



ADVANCED
MATERIALS

Corporate Presentation

Enabling Global Decarbonization with **BORON+**

April 2022



Cautionary Statements



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This Presentation contains forward-looking statements within the meaning of or as described in securities legislation in the United States, Australia and other jurisdictions. Forward-looking statements generally are identified by the words "believe," "project," "expect," "anticipate," "estimate," "intend," "budget," "target", "aim", "strategy," "estimate", "plan," "guidance," "outlook," "intend", "may," "should," "could," "will," "would," "will be," "will continue," "will likely result" and similar expressions, although not all forward-looking statements contain these identifying words. Forward-looking statements include statements regarding exploration, development and construction activities; current plans for the 5E Group's projects; projections of market demand and prices; statements about the timing and amount of resource declarations and current or planned operations; strategy; value; returns; capital allocation and investment; expectations regarding permitting; costs and expenses; and statements about the timing and ability to complete scoping studies and feasibility studies. Forward-looking statements reflect the 5E Group's beliefs and expectations based on current estimates and projections. While the 5E Group believes these expectations, and the estimates and projections on which they are based, are reasonable and were made in good faith, these statements are subject to numerous risks and uncertainties. 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Any forward-looking statements, projections and estimates are given only as of the date of this Presentation and actual events, results, performance and achievements could vary significantly from the forward-looking statements, projections and estimates presented in this Presentation. Readers are cautioned not to put undue reliance on forward-looking statements. Except as required by law, the 5E Group disclaims any intent or obligation to correct, update or revise such forward-looking statements, projections and estimates, whether as a result of new information, future events or otherwise. Additionally, the 5E Group, except as required by applicable law, undertakes no obligation to comment on analyses, expectations or statements made by third parties in respect of the 5E Group, its financial or operating results or its securities.

MARKET AND INDUSTRY DATA

Certain market and industry data presented throughout this Presentation was obtained from third-party sources, industry reports and publications, websites and other publicly available information, as well as industry and other data prepared by or on behalf of the 5E Group. Management estimates regarding the 5E Group's position, share and industry size are derived from publicly available information and its internal research, and are based on a number of key assumptions made upon reviewing such data and the 5E Group's knowledge of such industry and markets, which it believes to be reasonable. While the 5E Group believes the industry, market and competitive position data included in this Presentation is reliable and is based on reasonable assumptions, such data is necessarily subject to a high degree of uncertainty and risk and is subject to change due to a variety of factors. These and other factors could cause results to differ materially from those expressed in the estimates included in this Presentation. Neither the 5E Group nor its representatives or advisors have independently verified any market or industry data provided by third parties, industry reports and publications or other publicly available information.

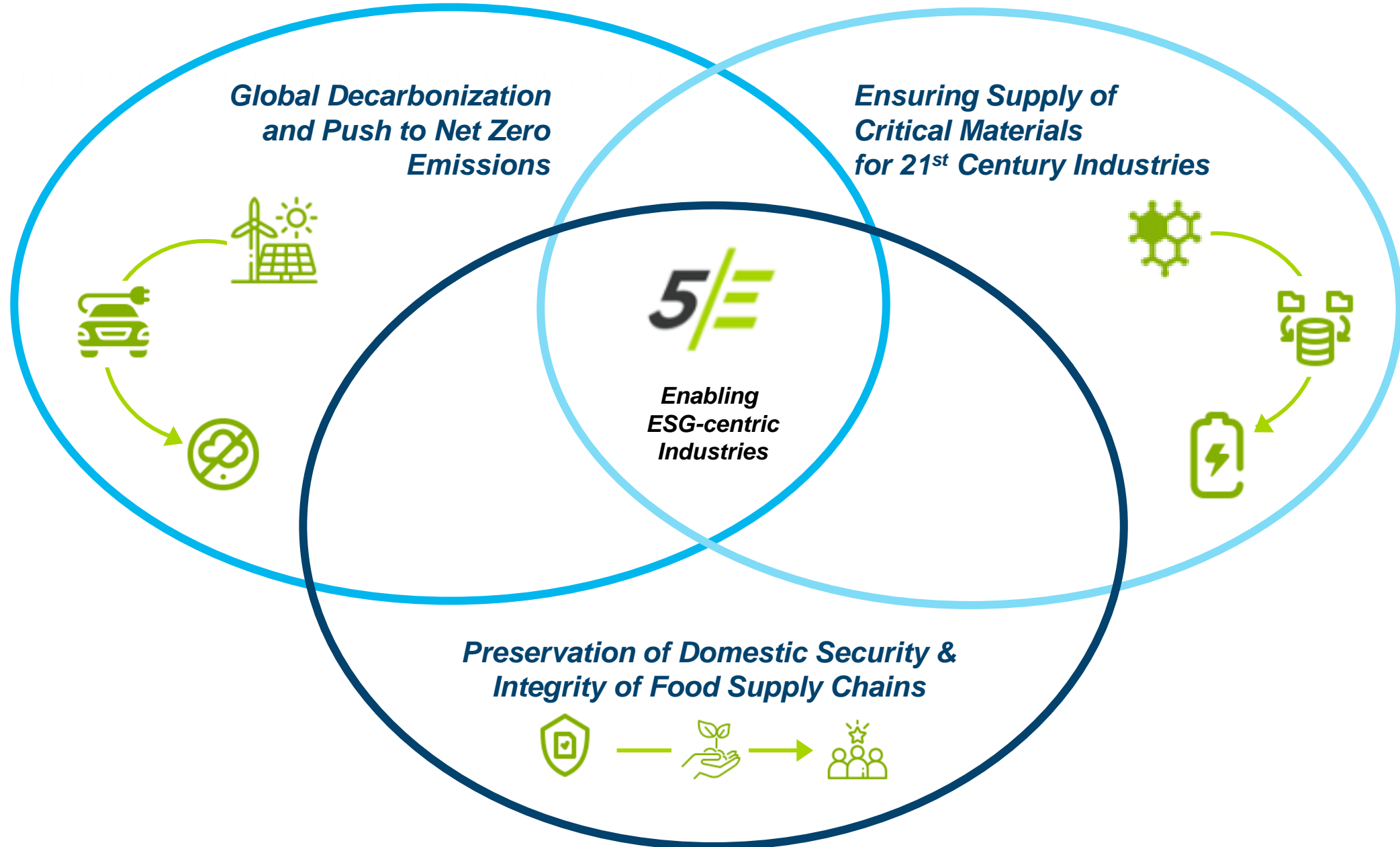
JORC CODE AND REGULATION S-K 1300 MINERAL RESOURCES

In this Presentation, some references to estimated mineral resources are compliant with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code") and other references to estimated mineral resources are compliant with the new SEC mining property disclosure requirements contained in Subpart 1300 of Regulation S-K under the U.S. Securities Act ("Regulation S-K 1300"), whereas mining companies in other countries may be required to report their mineral reserves and/or resources in accordance with other guidelines. Investors should note that while the information in this Presentation relating to mineral resources complies variously with the JORC Code and Regulation S-K 1300, it may not comply with the relevant guidelines in other countries. Mining disclosure in the United States was previously required to comply with SEC Industry Guide 7 under the Exchange Act ("SEC Industry Guide 7"). In accordance with the SEC's Final Rule 13-10570, Modernization of Property Disclosure for Mining Registrant, the SEC has adopted final rules, effective February 25, 2019, to replace SEC Industry Guide 7 with new mining disclosure rules (the "Mining Disclosure Rules") under Regulation S-K 1300. Regulation S-K 1300 replaces the historical property disclosure requirements included in SEC Industry Guide 7. Regulation S-K 1300 uses the Committee for Mineral Reserves International Reporting Standards ("CRIRSCO")-based classification system for mineral resources and mineral reserves and accordingly, under Regulation S-K 1300, the SEC now recognizes estimates of "measured mineral resources", "indicated mineral resources" and "inferred mineral resources," and require SEC-registered mining companies to disclose in their SEC filings specified information concerning their mineral resources, in addition to mineral reserves. In addition, the SEC has amended its definitions of "proven mineral reserves" and "probable mineral reserves" to be substantially similar to corresponding international standards, including the JORC Code. The SEC Mining Disclosure Rules more closely align SEC disclosure requirements and policies for mining properties with current industry and global regulatory practices and standards, including the JORC Code. While the SEC now recognizes "measured mineral resources," "indicated mineral resources" and "inferred mineral resources" under the SEC Mining Disclosure Rules, recipients of this Presentation should not assume that any part or all of the mineral deposits in these categories will be converted into a higher category of mineral resources or into mineral reserves.

COMPETENT PERSON STATEMENT (JORC) and TECHNICAL REPORT SUMMARY (REGULATION S-K 1300)

The information in this presentation that relates to exploration targets, exploration results and mineral resources reported under the JORC Code is based on information prepared by Mr Louis Fourie, P.Geog of Terra Modelling Services. Refer to the announcement made by American Pacific Borates Limited dated 3 December 2018 for full details of the JORC Compliant Resource Estimate and Reserve for the Fort Cady Project. The 5E Group confirms that it is not aware of any new information or data that materially affects the Resource Estimate and Reserve and that all material assumptions and technical parameters underpinning the Resource Estimate and Reserve continue to apply and have not materially changed. The Company retained Millcreek Mining Group to prepare an independent technical report summary (the "Report") on the Project. The purpose of the technical report summary was to support the disclosure of Mineral Resource estimates for the Project in compliance with Regulation S-K 1300. The summary was prepared in accordance with the SEC's new mining disclosure rules including Regulation S-K 1300 and Item 601(b)(96) (technical report summary) of Regulation S-K. The Mineral Resources estimates reported in compliance with Regulation S-K 1300 in this Presentation are extracted from the Report.

5E Sitting at the Crossroads of Major Emerging Themes





5E STRATEGIC VISION

Become a vertically integrated global leader in BORON+ advanced materials with a focus on enabling decarbonization



Our Plan

Build a vertically integrated advanced materials business, underpinned by a low cost and secure input supply, downstream processing capabilities and blue chip customer partnerships

Our Impact

Enable global decarbonization and the push for net zero by developing innovative BORON+ applications, and providing a secure source of BORON+ advanced materials to global supply chains

We are in the Right Place, at the Right Time, with the Right Asset

Why BORON+



Critical Material, Essential to Everyday Life

Advantaged elemental properties; essential across a wide range of applications with limited substitution



Enabler of Future ESG-centric Industries

Powering industries of the future with high end use applications including batteries, EVs and renewable energy infrastructure



Scarce Resource & Duopolistic Supply

85% of global supply controlled by two companies; downstream supply concentrated in China; governments taking action



Accelerating Demand Growth

Traditional and decarbonization-focused applications driving 10x consumption growth by 2050E creating undersupply scenario⁽¹⁾

**Relatively Unknown, Next Energy Material
That Deserves Attention**

Why 5E Advanced Materials



World Class Resource and Asset

Access to a rare, low cost resource; advantaged U.S. location; Critical Infrastructure designation by U.S. government



Vertically Integrated Model

Differentiated model with control over inputs, intellectual property and processes, and downstream partnerships



Foundations In Place & Clear Vision

Clear path to building a BORON+ advanced materials business; Strong momentum into U.S. listing with milestones completed



Leadership Team to Deliver

Track record of building advanced material powerhouses; capable oversight and strategic support in place

**Unique Platform and Opportunity
at Attractive Valuation**

(1) Per Credit Suisse equity research – upside demand case.






BORON+

Why BORON+

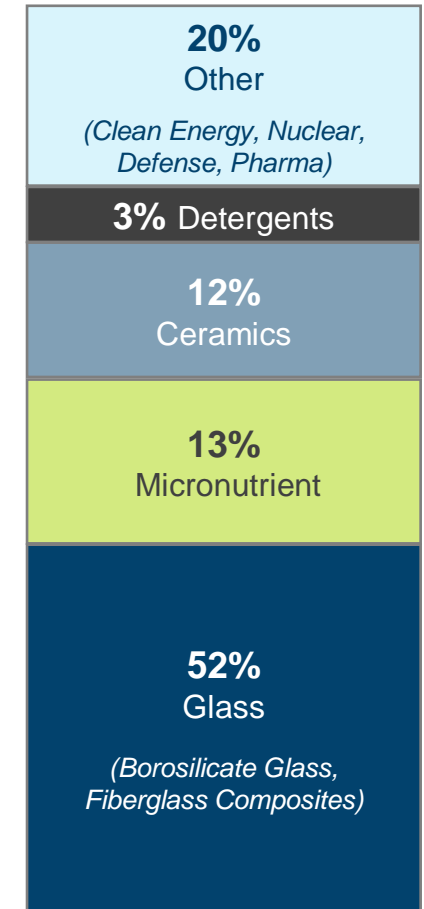
Superior Physical Properties; Wide Application Set and Essential to Everyday Life



Superior Physical Properties

<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>5 B Boron <i>Metalloid</i></p> </div>		Hardness	<i>Only Carbon (diamond) is harder than Boron composites</i>
		Light Weight	<i>5th lightest of all elements after Lithium and Beryllium</i>
		Heat Resistant	<i>Only 11 elements have higher melting points (3,771°F)</i>
		Anti-Microbial	<i>Boron clusters have anti-biofilm activity and are less prone to drug resistance</i>
		Corrosion Resistant	<i>Boron-infused metals and specialty ceramics reduce corrosion propensity</i>

Current Usage



Wide Range of Traditional Applications, with Limited Substitutability

Usage and Value in Use Shifting Towards Future Facing Applications



Materials

Applications

GDP+
Growth on
Large Base

\$

Ulexite



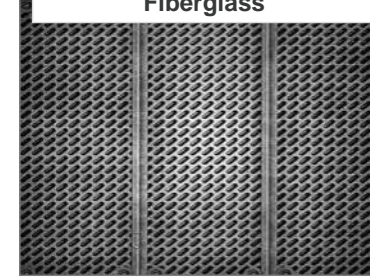
Colemanite



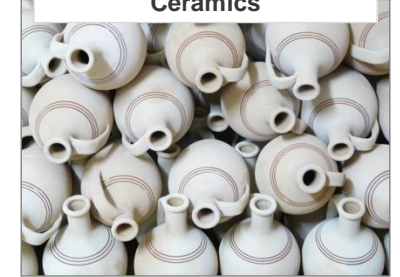
Micronutrients



Fiberglass



Ceramics



High
Growth,
High
Value

\$\$

Boric Acid



Boron Oxide



Solar Glass



EV Magnets / Panels / Glass



Wind Turbine Blades



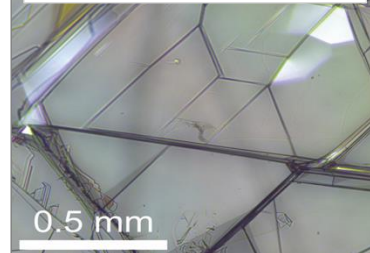
High
Growth,
Higher
Value

\$\$\$

Boron Carbides



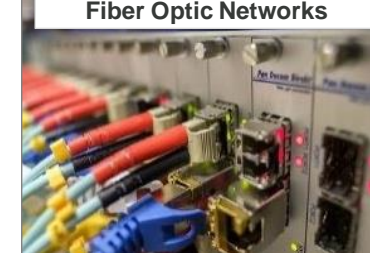
Boron Nitrides



Aerospace Ceramics



Borosilicate Glass for
Fiber Optic Networks



Glass, Ceramics and
Materials for Satellites



BORON+ a Critical Building Block in Enabling Decarbonization & Security



Electric Vehicles

~30% CAGR

Global Electric Vehicle Stock Growth (2020-2030)

~145m

Global Electric Vehicle Stock by 2030



Green Energy

5.8% CAGR

Global Installed Wind & Solar Capacity (2019-2050)

~\$55 Trillion

Global "Green" Energy Infrastructure Investment (2016-2050)¹



Food Security

+1.9 Billion

Increase in Global Population by 2050

>40%

Lands Experiencing Severe Yield Reductions by 2050



Domestic Security

3.3% CAGR

Growth in Global Military Spending (2000-2020)

~\$2.0 Trillion

Global Spending on Defense (2020)

BORON+ the "Enabler Mineral"



Electric Vehicles & Transportation

Boron Magnets for Drivetrains

High-Strength Boron-Infused Steel



Solar PV and Wind Infrastructure

Borosilicate Glass & Coatings

Light-Weight Boron fiberglass



Fertilizers & Nutrients

Boron Micronutrients

Super Fertilizers



Advanced Military Applications

Boron-Infused Tank Armor Plating

Boron Rods for Nuclear Reactors

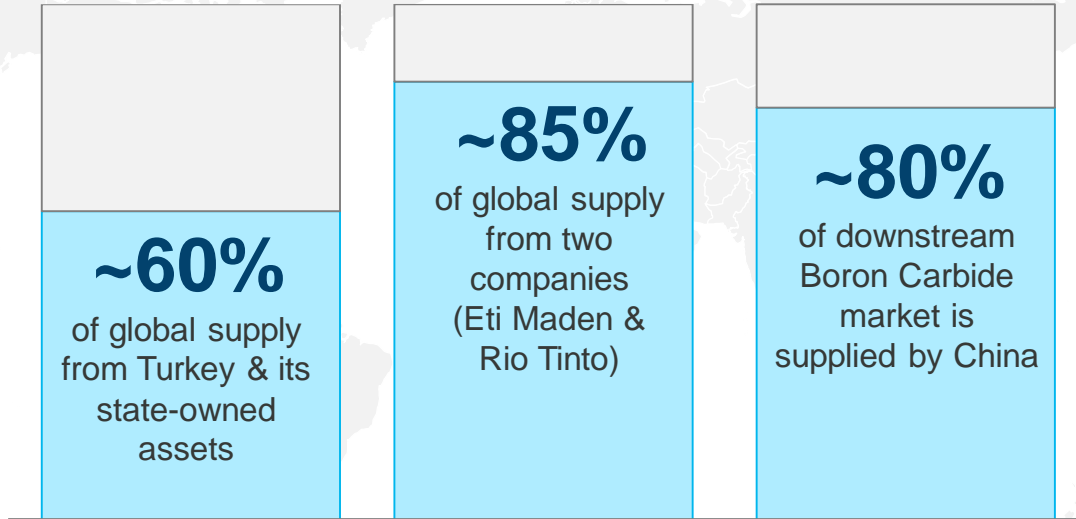
Source: EIA, IEA, United Nations, and PGFP.
Images courtesy of Pixabay.

1) Reflects cumulative global renewable, electrification and infrastructure, and energy efficiency investment under the International Renewable Energy Agency's Planned Energy Scenario.

Global Supply Duopoly and Downstream Concentration; Governments Taking Action



Global Supply Dynamics



Supply Concentration in Geopolitically Challenged Areas

Global Duopoly Challenges Supply Chains & Access

Diversification of Advanced Material Supply is Needed



Establishment of the Critical Minerals Strategy
Establishing that **Several Clean Energy Technologies Materials are at Risk of Supply Disruptions**

December 2010



Executive Order 13817 – “A Federal Strategy to Ensure **Secure and Reliable Supplies of Critical Materials**”

December 2017



Designation of **Boron as “High” Critical Status** in their **Critical Raw Materials for Strategic Technologies and Sectors in the EU**

2020

Fort Cady – Critical Domestic Infrastructure



Fort Cady designated as **Critical Infrastructure by the Cybersecurity and Infrastructure Security Agency (“CISA”)**

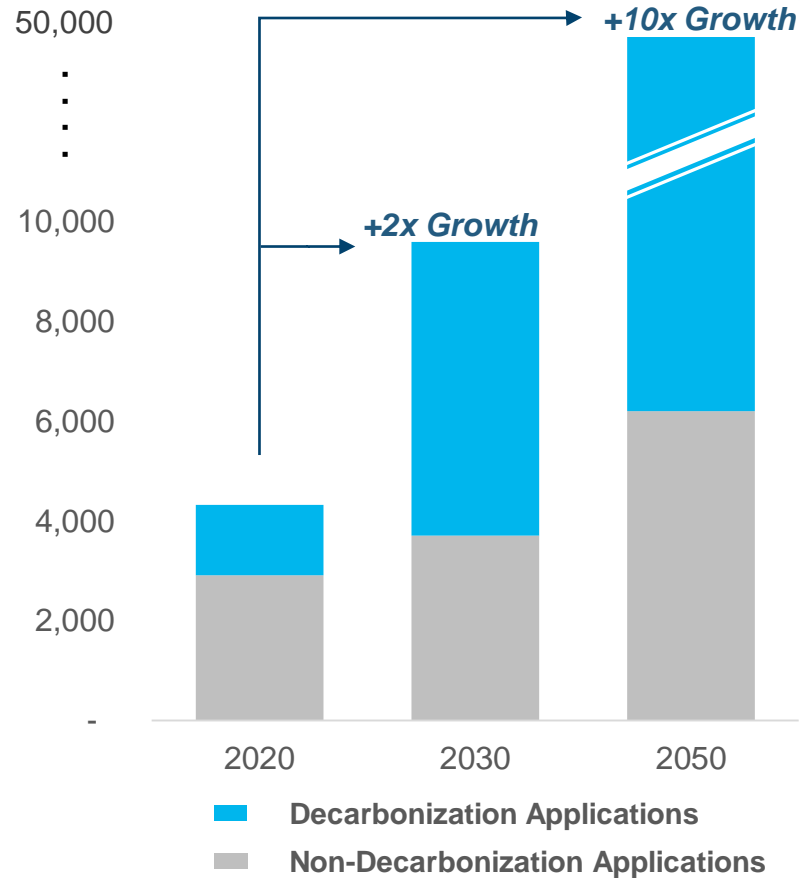
- Designation confirmed in February 2022
- Supported by U.S. Congress and California State Legislature
- Reinforces 5E’s significance as a new, critical, and domestic source of BORON+ amidst a challenging global supply chain

The Global Supply Chain Demands a New, Stable Source to Deliver Critical BORON+ Advanced Materials

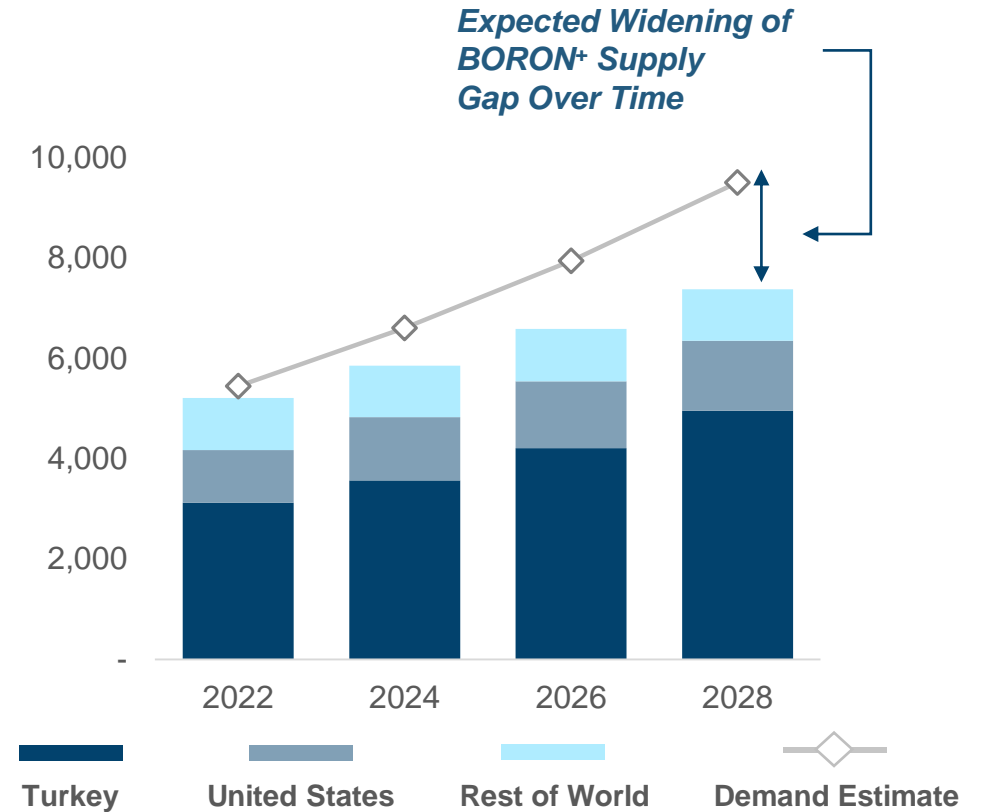
Confluence of Explosive Demand Growth and Growing Supply Shortfall



Boron Demand Growth⁽¹⁾
(k tonnes; boric acid equivalent)



Supply / Demand Imbalance⁽¹⁾
(k tonnes; boric acid equivalent)



Explosive Demand Growth Driven by Key Decarbonization Sectors

Continued Supply Pressures Bringing the BORON+ Supply Gap into Focus

Source: Credit Suisse Equity Research.
 Note: Elemental boron figures converted to boric acid equivalent at a ratio of 1-to-5.72.
 (1) Based on "High Demand" case.

BORON+

Why 5E Advanced Materials

Significant Resource in Strategic Location with Advantageous Infrastructure



Significant Resource & Processes

- Largest known new conventional boron deposit globally
- Light-touch environmental footprint with additional ESG initiatives in train (solution extraction, geothermal potential)
- Co-product benefits (Lithium, SOP, Gypsum)

~327m
Ton
Resource

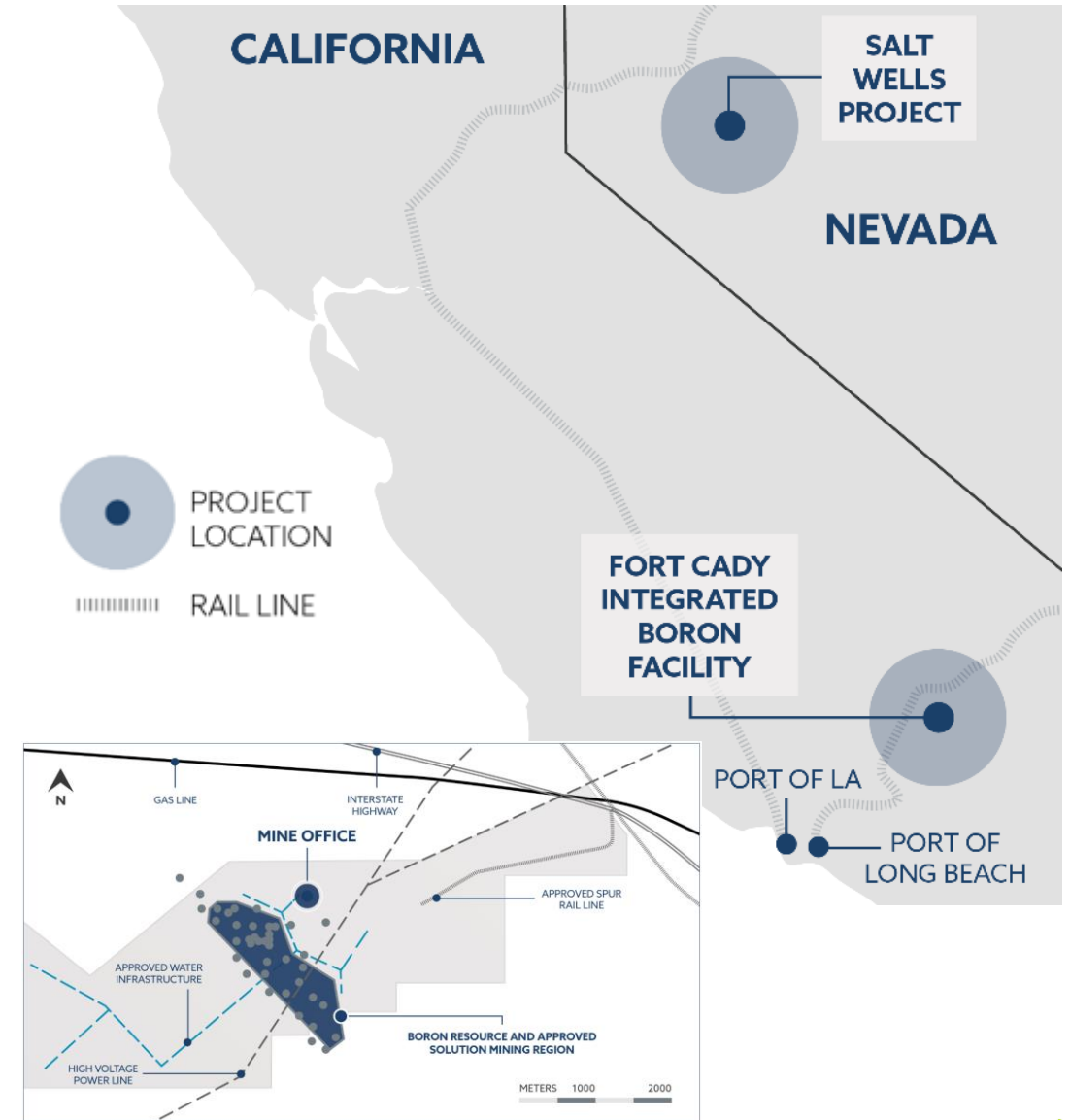
8.22%
Boric Acid
Content

0.17%
Lithium
Carbonate Content



World Class Infrastructure & Access

- Advantageous infrastructure (water, utilities, rail)
- Logistics advantaged, with efficient domestic and international market access
- Proximity to reagents allowing low-cost profile



Building a Fully Integrated BORON+ Advanced Materials Business



*Subject to completion of a bankable feasibility study, detailed engineering and financing (post 2023).

Source: Worldometers and IEA.



Key Sector and Application Focus Areas

- Focus on green end uses that enable decarbonization
- Build diversified portfolio of leading, value-add BORON+ products
- Positioning 5E as thought leader in BORON+



Innovation & Intellectual Property

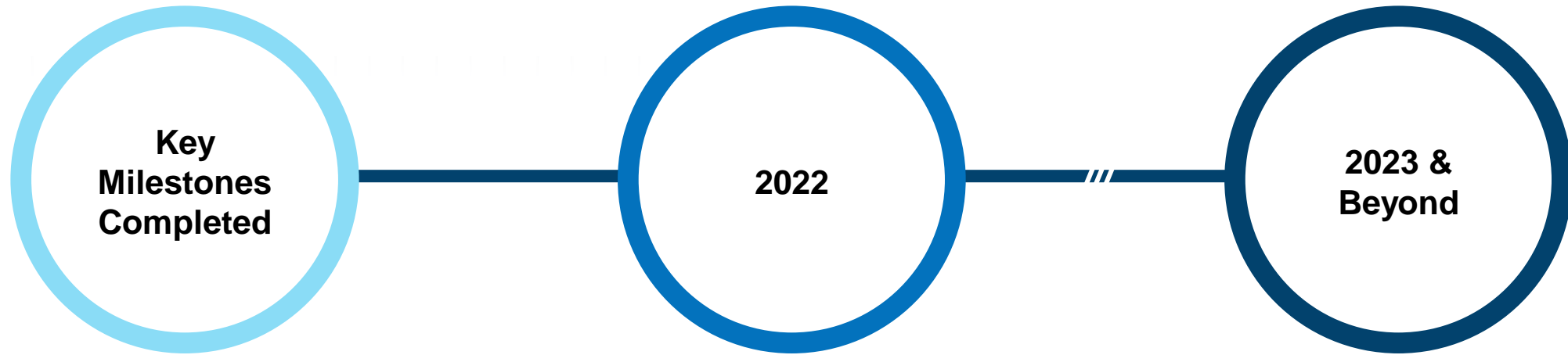
- Build proprietary processes and capabilities
- Continuous focus on R&D to address emerging trends, identify new market opportunities and develop IP portfolio
- Leverage partnerships with research institutions



Long-Term Agreements

- Delivering product via mutually beneficial commercial agreements
- Embedding 5E in supply chains to drive earnings durability
- Partnership feedback to drive product development & innovation

Platform and Foundations In-Place to Enable Strategic Execution



- Fort Cady eDFS
- All substantive permits in place
- Upgraded Fort Cady Resource
- Focus on integrated production
- Assembled management team

- Complete U.S. direct listing
- Complete Fort Cady BFS
- Complete Fort Cady small scale boron facility*
- Advance commercial partnerships and supply agreements

- Engineer Fort Cady complex
- Enhance BORON+ advanced materials portfolio
- Achieve target Fort Cady run-rate production
- Continue Salt Wells exploration
- Achieve target run rate production (module staging optionality)

5E is On Track to Becoming a Global Leader in BORON+ Advanced Materials

* Refer to Company ASX announcements (ASX: ABR)

Note: All dates and times are estimates and subject to change.

Leadership Team Ready to Deliver the Business, With Deep Board & Advisors Bench Strength

Leadership Team



Henri Tausch
CEO,
Director



Paul Weibel
CFO



Chance Pipitone
SVP,
Corp Dev & IR



Tyson Hall
COO



**Dr Dinakar
(Dino)
Gnanamgari**
CCO & CTO



Chantel Jordan
SVP, General
Counsel and CPO



Key Advisors



John Mitchell



Tim Johnston



Govind Arora



Anthony Hall



5E Board of Directors



David Salisbury
Non-Executive
Chair



Jimmy Lim
Non-Executive
Director



Palvi Mehta
Non-Executive
Director



Stephen Hunt
Non-Executive
Director



Henri Tausch
CEO & Director



BORON+

Appendix

BORON+ is an Essential Input in the Electrification of Transport



Governments



50% Share
by 2030



20% Share
by 2025



7mm+ EVs
by 2030



End Petrol
Sales by
2035

**Government Policies
Mandating EV Market Share**

Manufacturers



Fully
Electric



30 New
Models by
2025



40 New
Models by
2022



25 New
Models by
2023

**Billions of Investment in
Research by OEMs**

Consumers



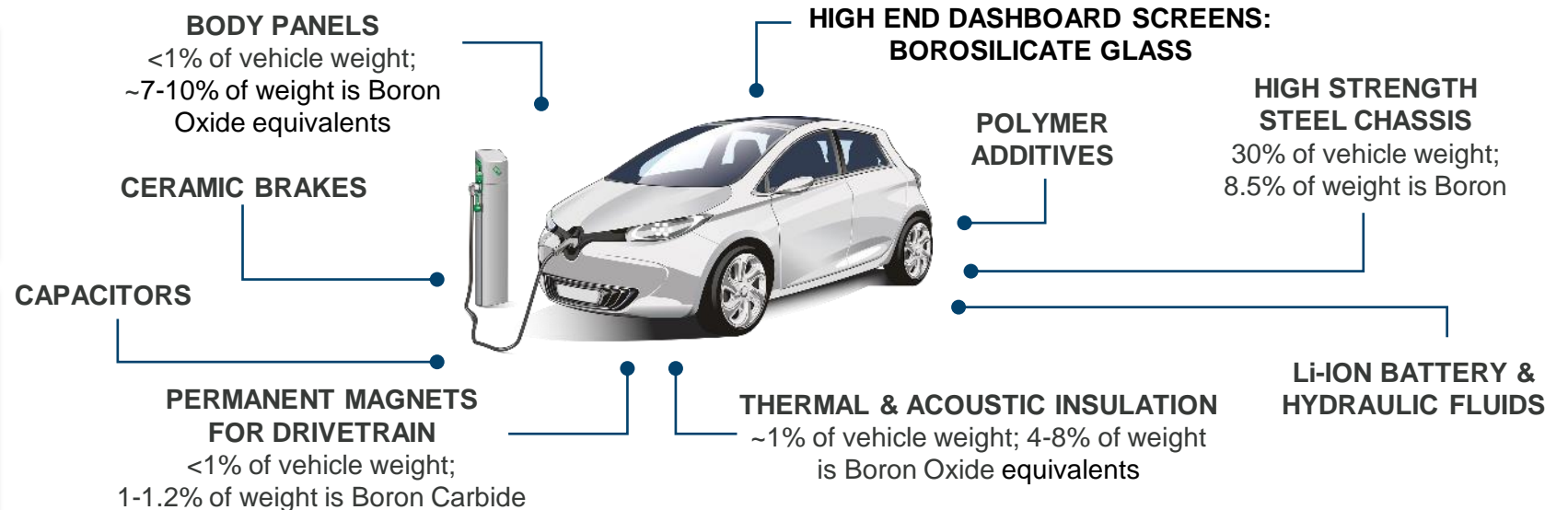
**71% of individuals interested
in plug-in EVs; 31% plan or will
consider an EV as next vehicle⁽¹⁾**

**Consumer Demand Supports
EV Business Case**

Boron Applications in Electric Vehicles

2.5 – 3% of
Vehicle Weight
is BORON+

46 – 50 kg of
BORON+ per
passenger
Vehicle



Fort Cady Mineral Resource Estimate and Reserves



S-K 1300 Compliant Mineral Resource Estimate						
Resources	MsT	B ₂ O ₃ %	H ₃ BO ₃ %	Li ppm	B ₂ O ₃ MsT	H ₃ BO ₃ MsT
Measured	35.96	6.57	11.67	330	2.36	4.2
Indicated	61.59	6.51	11.55	318	4.01	7.12
Total M&I	97.55	6.53	11.61	324	6.37	11.31
Inferred	11.43	6.40	11.37	324	0.74	1.31
Total M, I&I	108.98	6.52	11.60	324	7.11	12.62

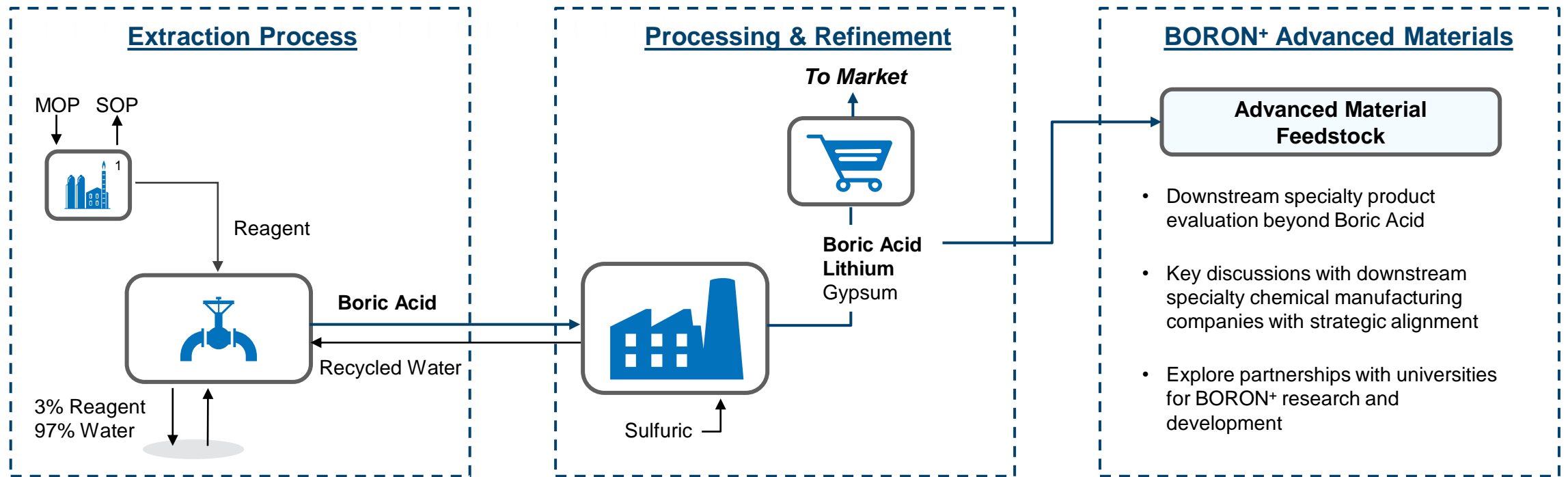
JORC Code Compliant Mineral Resource Estimate						
Resources	MMT	B ₂ O ₃ %	H ₃ BO ₃ %	Li ppm	B ₂ O ₃ MMT	H ₃ BO ₃ MMT
Measured	38.87	6.70	11.91	379	2.61	4.63
Indicated	19.72	6.40	11.36	343	1.26	2.24
Total M&I	58.59	6.60	11.72	367	3.87	6.87
Inferred	61.85	6.43	11.42	322	3.98	7.07
Total M, I&I	120.44	6.51	11.57	344	7.84	13.93

Total S-K 1300 and Uncontrolled Mineral Resource Estimate at 2% cut-Off Grade						
Resources	MsT	B ₂ O ₃ %	H ₃ BO ₃ %	Li ppm	B ₂ O ₃ MsT	H ₃ BO ₃ MsT
Total M, I&I	326.55	4.62	8.22	323	15.09	26.85

Source: Company materials.

5E Advanced Materials confirms all material assumptions and technical parameters underpinning the Mineral Resource Estimates and Reserves continues to apply and have not materially changed as per Listing Rule 5.23.2.

Integrated Processes to Maximize Clean BORON+ Extraction & Processing



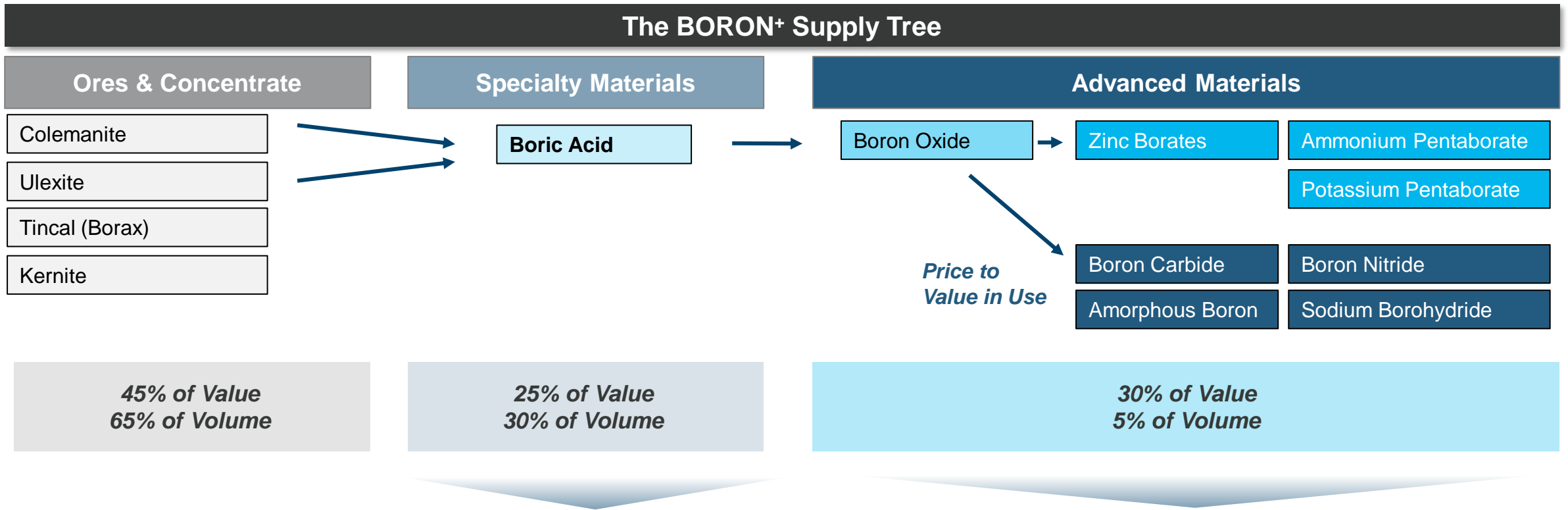
*Environmentally-Friendly
Extraction Process*

*Ability to Sell Boric Acid
Direct into Established Markets;
Feed for Downstream Business*

*Developing Downstream
BORON+ Specialty Capabilities
for Higher-Value Applications*

Processing and Extraction Centered Around Recyclability ('Closed Loop'), Low Carbon Intensity, and Integration to Maximize Extraction of Co-Products

Generating Superior Value in Downstream Advanced and Specialty Materials



Established Market / Price

- ✓ Option to sell specialty into established market with growing demand
- ✓ Provides cash flow base

Significant Value in Advanced Materials

- ✓ Specialization enables superior value extraction
- ✓ Opportunity to build significant intellectual property portfolio
- ✓ Customer partnerships to drive product-market alignment, and embed 5E in critical supply chains

Few Near-Term Supply Alternatives Potentially Entering Service



Production: 400+ ktpa (run-rate)*

Timing: Initial Production in 2022**

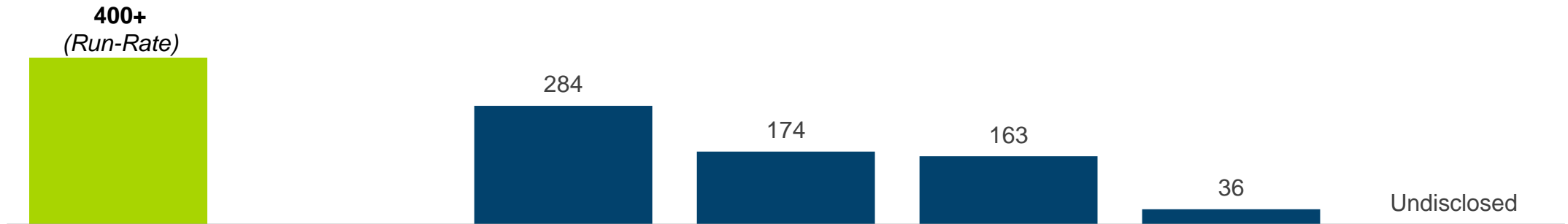
Geopolitical Risk: Limited

Production: Targeted production less than two years growth in market

Timing: 2024+ with Significant Uncertainty

Geopolitical Risk: International locations in Serbia and Mexico

(k tonnes per annum; boric acid equivalent)



	5/E	Rio Tinto	ioneer	ERIN	BACANORA lithium	EURO LITHIUM BORATES+
Location	Fort Cady California, USA	Jadar ¹ Lonzica, Serbia	Rhyolite Ridge Nevada, USA	Piskanja Piskanja, Serbia	El Cajon Mexico	Rekovac Serbia
Stage	eDFS Stage	Feasibility Study	DFS Stage	Exploration Stage	Exploration Stage	Exploration Stage
Boron Mineral	Colemanite	Jadarite	Searlesite	Colemanite	Colemanite	Searlesite

*Subject to completion of a bankable feasibility study, detailed engineering and financing (post 2023).

** Initial production from Fort Cady small scale boron facility. Refer to Company ASX announcements (ASX: ABR).

Source: Company materials and publicly available information.

1) Project reportedly on hold after Serbian government opposition based on news release from December 23, 2021.

Significant Rerating Potential to Enhance Shareholder Returns



Catalysts for Value Creation



Positive BORON+
Supply/Demand Fundamentals



Vertically Integrated
Business Model



High Price and
Value in Use

Enterprise Value / 2022E EBITDA Multiple



Significant multiple upside potential for 5E:

- Wider application set
- Less competition
- Focus on value and use

Capital Markets Platform



Capital Structure

(As of March 11, 2022)

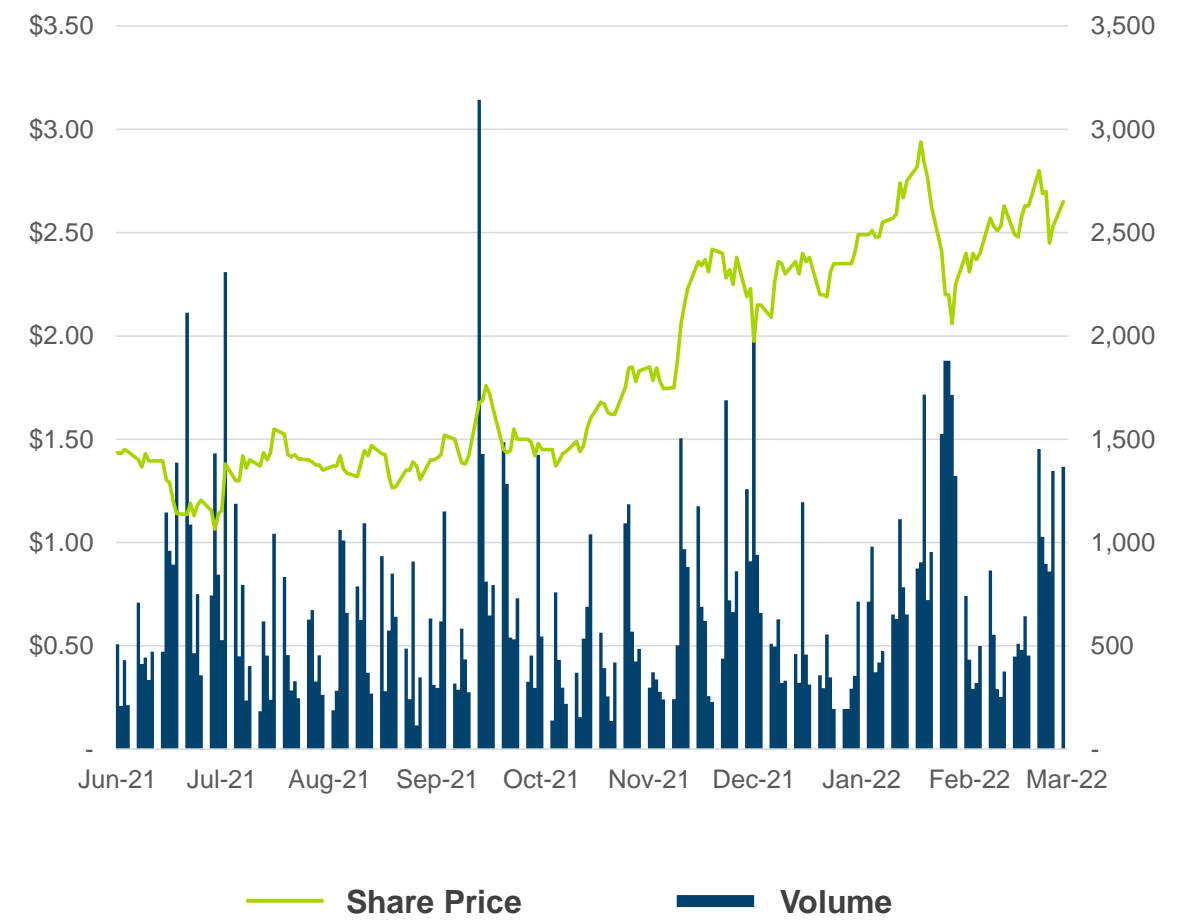
Share Price	A\$3.00/share
Market Capitalization	~US\$804 million
Net Cash	~US\$53 million



Listings
Primary Listing Moving to NASDAQ with CDIs on ASX.

Share Price & Trading Volume

(A\$/share; 000s)



Source: FactSet as of March 11, 2022.
Note: All dates and times are estimates and subject to change.



**ADVANCED
MATERIALS**

For Additional Information Please Contact:

Chance Pipitone
Investor Relations – U.S.
cpipitone@5advancedmaterials.com

Elvis Jurcevic
Investor Relations – Australia
ej@irxadvisors.com

Chris Sullivan
Media
chris@macmillancom.com

BORON⁺