



# Tersa

Reclaim the future

Innovating For A Greener Future

April 2024



**THE 3 BIGGEST ISSUES  
FACING HUMANKIND ARE  
WATER SECURITY,  
ENERGY SYSTEMS,  
AND HEALTH**

**WE ARE AN SOLUTION THAT  
ADDRESSES ALL 3**

The shift to electrification and net zero will require more metals and mining for battery systems

**THERE IS ONE  
BIG PROBLEM**

## ACID ROCK DRAINAGE (ARD)

A toxic by-product of mining can be hazardous to the environment and poses huge liability considerations

IN NORTH AMERICA ALONE

**\$20 BILLION VALUE OF METALS LOST  
IN ARD TAILING PONDS EVERY YEAR**

TRADITIONAL TREATMENT

**3,000 TONNES OF CARBON  
DIOXIDE EMITTED FOR 10,000 M<sup>3</sup>  
OF ARD TREATED**

TERSA CAN ADDRESS

**200 MILLION  
TONNES OF  
CARBON  
EMMISSIONS**

**BY REPLACING THIS PROCESS WE WILL  
SIGNIFICANTLY DECREASE CARBON OUTPUT  
AND TAX BURDENS FROM MINES**



RECLAIM **OUR PLANET**

RECLAIM **RESOURCES**

RECLAIM **HUMAN HEALTH**

RECLAIM **LOST PROFITS**

RECLAIM **OUR FUTURE**

Tersa Earth Innovations is a technology company that delivers essential metals needed for electrification and society's transition to net zero.

Our TersaClean process has enormous carbon abatement potential and addresses water security for critical infrastructure such as mines.

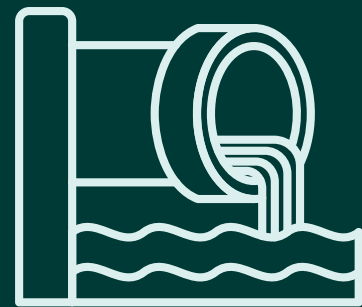
Our Solution

# TERSA EARTH TREATS MINE WASTE & TRANSFORMS LIABILITIES INTO OPPORTUNITY

Our solution can recover metals like copper and silver, neutralize water, and remove contaminants such as arsenic, iron and zinc



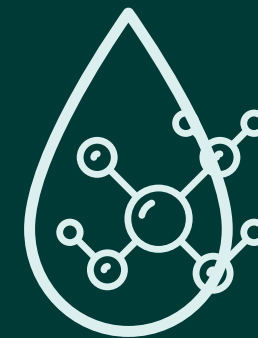
MINIMAL POWER  
CONSUMPTION



REDUCES SLUDGE  
CREATION



LOWERS GREENHOUSE  
GAS EMISSIONS



TREATS ARD

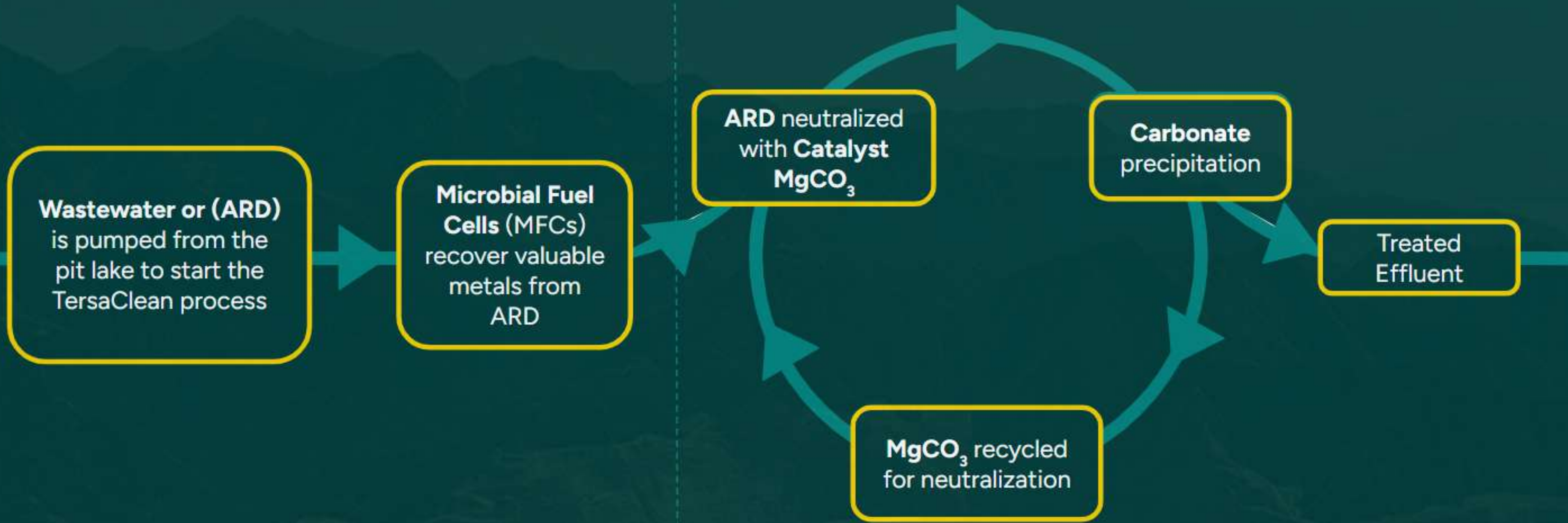


RECOVERS METALS  
IN SOLUTIONS



## Metal Recovery

## Neutralization & Contaminant Removal



# TersaClean

# PACE-SETTERS OF A GLOBAL TRANSFORMATION

Groundbreaking leaps with over 33 million data points gathered over the last two year period

## 1 | FUEL CELL ADVANCEMENTS

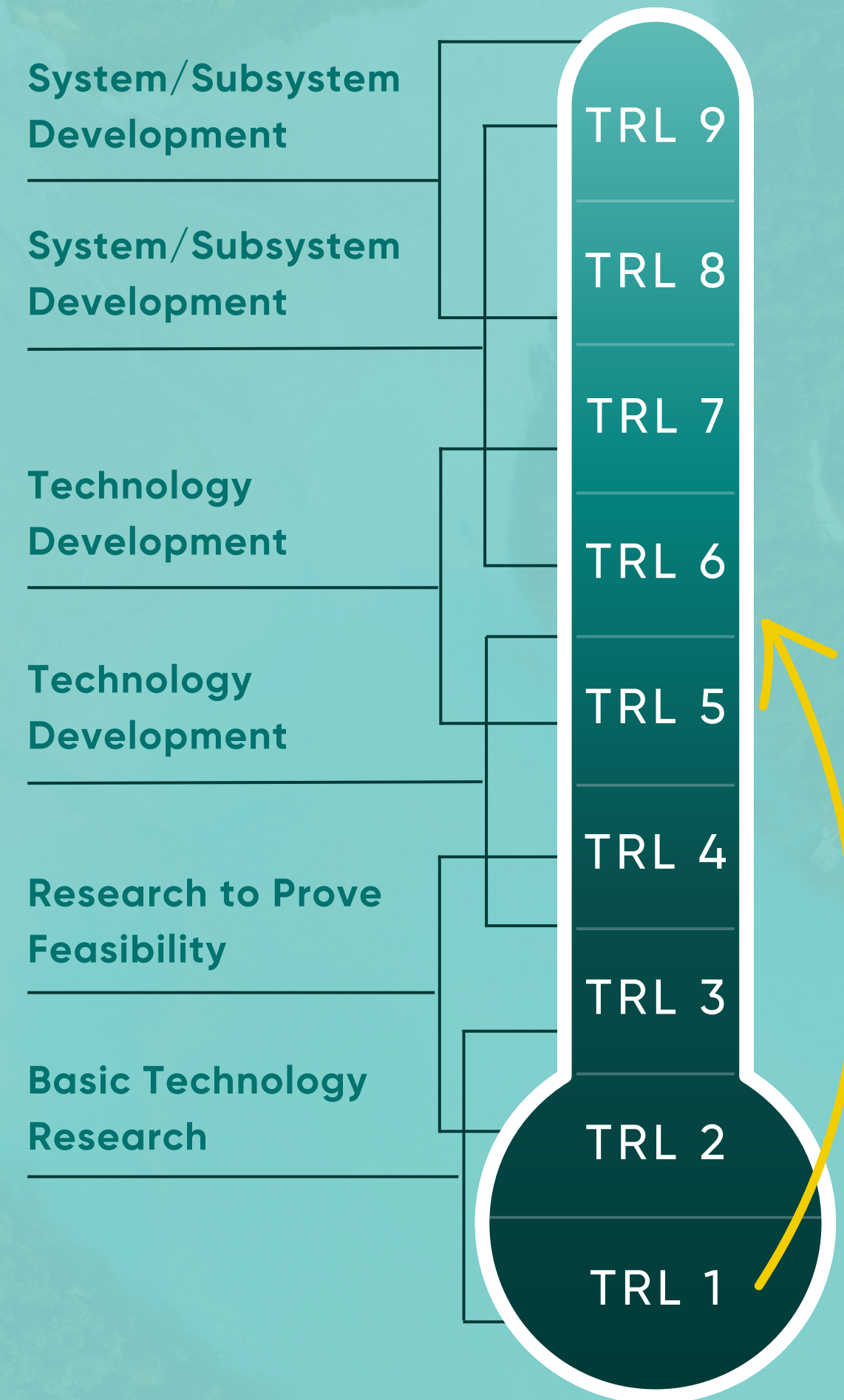
Scaled size 50 times  
Up to 95% Metal Recovery

## 2 | RAPID NEUTRALIZATION

100% effectiveness in neutralizing ARD in just five to seven hours.

## 3 | CONTAMINANT REMOVAL

100% Removal of contaminants such as Arsenic





# TERSACLEAN REVENUE MODEL



Our business model is built on four revenue streams:

- 01** Fixed service fee
- 02** Royalty revenues from recovered metals
- 03** Royalty revenues from carbon credits
- 04** Commission on reduction in insurance premiums and liability bond payments

Tersa is slated to begin generating revenue next quarter

# PARTNERSHIPS POWERING INNOVATION

Engineering and design experts, Motus, have backed Tersa Earth through investment and the building of our field units

“I’m thrilled with the partnership of our expert systems engineering team with Tersa’s visionary biotechnology research team. The technology has the potential to truly change the environmental and social impact of de-carbonization and electrification, and I’m honoured to be involved”

**JOSH ERICKSON**

*Founder & CEO, Motus Design Group*





# GLOBAL INDUSTRY PARTNERSHIPS

Tersa Earth has entered into preliminary agreements that are propelling the company forward through technological advancements, expanded networks, and invaluable connections

*\*LOCATION OF SITES TBC*





Tersa Earth has forged groundbreaking partnerships that are propelling the company forward through technological advancements, expanded networks, and invaluable connections

## **BHP**

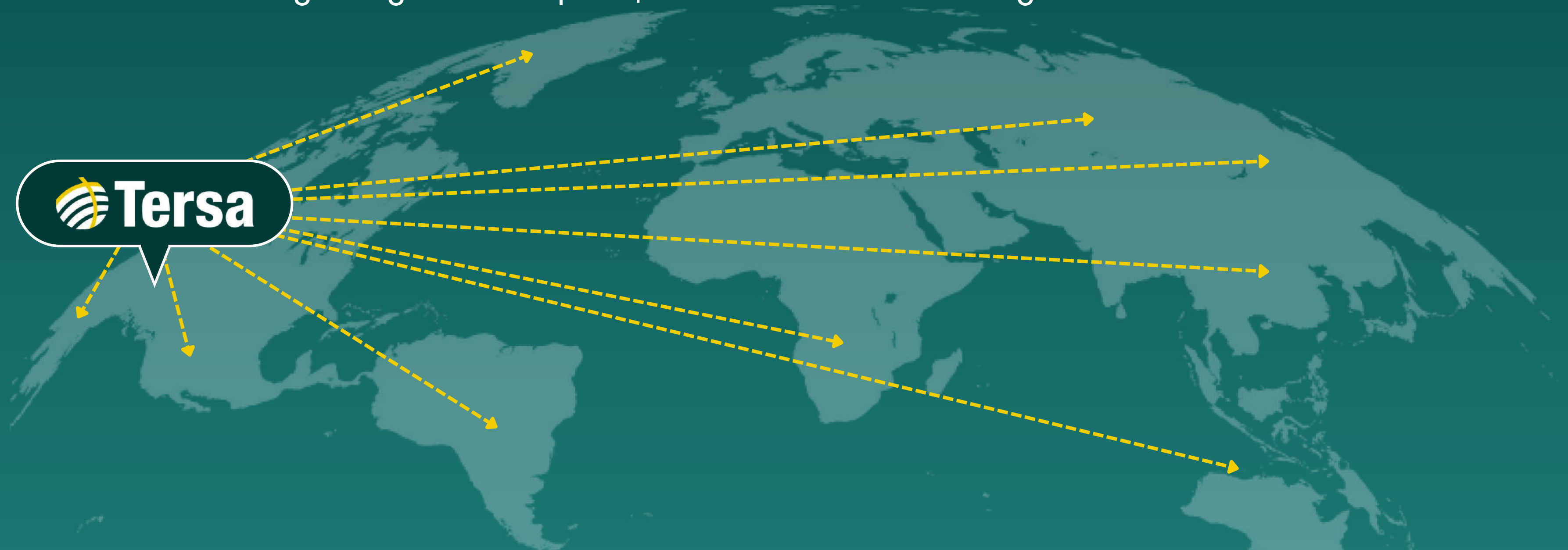
Tersa Earth won the BHP Global Water Challenge - from a pool of 166 applicants across 17 countries to embark on a journey alongside BHP, to shape the future of mining.

# COMMERCIALIZATION OF TECHNOLOGY



We are securing a facility in the Edmonton International Airport's Sustainability Campus, where we will **manufacture and ship commercialized TersaClean units**. This facility provides optimal access through air, rail, and road networks.

The location streamlines our logistical operations and opens the door to benefits including EIA grants of up to \$2 million and access to government tax rebates.





# TECH CAPABILITIES

Innovative Solutions for Diverse Environmental Challenges



## CRITICAL METAL EXTRACTION

Facilitating sustainable platinum group metals and pure metal extraction to meet the metals demand



## DECONTAMINATION

Removing toxic metals like Arsenic, Barium, Selenium, and Strontium from tailings for safer environments



## PFAS EXTRACTION

Removing PFAS (forever chemicals) from wastewater — the final mile in the cleanup process where other approaches have not worked

# ROADMAP TO COMMERCIALIZATION



2024

## SCALE & PILOT TESTING

- Fabrication of pilot to conduct field trials and validate technology at scale
- Delivery of pilot to facilities
- Testing of pilot unit for commercialization
- Generating revenue in Q2

2025

## FIELD TRIALS

- Field trials to operate at 3 mines

2026

## COMMERCIALIZATION

- Commercial Launch

Backed by a management team with a track record of generating significant shareholder value, and a Board of Directors and advisors with deep cross-functional expertise

## FOUNDERS & BOARD MEMBERS



Barinder Rasode  
Executive Chair  
Person



Stewart Muir  
Board Member



Josh Erickson  
Chief Technical  
Officer



Glen Clark  
Board Member



Victor Cantore  
Board Member

## MANAGEMENT & ADVISORS



Matt Tomich  
Advisor



Lyn Anglin  
Advisor



Grant Cool  
Consultant



Lisa Fuller  
HR



Our team of brilliant minds is on a mission to transform the extraction & processing of critical metals and minerals, paving the way for a greener future.

## SCIENCE INNOVATORS



Elesha Hoffarth, Ph.D.  
Research & Development Manager



Jordan Wright  
Bioprocess Engineer



Navya Mopati  
Bioprocess Engineer, MICP



Protiva Roy, Ph.D.  
Electrochemical  
Process Engineer



Satvik Chandar  
Process Engineer



Chaklin Leung  
Analytical Chemistry

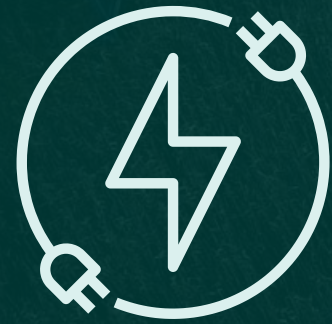


Natasha Kumari  
VP Operations & Marketing



WHY TERSA EARTH?

# NATURE'S GENIUS. OUR INNOVATION.



SELF-POWERED  
FUEL CELLS



ROBUST DESIGN



FAST, FLOW-BASED  
OPERATION



MODULAR & EASY  
TO SCALE



EFFECTIVE METAL  
RECOVERY

## TRANSFORMING LIABILITIES INTO OPPORTUNITIES



# RAISE OF FUNDS AND USE OF PROCEEDS

\$5 million  
at \$0.30/share

## SHARE CAPITAL STRUCTURE

Shares Outstanding	20,335,309
Warrants	8,766,700
Performance Warrants	15,000,000
Options	2,088,876
<b>Fully Diluted Pre-Money</b>	<b>46190885</b>
<b>Fully Diluted Post-Money</b>	<b>62,857,552</b>

\*All funds noted in CAD

## USE OF PROCEEDS

Tech & Business Development

Field Trials

## NON-DILLUTIVE FUNDING

Past grant funds awarded: \$354,000

Future grants (applied): Field trial cost matching at  
30% to 40% of funds raised



THANK YOU

[WWW.TERSA.EARTH](http://WWW.TERSA.EARTH)

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