



# CIELO

Fueling the Sustainable  
Energy Transition

## CORPORATE PRESENTATION

Cielo Waste Solutions Corp.  
December 2022

TSXV: **CMC**  
OTCQB: **CWSFF**  
WKN: **C36**

# CAUTIONARY STATEMENT

**Summary: If you are risk-adverse you should NOT buy shares of Cielo Waste Solutions Corp. Unexpected events happen and may change forecasts and targets. This presentation should be read in conjunction with the Company's most current annual information form and management discussion and analysis, which are available on SEDAR at [www.sedar.com](http://www.sedar.com).**

This presentation contains forward-looking statements and forward-looking information (collectively "forward-looking information") within the meaning of applicable Canadian securities laws. Forward-looking information may relate to anticipated events or results and may include information regarding our financial position, business strategy, growth strategies, budgets, operations, financial results, plans and objectives. Particularly, information regarding our expectations of future results, performance, achievements, prospects or opportunities or the markets in which we operate is forward-looking information. In some cases, forward-looking information can be identified by the use of forward-looking terminology such as "anticipate", "plan", "target", "continue", "estimate", "expect", "may", "will", "project", "should", "could", "believe", "predict", "potential", "scheduled", "estimates", "forecast", "projection". In addition, any statements that refer to expectations, intentions, projections or other characterizations of future events or circumstances contain forward-looking information. Statements containing forward-looking information are not historical facts nor assurances of future performance but instead represent management's expectations, estimates and projections regarding future events or circumstances.

This presentation contains forward-looking information that includes, but is not limited to: the Company's aspirations of the Company being to lead the waste-to-fuels industry using environmentally friendly, economically sustainable technology; the anticipated results of the R&D Facility and its ability to provide specific data for commercialization; timing with respect to the full-scale facility; the ability of the proprietary technology to produce high-quality fuels; the ability to acquire readily available feedstocks at low costs and the ability for this to provide flexibility to drive excellent refining margins and opportunities for strategic partnerships with waste suppliers; the ability of the proprietary technology to actively reduce emissions and GHGs, with no harmful emissions; the effect of the proof of concept at the Aldersyde Facility; the anticipated expansion of the types of feedstocks to be tested at the R&D Facility; the timeline for the R&D Facility; the efficient transition of the Aldersyde site to house the R&D Facility; the ability of the Company to leverage existing infrastructure and manpower in the Aldersyde facility; the timing for the design and commissioning of the R&D Facility; the ability to apply the operational experience and philosophy from the Aldersyde Facility to the R&D Facility; the anticipated results of the R&D Facility and the impact on commercialization and the design of future facilities; the steps to be taken with respect to the design of the full-scale facility; the Company's commitment to a robust health, safety and environment (HSE) system; descriptions of Cielo's future waste-to-fuel production processes, including their emissions and impacts on the environment; that Cielo's processes can transform household and industrial waste into valuable fuel; our business objectives and planned milestones for 2022, 2023 and beyond; and descriptions, plans and expectations related to Cielo's facilities, generally. Forward-looking information is necessarily based on a number of opinions, estimates and assumptions that management considered appropriate and reasonable as of the date such statements are made, are subject to known and unknown risks, uncertainties, assumptions and other factors that may cause the actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information, including but not limited to the risks factors described under the heading entitled "Risk Factors" in the Company's disclosure documents (such as Management's Discussion and Analysis and Annual Information Form), which are available on SEDAR at [www.sedar.com](http://www.sedar.com).

If any of these risks or uncertainties materialize, or if the opinions, estimates or assumptions underlying the forward-looking information prove incorrect, actual results or future events might vary materially from those anticipated in the forward-looking information. The opinions, estimates or assumptions referred to above and the risks described in greater detail in "Risk Factors" in the Company's disclosure documents (such as Management's Discussion and Analysis and Annual Information Form) should be considered carefully by readers. These risk factors should not be construed as exhaustive. Although we have attempted to identify important risk factors that could cause actual results to differ materially from those contained in forward-looking information, there may be other risk factors not presently known to us or that we presently believe are not material that could also cause actual results or future events to differ materially from those expressed in such forward-looking information. There can be no assurance that such information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Forward-looking information is provided in this presentation for the purpose of giving information about management's current expectations and plans and allowing investors to get a better understanding of our operating environment. Investors are cautioned that it may not be appropriate to use such forward-looking information for any other purpose.

The forward-looking information contained in this presentation represents management's expectations as of the date of this presentation (or as the date they are otherwise stated to be made) and are subject to change after such date. Except as specifically required under applicable securities laws in Canada, Cielo assumes no obligation to publicly update or revise any forward-looking information to reflect new information, events or circumstances that may arise after August 15, 2022. All forward-looking information contained in this presentation is expressly qualified by the foregoing cautionary statements.

This presentation does not constitute an offer to sell or a solicitation of an offer to buy any securities of the Company in the United States. The securities of the Company have not been, and will not be, registered under the United States Securities Act of 1933, as amended, or any state securities laws, and such securities may not be offered or sold in the United States or to U.S. persons unless registered or exempt therefrom.

# Fueling the Sustainable Energy Transition



**CIELO**

# CIELO WASTE SOLUTIONS

A waste to fuel environmental technology company whose goal is to transform waste materials into fuels without harmful emissions



**EARLY MOVER, INNOVATIVE PROCESS,  
UNIQUE BUSINESS MODEL**

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**PROOF OF CONCEPT FOR WOOD BIOMASS  
ACHIEVED AT DEMONSTRATION FACILITY<sup>3</sup>**

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**R & D FACILITY TO PROVIDE SPECIFIC  
DATA FOR COMMERCIALIZATION**

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**FULL SCALE FACILITY DESIGN PLANNED  
FOR 2023**

**NOTE:** All references to specific Quarters in this presentation are based on **calendar Quarters**.



**PROPRIETARY TECHNOLOGY**

Producing high-quality fuels

**LOW INPUT COSTS**

Readily available, waste feedstock

**ESG<sup>1</sup>-CENTRIC BUSINESS MODEL**

Actively reducing emissions & GHGs<sup>2</sup>

**POTENTIAL CARBON CREDIT  
UPSIDE**

Additional revenue potential

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# INVESTMENT OVERVIEW

## A circular economy company to support the Energy Transition



### Aldersyde Facility Proves Concept

- Production achieved at the facility<sup>1</sup>
- Allows for fit-to-purpose, flexible facility design, production scaling relative to feedstock supply, type and location



### Proprietary Process and Technology

- Innovative process represents sustainable alternative to carbon-intensive fossil fuel extraction
- Patents issued in Canada and the US



### Energy Transition Play with R&D Focus

- Process addresses ongoing demand for hydrocarbon fuels through the energy transition
- R&D facility to expand range of feedstocks, enhance efficiencies, and drive technological advancements



### Early Mover Advantage in Vast TAM<sup>2</sup>

- Limited competition, early mover with near-term commercial facility design
- Opportunity to both define and capture addressable market share



### Low-Cost Feedstocks Drive Optimal Margins

- Readily available, low-cost feedstocks provide opportunity and flexibility to drive excellent refining margins
- Opportunities for strategic partnerships with waste suppliers

# INNOVATIVE LOW-CARBON PROCESS

**Cielo's Thermal Catalytic Depolymerization technology has received patents in both Canada and the U.S.**

## NO HARMFUL EMISSIONS OR GHGs

Reduces emissions, harmful waste and reliance on imported biofuels

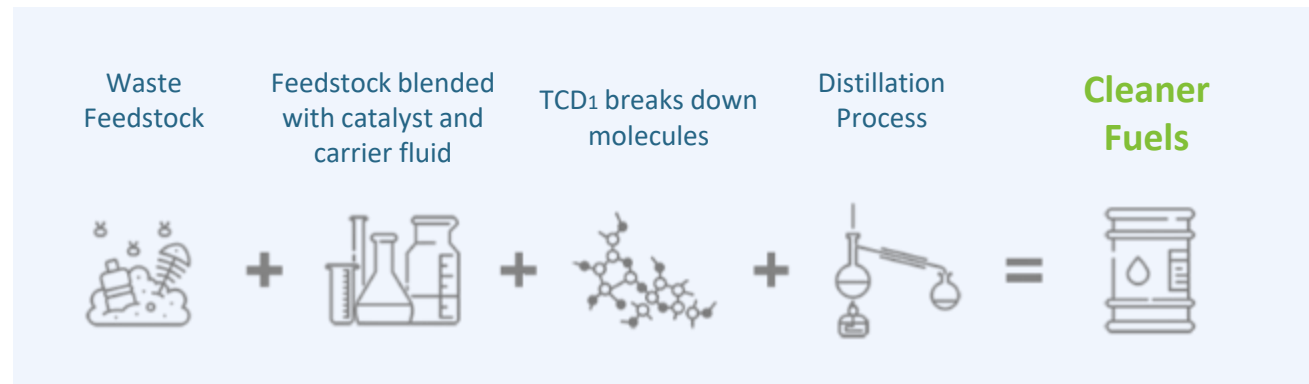
## LOW CARBON FOOTPRINT

Feedstocks combine with catalyst & carrier fluid

## WASTE-TO-FUELS

Distillate can be refined to produce diesel, naphtha and kerosene

**Cielo's process can transform waste into valuable fuel diverting it from other more carbon intensive processes**



# CLEAR PATH TO COMMERCIALIZATION

A clear focus on commercialization positions Cielo for growth through 2022 and beyond

## R&D Facility

Ongoing fabrication of R&D Facility

## R&D Facility<sup>1</sup>

Delivery and commissioning of facility

## R&D Facility Feedstock Trials<sup>1</sup>

2023  
Railroad ties, plastics, rubber, organics

2022 OBJECTIVES

2023

## Aldersyde Location

Preparation to transition to the R&D Facility

## Commercial Facility Design

2023  
Full-scale facility design to commence

**NOTE:** All references to specific quarters in this presentation are based on **calendar quarters**

# COMMERCIALIZATION STRATEGY

Development of R&D Facility at Aldersyde drives Cielo's operations on a path to commercialization

**NEAR-TERM  
OPERATIONS**



## **(1) PROOF OF CONCEPT ACHIEVED**

Achievement of steady-state production at Aldersyde Facility<sup>1</sup>



## **(2) CONSTRUCTION OF R&D FACILITY AT ALDERSYDE**

To facilitate testing of railway ties and pen shavings initially<sup>2</sup>



# R&D FACILITY AT ALDERSYDE - OVERVIEW

## Full-time research facility designed to mimic a full-scale process

- ◆ Existing infrastructure and manpower will be leveraged in Aldersyde facility
- ◆ Design commenced Q1 2022; commissioning expected Q1 2023
- ◆ Design parameters for R & D facility to mimic full-scale facility

### SCALED-DOWN VERSION OF FULL-SCALE FACILITY

- ◆ Equipped with latest process control technology for data trending, system automation, remote monitoring and process analytics

### OBJECTIVES

Determine optimal reactor configuration

1. Improve carbon intensity score
2. Determine best operational practices
3. Testing multiple feedstocks (i.e. railway ties and pen shavings initially, and thereafter rubbers, organics, etc)

**Future center of excellence with operator training center**

**Continuous improvement to be reflected in assessing new facilities and opportunities for Cielo**

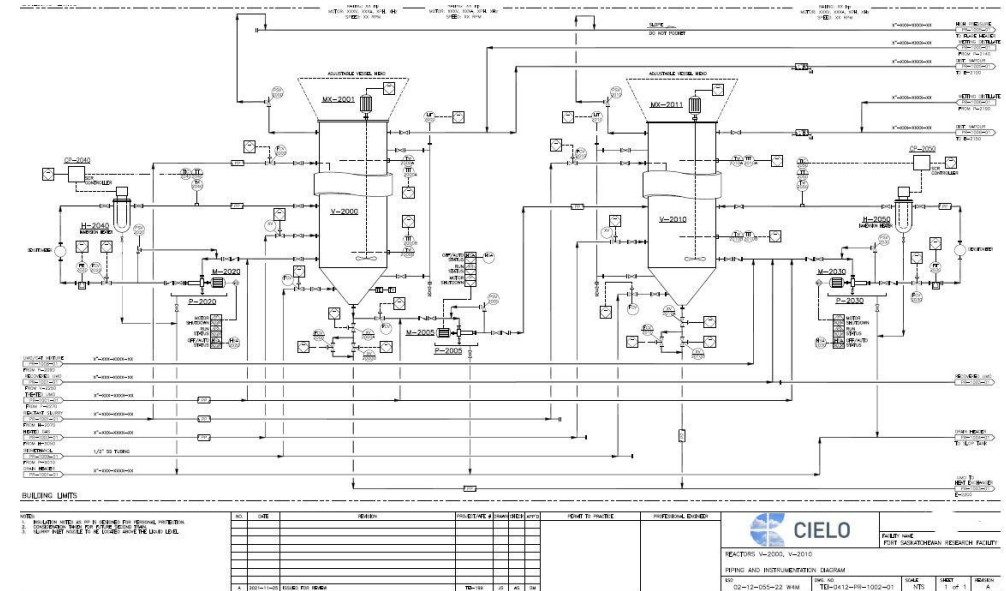


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# R&D TO STATE-OF-ART COMMERCIALIZATION

## First Full-Scale Facility

- ◆ Data generated by R&D Facility will facilitate inputs for scale-up design
- ◆ Engineering simulation models will be built for equipment sizing, process control philosophy, material balance
- ◆ Cielo engineering and operations teams will develop design basis memorandum (DBM) from real learnings and data generated by the Aldersyde Facility<sup>1</sup>



# RIGHT-FIT LEADERSHIP FOR NEW GROWTH PHASE

The right combination of experience and skill to strategize and lead Cielo's commercialization



**Ryan Jackson**  
Chief Executive Officer

- ◆ 30 years' experience in building businesses in real estate, retail franchise businesses and clean technology
- ◆ Member of the Institute of Certified Management Consultants of Alberta
- ◆ Director since May of 2021



**Jasdeep K. Dhaliwal**  
Chief Financial Officer

- ◆ Extensive experience in risk management, financial reporting process and internal controls
- ◆ Chartered Professional Accountant
- ◆ Director since April of 2021 and former Audit Committee Chair



**Ryan Carruthers**  
Executive Vice President, Operations

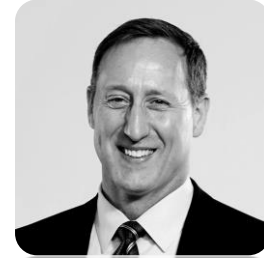
- ◆ Over 20 years' experience in leadership and operation roles within the resource sector
- ◆ Track record of successful process optimization and operational excellence

# BOARD OF DIRECTORS



**Larry Schafran**, Chair of the Board

Larry is a private investor with interests in disruptive technologies. Mr. Schafran recently co-founded an oil & gas recovery company, Legacy Oil Inc. Later, Mr. Schafran served as a Director and member of the Strategic Planning and Finance Committee at COMSAT, where he promoted a merger with Lockheed Martin. Larry has served as Director and Chair on many boards.



**Peter MacKay**, Director

The Honorable Peter MacKay will be providing strategic advice and invaluable guidance on government and public services, industry practice, infrastructure, and economic development. Mr. MacKay will be representing the company as a catalyst to Cielo's growth.



**Sheila A. Leggett**, Director

Sheila currently serves on the advisory board for Nutana Power and chairs the technical committee responsible for the ISO environmental management systems standards (14000 series). Ms. Leggett is a strategic leader, has extensive expertise as it concerns corporate governance, and a background in sustainable resource development.



**Ryan Jackson**, Director and CEO

Ryan is a seasoned executive with extensive experience in real estate, finance, franchise businesses, and green technology. Mr. Jackson is a spirited entrepreneur with great vision and insight and has extensive board experience. Mr. Jackson will deliver that experience and governance to the Cielo Board.

# CAPITAL STRUCTURE

<b>Share Price (CAD)</b>	<b>\$0.045</b>
52 Week High/Low (CAD)	\$0.46/\$0.035
Market Cap (CAD)	\$37,316,560 <sup>1</sup>
Shares Outstanding	829,256,895 <sup>1</sup>
Options, RSUs, DSUs	17,211,711 <sup>1</sup>
Warrants	203,187,445 <sup>1</sup>
Insider %	5.5% <sup>1</sup>
Fully Diluted	1,049,656,051 <sup>1</sup>

As of December 9, 2022<sup>1</sup>



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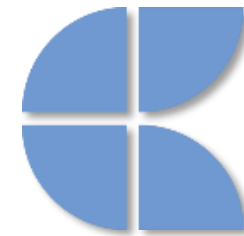
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Trevor Brucato, Managing Director

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