

QUANTUM eMOTION CORP.

Management's Discussion and Analysis

December 31, 2022

The following management's discussion and analysis ("MD&A") of the financial condition and results of the operations of Quantum eMotion Corp. (the "Company", "QeM" or "Quantum") constitutes management's review of the factors that affected the Company's financial and operating performance for the year ended December 31, 2022 compared to the year ended December 31, 2021 prepared with information available as of May 1, 2023.

The following analysis should be read in conjunction with the annual financial statements, including accompanying notes, of the Company for the year ended December 31, 2022. The audited financial statements for the year ended December 31, 2022, including comparative figures, have been prepared in accordance with IFRS.

Further information regarding the Company and its operations are filed electronically on the System for Electronic Document Analysis and Retrieval ("SEDAR") in Canada and can be obtained from www.sedar.com.

1.1 FORWARD LOOKING STATEMENTS

The sections of this management discussion and analysis ("MD&A") on the Company's strategy and action plan, its intellectual properties, development and financial reporting reflecting management's current expectations contain "forward-looking statements." Such statements should be understood in context, particularly statements that reflect the Company's opinions, estimates and expectations about future events or results. Such forward-looking statements are subject to certain factors and involve some risks and uncertainties. There can be no assurance that such statements will prove to be accurate. Factors that could cause future results, activities and events to differ materially from those expressed or implied by such forward-looking statements include, but not limited to, possibility or not to obtain the patent, time required to obtain such patent, risks inherent in the hi-tech industry, and the time it will take for the industry to be ready to move to quantic solutions. These risks and uncertainties are described in this MD&A and also the annual information form filed on SEDAR.

1.2 INCORPORATION, NATURE OF OPERATIONS AND GOING CONCERN

Quantum eMotion Corp. was incorporated under the *Business Corporations Act* of Ontario on July 19, 2007.

The head office, principal address and records office of the Company are located at 2300 Alfred Nobel, bureau 209, Montreal, Qc, H4S 2A4. The Company is a developer of a new generation of cryptographic solutions pursuant to the acquisition of intellectual property (See 1.8).

The business of technology involves a high degree of risk and there can be no assurance that projects under research and development will proceed through to achieve commercialization. Risks related to the value of the Company's intangible assets, completing proof of concept studies, protecting intellectual property rights, the ability of the Company to raise additional financing, and risks inherent to new technologies, such as risk of obsolescence, slow adoption and competing technological advances. Changes in future conditions could require material impairment of assets.

These financial statements have been prepared in accordance with International Financial Reporting Standards ("IFRS") on a going concern basis, which contemplates that the Company will be able to realize its assets and discharge its liabilities in the normal course of business. For the twelve months ended December 31, 2022, the Company incurred a net loss of \$2,804,570 (2021 - \$1,562,648) and had negative cash flows from operations of \$1,617,810 (2021 - \$1,467,170). In addition, the Company had accumulated deficit of \$10,772,910 as at December 31, 2022.

1.2 INCORPORATION, NATURE OF OPERATIONS AND GOING CONCERN (Continued)

Management expects that the working capital (current assets in excess of current liabilities) available to the Company at December 31, 2022, provides the Company with adequate funding to meet its short-term obligations for the next 12 months and to meet the timelines of its development programs and pay its overhead and administrative costs. However, the Company does not expect to generate revenue from product sales unless and until it successfully completes development of its cryptographic solutions, which may take a number of years and is subject to significant uncertainty.

The Company expects to incur significant development and commercialization expenses related to product development sales, marketing and distribution. As a result, the Company will need additional financing in the future to support its continuing operations. Until such time that it can generate significant revenue from product sales, if ever, the Company expects to finance its operations through a combination of public or private equity or debt financings or other sources.

The Company currently has no committed sources of financing available. While the Company has been successful in securing financing in the past, raising additional funds is dependent on a number of factors outside the Company's control, and as such there is no assurance that it will be able to do so in the future. The ability of the Company to meet its commitments and discharge its liabilities as they become due and become profitable is dependent on the completion of the development of its technology and its commercial production, and on its ability to raise additional funding to finance these activities. The conditions mentioned above indicate the existence of a material uncertainty that may cast a significant doubt as to the Company's ability to continue as a going concern.

The financial statements do not reflect the adjustments to the carrying values of assets and liabilities that would be necessary if the Company were unable to realize its assets or discharge its obligations in anything other than the ordinary course of operations.

1.3 SENIOR MANAGEMENT CHANGES

None.

1.4 COMPANY OVERVIEW AND STRATEGY

RESEARCH & DEVELOPMENT ACTIVITIES

The primary management objective has been to strengthen the Company in the following three sectors of activities:

Technology

Our primary objective is to make our cryptographic solutions technology accessible as rapidly as possible to potential clients and partners, secure its effectiveness and ensure that the intellectual property is well protected. In order to stay focused on this objective, we are closely working with our partners to maximize the potential and security of our technology. The Company is developing complementary metal-oxide semiconductor ("CMOS") implementations with l'École de Technologie Supérieure ("ETS") to ensure greater competitiveness.

Early in 2022, Quantum eMotion secured Mitacs funding in collaboration with Dr. Kaiwen Zhang at ETS (École de technologie supérieure, Montreal, Canada) for Blockchain applications of its QRNG technology in three projects:

1. Evaluate and develop the use of the QRNG2 device to harden the cryptographic mechanisms of hardware cryptocurrency wallets;
2. Evaluate and develop the use of QRNG as a verifiable randomness beacon for blockchain oracle;
3. Evaluate and develop the use of QRNG as an alternative leader selection protocol for blockchain consensus.

1.4 COMPANY OVERVIEW AND STRATEGY (Continued)

RESEARCH & DEVELOPMENT ACTIVITIES (Continued)

Technology (Continued)

On June 17, 2021, the Company chose Syntronic to finalize the design and prepare the manufacturing of its first commercial hardware product with a view of having a workable and marketable device prior to year end. On March 22, 2022, the Company issued a press release confirming the launch of its game changer QRNG2, a new quantum random number generator (QRNG) that delivers pure entropy at 1.5 Gb/s, the highest throughput available today in a marketable QRNG. This major breakthrough was achieved within our budget parameters despite challenges imposed by major supply chain issues. In a first phase, 10 devices have been produced and are currently at different testing stages. As part of the ongoing development of its patented and proprietary QRNG technology, development work and testing on the QRNG2 platform as a phase for new cloud-based applications is ongoing and the Company no longer has the intention to commercialize the first iteration of these prototypes

During the course of the year the Company increased the velocity of its R&D activities and product developments. Secured messenger, blockchain application and other verticals are the focus of the company for the application and usage in products of its patented technology.

On January 25, 2023, Quantum announced the launch of Sentry-Q its Quantum-safe messenger platform, designed for the secure communication of large and complex messages, including entire database structures. It has the potential to perform as a cloud-based solution or as a physical hardware device. The platform is versatile and flexible enough to be used in a multitude of applications, as a whole or in part.

Two weeks later, the Company announced a broad commercial and technical Agreement with Greybox Solutions, of Montreal. This partnership will enable Greybox's Digital Therapeutic product to take advantage of QeM's Quantum-Safe cryptographic platform.

Digital Therapeutics refers to the use of technology-driven solutions, such as mobile apps, wearable devices, and telemedicine, to deliver evidence-based interventions for the prevention, management, and treatment of various medical conditions. It aims to enhance patient outcomes by leveraging the benefits of technology such as patient health records convenience, accessibility, and real-time monitoring and feedback.

Patents

As of today, the Company owns two patent families which have been filed in several countries, and which have led to the issuance of several patents.

The first patent family stems from work performed at Sherbrooke University, by the team of Professor Bertrand Reulet, and was acquired by the Company.

As the Company required its patent to pass the introduction level with potential clients, it was then decided to work with the Company's patent agent to assess the patentability of our technology. The Company received the final report that indicates that it should continue the National/Regional Phase as planned. By doing the legwork at the stage of the patentability report, the Company was able to respond rapidly to objections which were raised at the national/regional level, such as objections raised by the European Patent Office ("EPO") examiner. The general scope of the first patent family is related to the use of a monitored flow of electrons across a quantum tunnelling barrier as a quantum random signal source which is then used to produce random numbers.

The second patent family stems from work performed internally by the family and generally concerns technology which was developed to eliminate non-quantum noise from the quantum signal and therefore allow ensuring that the random numbers are purely random and entirely based on quantum processes.

1.4 COMPANY OVERVIEW AND STRATEGY (Continued)

RESEARCH & DEVELOPMENT ACTIVITIES (Continued)

In October 2021, the Company filed for a patent application covering a minimalistic circuit which utilizes the computer's hardware to both power an on-chip quantum entropy source and turn the resulting entropy signal into random numbers of quantum origin on the go. The product will eventually be a plug-and-play ultraportable QRNG module that provides easy-to-use hardware protection for consumer electronics.

On June 19, 2022 Brazil became the latest major country to indicate its willingness to grant the METHOD FOR GENERATING RANDOM NUMBERS AND ASSOCIATED RANDOM NUMBER GENERATOR patent. Ongoing efforts are being made to ensure that all relevant jurisdiction are covered as the patents and our patent strategy is core to the success of the company.

On April 12, 2023, Quantum announced the recent patent application for a new method to operate a Blockchain Wallet that benefits from the protection provided by the QeM Quantum Random Number Generator (QRNG2). The market for hardware wallets has grown significantly in recent years due to the increasing demand for secure cryptocurrency storage solutions. According to a recent report by Markets and Markets, the global hardware wallet market is expected to grow from \$1.0 billion in 2020 to \$1.9 billion by 2025, at a compound annual growth rate (CAGR) of 13.5% during the forecast period. The growth of the hardware wallet market can be attributed to several factors, including the continuous adoption of cryptocurrencies after their recent volatility. QeM Quantum crypto-Wallet will eventually be considered one of the safest ways to store and manage cryptocurrencies, and they will become indispensable for anyone who wants to keep their digital assets highly secure.

Status of patents

First Patent Family Method for generating random numbers and associated random number generator

| <u>Country</u> | <u>Status</u> |
|------------------------|--|
| United States | Two patents were granted in the United States, including a first one granted on August 7, 2018 and a second granted on October 8, 2019. |
| Russia | Patent granted |
| European Patent Office | EPO granted the patent on February 19, 2020. The European Patent has been validated in a number of countries: Germany, Spain, Finland, France, Great-Britain, Italy and the Netherlands. |
| Thailand, India | Patent pending |
| Australia | Patent granted |
| China | Patent granted |
| Brazil | Patent granted |
| Canada | Patent granted |
| Republic of Korea | Patent granted |

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1.4 COMPANY OVERVIEW AND STRATEGY (Continued)

RESEARCH & DEVELOPMENT ACTIVITIES (Continued)

Second Patent Family Method and system for generating a random bit sample

| <u>Country</u> | <u>Status</u> |
|--|---|
| European Patent Office | EPO granted the patent on October 23, 2019. The European Patent has been validated in Germany, Spain, United Kingdom, Finland, France, Italy, Sweden and the Netherlands. |
| United States | Two patents were granted. |
| Australia, Brazil, Canada, China, India, Japan, South Korea, Thailand Indonesia | Patent pending Granted |
| Russia | Granted |

Third Patent Family System and Method for Generating a Random Number, and circuit for communicating an analog random signal

| <u>Country</u> | <u>Status</u> |
|---------------------------|---|
| Patent Cooperation Treaty | Rights reserved in all PCT member states until May 2024 |

BUSINESS DEVELOPMENT ACTIVITIES

Market

Since 2016, the Company focused its resources in developing its key IP position to align a successful venture in the emerging Quantum Random Number Generator (“QNRG”) market. The National Institute of Standards and Technology Post Quantum Cryptography Standards Committee is still working on related protocols, and we believe to have the right attributes to fulfill the future requirements for target markets.

In April 2021, the Company received a third-party valuation that concluded that the assessment of management on its target market was credible. The Company keeps a very tight monitoring on all news pertaining to the Quantum environment, and has, amongst other initiatives, joined the Quantum Alliance established by Hudson Institute to ensure a clear presence in the quantum ecosystem. Moreover, the CEO of the Company is now a valued panelist on the subject, bringing actionable intelligence in the Company with the newly established networks, both local and international.

The Company specifically intends to target the highly valued medical devices and Healthcare Services industries while ensuring its technology is also relevant and applicable to others, such as Datacenters, Blockchain technologies, Financial Services, Cloud-Based IT Security Infrastructure, Classified Government Networks and Communication Systems, Secure Device Keying (IOT, Automotive, Consumer Electronics) and Quantum computing and the gaming industry.

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1.4 COMPANY OVERVIEW AND STRATEGY (Continued)

RESEARCH & DEVELOPMENT ACTIVITIES (Continued)

In June 2022 the Company joined the Canadian Association of Defense and Security Industries and attended the CANSEC trade show. The attendance confirmed the relevance of the company's technology and the company will actively follow up for potential collaboration with key players of the industry.

In July 2022 the company's CEO made a joint presentation with École de Technologie Supérieure to Mr. Pierre Fitzgibbon, the Quebec Minister of Economy and Innovation. Representing the ETS was François Gagnon, General Manager and Christian Casanova, director of research and partnership. The purpose of the presentation was to illustrate the collaboration between a major Technological Engineering University and a Quebec-based startup, in the development of a product in the Quantum space. Quantum technology development is strongly supported by the Quebec Government who has announced some major investments in that space in 2022. The Company announced that one of its first products could be commercialized within a relatively short timeframe and it was therefore, relevant that this be brought to the attention of the Minister, as the Company is one of the first and only Quebec based company known to management to be in such a position. On August 15, 2022 the Company announced the completion of the design of its first blockchain application of QRNG technology developed in collaboration with ETS. The company is working in expanding its collaboration with the Quebec Government.

1.5 HIGHLIGHTS

For the year ended December 31, 2022, the Company incurred a net loss and comprehensive loss of \$2,804,570 compared to a net loss and comprehensive loss of \$1,562,648 in 2021.

As at December 31, 2022, the Company had a net working capital (current assets in excess of current liabilities) of \$3,286,177 compared to a net working capital of \$1,809,871 as at December 31, 2021.

In November 2022, 2 officers (insiders) of the company bought shares on the open market, disclosed through the regulatory authorities.

1.6 SELECTED PERIODIC INFORMATION

| | Year ended December 31 | | |
|----------------------------------|------------------------|-------------|-----------|
| | 2022 | 2021 | 2020 |
| | \$ | \$ | \$ |
| Net loss and comprehensive loss | (2,804,570) | (1,562,648) | (799,251) |
| Basic and diluted loss per share | (0.021) | (0.015) | (0.013) |

| | Balance as at | |
|-------------------|-------------------|-------------------|
| | December 31, 2022 | December 31, 2021 |
| | \$ | \$ |
| Cash | 2,594,051 | 1,021,552 |
| Total assets | 4,037,934 | 3,100,850 |
| Total liabilities | 377,754 | 389,431 |
| Equity | 3,660,180 | 2,711,419 |

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1.7 OPERATING ACTIVITIES

The net loss and comprehensive loss for the year ended December 31, 2022 increased to \$2,804,570 from a net loss and comprehensive loss of \$1,562,648 in 2021. In addition to the increase in the loss on fair value remeasurement of investments of \$113,082, the variance is explained by the loss on derecognition of intangible assets of \$568,580, an increase in management fees of \$312,146, in share-based payments of \$278,246, in research and development of \$154,649, offset by a decrease in filing and listing fees of \$97,550, and in consulting fees of \$74,509.

1.8 INTELLECTUAL PROPERTY

The carrying amount of the intellectual property consists of:

| | Licenses \$ | Development costs \$ | Total \$ |
|---|----------------|----------------------------|------------------|
| Cost | | | |
| December 31, 2020 | 446,112 | 220,967 | 667,079 |
| Additions | - | 339,886 | 339,886 |
| December 31, 2021 | 446,112 | 560,853 | 1,006,965 |
| Additions | - | 7,727 | 7,727 |
| Derecognition | - | (568,580) | (568,580) |
| December 31, 2022 | 446,112 | - | 446,112 |
| Accumulated amortization and loss on derecognition | | | |
| December 31, 2020 | 27,499 | - | 27,499 |
| Amortization | 22,305 | - | 22,305 |
| December 31, 2021 | 49,804 | - | 49,804 |
| Amortization | 22,305 | - | 22,305 |
| December 31, 2022 | 72,109 | - | 72,109 |
| Net book value | | | |
| December 31, 2021 | 396,308 | 560,853 | 957,161 |
| December 31, 2022 | 374,003 | - | 374,003 |

On August 3, 2016, the Company entered into an intellectual assignment agreement (“IP agreement”) with Societe de Commercialisations des Produits de la recherche appliquee SOCPRA Sciences et Genie SEC (“SOCPRA”) and its investors. Until the expiry of the last patent rights, which is expected in May 2035, the Company will pay to SOCPRA a royalty of 5% calculated on the net sales price of products sold by the Company. The Company may have an option to buy back the royalties in the future at terms and conditions to be agreed upon by both parties.

The development costs capitalized as at December 31, 2021 related to the development of prototypes. During the year ended December 31, 2022, the Company derecognized these development costs as a result of the decision to focus on the development of a cloud-based version of the prototypes in order to maximize the economic benefits of the technology. As a result, the Company no longer has the intention to commercialize the first iteration of these prototypes. The decision was taken in light of discussions with stakeholders and management assessment of most efficient and market receptive path to commercialization.

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1.9 SELECTED FINANCIAL INFORMATION AND OPERATING RESULTS

| | Year ended December 31 | |
|---|------------------------|-------------|
| | 2022 | 2021 |
| | \$ | \$ |
| Expenses | | |
| Management fees | 634,746 | 322,600 |
| Loss on derecognition of intangible assets | 568,580 | - |
| Share-based payments | 541,991 | 263,745 |
| Research and development | 271,804 | 205,187 |
| Professional fees | 242,182 | 62,522 |
| Office | 96,242 | 117,155 |
| Salaries | 95,955 | 27,809 |
| Investor relations | 69,858 | 124,873 |
| Filing and listing fees | 44,855 | 142,405 |
| Consulting fees | 44,400 | 118,909 |
| Travel | 41,514 | 31,962 |
| Promotion expenses | 34,846 | 47,154 |
| Information technology | 32,091 | 68,786 |
| Amortization | 22,305 | 22,305 |
| Insurance | 19,683 | 16,399 |
| | <hr/> | <hr/> |
| | 2,761,052 | 1,571,811 |
| Net loss and comprehensive loss for the year | <hr/> | <hr/> |
| | 2,804,570 | 1,562,648 |
| Basic and diluted loss per share | | |
| | <hr/> | <hr/> |
| | 0.021 | 0.015 |
| Weighted average number of common shares outstanding | | |
| | <hr/> | <hr/> |
| | 134,474,811 | 103,961,043 |

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| | Three months ended December 31 | |
|---|--------------------------------|--------------------|
| | 2022 | 2021 |
| | \$ | \$ |
| Expenses | | |
| Loss on derecognition of intangible assets | 568,580 | - |
| Management fees | 245,996 | 80,650 |
| Share-based payments | 128,261 | 29,745 |
| Professional fees | 53,797 | 42,562 |
| Research and development | 63,004 | 29,289 |
| Salaries | 33,359 | 22,022 |
| Office | 18,384 | 15,631 |
| Promotion expenses | 17,330 | 11,789 |
| Travel | 10,718 | 7,991 |
| Investor relations | 6,842 | 11,218 |
| Amortization | 5,623 | 5,621 |
| Insurance | 5,032 | 4,778 |
| Consulting fees | 2,520 | 29,727 |
| Filing and listing fees | 2,484 | 27,099 |
| Information technology | 1,682 | 17,197 |
| | <u>1,163,612</u> | <u>335,317</u> |
| Net loss and comprehensive loss for the year | <u>1,053,975</u> | <u>270,993</u> |
| Basic and diluted loss per share | <u>0.008</u> | <u>0.002</u> |
| Weighted average number of common shares outstanding | <u>135,502,838</u> | <u>113,585,385</u> |

The increase in the year over year loss for the three months ended December 31 2022 is explained by the loss on derecognition of intangibles assets of 568,580\$, the increase in management fees of 165,346\$, in share-based payments of 98,516\$ and in research and developments of 33,715\$.

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1.10 SUMMARY OF QUARTERLY RESULTS

The following table sets forth selected quarterly financial information for each of the twelve most recently completed quarters.

| <u>Three-month period ended</u> | <u>Net loss and comprehensive loss for the period</u> | <u>Basic and diluted loss per share</u> |
|---------------------------------|---|---|
| | \$ | \$ |
| December 31, 2022 | (1,053,975) | (0.008) |
| September 30, 2022 | (517,750) | (0.004) |
| June 30, 2022 | (541,048) | (0.004) |
| March 31, 2022 | (691,801) | (0.005) |
| December 31, 2021 | (270,993) | (0.002) |
| September 30, 2021 | (441,798) | (0.004) |
| June 30, 2021 | (411,733) | (0.004) |
| March 31, 2021 | (438,124) | (0.005) |
| December 31, 2020 | (389,272) | (0.006) |
| September 30, 2020 | (132,789) | (0.002) |
| June 30, 2020 | (119,342) | (0.002) |
| March 31, 2020 | (157,848) | (0.003) |

1.11 LIQUIDITY

As at December 31, 2022, the Company had a net working capital (current assets in excess of current liabilities) of \$3,286,177 compared to a net working capital of \$1,809,871 in December 31, 2021.

1.12 CASH FLOWS

The Company's operating activities used \$1,617,810 for the year ended December 31, 2022, compared to \$1,467,710 in 2021. The decrease in cash flow used is related to payments executed for prior period expenses.

The Company's investing activities used \$21,031 for the year ended December 31, 2022, compared to \$1,339,907 used in 2021. The decrease in cash flows used resulted mainly from the acquisition of investments offset by the proceeds from sale of investments.

The Company's financing activities generated \$3,211,340 for the year ended December 31, 2022, compared to \$3,808,539 in 2021. There were no cash flows generated in 2022 with regards to share issuance, which was partially offset by an increase in proceeds from exercise of warrants and conjointly explains the slight decrease in cash flows generated from financing activities.

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1.13 STOCK OPTIONS

The Company's share options are as follows for the reporting periods presented:

| | December 31, 2022 | | December 31, 2021 | |
|--|-------------------|---------------------------------|-------------------|---------------------------------|
| | Number of options | Weighted average exercise price | Number of options | Weighted average exercise price |
| | | \$ | | \$ |
| Balance outstanding, beginning of year | 10,930,000 | 0.13 | 6,650,000 | 0.07 |
| Granted | 1,100,000 | 0.15 | 5,880,000 | 0.18 |
| Exercised | (250,000) | 0.10 | (1,600,000) | 0.06 |
| Expired | (850,000) | 0.20 | - | - |
| Balance outstanding, end of year | 10,930,000 | 0.12 | 10,930,000 | 0.13 |
| Balance exercisable, end of year | 8,329,375 | 0.11 | 7,046,875 | 0.11 |

The weighted average remaining contractual life for options outstanding at December 31, 2022 is 2.18 (December 31, 2021 – 2.64) years.

Share-based compensation recognized under this plan amounted to \$541,991 for the year ended December 31, 2022 (2021 - \$263,745).

The Company's share options are as follows for the reporting periods presented:

Outstanding and exercisable options are as follows:

| Expiry date | Exercise price | December 31, 2022 | |
|--------------------|----------------|-------------------|-------------|
| | | Outstanding | Exercisable |
| | \$ | | |
| March 31, 2023 | 0.23 | 300,000 | 300,000 |
| June 6, 2023 | 0.205 | 350,000 | 350,000 |
| November 22, 2023 | 0.10 | 100,000 | 100,000 |
| December 17, 2023 | 0.05 | 2,500,000 | 2,500,000 |
| December 22, 2023 | 0.065 | 750,000 | 750,000 |
| February 2, 2024 | 0.14 | 2,500,000 | 2,500,000 |
| September 12, 2024 | 0.12 | 250,000 | 250,000 |
| March 31, 2025 | 0.10 | 150,000 | 150,000 |
| March 31, 2025 | 0.12 | 50,000 | 50,000 |
| March 31, 2025 | 0.18 | 650,000 | 284,375 |
| September 30, 2025 | 0.15 | 150,000 | 150,000 |
| October 25, 2025 | 0.24 | 80,000 | 20,000 |
| March 31, 2026 | 0.08 | 600,000 | 50,000 |
| April 21, 2026 | 0.24 | 500,000 | 500,000 |
| January 26, 2028 | 0.14 | 500,000 | 125,000 |
| March 12, 2028 | 0.215 | 500,000 | 125,000 |
| August 23, 2028 | 0.265 | 500,000 | 125,000 |
| February 14, 2029 | 0.225 | 500,000 | - |
| | | 10,930,000 | 8,329,375 |

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1.14 SHARE PURCHASE WARRANTS

The Company's warrants are as follows for the reporting periods:

| | <u>December 31, 2022</u> | | <u>December 31, 2021</u> | |
|--|-------------------------------|--|-------------------------------|--|
| | <u>Number of warrants</u> | <u>Weighted average exercise price</u> | <u>Number of warrants</u> | <u>Weighted average exercise price</u> |
| | | \$ | | \$ |
| Balance outstanding, beginning of year | 28,115,000 | 0.15 | - | - |
| Granted | - | - | 40,000,000 | 0.15 |
| Exercised | (21,240,000) | 0.15 | (11,885,000) | 0.15 |
| Expired | (6,875,000) | 0.15 | - | - |
| Balance outstanding, end of year | - | - | 28,115,000 | 0.15 |

1.15 OFF-BALANCE SHEET ARRANGEMENTS

The Company does not have any off-balance sheet arrangements.

1.16 FINANCIAL INSTRUMENTS

All financial instruments are recognized when the Company becomes a party to the contractual provisions of the financial instrument and are initially measured at fair value plus transaction costs, except for financial assets and financial liabilities carried at fair value through profit or loss, which are measured initially at fair value. Financial assets are derecognized when the contractual right to the cash flows from the financial assets expire, or when the financial asset and all substantial risks and rewards are transferred. Refer to Note 11 of the annual financial statements for the year ended December 31, 2022 for additional information on the Company's financial instruments.

1.17 FINANCIAL RISK MANAGEMENT

In the normal course of operations, the Company is exposed to various financial risks. Refer to Note 11 of the annual financial statements for the year ended December 31, 2022 for additional information on the Company's main financial risks.

1.18 MANAGEMENT OF CAPITAL

The capital structure of the Company consists of equity attributable to common shareholders, comprising issued share capital, reserves and deficit. The Company's objectives when managing capital are to: (i) preserve capital; (ii) obtain the best available net return; and (iii) maintain liquidity.

The Company manages the capital structure and makes adjustments to it in light of changes in economic conditions and the risk characteristics of the underlying assets. To maintain or adjust the capital structure, the Company may attempt to issue new shares. There were no changes to the Company's approach to capital management during the year ended December 31, 2022, nor during the year ended December 31, 2021.

The Company is not subject to externally imposed capital requirements.

1.19 RELATED PARTY TRANSACTIONS

The Company's related parties include insiders, companies under common control and joint key management.

Unless otherwise stated, none of the transactions incorporate special terms and conditions and no guarantees were given or received. Outstanding balances are usually settled in cash.

Transactions with key management

The key management of the Company are the members of senior management and the Board. The remuneration for the year of key management (including the amount above) is as follows:

| | <u>2022</u> | <u>2021</u> |
|----------------------|----------------|----------------|
| | \$ | \$ |
| Management fees | 634,746 | 322,600 |
| Share-based payments | <u>356,168</u> | <u>90,000</u> |
| | <u>990,914</u> | <u>412,600</u> |

As at December 31, 2022, an amount of \$787 is due to key management and is included in accounts payable and accrued liabilities (December 31, 2021 - \$72,564).

1.20 CRITICAL ACCOUNTING ESTIMATES AND JUDGEMENTS

The critical accounting estimates and judgements are described in Note 2 of the annual financial statements for the year ended December 31, 2022.

1.21 CHANGES IN SIGNIFICANT ACCOUNTING POLICIES

The accounting policies used are those described in the Company's annual financial statements in Note 3 for the year ended December 31, 2022 and have been applied throughout the period unless otherwise stated.

1.22 OTHER

Disclosure of Outstanding Securities as at May 1, 2023.

Outstanding common shares: **135,502,838**
Outstanding options: **10,930,000**
Outstanding share purchase warrants: **nil**

(s) Francis Bellido, Chief Executive Officer

(s) Marc Rousseau, Chief Financial Officer

Montreal (Quebec), May 1, 2023