



# SCANDIUM CANADA

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Scandium is the Metal  
of the Future  
at Scandium Canada,  
the Future is Now

Scandium Canada Inc.

February 2024

# FORWARD LOOKING STATEMENTS & DISCLAIMER

These remarks may contain forward-looking statements relating to the Company's operations or to its business environment. Such statements are based on the Company's operations, estimates, forecasts, and projections, but are not guarantees of future performance and involve risks and uncertainties that are difficult to predict or control. A number of factors could cause actual outcomes and results to differ materially from those expressed. These factors include those set forth in the corporate filings.

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# SCANDIUM CANADA

Scandium Canada Ltd. is currently developing one of the largest primary scandium projects in the world with a vision to contribute to society's goal to reduce carbon emissions to net zero.

A preliminary economic assessment (PEA) on the project has been released in 2022, a 43-101 resource estimate update has been filed in June 2023 and a pre-feasibility study is underway

TSXV: SCD  
OTCQB: SCDCF



# WHAT IS SCANDIUM?

Scandium is a silvery-white metal that belongs to the transition metals group of the periodic table.

**Metal Properties:** Scandium is a lightweight metal with a density similar to aluminum. It has a high melting point and is relatively soft, making it easy to shape. Scandium is also a good conductor of electricity and heat. Scandium-aluminium alloys provide lightweight, high-strength and corrosion resistant equipment parts.

**Applications:** Scandium-aluminum alloys are utilized in the manufacturing of high-performance component for aerospace, aircraft, missiles, and satellites. The green energy technology is also requiring these alloys in EV frames and battery casings, solid oxide fuel cells as well as wind turbine parts.

**Market key data:** The world production of scandium (as scandium oxide) is in the order of 30-35 tonnes per year. Current demand is about 50% higher and expected to increase dramatically if and when more supply is available.

# INVESTOR OPPORTUNITY

Scandium is critical for a number of crucial innovations in aerospace, defense and the EV sector

Scandium is in short supply, with projections showing a **50 fold increase in new supply needed to meet expected 2040 demand**

Strong management and Board with critical mineral deposit discovery, development and alloying expertise

Large, high-grade surface resource with PEA showing a **NPV of \$1.7 billion** (after tax)

Mineralization processed using simple metallurgy with high recoveries (>85%)

Mining-friendly jurisdiction (QC); good relationship with local first nations communities

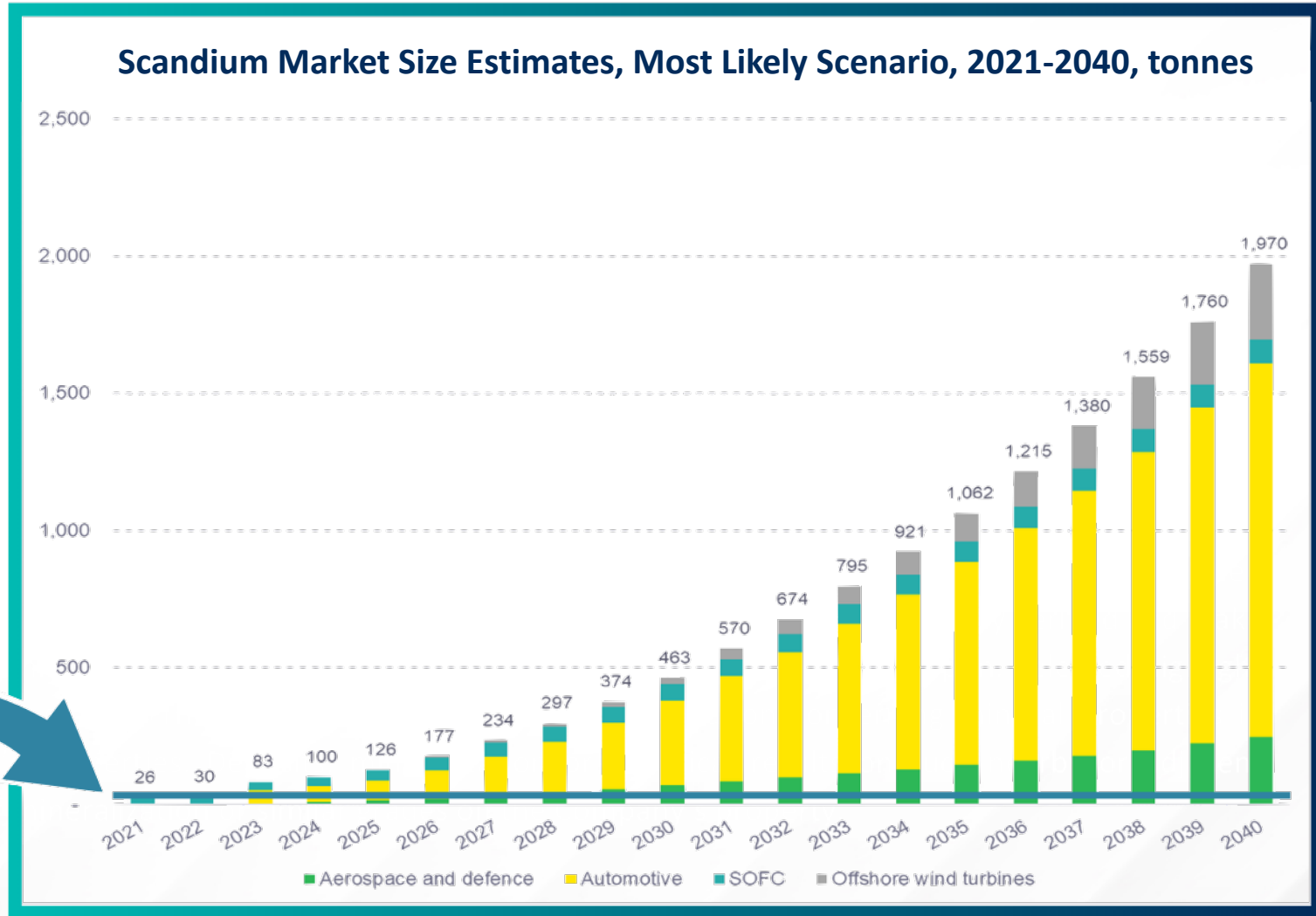
Global geopolitical disruptions motivating Western governments to secure supply of critical metal by establishing local or “Continental” supply chains. Scandium is on the Critical Materials List required by the industry and supported by governments.

# MULTIPLE MARKET DRIVERS – SCANDIUM MARKET SEVERELY UNDERSUPPLIED

Scandium demand projections show a very significant need for new supply

To meet 2040 demand, current capacity needs to increase by a factor of over 50

Current global supply capacity



Source: Internal EY Internal Market Study 2022

\*SOFC – Solid Oxide Fuel Cells



# AUTOMOTIVE

## Electric Vehicles

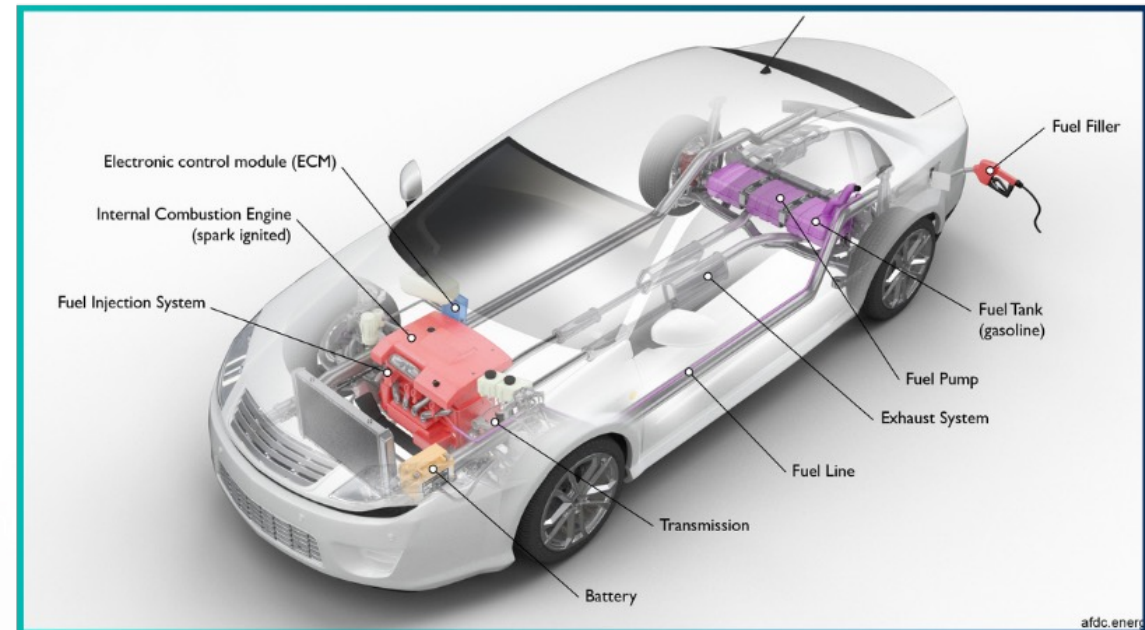
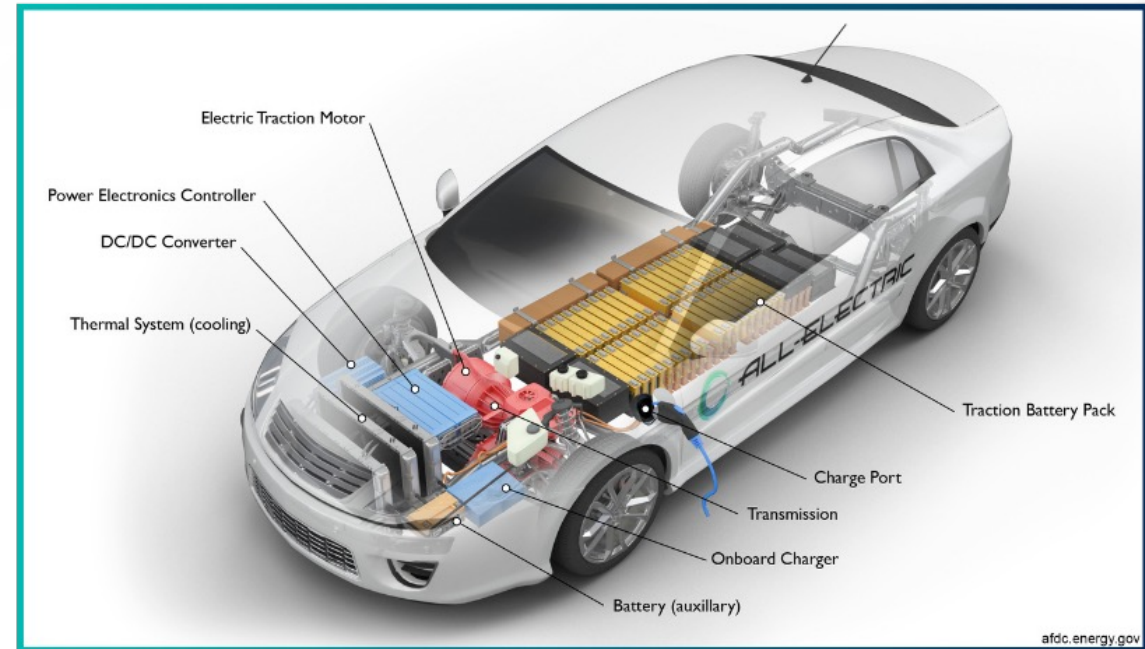
Body and chassis

Battery casing

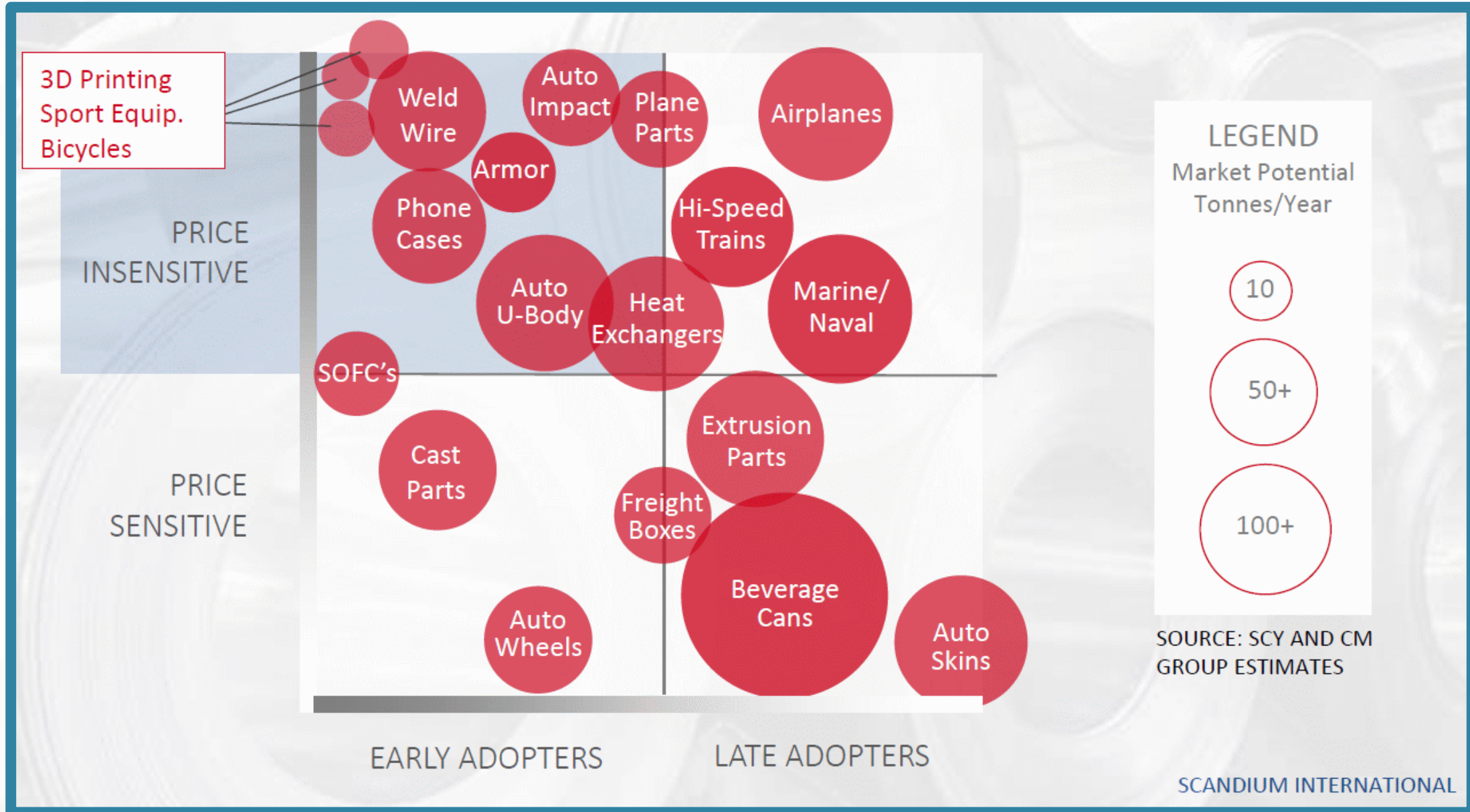
Tubing and heat exchangers (AC)

Heat exchangers for  
motor housing and  
battery cooling

Magnet wiring (motor)



# APPLICATIONS AND POTENTIAL





# CAPITAL STRUCTURE

(January 25<sup>th</sup>, 2024)

Common Shares Issued and Outstanding	216,372,826
Options	15,425,000
Warrants	28,461,130
Broker Warrants	650,802
Fully Diluted	260,909,758

Options average strike price  
\$0.14 = \$2.2M

Warrants average strike price  
\$0.16 = \$4.5M



# SCANDIUM CANADA'S CRATER LAKE:



“The most exciting scandium  
hard rock project in the world”

- Dr. Anthony Williams-Jones, McGill University

\$1.72B Project  
NPV (aftertax)

32.8% Project  
IRR (aftertax)

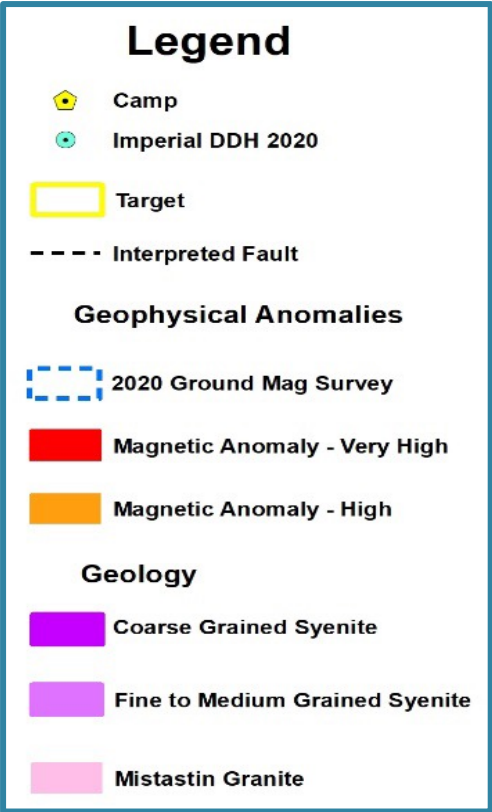
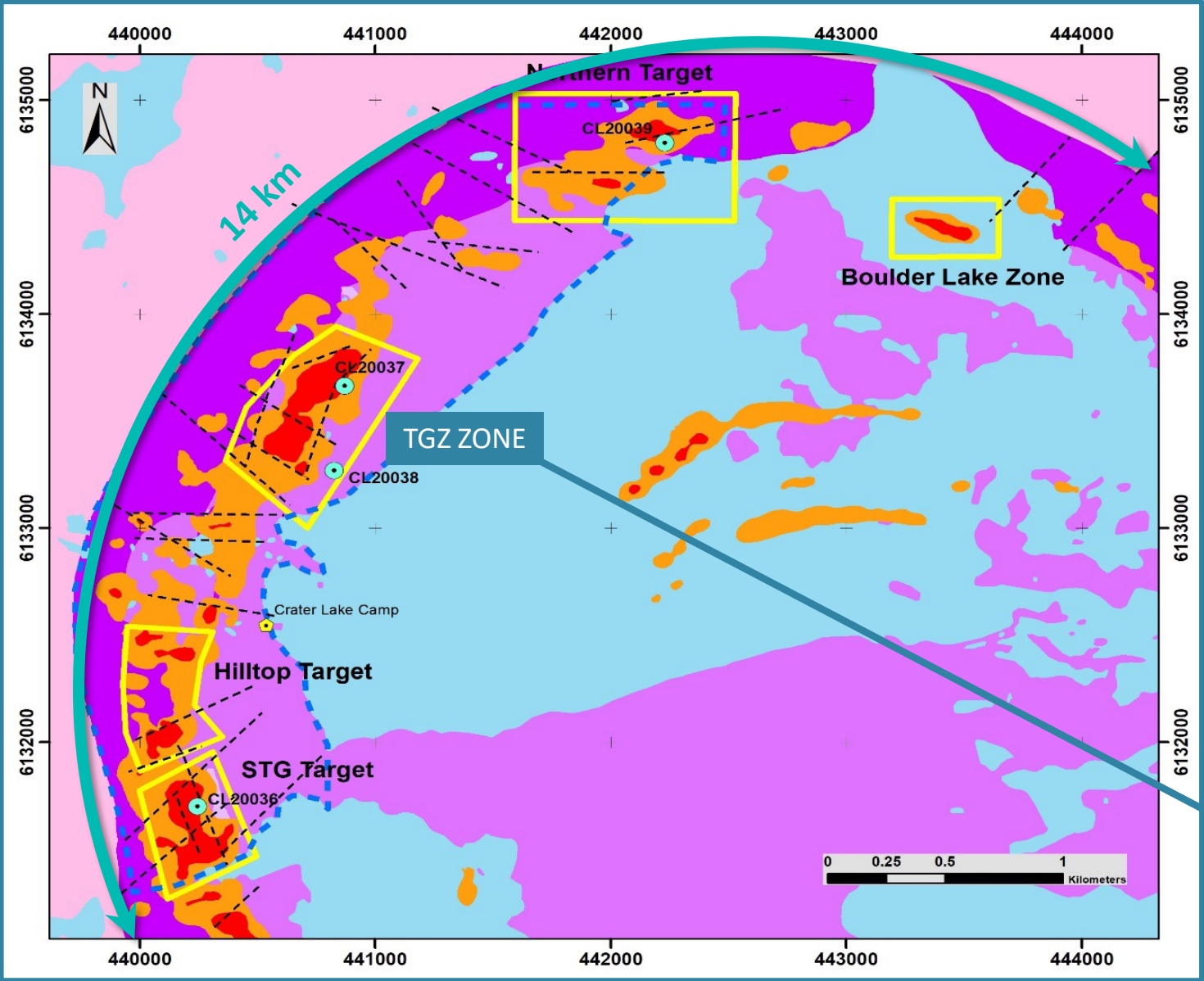
Quebec,  
Top Mining  
Jurisdictions

75% of Aluminum  
Production Market  
with Lowest  
CO2 Footprint





# THE PROPERTY AND ITS POTENTIAL

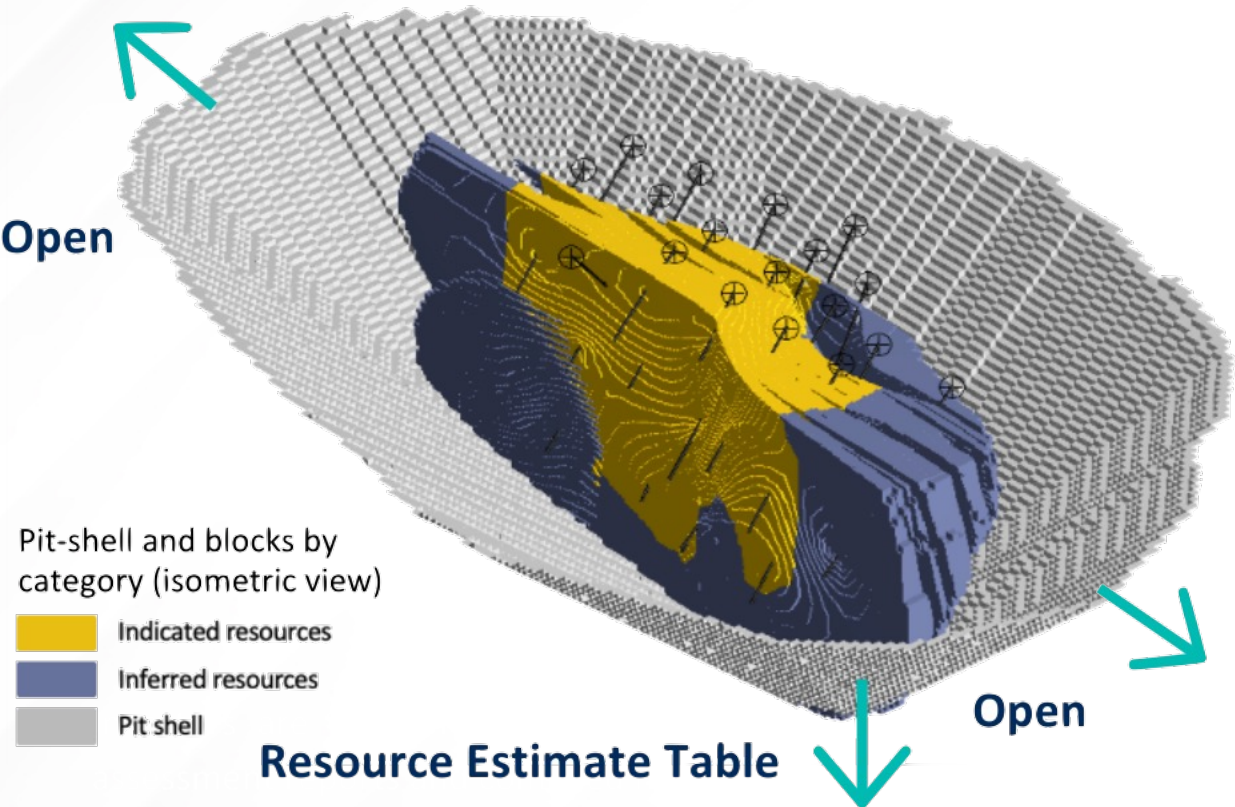


TGZ Zone North Lobe  
Location of 2022 PEA



# TG ZONE "NORTH LOBE" 43-101 RESOURCE

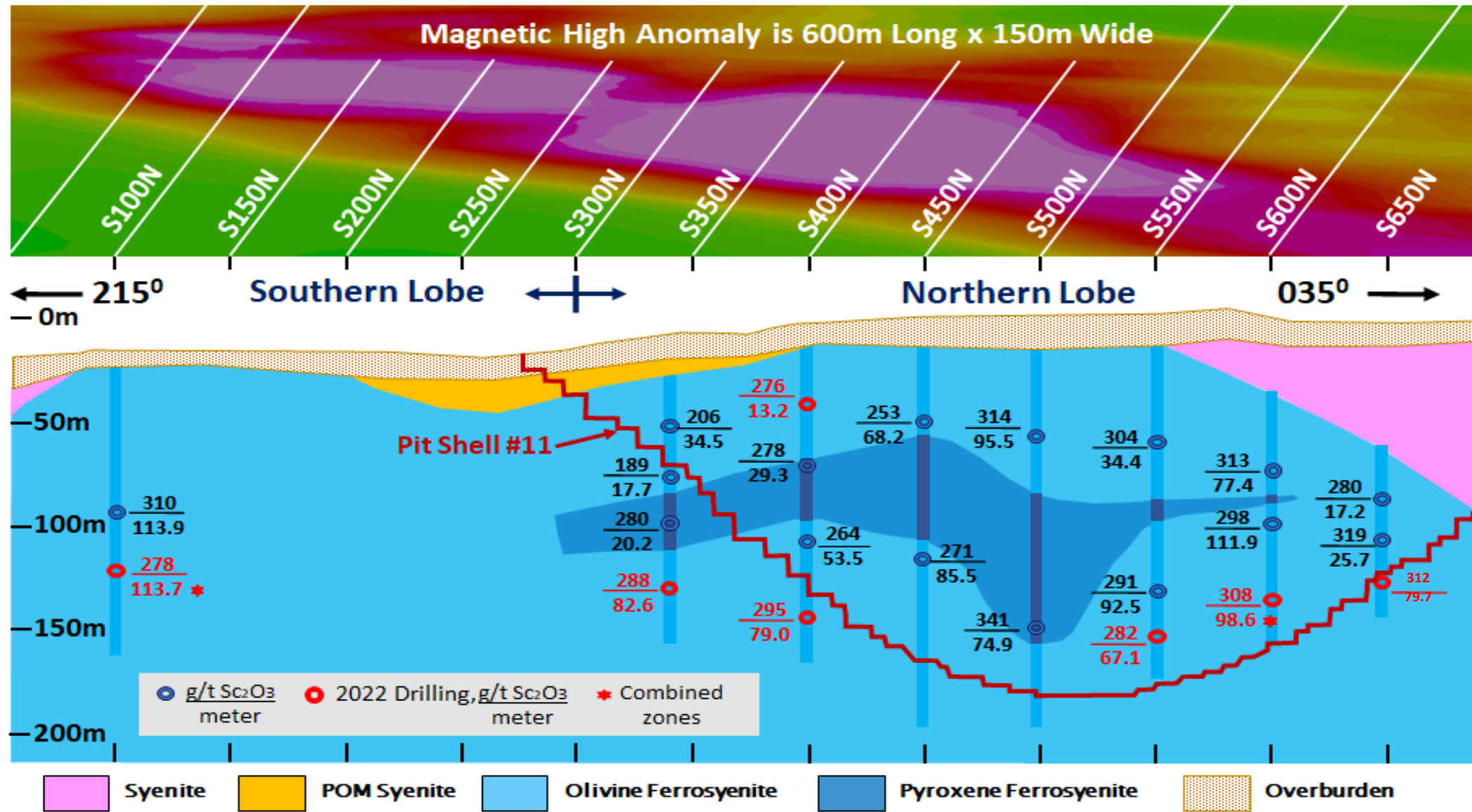
TGZ Mineralized Zone (43-101)



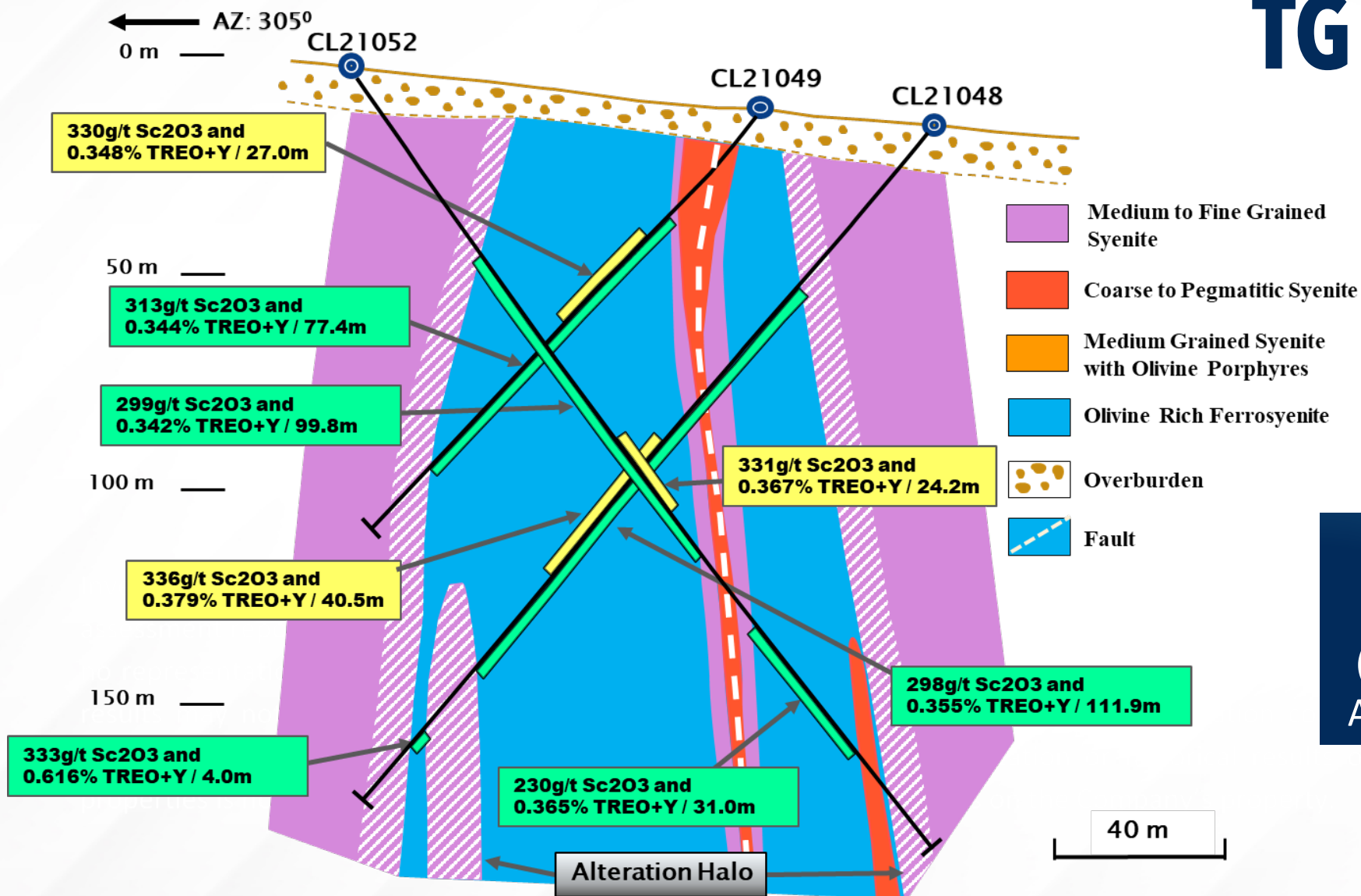
- Zone dimensions: 300m long X 200m in depth: average width 100m.  
Open in all directions
- Thickens and gets richer at depth
- Cut-off NSR: \$CA110.80/t;
- Ore value NSR: \$CA386-413/t
- Sufficient for a minimum 40-year operating model;
- NSR based on delivery of Sc<sub>2</sub>O<sub>3</sub> and a bulk Magnet Rare Earth concentrate: additional by-product credits possible

Analysis	Cut-off NSR (\$/t)	Tonnage (Mt)	NSR Total (\$/t)	Sc203 (g/t)	Dy203 (g/t)	La203 (g/t)	Nd203 (g/t)	Pr203 (g/t)	Tb407 (g/t)
Indicated	11.1	11.8	426	275.9	66.4	605.5	596.9	160.1	11.7
Inferred	110.1	15.9	414	268.4	66.1	606.9	595.6	159.8	11.6

# TG ZONE, LOGITUDINAL SECTION



# TYPE X-SECTION THROUGH THE TG "N-LOBE"



8.0 to 12.0 g/t  
Gold Equivalent  
(Assume: \$1900/oz  
Au, \$1500/kg Sc<sub>2</sub>O<sub>3</sub>)



# PRELIMINARY ECONOMIC ASSESSMENT ON THE TG ZONE NORTHERN LOBE MAIN PARAMETERS

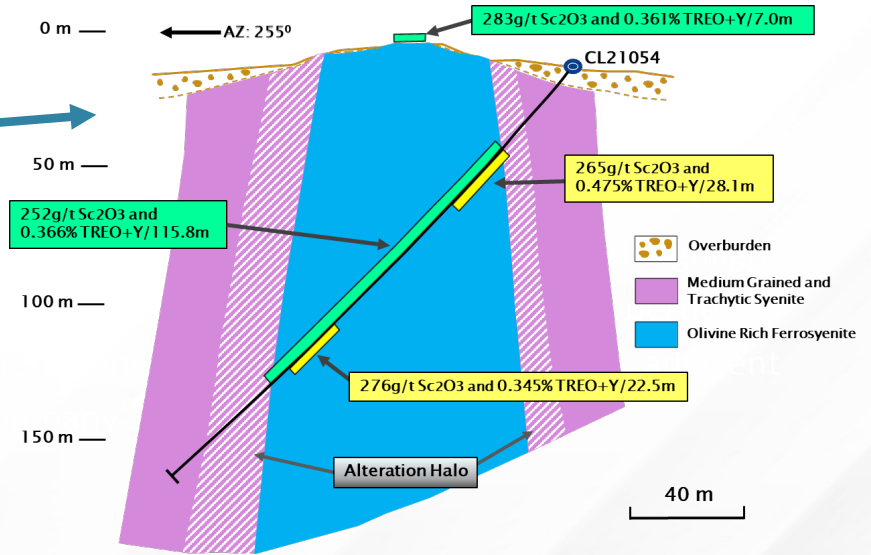
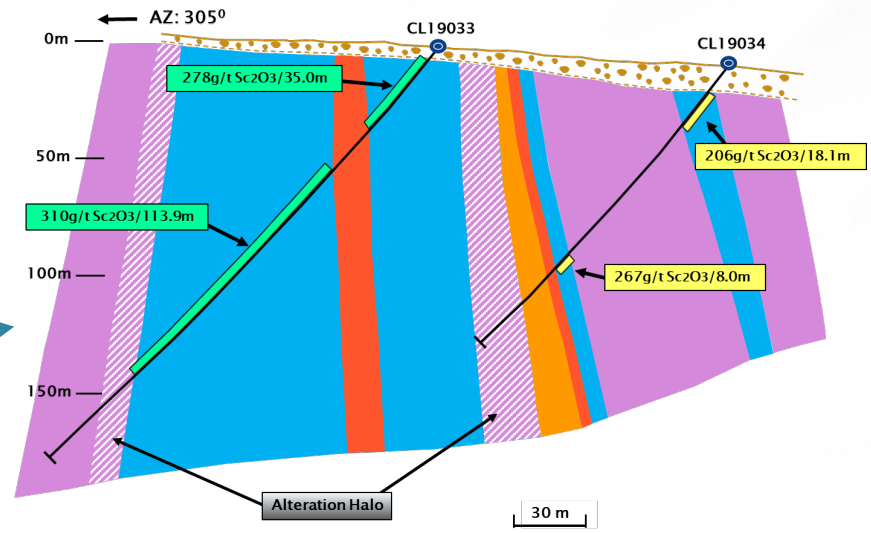
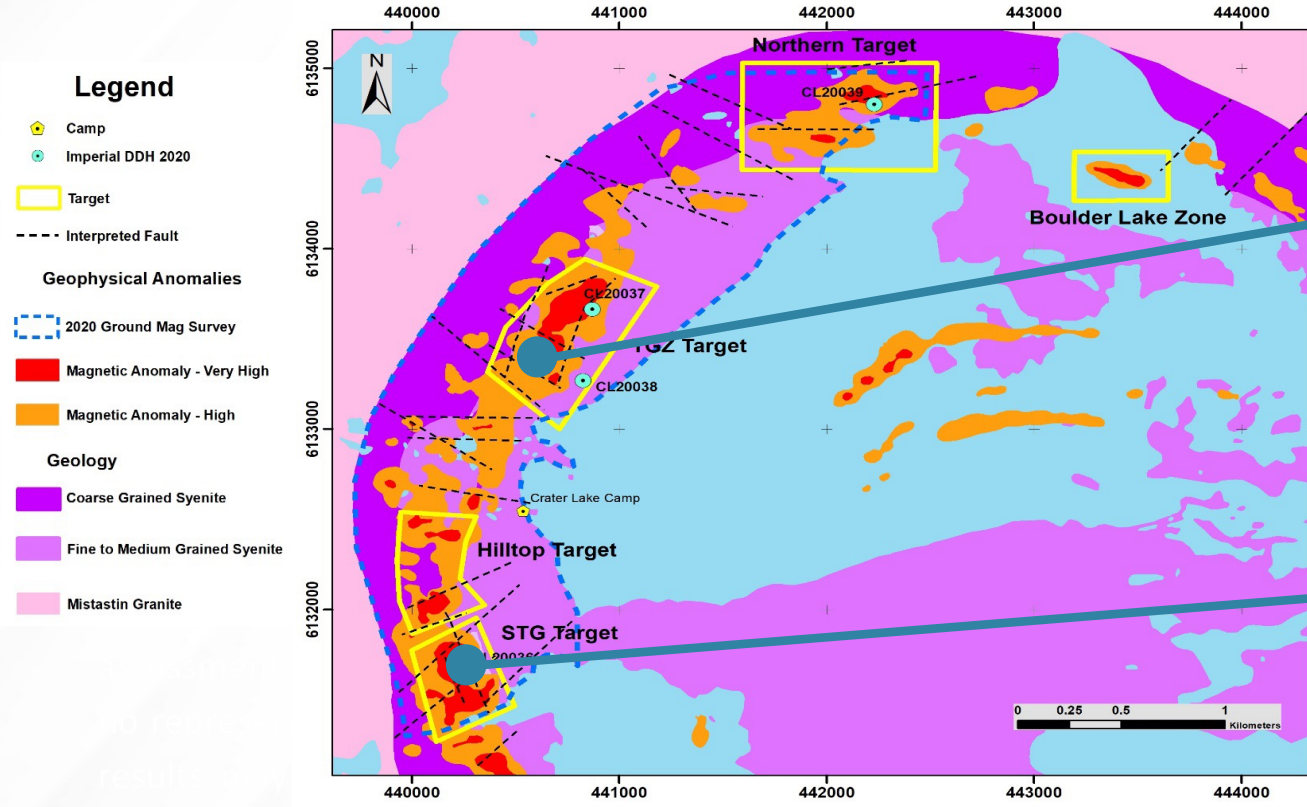
\$1.7Bn NPV Showing very considerable upside

With an LOM operating margin of 63.8%, the CAPEX payback period (aftertax) estimated at ~3.0 years from the start of production

PEA Study available: [Here](#)

PARAMETERS	ANNUAL IMPACT	Life-of-Mine IMPACT
Gross Metals Revenues	\$608 million	\$15.2 billion
After-tax Cash Flows	\$250.4 million	\$6.3 billion
Net Present Value <sub>a-t/10%</sub>	-----	\$1.72 billion
Internal ROR <sub>a-t</sub>	-----	32.8%
Operating Costs	\$381/t of mill feed	-----
Concentrate Value	\$1,100/t CAN(*)	-----
CAPEX (Direct & Indirect)	-----	\$712 million
Contingency (25%)	-----	\$159 million
Minimum Mine Life	-----	25 years

# TARGETS OF OPPORTUNITY: TG ZONE SOUTH LOBE & STG TARGET



8.0 to 12.0 g/t Gold Equivalent  
(Assume: \$1900/oz Au, \$1500/kg Sc<sub>2</sub>O<sub>3</sub>)

# DEVELOPMENT MILESTONES

	2022	2023	2024	2025	2026	2027
43-101 Preliminary Economic Assessment (PEA)	Completed					
Updated 43-101 Resource Estimate		Completed				
43-101 Pre-feasibility Study						
Geotechnical and Infill Drilling						
Environmental Assessment						
500kg Mini Metallurgical Pilot						
Full Scale Metallurgical Pilot						
43-101 Feasibility Study						
Construction Financing						
Preliminary Site Construction Work						



# MANAGEMENT TEAM



**Guy Bourassa**  
CEO

- Law degree from Laval University
- Over 30 years experience in industrial minerals and strategic metals business.
- Former Founder, President and Director of Nemaska Lithium
- Former President of Dufresnoy Industrial Minerals
- Former director of Nouveau Monde Graphite and Monarques Resources



**Pierre Neatby**  
President & COO

- Over 30 years in the base and strategic metals business
- 20 years with Noranda
- 9 years in rare earths with Avalon
- International experience (London, Madagascar) working with consumers in all continents.
- Specific experience in the aluminum business



**Dr. Luc Duchesne**  
Chief Science Officer

- 30 years of strategic marketing and project management, bridging science with business
- 15 years of senior level management and technical experience for government and industry
- Expertise in relationship-building in Academic and Government circles, particularly in advanced material applications
- PhD from University of Guelph



**Isabelle Gauthier,**  
**CPA**  
CFO,  
Corporate Secretary

- Extensive expertise in public companies, primarily in the mining sector including consolidation of foreign entities, M&A, reverse takeover, spin-out and financial reporting.
- over 20 years of accounting, transactional and reporting experience.
- Past Senior Manager within the firm Raymond Chabot Grant Thornton



**Pierre Guay,**  
**P.GEO.**  
Technical Advisor,  
Exploration

- Over 25 years experience in exploration, mine development and production
- Led the Quest Minerals' team as Manager of Exploration that developed the Strange Lake rare earth deposit
- Formerly an Area Geologist with Vale Inco Exploration for 19 years

# BOARD OF DIRECTORS



**Jeff Swinoga,**  
**MBA, CPA**  
Chairman of  
the Board

- Formerly EY Canada's National Mining and Metals Co-Leader
- Held CEO/CFO positions for intermediate to large companies with 25 years of experience in the minerals sector and finance
- Extensive international experience in mine project financing in North/South America and Africa



**Guy Bourassa**  
CEO

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- Over 30 years experience in industrial minerals and strategic metals business.
- Former Founder, President and Director of Nemaska Lithium
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- Specific experience in the aluminum business



**Alain Bureau,**  
**P.ENG.**  
Director

- 20 years of experience in mining and project construction throughout the Americas
- Graduated with high honours in Mechanical Engineer from the Royal Military College of Canada
- Received numerous industry acknowledgements, including TSX's Top 10 exploration companies award in 2012 and the prestigious PwC's Top performing mining explorers award in 2013



**Brooke Delong**  
Director

- 20 years of corporate and operations experience within the mining industry
- Trusted advisor on communications, change management and global governance matters through her current role as Director, Change Management & Internal Communications at Centerra Gold Inc.
- Was previously the Manager, Communications with Vale

# FOR MORE INFORMATION



**Guy Bourassa**  
CEO, Scandium Canada



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