

QUARTERHILL INC.

2021 Annual Report





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Forward-looking Information

Quarterhill's 2021 Annual Report Letter to Shareholders contains forward-looking statements and forward-looking information within the meaning of applicable United States and Canadian securities laws. Forward-looking statements and forward-looking information are based on estimates and assumptions made by Quarterhill in light of its experience and its perception of historical trends, current conditions, expected future developments and the expected effects of new business strategies, as well as other factors that Quarterhill believes are appropriate in the circumstances. Many factors could cause Quarterhill's actual performance or achievements to differ materially from those expressed or implied by the forward-looking statements or forward-looking information. Such factors include, without limitation, the risks described in Quarterhill's March 20, 2022 annual information form for the year ended December 31, 2021 (the "AIF"). Copies of the AIF may be obtained at www.sedar.com. Quarterhill recommends that readers review and consider all of these risk factors and notes that readers should not place undue reliance on any of Quarterhill's forward-looking statements. Quarterhill has no intention, and undertakes no obligation, to update or revise any forward-looking statements or forward-looking statements. Quarterhill has no intention, and undertakes no obligation, to update or revise any forward-looking statements or forward-looking information, whether as a result of new information, future events or otherwise, except as required by law.

Dear Shareholder:

2021 was characterized as a year of M&A with the deployment of \$160 million in capital to acquire three businesses - Electronic Transaction Consultants ("ETC"), SensorLine and VDS - in the Intelligent Transportation Systems ("ITS") industry. These transactions have brought scale to Quarterhill's ITS operations, established our leadership position in the tolling market, expanded our geographic footprint, created compelling synergy opportunities and delivered a second platform in ITS from which we can pursue tuck-in M&A. Our strong year-over-year growth in the ITS segment in the fourth quarter reflected the first full period of financial results from all of the acquired businesses and demonstrates the potential of our ITS operations.

Overall, 2021 was a solid year for the ITS segment. ETC completed some of the largest contracts in its history in 2021, resulting in a record year for order bookings, and the momentum has carried over into 2022 with two new deals announced already this year. Similarly, IRD also had a record year for new order bookings and finished 2021 with a record level of order backlog.

On the licensing side of the business, WiLAN had some licensing and patent acquisition successes in 2021 while contending with challenges posed by the COVID-19 pandemic. Despite these challenges, WiLAN completed a number of licensing deals with LG, Motorola and Marvell, among others, made several patent acquisitions in the semiconductor field and was Adjusted EBITDA positive for the year.

As part of Quarterhill's transition towards ITS, in December 2021, we announced the commencement of a strategic review process for WiLAN. A special committee of the Board of Directors has been formed to oversee the process and Stout has been selected as the financial advisor to run the strategic review. Stout is a is a global investment bank and advisory firm with IP transaction experience that has served companies in more than 80 countries over its 30-year history. We will report on further material developments with the strategic review as they occur.

Looking forward into 2022 and beyond, we believe there has never been a better time to be in ITS. The industry has multiple market tailwinds, including the need for new and upgraded infrastructure, the need for new sources of infrastructure funding from userdriven technology-based solutions like tolling and enforcement, the US federal government's infrastructure bill, which will see it allocate billions for new infrastructure projects in the coming years, and finally, policy initiatives related to sustainability objectives, traffic management and enhanced safety are driving governments at all levels to look at tech-based infrastructure solutions.

These tailwinds are propelling the need for ITS and user-funded infrastructure and are having the effect of increasing the industry outlook for growth into double-digit percentages.

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Historically, ITS grew at a rate in the neighbourhood of 5% per year, but over the next five years, the industry is expected to grow at a CAGR of approximately 15% per year.

Against this promising backdrop, our key priorities in 2022 are: 1) drive organic growth with execution on new project implementations and sales pipeline conversion, 2) execute on M&A opportunities, and 3) further integrate our ITS businesses.

Quarterhill is well positioned to execute on this plan and to capitalize on this industry growth. We have two strong platform businesses in ETC and IRD. Both have talented teams and a strong reputation in their respective fields, which for ETC is tolling, and for IRD is commercial vehicle operations, or enforcement. Both are coming off record years in terms of new order bookings, have growing backlogs and sales pipelines, and both have internally generated pipelines for M&A to go with external deal flow sources.

As our business continues its evolution, we will look to add leadership and expertise to help us execute on our growth plan and capitalize on the exciting opportunity in ITS. Along these lines, at this year's Annual Meeting, we are looking to add two new board members, Rusty Lewis and Pamela Steer.

Rusty is a veteran of the ITS industry and played an instrumental role in creating and leading one of the industry's leading tolling companies. Pamela has more than 20 years of experience in accounting and finance from a variety of public and private corporations and professional services providers, including those in the transaction processing space. We look forward to their contributions as we pursue both organic and acquisition-related growth opportunities for the business.

We thank you for your continued support and we look forward to reporting to you on our progress throughout 2022.

Sincerely,

/s/ Bret Kidd

/s/ John Gillberry

Bret Kidd President & CEO John Gillberry Chair of the Board

QUARTERHILL

Quarterhill Inc.

Management's Discussion and Analysis For the three months and year ended December 31, 2021 and 2020 March 20, 2022



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INTRODUCTION

This Management's Discussion and Analysis of Quarterhill Inc. (this "MD&A") is dated March 20, 2022. References in this MD&A to "Quarterhill", "the Company", "we", "us" and "our" refer to Quarterhill Inc. and its consolidated subsidiaries during the periods presented, unless the context requires otherwise. References to "Common Shares" in this MD&A refer to common shares in the capital of Quarterhill. References to "Convertible Debentures" in this MD&A refer to Quarterhill's 6.0% Convertible Unsecured Subordinated Debentures due October 30, 2026.

The Common Shares and Convertible Debentures are listed under the symbols "QTRH" and "QTRH.DB" respectively on the Toronto Stock Exchange (the "TSX") and the Common Shares are listed on the United States OTCQX Best Market (the "OTCQX") under the symbol "QTRHF".

Quarterhill is a growth-oriented Canadian company operating in the intelligent transportation system ("ITS") and intellectual property licensing industries. We are a global leader in ITS that acquires and manages attractive technology companies in the intelligent transportation systems industry and its adjacent markets.

We seek out acquisition opportunities in the ITS industry that provide a foundation for growth and that have reasonable valuations, recurring revenues, predictable cashflows and gross profit, intimate customer relationships and dedicated management teams among other considerations. In appropriate circumstances, we may also divest certain assets if favourable conditions for such a divestiture are presented.

This MD&A provides information for the three months and year ended December 31, 2021 and up to and including March 20, 2022. This MD&A should be read in conjunction with Quarterhill's consolidated financial statements ("financial statements") and the notes thereto for the year ended December 31, 2021, which have been prepared in accordance with International Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board ("IASB").

Unless otherwise indicated, all financial information in this MD&A is reported in thousands of Canadian dollars, except for Common Share and earnings per share data which is reported in number of Common Shares and Canadian dollars respectively. The tables and charts included in this document form an integral part of this MD&A.

This MD&A has been prepared with reference to National Instrument 51-102 - Continuous Disclosure Obligations of the Canadian Securities Administrators. Additional information filed by us with the Canadian Securities Administrators, including quarterly reports, annual reports and our Annual Information Form for the years ended December 31, 2021 and 2020 (our "AIF"), is available online at www.sedar.com and also on our website at www.Quarterhill.com.

Quarterhill and our operating subsidiaries operate in ever-changing business and competitive economic environments that expose us to a number of risks and uncertainties, many of which are discussed under the heading "Risks and Uncertainties" in this MD&A and/or under the heading "Risk Factors" in each of our AIF and the October 22, 2021 supplement to our October 19, 2021 short form base shelf prospectus (the "Prospectus Supplement"). A copy of the Prospectus Supplement is available online at <u>www.sedar.com</u>.

Our management is responsible for establishing appropriate information systems, procedures and controls to ensure that all financial information disclosed externally, including in this MD&A, and used internally by us, is complete and reliable. These procedures include the review and approval of our financial statements and associated information, including this MD&A, first by our management's Disclosure Committee, then by the Audit Committee of our Board of Directors (the "Board") and, finally, by our Board as a whole.

FISCAL YEAR 2021 BUSINESS HIGHLIGHTS

Global ITS Leader

After divesting our Enterprise Software segment in May 2020, we have pivoted the Company further into the ITS industry by completing three strategic acquisitions this year for approximately \$160 million. These acquisitions, which include the Company's largest acquisition in its history for approximately \$150 million, will significantly diversify our financial results, scale our ITS business and expand our geographic and product reach. We believe we are well positioned to capitalize from global government infrastructure spending and further attract strategic M&A opportunities as we continue to accelerate our transition in ITS. In December 2021, we announced our intention to seek strategic alternatives to divest our Licensing segment to complete the Company's transformation into a Global ITS leader and accelerate our growth and evolution in the industry.

Capital Strategy

We have deployed approximately \$160 million of capital this year and achieved approximately 40% of our \$400 million capital deployment target within the first year of our five-year capital deployment timeline. Furthermore, we have raised approximately \$140 million in debt and equity capital this year to finance current and future acquisitions.

In September 2021, the Company entered into a credit agreement to receive senior secured credit facilities consisting of a revolving credit facility and term credit facility of approximately \$82 million to generally finance the acquisition of Electronic Transaction Consultants, LLC ("ETC") but to also establish an accordion facility to finance future acquisitions. In October 2021, the Company filed and obtained final approval for a short form base shelf prospectus for an aggregate offering amount of up to \$200 million over twenty-five months and subsequently entered into an over-subscribed \$57.5 million bought-deal financing of unsecured subordinated convertible debentures with a syndicate of underwriters pursuant to the Prospectus Supplement. The gross proceeds of this offering includes the full exercise of the \$7.5 million over-allotment option by the underwriters. The net proceeds will be used to support acquisitive growth and to provide additional working capital (please refer to the *Supplementary Financial Measures* section of this MD&A) to support the operations of our business units.

In August 2020, the Company received approval from the TSX on its notice of intention to make a normal course issuer bid to purchase for cancellation up to 11,303,777 of its outstanding Common Shares (the "NCIB"). During the year, the Company repurchased for cancellation 841,300 Common Shares at an average purchase price of \$2.45 per share totaling \$2,065 under the NCIB. Since the commencement of the NCIB in August 2020, the Company has repurchased a total of 3,047,936 Common Shares for \$6,363. The NCIB expired on August 9, 2021 and we currently have no plans for any new issuer bids.

New Executive Appointments

On December 15, 2021, the Company announced that Bret Kidd, formerly the CEO of ETC, was promoted to CEO of Quarterhill and appointed to the Board, replacing Paul Hill. Bret joined ETC as CEO in 2019, with 25 years of experience leading technology services businesses in the travel, transportation and public sectors. This change was made in conjunction with accelerating the Company's transition into a growth-oriented business focused on the ITS industry. Mr. Kidd will continue to drive Quarterhill's growth in the ITS space via both organic and inorganic means.

On January 31, 2022, John Rim, CFO, announced his departure from the Company to pursue other interests. Stephen Thompson, Senior Vice President of Finance of Wi-LAN Inc. ("WiLAN"), a Quarterhill subsidiary, has been appointed interim CFO while we undertake a CFO search. Mr. Thompson previously served as interim CFO of Quarterhill from April 2017 to December 2017. In addition, Mr. Thompson has public company experience at three prior companies, holds a Bachelor of Commerce (honours) degree from Queens' University and is a Chartered Professional Accountant, Chartered Accountant (Ontario) as well as a Certified Public Accountant (Illinois, USA).

Business Performance and Future Business Developments

Our ITS segment had another successful quarter and concluded the year with four straight quarters of revenue growth. Our ITS segment's revenue for the three months and year ended December 31, 2021 were \$46,453 and \$99,973 compared to \$17,618 and \$66,266 in the respective comparative prior year periods.

During the quarter and subsequent to year end, our ITS segment, through our wholly owned subsidiaries, announced that they have won four new long-term customer contracts worth approximately \$160 million in lifetime contract value to provide a variety of ITS products, solutions and services to several US government agencies. The initial term of these contracts currently range from two to nine years with renewal options to extend services.

Our Licensing segment's revenue for the three months and year ended December 31, 2021 was \$4,708 and \$25,722 compared to \$474 and \$78,260 in the respective comparative prior year periods. In December 2021, our Licensing business entered into a new licensing agreement with Marvell Technology Inc. ("Marvell") and Motorola Mobility Inc. for patents that relate to memory interface technologies and wireless technology, respectively. On February 4, 2022, WiLAN announced it had received a decision from the United States Court of Appeal for the Federal Circuit (the "CAFC") in the appeal before the CAFC of WiLAN's United States patent infringement litigation with Apple Inc. ("Apple") in the United States District Court of the Southern District of California (the "District Court"). WiLAN announced that in its decision, the CAFC agreed with WiLAN's claim construction arguments relating to the patents involved in the litigation, agreed with WiLAN's arguments relating to infringement by certain Apple products of these patents and agreed with WiLAN's arguments to reverse the District Court's partial summary judgment of non-infringement with respect to certain Apple products containing certain Intel Corp. wireless chips, thereby making certain additional Intel-based Apple products available for inclusion in a final damages award. WiLAN further announced that the CAFC ruled against WiLAN with respect to certain assumptions made by WiLAN's damages expert in calculating the damages amount presented to the jury in the District Court damages trial and, as a result, remanded the case back to the District Court for another trial focusing on the amount of damages Apple will be required to pay.

Please refer to the Segmented Results section of this MD&A for further details of the financial performance of our ITS and Licensing segments for the year ended December 31, 2021.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

This MD&A contains forward-looking statements and forward-looking information within the meaning of Canadian securities laws, including such statements relating to:

- assumptions and expectations described in our critical accounting policies and estimates;
- our expectation regarding the adoption and impact of certain accounting pronouncements;
- our expectation regarding the growth rates of our subsidiaries' businesses;
- our estimates regarding our effective tax rate;
- our expectations regarding our ability to acquire additional businesses to further our growth; and
- our expectations with respect to the sufficiency of our financial resources.

The words "expect", "anticipate", "estimate", "may", "will", "should", "would", "intend", "believe", "plan", "continue", "project", "could", the negatives of these words or other variations on these words, comparable terms and similar expressions are intended to identify forward-looking statements and forward-looking information. Forward-looking statements and forward-looking information are based on estimates and assumptions made by us in light of our experience and our perception of historical trends, current conditions and expected future developments, as well as other factors that we believe are appropriate in the circumstances.

We provide forward-looking statements and forward-looking information to assist external stakeholders in understanding our management's expectations and plans relating to the future as of the date of this MD&A and such statements and information may not be appropriate for any other purposes. The forward-looking statements and forward-looking information in this MD&A are made as of the date of this MD&A only. We have no intention and undertake no obligation to update or revise any forward-looking statements or forward-looking information, whether as a result of new information, future events or otherwise, except as required by law.

NON-IFRS FINANCIAL MEASURES AND NON-IFRS RATIOS

Non-IFRS Financial Measures and Non-IFRS Ratios

Quarterhill uses both IFRS and certain non-IFRS financial measures to assess performance. Non-IFRS financial measures are financial measures disclosed by a company that (a) depict historical or expected future financial

performance, financial position or cash flow of a company, (b) with respect to their composition, exclude amounts that are included in, or include amounts that are excluded from the composition of the most directly comparable financial measure disclosed in the primary financial statements of the company, (c) are not disclosed in the financial statements of the company and (d) are not a ratio, fraction, percentage or similar representation. Non-IFRS ratios are financial measures disclosed by a company that are in the form of a ratio, fraction, percentage or similar representation that has a non-IFRS financial measure as one or more of its components, and that are not disclosed in the financial statements of the Company.

These non-IFRS financial measures and non-IFRS ratios are not standardized financial measures under IFRS, and, therefore, are unlikely to be comparable to similar financial measures presented by other companies. Management believes these non-IFRS financial measures and non-IFRS ratios provide transparent and useful supplemental information to help investors evaluate our financial performance, financial condition, and liquidity using the same measures as management. These non-IFRS financial measures and non-IFRS ratios should not be considered as a substitute for, or superior to, measures of financial performance prepared in accordance with IFRS.

Adjusted EBITDA - Non-IFRS Financial Measures

In this MD&A, we use the non-IFRS financial measure "Adjusted EBITDA" to mean net (loss) income adjusted for (i) income taxes, (ii) finance expense or income; (iii) amortization and impairment of intangibles; (iv) other charges and other on-time items; (v) depreciation of right-of-use assets and property, plant and equipment; (vi) stock-based compensation; (vii) foreign exchange (gain) loss; and (viii) other income which includes equity in earnings from joint ventures, and (ix) dividends received from joint ventures. Adjusted EBITDA is used by our management to assess our normalized cash generated on a consolidated basis and in our operating segments. Adjusted EBITDA is also a performance measure that may be used by investors to analyze the cash generated by Quarterhill and our operating segments. Adjusted EBITDA should not be interpreted as an alternative to net loss and cash flows from operations as determined in accordance with IFRS or as a measure of liquidity. The most directly comparable IFRS financial measure is Net (loss) income. See the Reconciliation of Net (Loss) Income to Adjusted EBITDA within the Overall Performance section of this MD&A.

Adjusted EBITDA per share – Non-IFRS ratio

Adjusted EBITDA per share is calculated as Adjusted EBITDA divided by the basic weighted average of common shares. Adjusted EBITDA per share is used by our management and investors to analyze cash generated by Quarterhill on a per share basis. The most comparable IFRS measure is earnings per share.

Supplementary Financial Measures

Supplementary financial measures are financial measures disclosed by a company that (a) are, or are intended to be, disclosed on a periodic basis to depict the historical or expected future financial performance, financial position or cash flow of a company (b) are not disclosed in the financial statements of the company, (c) are not non-IFRS financial measures, and (d) are not non-IFRS ratios.

Key supplementary measures disclosed in this MD&A are as follows:

Gross margin %

Calculated as gross profit as a percentage of revenue.

Working capital

Calculated as total current assets minus total current liabilities.

DESCRIPTION OF OUR BUSINESS

Quarterhill is a disciplined acquirer and manager of established ITS companies operating alongside our existing licensing business. Our goal is to pursue an investment strategy that capitalizes on attractive market trends in the ITS industry and its adjacent markets. Additionally, in appropriate circumstances, we may also divest certain assets if favourable conditions for such a divestiture are presented.

Strategy

We are focusing our business on building a consistently profitable company through the acquisition, management and growth of companies in the ITS industry and its adjacent markets, with an emphasis on seeking acquisition opportunities in the ITS industry that provide a foundation for growth and that have reasonable valuations, recurring revenues, predictable cashflows and gross profit, intimate customer relationships and dedicated management teams among other considerations.

We believe that if we increase the share of our revenue derived from recurring sources we will also increase the predictability of our revenues and cash flows. This will allow us to better scale our operations to ensure we meet our strategic mandate of operating profitably regardless of the prevailing economic market conditions as we grow both organically and through acquisitions. In appropriate circumstances, we may also divest certain assets if favourable conditions for such a divestiture are presented.

Our existing businesses are fully described in more detail in our AIF. As a result of the disposition of our former VIZIYA Corp. subsidiary together with its related companies (collectively, "VIZIYA") in the second quarter of 2020, which was the only investment in our former Enterprise Software business segment, we now operate in two business segments as we currently review our operating results, assess our performance, make decisions about resources and generate discrete financial information for each of these segments. We have called these segments ITS and Licensing.

Intelligent Transportation Systems Segment

Our businesses are focused on enhancing safety, mobility, efficiency and environment performance across road and rail transportation infrastructure by providing intelligent transportation systems, products, solutions and services. Based on market research, we believe the global ITS industry is expected to exceed US\$90 billion by 2025, influenced by major driving factors such as infrastructure spending, public safety, traffic congestion, smart city development and environmental impact. We believe that we are well positioned to capitalize on these trends.

Our businesses are leading providers of essential ITS products, solutions and services with more than 60 years of combined experience in areas such as commercial vehicle enforcement and tolling. Our customers include government transportation and tolling agencies, traffic engineering operators and industrial, mining and transportation service companies worldwide.

We have predictable and recurring revenue streams derived from selling ITS systems, products and solutions through long-term customer relationships and renewable service contracts. Our businesses offer a portfolio of integrated hardware and software to detect, measure and analyze a variety of transportation metrics which produces a valuable source of analytics and telematics for users. With a variety of product and service offerings throughout our operations in North America, Europe and Latin America, we believe there is an abundance of opportunity to create scale and efficiencies.

Licensing Segment

Our Licensing segment focuses on technology licensing as its principal business activity. We have a wholly owned subsidiary, WiLAN, a leading patent licensing company, based in Ottawa, Canada with offices in California and Texas. WiLAN has developed and patented inventions that have proven of great value to third-parties and has a history of acquiring additional patents that it believes hold great value from other inventors.

Both directly and through its wholly owned subsidiaries, WiLAN develops, acquires and commercializes innovative patented technologies that it believes hold value and also works with third party partners to monetize such patents in various ways which often involve sharing revenues and the financial risk associated with licensing these patents with third party partners. From time to time, WiLAN also sells selected patents as an alternative means of monetization.

Current WiLAN patent portfolios include patents relating to memory interface technologies, semiconductor manufacturing and packaging technologies, automotive applications, computer gaming, intelligent personal assistant technologies, enhanced image processing, streaming video technologies, non-volatile Flash memory, DRAM and other memory technologies as well as semiconductor analog circuitry technologies. WiLAN's license agreements generally grant rights to patents that are relevant to a licensee's products and services as well as granting releases for past sales of relevant products and services. Related license consideration

payments may be one-time lump-sum payments, a series of set payments based on fixed-prices made over a specified period or running royalties based on a price per-unit and/or a percentage of product sales or service revenues reported by licensees. The consideration for a license may vary significantly with different licensees because there are many factors that may make different rates and other terms appropriate. Although WiLAN prefers to negotiate license agreements without litigation, to ensure it receives fair consideration for the use of its patented technologies, WiLAN may, in appropriate circumstances, rely on litigation to enforce its patent rights against appropriate infringers with the ultimate goal of signing license agreements.

WiLAN's proven track record, business and technical expertise, as well as its strong reputation in the intellectual property licensing industry has allowed it to continue to be successful. WiLAN continues to access valuable patent portfolios through strategic partnerships with some of the world's largest companies seeking to monetize and protect their patents.

Strategic Review of WiLAN

The Company is currently in the preliminary stages of conducting a strategic review of WiLAN and have hired Stout as its financial advisor. Stout's IP industry expertise includes structuring numerous IP transactions between technology and licensing companies such as WiLAN as well as the strategic review of licensing programs and large patent portfolio transactions for leading technology companies. Strategic alternatives to be considered may include changes to the corporate structure of WiLAN, the acquisition or disposition of assets, a going private transaction, joint ventures, the sale of WiLAN and alternative operating models, among other potential alternatives. There can be no assurance that this strategic review process will result in the completion of any transaction or other alternative. A special committee of the Board, working closely with management, will oversee this strategic review of WiLAN over coming months.

BUSINESS COMBINATIONS

We remain focused on building robust cash flows and controlling expenses throughout all our businesses to maintain a healthy and sustainable balance sheet capable of supporting both our organic and acquisitive growth strategies. With a strong balance sheet, the securitization of funds through debt financing and issuing convertible debentures along with the contribution of our business units, we are well positioned to execute our M&A growth strategy and we are actively pursuing targets in the ITS industry that are synergistic and accretive to Quarterhill.

On January 5, 2021, we acquired all of the issued and outstanding shares of Sensor Line – Gesellschaft für Optoelektronische Sensoren mbH ("Sensor Line"), a German ITS provider of fiber optic traffic sensors for road and rail markets for cash consideration of \$5,933 (€3,800). Sensor Line has been integrated into IRD.

On April 28, 2021, we acquired all of the issued and outstanding shares of VDS Verkehrstechnik GmbH ("VDS"), a German ITS provider of high precision traffic monitoring devices for cash consideration of \$2,780 (€1,837). VDS has been integrated into IRD.

On September 1, 2021, we completed the acquisition of ETC by acquiring all of the issued and outstanding shares of its parent holding companies for cash consideration of \$151,313 (US\$120,023). ETC is a leader in providing tolling and mobility systems to tolling authorities across the United States. The purchase price and acquisition costs were financed by the Company's cash reserves and by newly established syndicated credit facilities.

The ETC acquisition marks our third acquisition in 2021 with an aggregate deal value of approximately \$160 million representing approximately 40% of our current five-year \$400 million capital deployment target. Please refer to Note 5 - Business Combinations of the notes to the financial statements for more information on the acquisitions of Sensor Line, VDS and ETC.

In May 2020, we completed the sale of VIZIYA for cash proceeds of \$49,400 to Prometheus Group, based in Raleigh, North Carolina. Originally acquired by Quarterhill in May 2017, VIZIYA was a software and services provider that helped companies optimize their asset performance and uptime. The sale of VIZIYA served to further strengthen our balance sheet providing capital to fund our growth and return some capital to shareholders. The sale of VIZIYA delivered a strong internal rate of return on our initial investment in VIZIYA.

OVERALL PERFORMANCE

Consolidated Statements of (Loss) Income

	Three months ended December 31,					Year ended December 31,				
		2021		2020		2021		2020		
Revenues										
Licensing	\$	4,708	\$	474	\$	25,722	\$	78,260		
Intelligent Transportation Systems		46,453		17,618		99,973		66,266		
		51,161		18,092		125,695		144,526		
Direct cost of revenues										
Licensing		5,768		5,338		21,809		46,205		
Intelligent Transportation Systems		33,318		11,091		66,451		39,463		
		39,086		16,429		88,260		85,668		
Gross profit		12,075		1,663		37,435		58,858		
Operating expenses										
Depreciation of right-of-use assets		567		241		1,568		979		
Depreciation of property, plant and equipment		771		248		1,583		969		
Amortization of intangible assets		6,234		4,539		20,228		18,855		
Selling, general and administrative expenses		11,097		8,323		33,339		26,868		
Research and development expenses		671		468		2,372		2,282		
Impairment losses on intangible assets		_		_		_		295		
Other charges		2,085		355		6,133		1,227		
		21,425		14,174		65,223		51,475		
Results from operations		(9,350)		(12,511)		(27,788)		7,383		
Finance income		(54)		(45)		(164)		(573)		
Finance expense		1,804		92		2,328		459		
Foreign exchange (gain) loss		(561)		425		(1,216)		(88)		
Other income		(160)		(488)		(2,007)		(1,680)		
(Loss) income before taxes		(10,379)		(12,495)		(26,729)		9,265		
Current income tax expense		262		368		1,306		2,037		
Deferred income tax (recovery) expense		(1,124)		(2,662)		(5,852)		2,800		
Income tax (recovery) expense		(862)		(2,294)		(4,546)		4,837		
Net (loss) income from continuing operations		(9,517)		(10,201)		(22,183)		4,428		
Net income from discontinued operations		_		_		_		14,255		
Net (loss) income	\$	(9,517)	\$	(10,201)	\$	(22,183)	\$	18,683		
(Loss) income per share										
From continuing operations	\$	(0.08)	\$	(0.09)	\$	(0.19)	\$	0.04		
From discontinued operations		_		_		_		0.12		
(Loss) income per share - Basic	\$	(0.08)	\$	(0.09)	\$	(0.19)	\$	0.16		
From continuing operations		(0.08)		(0.09)		(0.19)		0.04		
From discontinued operations		(0.00)		(0.05)				0.12		
(Loss) income per share - Diluted	\$	(0.08)	\$	(0.09)	\$	(0.19)	\$	0.16		
				,		100.001				

The components of our revenue are as noted below:

Transportation	ITS revenues include revenues earned on contracted projects, generally recognized on a percentage of completion basis, service and maintenance contracts, hardware and software system implementations and proprietary and OEM products sales.
	Licensing revenues includes all revenues associated with technology licenses, perpetual software licenses and other revenues characterized as one-time licenses.

Consolidated revenues for the three months and year ended December 31, 2021 were \$51,161 and \$125,695 compared to \$18,092 and \$144,526 in the comparative prior year periods. The primary reason for the decrease in consolidated revenue was due to the size and timing of completion of licensing agreements in the respective periods. Licensing revenues for the three months and year ended December 31, 2021 were \$4,708 and \$25,722, compared to \$474 and \$78,260 in the comparative prior year periods. Licensing revenues are generally one-time in nature which can result in significant fluctuations in revenue, gross profit and Adjusted EBITDA when the volume or dollar value of licenses changes from one period to the next. However, for the three months and year ended December 31, 2021 our ITS revenues were \$46,453 and \$99,973, compared to \$17,618 and \$66,266 in the comparative prior year periods as a result of the expansion of our ITS segment with the addition of Sensor Line, VDS and ETC.

Gross profit, calculated as revenues less direct cost of revenues for the three months and year ended December 31, 2021 were \$12,075 and \$37,435, a gross margin percentage of 24% and 30%, compared to \$1,663 and \$58,858 or 9% and 41%, for the comparative prior year periods. For the three months and year ended December 31, 2021, our ITS segment generated \$13,135 and \$33,522 in gross profit compared to \$6,527 and \$26,803 in the comparative prior year periods. The increase in the three months and year ended December 31, 2021 is primarily due to the expansion of our ITS segment with the acquisitions of Sensor Line, VDS and ETC this year as well as the subsiding of effects from project delays experienced in previous quarters and periods. For the three months and year ended December 31, 2021, our Licensing segment generated \$(1,060) and \$3,913 in gross profit compared to \$(4,864) and \$32,055 in the comparative prior year periods. The decrease in gross profit for the year ended December 31, 2021 compared to the prior year period is due to closing of a number of larger licensing contracts in the prior year period.

Direct cost of revenues includes: (i) for our ITS segment, costs related to inventory solutions and all costs of delivering on a project or service including employee costs, inventory consumption costs, subcontractor costs and costs related to any maintenance and warranty work completed; and (ii) for our Licensing segment, patent licensing expenses which include royalty obligations, cost of patents if purchased from third parties, employee costs, costs incurred in conducting license negotiations, contingent partner and legal fee payments and other licensing and litigation expenses as well as all costs associated with the ownership, maintenance and management of the related patents.

Consolidated operating expenses are comprised of depreciation, amortization of intangible assets, selling, general and administrative costs, research and development costs ("R&D"), impairment losses on intangible assets and other charges. Total operating expenses for the three months and year ended December 31, 2021 were \$21,425 and \$65,223, compared to \$14,174 and \$51,475 in the comparative prior year periods. The increase in operating expenses was primarily driven by the acquisitions of Sensor Line, VDS and ETC due to the additions of these companies' overhead costs being absorbed as well as an increase in other charges, which encompasses acquisition-related costs for these acquisitions.

Selling, general and administrative costs are primarily comprised of management, sales and administrative personnel costs, sales and marketing expenses, occupancy costs, and professional advisory and regulatory fees. R&D costs are primarily composed of salary and materials costs associated with our various R&D activities, net of government grants and investment tax credits. Selling, general and administrative and R&D expenses for the three months and year ended December 31, 2021 was \$11,768 and \$35,711 compared to \$8,791 and \$29,150 for the comparative prior year periods. The variance is primarily attributable to the additional costs from the new acquisitions.

Other charges include costs and recoveries that relate to certain restructuring initiatives undertaken from time to time, acquisition-related costs and recoveries and other charges. Other charges for the three months and year ended December 31, 2021 were \$2,085 and \$6,133 compared to \$355 and \$1,227 for the comparative prior year periods. The increase in the current year compared to the prior year periods is related to the transaction expenses incurred for the acquisitions of Sensor Line, VDS and ETC as well as restructuring and termination costs related to management changes.

Net income of \$14,255 from discontinued operations for the year ended December 31, 2020, reflects the results of VIZIYA, the single investment in our former Enterprise Software segment that was sold on May 15, 2020. Revenue for the year ended December 31, 2020 was \$6,132 less direct cost of revenues of \$1,211, operating and other expenses of \$7,413, and a net tax expense of \$966.

Reconciliation of Net (Loss) Income to Adjusted EBITDA

Management considers Adjusted EBITDA, a non-IFRS financial measure, to be a useful indicator for the business to capture financial performance in a given period related to the operations of Quarterhill and each of our reporting segments.

We reported Adjusted EBITDA of \$878 and \$5,027 for the three months and year ended December 31, 2021, compared to \$(6,080) and \$31,200 for the comparative prior year periods. The decrease in Adjusted EBITDA for the year ended December 31, 2021, compared to the prior year period is due to the changes in revenue and expenses from the Licensing segment as previously explained. With the creation of Quarterhill and the adoption of a growth oriented strategy anchored in acquisitions of technology businesses in 2017, we began tracking expenses related to the acquisitions. Other charges generally consist of advisor fees, accounting and valuation fees, due diligence related expenses and legal fees, restructuring charges, and other one-time items. Although these expenses may recur as we complete additional acquisitions, they are not fundamental to the actual operations of our businesses and, therefore, have been excluded in the calculation of Adjusted EBITDA. The remaining adjustments we have made relate to finance income or expense, depreciation and amortization, impairment loss on intangibles, non-cash stock-based compensation, equity earnings and dividends received from joint venture, other acquisition related accounting items and other one-time charges.

From time to time, we may acquire businesses in purchase transactions that typically result in the recognition of goodwill and other identifiable intangible assets. Acquired goodwill is not amortized but is subject to impairment testing at least annually and as other events and circumstances dictate. Other identifiable intangible assets are typically subject to amortization and, therefore, will likely increase future expenses. The determination of the value of such intangible assets requires us to make estimates and assumptions. We have ascribed value to identifiable intangible assets other than goodwill in our purchase price allocations including, but not limited to, backlog, trade name, non-competition agreements, customer and developed software related intangible assets. To the extent we ascribe values to identifiable intangible assets that have finite lives, we amortize those values over the estimated useful lives of the assets.

Reconciliations of Net (Loss) Income to Adjusted EBITDA

	Three months ended December 31,									
	2021					2020				
		\$	Pe	r Share ^[2]		\$	F	Per Share		
Net loss from continuing operations	\$	(9,517)	\$	(0.08)	\$	(10,201)	\$	(0.09)		
Adjusted for:										
Income tax recovery		(862)		(0.01)		(2,294)		(0.02)		
Foreign exchange (gain) loss		(561)		_		425		—		
Finance expense, net		1,750		0.02		47		—		
Other charges		2,085		0.02		355		—		
Depreciation and amortization		7,572		0.05		5,028		0.05		
Stock based compensation expense		571		0.01		571		0.01		
Dividends received from joint venture		_		_		477		—		
Other income		(160)		_		(488)		_		
Adjusted EBITDA ^[1]	\$	878	\$	0.01	\$	(6,080)	\$	(0.05)		

[1] Refer to Adjusted EBITDA - Non-IFRS Financial Measures

[2] Refer to Adjusted EBITDA per share – Non-IFRS ratio

Weighted average number of Common Shares

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	Year ended December 31,									
	2021					2020				
		\$	Per Share			\$	Р	er Share		
Net (loss) income from continuing operations	\$	(22,183)	\$	(0.19)	\$	4,428	\$	0.04		
Adjusted for:										
Income tax (recovery) expense		(4,546)		(0.04)		4,837		0.04		
Foreign exchange gain		(1,216)		(0.01)		(88)		—		
Finance expense (income), net		2,164		0.02		(114)		—		
Other charges		6,133		0.05		1,227		0.01		
Impairment losses on intangible assets		—		—		295		—		
Depreciation and amortization		23,379		0.20		20,803		0.18		
Stock based compensation expense		1,955		0.02		1,015		0.01		
Dividends received from joint venture		1,348		0.01		477		—		
Other income		(2,007)		(0.02)		(1,680)		(0.01)		
Adjusted EBITDA	\$	5,027	\$	0.04	\$	31,200	\$	0.27		

Weighted average number of Common Shares

Basic

114,013,610

113,834,597

116,939,833

114,137,754

SEGMENTED RESULTS

Segmented results of operations for the three months year ended December 31, 2021 are included in this MD&A. Following the disposition of VIZIYA in the quarter ended June 30, 2020, Quarterhill now operates in two distinct segments.

	Three months ended December 31, 2021									
CONTINUING OPERATIONS	Licensing		Transp	lligent portation stems	Cor	rporate		Total		
Revenues	\$	4,708	\$	46,453	\$	_	\$	51,161		
Direct cost of revenues		5,768		33,318		—		39,086		
Gross profit		(1,060)		13,135		—		12,075		
Depreciation and amortization		3,232		4,296		44		7,572		
Selling, general and administrative expenses		568		8,599		1,930		11,097		
Research and development expenses		—		671		—		671		
Other charges		—		(104)		2,189		2,085		
Results from operations		(4,860)		(327)		(4,163)		(9,350)		
Finance expense, net		63		757		930		1,750		
Foreign exchange gain		(37)		(232)		(292)		(561)		
Other (income) loss		—		(189)		29		(160)		
Loss before taxes		(4,886)		(663)		(4,830)		(10,379)		
Income tax (recovery) expense		(1,984)		247		875		(862)		
Net loss income from continuing operations	\$	(2,902)	\$	(910)	\$	(5,705)	\$	(9,517)		

	Three months ended December 31, 2020									
CONTINUING OPERATIONS	Licensing		Intelligent Transportation Systems		Corporate			Total		
Revenues	\$	474	\$	17,618	\$	—	\$	18,092		
Direct cost of revenues		5,338		11,091		—		16,429		
Gross profit		(4,864)		6,527		_		1,663		
Depreciation and amortization		3,345		1,628		55		5,028		
Selling, general and administrative expenses		800		2,969		4,554		8,323		
Research and development expenses		—		468		—		468		
Other charges		—		224		131		355		
Results from operations		(9,009)		1,238		(4,740)		(12,511)		
Finance expense (income), net		1		55		(9)		47		
Foreign exchange (gain) loss		(669)		651		443		425		
Other income		—		(488)		—		(488)		
(Loss) income before taxes		(8,341)		1,020		(5,174)		(12,495)		
Income tax (recovery) expense		(3,204)		1,134		(224)		(2,294)		
Net loss from continuing operations	\$	(5,137)	\$	(114)	\$	(4,950)	\$	(10,201)		

	Year ended December 31, 2021									
CONTINUING OPERATIONS	Li	censing	Tra	ntelligent nsportation Systems	Corporate		Total			
Revenues	\$	25,722	\$	99,973	\$ —	\$	125,695			
Direct cost of revenues		21,809		66,451	—		88,260			
Gross profit		3,913		33,522	—		37,435			
Depreciation and amortization		12,550		10,629	200		23,379			
Selling, general and administrative expenses		3,544		20,237	9,558		33,339			
Research and development expenses		_		2,372	—		2,372			
Other charges		_		3,630	2,503		6,133			
Results from operations		(12,181)		(3,346)	(12,261)		(27,788)			
Finance expense, net		118		1,151	895		2,164			
Foreign exchange gain		(119)		(692)	(405)		(1,216)			
Other (income) loss		_		(2,039)	32		(2,007)			
Loss before taxes		(12,180)		(1,766)	(12,783)		(26,729)			
Income tax (recovery) expense		(4,971)		(885)	1,310		(4,546)			
Net loss from continuing operations	\$	(7,209)	\$	(881)	\$ (14,093)	\$	(22,183)			

			Yea	r ended Dec	embe	er 31, 2020	
CONTINUING OPERATIONS	Licensing			Intelligent Transportation Systems		orporate	Total
Revenues	\$	78,260	\$	66,266	\$	_	\$ 144,526
Direct cost of revenues		46,205		39,463		_	85,668
Gross profit		32,055		26,803		_	58,858
Depreciation and amortization		14,082		6,605		116	20,803
Selling, general and administrative expenses		3,386		11,393		12,089	26,868
Research and development expenses		_		2,282		_	2,282
Impairment losses on intangible assets		295		_		_	295
Other charges		—		883		344	1,227
Results from operations		14,292		5,640		(12,549)	7,383
Finance (income) expense, net		(61)		283		(336)	(114)
Foreign exchange loss (gain)		647		27		(762)	(88)
Other income		—		(1,680)		—	(1,680)
Income (loss) before taxes		13,706		7,010		(11,451)	9,265
Income tax (recovery) expense		(325)		1,864		3,298	 4,837
Net income (loss) from continuing operations	\$	14,031	\$	5,146	\$	(14,749)	\$ 4,428

Intelligent Transportation Systems Segment

	Three months ended December 31,					Year ended December 31,				
		2021		2020		2021		2020		
Revenues	\$	46,453	\$	17,618	\$	99,973	\$	66,266		
Direct cost of revenues		33,318		11,091		66,451		39,463		
Gross profit		13,135		6,527		33,522		26,803		
Depreciation and amortization, net		4,296		1,628		10,629		6,605		
Selling, general and administrative expenses		8,599		2,969		20,237		11,393		
Research and development expenses		671		468		2,372		2,282		
Other charges		(104)		224		3,630		883		
Results from operations		(327)		1,238		(3,346)		5,640		
Finance expense, net		757		55		1,151		283		
Foreign exchange (gain) loss		(232)		651		(692)		27		
Other income		(189)		(488)		(2,039)		(1,680)		
(Loss) income before taxes		(663)		1,020		(1,766)		7,010		
Income tax expense (recovery)		247		1,134		(885)		1,864		
Net (loss) income from continuing operations	\$	(910)	\$	(114)	\$	(881)	\$	5,146		
Adjusted EBITDA	\$	4,074	\$	3,648	\$	12,657	\$	13,823		
Other reconciling items:										
Stock-based compensation	\$	209	\$	81	\$	396	\$	144		
Dividends received from joint venture	\$	_	\$	477	\$	1,348	\$	477		

The ITS segment's revenues for the three months and year ended December 31, 2021 were \$46,453 and \$99,973 compared to \$17,618 and \$66,266 in the prior year comparative periods, respectively, primarily due to the expansion of our ITS segment with the acquisitions of Sensor Line, VDS and ETC this year as well as the subsiding of effects from project delays experienced in previous quarters and periods.

Our ITS revenue streams consist of revenues earned on contracted projects, which are generally recognized over time, product sales, hardware and software system implementations, and service and maintenance contracts. Service and maintenance projects generally range from one to five year terms but can be renewed with some contracts that could reach up to ten years or more. For project based work, revenues will routinely vary significantly depending on the timing and nature of the specific projects underway in each reporting period. This is due to the seasonality inherent in our ITS segment where weather conditions in North America in particular may impact installation for certain projects, potentially resulting in lower revenue in the first quarter of a given fiscal year, while subsequent quarters are generally when project and service contracts are most active.

The ITS segment's gross profit as a value and as a percentage of revenues may be subject to significant variance in each reporting period due to the nature and type of contact and service work currently in process, currency volatility and competitive factors, among other things.

Total operating expenses are comprised of selling, general and administrative costs, R&D costs, depreciation, amortization of intangible assets and other charges. Total operating expenses for the three months and year ended December 31, 2021 were \$13,462 and \$36,868 compared to \$5,289 and \$21,163 in the prior year comparative periods, respectively. The general increase compared to the prior period generally reflects the addition to the operating expenses of our new acquisitions this year as well as an increase to other charges which is mostly comprised of acquisition-related expenses.

We are committed to continual investments in R&D to enhance our current products and advance the availability of new products within the ITS industry. For the year ended December 31, 2021, net R&D spending

levels were approximately 2.4% of segment revenue. Total R&D expenses have been offset, in part, by government grant recoveries that have enabled us to maintain staffing levels to accelerate R&D activities in the area of data analytics and new non-intrusive sensor technologies.

Income tax expense for the three months ended December 31, 2021 was \$247 compared to \$1,134 for the three months ended December 31, 2020. Income tax recovery for the year ended December 31, 2021 was \$885 compared to an expense of \$1,864 in the comparative prior year period. For the periods ending December 31, 2021, income tax recovery decreased from the prior period primarily from the revenue and profitability increases over the same comparative periods. This was caused primarily by the increase in profit as a result of the three acquisitions in the year ended December 31, 2021.

Our ITS segment is exposed to foreign exchange risk primarily relating to its revenue, operating and capital expenditures, net assets held in foreign currencies, and embedded derivative portions of unearned revenue on certain U.S. dollar denominated sales contracts in its North America and Latin America markets. This is more fully described in the Risks and Uncertainties section.

Other income includes IRD's share of income in its joint venture, Xuzhou-PAT Control Technologies Limited ("XPCT"). XPCT has two business divisions that provide products and services to the ITS industry and construction equipment manufacturers. For the three months and year ended December 31, 2021, IRD's share of XPCT's income was \$150 and \$1,924 compared to \$488 and \$1,680 for the year ended December 31, 2020. The improved performance is primarily due to the continued strong performance and growth in XPCT's construction equipment division.

Licensing Segment

	Three months ended December 31,					Year ended December 3			
		2021		2020		2021		2020	
Revenues	\$	4,708	\$	474	\$	25,722	\$	78,260	
Direct cost of revenues		5,768		5,338		21,809		46,205	
Gross profit		(1,060)		(4,864)		3,913		32,055	
Depreciation and amortization		3,232		3,345		12,550		14,082	
Selling, general and administrative expenses		568		800		3,544		3,386	
Impairment losses of intangible assets		_		_		_		295	
Results from operations		(4,860)		(9,009)		(12,181)		14,292	
Finance expense (income), net		63		1		118		(61)	
Foreign exchange gain		(37)		(669)		(119)		647	
Loss before taxes		(4,886)		(8,341)		(12,180)		13,706	
Income tax (recovery) expense		(1,984)		(3,204)		(4,971)		(325)	
Net income (loss)	\$	(2,902)	\$	(5,137)	\$	(7,209)	\$	14,031	
Adjusted EBITDA	\$	(1,545)	\$	(5,588)	\$	1,159	\$	28,837	
Other reconciling items:									
Stock-based compensation	\$	83	\$	76	\$	790	\$	245	

For the three months and year ended December 31, 2021, Licensing segment revenues were \$4,708 and \$25,722 compared to \$474 and \$78,260 in the respective comparative prior year periods. The increase in revenues for the three months ended December 31, 2021 is largely due to the general one-time nature of WiLAN's licenses as well as some impact from foreign exchange as WiLAN's licensing contracts are denominated in US dollars. Accordingly, significant fluctuations in revenue, gross profit, and Adjusted EBITDA will occur when volume or dollar value of licenses change from one period to the next. The decrease in revenue in the year ended December 31, 2021 was directly attributable to the closure of significantly larger licensing contracts in the prior year comparative periods.

Patent licenses are considered a promise to provide the right to use patented technologies and revenue is recognized when the patent right is effective. An exception to this guidance is related to revenue generated from sales or usage-based royalties promised in exchange for a patent license. In these circumstances, customers generally report their royalty obligations one quarter in arrears and accordingly, we will estimate the expected royalties to be reported for a particular accounting period, with a true up to the actual royalties reported in the following financial reporting period.

Direct cost of revenues for the three months and year ended December 31, 2021 were \$5,768 and \$21,809 compared to \$5,338 and \$46,205 for the respective prior year comparative periods. The direct cost of revenues for the quarter increased from the prior year comparative period primarily as a result of an increase in the overall contingent litigation and contingent partner expenses. During the three months ended December 31, 2021, revenue related to significant contracts closed increased compared to the prior year ended December 31, 2021 have decreased from the prior year comparative period primarily as a result of decreased contingent litigation and partner expenses. Contingent litigation and contingent partner for each specific contract licensed in a quarter as well as the extent of licensing in a period. The amount of licensing revenue contracted during the year ended December 31, 2021 was significantly lower than the prior period and the contingent litigation and contingent partner fee arrangements applicable on these same licenses were relatively lower. This resulted in the overall decrease of the contingent litigation and contingent partner expenses for the year ended December 31, 2021.

Operating expenses are generally considered selling, general and administration type expenses and include all overheads for WiLAN operations in addition to depreciation and amortization expense and any loss on disposal of assets or impairment losses. For the three months and year ended December 31, 2021, operating expenses within this segment were \$3,800 and \$16,094 compared to \$4,145 and \$17,763 in the comparative prior year periods. The decrease in costs in the current quarter and during the year is primarily related to lower amortization of intangibles.

Income tax recovery for the three months ended December 31, 2021 was \$1,984 compared to a recovery of \$3,204 for the three months December 31, 2020. Income tax recovery for the year ended December 31, 2021 was \$4,971 compared to a recovery of \$325 in the comparative prior year period. For the periods ending December 31, 2021, income tax recovery increased compared to the prior periods primarily from the revenue and profitability decreases over the same comparative periods. This was due to larger significant contracts having been closed during the prior periods. For the year ended December 31, 2021, current income tax expenses decreased from the prior year as a result of decreased revenue to which withholding taxes were attributable. Current income tax expenses for all reported periods consists primarily of foreign taxes withheld on payments received from licensees in foreign tax jurisdictions for which there is no treaty relief.

Former Enterprise Software Segment

Net income of \$nil and \$14,255 from discontinued operations for the year ended December 31, 2020, reflects the results of VIZIYA, the single investment in our former Enterprise Software segment that was sold on May 15, 2020. Revenues for the year ended December 31, 2020 were \$6,132 less direct cost of revenues of \$1,211, operating and other expenses of \$7,309, and an income tax expense of \$1,559.

SELECTED CONSOLIDATED ANNUAL AND QUARTERLY RESULTS

Selected Annual Results

	Year ended December 31,								
(in thousands of Canadian dollars, except per share amounts)		2021		2020	2019				
Revenue	\$	125,695	\$	144,526	\$	172,925			
Net income (loss) from continuing operations		(22,183)		4,428		11,093			
Net income from discontinued operations		—		14,255		1,569			
Net income (loss)		(22,183)		18,683		12,662			
Income (loss) per share, basic and diluted		(0.19)		0.16		0.10			
Dividends declared per share		0.05		0.05		0.05			
Total assets		427,195		309,953		324,022			
Total liabilities	\$	186,079	\$	38,023	\$	48,819			

In 2021, we completed three acquisitions, resulting in significant growth in our ITS segment, however, revenues year over year decreased as a result of the closing of significantly fewer and smaller contracts in our Licensing segment. All revenue amounts exclude discontinued operations. In 2020, we completed the sale of VIZIYA which represented our Enterprise Software Segment. Virtually all of the revenues from our Licensing segment are one-time in nature and accordingly significant fluctuations in revenue and net income (loss) will result when volume or dollar value of licenses change from one year to the next.

		Revenues		Net income (loss)				e (loss) per (basic)	Adjusted EBITDA *	Adjusted EBITDA per share *(basic)
	Cont. Ops	Disc. Ops.	Total	Cont. Ops	Disc. Ops.	Total	Cont. Ops	Disc. Ops.	Cont	Ops.
Quarter ended	\$ 000's	\$ 000's	\$ 000's	\$ 000's	\$ 000's	\$ 000's	\$	\$	\$ 000's	\$
December 31, 2021	51,161	—		(9,517)	—	(9,517)	(0.08)	_	878	0.01
September 30, 2021	36,343	—	36,343	(2,003)	—	(2,003)	(0.02)	_	7,576	0.06
June 30, 2021	18,875	—	18,875	(6,376)	—	(6,376)	(0.06)	_	(3,019)	(0.03)
March 31, 2021	19,316	_	19,316	(4,287)	—	(4,287)	(0.04)	_	(408)	—
December 31, 2020	18,092	_	18,092	(10,201)	—	(10,201)	(0.09)	_	(6,080)	(0.05)
September 30, 2020	87,997	_	87,997	24,528	—	24,528	0.21	_	39,035	0.34
June 30, 2020	16,824	1,723	18,547	(4,987)	14,455	9,468	(0.04)	0.12	(1,992)	(0.02)
March 31, 2020	21,589	4,433	26,022	(4,932)	(180)	(5,112)	(0.04)	_	218	—

Selected Quarterly Results

Adjusted EBITDA and the respective per share amounts are non-IFRS measures; please refer to "Non-IFRS Financial Measures and Non-IFRS Ratios" and "Reconciliation of Adjusted EBITDA" sections of this MD&A.

Historically, our operating results have fluctuated on a quarterly basis and we expect that quarterly results will continue to fluctuate in the future due to the portion of consolidated revenues derived from the general onetime nature of WiLAN's licenses as well as the fluctuation occurring in the ITS business due to seasonality. Operating results for interim periods should not be relied upon as an indication of the results to be expected or achieved in any future period or any fiscal year as a whole. The risk factors affecting our revenue and results, many of which are outside of our control, include those set out under the heading "Risk Factors" in each of our AIF and the Prospectus Supplement.

Total assets by segment are as follows:

As at	December 31, 202	. D	December 31, 2020		
Licensing	\$ 86,468	\$	107,852		
Intelligent Transportation Systems	263,622		65,888		
Total segment assets	350,090		173,740		
Total corporate assets	77,105		136,213		
Total assets	\$ 427,195	\$	309,953		

Dividends declared for the years ended December 31, 2021 and 2020 were as follows:

		2021			2020			
	Pe	Per Share		Total	Per Share		Total	
1st quarter	\$	\$ 0.0125		1,432	\$	0.0125	\$	1,481
2nd quarter		0.0125		1,422		0.0125		1,462
3rd quarter		0.0125		1,420		0.0125		1,498
4th quarter		0.0125		1,415		0.0125		1,383
	\$	0.0500	\$	5,689	\$	0.0500	\$	5,824

CAPITAL AND LIQUIDITY

The Company's capital management objectives are to maintain financial flexibility in order to pursue its strategy of organic and acquisitive growth, and, from time to time, pay dividends and, from time to time, return capital to shareholders. The Company defines our capital as cash, the aggregate of cash and cash equivalents, short-term investments, restricted short-term investments, long-term debt, convertible debentures and shareholders' equity. The Company manages its capital structure in accordance with changes in economic conditions. To maintain or adjust its capital structure, the Company may purchase Common Shares for cancellation pursuant to one or more normal course issuer bids and/or substantial issuer bids, issue new Common Shares, issue convertible debentures or raise or retire our debts.

Our cash, cash equivalents and short-term investments, exclusive of any restricted amounts, totaled \$72,597 at December 31, 2021 compared to \$141,250 at December 31, 2020 representing a decrease of \$68,653 primarily due to the acquisitions of Sensor Line, VDS and ETC. At December 31, 2021, we had sufficient working capital of \$105,058 to cover short and long-term obligations. Our cash position remains very strong, however, due to the nature of our business segment activities, operating cash flows may vary significantly between periods due to changes in working capital balances. As of the date of this MD&A, our cash balance was approximately \$64,800.

Our cash resources are generally used to fund our operations, provide working capital to any of our subsidiaries if needed and to acquire additional businesses. We may also fund our ongoing cash requirements through the use of additional short-term and long-term debt and, if desirable, based on market conditions, by selling Common Shares and debt securities to the public.

We have a revolving credit facility through Canadian Imperial Bank of Commerce available in the amount of \$8,000 (or the equivalent in US dollars) for general corporate purposes and a further \$2,000 for a foreign exchange facility. Canadian dollar or US dollar amounts advanced under this credit facility are payable on demand and bear interest at the bank's Canadian prime rate plus 1.0% per annum or US base rate plus 1.0% per annum as may be applicable. Borrowings under this facility are collateralized by a general security agreement over our cash and cash equivalents, receivables and present and future personal property of the Quarterhill holding company and the Licensing segment. As at and during the quarter ended December 31, 2021, we had no borrowings under this facility.

During the year, generally to finance the ETC acquisition, we entered into a credit agreement to receive senior secured credit facilities from HSBC Bank Canada and Royal Bank of Canada consisting of a revolving credit facility in the maximum amount of \$19,090 (US\$15,000) and a term credit facility of \$62,926 (US\$50,000). These facilities replaced all existing credit facilities we had with HSBC Bank Canada. The interest rate as at

December 31, 2021 was 3.1% and both facilities have a maturity date of August 31, 2026 with a general security agreement over all of the assets in North America of IRD, ETC and its parent holding company, Quarterhill USA, Inc. The carrying value of these assets as at December 31, 2021 was \$230,488. As at December 31, 2021, we had no borrowings drawn from the revolving credit facility, however, we had drawn and subsequently repaid \$12,727 (US\$10,000) during the third and fourth quarters to help finance the ETC acquisition.

During the quarter, WiLAN received access to a revolving demand facility in the amount of \$3,040 to support letters of credit and/or letters of guarantee as well as a \$50 credit facility with Royal Bank of Canada for which \$3,095 in restricted short-term investments are held as collateral.

Pursuant to our NCIB, during the year ended December 31, 2021, the Company repurchased for cancellation 841,300 Common Shares at an average purchase price of \$2.45 per share totaling \$2,065 under the NCIB. Since the commencement of the NCIB on August 10, 2020, the Company has repurchased a total of 3,047,936 Common Shares for \$6,363. The NCIB expired on August 9, 2021.

On October 27, 2021, we filed and obtained a receipt for a short form base shelf prospectus for an aggregate offering amount of up to \$200,000 over 25 months and subsequently entered into a \$57,500 bought-deal financing of convertible unsecured subordinated debentures with a syndicate of underwriters pursuant to the Prospectus Supplement. The gross proceeds of this offering include the full exercise of the \$7,500 over-allotment option by the underwriters. The net proceeds of approximately \$55,000 will be used to support acquisitive growth and to provide additional working capital to support the operations of our businesses. We have raised approximately \$140,000 in debt and equity capital this year to date.

CONTRACTUAL OBLIGATIONS

Contractual obligations relating to accounts payable and accrued liabilities, long-term debt, convertible debentures and lease liabilities as at December 31, 2021 are as follows:

	Total	Less than 1 year	2 - 3 years	4 - 5 years	Thereafter
Accounts payable and accrued \$	42,008	\$ 42,008 \$	- \$	— \$	_
Long-term debt	48,935	3,181	9,137	36,617	—
Convertible debentures	33,734	_	_	33,734	_
Lease liabilities	7,792	2,220	2,797	2,074	701
\$	132,469	\$ 47,409 \$	11,934 \$	72,425 \$	701

The table above is measured using the discounted cash flow method.

OUTSTANDING COMMON SHARE DATA

We are authorized to issue an unlimited number of Common Shares, 6,351 special preferred, redeemable, retractable, non-voting shares and an unlimited number of preferred shares, issuable in series. As at December 31, 2021, there were 113,880,853 Common Shares and no special or preferred shares issued and outstanding. We also maintain the Quarterhill Inc. 2018 Equity Incentive Plan (the "Equity Plan"). Under the Equity Plan, we can issue a maximum of 9.5% of our issued and outstanding Common Shares from time to time which was, as at December 31, 2021, up to 10,818,681 Common Shares. As at December 31, 2021, we had options granted to purchase up to 8,544,271 Common Shares. During the year ended December 31, 2021, the Company repurchased 841,300 Common Shares for \$2,065 under our NCIB.

Pursuant to the Equity Plan, the Company has also granted restricted stock units ("RSUs") to certain employees in March 2021. Pursuant to the Equity Plan, these RSUs are settled in common shares issued from treasury on a one-to-one basis in six tranches, with the first tranche vested at the grant date on March 15, 2021 and each subsequent tranche vesting upon the Company coming out of its regular quarterly blackout for the fiscal quarters ending June 30 and December 31, in 2021, 2022 and 2023. The Company granted 556,721 RSUs on March 15, 2021, valued using the most recent TSX closing price for the common shares on the grant date of

\$2.59 for a total of \$1,441. For the year ended December 31, 2021, the Company has recognized \$141 and \$989, respectively, in stock-based compensation expense as a result.

OFF-BALANCE SHEET ARRANGEMENTS

As at December 31, 2021, IRD has an outstanding 100% guarantee to XPCT, for a loan in the amount of 15,000 yuan or \$3,008 (December 31, 2020 - \$2,954); however, IRD has the right to seek recourse against its joint venture partner for any amount greater than IRD's proportionate share of the liability. The amount owing represents the maximum amount available to be drawn under this facility.

RELATED PARTY TRANSACTIONS

Subsidiaries

The consolidated financial statements include the accounts of Quarterhill Inc. and its wholly-owned subsidiaries. Balances and transactions between the Company and its subsidiaries, which are related parties, have been eliminated on consolidation and are not disclosed in this section.

Investment in Joint Venture

Investment in Joint Venture comprises a 50% interest, held by the Company's IRD subsidiary, in XPCT, an ITS products and manufacturing service provider in China. IRD had sales of \$150 (2020 - \$nil) during the year ended December 31, 2021. At December 31, 2021, IRD had amounts owing to XPCT of \$1 (2020 - \$48).

Key management personnel

Key management personnel are Quarterhill Inc.'s President & Chief Executive Officer, Chief Financial Officer and Senior Vice-President, General Counsel & Corporate Secretary and the Chief Executive Officers of each of ETC, IRD and WiLAN. Other related parties are close family members of the key management personnel and entities controlled by key management personnel. Key management personnel compensation expense for the year ended December 31, 2021 was \$6,020 (2020 - \$3,976).

PROPOSED TRANSACTIONS

There are no proposed transactions.

CRITICAL ESTIMATES

Key areas involving estimation, uncertainty and critical judgments include the following:

Business combinations

Purchase prices related to business combinations are allocated to the underlying acquired assets and liabilities based on their estimated fair value at the time of acquisition. The determination of fair value requires the Company to make assumptions, estimates and judgments regarding cash flow projects, valuation techniques, economic risk, weighted average cost of capital and future events. Significant judgments, estimates and assumptions are also required by management in estimating the amount of contingent consideration payable. As a result, the purchase price allocation impacts the Company's reported assets and liabilities, including the amounts allocated to intangible assets and goodwill, and future earnings due to the impacts of amortization expense and impairment testing.

Revenue recognition

Contract revenue, contract costs, contract liabilities and contract assets relating to the Intelligent Transportation Systems segment are based on estimates and judgments used in determining the progress of a contract. Estimates include amounts derived to measure the progress of the contract. Progress towards completion is measured by comparing the actual costs incurred to the total estimated costs for the contract. In determining the estimated costs to complete the contracts, assumptions and estimates are required to evaluate issues related to schedule, material and labour costs, changes in contract scope and subcontractor costs. Due to the nature of project contracts, estimates may change significantly between accounting periods.

Changes in estimates are reflected in the period in which the circumstances that gave rise to the change became known and affect the Company's revenue, contract assets, and contract liabilities.

Asset Impairments and Impairment Reversals

Quarterhill's estimate of the recoverable amount for the purpose of impairment testing requires management to make assumptions regarding estimates of the present value of future cash flows including growth opportunities, economic risk, and the discount rate. These same assumptions are also used when assessing recoverability of impairments previously recognized.

Income taxes and deferred taxes

Quarterhill is subject to income taxes in Canada and other foreign jurisdictions. The calculation of income taxes in many cases, however, requires significant judgment in interpreting tax rules and regulations. The Company's tax filings are subject to audits which could materially change the amount of current and deferred income taxes and liabilities. Additionally, estimation of the income tax provision includes evaluating the recoverability of deferred tax assets based on the assessment of the Company's ability to use the underlying future tax deductions before they expire against future taxable income. The assessment is based on existing tax laws, estimates of future profitability and tax planning strategies. If the future taxable results of the Company differ significantly from those expected, the Company would be required to increase or decrease the carrying value of the deferred tax assets with a potentially material impact on the Company's consolidated statements of financial position and consolidated statements of comprehensive income. The carrying amount of deferred tax assets is reassessed at each reporting period and reduced to the extent that it is no longer probable that sufficient taxable income will be available to utilize all or part of the deferred tax assets. Unrecognized deferred tax assets are recognized to the extent that it is more likely than not that taxable income will be available against which deferred tax assets can be utilized.

FUTURE ACCOUNTING PRONOUNCEMENTS

Listed below are the standards, amendments, and interpretations that we reasonably expect to be applicable to Quarterhill at a future date and that we intend to adopt when they become effective.

Classification of Liabilities as Current or Non-Current (Amendments to IAS 1)

In January 2020, the IASB issued amendments to IAS 1, "Presentation of Financial Statements" ("IAS 1") to clarify that the classification of liabilities as current or non-current should be based on rights that are in existence at the end of the reporting period and is unaffected by expectations about whether or not an entity will exercise their right to defer settlement of a liability. The amendments further clarify requirements for classifying liabilities an entity will or may settle by issuing its own equity instruments. These amendments are effective for annual reporting periods beginning on or after January 1, 2023, with earlier application permitted. The adoption of these amendments is not expected to have a significant impact on the financial statements.

Disclosure of Accounting Policies (Amendments to IAS 1 and IFRS Practice Statement 2)

In February 2021, the IASB issued Disclosure of Accounting Policies (Amendments to IAS 1 and IFRS Practice Statement 2). The amendments provide guidance to help entities disclose their material (previously "significant") accounting. The amendments are effective for annual reporting periods beginning on or after January 1, 2023. Earlier application is permitted. The Company is currently assessing the impact of these amendments.

Definition of Accounting Estimates (Amendments to IAS 8)

In February 2021, the IASB issued Definition of Accounting Estimates (Amendments to IAS 8 - Accounting Policies, Changes in Accounting Estimates and Errors). The amendments define accounting estimates and clarify the distinction between changes in accounting estimates and changes in accounting policies. The amendments are effective for annual reporting periods beginning on or after January 1, 2023. Earlier application is permitted. The Company is currently assessing the impact of these amendments.

Fees in the '10 per cent' Test for Derecognition of Financial Liabilities (Amendments to IFRS 9)

As part of its 2018-2020 annual improvements to the IFRS standards process the IASB issued an amendment to IFRS 9. The amendment clarifies the types of fees that an entity includes when assessing whether the terms of a new or modified financial liability are substantially different from the terms of the original financial liability. The amendment specifies that only fees paid or received between the borrower and the lender, including fees

paid or received by either the borrower or lender on the other's behalf, should be included. An entity applies the amendment to financial liabilities that are modified or exchanged on or after the beginning of the annual reporting period in which the entity first applies the amendment. The amendment is effective January 1, 2022 with earlier adoption permitted. The Company will apply the amendments to financial liabilities that are modified or exchanged on or after the beginning of the tare modified or exchanged on or after the beginning of the annual reporting period in which the entity first applies the annual r

RISKS AND UNCERTAINTIES

Quarterhill and its operating subsidiaries operate in dynamic business and competitive economic environments that expose it to a number of risks and uncertainties. This MD&A is qualified in its entirety by the risk factors described under the heading "Risk Factors" in each of our AIF and Prospectus Supplement. The risks and uncertainties discussed in greater detail under the heading "Risk Factors" in our AIF are not, however, the only risks we face. We may also be subject to additional risks and uncertainties that are currently unknown or not currently deemed material to our respective business operations. If any of the risks or uncertainties we and our operating subsidiaries face were to occur, they could materially affect our future operating results and could cause actual events to differ materially from those which we expect or that we have described in our forward-looking statements.

In addition to items identified in the AIF and Prospectus Supplement, we may be exposed to other risks as follows:

Credit Risk

Credit risk is the risk of financial loss to the Company if a licensee or counter-party to a financial instrument fails to meet its contractual obligations. Financial instruments that potentially subject us to concentrations of credit risk consist primarily of cash and cash equivalents, short-term investments, restricted short-term investments and accounts receivable.

Our cash and cash equivalents and short-term investments consist primarily of deposit investments that are held primarily with Canadian chartered banks. Management does not expect any counter-parties to fail to meet their obligations.

We recognize a loss allowance provision using the simplified approach based on lifetime expected credit losses. Our exposure to credit risk with our accounts receivable from customers is influenced mainly by the individual characteristics of each customer. Our operating subsidiaries' customers are for the most part, large multinational companies or government organizations which do not have a history of non-payment. Credit risk from accounts receivable encompasses the default risk of customers. Prior to entering into transactions with new customers, we assess the risk of default associated with the particular customer. In addition, on an ongoing basis, management monitors the level of accounts receivable attributable to each customer and the length of time taken for amounts to be settled and where necessary, takes appropriate action to follow up on those balances considered overdue. We have had no material bad debts for any periods presented.

None of the amounts outstanding have been challenged by the respective counterparties and we continue to conduct business with them on an ongoing basis.

Quarterhill reviews financial assets on an ongoing basis with the objective of identifying potential matters which could delay the collection of funds at an early stage. Once items are identified as being past due, contact is made with the respective customer to determine the reason for the delay in payment and to establish an agreement to rectify the breach of contractual terms.

Liquidity Risk

Liquidity risk is the risk that we will not be able to meet our financial obligations as they fall due. Our objective in managing liquidity risk is to ensure that we have sufficient liquidity available to meet our liabilities when due. We manage our liquidity needs through various sources including cash generated through operations, cash reserves, various revolving credit facilities, long-term debt, convertible debentures and the issuance of Common Shares.

Market Risk

Market risk is the risk that the fair value of future cash flows from our financial instruments will fluctuate due to changes in interest rates and foreign currency exchange rates.

Interest Rate Risk

The financial instruments that expose the Company to interest rate risk are its cash and cash equivalents, shortterm investments, bank indebtedness and long-term debt. The Company's objectives of managing its cash and cash equivalents and short-term investments are to ensure sufficient funds are maintained on hand at all times to meet day-to-day requirements and to place any amounts that are considered in excess of day-to-day requirements on short-term deposit with the Company's banks so that they earn interest. When placing amounts of cash and cash equivalents into short-term investments, the Company only places investments with Canadian chartered banks and ensures that access to the amounts placed can be obtained on short notice. A one percent increase or decrease in interest rates would not have resulted in a material increase or decrease in interest income or expense during the year ended December 31, 2021.

Currency Risk

Portions of the Company's revenues and operating expenses are denominated in U.S. dollars, Indian rupees, Chilean pesos, Mexican pesos, Euros and Chinese yuan. Because these financial statements are reported in Canadian dollars, the Company's operating results are subject to changes in the exchange rate of the foreign currencies (primarily U.S. dollars) relative to the Canadian dollar. For instance, a decrease in the value of the US dollar relative to the Canadian dollar has an unfavourable impact on US dollar denominated revenues and a favourable impact on U.S. dollar denominated direct cost of revenues and operating expenses. Approximately 37% of the Company's cash and cash equivalents and short-term investments are denominated in US dollars and are subject to changes in the exchange rate of the Canadian dollar relative to the U.S. dollar.

The COVID-19 Pandemic

Since the onset of the COVID-19 Pandemic and the impacts of this crisis on the global economy, our businesses continue to evolve as we adapt to manage, operate, and sustain these businesses during these uncertain times.

Some countries or states in which we operate remain in COVID-19-related lockdowns of some degree and/or have imposed restrictions on non-essential business activities. As a result, each of our business segments has undertaken a number of steps to protect their employees while continuing their respective business operations. Since the onset of the pandemic, we have continued to employ proactive measures including closing offices, making provision for employees working from home, eliminating travel and closely following the guidelines issued by health and regulatory authorities. Over the past year, our human resource policies have evolved to respond to questions or concerns from our employees while continuing to explore opportunities to return to "in office" work environments where necessary. As a result of our proactive measures, our business units remain in full operation and continue to execute on the delivery of existing customer mandates, while also working to build and sustain business pipelines and advance new opportunities through their respective sales cycles.

Our business has not been immune to the impacts of the COVID-19 Pandemic, however, the majority of the work within each business unit remains ongoing, and in the case of the ITS business segment, certain work in our ITS segment has been deemed "essential" by applicable governing authorities. There remains risk, however, that certain project work or license sales will be deferred or restricted and new orders delayed, particularly in jurisdictions outside of Canada and the United States such as Latin America. In addition, we are experiencing some work inefficiencies due mainly to travel restrictions and also some delay in supply chain deliveries.

Diversification is central to Quarterhill's business model and, as such, revenues are not highly concentrated within any geography, business, or client base. During this period of uncertainty, we are prudently managing costs and safeguarding the strength of our balance sheet to support the resiliency of our business.

All risk factors should be considered carefully and readers should not place undue reliance on our forward-looking statements and forward-looking information. Any of the matters described under this "Risks and Uncertainties" section could have a material adverse effect on our businesses, results of operations and financial condition, in which case the trading price of the Common Shares could decline and a holder of

Common Shares could lose all or a part of their investment. Please also refer to the "Cautionary Note Regarding Forward-Looking Statements" section of this MD&A.

DISCLOSURE CONTROLS AND PROCEDURES AND INTERNAL CONTROL OVER FINANCIAL REPORTING

Our Chief Executive Officer and Interim Chief Financial Officer have designed or caused to be designed under their supervision, disclosure controls and procedures which provide reasonable assurance that material information regarding Quarterhill is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer in a timely manner.

In addition, our Chief Executive Officer and Chief Financial Officer have designed or caused to be designed under their supervision internal controls over financial reporting ("ICFR") to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements. The control framework used to design our ICFR is the "Internal Control - Integrated Framework (2013)" published by the Committee of Sponsoring Organizations of the Treadway Commission.

As of December 31, 2021, an evaluation was performed on the effectiveness of ICFR to provide reasonable assurance regarding the reliability of financial reporting and financial statement compliance with IFRS. Based on the evaluation performed at that time, the Chief Executive Officer and Chief Financial Officer concluded they were able to certify that the design and operating effectiveness of ICFR were effective.

There were no changes to our ICFR during the year ended December 31, 2021 that have materially affected, or are reasonably likely to materially affect, our ICFR.

A control system, no matter how well designed, can provide only reasonable, not absolute, assurance that its objectives are met. Due to inherent limitations in all such systems, no evaluations of controls can provide absolute assurance that all control issues, if any, within a company have been detected. Accordingly, our disclosure controls and procedures and our internal controls over financial reporting are effective in providing reasonable, not absolute, assurance that the objectives of our control systems have been met.



Quarterhill Inc.

2021 Annual Consolidated Financial Statements





MANAGEMENT'S RESPONSIBILITY FOR FINANCIAL REPORTING

The accompanying consolidated financial statements of Quarterhill Inc. ("Quarterhill" or the "Company") are the responsibility of management and have been approved by the Board of Directors (the "Board").

The consolidated financial statements have been prepared by management in accordance with the International Financial Reporting Standards. Management is responsible for ensuring that these consolidated financial statements, which include certain amounts based on estimates and judgments, reflect the Company's business transactions and financial position in all material respects.

Quarterhill maintains systems of internal accounting and administrative controls of high quality, consistent with reasonable cost. Such systems are designed to provide reasonable assurance that the financial information is relevant, reliable and accurate, and that the Company's assets are appropriately accounted for and adequately safeguarded.

The Board is responsible for ensuring that management fulfills its responsibilities for financial reporting and is ultimately responsible for reviewing and approving the consolidated financial statements. The Board carries out this responsibility through its Audit Committee (the "Committee"). The Committee is appointed by the Board, and all of its members are independent unrelated directors.

The Committee meets periodically with management, as well as with external auditors, to discuss internal controls over the financial reporting process, auditing matters and financial reporting items, to satisfy itself that each party is properly discharging its responsibilities, the consolidated financial statements and the external auditors' report. The Committee reports its findings to the Board for consideration when approving the consolidated financial statements for issuance to the shareholders. The Committee also considers, for review by the Board and approval by the shareholders, the engagement or re-appointment of the external auditors.

The consolidated financial statements have been audited by Ernst & Young LLP, the external auditors on behalf of the shareholders. Ernst & Young LLP has full and free access to the Committee.

March 20, 2022

/s/ Bret Kidd

Bret Kidd Chief Executive Officer

/s/ Steve Thompson

Steve Thompson Interim Chief Financial Officer

Independent auditor's report

To the Shareholders of **Quarterhill Inc.**

Opinion

We have audited the consolidated financial statements of **Quarterhill Inc.** and its subsidiaries [the "Group"], which comprise the consolidated statements of financial position as at December 31, 2021 and 2020, and the consolidated statements of (loss) income and comprehensive (loss) income, consolidated statements of shareholders' equity and consolidated statements of cash flows for the years then ended, and notes to the consolidated financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the Group as at December 31, 2021 and 2020 and its consolidated financial performance and its consolidated cash flows for the years then ended, in accordance with International Financial Reporting Standards ["IFRS"].

Basis for opinion

We conducted our audit in accordance with Canadian general accepted auditing standards. Our responsibilities under those standards are further described in the *Auditor's responsibilities for the audit of the consolidated financial statements* section of our report. We are independent of the Group in accordance with the ethical requirements that are relevant to our audit of the consolidated financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Key audit matter

Key audit matters are those matters that, in our professional judgment, were of most significance in our audit of the consolidated financial statements of the current period. These matters were addressed in the context of the audit of the consolidated financial statements as a whole, and in forming the auditor's opinion thereon, and we do not provide a separate opinion on these matters. For the matter below, our description of how our audit addressed the matter is provided in that context.

We have fulfilled the responsibilities described in the *Auditor's responsibilities for the audit of the consolidated financial statements* section of our report, including in relation to this matter. Accordingly, our audit included the performance of procedures designed to respond to our assessment of the risks of material misstatement of the consolidated financial statements. The results of our audit procedures, including the procedures performed to address the matter below, provide the basis for our audit opinion on the accompanying consolidated financial statements.

Key Audit Matter

Revenue recognition – Intelligent Transportation Systems

The Company's Intelligent Transportation Systems segment sells integrated systems with distinct performance obligations which involve the design, manufacturing and installation, maintenance and warranty of long-term projects that can span over periods beyond one year. Revenues for these fixed price integrated systems contracts are recognized over the progress towards completion of the performance obligations of the contract using a percentage-of-completion method. This method is measured by reference to costs incurred relative to the total estimated costs. The Company's policy for revenue recognition together with the related significant accounting estimates and assumptions is described in note 2 of the consolidated financial statements. For the year ended December 31, 2021, the Company's Intelligent Systems segment recognized \$100 million of revenue which includes revenues earned from fixed price integrated systems contracts.

The determination of the estimated costs to complete for each integrated system fixed price contract that is open as at the reporting date requires significant judgment in order to determine the amount of revenue to be recognized.

We determined that revenue recognition for open contracts for the Intelligent Transportation Systems segment is a matter of significance to the audit due to the significant judgment made by management in determining the estimated costs to complete for fixed priced contracts and, where applicable, the estimation of any loss on a project. Remaining costs to complete including material, labor and subcontracting costs, among others, are unique to each project, resulting in a high degree of auditor judgement, subjectivity and effort in performing procedures related to testing these estimates as of the reporting date.

How our audit addressed the key audit matter

For a sample of fixed price integrated system contracts that were open as of December 31, 2021, our audit procedures, among others:

- We inspected contractual arrangements including pricing and billing terms, change orders and terms and conditions impacting revenue recognition;
- We inquired and evaluated the consistency of responses obtained from operational and finance personnel regarding risks and uncertainties with respect to significant fixed-price contracts as well as the nature of the work yet to be completed and estimated costs to complete such work;
- We compared estimated costs to vendor quotes or actual costs for similar completed projects;
- We performed look back analysis where we compared the current margin for projects to the initial gross margin and / or to other similar completed projects and investigated differences from expectations; and
- We considered subsequent events after year end to corroborate estimates made at December 31, 2021.

Business Combination – valuation of acquired intangible assets

As disclosed in note 4 of the consolidated financial statements, the Company acquired all of the issued and outstanding shares of Electronic Transaction Consultant ("ETC") for cash consideration of \$151 million.

The acquisition is accounted for as a business combination in accordance with IFRS 3, the estimates of which are subjective in nature in determining the fair values of identified intangible assets.

The primary element of the valuation and purchase price allocation process was to assess the fair value of intangible assets of \$102 million in the form of customer relationships, technology and trade name.

Business combinations is a key audit matter in the audit due to significant management judgement in evaluating the inputs and assumptions used in the determination of fair value. The key inputs and assumptions include revenue growth, customer attrition, earnings margin and discount rate. Changes to these significant assumptions could have a significant impact on the fair value of acquired intangible assets.

How our audit addressed the key audit matter

To test the Company's estimated fair value of intangible assets, we performed the following procedures, among others:

- We reviewed the purchase agreement to obtain an understanding of the key terms and conditions to identify the necessary accounting considerations and identification of acquired assets and assumed liabilities;
- We evaluated the objectivity, competence, and independence of management's specialist;
- With the assistance of our valuation specialists, we evaluated the Company's model, valuation methodology and the various inputs utilized, including the discount rate, by referencing current industry and comparable company information as well as cash flow and company-specific risk; and
- We evaluated the reasonableness of significant assumptions and estimates used by management, including revenue growth, customer attrition and earnings margin, by comparing to the past performance of the acquired business, comparing management's past projections to historical performance, as well as available third-party published economic and industry data. We performed sensitivity analysis on significant assumptions, including revenue growth, customer attrition, earnings margin and discount rate.

Other information

Management is responsible for the other information. The other information comprises:

- Management's Discussion and Analysis; and
- The information, other than the consolidated financial statements and our auditor's report thereon, in the Annual Report.

Our opinion on the consolidated financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the consolidated financial statements, our responsibility is to read the other information, and in doing so, consider whether the other information is materially inconsistent with the consolidated financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated.

We obtained Management's Discussion and Analysis prior to the date of this auditor's report. If, based on the work we have performed, we conclude that there is material misstatement of this other information, we are required to report that fact in this auditor's report. We have nothing to report in this regard.

The Annual Report is expected to be made available to us after the date of the auditor's report. If based on the work we will perform on this other information, we conclude there is a material misstatement of other information, we are required to report that fact to those charged with governance.

Responsibilities of management and those charged with governance for the consolidated financial statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with IFRS, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the Group's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Group or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the Group's financial reporting process.

Auditor's responsibilities for the audit of the consolidated financial statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with Canadian general accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due
 to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence
 that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material
 misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion,
 forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are
 appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the
 Group's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based
 on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may
 cast significant doubt on the Group's ability to continue as a going concern. If we conclude that a material
 uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the
 consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our
 conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future
 events or conditions may cause the Group to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

From the matters communicated with those charged with governance, we determine those matters that were of most significance in the audit of the consolidated financial statements of the current period and are therefore the key audit matters. We describe these matters in our auditor's report unless law or regulation precludes public disclosure about the matter or when, in extremely rare circumstances, we determine that a matter should not be communicated in our report because the adverse consequences of doing so would reasonably be expected to outweigh the public interest benefits of such communication.

The engagement partner on the audit resulting in this independent auditor's report is Kwan-Ho Song.

Toronto, Canada March 20, 2022

Consolidated Statements of (Loss) Income and Comprehensive (Loss) Income (in thousands and in Canadian dollars, except share and per share amounts)

Intelligent Transportation Systems 99,973 66,7 Direct cost of revenues 23 Licensing 21,809 46,7 Intelligent Transportation Systems 66,451 39,4 Gross profit 37,435 58,6 Gross profit 37,435 58,6 Operating expenses 23 23 Depreciation of right-of-use assets 9 1,568 9 Depreciation of property, plant and equipment 10 1,583 9 Amortization of intangible assets 11 20,228 18,8 Setting, general and administrative expenses 2,372 2,2 Impairment Losses on intangible assets - - 2 Other charges 20 6,133 1,2 Cher charges 2,232 5/4 164 0 Gross profit 2,328 2 6 163 1,2 Cher charges 2,23 5/4 164 0 16 16 16 16 16 16 16 16				Year ended December 31,				
Licensing \$ 25,722 \$ 78,7 Intelligent Transportation Systems 99,973 666,1 Direct cost of revenues 23 125,695 144,5 Licensing 21,809 46,6,1 39,4 Intelligent Transportation Systems 66,451 39,4 39,4 Operating expenses 23 88,260 85,6 Operating expenses 23 21,009 46,7 Depreciation of right-of-use assets 9 1,568 9 Depreciation of right-of-use assets 11 20,228 18,8 Selling, general and administrative expenses 2,372 2,2 Impairment losses on intangible assets 11 20,228 18,8 Other charges 20 6,133 1,2 Grass profit (27,788) 7,3 1,2 Results from operations (27,788) 7,3 1,2 Finance income (1,64) (6 1,366 2,0 Other income (2,007) (1,64) 1,366 2,0	CONTINUING OPERATIONS	Note		2021		2020		
Intelligent Transportation Systems 99,973 66,2 Direct cost of revenues 23 Licensing 21,809 46,2 Intelligent Transportation Systems 66,451 39,4 Gross profit 37,435 58,6 Gross profit 37,435 58,6 Operating expenses 23 21,809 46,7 Depreciation of right-of-use assets 9 1,568 9 Depreciation of property, plant and equipment 10 1,583 9 Amortization of intangible assets 11 20,228 18,8 Setting, general and administrative expenses 2,372 2,2 Impairment losses on intangible assets - - - Other charges 20 6,133 1,2 Group exchange gain (1,216) (164) (5 Current income (2,007) (1,64) (2,07) Income tax (recovery) expense 24 1,306 2,0 Income tax (recovery) expense 24 1,306 2,0 Income tax (re	Revenues	7, 22						
Image: constraint of the second sec	Licensing		\$	25,722	\$	78,260		
Direct cost of revenues 23 Licensing 21,809 46,2 Intelligent Transportation Systems 66,451 39,4 Cross profit 37,435 58,6 Cross profit 37,435 58,6 Operating expenses 23	Intelligent Transportation Systems			99,973		66,266		
Licensing 21,809 46,2 Intelligent Transportation Systems 66,451 39,4 Gross profit 37,435 558,5 Operating expenses 23 23 Depreciation of right-of-use assets 9 1,568 9 Depreciation of right-of-use assets 9 1,568 9 Amortization of intangible assets 11 20,228 18,6 Setting, general and administrative expenses 33,339 26,6 Research and development expenses 2,372 2,2 Impairment losses on intangible assets - 2 Other charges 20 6,133 1,2 Results from operations (27,788) 7,7 Finance income (164) (2 Other income (2,007) (1,216) Other income (2,007) (1,216) Other income tax (recovery) expense 24 1,306 2,6 Income tax (recovery) expense 24 (5,852) 2,6 Income tax (recovery) expense 24 (5,852)				125,695		144,526		
Intelligent Transportation Systems 66,451 39,4 Intelligent Transportation Systems 88,260 85,6 Gross profit 37,435 58,6 Operating expenses 23	Direct cost of revenues	23						
Image: Constraint of the second sec	Licensing			21,809		46,205		
Gross profit 37,435 58,6 Operating expenses 23 - Depreciation of right-of-use assets 9 1,568 9 Depreciation of property, plant and equipment 10 1,583 9 Amortization of intangible assets 11 20,228 18,6 Selling, general and administrative expenses 33,339 26,6 Research and development expenses 2,372 2,2 Impairment losses on intangible assets - - 2 Other charges 20 6,133 1,2 Results from operations (27,788) 7,3 Finance income (164) (6 Finance expense 2,328 4 Other income (2,007) (1,6 (Loss) income before taxes (26,729) 9,2 Current income tax (recovery) expense 24 1,306 2,4 Income tax (recovery) expense (4,546) 44,4 Net (loss) income from continuing operations 5 - 14,2 Net (loss) income \$	Intelligent Transportation Systems			66,451		39,463		
Operating expenses 23 Depreciation of right-of-use assets 9 1,568 9 Depreciation of property, plant and equipment 10 1,583 9 Amortization of intangible assets 11 20,228 18,8 Selling, general and administrative expenses 33,339 26,6 Research and development expenses 2,372 2,2 Impairment losses on intangible assets - - 2 Other charges 20 6,133 1,2 Results from operations (27,788) 7,2 Finance income (164) (6 Foreign exchange gain (1,216) - Other income (26,729) 9,2 Current income tax expense 24 1,306 2,0 Income tax (recovery) expense 24 65,852) 2,6 Income tax (recovery) expense 5 - 14,2 Net (loss) income from continuing operations 5 - 14,2 Net (loss) income \$ (22,183) 4,4 Net				88,260		85,668		
Depreciation of right-of-use assets 9 1,568 9 Depreciation of property, plant and equipment 10 1,583 9 Amortization of intangible assets 11 20,228 18,6 Selling, general and administrative expenses 33,339 26,6 Research and development expenses 2,372 2,2 Impairment losses on intangible assets - - Other charges 20 6,133 1,2 Results from operations (27,788) 7,3 Finance income (164) (05 Finance income (164) (05 - - - - Results from operations (27,788) 7,3 - <	Gross profit			37,435		58,858		
Depreciation of property, plant and equipment 10 1,583 9 Amortization of intangible assets 11 20,228 188, Selling, general and administrative expenses 33,339 26,6 Research and development expenses 2,372 2,2 Impairment losses on intangible assets – 2 Other charges 20 6,133 1,2 Ges.223 51,4 65,223 51,4 Results from operations (27,788) 7,5 Finance income (164) (5 Foreign exchange gain (1,216) 0 Other income (20,07) (1,6 Current income tax expense 24 1,306 20, Deferred income tax (recovery) expense 24 1,306 20, Income from discontinuing operations 5 – 14, Net (loss) income from continuing operations 5 – 14, Net (loss) income \$ (22,183) \$ 18,6 Other comprehensive loss that may be reclassified subsequently to net (loss) income <td>Operating expenses</td> <td>23</td> <td></td> <td></td> <td></td> <td></td>	Operating expenses	23						
Amortization of intangible assets 11 20,228 18,6 Selling, general and administrative expenses 33,339 26,6 Research and development expenses 2,372 2,2 Impairment losses on intangible assets – - - Other charges 20 6,133 1,2 Results from operations (27,788) 7,2 Finance income (164) (5 Foreign exchange gain (1,216) - Other income (2,007) (1,6 Closs) income before taxes (26,729) 9,2 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (5,852) 2,8 Income tax (recovery) expense 24 4,546) 4,8 Net (loss) income from continuing operations 5 – 14,2 Net (loss) income \$ (22,183) 18,6 Other comprehensive loss that may be reclassified subsequently to net (loss) income 5 – 14,2 Net (loss) income \$ (25,620) \$ 11,2 Other comprehensive loss t	Depreciation of right-of-use assets	9		1,568		979		
Selling, general and administrative expenses 33,339 26,6 Research and development expenses 2,372 2,2 Impairment losses on intangible assets – 20 Other charges 20 6,133 1,2 Results from operations (27,788) 7,7 Finance income (164) (5 Foreign exchange gain (1,216) 0 Other income before taxes (26,729) 9,2 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 1,306 2,0 Net (loss) income from continuing operations 5 – 14,2 Net (loss) income 5 – 14,2 Other comprehensive loss that may be reclassified subsequently to net (loss) income 5 22,183) 18,6 Other comprehensive (loss) income \$ (25,620) \$ 11,2 Comprehensive (loss) income \$ (25,620) \$ 11,2 Comprehensive (loss) income \$ (25,620) \$ 11,2	Depreciation of property, plant and equipment	10		1,583		969		
Research and development expenses 2,372 2,2 Impairment losses on intangible assets - - Other charges 20 6,133 1,2 Results from operations (27,788) 7,2 Finance income (164) (5 Foreign exchange gain (1,216) - Other income (2,007) (1,6 Current income tax expense 24 1,306 2,0 Current income tax (recovery) expense 24 (5,852) 2,2 Income tax (recovery) expense 24 5,852) 2,6 Income tax (recovery) expense 24 5,852) 2,6 Income tax (recovery) expense 24 1,306 2,0 Net (loss) income from continuing operations 5 - 14,2 Net (loss) income 5 - 14,2 Other comprehensive loss that may be reclassified subsequently to net (loss) income 5 12,2 Comprehensive (loss) income \$ (25,620) \$ 11,2 (Loss) income per share 21 5 11,2 From continuing operations \$ (0,19) \$<	Amortization of intangible assets	11		20,228		18,855		
Impairment losses on intangible assets - 2 Other charges 20 6,133 1,2 G5,223 51,4 65,223 51,4 Results from operations (27,788) 7,7 Finance income (164) (5 Finance expense 2,328 4 Foreign exchange gain (1,216) 7 Other income (2,007) (1,6 (Loss) income before taxes (26,729) 9,2 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (4,546) 4,8 Income tax (recovery) expense 24 (5,852) 2,8 Income from discontinued operations 5 - 14,2 Net (loss) income 5 - 14,2 Net (loss) income \$ (22,183) 4,4 Net (loss) income 5 - 14,2 Other comprehensive loss that may be reclassified subsequently to net (loss) income: - 14,2 Foreign currency translation adjustment<	Selling, general and administrative expenses			33,339		26,868		
Other charges 20 6,133 1,2 G5,223 51,4 Results from operations (27,788) 7,3 Finance income (164) (2 Foreign exchange gain (1,216) (1,216) Other income (2,007) (1,6 (Loss) income before taxes (26,729) 9,2 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (5,852) 2,5 Income tax (recovery) expense (4,546) 4,6 Net (loss) income from continuing operations 5 - 14,2 Net (loss) income \$ (22,183) 4,4 Net (loss) income \$ (22,183) 4,4 Net (loss) income \$ (22,183) \$ Other comprehensive loss that may be reclassified subsequently to net (loss) income: - 14,2 Foreign currency translation adjustment (3,437) (7,2 Comprehensive (loss) income \$ (25,620) \$ (Loss) income per share	Research and development expenses			2,372		2,282		
65,223 51,4 Results from operations (27,788) 7,5 Finance income (164) (5 Finance expense 2,328 4 Foreign exchange gain (1,216) 0 Other income (2,007) (1,6 (Loss) income before taxes (26,729) 9,2 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (5,852) 2,6 Income tax (recovery) expense (4,546) 4,6 Net (loss) income from continuing operations (22,183) 4,4 Net (loss) income 5 - 14,2 Net (loss) income 5 - 14,2 Other comprehensive loss that may be reclassified subsequently to net (loss) income: - 14,2 Foreign currency translation adjustment (3,437) (7,5 Comprehensive (loss) income \$ (25,620) \$ 11,3 (Loss) income per share 21 - - From continuing operations \$ (0.19) \$	Impairment losses on intangible assets			—		295		
Results from operations (27,788) 7,3 Finance income (164) (5 Finance expense 2,328 4 Foreign exchange gain (1,216) 0 Other income (26,729) 9,2 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (5,852) 2,5 Income tax (recovery) expense (4,546) 4,6 Net (loss) income from continuing operations (22,183) 4,4 Net (loss) income 5 - 14,2 Other comprehensive loss that may be reclassified subsequently to net (10ss) income: - 14,2 Comprehensive (loss) income \$ (25,620) \$ 11,3 (Loss) income per share 21 21 - From continuing operations \$ (0.19) \$ 0	Other charges	20	-	-		1,227		
Finance income (164) (5 Finance expense 2,328 4 Foreign exchange gain (1,216) 6 Other income (2,007) (1,6 (Loss) income before taxes (26,729) 9,2 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (5,852) 2,8 Income from discontinued operations 5 - 14,2 Net (loss) income 5 - 14,2 Other comprehensive loss that may be reclassified subsequently to net (loss) income: (3,437) (7,5 Comprehensive (loss) income \$ (25,620) \$ 11,5 (Loss) income per share <				-		51,475		
Finance expense 2,328 2 Foreign exchange gain (1,216) Other income (2,007) (1,6 (Loss) income before taxes (26,729) 9,7 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (5,852) 2,8 Income tax (recovery) expense 24 (5,852) 2,8 Income tax (recovery) expense (4,546) 4,8 Net (loss) income from continuing operations 5 - 14,2 Net (loss) income 5 - 14,2 Net (loss) income 5 - 14,2 Net (loss) income 5 - 14,2 Other comprehensive loss that may be reclassified subsequently to net (loss) income: - 14,2 Foreign currency translation adjustment (3,437) (7,5 Comprehensive (loss) income \$ (25,620) 11,5 (Loss) income per share 21 - - From continuing operations \$ (0,19) 0	Results from operations					7,383		
Foreign exchange gain (1,216) Other income (2,007) (Loss) income before taxes (26,729) Current income tax expense 24 Deferred income tax (recovery) expense 24 Income tax (recovery) expense 24 Net (loss) income from continuing operations (22,183) Net (loss) income from discontinued operations 5 Net (loss) income \$ Other comprehensive loss that may be reclassified subsequently to net (loss) income: (3,437) Foreign currency translation adjustment (3,437) (Loss) income per share 21 From continuing operations \$ (21 \$ (0.19) \$	Finance income					(573)		
Other income (2,007) (1,6 (Loss) income before taxes (26,729) 9,2 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (5,852) 2,8 Income tax (recovery) expense 24 (5,852) 2,8 Income tax (recovery) expense (4,546) 4,8 Net (loss) income from continuing operations (22,183) 4,4 Net income from discontinued operations 5 - 14,2 Net income from discontinued operations 5 - 14,2 Net (loss) income \$ (22,183) \$ 18,6 Other comprehensive loss that may be reclassified subsequently to net (loss) income: - 14,2 Foreign currency translation adjustment (3,437) (7,5 Comprehensive (loss) income \$ (25,620) \$ 11,3 (Loss) income per share 21 21 - - From continuing operations \$ (0.19) \$ 0 <td>Finance expense</td> <td></td> <td></td> <td></td> <td></td> <td>459</td>	Finance expense					459		
(Loss) income before taxes (26,729) 9,2 Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (5,852) 2,8 Income tax (recovery) expense (4,546) 4,8 Net (loss) income from continuing operations (22,183) 4,4 Net income from discontinued operations 5 - 14,2 Net (loss) income \$ (22,183) \$ 18,6 Other comprehensive loss that may be reclassified subsequently to net (loss) income: - 14,2 Foreign currency translation adjustment (3,437) (7,2 (Loss) income \$ (25,620) \$ (Loss) income per share 21 21 From continuing operations \$ 0.19) \$	Foreign exchange gain					(88)		
Current income tax expense 24 1,306 2,0 Deferred income tax (recovery) expense 24 (5,852) 2,8 Income tax (recovery) expense (4,546) 4,8 Net (loss) income from continuing operations (22,183) 4,4 Net income from discontinued operations 5 - 14,2 Net (loss) income \$ (22,183) \$ 18,6 Other comprehensive loss that may be reclassified subsequently to net (loss) income: (3,437) (7,5 Foreign currency translation adjustment (3,437) (7,5 (Loss) income per share 21 21 From continuing operations \$ (0,19) \$ 0	Other income					(1,680)		
Deferred income tax (recovery) expense24(5,852)2,8Income tax (recovery) expense(4,546)4,8Net (loss) income from continuing operations5-14,2Net income from discontinued operations5-14,2Net (loss) income\$(22,183)\$18,6Other comprehensive loss that may be reclassified subsequently to net (loss) income: Foreign currency translation adjustment(3,437)(7,5Comprehensive (loss) income\$(25,620)\$11,3(Loss) income per share From continuing operations2121From continuing operations\$(0.19)\$0	(Loss) income before taxes					9,265		
Income tax (recovery) expense(4,546)4,8Net (loss) income from continuing operations(22,183)4,4Net income from discontinued operations5-14,2Net (loss) income\$(22,183)\$18,6Other comprehensive loss that may be reclassified subsequently to net (loss) income: Foreign currency translation adjustment(3,437)(7,5Comprehensive (loss) income\$(25,620)\$11,3(Loss) income per share From continuing operations2121From continuing operations\$(0.19)\$0	Current income tax expense	24				2,037		
Net (loss) income from continuing operations(22,183)4,4Net income from discontinued operations5-14,2Net (loss) income\$(22,183)\$18,6Other comprehensive loss that may be reclassified subsequently to net (loss) income: Foreign currency translation adjustment(3,437)(7,5)Comprehensive (loss) income\$(25,620)\$11,5)(Loss) income per share From continuing operations2121From continuing operations\$(0.19)\$0	Deferred income tax (recovery) expense	24	-			2,800		
Net income from discontinued operations5-14,2Net (loss) income\$(22,183) \$18,6Other comprehensive loss that may be reclassified subsequently to net (loss) income: Foreign currency translation adjustment(3,437)(7,3)Comprehensive (loss) income\$(25,620) \$11,3(Loss) income per share From continuing operations2111,3	Income tax (recovery) expense			(4,546)		4,837		
Net income from discontinued operations5-14,2Net (loss) income\$(22,183) \$18,6Other comprehensive loss that may be reclassified subsequently to net (loss) income: Foreign currency translation adjustment(3,437)(7,3)Comprehensive (loss) income\$(25,620) \$11,3(Loss) income per share From continuing operations2111,3	Net (loss) income from continuing operations			(22,183)		4,428		
Net (loss) income\$(22,183)\$18,6Other comprehensive loss that may be reclassified subsequently to net (loss) income: Foreign currency translation adjustment(3,437)(7,3)Comprehensive (loss) income\$(25,620)\$11,3(Loss) income per share From continuing operations2121\$(0.19)\$0	- ·	5		_		14,255		
(loss) income:(3,437)(7,3)Foreign currency translation adjustment(3,437)(7,3)Comprehensive (loss) income\$(25,620)\$(Loss) income per share21From continuing operations\$(0.19)\$			\$	(22,183)	\$	18,683		
(loss) income: Foreign currency translation adjustment(3,437)(7,3)Comprehensive (loss) income\$(25,620)\$11,3)(Loss) income per share From continuing operations2150	Other comprehensive loss that may be reclassified subsequently to ne	et						
Comprehensive (loss) income\$(25,620)\$11,3(Loss) income per share21From continuing operations\$(0.19)\$0	(loss) income:							
(Loss) income per share21From continuing operations\$ (0.19) \$ 0	Foreign currency translation adjustment					(7,355)		
From continuing operations \$ (0.19) \$ 0	Comprehensive (loss) income		\$	(25,620)	\$	11,328		
From continuing operations \$ (0.19) \$ 0	(Loss) income per share	21						
	•		\$	(0.19)	\$	0.04		
From discontinued operations — 0				_		0.12		
			\$	(0.19)	\$	0.16		
						0.04		
				_		0.12		
			\$	(0.19)	\$	0.16		

See accompanying notes to these consolidated financial statements.

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(in thousands and in Canadian dollars)

Restricted short-term investments 3,095 Accounts receivable. net 25 30,75 13,7 Unbilled revenue 7 35,926 13,5 Income taxes receivable 385 2 Inventories (net of obsolescence) 8 13,731 9,0 Prepaid expenses and deposits 5,192 8.2 Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 3 3 Right-of-use assets, net 9 7,761 3,7 Property, plant and equipment, net 10 5,694 2,7 Intangible assets, net 11 151,355 59,2 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 26,093 123,8 TOTAL ASSETS \$ 427,195 \$ 309,9 123,8 309,9 123,8 TOTAL ASSETS \$ 427,008 \$ 2,00 16 10,0 123,8 20,0 Current portion of lease liabilities 9<	As at	Note	December 31, 2021	December 31, 20)20
Short-term investments 1,851 5,5 Restricted short-term investments 3,095 3,095 Accounts receivable, net 25 30,076 13,7 Unbilled revenue 7 35,926 13,5 Income taxes receivable 385 2 Inventories (net of obsolescence) 8 13,731 900 Prepaid expenses and deposits 5,192 8,2 Non-current assets 161,102 186,1 Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 3 3,7 Property, plant and equipment, net 10 5,694 2,7 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 5 Couront tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 Current tiabilities 7 7,989 4,8 Current tiabilities 9 2,166 1,0					
Restricted short-term investments 3,095 Accounts receivable, net 25 30,776 13,7 Unbilled revenue 7 35,926 13,5 Income taxes receivable 385 2 Inventories (net of obsolescence) 8 13,731 9,0 Prepaid expenses and deposits 5,192 8.2 Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 3 3 Right-of-use assets, net 9 7,761 3,7 Propety, plant and equipment, net 10 5,694 2,7 Intangible assets, net 9 7,761 3,7 Deferred compensation asset 13 1,524 10 Deferred compensation asset 24 37,786 34,3 Goodvill 14 53,065 16,0 Current iabilities 2 700 6 Current portion of log-term debt 16 3,181 123,8 Courtes payable 700 6 10,0					
Accounts receivable, net 25 30,176 13,7 Unbilled revenue 7 35,926 13,5 Income taxes receivable 385 2 Inventories (net of obsolescence) 8 13,731 9,0 Prepaid expenses and deposits 5,192 8,2 Mon-current assets 161,102 186,1 Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 3 3 Right-of-use assets, net 9 7,761 3,7 Property, plant and equipment, net 10 5,694 2,7 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 24 Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 Liabilities 2 2,466 1,0 Current bortion of lease liabilities 9 2,166 1,0 Current portion of long-term debt 16 <				5,5	550
Unbilled revenue 7 35,926 13,5 Income taxes receivable 385 2 Inventories (net of obsolescence) 8 13,731 9,0 Prepaid expenses and deposits 5,192 82 Non-current assets 161,102 186,11 Non-current assets - 33 Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 33 3,71 Property, plant and equipment, net 10 5,694 2,7 Investment in joint venture 12 7,458 6,7 Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 TOTAL ASSETS \$ 42,008 \$ 20,00 Income taxes payable 700 6 Current bortion of lease liabilities 9 2,166 1,0 Current portion of deferred revenue 7 2,839 2,5 Long-term debt 16 3,181 26,044 26,44 <tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>					
Income taxes receivable 385 2 Inventories (net of obsolescence) 8 13,731 9,0 Prepaid expenses and deposits 5,192 8,2 Non-current assets 161,102 186,1 Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 3 3 Right-of-use assets, net 9 7,761 3,7 Property, plant and equipment, net 10 5,694 2,7 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 - Orderred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities 2 7,458 6,7 Current liabilities 9 2,166 1,0 Current portion of deferred revenue 7 7,989 4,8 Current portion of deferred revenue 7 2,839					
Inventories (net of obsolescence) 8 13,731 9,0 Prepaid expenses and deposits 5,192 8,2 Non-current assets 161,102 186,1 Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 3 3 Right-of-use assets, net 9 7,761 3,7 Property, plant and equipment, net 10 5,694 2,7 Intangible assets, net 11 151,355 59,2 Investment in joint venture 12 7,458 6,7 Deferred income tax assets 24 37,786 34,3 Goodvill 14 53,065 16,0 TOTAL ASSETS \$ 427,195 309,9 Liabilities 2 7,889 4,8 Current liabilities 15 \$ 42,008 \$ 20,00 Income taxes payable 700 6 1,0 Current portion of deferred revenue 7 7,989 4,8 Current portion of long-term debt 16	Unbilled revenue	7			
Prepaid expenses and deposits 5,192 8,2 161,102 186,1 Non-current assets 25 1,450 5 Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 3 3,7 Property, plant and equipment, net 10 5,694 2,7 Intangible assets, net 11 151,355 59,2 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 - Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 Current tiabilities - 266,093 123,8 Count taxes payable 700 6 1,0 Current portion of lease liabilities 9 2,166 1,0 Current portion of lease liabilities 9 2,166 1,0 Current portion of long-term debt 16 3,181 - Deferred revenue 7 2					264
Image: constraint of the second sec	Inventories (net of obsolescence)	8			068
Non-current assets 25 1,450 5 Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 3 37 Property, plant and equipment, net 10 5,694 2,7 Intangible assets, net 9 7,761 3,7 Property, plant and equipment, net 10 5,694 2,7 Intangible assets, net 13 1,524 Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 123,035 16,0 Zeferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 Zeferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 12,8 309,9 Liabilities 2 \$ 427,195 \$ 309,9 Current liabilities 9 2,166 1,0 1,0 12,8,8 20,0 6	Prepaid expenses and deposits				264
Accounts and other long-term receivables 25 1,450 5 Prepaid expenses and deposits - 3 Right-of-use assets, net 9 7,761 3,7 Property, plant and equipment, net 10 5,694 2,7 Intangible assets, net 11 151,355 59,2 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 - Deferred income tax assets 24 37,786 343,3 Goodwill 14 53,065 16,0 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities 2 3,786 34,3 123,8 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities 2 12,8 \$ 20,0 Income taxes payable 700 6 10,0 Current bortion of lease liabilities 9 2,166 1,0 Current portion of long-term debt 16 3,181 26,044			161,102	186,1	142
Prepaid expenses and deposits – 3 Right-of-use assets, net 9 7,761 3,7 Property, plant and equipment, net 10 5,694 2,7 Intangible assets, net 11 151,355 59,2 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 7 Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities 266,093 123,8 Current liabilities \$ 427,195 \$ 309,9 Liabilities \$ 427,195 \$ 309,9 Liabilities \$ 20,00 \$ 20,00 Current bortion of lease liabilities 9 2,166 1,0 Current portion of deferred revenue 7 7,989 4,8 Current portion of long-term debt 16 3,181 5 Deferred revenue 7 2,839 2,5 Long-term lease li	Non-current assets				
Right-of-use assets, net 9 7,761 3,7 Property, plant and equipment, net 10 5,694 2,7 Intangible assets, net 11 151,355 59,2 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 14 Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 Z66,093 123,8 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities Current liabilities 2 30,99 12,8 Current bayable and accrued liabilities 15 \$ 42,008 \$ 20,0 Income taxes payable 700 6 10 0 6 10 Current portion of long-term debt 16 3,181 1 1 1 Deferred revenue 7 2,839 2,55 2,56,26 2,7 Long-term tease liabilities 9 5,626 2,7 </td <td>Accounts and other long-term receivables</td> <td>25</td> <td>1,450</td> <td></td> <td>506</td>	Accounts and other long-term receivables	25	1,450		506
Property, plant and equipment, net 10 5,694 2,7 Intangible assets, net 11 151,355 59,2 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 16,00 Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,00 Ze66,093 123,8 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities Current liabilities 700 6 Current portion of lease liabilities 9 2,166 1,0 Current portion of lease liabilities 9 2,166 1,0 Current portion of long-term debt 16 3,181 1 Deferred revenue 7 7,989 4,8 Convertible debentures 9 5,626 2,7 Long-term debt 16 58,968 2,5 Convertible debentures 17 45,959 2,5 Derivative liability 17 9,441	Prepaid expenses and deposits		-	3	338
Intangible assets, net 11 151,355 59,2 Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 11 Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 Z66,093 123,8 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities \$ 42,008 \$ 20,00 Current liabilities 15 \$ 42,008 \$ 20,00 Income taxes payable and accrued liabilities 9 2,166 1,0 0 6 Current portion of lease liabilities 9 2,166 1,0 0 6 Current portion of cleared revenue 7 7,989 4,8 26,4 Current portion of long-term debt 16 3,181 1 1 Deferred revenue 7 2,839 2,55 2,626 2,7 Long-term debt 16 58,968	Right-of-use assets, net	9	7,761	3,7	780
Investment in joint venture 12 7,458 6,7 Deferred compensation asset 13 1,524 13 1,524 Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 Coodwill 14 53,065 16,0 266,093 123,8 12,8 TOTAL ASSETS \$ 427,195 \$ 309,9 1abilities 309,9 1abilities 309,9 1abilities 309,9 1abilities 309,9 31,1,5 309,9 30,9 30,9 31,1,5 31,1,5 31,1,5 31,1,5 31,1,5 31,1,5<	Property, plant and equipment, net	10	5,694	2,7	783
Deferred compensation asset 13 1,524 Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 Ze6,093 123,8 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities \$ 427,195 \$ 309,9 Liabilities \$ 427,195 \$ 309,9 Current liabilities \$ 427,008 \$ 20,00 Income taxes payable and accrued liabilities 15 \$ 42,008 \$ 20,00 Income taxes payable 700 6 Current portion of lease liabilities 9 2,166 1,0 Current portion of long-term debt 16 3,181 0 Current portion of long-term debt 16 3,181 0 Deferred revenue 7 2,839 2,5 Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 0 Convertible debentures 17 45,959 0 Derivative liability 13 1,	Intangible assets, net	11	151,355	59,2	261
Deferred income tax assets 24 37,786 34,3 Goodwill 14 53,065 16,0 Ze66,093 123,8 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities \$ 427,195 \$ 309,9 123,8 309,9 16 10,0	Investment in joint venture	12	7,458	6,7	704
Goodwill 14 53,065 16,0 Z66,093 123,8 TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities Current liabilities 15 \$ 42,008 \$ 20,00 Current liabilities 15 \$ 42,008 \$ 20,00 6 Current portion of lease liabilities 9 2,166 1,0 700 6 Current portion of lease liabilities 9 2,166 1,0 2,046 1,0 Current portion of lease liabilities 9 2,166 1,0 2,046 1,0 Current portion of long-term debt 16 3,181 20,00 2,5 2,6,64 2,6,4 Non-current liabilities 9 5,626 2,7 2,839 2,5 2,5 2,6,64 2,6,4 Long-term lease liabilities 9 5,626 2,7 2,8,959 2,5 2,5,55 2,5,55 2,5,55 2,6,2 2,7 2,8,959 2,5,5,55 2,6,2 2,7	Deferred compensation asset	13	1,524		—
Zé6,093 123,8 TOTAL ASSETS \$ 427,195 309,9 Liabilities Current liabilities 15 \$ 42,008 \$ 20,0 Income taxes payable and accrued liabilities 15 \$ 42,008 \$ 20,0 Income taxes payable 700 6 Current portion of lease liabilities 9 2,166 1,0 Current portion of deferred revenue 7 7,989 4,8 Current portion of long-term debt 16 3,181 Mon-current liabilities 9 5,626 2,7 Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 Convertible debentures 17 45,959 Deferred compensation liability 13 1,350 Deferred income tax liabilities 24 5,852 6,2 TOTAL LIABILITIES 186,079 38,0	Deferred income tax assets	24	37,786	34,3	346
TOTAL ASSETS \$ 427,195 \$ 309,9 Liabilities Current liabilities </td <td>Goodwill</td> <td>14</td> <td>53,065</td> <td>16,0</td> <td>093</td>	Goodwill	14	53,065	16,0	093
LiabilitiesCurrent liabilitiesAccounts payable and accrued liabilitiesAccounts payable and accrued liabilities15 \$ 42,008 \$ 20,00Income taxes payable700Current portion of lease liabilities92,1661,00Current portion of deferred revenue77,9894,8Current portion of long-term debt163,18100163,1810016172,8392,5100g-term lease liabilities95,6262,7Long-term debt1658,968Convertible debentures1745,959Derivative liability131313130,03511,5100,03511,5100,03511,5			266,093	123,8	811
Current liabilities 15 42,008 \$ 20,00 Income taxes payable 700 6 Current portion of lease liabilities 9 2,166 1,0 Current portion of deferred revenue 7 7,989 4,8 Current portion of long-term debt 16 3,181 7 Current portion of long-term debt 16 3,181 7 Non-current liabilities 9 5,626 2,7 Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 7 Convertible debentures 17 45,959 7 Deferred compensation liability 17 9,441 7 Deferred income tax liabilities 24 5,852 6,2 TOTAL LIABILITIES 186,079 38,0	TOTAL ASSETS		\$ 427,195	\$ 309,9	953
Accounts payable and accrued liabilities 15 \$ 42,008 \$ 20,0 Income taxes payable 700 6 Current portion of lease liabilities 9 2,166 1,0 Current portion of deferred revenue 7 7,989 4,8 Current portion of long-term debt 16 3,181 26,4 Non-current liabilities 56,044 26,4 Deferred revenue 7 2,839 2,5 Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 26 Convertible debentures 17 45,959 24 Deferred compensation liability 13 1,350 24 Deferred income tax liabilities 24 5,852 6,2 TOTAL LIABILITIES 186,079 38,0	Liabilities				
Income taxes payable 700 6 Current portion of lease liabilities 9 2,166 1,0 Current portion of deferred revenue 7 7,989 4,8 Current portion of long-term debt 16 3,181 - Mon-current liabilities 7 2,839 2,5 Deferred revenue 7 2,839 2,5 Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 - Convertible debentures 17 45,959 - Deferred compensation liability 13 1,350 - Deferred income tax liabilities 24 5,852 6,2 TOTAL LIABILITIES 186,079 38,0	Current liabilities				
Current portion of lease liabilities 9 2,166 1,0 Current portion of deferred revenue 7 7,989 4,8 Current portion of long-term debt 16 3,181 7 Current portion of long-term debt 16 3,181 Current portion of long-term debt 16 3,181 7 Non-current liabilities Deferred revenue 7 2,839 2,5 Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 2,7 Convertible debentures 17 45,959 4,8 Derivative liability 17 9,441 14 Deferred compensation liability 13 1,350 14,5 Deferred income tax liabilities 24 5,852 6,2 130,035 11,5 136,079 38,0	Accounts payable and accrued liabilities	15	\$ 42,008	\$ 20,0	038
Current portion of deferred revenue 7 7,989 4,8 Current portion of long-term debt 16 3,181 26,4 Non-current liabilities 56,044 26,4 Deferred revenue 7 2,839 2,5 Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 26 Convertible debentures 17 45,959 26 Deferred compensation liability 13 1,350 24 Deferred income tax liabilities 24 5,852 6,2 TOTAL LIABILITIES 186,079 38,0	Income taxes payable		700	6	631
Current portion of long-term debt 16 3,181	Current portion of lease liabilities	9	2,166	1,0	012
Second	Current portion of deferred revenue	7	7,989	4,8	800
Non-current liabilities 7 2,839 2,5 Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 2 Convertible debentures 17 45,959 2 Deferred compensation liability 17 9,441 24 5,852 6,2 Deferred income tax liabilities 24 5,852 6,2 15 TOTAL LIABILITIES 186,079 38,0 38,0 38,0	Current portion of long-term debt	16	3,181		_
Deferred revenue 7 2,839 2,5 Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 2 Convertible debentures 17 45,959 2 Derivative liability 17 9,441 2 Deferred compensation liability 13 1,350 2 Deferred income tax liabilities 24 5,852 6,2 TOTAL LIABILITIES 186,079 38,0			56,044	26,4	481
Long-term lease liabilities 9 5,626 2,7 Long-term debt 16 58,968 7 Convertible debentures 17 45,959 7 Derivative liability 17 9,441 7 Deferred compensation liability 13 1,350 7 Deferred income tax liabilities 24 5,852 6,2 TOTAL LIABILITIES 186,079 38,0	Non-current liabilities				
Long-term debt 16 58,968 Convertible debentures 17 45,959 Derivative liability 17 9,441 Deferred compensation liability 13 1,350 Deferred income tax liabilities 24 5,852 6,2 TOTAL LIABILITIES 186,079 38,0	Deferred revenue	7	2,839	2,5	573
Convertible debentures 17 45,959 Derivative liability 17 9,441 Deferred compensation liability 13 1,350 Deferred income tax liabilities 24 5,852 6,2 130,035 11,5 TOTAL LIABILITIES 186,079 38,0	Long-term lease liabilities	9	5,626	2,7	747
Derivative liability 17 9,441 Deferred compensation liability 13 1,350 Deferred income tax liabilities 24 5,852 6,2 130,035 11,5 TOTAL LIABILITIES 186,079 38,0	Long-term debt	16	58,968		—
Deferred compensation liability 13 1,350 Deferred income tax liabilities 24 5,852 6,2 130,035 11,5 TOTAL LIABILITIES 186,079 38,0	Convertible debentures	17	45,959		—
Deferred income tax liabilities 24 5,852 6,2 130,035 11,5 TOTAL LIABILITIES 186,079 38,0	Derivative liability	17	9,441		_
130,035 11,5 TOTAL LIABILITIES 186,079 38,0	Deferred compensation liability	13	1,350		_
TOTAL LIABILITIES 186,079 38,0	Deferred income tax liabilities	24	5,852	6,2	222
			130,035	11,5	542
Charabaldare' aguity	TOTAL LIABILITIES		186,079	38,0	023
Shareholders equily	Shareholders' equity				
Capital stock 544,345 547,5			544,345	547,5	537
Contributed surplus 46,2			49,937	46,2	250
•			144		581
Deficit (353,310) (325,4			(353,310)		
241,116 271,9					
TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY \$ 427,195 \$ 309,9	TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY		\$ 427,195	\$ 309,9	953

Contingent liabilities (Note 18)

See accompanying notes to these consolidated financial statements.

(in thousands and in Canadian dollars)

	Year ended December 31,		
	Note	2021	2020
Cash (used in) generated from operations			
Net (loss) income from continuing operations	\$	(22,183) \$	4,428
Non-cash items			
Stock-based compensation (recovery) expense		1,955	1,015
Depreciation of right-of-use assets	9	1,568	979
Interest expense on lease liabilities	9	_	223
Depreciation and amortization		21,811	19,824
Foreign exchange gain		(1,216)	(359)
Equity in earnings from joint venture	12	(1,924)	(1,680)
Gain on disposal of intangible assets		—	(1)
Impairment losses on intangible assets		—	295
(Gain) loss on disposal of assets		(77)	4
Deferred income tax (recovery) expense	24	(5,852)	2,800
Embedded derivatives		54	190
Change in fair value of derivative liability		(92)	_
Changes in non-cash working capital balances	28	(7,384)	7,478
Cash (used in) generated from continuing operations		(13,340)	35,196
Net cash flows attributable to discontinuing operations		—	24
Net cash (used in) generated from operating activities		(13,340)	35,220
Financing			
Dividends paid		(5,648)	(4,441)
Advances from revolving credit facilities		12,727	_
Repayment of revolving credit facilities		(12,727)	(3,654)
Net proceeds from long-term debt	16	62,926	_
Proceeds from convertible debentures	17	55,024	_
Payment of lease liabilities	9	(1,659)	(1,103)
Repayment of long-term debt		(776)	(521)
Repurchase of shares for cancellation	19	(2,065)	(10,622)
Common shares issued for cash on the exercise of options		461	830
Cash generated from (used in) continuing operations financing activities		108,263	(19,511)
Net cash flows attributable to discontinuing operations		_	32
Net cash generated from (used in) financing activities		108,263	(19,479)
Investing			
Proceeds from disposition of a subsidiary	5	_	49,400
Cash sold on disposition of a subsidiary		_	(1,825)
Proceeds from (purchase of) short-term investments		4,000	(4,054)
Purchase of restricted short-term investments		(3,025)	_
Proceeds from sale of property, plant and equipment		117	32
Purchase of property, plant and equipment	10	(1,149)	(1,255)
Acquisition of business, VDS	4	(2,780)	_
Acquisition of business, ETC	4	(151,168)	_
Dividend received from joint venture	12	1,348	477
Purchase of intangibles	11	(5,434)	(1,336)
Net cash (used in) generated from investing activities		(158,091)	41,439
Foreign exchange on cash held in foreign currencies		(1,786)	(9,350)
Net (decrease) increase in cash and cash equivalents		(64,954)	47,830
Cash and cash equivalents, beginning of		135,700	87,870
Cash and cash equivalents, end of	\$	70,746 \$	135,700

See accompanying notes to these consolidated financial statements.

Consolidated Statements of Shareholders' Equity



(in thousands and in Canadian dollars)

					Accumulated Other		Total
	Note	Capital	Stock	Contributed Surplus	Comprehensive	e Deficit	Shareholders' Equity
January 1, 2020			70,553	•			
Net income			_	—	_	18,683	18,683
Repurchase of shares for cancellation		(24,054)	13,432	-	_	(10,622)
Other comprehensive loss			—	_	(7,355)	(7,355)
Stock-based compensation expense			_	1,015	_	_	1,015
Exercise of options	19		1,006	(176)	_		830
Common shares issued from performance stock units			32	(32)	_	_	_
Dividends declared	19		—	_	_	(5,824)	(5,824)
December 31, 2020		\$ 5	47,537 \$	\$ 46,250	\$ 3,581	\$ (325,438)	\$ 271,930
January 1, 2021		\$5	47,537 \$	\$ 46,250	\$ 3,581	\$ (325,438)	\$ 271,930
Net loss			_	_	_	(22,183)	(22,183)
Repurchase of shares for cancellation	19		(4,027)	1,962	_	_	(2,065)
Other comprehensive loss			—	_	(3,437) —	(3,437)
Stock-based compensation expense			_	1,955	_	_	1,955
Exercise of stock options			667	(206)	_		461
Common shares issued from restricted stock units	19		156	(12)	_	_	144
Common shares issued from performance stock units			12	(12)	_	_	_
Dividends declared	19		—	_	_	(5,689)	(5,689)
December 31, 2021		\$5	44,345 \$	\$ 49,937	\$ 144	\$ (353,310)	\$ 241,116

See accompanying notes to these consolidated financial statements.

1. NATURE OF BUSINESS

Quarterhill Inc. ("Quarterhill" or the "Company"), formerly "Wi-LAN Inc.", is a Canadian company incorporated and domiciled in Canada. The address of the Company's registered office is 25 King St. W Suite 1101, Toronto, Ontario, M5L 2A1. The Company's shares are listed under the symbol "QTRH" on the Toronto Stock Exchange (the "TSX") and on the United States OTCQX Best Market under the symbol "QTRHF". Quarterhill is focused on the acquisition, management and growth of companies in the intelligent transportation systems ("ITS") and innovation and licensing industries, "Licensing", which correspond with the Company's operating segments identified as Intelligent Transportation Systems and Licensing. On May 15, 2020, the Company sold its investment in VIZIYA Corp., which represented the Enterprise Software segment and has been presented as a discontinued operation within the Company's consolidated financial statements ("financial statements") and further disclosed in Note 5, Discontinued Operations.

2. SIGNIFICANT ACCOUNTING POLICIES

Basis of Presentation

Statement of compliance

These consolidated financial statements of the Company were prepared in accordance with International Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board ("IASB").

These consolidated financial statements were authorized for issue by the Board of Directors on March 20, 2022.

Basis of measurement

These consolidated financial statements have been prepared on a historical cost basis, except for certain financial instruments that are measured at fair value on a recurring basis, as explained in the accounting polices below.

Basis of consolidation

These consolidated financial statements include the accounts of the Company and its wholly owned subsidiaries. The Company also holds, through one of its subsidiaries, a 50% joint venture ownership interest in Xuzhou-PAT Control Technologies Limited ("XPCT"), which is accounted for using the equity method and includes only the Company's net investment and equity in earnings of the joint venture. Consolidation of a subsidiary begins when the Company obtains control over the subsidiary and ceases when the Company ceases to control the subsidiary. All intercompany transactions and balances have been eliminated in these consolidated financial statements.

Functional and presentation currency

The consolidated financial statements are presented in Canadian dollars, which differs from the Company's functional currency of US dollars.

The Company follows the requirements as prescribed in IAS 21, "The Effects of Changes in Foreign Exchange Rates" to translate to the presentation currency. The assets and liabilities of the consolidated entity are translated to Canadian dollars at the exchange rate as at the reporting date and the income and expenses are translated to Canadian dollars at the monthly average exchange rates of the reporting period. Foreign currency differences arising from the translation are recognized in other comprehensive income ("OCI").

Estimates, assumptions, and judgments

The preparation of these consolidated financial statements in conformity with IFRS requires management to make judgments, estimates and assumptions that affect the reported amounts of revenues, expenses, assets, liabilities and the disclosure of contingent assets and liabilities at the reporting date. Uncertainty about these assumptions and estimates could result in adjustments to the carrying amount of an asset or liability or the reported amount of revenue and expense in future periods. Estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognized in the period in which the estimates are revised and in any future periods affected.

Business combinations

Purchase prices related to business combinations are allocated to the underlying acquired assets and liabilities based on their estimated fair value at the time of acquisition. The determination of fair value requires the Company to make assumptions, estimates and judgments regarding cash flow projects, valuation techniques, economic risk, weighted average cost of capital and future events. Significant judgments, estimates and assumptions are also required by management in estimating the amount of contingent consideration payable. As a result, the purchase price allocation impacts the Company's reported assets and liabilities, including the amounts allocated to intangible assets and goodwill, and future earnings due to the impacts of amortization expense and impairment testing.

Revenue recognition

Contract revenue, contract costs, contract liabilities and contract assets relating to the ITS segment are based on estimates and judgments used in determining the progress of a contract. Estimates include amounts derived to measure the progress of the contract. Progress towards completion is measured by comparing the actual costs incurred to the total estimated costs for the contract. In determining the estimated costs to complete the contracts, assumptions and estimates are required to evaluate issues related to schedule, material and labour costs, changes in contract scope and subcontractor costs. Due to the nature of project contracts, estimates may change significantly between accounting periods. Changes in estimates are reflected in the period in which the circumstances that gave rise to the change became known and affect the Company's revenue, contract assets, and contract liabilities.

Asset impairments for non-financial assets and impairment reversals

The Company's estimate of the recoverable amount for the purpose of impairment testing requires management to make assumptions regarding estimates of the present value of future cash flows including growth opportunities, economic risk, and the discount rate. These same assumptions are also used when assessing recoverability of impairments previously recognized.

Income taxes and deferred taxes

The Company is subject to income taxes in Canada and other foreign jurisdictions. The calculation of income taxes in many cases, however, requires significant judgment in interpreting tax rules and regulations. The Company's tax filings are subject to audits which could materially change the amount of current and deferred income taxes and liabilities. Additionally, estimation of the income tax provision includes evaluating the recoverability of deferred tax assets based on the assessment of the Company's ability to use the underlying future tax deductions before they expire against future taxable income. The assessment is based on existing tax laws, estimates of future profitability and tax planning strategies. If the future taxable results of the Company differ significantly from those expected, the Company would be required to increase or decrease the carrying value of the deferred tax assets with a potentially material impact on the Company's consolidated statements of financial position and consolidated statements of income and comprehensive income. The carrying amount of deferred tax assets is reassessed at each reporting period and reduced to the extent that it is no longer probable that sufficient taxable income will be available to utilize all or part of the deferred tax assets are recognized to the extent that it is more likely than not that taxable income will be available against which deferred tax assets can be utilized.

Business Combinations

The Company uses the acquisition method of accounting for business combinations. The cost of an acquisition is measured as the consideration transferred at fair value at the acquisition date. The determination of fair values for the acquired intangible assets involves the use of discounted cash flow analyses. Any contingent consideration to be transferred by the Company is recognized at fair value at the acquisition date. The Company determines that a pre-acquisition contingency is probable in nature and estimable as of the acquisition date and records its best estimate for the contingency as part of the purchase price allocation. The Company continues to gather information and evaluates any pre-acquisition contingencies throughout the measurement period and makes adjustments as necessary to the purchase price allocation. Changes in fair value of contingent consideration outside of the measurement period are measured at fair value, with changes in fair value recognized in profit or loss. Acquisition-related costs are expensed as incurred. Any excess of the

fair value of the consideration transferred over the fair value of identifiable net assets acquired, at acquisition date, is recorded as goodwill.

Foreign Currency Transactions

Monetary assets and liabilities denominated in foreign currencies are translated into the applicable functional currency of the entity at exchange rates prevailing at the consolidated statements of financial position date. Revenue and expenses are translated at the average rate for the period. The gains and losses from foreign currency denominated transactions are included in foreign exchange gain/loss in the consolidated statements of (loss) income and comprehensive (loss) income.

Cash and Cash Equivalents

Cash and cash equivalents consist of cash in banks and highly liquid investments with original terms to maturity at the date of acquisition of less than three months.

Short-Term Investments

Short-term investments are accounted for at amortized cost using the effective interest rate method. Short-term investments comprise guaranteed investment certificates with original maturities of one year or less at the date of investment and their carrying value approximates their fair value.

Restricted Short-Term Investments

Restricted short-term investments are amounts held specifically as collateral for bank guarantees that the Company has entered into for security against potential procedural costs pursuant to a court order regarding patent infringement whereby the Company is the plaintiff. As at December 31, 2021, the Company had a letter of credit of \$997 (2020 - \$nil) outstanding against the credit facility.

Unbilled Revenue

Unbilled revenue includes unbilled amounts typically resulting from sales under long-term contracts when the cost-to-cost method of revenue recognition is utilized and revenue recognized exceeds the amount billed to the customer accounted for under IFRS 15, "Revenue from Contracts with Customers" ("IFRS 15"). At any given period-end, a large portion of the balance in this account represents the accumulation of labour, materials and other costs that have not been billed due to timing, whereby the accumulation of each month's costs and earnings is administratively billed in subsequent months. Also included in the account are amounts that will become billable according to contract terms, which usually require the consideration of the passage of time, achievement of milestones or completion of the project.

Inventories

Inventories are measured at the lower of cost or net realizable value. The cost of inventories is determined on the weighted average basis. Costs comprises all costs of purchase, costs of conversion and other costs incurred in bringing the inventories to their present location and condition.

Property Plant and Equipment

Property, plant and equipment are measured at cost less accumulated depreciation and accumulated impairment losses, if any. Costs include the purchase price and the directly attributable costs required to bring the asset to the condition necessary for the asset to be capable of operating in the manner intended by management. When components of an item of property, plant and equipment have different useful lives, they are accounted for as separate items of property, plant and equipment and depreciated accordingly. The cost of replacing or repairing a component of an item is recognized in the carrying amount of the item if it is probable that future economic benefits will occur and the cost can be measured reliably. The costs of routine maintenance are recognized in profit or loss as incurred. Depreciation is calculated on the straight-line basis over the estimated useful lives of the assets as follows:

Leasehold improvements	term of the lease
Computer equipment and software	3 years
Furniture and fixtures	5 years
Machinery and equipment	4-7 years
Building	20 years

The Company reviews the residual value, useful lives and depreciation methods used on an annual basis and, where revisions are required, the Company applies such changes in estimates on a prospective basis.

Intangible Assets

Intangible assets consist of finite-lived patents, developed software, customer relationships, non-competition agreements, trade name and backlog.

Patents include patents and patent rights (hereinafter, collectively "patents"), are purchased separately, and are carried at cost less accumulated amortization and impairments.

Developed software, customer relationships, and brand were acquired through business acquisitions and are recognized at fair value as determined on the acquisition date less accumulated amortization and impairments.

Fair value of the developed software and brand is determined based on the present value of expected future cash flows.

Customer relationships represent acquired customer relationships with customers that are capable of being separated from the acquired entity and being sold, transferred, licensed, rented or exchanged. These customer relationships are initially recorded at their fair value based on the present value of expected future cash flows.

Amortization is calculated on a straight-line basis over the estimated useful lives of the intangible assets as follows:

Patents	up to 20 years
Developed software	5-15 years
Customer relationships and backlog	7-15 years
Trade name	7-12 years
Non-competition agreements	term of agreement

The Company continually evaluates the remaining estimated useful life of its finite intangible assets to determine whether events and circumstances warrant a revision to the remaining period of amortization and are accounted for prospectively from the date of the change.

Impairment of Non-Financial Assets

The carrying amounts of non-financial assets, excluding inventories, deferred income tax assets and contract assets, are reviewed for impairment at each reporting date, or whenever events or changes in circumstances indicate the carrying amounts may not be recoverable. If there are indicators of impairment, a review is undertaken to determine whether the carrying amounts are in excess of their recoverable amounts. Goodwill is tested at least annually, at year-end, for impairment. For the purpose of impairment testing, assets that cannot be tested individually are grouped together into the smallest group of assets that generates cash inflows, the cash-generating unit ("CGU"), from continuing use that are largely independent of the cash inflows of other assets or groups of assets.

The recoverable amount of an asset or CGU is the greater of its value in use and its fair value less costs to sell. The value in use is determined by the cash flows expected to arise from the CGU discounted using a pre-tax

discount rate that reflects the current market assessments of the time value of money and asset-specific risk. In determining fair value less costs of disposal, an appropriate valuation model is used. These calculations are corroborated by the use of valuation multiples, quoted share prices and other available fair value indicators. An impairment loss is recognized if the carrying amount of an asset or its CGU exceeds its estimated recoverable amount. Impairment losses are recognized in profit and loss. Impairment losses recognized in respect of CGUs are allocated first to reduce the carrying amount of any goodwill allocated to the CGUs, and then to reduce the carrying amount of the other assets in the CGUs.

For non-financial assets that have been previously impaired, excluding goodwill, an assessment is made at each reporting date as to whether there is any indication that previous impairment losses may no longer exist or may have decreased. If such an indication exists, the Company estimates the recoverable amount of the asset or CGU. A previously recognized impairment loss is reversed only if there has been a change in the assumptions used to determine the asset's recoverable amount since the impairment loss was recognized. The impairment loss to be reversed in the consolidated statements of (loss) income and comprehensive (loss) income is limited to the recoverable amount, but not beyond the carrying amount, net of depreciation or amortization, that would have arisen if the prior impairment loss had not been recognized.

Investment in Joint Venture

The Company's joint arrangement has been determined to be a joint venture based on the Company's assessment of its contractual rights and obligations. Joint ventures are accounted for using the equity method whereby the investments are initially recorded at cost. The investment is increased or decreased to reflect the Company's proportionate share of the post-acquisition earnings or losses and equity movements of the investee, after adjustments to align the accounting policies with those of the Company. When the Company's share of losses exceeds its interest in an equity-accounted investee, the carrying amount of that interest, including any long-term investments, is reduced to nil, and the recognition of further losses is discontinued except to the extent that the Company has an obligation or has made payments on behalf of the investee.

Deferred Compensation Asset and Liability

The Company recognizes a deferred compensation plan that enables upper level management and executives to defer compensation until retirement. The Company funds these deferred compensation liabilities by making contributions to a trust invested in various mutual funds, presented as deferred compensation assets on the financial statements.

Goodwill

Goodwill represents the excess of the cost of an acquisition over the fair value of the Company's share of the net identifiable assets of the acquired business at the date of acquisition. Goodwill is presented separately on the consolidated statement of financial position and is subsequently measured at cost less any accumulated impairment losses.

Revenue Recognition

The Company recognizes revenue, at an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services, when control of the promised goods or services is transferred to the customer. Revenue represents the amount that the Company expects to receive for products and services in its contracts with customers, net of sales taxes. The cumulative effects of revisions to contract revenues and estimated completion costs are recorded in the accounting period in which the amounts become evident and can be reasonably estimated. These revisions can include such items as the effects of change orders and claims, warranty claims, liquidated damages or other contractual penalties and adjustments for contract closeout settlements. The Company reports revenue as either Licensing or Intelligent Transportation Systems, which corresponds with its operating segments. The following paragraphs describe the specific revenue recognition policies for each of the Company's significant types of revenue by segment.

Licensing segment

<u>Right-to-use</u>

Patent licenses are considered a promise to provide the right to use specific intellectual property to the customer. Revenue from contracts containing no sales or usage-based royalties is recognized when the patent right is effective, with the exception of certain instances where licensing rights applicable to future portfolio licenses are granted. In these arrangements, revenue on these specific rights would be recognized over the term of the applicable rights. Payment is generally either due immediately or within 30 days.

Patent license revenue earned in the Licensing segment is considered a promise to provide the right to use patented technologies, is recognized when the patent right is effective, and is generally one-time in nature, which may result in significant fluctuations in revenue, gross profit and net income or loss year over year.

Sales or usage-based royalty

Revenue from contracts containing a sales or usage-based royalty is recognized only when the associated sale or usage occurs or the performance obligation to which the royalty has been allocated has been satisfied. Customers generally report their royalty obligations one quarter in arrears and, accordingly, the Company estimates the expected royalties to be reported for an accounting period, with an adjustment for actual royalties reported in the following financial reporting period. Payment is due upon submission of the royalty report.

Intelligent Transportation Systems segment

Contracted projects

The majority of sales of integrated systems are delivered as contracted projects with contract terms of less than one year to more than five years, and the Company typically transfers control of goods or services, and satisfies performance obligations over time and therefore recognizes revenue over time as these performance obligations are satisfied. This continuous transfer of control to the customer is often supported by the customer's physical possession or legal title to the work in process, contractual clauses that provide the Company with a present right to payment for work performed to date plus a reasonable profit in the event a customer unilaterally terminates the contract for convenience, and as the customer simultaneously receives and consumes the benefits provided by the Company's performance. The Company's contract types include fixed price and time and materials contracts. The transaction price includes amounts expected to be received in exchange for the goods or services plus any contract amendments that are expected to be received. Payment terms are based on completion of milestones throughout the project life for fixed price contracts and monthly for time and materials projects.

Many of these projects have distinct performance obligations typically encompassing one or more of installation, maintenance and warranty. A contract's transaction price is allocated to each distinct performance obligation using the best estimate of the standalone selling price of each distinct good or service in the contract. The primary method used to estimate standalone selling price is the expected cost plus margin approach.

Installations

Revenue for the installation obligations of fixed price contracts is recognized over time using the input method based on costs incurred relative to the total expected costs to complete each project. Control is transferred to the customer over time as the customer gains physical possession or legal title to the work in process, as well as contractual clauses that provide the Company with a present right to payment for work performed to date plus a reasonable profit in the event a customer unilaterally terminates the contract for convenience and correspondingly revenue earned from the contract is recognized over time based on the extent of progress towards complete each project. The Company reviews and updates the contract-related estimates regularly. Determining the contract costs and estimates to complete requires significant judgment. Adjustments are recognized in profit on contracts under the cumulative catch-up method in the period the adjustment is identified. If the Company anticipates the estimated remaining costs to completion will exceed the value allocated to the performance obligation, the resulting loss is recognized immediately.

Maintenance

The maintenance obligation of contracts with multiple performance obligations is recognized over the term of the contract as control is transferred to the customer as the customer simultaneously receives and consumes the benefits provided by the Company's performance. Stand-alone maintenance service contracts are typically time and materials, but some are fixed price, for which revenue is recognized in the same manner as fixed price installations, over time using the input method based on costs incurred relative to the total expected costs to complete each project. For time and materials contracts, labour and material rates are established within the contract. Revenues from time and materials contracts are recognized as control is transferred to the customer based on cost plus margin. These services are billed on a monthly basis and collected shortly thereafter.

Warranty

Revenue from warranty obligations is recognized over time based on time lapsed as this best represents the value transferred to the customer.

Product sales

Product sales revenue is recognized when control transfers under the term of the enforceable contract. Customers are billed when transfer of control occurs and payments are typically due within 30 days.

Financial Instruments

Recognition and initial measurement

Financial assets and liabilities, with the exception of accounts receivable and unbilled revenues that do not have a significant financing component, are initially recognized at fair value plus or minus directly attributable transaction costs as appropriate, except for financial assets at fair value through profit and loss ("FVTPL"), for which transaction costs are expensed. Accounts receivable and unbilled revenues that do not have a significant financing component are initially measured at the transaction price determined in accordance with IFRS 15. Accounts receivable are recognized on the date that they originate, and all other financial instruments are recognized when the Company becomes party to the contractual provisions of the instrument. The Company considers whether a contract contains an embedded derivative when the Company first becomes party to it. Embedded derivatives are separately accounted for from the host contract if the host contract is not measured at FVTPL and when the economic characteristics and risks are not closely related to those of the host contract. Reassessment of the fair value of derivatives occurs each reporting period, with the changes in fair value recognized through profit or loss.

Financial assets

The classification of financial assets depends on the business model for managing the financial assets and the associated contractual cash flows. A financial asset is measured at amortized cost if it is held within a business model whose objective is to hold assets to collect contractual cash flows, and its contractual terms give rise on specified dates to cash flows that are solely payments of principal and interest on the principal amount outstanding.

The Company's financial assets consist of cash and cash equivalents, short-term investments, restricted shortterm investments, accounts receivable, unbilled revenue, and deferred compensation asset: all are classified as amortized cost.

Financial liabilities

The Company determines the classification of its financial liabilities at initial recognition. The Company's financial liabilities consist of accounts payable and accrued liabilities, convertible debentures, long-term debt and deferred compensation liabilities, which are classified as amortized cost.

Subsequent measurement

Subsequent to initial recognition, financial assets and liabilities classified as amortized cost are measured using the effective interest method, less, in the case of financial assets, any impairment. Interest income and expense, foreign exchange gains and losses, impairment and any gain or loss on derecognition are recognized in profit

and loss. Contingent liabilities are reported at fair value and the gain or loss recognized in profit and loss as an other charge.

Derecognition

The Company derecognizes a financial asset when the rights to receive cash flows from the financial asset have expired or have been transferred and the Company has transferred substantially all risks and rewards of ownership. The Company derecognizes a financial liability when the contractual obligations are discharged, canceled or expire.

Derivative instruments

The Company may use derivative financial instruments to reduce exposure to fluctuation in foreign currency exchange rates. The Company may enter into foreign exchange contracts to hedge anticipated cash flows denominated in a foreign currency. Embedded derivatives are separated from the host contract and accounted for separately if the host contract is not a financial asset or liability and certain criteria are met. Derivative assets and liabilities are remeasured at each subsequent reporting period with any gains or losses arising from changes in fair value recorded within profit or loss.

The Company has elected not to apply hedge accounting to derivative contracts; as such, these derivative financial instruments are recorded at fair value upon recognition and on a recurring basis, with subsequent changes in fair value recorded in profit or loss during the period of change. Derivatives are reported as other current assets when they have a positive fair value and as other current liabilities when they have a negative fair value.

Fair Value Measurement of Financial Instruments

The Company uses various valuation techniques and assumptions when measuring fair value of its financial assets and financial liabilities. The Company utilizes market data or assumptions that market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique.

The Company's fair value hierarchy prioritizes the inputs to valuation techniques used to measure fair value. The three levels of the fair value hierarchy are:

Level 1 – Inputs are based on quoted prices (unadjusted) in active markets that are accessible at the reporting date for identical assets or liabilities;

Level 2 – Inputs are based on quoted prices included in Level 1 that are observable for the asset or liability either directly (i.e., prices) or indirectly (i.e., derived from prices); and

Level 3 – Inputs are based on prices or valuation techniques that are both unobservable and significant to the overall fair value measurement.

The following methods and assumptions were used to estimate the fair value of each class of financial instruments for which it is practicable to estimate that value.

Derivative financial instruments

The fair value of sales contract embedded derivatives is measured using a market approach, based on the difference between the quoted forward exchange rate as of the contract date and quoted forward exchange rate as of the reporting date. The fair value of forward exchange contracts is determined using the quoted forward exchange rates at the reporting date. The fair value of derivative liabilities related to the convertible debentures is measured using the Black-Scholes option pricing model.

Contingent liabilities

Contingent liabilities are carried at fair value, which is calculated using management estimates or, where appropriate, a Monte Carlo simulation model.

The carrying amount of the Company's other financial assets and liabilities, including cash and cash equivalents, short-term investments, restricted short-term investments, accounts receivable, unbilled revenue, accounts payable and accrued liabilities, and convertible debentures, approximates their fair value due to the short-term maturity of these items. The fair value of the bank indebtedness and long-term debt approximates the carrying amount since these debt instruments have floating interest rates.

Impairment of Non-Derivative Financial Assets

The Company applies the IFRS 9, "Financial Instruments" simplified approach to measuring expected credit losses, which uses a lifetime expected loss allowance for all accounts receivable and contract assets. Lifetime expected credit losses are estimated based on factors such as the Company's past experience of collecting payments, observable changes in national or local economic conditions that correlate with default on receivables, and financial condition of the borrower. Financial assets are written off when there is no reasonable expectation of recovery.

Research and Development

Research costs are included in the consolidated statements of (loss) income and comprehensive (loss) income in the periods in which they are incurred, net of earned investment tax credits. Software development costs are deferred and amortized when technological feasibility has been established, or otherwise are expensed as incurred.

Warranties

The Company records the estimated costs of product warranties at the time revenue is recognized. Warranty obligation arises from the Company having to replace goods and/or services that have failed to meet required customer specifications due to breakdown or error related to product or workmanship. The Company's warranty obligations are affected by product failure rates, differences in warranty periods, regulatory developments with respect to warranty obligations in the countries in which the Company carries on business, freight expense and material usage and other related repair costs.

The Company's estimates of costs are based upon historical experience, expectations of future return rates and unit warranty repair costs. If the Company experiences increased or decreased warranty activity or increased or decreased costs associated with servicing those obligations, revisions to the estimated warranty liability are recognized in the reporting period when such revisions are made.

Financing Costs

Financing costs are composed of borrowing costs related to short- and long-term debt and the unwinding of the discount on provisions.

Leases

At inception of a contract, the Company assesses whether a contract is, or contains, a lease based on whether the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration. The Company recognizes a ROU asset and a lease liability at the lease commencement date, which is the date the leased asset is available for use. The Company has elected not to separate lease and nonlease components and instead treats them all as lease payments and a single lease component.

The lease liability is initially measured at the present value of the lease payments that are not paid at the commencement date, discounted using the interest rate implicit in the lease or, if that rate cannot be readily determined, the Company's incremental borrowing rate. The incremental borrowing rate is the rate that the Company would have to pay to borrow the funds necessary to obtain an asset of similar value to the ROU asset in a similar economic environment with similar terms, security and conditions. The lease term includes periods covered by an option to extend if the Company is reasonably certain to exercise that option. The lease liability is measured at amortized cost using the effective interest method. The lease liability is remeasured when there is a change in future lease payments arising from a change in the Company's estimate of the amount expected to be payable under a residual value guarantee, or if the Company changes its assessment of whether it will

exercise a purchase, extension or termination option. When the lease liability is remeasured, a corresponding adjustment is made to the carrying amount of the ROU asset unless it has been reduced to zero. Any further reduction in the lease liability is then recognized in profit or loss.

The ROU asset is initially measured based on the initial lease liability adjusted for any lease payments made at or before the commencement date, plus any initial direct costs incurred and an estimate of costs to dismantle and remove the underlying asset or to restore the underlying asset or the site on which it is located, less any lease incentives received. The ROU assets are depreciated over the shorter of the lease term and the useful life of the underlying asset using the straight-line method as this most closely reflects the expected pattern of the consumption of the future economic benefits. In addition, the ROU asset can be periodically reduced by impairment losses, if any, and adjusted for certain remeasurements of the lease liability.

A lease modification will be accounted for as a separate lease if the modification increases the scope of the lease and if the consideration for the lease increases by an amount commensurate with the stand-alone price for the increase in scope. For a modification that is not a separate lease or where the increase in consideration is not commensurate, at the effective date of the lease modification, the Company will remeasure the lease liability using the Company's incremental borrowing rate on the date of modification, when the rate implicit to the lease is not readily available, with a corresponding adjustment to the ROU asset.

The lease payments associated with short-term and low-value leases are recognized as an expense on a straight-line basis over the lease term as the Company has elected the relevant practical expedients. Short-term leases are those with a lease term of 12 months or less. Low-value asset leases are those leases where the asset being leased when new has a value of less than US\$5.

Segment Reporting

Operating segments are reported in a manner consistent with the internal reporting provided to the chief operating decision-maker ("CODM"). The CODM is the person or persons who are responsible for allocating resources and assessing performance of the operating segments. The CODM has been identified as the Chief Executive Officer.

Income Taxes, Deferred Taxes and Investment Tax Credits

Income taxes comprise current and deferred income taxes. Income taxes are recognized in the consolidated statements of (loss) income and comprehensive (loss) income, except to the extent that they relate to items recognized directly in equity or in OCI, in which case the income taxes are also recognized in equity or in OCI.

Current income taxes are the expected taxes payable on the taxable income for the year, using income tax rates enacted or substantively enacted, at the end of the reporting period, and any adjustment to income taxes payable in respect of previous years.

Deferred income tax assets and liabilities are determined based on the difference between the accounting and tax bases of the assets and liabilities and measured using the enacted tax rates that are expected to be in effect when the differences are estimated to be reversed. The realization of deferred income tax assets is dependent upon the generation of sufficient future taxable income during the periods prior to the expiration of the associated tax attributes. The carrying amount of deferred tax assets is reviewed at each reporting date and reduced to the extent that it is no longer probable that sufficient taxable profit will be available to allow all or part of the deferred tax asset to be used. Unrecognized deferred tax assets are reassessed at each reporting date and are recognized to the extent that it has become probable that future taxable profits will allow the deferred tax asset to be recovered.

The Company is also engaged in scientific research and experimental development giving rise to investment tax credits that may be available to reduce future taxes payable in certain jurisdictions. In calculating income taxes and investment tax credits, consideration is given to factors such as current and future tax rates in the different jurisdictions, non-deductible expenses, qualifying expenditures and changes in tax law. In addition, management makes judgments on the ability of the Company to realize these investment tax credits reported

as assets based on its estimations of amounts and timing of future taxable income and future cash flows in the related jurisdiction.

Discontinued Operations

A discontinued operation is a component of the Company's business, the operations and cash flows of which can be clearly distinguished from the rest of the Company, and either (a) represents a separate major line of business or geographic area of operations; (b) is part of a single coordinated plan to dispose of a separate major line of business or geographic area of operations; or (c) is a subsidiary acquired exclusively with a view to resale. Classification as a discontinued operation occurs at the earlier of disposal or when the operation meets the criteria to be classified as held for sale.

Discontinued operations are presented separately from continuing operations in the consolidated statements of (loss) income and comprehensive (loss) income and consolidated statements of cash flows for all periods presented.

Government Grants

The Company recognizes government grants when there is reasonable assurance that the Company will comply with the corresponding conditions attached to the grant and that the grant will be received.

Government grants are recognized in the consolidated statements of (loss) income and comprehensive (loss) income on a systematic basis over the periods in which the Company recognizes as expenses the related costs for which the grants are intended to compensate and are deducted from the related expense.

3. FUTURE ACCOUNTING PRONOUNCEMENTS

Listed below are the standards, amendments and interpretations that the Company reasonably expects to be applicable at a future date and intends to adopt when they become effective.

Classification of Liabilities as Current or Non-Current (Amendments to IAS 1)

In January 2020, the IASB issued amendments to IAS 1, "Presentation of Financial Statements" ("IAS 1") to clarify that the classification of liabilities as current or non-current should be based on rights that are in existence at the end of the reporting period and is unaffected by expectations about whether or not an entity will exercise their right to defer settlement of a liability. The amendments further clarify requirements for classifying liabilities an entity will or may settle by issuing its own equity instruments. These amendments are effective for annual reporting periods beginning on or after January 1, 2023, with earlier application permitted. The adoption of these amendments is not expected to have a significant impact on the financial statements.

Disclosure of Accounting Policies (Amendments to IAS 1 and IFRS Practice Statement 2)

In February 2021, the IASB issued *Disclosure of Accounting Policies (Amendments to IAS 1 and IFRS Practice Statement 2)*. The amendments provide guidance to help entities disclose their material (previously "significant") accounting. The amendments are effective for annual reporting periods beginning on or after January 1, 2023. Earlier application is permitted. The Company is currently assessing the impact of these amendments.

Definition of Accounting Estimates (Amendments to IAS 8)

In February 2021, the IASB issued *Definition of Accounting Estimates (Amendments to IAS 8 - Accounting Policies, Changes in Accounting Estimates and Errors).* The amendments define accounting estimates and clarify the distinction between changes in accounting estimates and changes in accounting policies. The amendments are effective for annual reporting periods beginning on or after January 1, 2023. Earlier application is permitted. The Company is currently assessing the impact of these amendments.

3. FUTURE ACCOUNTING PRONOUNCEMENTS (continued)

Fees in the '10 per cent' Test for Derecognition of Financial Liabilities (Amendments to IFRS 9)

As part of its 2018-2020 annual improvements to the IFRS standards process, the IASB issued an amendment to IFRS 9. The amendment clarifies the types of fees that an entity includes when assessing whether the terms of a new or modified financial liability are substantially different from the terms of the original financial liability. The amendment specifies that only fees paid or received between the borrower and the lender, including fees paid or received by either the borrower or lender on the other's behalf, should be included. An entity applies the amendment to financial liabilities that are modified or exchanged on or after the beginning of the annual reporting period in which the entity first applies the amendment. The amendments to financial liabilities that are modified or exchanged on or after the beginning of the annual reporting period in which the entity first applies the amendment. The amendments to financial liabilities that are modified or exchanged on or after the beginning of the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entity first applies the annual reporting period in which the entit

4. BUSINESS COMBINATIONS

Acquisitions are accounted for using the acquisition method of accounting and the financial statements include the acquisition results since the respective acquisition dates.

On January 5, 2021, the Company's wholly owned subsidiary, International Road Dynamics Inc. ("IRD"), acquired 100% of the issued and outstanding shares of Sensor Line – Gesellschaft für Optoelektronische Sensoren mbH ("Sensor Line"), a German ITS provider of highly regarded fiber optic traffic sensors for road and rail markets. On April 28, 2021, IRD acquired 100% of the issued and outstanding shares of VDS Verkehrstechnik GmbH ("VDS"), a German ITS provider of high-precision monitoring devices. Both Sensor Line and VDS have been integrated into IRD and form part of the ITS segment. On September 1, 2021, the Company acquired 100% of the issued and outstanding equity of Richardson, Texas-based Electronic Transaction Consultants, LLC ("ETC") by acquiring all the issued and outstanding shares of its parent holding companies. ETC is a leader in providing tolling and mobility systems to tolling authorities across the United States. The purchase of these acquisitions broadens the Company's product and services suite in the ITS industry and expands its geographic footprint further into the European and North American markets. The transactions, valued at \$5,933 (€3,800), \$2,780 (€1,837) and \$151,313 (USD \$120,023) for Sensor Line, VDS and ETC, respectively, were financed through the Company's cash reserves and debt financing.

4. BUSINESS COMBINATIONS (continued)

The following tables summarize the fair value allocations of identifiable assets acquired and liabilities assumed as part of the acquisitions on each closing date:

Cash consideration paid	\$ 5,933
Identifiable net assets acquired at fair value:	
Accounts receivable	\$ 793
Inventories	547
Prepaid expenses and deposits	103
Property, plant and equipment	151
Intangible assets	
Customer relationships	2,322
Developed software	854
Goodwill	2,563
Deferred income tax assets	36
Bank indebtedness	(142)
Accounts payable and accrued liabilities	(295)
Income taxes payable	(46)
Deferred income tax liabilities	(953)
Total identifiable net assets at fair value	\$ 5,933
VDS Cash consideration paid	\$ 2,780
Identifiable net assets acquired at fair value:	454
Accounts receivable	\$ 154
Inventories	674
Prepaid expenses and deposits	16
Right-of-use assets	600
Property, plant and equipment	271
Intangible assets	
Customer relationships	746
Developed software	640
Goodwill	995
Accounts payable and accrued liabilities	(316)
Lease liabilities	(600)
Deferred income tax liabilities	(400)
	\$ 2,780

4. BUSINESS COMBINATIONS (continued)

Cash consideration paid	\$ 151,313
Identifiable net assets acquired at fair value:	
Cash and cash equivalents	\$ 145
Accounts receivable	9,589
Unbilled revenue	9,715
Prepaid expenses and deposits	2,665
Accounts and other long-term receivables	218
Deferred compensation asset	1,413
Right-of-use assets	4,201
Property, plant and equipment	2,974
Intangible assets	
Customer relationships	50,680
Developed software	34,039
Trade name and other	16,137
Non-competition agreement	1,135
Goodwill	33,379
Accounts payable and accrued liabilities	(8,452)
Deferred revenue	(291)
Lease liabilities	(4,202)
Deferred compensation liability	(1,257)
Deferred income tax liabilities	 (775)
Total identifiable net assets at fair value	\$ 151,313

The fair values of the assets and liabilities associated with these acquisitions were finalized by the date these financial statements were approved by the Board of Directors on March 20, 2022.

The goodwill recognized is attributable to intangible assets that do not qualify for separate recognition and may include expected synergies arising from the combined operations and the Company's other existing businesses within the ITS segment, expected growth in the markets that they serve, and the strength of the assembled workforce in each. Only the goodwill from the ETC acquisition is deductible for tax purposes.

For the year ended December 31, 2021, sales and net loss relating to the Sensor Line acquisition were \$3,539 and \$25. Due to the timing of the acquisition of Sensor Line, these amounts are the same as if the acquisition had occurred at the beginning of the year. Sales and net income relating to the VDS acquisition were \$2,314 and \$98 for the year ended December 31, 2021. If the acquisition of VDS had been completed as of January 1, 2021, the Company estimates that this subsidiary's revenue would have been \$2,899 and its net loss would have been \$178 for the year ended December 31, 2021. The sales and net income of ETC for the year ended December 31, 2021. The sales and net income of ETC for the year ended December 31, 2021. The sales and net income of ETC for the year ended December 31, 2021. The sales and net income of ETC for the year ended December 31, 2021. The sales and net income of ETC for the year ended December 31, 2021. The sales and net income of ETC for the year ended December 31, 2021. The sales and net income of ETC for the year ended December 31, 2021. The sales and net income of ETC for the year ended December 31, 2021. The sales and net income of ETC for the year ended December 31, 2021. Sales and net loss are estimated to have been \$91,440 and \$5,473 for the year ended December 31, 2021.

5. DISCONTINUED OPERATIONS

On May 15, 2020, the Company sold its investment in VIZIYA Corp. and its related entities (collectively, "VIZIYA") for \$49,400. VIZIYA was acquired in May 2017 and represented the Company's former Enterprise Software segment. The Company's results for the prior fiscal period reported throughout these consolidated financial statements have been adjusted to reflect continuing operational results and figures with respect to these discontinued operations.

The results of the discontinued operations are presented below for the following periods:

	Y	Year ended December 31,				
	20	21	2020			
Revenues	\$	<u> </u>	6,132			
Direct cost of revenues		—	1,211			
Gross profit		—	4,921			
Operating expenses		—	7,309			
Results from operations		—	(2,388)			
Other expenses		_	104			
Income tax recovery		—	(593)			
Loss from discontinued operations		—	(1,899)			
Gain on disposal, before tax		_	17,713			
Deferred income tax expense		—	1,559			
Net income from discontinued operations	\$	— \$	14,255			

6. FINANCIAL INSTRUMENTS

Derivatives include the embedded derivative portion of the unearned revenue of US dollar denominated sales contracts in the Company's Canadian, Chilean and Mexican subsidiaries. The fair value of sales contract embedded derivatives is measured using a market approach, based on the difference between quoted forward exchange rates as of the contract date and quoted forward exchange rates as of the reporting date. Derivatives also include the derivative liability portion of convertible debentures and are measure using the Black-Scholes pricing model. Contingent liabilities are carried at fair value, which is calculated using management estimates or, where appropriate, a Monte Carlo simulation model. The fair value of convertible debentures and long-term debt approximates carrying value as these instruments bear interest at market rates. The carrying amount of the Company's other financial assets and liabilities, including cash and cash equivalents, short-term investments, restricted short-term investments, accounts receivable, unbilled revenue and accounts payable and accrued liabilities, approximates their fair value due to the short-term maturity of these items.

Inputs used to calculate the fair value of derivative and convertible debentures financial instruments are classified as Level 2 inputs, inputs used to calculate contingent liabilities are classified as Level 3 inputs, and inputs for all other financial instruments for which fair value approximates carrying value are classified as Level 1 inputs.

7. UNBILLED REVENUE AND DEFERRED REVENUE

Significant changes in unbilled revenue and deferred revenue balances during the year ended December 31, 2021 are as follows:

As at	Decen	nber 31, 2021	Decembe	er 31, 2020	\$ Change
Unbilled revenue	\$	35,926	\$	13,549	\$ 22,377
Deferred revenue - current		(7,989)		(4,800)	(3,189)
Deferred revenue - non-current		(2,839)		(2,573)	(266)
Net contract assets	\$	25,098	\$	6,176	\$ 18,922

Revenue recognized for the year ended December 31, 2021 that was included in deferred revenue at the beginning of the year was \$3,129 (2020 - \$5,784).

8. INVENTORIES

As at	December 31, 2	021	Decer	mber 31, 2020
Raw materials	\$ 2,	150	\$	1,392
Original equipment manufacturer materials	5,	528		4,001
Work in process	1,	564		1,571
Finished goods	4,	489		2,104
	\$ 13,	731	\$	9,068

During the year, inventories expensed within direct cost of revenues were \$24,230 (2020 - \$18,126). Writedowns of inventory that were included in direct cost of revenues for the year were \$230 (2020 - \$169). Reversals of write-downs recognized during the year were \$125 (2020 - \$101).

9. RIGHT-OF-USE ASSETS AND LIABILITIES

The Company has leases for corporate offices, production facilities, vehicles and equipment used in operations. These leases have remaining lease terms ranging from 3 months to 7 years, some of which include options to extend the leases for up to 14 years or to terminate the lease with notice periods of 120 days to 6 months or at predetermined dates as specified within the lease contract. The Company has classified the assets related to these leases as right-of-use assets and the liabilities associated with the future lease payments under these leases as lease liabilities.

The following table provides details of changes in the Company's right-of-use assets:

	Note	Buildings	Vehicles and Operations Equipment	Total
Cost				
Balance, January 1, 2020	\$	5,854	\$ 32	\$ 5,886
Additions		407	_	407
Disposals		(348)	_	(348)
Foreign currency translation		(14)	(1)	(15)
Balance, December 31, 2020		5,899	31	5,930
Additions		909	_	909
Acquisitions through business combinations	4	4,375	426	4,801
Disposals		(131)	_	(131)
Foreign currency translation		(118)	(20)	(138)
Balance, December 31, 2021	\$	10,934	\$ 437	\$ 11,371
Accumulated Depreciation				
Balance, January 1, 2020	\$	1,369	\$ 15	\$ 1,384
Depreciation		997	13	1,010
Disposals		(158)	_	(158)
Foreign currency translation		(85)	(1)	(86)
Balance, December 31, 2020		2,123	27	2,150
Depreciation		1,441	127	1,568
Foreign currency translation		(107)	(1)	(108)
Balance, December 31, 2021	\$	3,457	\$ 153	\$ 3,610
Net Book Value				
Balance, January 1, 2020	\$	4,485	\$ 17	\$ 4,502
Balance, December 31, 2020	\$	3,776	\$ 4	\$ 3,780
Balance, December 31, 2021	\$	7,477	\$ 284	\$ 7,761

9. RIGHT-OF-USE ASSETS AND LIABILITIES (continued)

The following table provides details of changes in the Company's lease liabilities:

Balance, January 1, 2020	Note \$	4,548
Disposal		(201)
Interest		223
Payments		(1,144)
Foreign currency translation		333
Balance, December 31, 2020		3,759
Additions		909
Acquisitions through business combinations	4	4,802
Disposal		(131)
Interest		245
Payments		(1,659)
Foreign currency translation		(133)
Balance, December 31, 2021	\$	7,792
As at	Decen	nber 31, 2021
Maturities of lease liabilities:		
2022	\$	2,418
2023		1,644
2024		1,429
2025		1,307
2026		954
Thereafter		800
Total lease payments		8,552
Less imputed interest		760
Total	\$	7,792
Comprised of:		
Current portion of lease liabilities	\$	2,166
Long-term lease liabilities		5,626
Lease liabilities as of December 31, 2021	\$	7,792

10. PROPERTY, PLANT AND EQUIPMENT

	Note	Leasehold Improvements	Ec	Computer quipment & Software	Furniture & Fixtures	Machinery & Equipment		Land & Building	Total
Cost									
Balance, January 1, 2020		\$ 573	\$	3,876 \$	769	\$ 2,066	5\$	701 \$	7,985
Additions		49		718	35	534	4	—	1,336
Disposals		(177)		(598)	(97)	(314	4)	—	(1,186)
Foreign currency translation		(7)		(60)	(27)	9	9	3	(82)
Balance, December 31, 2020		438		3,936	680	2,295	5	704	8,053
Additions		34		158	347	610)	—	1,149
Acquisitions through business combinations	4	8		1,979	676	704	4	29	3,396
Disposals		—		—	(44)	(381	1)	—	(425)
Foreign currency translation		(3)		(58)	(13)	(158	3)	(32)	(264)
Balance, December 31, 2021		\$ 477	\$	6,015 \$	1,646	\$ 3,070)\$	701 \$	11,909
Accumulated Depreciation									
Balance, January 1, 2020		\$ 186	\$	3,425 \$	688	\$ 818	3\$	42 \$	5,159
Depreciation		93		349	22	555	5	18	1,037
Disposals		(111)		(386)	(59)	(287	7)	—	(843)
Foreign currency translation		(1)		(70)	(24)	11	1	1	(83)
Balance, December 31, 2020		167		3,318	627	1,097	7	61	5,270
Depreciation		43		633	207	701	1	(1)	1,583
Disposals		_		—	—	(385	5)	—	(385)
Foreign currency translation		_		(57)	(7)	(180))	(9)	(253)
Balance, December 31, 2021		\$ 210	\$	3,894 \$	827	\$ 1,233	3\$	51 \$	6,215
Net Book Value									
Balance, January 1, 2020		\$ 387	\$	451 \$	81	\$ 1,248	3 \$	659 \$	2,826
Balance, December 31, 2020		\$ 271	\$	618 \$	53	\$ 1,198	3 \$	643 \$	2,783
Balance, December 31, 2021		\$ 267	\$	2,121 \$	819	\$ 1,837	7 \$	650 \$	5,694

The Company recognized no impairment during the year ended December 31, 2021 (2020 - \$nil).

11. INTANGIBLE ASSETS

			Developed	Customer Relationships, Trade Name, Non-competition Agreements and	
	Note	Patents	Software	Backlog	Total
Cost					
Balance, January 1, 2020	\$	406,231 \$	23,354	\$ 30,364 \$	\$ 459,949
Additions		1,336	—	_	1,336
Disposals		—	(12,750)	(9,180)	(21,930)
Foreign currency translation		(8,836)	(282)	(180)	(9,298)
Balance, December 31, 2020		398,731	10,322	21,004	430,057
Additions		4,663	771	_	5,434
Acquisitions through business combinations	4	_	35,533	71,020	106,553
Disposals		(81)	—	—	(81)
Foreign currency translation		(826)	320	394	(112)
Balance, December 31, 2021	\$	402,487 \$	46,946	\$ 92,418 \$	\$ 541,851
Accumulated Amortization & Impairment					
Balance, January 1, 2020	\$	346,929 \$	12,172	\$ 11,314 \$	\$ 370,415
Amortization		13,795	3,603	3,004	20,402
Disposals		_	(8,248)	(3,498)	(11,746)
Impairment		295	_	_	295
Foreign currency translation		(8,263)	(235)	(72)	(8,570)
Balance, December 31, 2020		352,756	7,292	10,748	370,796
Amortization		12,589	2,836	4,803	20,228
Disposals		(27)	—	_	(27)
Foreign currency translation		(457)	9	(53)	(501)
Balance, December 31, 2021	\$	364,861 \$	10,137	\$ 15,498 \$	\$ 390,496
<u>Net Book Value</u>					
Balance, January 1, 2020	\$	59,302 \$	11,182	\$ 19,050 \$	\$ 89,534
Balance, December 31, 2020	\$	45,975 \$	3,030	\$ 10,256 \$	\$ 59,261
Balance, December 31, 2021	\$	37,626 \$	36,809	\$ 76,920 \$	\$ 151,355

12. INVESTMENT IN JOINT VENTURE

	Decemb	December 31, 2020		
Balance, beginning of the year	\$	6,704	\$	5,233
Currency gain on financial statement translation		178		268
Company's share of earnings		1,924		1,680
Dividend received		(1,348)		(477)
Balance, December 31, 2021	\$	7,458	\$	6,704

XPCT is a joint venture in China in which the Company's subsidiary IRD holds a 50% interest. XPCT has two business divisions providing products and services to both the ITS industry and construction equipment manufacturers.

As a distributor for the Company's ITS manufactured goods, XPCT provides a strategic advantage to the Company to increase sales in the Chinese market.

IRD had sales to XPCT of \$150 during the year ended December 31, 2021 (2020 - \$nil). At December 31, 2021, IRD had amounts owing to XPCT of \$1 (2020 - \$48).

As at December 31, 2021, IRD has an outstanding 100% joint and several liability guarantee to XPCT, for a loan in the amount of 15,000 yuan, or \$3,008 (2020 - \$2,954); however, IRD can seek recourse against its joint venture partner for any amount greater than IRD's proportionate share of the liability. The amount owing represents the maximum amount available to be drawn under this facility.

The Company's ownership interest comprises a 50% share of net assets and net earnings of XPCT as well as purchase price adjustments to allocate fair values assigned to certain assets and liabilities at the time of acquisition. Summary financial information for XPCT is as follows:

As at	December 31, 2021			December 31, 2020		
Cash	\$	1,942	\$	3,840		
Other current assets		38,888		32,697		
Non-current assets		1,456		—		
Current liabilities						
Trade and other		(14,630)		(12,562)		
Short-term loans		(10,753)		(9,849)		
Non-current liabilities		(1,987)		(718)		
Net assets - 100%		14,916		13,408		
Net assets attributable to the Company - 50%	\$	7,458	\$	6,704		

	Year ended December 31,					
		2021		2020		
Revenue	\$	53,722	\$	39,542		
Direct cost of revenues		(44,698)		(32,258)		
Depreciation and amortization		(1,428)		(1,310)		
Finance expense		(980)		(602)		
Other expense		(2,082)		(1,420)		
Income before income taxes		4,534		3,952		
Income tax expense		686		592		
Net income - 100%	\$	3,848	\$	3,360		
Net income attributable to the Company - 50%	\$	1,924	\$	1,680		

13. DEFERRED COMPENSATION

Within the Company's ITS segment, its subsidiary, ETC, provides a deferred compensation plan that enables upper level management and executives to defer compensation until retirement. ETC funds these deferred compensation liabilities by making contributions to a trust invested in various mutual funds, presented as deferred compensation assets on the financial statements.

14. GOODWILL

The changes in the carrying amount of goodwill by reporting units are presented in the table below:

	Note	Licensing	Intelligent Transportation Systems	Enterprise Software	Total
Balance, January 1, 2020	\$	16,451 \$	5 — \$	16,526 \$	32,977
Disposition		—	—	(16,526)	(16,526)
Currency translation		(358)	_	—	(358)
Balance at December 31, 2020		16,093	—	—	16,093
Acquisitions	4	—	36,937	_	36,937
Currency translation		(32)	67	—	35
Balance at December 31, 2021	\$	16,061	37,004 \$	— \$	53,065

In accordance with the IFRS guidance related to goodwill, the Company is required to assess the carrying amount of its goodwill for potential impairment annually or more frequently if events or a change in circumstances indicate that impairment may have occurred. The Company tests goodwill for impairment annually at year-end using data as of December 31 of that year at the level of the group of CGUs to which the goodwill is allocated, which corresponds with the corresponding operating segment.

The recoverable amount of the CGU to which the goodwill belongs is determined based on a value-in-use calculation that discounts the present value of estimated future cash flows at an appropriate risk-adjusted rate. The Company uses its internal forecasts to estimate future cash flows and includes an estimate of long-term future growth rates based on its most recent views of the long-term outlook for each business for a period of five years and did not use terminal growth rate. Actual results may differ from those assumed in these forecasts. The Company derives its discount rates using a capital asset pricing model and by analyzing published rates for industries relevant to its reporting units to estimate the cost of equity financing. The Company uses discount rates that are commensurate with the risks and uncertainty inherent in the respective businesses and in its internally developed forecasts. The discount rates used in the licensing and ITS segment valuations at December 31, 2021 were 12% and 8%, respectively (2020 - 13.6%, Licensing segment only).

The results of the assessments performed at December 31, 2021 and December 31, 2020 indicated that the recoverable amount of these operating segments exceeded their carrying values, and management believes that no reasonably possible change in any of the above key assumptions would have caused the carrying amount to exceed its recoverable amount.

Estimating the fair value of reporting units requires the use of estimates and significant judgments that are based on a number of factors including actual operating results. It is reasonably possible that the judgments and estimates described above could change in future periods.

15. ACCOUNTS PAYABLE AND ACCRUED LIABILITIES

As at	December 31, 2021		December 31, 2020		
Trade payables	\$	25,448	\$	10,039	
Accrued compensation		7,325		6,202	
Accrued contingent partner payments & legal fees		3,156		433	
Dividends		1,424		1,383	
Accrued litigation costs		1,161		1,578	
Project losses		1,471		321	
Other current liabilities		2,023		82	
	\$	42,008	\$	20,038	

16. LONG-TERM DEBT

As at			December 31, 2020		
Senior term credit facility:					
US\$50,000, due August 31, 2026	\$	62,826	\$	_	
Less: current portion of long-term debt		(3,181)		_	
Debt issuance costs, net of amortization		(677)			
Total long-term debt	\$	58,968	\$	_	

During the year ended December 31, 2021, Quarterhill ITS, the parent company of the ITS segment and wholly owned subsidiary of Quarterhill Inc., entered into a credit agreement to receive senior secured credit facilities from HSBC Bank Canada and Royal Bank of Canada consisting of a revolving credit facility in the maximum amount of US\$15,000 and a term credit facility of US\$50,000. These credit facilities replaced all existing facilities the Company had with HSBC Bank Canada. The interest rate for the facilities as at December 31, 2021, was 3.2%. Both the facilities have a maturity date of August 31, 2026 with a general security agreement over all of the assets in North America of IRD, ETC and its parent holding company, Quarterhill USA, Inc. The carrying value of these assets as at December 31, 2021 was \$230,788.

During the year ended December 31, 2021, \$12,727 (US\$10,000) was drawn and repaid from the revolving credit facility. Repayments, if any amounts are drawn, on the revolving credit facility are ultimately due on the maturity. The repayment of principal on the term credit facility is structured as quarterly payments based on 1.25% principal repayment per quarter in the first two years and 2.5% per quarter thereafter until the maturity date, upon which the remaining balance is due.

The credit agreement includes covenants, restrictions and events of default usually present in credit facilities of this nature, including requirements to meet certain financial tests periodically and restrictions on additional indebtedness and encumbrances. The financial covenants the Company must maintain are as follows:

- a Fixed Charge Coverage Ratio of at least 1.20 to 1.00 on a rolling four-quarter basis; and
- a Senior Leverage Ratio of not more than 3.50 to 1.00 as at September 1, 2021 and thereafter up to and including the fiscal quarter ending March 31, 2023 and 3.00 to 1.00 from April 1, 2023 and at all times thereafter, up to and including the maturity date. This ratio may increase by 0.50 to 1.00 for the next two fiscal quarters immediately following an acquisition if the aggregate purchase price is equal to or greater than US\$20,000.

The Company was in compliance with all covenants as at December 31, 2021.

16. LONG-TERM DEBT (continued)

Scheduled principal repayments on long-term debt are as follows:

	Principal
To December 31, 2022	\$ 3,181
To December 31, 2023	3,976
To December 31, 2024	6,362
To December 31, 2025	6,362
To December 31, 2026	42,945
	\$ 62,826

The Company also has incurred a revolving demand facility through its WiLAN Inc. ("WiLAN") subsidiary in the amount of \$3,040 to support letters of credit and/or letters of guarantee as well as a credit facility in the amount of \$50 with Royal Bank of Canada for which \$3,095 in restricted short-term investments are held as collateral. As at December 31, 2021, a \$997 (€692) letter of credit is outstanding against the revolving demand facility.

In addition, the Company has a revolving credit facility available with the Canadian Imperial Bank of Commerce in the amount of \$8,000 or the equivalent in US dollars for general corporate purposes and a further US\$2,000 for a foreign exchange facility. Canadian dollar or US dollar amounts advanced under this credit facility are payable on demand and bear interest at the bank's Canadian prime rate plus 1.0% per annum or US base rate plus 1.0% per annum. Borrowings under this facility are collateralized by a general security agreement over the Company's cash and cash equivalents, accounts receivable and present and future personal property. As at December 31, 2021 and during the year ended December 31, 2021, the Company had no borrowings under this facility (2020 – \$nil).

IRD's Chilean subsidiary also maintains a secured line of credit to support performance guarantees required for selected projects. As at December 31, 2021, the dollar value of these performance guarantees totaled \$291 (2020 - \$706).

17. CONVERTIBLE DEBENTURES AND DERIVATIVE LIABILITY

The following table illustrates the allocation of the gross proceeds of the Debentures between debt and equity at issuance and subsequent remeasurement:

	Decen	December 31, 2020		
Convertible Unsecured Subordinated Debentures:				
Gross proceeds	\$	57,500	_	
Convertible debentures, host debt component	\$	47,967	—	
Debt issuance costs, net of amortization		(2,008)		
Convertible debentures	\$	45,959		
Convertible debentures, derivative liability component	\$	9,533	—	
Change in fair value of derivative liability		(92)	_	
Derivative liability	\$	9,441		

On October 27, 2021, the Company completed a brokered financing of \$57,500 by way of the issuance of unsecured subordinated convertible debentures (the "Debentures"), which includes the full exercise of a \$7,500 over allotment option by the underwriters. The Debentures are traded on the TSX under the symbol "QTRH.DB".

17. CONVERTIBLE DEBENTURES AND DERIVATIVE LIABILITY (continued)

The Debentures have a coupon rate of 6%, payable semi-annually, with a maturity date of October 30, 2026 and an initial conversion price into common shares of \$3.80. Each Debenture is convertible into common shares of the Company at the option of the holder at any time prior to the close of business on the earlier of the last business day immediately preceding the date of maturity of October 30, 2026 (the "Maturity Date"). Holders converting their Debentures will, in addition to the applicable number of common shares to be received on conversion receive accrued and unpaid interest, if any, thereon for the period from the last interest payment date on their Debentures to, but excluding, the date of conversion. Except in certain circumstances involving a "Change of Control", the Debentures will not be redeemable at the option of the Company before October 31, 2024. On or after October 31, 2024 and prior to October 31, 2025, the Debentures may be redeemed in whole or in part at the option of the Company on not more than 60 days' and not less than 30 days' prior notice at a price equal to the principal amount plus accrued and unpaid interest, provided that the volume weighted average trading price of the common shares on the TSX for twenty consecutive trading days ending on the fifth trading day preceding the date on which the notice of redemption is given is not less than 125% of the then conversion price. On or after October 31, 2025 and prior to the Maturity Date, the Debentures may be redeemed in whole or in part at the option of the Company on not more than 60 days and not less than 30 days prior notice at a price equal to their principal amount plus accrued and unpaid interest.

Assuming the conversion of all of the Debentures, the Company will issue 15,131,579 shares. The initial fair value of the conversion option was estimated at \$9,533. The conversion option is considered a derivative because the exercise price is in Canadian dollars whereas the Company's functional currency is US dollars. Accordingly, the Company recognizes the conversion option as a liability at fair value with changes in fair value recognized through profit or loss. The fair value of the conversion option is calculated using the Black-Scholes option pricing model with the following weighted average assumptions:

	October 27, 2021	December	cember 31, 2021	
Risk-free rate	1.0 %		1.0 %	
Expected life (in years)	5.0		4.8	
Expected volatility	46.0 %		46.0 %	
Expected dividend yield	1.95 %		1.95 %	
Share price	\$ 2.59	\$	2.70	

Debt issuance costs associated with the issuance of the Debentures for the year December 31, 2021 were \$2,476 and were allocated between the host debt and the conversion option on a relative fair value basis.

18. CONTINGENT LIABILITIES

In connection with Quarterhill's original acquisition of VIZIYA in 2017, the Company agreed to pay VIZIYA's former shareholders up to an additional US\$11,900 in cash and common shares pursuant to the terms of the acquisition agreement if VIZIYA achieved certain targets for its earnings before interest, taxes and amortization ("Eligible Earnings") between at least US\$6,750 and US\$11,850 for the period from April 1, 2017 to July 31, 2019. Additionally, if VIZIYA achieved cumulative Eligible Earnings during that period exceeding US\$11,850, the Company would be required to pay 50% of the amount of those excess Eligible Earnings as additional contingent consideration until that cumulative Eligible Earnings reached a cap of US\$23,700. In 2019, Quarterhill determined that VIZIYA did not achieve the minimum amount of cumulative Eligible Earnings for its former shareholders to be paid any additional amounts. VIZIYA's former shareholders have initiated arbitration of the Eligible Earnings and additional payment calculations as permitted pursuant to the terms of the acquisition agreement, the results of which arbitration may, or may not, result in a determination that the former shareholders are entitled to receive some or all of this earn-out obligation under the acquisition agreement. Quarterhill has defended this arbitration and does not believe that it will ultimately be found liable; however, the outcome of any litigation including this arbitration is inherently uncertain, including as to the finding of any liabilities and the adjudication of any damages amount. As at December 31, 2021, it was determined that it is not more likely than not that a legal liability exists and therefore no provision has been made in the Company's consolidated financial statements.

19. SHARE CAPITAL

The share capital of the Company consists of the following:

	Issued and Outstanding						
	Authorized	December 31,2021	December 31,2020				
a. common shares, with no par value	unlimited	113,880,853	114,322,032				
b. special preferred, redeemable, retractable, non- voting shares	6,350.9	Nil	Nil				
c. preferred shares, issuable in series	unlimited	Nil	Nil				
			Number				
January 1, 2020			118,817,466				
Conversion of PSU to common shares			47,290				
Exercise of stock options			351,893				
Shares repurchased under substantial issuer bid for can	cellation		(2,687,981)				
Shares repurchased under normal course issuer bid for		(2,206,636)					
December 31, 2020			114,322,032				
Issuance of common shares upon vesting of restricted s	stock units		106,887				
Issuance of common shares upon vesting of performan	ce stock units		41,312				
Shares repurchased under normal course issuer bid for	cancellation		(841,300)				
Exercise of stock options			251,922				
December 31, 2021			113,880,853				

SIB

On May 21, 2020, the Company announced its intention to make a Substantial Issuer Bid ("SIB") to purchase for cancellation up to \$20,000 of its outstanding common shares from shareholders for cash by way of modified-Dutch auction with a price range of between \$1.95 and \$2.15 per share. The SIB commenced on June 1, 2020 and expired on July 7, 2020. During the third quarter of 2020, the Company repurchased for cancellation 2,687,981 common shares at an average purchase price of \$2.15 per share, plus transaction costs of \$545, for a total of \$6,324. As purchases were made, the Company reduced share capital for the average book value of the shares repurchased.

NCIB

On August 6, 2020, the Company received approval from TSX on its notice of intention to make a normal course issuer bid to purchase for cancellation up to 11,303,777 of its outstanding common shares (the "NCIB"). During the year ended December 31, 2021, the Company repurchased for cancellation 841,300 common shares at an average purchase price of \$2.45 per share totaling \$2,065 under the NCIB. Since the commencement of the NCIB on August 10, 2020, the Company has repurchased a total of 3,047,936 shares for \$6,363. The NCIB expired on August 9, 2021.

The Company paid quarterly cash dividends as follows:

		2021				2020				
	Per Share		Total Per Share		er Share	hare To				
1st quarter	\$ 0.012	5\$	1,432	\$	0.0125	\$	1,481			
2nd quarter	0.012	5	1,422		0.0125		1,462			
3rd quarter	0.012	5	1,420		0.0125		1,498			
4th quarter	0.012	5	1,415		0.0125		1,383			
	\$ 0.050) \$	5,689	\$	0.0500	\$	5,824			

19. SHARE CAPITAL (continued)

Stock-Based Compensation

At the annual and special meeting of shareholders held on April 18, 2018, Quarterhill's shareholders approved the adoption of the Company's 2018 Equity Incentive Plan (the "Equity Plan"). As at December 31, 2021, the Company had options to purchase up to 8,544,271 common shares outstanding. Upon adoption of the Equity Plan, all options outstanding under the Option Plan are now governed by the Equity Plan.

During the year ended December 31, 2021, the Company granted options to purchase 2,322,887 common shares at exercise prices ranging from \$2.39 to \$2.70 with a weighted average fair value of \$1.13. The Company used the Black-Scholes model for estimating the fair value of options granted with the following weighted average assumptions for the options granted in 2021.

	2021
Risk free rate	0.99 %
Volatility	46.12 %
Expected option life (in years)	3.7
Expected dividend yield	1.95 %
Forfeiture rate	22.12 %

The table below illustrates the options activity for the years ending December 31, 2021 and 2020:

-	O	ptions Outstandi	ng	Exercis	able Options
	Number of Options	Price Range	Weighted Average Exercise Price	Number	Weighted Average Exercise Price
– January 1, 2020	3,788,908	\$1.33 \$4.23	\$2.14	1,508,063	\$2.12
Granted	4,571,757	1.80 — 2.60	2.03		
Forfeited	(1,057,983)	1.33 — 2.38	2.19		
Expired	(140,000)	3.25 — 4.23	3.83		
Exercised	(351,893)	1.33 — 2.38	2.32		
December 31, 2020	6,810,789	\$1.33 — \$4.23	\$2.02	1,570,308	\$2.04
Granted	2,322,887	2.39 — 2.70	2.64		
Forfeited	(267,482)	1.81 — 2.16	1.94		
Expired	(70,001)	1.89 — 2.14	2.01		
Exercised	(251,922)	1.33 — 2.16	1.87		
– December 31, 2021	8,544,271	\$1.81 — \$2.70	\$2.19	2,987,725	\$2.05

The weighted average fair value per option granted during the year ended December 31, 2021 was \$0.64 (2020 – \$0.69).

The intrinsic value of the exercisable options was \$1,384 as at December 31, 2021 (2020 - \$495). The total fair value of options vested was \$1,775 for the year ended December 31, 2021 (2020 - \$468).

19. SHARE CAPITAL (continued)

As at December 31, 2021, there was \$4,216 of total unrecognized stock-based compensation cost, net of expected forfeitures, related to unvested stock-based compensation arrangements granted under the stock option plan. This cost is expected to be recognized over a weighted average period of 3.2 years. Details of the outstanding options at December 31, 2021 are as follows:

Range of Exerc	ise Prices	Outstanding Options at December 31, 2021	Remaining Term of Options in Years	A	Veighted Average rcise Price	Exercisable Options at December 31, 2021	A	eighted /erage cise Price
\$ 1.30 \$	1.49	383,880	3.18	\$	1.33	255,921	\$	1.33
1.50	1.99	3,389,497	4.40		1.90	1,211,373		1.89
2.00	2.49	1,854,417	5.36		2.14	1,040,620		2.09
2.50	2.99	2,916,477	5.87		2.68	479,811		2.72
\$ 1.89 \$	4.37	8,544,271	5.06	\$	2.19	2,987,725	\$	2.04

Restricted Stock Units

Pursuant to the Company's Equity Plan, the Company granted restricted stock units ("RSUs") to certain employees in March 2021. Pursuant to the Equity Plan, these RSUs are settled in common shares issued from treasury on a one-to-one basis in six tranches, with the first tranche vested at the grant date on March 15, 2021 and each subsequent tranche vesting upon the Company coming out of its regular quarterly blackout for the fiscal quarters ending June 30 and December 31, in 2021, 2022 and 2023. The Company granted 556,721 RSUs on March 15, 2021, valued using the most recent TSX closing price for the common shares on the grant date of \$2.59 for a total of \$1,441. For the year ended December 31, 2021, the Company has recognized \$1,085 in stock-based compensation expense as a result. The Company also had also implemented an RSU plan for certain employees and directors in January 2007, which awarded RSUs that are settled in cash based on the market value of Quarterhill's common shares on the dates when the RSUs vest. The accrued liability and related expense for the RSUs are adjusted to reflect the market value of the common shares at each consolidated statements of financial position date. The liability recorded in respect of the vested RSUs was \$92 as at December 31, 2021 (2020 - \$250). Of the 395,257 RSUs outstanding as at December 31, 2021, 361,022 settle in shares and 34,235 settle in cash.

RSU activity for the years ended December 31, 2021 and 2020 was as follows:

	Number
January 1, 2020	870,834
	(602 720)
Settled	(682,739)
Forfeited	(10,977)
December 31, 2020	177,118
Granted	556,721
Settled	(328,457)
Forfeited	(10,125)
December 31, 2021	395,257

During the year ended December 31, 2021, 10,125 RSUs (2020 – 10,977) were forfeited as they related to former employees.

20. OTHER CHARGES

Other charges within the consolidated statements of (loss) income and comprehensive (loss) income include costs and recoveries that relate to certain restructuring initiatives that the Company has undertaken from time to time, acquisition-related costs and recoveries and other charges. During the year ended December 31, 2021, the Company recognized other charges of \$6,133 (2020 - \$1,227), \$4,574 of other charges relating to the acquisitions of ETC, Sensor Line and VDS, \$1,442 in restructuring and termination costs, as well as \$117 related to workforce reductions and other charges. Other charges during the year ended December 31, 2020 pertained to retirement allowances of \$1,029 and acquisitions costs related to Sensor Line of \$198.

21. (LOSS) INCOME PER SHARE

Basic (loss) income per share is calculated by dividing net (loss) income by the weighted average number of common shares outstanding during the year. Diluted (loss) income per share is calculated by dividing net (loss) income by the adjusted weighted average number of common shares outstanding to assume conversion of all potential dilutive stock options to common shares.

	Year ended December 31,							
		2021 2020						
Numerator:								
Net (loss) income from continuing operations	\$	(22,183)	\$	4,428				
Net income from discontinued operations				14,255				
Net (loss) income	\$	(22,183)	\$	18,683				
Denominator: Weighted average number of common shares outstanding for basic (loss)								
income per share		114,013,610		116,939,833				
Adjustment for stock options		_		70,082				
Weighted average number of common shares outstanding for diluted (loss) income per share		114,013,610		117,009,915				
From continuing operations	\$	(0.19)	\$	0.04				
From discontinued operations				0.12				
(Loss) income per share - Basic	\$	(0.19)	\$	0.16				
From continuing operations	\$	(0.19)	\$	0.04				
From discontinued operations		_		0.12				
(Loss) income per share - Diluted	\$	(0.19)	\$	0.16				

22. SEGMENT REPORTING

An operating segment is a component of the Company that engages in business activities from which it may earn revenues and incur expenses, including revenues and expenses that relate to transactions with any of the Company's other components, and for which discrete financial information is available. The operating results of all operating segments are reviewed regularly by the Company's CODM to make decisions about resources to be allocated to the segment and assess their performance. The Company's CODM is the Chief Executive Officer. The Company's operating segments are organized on the basis of products and services provided and also represent its reportable segments. The Company's reportable segments, identified as Licensing and ITS, follow the same accounting policies as those described in these consolidated financial statements and are further described below.

Intelligent Transportation Systems – This segment includes companies that provide integrated, tolling and mobility systems and solutions to the ITS industry as well as its adjacent markets. The ITS industry is focused on enhancing the safety, increasing the efficiency and reducing the environmental impact of highway and roadway transportation systems.

Licensing – This segment includes companies that count licensing as their principal business activity. The Company's investment in this segment consists of WiLAN and its wholly owned subsidiaries. Current patent portfolios include patents relating to memory interface technologies, semiconductor manufacturing and packaging technologies, automotive applications, computer gaming, intelligent personal assistant technologies, enhanced image processing, streaming video technologies, non-volatile Flash memory, DRAM and other memory technologies as well as semiconductor analog circuitry technologies.

Segmented statements of (loss) income for the years ended December 31, 2021 and 2020 are included below:

	Year ended December 31, 2021							
CONTINUING OPERATIONS		Licensing		Intelligent Transportation Systems		Corporate		Total
Revenues	\$	25,722	\$	99,973	\$	_	\$	125,695
Direct cost of revenues		21,809		66,451		—		88,260
Gross profit		3,913		33,522		_		37,435
Depreciation of right-of-use assets		200		1,194		174		1,568
Depreciation of property, plant and equipment		44		1,513		26		1,583
Amortization of intangible assets		12,306		7,922		—		20,228
Selling, general and administrative expenses		3,544		20,237		9,558		33,339
Research and development expenses		—		2,372		—		2,372
Other charges		_		3,630		2,503		6,133
Results from operations		(12,181)		(3,346)		(12,261)		(27,788)
Finance income		(47)		(4)		(113)		(164)
Finance expense		165		1,155		1,008		2,328
Foreign exchange gain		(119)		(692)		(405)		(1,216)
Other (income) loss		—		(2,039)		32		(2,007)
Loss before taxes		(12,180)		(1,766)		(12,783)		(26,729)
Current income tax expense		552		754		—		1,306
Deferred income tax (recovery) expense		(5,523)		(1,639)		1,310		(5,852)
Income tax (recovery) expense		(4,971)		(885)		1,310		(4,546)
Net loss from continuing operations	\$	(7,209)	\$	(881)	\$	(14,093)	\$	(22,183)

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22. SEGMENT REPORTING (continued)

	Year ended December 31, 2020							
CONTINUING OPERATIONS		Licensing	Intelligent ansportation Systems	Corporate		Total		
Revenues	\$	78,260	\$	66,266	\$		\$	144,526
Direct cost of revenues		46,205		39,463		—		85,668
Gross profit		32,055		26,803		—		58,858
Depreciation of right-of-use assets		238		646		95		979
Depreciation of property, plant and equipment		59		889		21		969
Amortization of intangible assets		13,785		5,070		—		18,855
Selling, general and administrative expenses		3,386		11,393		12,089		26,868
Research and development expenses		—		2,282		—		2,282
Impairment losses on intangible assets		295		_		—		295
Special charges		—		883		344		1,227
Results from operations		14,292		5,640		(12,549)		7,383
Finance income		(200)		(10)		(363)		(573)
Finance expense		139		293		27		459
Foreign exchange loss (gain)		647		27		(762)		(88)
Other income		—		(1,680)		—		(1,680)
Income (loss) before taxes		13,706		7,010		(11,451)		9,265
Current income tax expense		1,834		203		_		2,037
Deferred income tax (recovery) expense		(2,159)		1,661		3,298		2,800
Income tax (recovery) expense		(325)		1,864		3,298		4,837
Net income (loss) from continuing operations	\$	14,031	\$	5,146	\$	(14,749)	\$	4,428

The following table includes revenue by contracts disaggregated by the timing of revenue recognition:

	Year ended December 31,				
	2021			2020	
Revenue recognized at a point in time	\$	24,902	\$	82,524	
Revenue recognized over time		100,793		62,002	
Total revenues	\$	125,695	\$	144,526	

22. SEGMENT REPORTING (continued)

Revenue by geography for the years ending December 31, 2021 and 2020 are as follows:

	Year e	Year ended December 31,		
	2021		2020	
Revenues				
United States	\$ 8	37,310 \$	115,412	
Canada		2,936	2,509	
Chile		3,193	2,791	
China		1,164	179	
Korea		4,932	1,825	
Ukraine		1,477	2,151	
Taiwan		6,019	9,094	
Thailand		3,306	2,876	
Singapore		597	570	
Belgium		1,042	440	
Germany		6,135	75	
Rest of the world		7,584	6,604	
Total revenues	\$ 12	25,695 \$	144,526	

Segment assets as at December 31, 2021 and December 31, 2020 are as follows:

As at	December 31, 2021	Dec	ember 31, 2020
Licensing	\$ 86,468	\$	107,852
Intelligent Transportation Systems	263,622		65,888
Total segment assets	350,090		173,740
Total corporate assets	77,105		136,213
Total assets	\$ 427,195	\$	309,953

Total of property, plant and equipment, right-of-use assets, intangible assets, and goodwill by geography are as follows:

As at	Decem	ber 31, 2021	December 31, 2020
United States	\$	160,592	\$ 17,230
Canada		47,468	63,295
Belgium		339	567
Chile		841	825
Germany		8,635	
Total non-current assets	\$	217,875	\$ 81,917

22. SEGMENT REPORTING (continued)

Major Customers

A major customer is defined as an external customer whose transactions within a segment of the Company amount to 10% or greater of the respective segment's revenue. Five major customers of the Licensing segment represented \$22,777 of total revenues for this segment for the year ended December 31, 2021, whereas for the year ended December 31, 2020, two major customers totaled \$66,295 of the segment's total revenues. There was one major customer of the ITS segment totaling \$10,941 for the year ended December 31, 2021, whereas segment totaling \$10,941 for the year ended December 31, 2021, whereas for the year ended December 31, 2020, there was one major customer that accounted for \$8,877 of the segment's total revenues.

Remaining Performance Obligations

As at December 31, 2021, the amount of transaction price allocated to remaining performance obligations was \$176,550. The Company expects to recognize approximately 49% of this revenue in 2022, 22% in 2023, and 29% thereafter.

23. EXPENSE BY NATURE

	Year ended December 31,				
		2021	2020		
Personnel costs	\$	46,632 \$	30,338		
Subcontractor fees		15,175	7,594		
Direct and indirect materials costs		23,911	19,299		
Litigation and licensing costs		13,698	38,142		
Professional, patent and outside services		16,018	13,956		
Communications and information technology		4,783	1,471		
Facilities		2,294	1,581		
Travel and entertainment		834	2,287		
Other administrative expenses		626	150		
Depreciation of right-of-use assets		1,568	979		
Depreciation of property, plant and equipment		1,583	969		
Amortization and impairment of intangible assets		20,228	19,150		
Other charges		6,133	1,227		
Total direct cost of revenues and operating expenses		153,483	137,143		
Salaries and wages		39,388	26,528		
Employee benefits		6,352	4,245		
Stock-based compensation		1,955	1,015		
Bonuses		1,921	3,544		
Commissions		_	172		
Other personnel costs		690	572		
Government grants earned		(3,674)	(5,738)		
Personnel costs	\$	46,632 \$	30,338		

24. TAXES

The reconciliation of the expected provision for income tax (recovery) expense to the actual provision for income tax (recovery) expense reported in the consolidated statements of (loss) income and comprehensive (loss) income for the years ended December 31, 2021 and December 31, 2020 is as follows:

	Year ended December 31,				
		2021		2020	
Net (loss) income before income taxes	\$	(26,729)	\$	9,265	
Canadian statutory income tax rate		26.5 %		26.5 %	
Expected income tax (recovery) expense		(7,083)		2,455	
Permanent differences		521		251	
Foreign withholding taxes paid		66		16	
Foreign rate differential		67		(234)	
Return to provision		545		297	
Change in benefit of tax assets not recognized		1,151		1,672	
Other		187		380	
Income tax (recovery) expense	\$	(4,546)	\$	4,837	

The income tax (recovery) expense from continuing operations is as follows:

	Year ended December 31,					
	2021		2020			
Current income tax expense						
Current period	\$	1,245 \$	2,170			
Adjustment in respect of prior periods		61	(133)			
		1,306	2,037			
Deferred income tax (recovery) expense						
Current period		(6,337)	2,370			
Adjustment in respect of prior periods		485	430			
		(5,852)	2,800			
	\$	(4,546) \$	4,837			

24. TAXES (continued)

The effect of temporary differences, tax losses, and tax credits that give rise to significant components of the Company's deferred income tax assets and liabilities, which have been recognized during the year ended December 31, 2021, are as follows:

	December 31, 2021		De	ecember 31, 2020
Deferred income tax assets				
Tax loss carryforwards	\$	23,741	\$	18,014
Capital assets		2,151		4,430
Scientific research and experimental development ("SR&ED") carryforwards		8,023		8,087
Financing charges		39		—
Lease liabilities		1,991		1,800
Tax credits		1,024		1,178
Deferred revenue, unbilled revenue & prepaid accounts		15		379
Tax reserves		802		458
Deferred income tax assets		37,786		34,346
Deferred income tax liabilities				
Right-of-use assets		(1,974)		(1,794)
Capital assets		(2,811)		(4,021)
Investments		(256)		(198)
Deferred revenue, unbilled revenue & prepaid accounts		(525)		(209)
Foreign exchange		(286)		
Deferred income tax liabilities		(5,852)		(6,222)
Deferred income tax assets, net	\$	31,934	\$	28,124

The Company is required to assess whether it is probable that it will realize the benefits of its deferred tax assets based on consideration of all available evidence. The factors the Company uses to assess the likelihood of realization are its history of losses, forecasts of future pre-tax income, and tax planning strategies that could be implemented to realize the deferred tax assets. Accordingly, available deferred income tax assets in the amount of \$22,491 were not recognized as it is not probable that future taxable income will be available to the Company to utilize the benefits.

Additionally, the Company has recognized a deferred tax asset of \$16,029 in jurisdictions that incurred a loss in the current year; although a loss was incurred in the year, based upon the level of historical profitability, forecasted profits, and viable tax planning strategies, management believes it is probable that the Company will realize the benefit of these deductible temporary differences and operating tax loss carry forwards.

The amount of deductible temporary differences, unused tax losses, and unused tax credits for which no deferred tax asset is recognized in the consolidated statements of financial position for the years ended December 31, 2021 and 2020 are as follows:

	December 31, 2021		December 31, 2020		
Tax loss carryforwards	\$	51,769	\$	44,423	
Fixed assets		18,300		21,079	
Tax credits		6,642		6,387	
Other deductible temporary differences		265		713	
	\$	76,976	\$	72,602	

24. TAXES (continued)

Expiry	SR8	ED pool Canadian Tax Losses				US Tax Losses	Other Jurisdictions	Consolidated Tax Losses
2022	\$	\$	5 —	\$ —	\$ 349	\$ 349		
2023		_	—	—	18	18		
2024		_	_	_	277	277		
2025		_	_	_	70	70		
2026		—	_	_	_	_		
2027		_	_	_	563	563		
2028		_	_	_	412	412		
2029		_	_	_	_	_		
2030		_	_	_	_	_		
2031		_	_	448	_	448		
2032		_	_	2,651	_	2,651		
2033		_	7,765	6,117	_	13,882		
2034		_	3,369	9,707	_	13,076		
2035		_	1,629	5,286	_	6,915		
2036		_	18,693	1,493	_	20,186		
2037		_	3,845	10,560	_	14,405		
2038		_	31,033	_	_	31,033		
2039		_	372	_	_	372		
2040		_	192	_	_	192		
2041		_	17,462	3,567	_	21,029		
Indefinite		30,942		11,848	2,488	14,336		
	\$	30,942 \$	\$ 84,360	\$ 51,677	\$ 4,177	\$ 140,214		

As at December 31, 2021, the Company had unused non-capital tax losses of approximately \$140,214 (2020 - \$109,618) that are due to expire as follows:

The Company has investment tax credits of \$2,722 that expire in various amounts from 2022 to 2042. Investment tax credits, which are earned as a result of qualifying SR&ED expenditures, are recognized and applied to reduce income tax expense in the year in which the expenditures are made and their realization is reasonably assured. The Company also has unused foreign tax credits of approximately \$5,106 that expire in various amount from 2026 to 2031.

As at December 31, 2021, the Company had temporary differences of \$4,458 (2020 - \$3,546) associated with investments in subsidiaries for which no deferred tax liabilities have been recognized, as the Company is able to control the timing of the reversal of these temporary differences and it is not probable that these differences will reverse in the foreseeable future.

25. FINANCIAL RISK MANAGEMENT

Credit Risk

Credit risk is the risk of financial loss to the Company if a licensee or counter party to a financial instrument fails to meet its contractual obligations. Financial instruments that potentially subject the Company to concentrations of credit risk consist primarily of cash, short-term investments, restricted short-term investments, accounts receivable and unbilled revenue. The Company recognizes a loss allowance provision using the simplified approach based on lifetime expected credit losses ("ECLs"). The Company's exposure to credit risk with its accounts receivable from customers is influenced mainly by the individual characteristics of each customer. The Company's customers are for the most part, large multinational companies or government organizations which do not have a history of non-payment. Credit risk from accounts receivable encompasses the default risk of the Company's customers. Prior to entering into transactions with new customers, the Company assesses the risk of default associated with the particular customer. In addition, on an ongoing basis, management monitors the level of accounts receivable attributable to each customer and the length of time taken for amounts to be settled and, where necessary, takes appropriate action to follow up on those balances considered overdue. The Company has had no significant bad debts for any periods presented.

The following table provides an aging analysis of trade accounts receivable. The age of an invoice does not necessarily indicate an account is past due as many contracts for system revenue require the successful completion of system testing and acceptance.

As at	December 31, 2021			nber 31, 2020
Current	\$	5,542	\$	178
1 - 30 days		13,241		7,494
31 - 60 days		4,123		2,083
61 - 90 days		3,141		1,549
91 days and over		5,065		3,044
Less expected credit loss		(936)		(601)
Accounts receivable		30,176		13,747
Long-term accounts receivable		1,450		506
Total accounts receivable	\$	31,626	\$	14,253

None of the amounts outstanding have been challenged by the respective counterparties, and the Company continues to conduct business with them on an ongoing basis. Accordingly, management has no reason to believe that these balances are not fully collectable in the future.

The Company reviews financial assets on an ongoing basis with the objective of identifying potential matters that could delay the collection of funds at an early stage. Once items are identified as being past due, contact is made with the respective customer to determine the reason for the delay in payment and to establish an agreement to rectify the breach of contractual terms.

Liquidity Risk

Liquidity risk is the risk that the Company will not be able to meet its financial obligations as they fall due. The Company's objective in managing liquidity risk is to ensure that it has sufficient liquidity available to meet its liabilities when due. The Company manages its liquidity needs through various sources including cash generated through operations, cash reserves, various revolving credit facilities, and the issuance of common shares.

The Company's cash and cash equivalents, short-term investments, and restricted short-term investments consist primarily of deposit investments that are held primarily with Canadian chartered banks. Management does not expect any counter parties to fail to meet their obligations.

25. FINANCIAL RISK MANAGEMENT (continued)

	Total	L	ess than 1. year	2	e - 3 years	4 - 5 years	-	Thereafter
Accounts payable and accrued liabilities	\$ 42,008	\$	42,008	\$	_	\$ _	\$	_
Long-term debt	62,826		3,181		10,338	49,307		—
Convertible debentures	57,500		_		—	57,500		—
Lease liabilities	8,552		2,418		3,073	2,261		800
	\$ 170,886	\$	47,607	\$	13,411	\$ 109,068	\$	800

The table below presents a maturity analysis of the Company's financial liabilities:

See Note 9 for maturity of lease liabilities.

Market Risk

Market risk is the risk to the Company that the fair value of future cash flows from its financial instruments will fluctuate due to changes in interest rates and foreign currency exchange rates. Market risk arises as a result of the Company generating revenues in foreign currencies.

Interest Rate Risk

The financial instruments that expose the Company to interest rate risk are its cash and cash equivalents, shortterm investments, bank indebtedness and long-term debt. The Company's objectives of managing its cash and cash equivalents and short-term investments are to ensure sufficient funds are maintained on hand at all times to meet day-to-day requirements and to place any amounts that are considered in excess of day-to-day requirements on short-term deposit with the Company's banks so that they earn interest. When placing amounts of cash and cash equivalents into short-term investments, the Company only places investments with Canadian chartered banks and ensures that access to the amounts placed can be obtained on short notice. A 1% increase or decrease in interest rates would not have resulted in a material increase or decrease in interest income or expense during the year ended December 31, 2021.

Currency Risk

Portions of the Company's revenues and operating expenses are denominated in US dollars, Indian rupees, Chilean pesos, Mexican pesos, Euros and Chinese yuan. Because these financial statements are reported in Canadian dollars, the Company's operating results are subject to changes in the exchange rate of the foreign currencies (primarily US dollars) relative to the Canadian dollar. For instance, a decrease in the value of the US dollar relative to the Canadian dollar has an unfavourable impact on US dollar denominated revenues and a favourable impact on US dollar denominated direct cost of revenues and operating expenses. Approximately 37% of the Company's cash and cash equivalents and short-term investments are denominated in US dollars and are subject to changes in the exchange rate of the Canadian dollar relative to the US dollars.

Foreign exchange risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate due to changes in foreign exchange rates. Foreign exchange gains or losses in net (loss) income arise on the translation of foreign currency-denominated assets and liabilities held in the Company's North American operations and foreign subsidiaries. As the parent company's functional currency is in US dollars, it is subject to changes in the exchange rate of foreign currencies, primarily the Canadian dollar, relative to the US dollar while subsidiary companies with a functional currency not in US dollars are subject primarily to changes in the exchange rate of foreign currencies, primarily the US dollar. As at December 31, 2021, the Company's sensitivity to a 5% strengthening (weakening) of the US dollar relative to the Canadian dollar and all other currencies for which the functional currency of the subsidiary company differs from the Canadian dollar would result in a pre-tax \$2,194 increase (decrease) to the consolidated statement of (loss) income.

25. FINANCIAL RISK MANAGEMENT (continued)

The COVID-19 Pandemic

While the Company is not immune to the impacts of the pandemic, the majority of the work performed within each portfolio company remains ongoing, and in the case of the ITS segment, certain of its work has been deemed "essential" by governing authorities. However, there remains some risk that certain project work or license sales will be deferred or restricted and new orders delayed, in particular, in international jurisdictions.

26. RELATED-PARTY TRANSACTIONS

These consolidated financial statements include the accounts of Quarterhill Inc. and its wholly owned subsidiaries. Balances and transactions between the Company and its subsidiaries, which are related parties, have been eliminated on consolidation and are not disclosed in this note. Transactions and balances with XPCT, a joint venture in China in which the Company's subsidiary IRD holds a 50% interest, which is also a related party, are disclosed in Note 12.

Key management personnel are Quarterhill Inc.'s President & Chief Executive Officer, Chief Financial Officer and Senior Vice-President, General Counsel & Corporate Secretary and the Chief Executive Officers of each of IRD, WiLAN and ETC. Other related parties are close family members of the key management personnel and entities controlled by key management personnel.

The executive compensation expense to the five key management personnel is as follows:

	N	/ear ended l	Decen	nber 31,
	2	021		2020
Salaries and benefits	\$	4,485	\$	2,658
Board fees		306		717
Stock-based compensation		1,229		601
	\$	6,020	\$	3,976

27. CAPITAL MANAGEMENT

The Company's capital management objectives are to maintain financial flexibility in order to pursue its strategy of organic acquisitional growth, pay dividends, and, from time to time, return capital to shareholders, while maintaining an adequate return for shareholders. The Company defines its capital as cash, the aggregate of cash and cash equivalents, short-term investments, restricted short-term investments, long-term debt, convertible debentures and shareholders' equity.

		December 31, 2021		December 31, 2020	
Current portion of long-term debt	\$	3,181	\$	_	
Non-current portion of long-term debt		58,968		—	
Convertible debentures		45,959			
Long-term debt and convertible debentures, net of debt issuance costs		108,108		_	
Less:					
Cash and cash equivalents		(70,746)		(135,700)	
Short-term investments		(1,851)		(5,550)	
Restricted short-term investments		(3,095)			
Net debt		32,416		(141,250)	
Shareholders' equity		241,116		271,930	
Total capital management	\$	273,532	\$	130,680	

The Company manages its capital structure in accordance with changes in economic conditions. To maintain or adjust its capital structure, the Company may purchase shares for cancellation pursuant to an NCIB or SIB, issue new shares, or raise or retire debt. In the current year, the Company took advantage of its surplus of cash by settling all of its bank indebtedness to reduce interest expense and maintain a healthy buffer for financial covenants. The Company is subject to covenants and restrictions related to its credit facilities as further described in Note 16, Long-term Debt. The Company was in compliance with the covenants as at and throughout the year ended December 31, 2021. During the year ended December 31, 2021, the Company also issued unsecured subordinated convertible debentures with net proceeds of \$55,024 as a means to further advance its acquisition strategy, which the Company intends to settle in shares, thus, eliminating the liquidity risk of settling in cash.

28. CHANGES IN NON-CASH WORKING CAPITAL BALANCES

	Year ended December 31,			
	2021	2020		
Accounts receivable	\$ (6,686) \$	23,962		
Unbilled revenue	(10,785)	(5,287)		
Income taxes receivable	(121)	(139)		
Inventories	(5,210)	(829)		
Prepaid expenses and deposits	(180)	(6,861)		
Deferred revenue	3,258	1,713		
Accounts and other long-term receivables	(728)	—		
Deferred compensation asset	(111)	—		
Deferred compensation liability	(93)	—		
Accounts payable and accrued liabilities	13,203	(5,547)		
Income taxes payable	69	466		
	\$ (7,384) \$	7,478		

28. CHANGES IN NON-CASH WORKING CAPITAL BALANCES (continued)

Supplemental Cash Flow Information

	Year ended December 31,			
	 2021		2020	
Net interest received in cash, included in operations	\$ 84	\$	(553)	
Taxes paid	785		2,099	

29. COMPARATIVE INFORMATION

The information presented in the prior year's consolidated statement of financial position relating to deferred tax assets and liabilities was adjusted to reflect the method of presentation adopted in the current year.

DIRECTORS

Roxanne Anderson (3,4) Chair of the ESG Committee

Dr. Michel Tewfik Fattouche (2,4)

John Gillberry (1,2,3) Chair of the Board, Chair of the Nominating Committee

Bret Kidd President & Chief Executive Officer

Rusty Lewis

W. Paul McCarten (1,2) Chair of the Compensation Committee Will not stand for re-election at the AGM on April 21, 2022

Richard Shorkey (3) Chair of the Audit Committee Will not stand for re-election at the AGM on April 21, 2022

James Skippen Vice-Chairperson of the Board

Pamela Steer Standing for election at the AGM on April 21, 2022

Anna Tosto (1,4)

Member of (1) Compensation Committee, (2) Nominating Committee, (3) Audit Committee, (4) ESG Committee

NAMED EXECUTIVE OFFICERS

Bret Kidd President & Chief Executive Officer

Prashant Watchmaker Senior Vice President, General Counsel & Corporate Secretary

Steven Thompson Interim Chief Financial Officer

Rish Malhotra President & Chief Executive Officer, International Road Dynamics Inc.

Kevin Holbert President & Chief Executive Officer, Electronic Transaction Consultants

Michael Vladescu President & Chief Executive Officer, WiLAN Inc.

STOCK EXCHANGE LISTINGS

Toronto Stock Exchange, Symbol: QTRH OTCQX Best Market, Symbol: QTRHF

TRANSFER AGENT

Computershare Investor Services Inc.

PUBLIC FILINGS – SEDAR

Quarterhill's publicly filed documents are available at <u>www.sedar.com</u>

AUDITORS

EY Canada

INVESTOR RELATIONS

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