounts from a counterparty in exchange for the Company making fixed-rate payments over the life of the agreements without exchange of the underlying notional amount.

On April 5, 2017, the Company entered into forward interest rate swap agreements with an aggregate notional amount of \$400 million. The forward swap agreements effectively fix the interest rate on \$400 million of term loan borrowings, \$200 million of swaps allocated to each term loan, from January 2, 2018 through December 17, 2021 and April 27, 2022, respectively, at approximately 3.3% assuming the current LIBOR spread of 1.3%.

On December 20, 2018, the Company entered into additional forward interest rate swap agreements with an aggregate notional amount of \$400 million. The forward swap agreements effectively fix the interest rate on \$400 million of term loan borrowings, \$200 million of swaps allocated to each term loan, from December 17, 2021 and April 27, 2022 through the current maturity dates of the respective term loans which are December 17, 2023 and April 27, 2024, respectively. The weighted average effective fixed interest rate on the \$400 million notional amount of term loan financing following the execution of these swap agreements will approximate 3.9%, commencing on December 17, 2021 and April 27, 2022, assuming the current LIBOR spread of 1.3%. Additionally, the Company entered into forward interest rate swap agreements with an aggregate notional amount of \$200 million. The forward swap agreements effectively fix the interest rate on \$200 million of additional term loan borrowings, \$100 million of swaps allocated to each term loan, from January 2, 2020 through the current maturity dates of December 17, 2023 and April 27, 2024, respectively.

The Company reflects its interest rate swap agreements, which are designated as cash flow hedges, at fair value as either assets or liabilities on the consolidated balance sheets within the "Other assets, net" or "Advance rents, security deposits and other liabilities" line items, as applicable. As of December 31, 2018, the fair value of interest rates swaps included an asset of \$5.3 million as well as a liability of \$3.0 million. As of December 31, 2017, the fair value of interest rate swaps was an asset of \$1.4 million.

The forward interest rate swap agreements are derivatives that currently qualify for hedge accounting whereby the Company records the effective portion of changes in fair value of the interest rate swaps in accumulated other comprehensive income or loss on the consolidated balance sheets and statements of comprehensive income which is

subsequently reclassified into earnings in the period that the hedged forecasted transaction affects earnings. Any ineffective portion of a derivative's change in fair value is immediately recognized within net income. The amount reclassified from other comprehensive income to interest expense on the consolidated statements of operations was \$0.1 million for the year ended December 31, 2018. No amounts were reclassified from other comprehensive income to interest expense on the consolidated statements of operations for the years ended December 31, 2017 and 2016. There was no ineffectiveness recognized for the years ended December 31, 2018, 2017 and 2016. During the subsequent twelve months, beginning January 1, 2019, we estimate that \$2.1 million will be reclassified from other comprehensive income as a reduction to interest expense.

Interest rate derivatives and their fair values as of December 31, 2018 and December 31, 2017 were as follows (in thousands):

		Fixed One Month				
Notional	Amount	LIBOR rate per			Fair V	alue (1)
December 31, 2018	December 31, 2017	annum	Effective Date	Expiration Date	December 31, 2018	December 31, 2017
\$ 25,000	\$ 25,000	1.989%	January 2, 2018	December 17, 2021	\$ 331	\$ 100
100,000	100,000	1.989%	January 2, 2018	December 17, 2021	1,318	401
75,000	75,000	1.989%	January 2, 2018	December 17, 2021	990	298
50,000	50,000	2.033%	January 2, 2018	April 27, 2022	667	158
100,000	100,000	2.029%	January 2, 2018	April 27, 2022	1,341	337
50,000	50,000	2.033%	January 2, 2018	April 27, 2022	666	155
100,000	_	2.617%	January 2, 2020	December 17, 2023	(782)	_
100,000	_	2.621%	January 2, 2020	April 27, 2024	(818)	_
200,000	_	2.636%	December 17, 2021	December 17, 2023	(722)	_
200,000	_	2.642%	April 27, 2022	April 27, 2024	(648)	_
\$ 1,000,000	\$ 400,000				\$ 2,343	\$ 1,449

⁽¹⁾ Balance recorded in "other assets, net" in the consolidated balance sheets if in an asset position and recorded in "Advance rents, security deposits and other liabilities" in the consolidated balance sheets if in a liability position.

8. Restructuring

On February 20, 2018, the Company announced a strategic growth plan to realign its product offerings around its hyperscale and hybrid colocation product offerings, along with technology and services from the Company's cloud and managed services business that support hyperscale and hybrid colocation customers. As part of the strategic growth plan, the Company narrowed its focus around certain of its cloud and managed services offerings and on April 24, 2018, the Company entered into definitive agreements with General Datatech, L.P. ("GDT"), an international provider of managed IT solutions, pursuant to which the Company agreed to assign to GDT certain assets, contracts and liabilities associated with the Company's cloud and managed services products. These assets primarily consist of customer contracts and certain physical equipment. As of December 31, 2018, the Company had successfully completed the migration of the associated customers and transitioned impacted assets, contracts and liabilities to GDT. In connection with the definitive agreements, the Company and GDT also agreed to an ongoing relationship where the Company will lease data center space to GDT as well as provide ongoing services to GDT to support the transitioned customers. Expenses associated with the strategic growth plan are included in the "Restructuring" line item on the consolidated statements of operations. The Company does not expect to incur restructuring expenses related to the strategic growth plan during the year ended December 31, 2019.

Restructuring expenses incurred during year ended December 31, 2018 are as follows (in thousands):

		Equity-Based		
		Compensation and Product-Related		
	Severance	Professional Fees	and Other	Total
Restructuring expense	\$ 6,910 (1) \$	7,740 (2) \$	23,293 (3)	\$ 37,943

⁽¹⁾ As of December 31, 2018, the outstanding liability for accrued but unpaid severance expense was \$0.4 million, which is included in the "Accounts payable and accrued liabilities" line item of the consolidated balance sheets.

9. Commitments and Contingencies

The Company is subject to various routine legal proceedings and other matters in the ordinary course of business. The Company currently does not have any litigation that would have a material adverse impact on the Company's financial statements.

10. Partners' Capital, Equity and Incentive Compensation Plans

QualityTech, LP

QTS has the full power and authority to do all the things necessary to conduct the business of the Operating Partnership.

As of December 31, 2018, the Operating Partnership had four classes of limited partnership units outstanding: Series A Preferred Stock Units, Series B Convertible Preferred Stock Units, Class A units of limited partnership interest ("Class A units") and Class O LTIP units of limited partnership units ("Class O units"). The Class A units are now redeemable at any time for cash or shares of Class A common stock of QTS. The Company may in its sole discretion elect to assume and satisfy the redemption amount with cash or its shares. Class O units were issued upon grants made under the QualityTech, LP 2010 Equity Incentive Plan (the "2010 Equity Incentive Plan"). Class O units are pari passu with Class A units. Each Class O unit is convertible into Class A units by the Operating Partnership at any time or by the holder at any time following full vesting (if such unit is subject to vesting) based on formulas contained in the partnership agreement.

QTS Realty Trust, Inc.

In connection with its IPO, QTS issued Class A common stock and Class B common stock. Class B common stock entitles the holder to 50 votes per share and was issued to enable the Company's Chief Executive Officer to exchange 2% of his Operating Partnership units so he may have a vote proportionate to his economic interest in the Company. Also in connection with its IPO, QTS adopted the QTS Realty Trust, Inc. 2013 Equity Incentive Plan (the "2013 Equity Incentive Plan"), which authorized 1.75 million shares of Class A common stock to be issued under the 2013 Equity Incentive Plan, including options to purchase Class A common stock if exercised. In May 2015, the total number of shares available for issuance under the 2013 Equity Incentive Plan was increased to 4,750,000.

⁽²⁾ As of December 31, 2018, there was no outstanding liability for accrued but unpaid equity based compensation and professional fees expense.

⁽³⁾ Product-related and other expenses primarily relate to impairment write-downs of depreciated property as well as losses incurred on the sale of equipment. As of December 31, 2018, the outstanding liability for accrued but unpaid product related and other expense was \$2.3 million, which is included in the "Accounts payable and accrued liabilities" line item of the consolidated balance sheets.

The following is a summary of award activity under the 2010 Equity Incentive Plan and 2013 Equity Incentive Plan and related information for the years ended December 31, 2018, 2017 and 2016:

	2010 Equity Incentive Plan				2013 Equity Incentive Plan					
	Number of Class O units	Weighted average exercise price	Weighted Average fair value	Number of Class RS units	Weighted average Grant date value	Options	Weighted average exercise price	Weighted average fair value	Restricted Stock	Weighted average Grant date value
Outstanding at January 1, 2016	1,292,899	\$ 23.76	\$ 3.68	39,875	\$ 22.18	867,882	\$ 27.80	\$ 5.56	394,908	\$ 33.82
Granted	_	_	_	_	_	229,693	45.78	9.91	237,563	45.53
Exercised/Vested (1)	(158,088)	21.56	4.18	_	_	(29,543)	25.70	4.96	(122,136)	33.26
Released from restriction	`	_	_	(39,875)	22.18		_	_	`	_
Cancelled/Expired (2)	_	_	_	`	_	(9,735)	32.14	6.95	(95,644)	33.92
Outstanding at December 31, 2016	1,134,811	\$ 24.06	\$ 3.62	_	s —	1,058,297	\$ 31.72	\$ 6.51	414,691	\$ 40.67
Granted						468,875	50.66	10.32	228,576	49.86
Exercised/Vested (1)	(566,771)	24.60	2.24	_	_	(155,902)	31.89	6.60	(163,048)	40.63
Cancelled/Expired (2)	· · · · · ·	_	_	_	_	(2,000)	37.69	8.77	(98,355)	39.97
Outstanding at December 31, 2017	568,040	\$ 23.52	\$ 5.00	_	s —	1,369,270	\$ 38.18	\$ 7.80	381,864	\$ 46.37
Granted						674,081	34.05	5.63	348,152	35.27
Exercised/Vested (1)	(465,761)	23.40	4.76	_	_	(6,188)	21.50	3.68	(224,660)	46.23
Cancelled/Expired (2)		_	_	_	_		_	_	(85,047)	43.50
Outstanding at December 31, 2018	102,279	\$ 24.05	\$ 5.67		<u>s </u>	2,037,163	\$ 36.86	\$ 7.10	420,309	\$ 37.83

⁽¹⁾ This represents the Class A common stock that has been released from restriction and which was not surrendered by the holder to satisfy their statutory minimum federal and state tax obligations associated with the vesting of restricted common stock. This also represents Class O units which were converted to Class A units and options to purchase Class A common stock which were exercised for their respective columns.

The assumptions and fair values for restricted stock and options to purchase shares of Class A common stock granted for the years ended December 31, 2018, 2017 and 2016 are included in the following table on a per share basis. Options to purchase shares of Class A common stock were valued using the Black-Scholes model.

	2018	2017	2016
Fair value of restricted stock granted	\$34.03 - \$54.01	\$48.63 - \$51.88	\$45.78 - \$56.28
Fair value of options granted	\$5.55 - \$5.64	\$10.11 - \$10.36	\$9.57 - \$9.97
Expected term (years)	5.5 - 6.0	5.5 - 5.9	5.5 - 5.9
Expected volatility	28%	28%	30.7% - 31.3%
Expected dividend yield		3.08%	3.14%
Expected risk-free interest rates	2.69% - 2.73%	2.12% - 2.18%	1.42% - 1.48%

The following tables summarize information about awards outstanding as of December 31, 2018.

	Operating I	Partnership Awar	ds Outstanding
Class O Units	Exercise prices \$ 20.00 - 25.00	Awards outstanding 102,279 102,279	Weighted average remaining vesting period (years)
	QTS Realty	Trust, Inc. Awar	ds Outstanding
			Weighted average
		Awards	remaining
	Exercise prices	outstanding	vesting period (years)
Restricted stock	\$ —	420,309	1.7
Options to purchase Class A common stock	\$ 21.00 - 50.66	2,037,163	1.3
Total QTS Realty Trust, Inc. awards outstanding		2,457,472	

Any remaining nonvested awards are valued as of the grant date and generally vest ratably over a defined service period. As of December 31, 2018 there were approximately 0.4 million and 0.8 million nonvested restricted Class A common stock and options to purchase Class A common stock outstanding, respectively. As of December 31, 2018 the Company had \$13.7 million of unrecognized equity-based compensation expense which will be recognized over a remaining weighted-average vesting period of 1.4 years. The total intrinsic value of the awards outstanding at December 31, 2018 was \$25.5 million.

⁽²⁾ Includes restricted Class A common stock surrendered by certain employees to satisfy their statutory minimum federal and state tax obligations associated with the vesting of restricted common stock.

Dividends and Distributions

The following tables present quarterly cash dividends and distributions paid to QTS' common and preferred stockholders and the Operating Partnership's unit holders for the years ended December 31, 2018 and 2017:

Year	Ended	December	31.	2018
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Record Date	Payment Date		Share and Unit Rate	Aggregate Dividend/Distribution Amount (in millions)		
Common Stock September 20, 2018. June 20, 2018. March 22, 2018. December 5, 2017.	October 4, 2018 July 6, 2018 April 5, 2018 January 5, 2018	\$	0.41 0.41 0.41 0.39 1.62	\$	23.7 23.7 23.7 22.2 93.3	
Series A Preferred Stock September 28, 2018. June 29, 2018. April 5, 2018.	October 15, 2018 July 16, 2018 April 16, 2018	\$ <u>\$</u>	0.45 0.45 0.15 1.04	\$	1.9 1.9 0.6 4.4	
Series B Preferred Stock September 30, 2018	October 15, 2018	\$	1.99	<u>\$</u> \$	6.3	

Year Ended December 31, 2017

Record Date	Payment Date	 Per Share and Per Unit Rate	Divid	Aggregate end/Distribution unt (in millions)
Common Stock				
September 22, 2017	October 5, 2017	\$ 0.39	\$	22.2
June 16, 2017	July 6, 2017	0.39		21.6
March 16, 2017	April 5, 2017	0.39		21.4
December 16, 2016	January 5, 2017	0.36		19.7
		\$ 1.53	\$	84.9

Additionally, subsequent to December 31, 2018, the Company paid the following dividends:

- On January 8, 2019, the Company paid its regular quarterly cash dividend of \$0.41 per common share and per unit in the Operating Partnership to stockholders and unit holders of record as of the close of business on December 21, 2018.
- On January 15, 2019, the Company paid a quarterly cash dividend of approximately \$0.45 per share on its Series A Preferred Stock to holders of Series A Preferred Stock of record as of the close of business on December 31, 2018.
- On January 15, 2019, the Company paid a cash dividend for the period of October 15, 2018 through January 14, 2019 of approximately \$1.63 per share on its Series B Preferred Stock to holders of Series B Preferred Stock of record as of the close of business on December 31, 2018.

Equity Issuances

In March 2017, the Company established an "at-the-market" equity offering program (the "ATM Program") pursuant to which the Company may issue, from time to time, up to \$300 million of its Class A common stock. The Company issued no shares under the ATM Program during the year ended December 31, 2018.

On March 15, 2018, QTS issued 4,280,000 shares of 7.125% Series A Cumulative Redeemable Perpetual Preferred Stock ("Series A Preferred Stock") with a liquidation preference of \$25.00 per share, which included 280,000 shares of the underwriters' partial exercise of their option to purchase additional shares. The Company used the net proceeds of approximately \$103.2 million to repay amounts outstanding under its unsecured revolving credit facility. In connection with the issuance of the Series A Preferred Stock, on March 15, 2018 the Operating Partnership issued to the Company 4,280,000 Series A Preferred Units, which have economic terms that are substantially similar to the Company's Series A Preferred Stock. The Series A Preferred Units were issued in exchange for the Company's contribution of the net offering proceeds of the offering of the Series A Preferred Stock to the Operating Partnership.

Dividends on the Series A Preferred Stock are payable quarterly in arrears on or about the 15th day of each January, April, July and October. The first dividend on the Series A Preferred Stock was paid on April 16, 2018, in the amount of \$0.14844 per share for the period March 15, 2018 through April 14, 2018. The Series A Preferred Stock does not have a stated maturity date and is not subject to any sinking fund or mandatory redemption provisions. Upon liquidation, dissolution or winding up, the Series A Preferred Stock will rank senior to common stock and pari passu with the Series B Preferred Stock with respect to the payment of distributions and other amounts. Except in instances relating to preservation of QTS's qualification as a REIT or pursuant to the Company's special optional redemption right, the Series A Preferred Stock is not redeemable prior to March 15, 2023. On and after March 15, 2023, the Company may, at its option, redeem the Series A Preferred Stock, in whole, at any time, or in part, from time to time, for cash at a redemption price of \$25.00 per share, plus any accrued and unpaid dividends (whether or not declared) to, but not including, the date of redemption.

Upon the occurrence of a change of control, the Company has a special optional redemption right that enables it to redeem the Series A Preferred Stock, in whole, at any time, or in part, from time to time, within 120 days after the first date on which a change of control has occurred resulting in neither QTS nor the surviving entity having a class of common shares listed on the NYSE, NYSE Amex, or NASDAQ or the acquisition of beneficial ownership of its stock entitling a person to exercise more than 50% of the total voting power of all our stock entitled to vote generally in election of directors. The special optional redemption price is \$25.00 per share, plus any accrued and unpaid dividends (whether or not declared) to, but not including, the date of redemption.

Upon the occurrence of a change of control, holders will have the right (unless the Company has elected to exercise its special optional redemption right to redeem their Series A Preferred Stock) to convert some or all of such holder's Series A Preferred Stock into a number of shares of Class A common stock, par value \$0.01 per share, equal to the lesser of:

- the quotient obtained by dividing (i) the sum of the \$25.00 liquidation preference plus the amount of any accrued and unpaid dividends (whether or not declared) to, but not including, the change of control conversion date (unless the change of control conversion date is after a record date for a Series A Preferred Stock dividend payment and prior to the corresponding Series A Preferred Stock dividend payment date, in which case no additional amount for such accrued and unpaid dividend will be included in this sum) by (ii) the Common Stock Price; and
- 1.46929 (i.e., the Share Cap);

subject, in each case, to certain adjustments and provisions for the receipt of alternative consideration of equivalent value as described in the prospectus supplement for the Series A Preferred Stock.

On June 25, 2018, QTS issued 3,162,500 shares of 6.50% Series B Cumulative Convertible Perpetual Preferred Stock ("Series B Preferred Stock") with a liquidation preference of \$100.00 per share, which included 412,500 shares the underwriters purchased pursuant to the exercise of their overallotment option in full. The Company used the net proceeds of approximately \$304 million to repay amounts outstanding under its unsecured revolving credit facility. In connection with the issuance of the Series B Preferred Stock, on June 25, 2018 the Operating Partnership issued to the Company 3,162,500 Series B Preferred Units, which have economic terms that are substantially similar to the Company's Series B Preferred Stock. The Series B Preferred Units were issued in exchange for the Company's contribution of the net offering proceeds of the offering of the Series B Preferred Stock to the Operating Partnership.

Dividends on the Series B Preferred Stock are payable quarterly in arrears on or about the 15th day of each January, April, July and October. The first dividend on the Series B Preferred Stock was paid on October 15, 2018, in the amount of \$1.9861111 per share for the period June 25, 2018 through October 14, 2018. The Series B Preferred Stock is convertible by holders into shares of Class A common stock at any time at the then-prevailing conversion rate. The

initial conversion rate is 2.1264 shares of the Company's Class A common stock per share of Series B Preferred Stock. The Series B Preferred Stock does not have a stated maturity date. Upon liquidation, dissolution or winding up, the Series B Preferred Stock will rank senior to common stock and pari passu with the Series A Preferred Stock with respect to the payment of distributions and other amounts. The Series B Preferred Stock will not be redeemable by the Company. At any time on or after July 20, 2023, the Company may at its option cause all (but not less than all) outstanding shares of the Series B Preferred Stock to be automatically converted into the Company's Class A common stock at the then-prevailing conversion rate if the closing sale price of the Company's Class A common stock is equal to or exceeds 150% of the then-prevailing conversion price for at least 20 trading days in a period of 30 consecutive trading days, including the last trading day of such 30-day period, ending on the trading day prior to the issuance of a press release announcing the mandatory conversion.

If a holder converts its shares of Series B Preferred Stock at any time beginning at the opening of business on the trading day immediately following the effective date of a fundamental change (as described in the prospectus supplement) and ending at the close of business on the 30th trading day immediately following such effective date, the holder will automatically receive a number of shares of the Company's Class A common stock equal to the greater of:

- the sum of (i) a number of shares of the Company's Class A common stock, as may be adjusted, as described in the Articles Supplementary for the 6.50% Series B Cumulative Convertible Perpetual Preferred Stock filed with the State Department of Assessments and Taxation of Maryland on June 22, 2018 (the "Articles Supplementary") and (ii) the make-whole premium described in the Articles Supplementary; and
- a number of shares of the Company's Class A common stock equal to the lesser of (i) the liquidation preference divided by the average of the daily volume weighted average prices of the Company's Class A common stock for ten days preceding the effective date of a fundamental change and (ii) 5.1020 (subject to adjustment).

OTS Realty Trust, Inc. Employee Stock Purchase Plan

In June 2015, the Company established the QTS Realty Trust, Inc. Employee Stock Purchase Plan (the "2015 Plan") to give eligible employees the opportunity to purchase, through payroll deductions, shares of the Company's Class A common stock in the open market by an independent broker with the Company paying brokerage commissions and fees associated with such share purchases. The 2015 Plan became effective July 1, 2015. The Company reserved 250,000 shares of its Class A common stock for purchase under the 2015 Plan, which were registered pursuant to a registration statement on Form S-8 filed on June 17, 2015.

On May 4, 2017, the stockholders of the Company approved an amendment and restatement of the Plan (the "2017 Plan"). The 2017 Plan became effective July 1, 2017 and is administered by the compensation committee (the "Compensation Committee") of the board of directors (or by a committee of one or more persons appointed by it or the board of directors). The 2017 Plan permits participants to purchase the Company's Class A common stock at a discount of up to 10% (as determined by the Compensation Committee). Employees of the Company and its majority-owned subsidiaries who have been employed for at least thirty days and who perform at least thirty hours of service per week for the Company are eligible to participate in the 2017 Plan, excluding any employee who, at any time during which the payroll deductions are made on behalf of the participating employees to purchase stocks, owns shares representing five percent or more of the total combined voting power or value of all classes of shares of the Company, or who is a Section 16 officer. Under the 2017 Plan, there are four purchase periods per year, and participants may deduct a minimum of \$20 per paycheck and a maximum of \$1,000 per paycheck towards the purchase of shares. Shares purchased under the 2017 Plan are subject to a one-year holding period following the purchase date, during which they may not be sold or transferred.

11. Related Party Transactions

The Company periodically executes transactions with entities affiliated with its Chairman and Chief Executive Officer. Such transactions include automobile, furniture and equipment purchases as well as building operating lease payments and receipts, and reimbursement for the use of a private aircraft service by the Company's officers and directors.

The transactions which occurred during the years ended December 31, 2018, 2017 and 2016 are outlined below (in thousands):

	December 31,					
(dollars in thousands)	2018 2017		2016			
Tax, utility, insurance and other reimbursement	\$	724	\$	796	\$	878
Rent expense		1,014		1,014		1,014
Capital assets acquired		464		561		323
Total	\$	2,202	\$	2,371	\$	2,215

12. Employee Benefit Plan

The Company sponsors a defined contribution 401(k) retirement plan covering all eligible employees.

Qualified employees may elect to contribute to the 401(k) Plan on a pre-tax basis. The maximum amount of employee contribution is subject only to statutory limitations. Starting on January 1, 2015, the Company matched 50% of the first 6% of contributions made by employees. Since January 1, 2016, the Company has matched 100% of the first 1% of contributions and 50% of the next 5% of contributions made by employees. The Company contributed \$2.5 million, \$2.6 million and \$2.5 million to the 401(k) Plan for the years ended December 31, 2018, 2017 and 2016, respectively.

13. Noncontrolling Interest

Concurrently with the completion of the IPO, QTS consummated a series of transactions pursuant to which QTS became the sole general partner and majority owner of QualityTech, LP, which then became its operating partnership. The previous owners of QualityTech, LP retained 21.2% ownership of the Operating Partnership as of the date of the IPO.

Commencing at any time beginning November 1, 2014, at the election of the holders of the noncontrolling interest, the Class A units of the Operating Partnership are redeemable for cash or, at the election of the Company, Class A common stock of the Company on a one-for-one basis. As of December 31, 2018, the noncontrolling ownership interest percentage of QualityTech, LP was 11.5%.

14. Earnings per share of QTS Realty Trust, Inc.

Basic income per share is calculated by dividing the net income attributable to common shares by the weighted average number of common shares outstanding during the period. Diluted income per share adjusts basic income per share for the effects of potentially dilutive common shares. Unvested restricted stock awards contain non-forfeitable rights to dividends and thus are participating securities and are included in the computation of earnings per share pursuant to the two-class method for all periods presented. The two-class method is an earnings allocation formula that treats a participating security as having rights to undistributed earnings that would otherwise have been available to common stockholders. Accordingly, service-based restricted stock awards were included in the calculation of earnings per share using the two-class method for all periods presented.

The computation of basic and diluted net income per share is as follows (in thousands, except per share data):

	Year Ended December 31,					
		2018		2017		2016
Numerator:						
Net income (loss)	\$	(7,175)	\$	1,457	\$	24,685
Loss (income) attributable to noncontrolling interests		2,715		(175)		(3,160)
Preferred stock dividends		(16,666)				
Earnings attributable to participating securities		(947)		(593)		3,160
Net income (loss) available to common stockholders after allocation of						,
participating securities	\$	(22,073)	\$	689	\$	24,685
Denominator:						
Weighted average shares outstanding - basic		50,433		48,381		46,206
Effect of Class A partnership units		´ —		6,696		6,783
Effect of Class O units and options to purchase Class A common stock on				,		,
an "as if" converted basis				779		973
Weighted average shares outstanding - diluted	_	50,433		55,856	_	53,962
The state of the s		00,.00			_	00,702
Basic net income (loss) per share.	\$	(0.44)	\$	0.01	\$	0.47
Busice nee moonic (1000) per situaci	Ψ	(0.11)	Ψ	0.01	Ψ	0.17
Diluted net income (loss) per share	\$	(0.44)	\$	0.01	\$	0.46

^{*} Note: The table above does not include Class A partnership units of 6.7 million for the year ended December 31, 2018, 0.4 million reflecting the effects of Class O units and options to purchase common stock on an "as if" converted basis for the year ended December 31, 2018, and 3.5 million reflecting the effects of Series B Convertible preferred stock on an "as if" converted basis for the year ended December 31, 2018, as their respective inclusion would have been antidilutive.

15. Operating Leases, as Lessee

The Company leases and/or licenses several data center facilities and related equipment, its corporate headquarters and additional office space. Many of the data center facilities that the Company leases were acquired in 2015 through its acquisition of Carpathia. In addition, the Company has entered into a long-term ground sublease for its Santa Clara property through October 2052. Rent expense for the aforementioned leases was \$15.4 million, \$17.9 million and \$20.1 million for the years ended December 31, 2018, 2017 and 2016, respectively, and is classified in property operating costs and general and administrative expenses in the accompanying Statements of Operations. The Company recorded \$0.1 million of capitalized rent for the year ended December 31, 2016. The Company recorded no capitalized rent for the years ended December 31, 2018 and 2017. The future non-cancellable minimum rental payments required under operating leases and/or licenses at December 31, 2018 are as follows (in thousands):

Year Ending December 31,	
2019	\$ 14,778
2020	11,128
2021	11,008
2022	10,161
2023	10,250
Thereafter	57,221
Total	\$ 114,546

16. Contracts with Customers

Future minimum payments to be received under non-cancelable customer contracts (inclusive of payments for contracts which have not yet commenced, and exclusive of recoveries of operating costs from customers) are as follows for the years ending December 31 (in thousands):

Year Ending December 31,	
2019	\$ 355,440
2020	291,162
2021	232,905
2022	152,069
2023	84,368
Thereafter	112,889
Total	\$ 1,228,833

17. Fair Value of Financial Instruments

ASC Topic 825, *Financial Instruments*, requires disclosure of fair value information about financial instruments, whether or not recognized in the consolidated balance sheets, for which it is practicable to estimate that value. In cases where quoted market prices are not available, fair values are based upon the application of discount rates to estimated future cash flows based upon market yields or by using other valuation methodologies. Considerable judgment is necessary to interpret market data and develop estimated fair value. Accordingly, fair values are not necessarily indicative of the amounts the Company could realize on disposition of the financial instruments. The use of different market assumptions and/or estimation methodologies may have a material effect on estimated fair value amounts.

Short-term instruments: The carrying amounts of cash and cash equivalents and restricted cash approximate fair value.

Interest rate swaps: Currently, the Company uses interest rate swaps to manage its interest rate risk. The valuation of these instruments is determined using widely accepted valuation techniques including discounted cash flow analysis on the expected cash flows of each derivative. This analysis reflects the contractual terms of the derivatives, including the period to maturity, and uses observable market-based inputs, including interest rate curves. The fair values of interest rate swaps are determined using the market standard methodology of netting the discounted future fixed cash receipts (or payments) and the discounted expected variable cash payments (or receipts). The variable cash payments (or receipts) are based on an expectation of future interest rates (forward curves) derived from observable market interest rate curves. To comply with the provisions of fair value accounting guidance, the Company incorporates credit valuation adjustments to appropriately reflect both its own nonperformance risk and the respective counterparty's nonperformance risk in the fair value measurements. In adjusting the fair value of its derivative contracts for the effect of nonperformance risk, the Company has considered the impact of netting and any applicable credit enhancements, such as collateral postings, thresholds, mutual puts, and guarantees.

Although the Company has determined that the majority of the inputs used to value its derivatives fall within Level 2 of the fair value hierarchy, the credit valuation adjustments associated with its derivatives utilize Level 3 inputs, such as estimates of current credit spreads to evaluate the likelihood of default by the Company and its counterparties. However, as of December 31, 2018, the Company assessed the significance of the impact of the credit valuation adjustments on the overall valuation of its derivative positions and has determined that the credit valuation adjustments are not significant to the overall valuation of its derivatives. As a result, the Company has determined that its derivative valuations in their entirety are classified in Level 2 of the fair value hierarchy. The Company does not have any fair value measurements on a recurring basis using significant unobservable inputs (Level 3) as of December 31, 2018 or December 31, 2017.

Credit facility and Senior Notes: The Company's unsecured credit facility did not have interest rates which were materially different than current market conditions and therefore, the fair value approximated the carrying value. The fair value of the Company's Senior Notes was estimated using Level 2 "significant other observable inputs," primarily based on quoted market prices for the same or similar issuances. At December 31, 2018, the fair value of the Senior Notes was approximately \$374.0 million.

Other debt instruments: The fair value of the Company's other debt instruments (including capital leases, lease financing obligations and mortgage notes payable) were estimated in the same manner as the unsecured credit facility

above. Similarly, each of these instruments did not have interest rates which were materially different than current market conditions and therefore, the fair value of each instrument approximated the respective carrying values.

18. Quarterly Financial Information (unaudited)

The tables below reflect the selected quarterly information for the years ended December 31, 2018 and 2017 for QTS (in thousands except share data):

				Three Mon	nths	Ended	
	De	ecember 31,	Se	ptember 30,		June 30,	 March 31,
<u>2018</u>							
Revenues	\$	112,337	\$	112,213	\$	112,277	\$ 113,697
Operating income (loss)		12,876		(1,552)		1,882	5,455
Net income (loss)		6,402		(6,892)		(6,433)	(252)
Net income (loss) attributable to QTS Realty Trust, Inc		6,476		(5,282)		(5,431)	(223)
Net income (loss) attributable to common stockholders		(569)		(12,327)		(7,679)	(551)
Net income (loss) per share attributable to common							
shares - basic		(0.02)		(0.25)		(0.16)	(0.02)
Net income (loss) per share attributable to common							
shares - diluted		(0.02)		(0.25)		(0.16)	(0.02)
<u>2017</u>							
Revenues	\$	118,911	\$	113,767	\$	107,868	\$ 105,964
Operating income		7,553		12,833		10,826	10,915
Net income (loss)		(16,113)		7,394		4,608	5,568
Net income (loss) attributable to QTS Realty Trust, Inc		(14,142)		6,507		4,040	4,877
Net income (loss) attributable to common stockholders		(14,142)		6,507		4,040	4,877
Net income (loss) per share attributable to common							
shares - basic		(0.29)		0.13		0.08	0.10
Net income (loss) per share attributable to common		. ,					
shares - diluted		(0.29)		0.13		0.08	0.10

The table below reflects the selected quarterly information for the years ended December 31, 2018 and 2017 for the Operating Partnership (in thousands):

	Three Months Ended							
	De	ecember 31,	Se	ptember 30,		June 30,		March 31,
2018 Revenues Operating income (loss) Net income (loss) Net income (loss) attributable to common unitholders.	\$	112,337 12,876 6,402 (643)	\$	112,213 (1,552) (6,892) (13,937)	\$	112,277 1,882 (6,433) (8,681)	\$	113,697 5,455 (252) (580)
2017 Revenues Operating income Net income Net income (loss) attributable to common unitholders	\$	118,911 7,553 (16,113) (16,113)	\$	113,767 12,833 7,394 7,394	\$	107,868 10,826 4,608 4,608	\$	105,964 10,915 5,568 5,568

19. Subsequent Events

On February 22, 2019, QTS completed the formation of a joint venture with Alinda Capital Partners ("Alinda"), a premier infrastructure investment firm. QTS contributed a 118,000 square foot hyperscale data center in Manassas, VA to the venture in exchange for an equity interest in the joint venture. As this joint venture will be managed by a premier board of directors initially consisting of equal representation from QTS and Alinda, we expect the joint venture to be accounted for as an equity method investment. As of December 31, 2018, the Company classified certain assets, as well as liabilities associated with those assets, as held for sale pursuant to the contribution of those assets and liabilities to the joint venture. The asset value of \$71.8 million associated with the held for sale assets is included within the "Assets held for sale" line item of the consolidated balance sheets and primarily consists of construction in progress. The liability value of \$24.3 million associated with the held for sale liabilities is included within the "Liabilities held for sale" line item of the consolidated balance sheet and primarily consists of accounts payable and accrued liabilities associated with construction in progress assets.

In January 2019, the Company paid its regular quarterly cash dividends on its common stock, Series A Preferred Stock and Series B Preferred Stock. See the 'Liquidity and Capital Resources' section of Item 7 for additional details.

Subsequent to December 31, 2018, the Company authorized the following dividends:

- On February 22, 2019, the Company announced that its board of directors authorized payment of a regular quarterly cash dividend of \$0.44 per common share and per unit in the Operating Partnership, payable on April 4, 2019, to stockholders and unit holders of record as of the close of business on March 20, 2019.
- On February 22, 2019, the Company announced that its board of directors authorized payment of a regular quarterly cash dividend of approximately \$0.45 per share on its Series A Preferred Stock, payable on April 15, 2019, to holders of Series A Preferred Stock of record as of the close of business on March 31, 2019.
- On February 22, 2019, the Company announced that its board of directors authorized payment of a regular quarterly cash dividend of approximately \$1.63 per share on its Series B Preferred Stock, payable on April 15, 2019, to holders of Series B Preferred Stock of record as of the close of business on March 31, 2019.

QTS REALTY TRUST, INC. QUALITYTECH, LP SCHEDULE II – VALUATION AND QUALIFYING ACCOUNTS December 31, 2018

Year Ended December 31, (dollars in thousands)	_	alance at ginning of period	Charge to expenses	 dditions/ eductions)	 alance at end of period
Allowance for doubtful accounts 2018 2017 2016	\$	11,453 4,217 5,063	\$ (2,275) 7,375 1,752	\$ (5,414) (139) (2,598)	\$ 3,764 11,453 4,217
Valuation allowance for deferred tax assets 2018 2017 2016	\$	713 393 393	\$ 7,648 320 —	\$ _ _ _	\$ 8,361 713 393

QUALITYTECH, LP SCHEDULE III – REAL ESTATE INVESTMENTS QTS REALTY TRUST, INC. December 31, 2018

		Initial Costs	ts	Costs Capita	Costs Capitalized Subsequent to Acquisition	to Acquisition	Ū	Gross Carrying Amount	nount		
As of December 31, 2018 (dollars in thousands) Property Location	Land	Buildings and Improvements	l Construction s in Progress	Land	Buildings and Improvements	Construction in Progress	Land	Buildings and Improvements	Construction in Progress	Accumulated Depreciation and Amortization (1)	Date of Acquisition
Owned Properties											
Atlanta, Georgia (Atlanta-Metro)	\$ 12,647	\$ 35,473	- -	\$ 7,769	\$ 457,973	\$ 88,253	\$ 20,416	\$ 493,446	\$ 88,253	\$ (162,808)	10/3/2006
Irving, Texas		5.808	1	909'8	339,807	99,445	909.8	345,615	99,445	(40,650)	2/8/2013
Richmond, Virginia	2,000	11,200		180	241,898	67,932	2,180	253,098	67,932	(60,731)	3/20/2010
Chicago, Illinois			. 17,764	9,400	130,150	115,331	9,400	130,150	133,095	(10,302)	7/8/2014
Suwanee, Georgia (Atlanta-											
Suwanee)	1,395	29,802		2,126	136,496	3,188	3,521	166,298	3,188	(96,678)	9/1/2005
Piscataway, New Jersey	7,466	80,366	13,900		17,440	19,572	7,466	908'.26	33,472	(6,585)	6/6/2016
Santa Clara, California		15,838			82,710	7,600		98,548	7,600	(40,466)	11/1/2007
Sacramento, California	1,481	52,753			12,121	92	1,481	64,874	92	(11,522)	12/21/2012
Fort Worth, Texas	136	610	48,984	8,943	18,013	(5,269)	9,079	18,623	43,715	(1,195)	12/16/2016
Princeton, New Jersey	20,700	32,126			1,920	431	20,700	34,046	431	(3,972)	6/30/2014
Dulles, Virginia	3,154	29,583			42,852	3,852	3,154	72,435	3,852	(18,586)	10/6/2017
Ashburn, Virginia (2)			. 53,009	17,325	63,245	131,942	17,325	63,245	184,951	(1,704)	8/9/2017 & 10/23/2017
Phoenix, Arizona (2)			. 24,668			4,894			29,562	I	8/11/2017
Hillsboro, Oregon (2)			. 25,657			14,178			39,835	I	10/3/2017
Miami, Florida	1,777	6,955			24,080	06	1,777	31,035	06	(11,044)	3/6/2008
Lenexa, Kansas	400	3,100		36	735		436	3,835		(457)	6/3/2011
Manassas, Virginia (2)		1	24,626			20,568			45,194		3/2/2018
	\$ 51,156	\$ 303,614	\$ 208,608	\$ 54,385	\$ 1,569,440	\$ 572,099	\$ 105,541	\$ 1,873,054	\$ 780,707	(436,700)	
Leased Properties											
Leased Facilities acquired in 2015.		59,087	1		(37,471)	382		21,616	382	(18,586)	6/16/2015
Jersey City, New Jersey		1,985			19,745	8,952		21,730	8,952	(11,757)	11/1/2006
Overland Park, Kansas		l	1		851	22		851	22	(601)	
	-	\$ 61,072	\$	\$	\$ (16,875)	\$ 9,356	- - -	\$ 44,197	\$ 9,356	(30,944)	
	\$ 51,156	\$ 364,686	\$ 208,608	\$ 54,385	\$ 1,552,565	\$ 581,455	\$ 105,541	\$ 1,917,251	\$ 790,064	\$ (467,644)	

The aggregate gross cost of the Company's properties for federal income tax purposes was \$3.03 billion (unaudited) as of December 31, 2018.

⁽¹⁾ See Note 2 'Significant Accounting Policies' for information regarding asset lives on which depreciation and amortization are calculated.

(2) Represent land purchases. Land acquisition costs, as well as subsequent development costs, are included within construction in progress until development on the land has ended and the asset is ready for its intended use.

The following table reconciles the historical cost and accumulated depreciation for the years ended December 31, 2018, 2017 and 2016 (in thousands):

	Year Ended December 31,			
	2018	2017	2016	
Property				
Balance, beginning of period	\$ 2,357,322	\$ 1,964,857	\$ 1,583,153	
Disposals	(43,616)	(18,198)	(8,946)	
Additions (acquisitions and improvements)	499,150	410,663	390,650	
Balance, end of period.	\$ 2,812,856	\$ 2,357,322	\$ 1,964,857	
Accumulated depreciation				
Balance, beginning of period	\$ (394,823)	\$ (317,834)	\$ (239,936)	
Disposals	30,139	13,970	6,761	
Additions (depreciation and amortization expense)	(102,960)	(90,959)	(84,659)	
Balance, end of period.	\$ (467,644)	\$ (394,823)	\$ (317,834)	

List of Subsidiaries of QTS Realty Trust, Inc.

Subsidiary Name	State of Incorporation or Formation
2470 Satellite Boulevard, LLC	Delaware
Ashburn Acquisition Co, LLC.	Delaware
Bondurant Acquisition Co., LLC	Delaware
Broderick Acquisition Co., LLC.	Delaware
Carpathia Acquisition, LLC.	Delaware
Carpathia Hosting, LLC.	Delaware
Los Lunas Acquisition Co., LLC	Delaware
Manassas Acquisition Co., LLC	Delaware
National Acquisition Company, LLC.	Delaware
New Albany Acquisition Co., LLC.	Delaware
Papillion Acquisition Co., LLC.	Delaware
QAE Acquisition Company, LLC	Georgia
QTS Critical Facilities Management, LLC.	Delaware
QTS Finance Corporation	Delaware
QTS Investment Properties Ashburn II, LLC.	Delaware
QTS Investment Properties Carpathia, LLC.	Delaware
QTS Investment Properties Chicago, LLC.	Delaware
QTS Investment Properties Fort Worth, LLC	Delaware
QTS Investment Properties Hillsboro, LLC.	Delaware
QTS Investment Properties Manassas II, LLC.	Delaware
QTS Investment Properties Manassas, LLC.	Delaware
QTS Investment Properties Phoenix, LLC	Delaware
QTS Investment Properties Piscataway, LLC	Delaware
QTS Investment Properties Princeton, LLC.	Delaware
QTS JV I Holding II, LLC.	Delaware
QTS JV I Holding, LLC.	Delaware
QTS JV I TRS, LLC.	Delaware
QTS JV I, LLC	Delaware
Quality Investment Properties Gateway, LLC	Delaware
Quality Investment Properties Irving II, LLC	Delaware
Quality Investment Properties Irving, LLC	Delaware
Quality Investment Properties Lenexa, LLC	Delaware
Quality Investment Properties Metro, LLC	Delaware
Quality Investment Properties Miami, LLC	Delaware
Quality Investment Properties Richmond, LLC.	Delaware
Quality Investment Properties Sacramento, LLC	Delaware
Quality Investment Properties Santa Clara, LLC	Delaware
Quality Investment Properties, Suwanee, LLC	Delaware
Quality Technology Services - Manassas Facilities Management, LLC	Delaware
Quality Technology Services Ashburn II, LLC	Delaware
Quality Technology Services B.V.	Netherlands
Quality Technology Services Chicago II, LLC	Delaware
Quality Technology Services Fort Worth II, LLC	Delaware

	State of Incorporation or
<u>Subsidiary Name</u>	<u>Formation</u>
Quality Technology Services Holding, LLC	Delaware
Quality Technology Services Irving II, LLC	Delaware
Quality Technology Services Jersey City, LLC.	Delaware
Quality Technology Services Lenexa II, LLC	Delaware
Quality Technology Services Lenexa, LLC	Delaware
Quality Technology Services Metro II, LLC	Delaware
Quality Technology Services Miami II, LLC.	Delaware
Quality Technology Services Northeast, LLC	Delaware
Quality Technology Services Phoenix II, LLC	Delaware
Quality Technology Services Piscataway II, LLC.	Delaware
Quality Technology Services Princeton II, LLC	Delaware
Quality Technology Services Richmond II, LLC	Delaware
Quality Technology Services Sacramento II, LLC	Delaware
Quality Technology Services Santa Clara II, LLC.	Delaware
Quality Technology Services, LLC.	Delaware
Quality Technology Services, N.J. II, LLC	Delaware
Quality Technology Services, N.J., LLC	Delaware
Quality Technology Services, Suwanee II, LLC	Delaware
QualityTech, LP	Delaware
ServerVault, LLC	Delaware
SWO Logistics, LLC	Delaware
West Midtown Acquisition Company, LLC.	Delaware
Whale Ventures, LLC	Delaware

List of Subsidiaries of QualityTech, LP

	State of Incorporation or
Subsidiary Name	Formation Delevere
2470 Satellite Boulevard, LLC	Delaware
Ashburn Acquisition Co, LLC.	Delaware
Bondurant Acquisition Co., LLC	Delaware
Broderick Acquisition Co., LLC	Delaware
Carpathia Acquisition, LLC.	Delaware
Carpathia Hosting, LLC.	Delaware
Los Lunas Acquisition Co., LLC	Delaware
Manassas Acquisition Co., LLC	Delaware
National Acquisition Company, LLC	Delaware
New Albany Acquisition Co., LLC.	Delaware
Papillion Acquisition Co., LLC.	Delaware
QAE Acquisition Company, LLC	Georgia
QTS Critical Facilities Management, LLC.	Delaware
QTS Finance Corporation	Delaware
QTS Investment Properties Ashburn II, LLC.	Delaware
QTS Investment Properties Carpathia, LLC.	Delaware
QTS Investment Properties Chicago, LLC.	Delaware
QTS Investment Properties Fort Worth, LLC	Delaware
QTS Investment Properties Hillsboro, LLC.	Delaware
QTS Investment Properties Manassas II, LLC.	Delaware
QTS Investment Properties Manassas, LLC.	Delaware
QTS Investment Properties Phoenix, LLC	Delaware
QTS Investment Properties Piscataway, LLC	Delaware
QTS Investment Properties Princeton, LLC.	Delaware
QTS JV I Holding II, LLC.	Delaware
QTS JV I Holding, LLC.	Delaware
QTS JV I TRS, LLC.	Delaware
QTS JV I, LLC	Delaware
Quality Investment Properties Gateway, LLC	Delaware
Quality Investment Properties Irving II, LLC	Delaware
Quality Investment Properties Irving, LLC	Delaware
Quality Investment Properties Lenexa, LLC	Delaware
Quality Investment Properties Metro, LLC	Delaware
Quality Investment Properties Miami, LLC	Delaware
Quality Investment Properties Richmond, LLC.	Delaware
Quality Investment Properties Sacramento, LLC.	Delaware
Quality Investment Properties Santa Clara, LLC.	Delaware
Quality Investment Properties, Suwanee, LLC	Delaware
Quality Technology Services - Manassas Facilities Management, LLC	Delaware
Quality Technology Services Ashburn II, LLC	Delaware
Quality Technology Services B.V.	Netherlands
Quality Technology Services Chicago II, LLC	Delaware
Quality Technology Services Fort Worth II, LLC.	Delaware
Quality Technology Services Holding, LLC	Delaware
<u> </u>	Dominaro

	State of Incorporation or
Subsidiary Name	Formation
Quality Technology Services Irving II, LLC	Delaware
Quality Technology Services Jersey City, LLC.	Delaware
Quality Technology Services Lenexa II, LLC	Delaware
Quality Technology Services Lenexa, LLC	Delaware
Quality Technology Services Metro II, LLC	Delaware
Quality Technology Services Miami II, LLC.	Delaware
Quality Technology Services Northeast, LLC	Delaware
Quality Technology Services Phoenix II, LLC	Delaware
Quality Technology Services Piscataway II, LLC.	Delaware
Quality Technology Services Princeton II, LLC	Delaware
Quality Technology Services Richmond II, LLC	Delaware
Quality Technology Services Sacramento II, LLC	Delaware
Quality Technology Services Santa Clara II, LLC.	Delaware
Quality Technology Services, LLC.	Delaware
Quality Technology Services, N.J. II, LLC	Delaware
Quality Technology Services, N.J., LLC	Delaware
Quality Technology Services, Suwanee II, LLC	Delaware
ServerVault, LLC.	Delaware
SWO Logistics, LLC	Delaware
West Midtown Acquisition Company, LLC.	Delaware
Whale Ventures, LLC	Delaware

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the following Registration Statements:

- (1) Registration Statement (Form S-8 No. 333-191674) pertaining to the QTS Realty Trust, Inc. 2013 Equity Incentive Plan
- (2) Registration Statement (Form S-3 No. 333-199844) of QTS Realty Trust, Inc.
- (3) Registration Statement (Form S-8 No. 333-204020) pertaining to the QTS Realty Trust, Inc. 2013 Equity Incentive Plan
- (4) Registration Statement (Form S-8 No. 333-205040) pertaining to the 2017 Amended and Restated QTS Realty Trust, Inc. Employee Stock Purchase Plan
- (5) Registration Statement (Form S-3 No. 333-210425) of QTS Realty Trust, Inc.

of our reports dated February 25, 2019, with respect to the consolidated financial statements and schedules of QTS Realty Trust, Inc. and the effectiveness of internal control over financial reporting of QTS Realty Trust, Inc. included in this Annual Report (Form 10-K) of QTS Realty Trust, Inc. for the year ended December 31, 2018.

/s/ Ernst & Young LLP

Kansas City, Missouri February 25, 2019

Certification of Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Chad L. Williams, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of QTS Realty Trust, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2019

/s/ Chad L. Williams

Chad L. Williams

Chairman and Chief Executive Officer

Certification of Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Jeffrey H. Berson, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of QTS Realty Trust, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2019

/s/ Jeffrey H. Berson Jeffrey H. Berson Chief Financial Officer

Certification of Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Chad L. Williams, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of QualityTech, LP;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles:
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2019

/s/ Chad L. Williams

Chad L. Williams

Chairman and Chief Executive Officer

Certification of Chief Financial Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002

I, Jeffrey H. Berson, certify that:

- 1. I have reviewed this Annual Report on Form 10-K of QualityTech, LP;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 25, 2019

/s/ Jeffrey H. Berson Jeffrey H. Berson Chief Financial Officer

Certification Pursuant To 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

In connection with the Annual Report of QTS Realty Trust, Inc. (the "Company") on Form 10-K for the year ended December 31, 2018 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Chad L. Williams, Chairman and Chief Executive Officer of the Company, and I, Jeffrey H. Berson, Chief Financial Officer of the Company, certify, to our knowledge, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 25, 2019

/s/ Chad L. Williams

Chad L. Williams Chairman and Chief Executive Officer

/s/ Jeffrey H. Berson

Jeffrey H. Berson Chief Financial Officer

Certification Pursuant To 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002

In connection with the Annual Report of QualityTech, LP (the "Company") on Form 10-K for the year ended December 31, 2018 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Chad L. Williams, Chairman and Chief Executive Officer of the Company, and I, Jeffrey H. Berson, Chief Financial Officer of the Company, certify, to our knowledge, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 25, 2019

/s/ Chad L. Williams

Chad L. Williams
Chairman and Chief Executive Officer

/s/ Jeffrey H. Berson

Jeffrey H. Berson Chief Financial Officer

Executive Leaders

Chad L. Williams

Chairman, President & CEO

Jeff Berson

Chief Financial Officer

Jon Greaves

Chief Technology Officer

David Robey

Chief Operating Officer

Steve Bloom

Chief People Officer

Shirley Goza

General Counsel, VP & Secretary

Tag Greason

Chief Hyperscale Officer

Clint Heiden

Chief Revenue Officer



QTS Executive Team

Board of Directors

Chad L. Williams

Chairman & CEO

Philip P. Trahanas

Lead Director Independent Investor

Catherine R. Kinney

Formerly with NYSE

John W. Barter

Retired EVP Allied Signal (now Honeywell)

Mazen Rawashdeh

Chief Infrastructure & Architecture Officer eBay

Peter A. Marino

Private Consultant, Government & Industry on Defense and Intelligence

Scott D. Miller

CEO SSA & Company and G100 Managing General Partner of MSP, LLC

Stephen E. Westhead

CFO and Lead Investor U.S. Trailer

William O. Grabe

Advisory Director, General Atlantic LLC

Wayne M. Rehberger

Formerly with Engility Holdings, Inc., SVP & Chief Financial Officer

Independent Auditors

Ernst & Young LLP Kansas City, MO

QTS Investor Relations

12851 Foster St. Overland Park, KS 66213 ir@qtsdatacenters.com 913.312.2475

Annual Meeting of Stockholders

May 9, 2019 at 8:00 am CT at 12851 Foster St. Overland Park, KS 66213

Stock Listing

QTS Realty Trust, Inc. is traded on the New York Stock Exchange under the symbol "QTS."

Data Center Locations

QTS Ashburn-Broderick

Ashburn, VA

QTS Ashburn-Lockridge

Ashburn, VA

QTS Ashburn-Moran

Dulles, VA

QTS Jersey City

Jersey City, NJ

QTS Manassas

Manassas, VA

QTS Piscataway

Piscataway, NJ

QTS Princeton

East Windsor, NJ

QTS Richmond

Sandston, VA

QTS Chicago

Chicago, IL

QTS Fort Worth

Fort Worth, TX

QTS Irving

Irving, TX

QTS Overland Park

Overland Park, KS

QTS Phoenix

Phoenix, AZ

QTS Sacramento

Sacramento, CA

QTS San Jose

San Jose, CA

QTS Santa Clara

Santa Clara, CA

OUTHEA

QTS Atlanta-Metro

Atlanta, GA

QTS Atlanta-Suwanee

Suwanee, GA

QTS Miami

Miami, FL

QTS Toronto ERNATIONAL West Toronto.

Ontario Canada

QTS Amsterdam

Amsterdam, The Netherlands

QTS London

London, United Kingdom

QTS Hong Kong Hong Kong, China

Corporate Offices

Corporate Headquarters

J Williams Technology Centre 12851 Foster Street Overland Park, KS 66213 913.814.9988

Operations Headquarters

OTS Suwanee 300 Satellite Blvd, NW Suwanee, GA 30024

Leadership Training Facility

QTS Duluth Office 2470 Satellite Blvd, NW Duluth, GA 30096

Product Solutions / Federal Headquarters

QTS Ashburn Office 22271 Broderick Drive, Sterling, VA 20166

*Mega Data Center

INTEGRITY,
CHARACTER, TRUST



ACTION, INNOVATION, ACCOUNTABILITY

TEAM ORIENTED

RESPECT OUR
CUSTOMERS

SUPPORT OF FAMILY, FAITH & COMMUNITY VOLUNTEERISM

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