

Corporate Presentation

Enabling Global Decarbonization with **BORON**+

March 2022

Cautionary Statements

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Forward-looking statements involve known and unknown risks, uncertainties and other important risk factors many of which are beyond the control of the 5E Group, and which may cause actual timing of events, results, performance or achievements and other factors to be materially different from the future timing of events, results, performance or achievements expressed or implied by the forward-looking statements., which include but are not limited to the following risk factors: 5E (our, we, the Company) future performance is difficult to evaluate due to limited operating history in the borates industry and no sustained revenue from our properties, which may negatively impact our ability to achieve business objectives; Failure to obtain additional financing and maintain sufficient funds to continue ongoing operations could result 5E business being at risk or execution of business plans being delaved; 5E is an exploration stage company with no known reserves, estimates of resources and mineralized material are inherently uncertain and subject to change, the volume and grade of ore actually recovered may vary from our estimates; We have no history of mineral production and we may not be able to successfully reach our downstream processing ambitions; estimates relating to the development of the Project and mine plan are uncertain and 5E may incur higher costs and lower economic returns than estimated; 5E's long-term success will depend ultimately on its ability to a achieve and maintain profitability and to develop positive cash flow from its operating activities; uncertain global economic conditions could have a material adverse impact on our business, financial condition, results of operations or prospects; The 5E Group invested and will continue to invest significant amounts of capital in the Project on development activities, which involve many uncertainties and operating risks that could prevent it from realizing profits; Title to mineral properties and related water rights is a complex process and we may suffer a material adverse effect in the event the Fort Cady property or other properties that the Company may acquire are determined to have title deficiencies; 5E leases a portion of the Fort Cady site from a third party under a mineral lease agreement that expires in 2022 and while the parties are actively neoptiating terms of a new mineral lease, there can be no assurance that the parties will be able to reach agreement on the terms of a new lease or that the terms of a new lease. Company than the terms of the current mineral lease; the mining industry is historically a cyclical industry and market fluctuations in the process of borates and other minerals could adversely affect our business; as shortage of equipment or disruption in our supply chain could adversely affect our ability to operate our business; we are required to obtain and maintain governmental permits in order to conduct development and mining operations, a process which is often costly and time-consuming; operations are predominantly located in a single geographic region, making us vulnerable to the risks associated with operating a single geographic region concentrating. our capital investment in the State of California increases our exposure to risk; the company may acquire additional businesses or assets, form joint ventures or make investments in other companies in the future that may be unsuccessful and may harm our operating results and prospects. 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, 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 by third parties, industry reports and publications or other publicly available information.

JORC CODE AND REGULATION S-K 1300 MINERAL RESOURCES

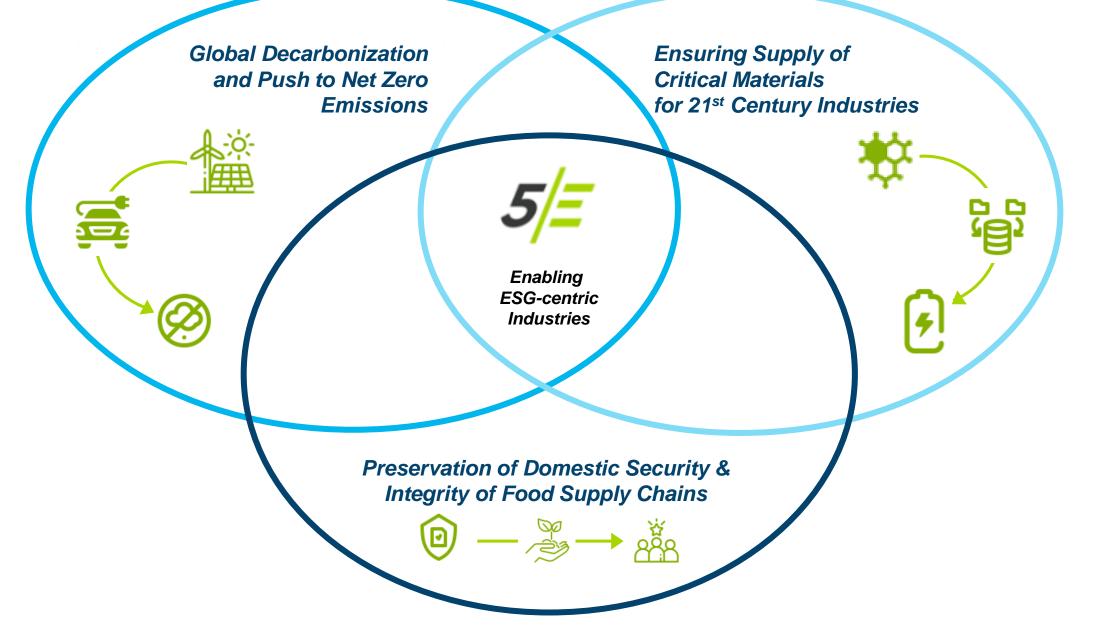
In this Presentation, some references to estimated mineral resources are compliant with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the "JORC Code") and other references to estimated mineral resources are compliant with the Australasian Code for Reporting 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 use the U.S. Securities Act ("Regulation S-K 1300"), whereas mining companies in other countries. Mining disclosure in the United States was previously with the JORC Code and Regulation S-K 1300, it may not comply with the relevant guidelines in other countries. Mining disclosure rules was previously required to comply with 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 replaces the historical property disclosure requirements included in SEC Industry Guide 7. Regulation S-K 1300 replaces the historical property disclosure requirements included in SEC Industry Guide 7. Regulation S-K 1300 replaces the historical property disclosure requirements included in SEC Industry Guide 7. Regulation S-K 1300 replaces the historical property disclosure requirements included in SEC Industry Guide 7. Regulation S-K 1300, it may not companies to disclose in their SEC filling Specified information concerning their mineral resources, in addition to mineral resources, and mineral resources, and mineral resources, and mineral resources, and diftion to mineral resources, and diftion to mineral resources, and diftion to mineral resources, and standards, including the JORC Code. The SEC Mining Disclosure Rules more closely ali

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.Geo 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 Ford 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 and Item 601(b)(96) (technical report summary) of Regulation S-K. The Mineral Resource estimates reported in accordance with Regulation S-K 1300 in this Presentation are extracted from the Report.

5E Sitting at the Crossroads of Major Emerging Themes





Building a Global Leader in BORON⁺ Advanced Materials





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

BORON⁺ Coming Into Focus; 5E Positioned to Become an Advanced Materials Leader



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

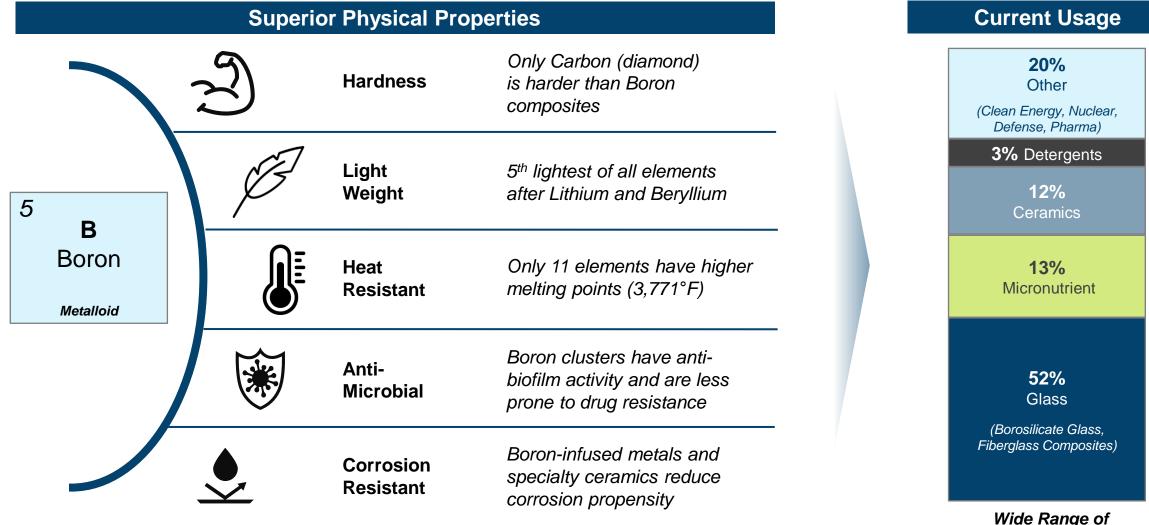


BORON+

Why BORON+

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





Traditional Applications, with Limited Substitutability

Source: Company materials, Royal Society of Chemistry and Millcreek Mining Group

Usage and Value in Use Shifting Towards Future Facing Applications





Images courtesy of Pixabay.

BORON+ a Critical Building Block in Enabling Decarbonization & Security



3.3% CAGR Growth in Global Military Spending (2000-2020)

~\$2.0 Trillion Global Spending on Defense (2020)

Green Energy

5.8% CAGR Global Installed Wind & Solar Capacity (2019-2050)

~\$55 Trillion Global "Green" Energy Infrastructure Investment (2016-2050)¹

BORON⁺ the "Enabler Mineral"



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Electric Vehicles

~30% CAGR

Global Electric Vehicle

Stock Growth (2020-2030)

~145m

Global Electric Vehicle

Stock by 2030

Boron Magnets for Drivetrains

High-Strength Boron-Infused Steel



Borosilicate Glass & Coatings Light-Weight Boron fiberglass



Food Security

+1.9 Billion

Increase in Global

Population by 2050

>40%

Lands Experiencing Severe

Yield Reductions by 2050

Boron Micronutrients Super Fertilizers



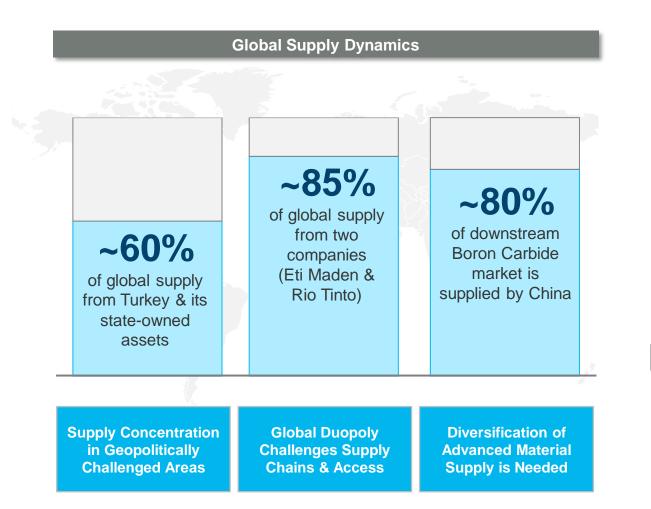
Boron-Infused Tank Armor Plating Boron Rods for Nuclear Reactors

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

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







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

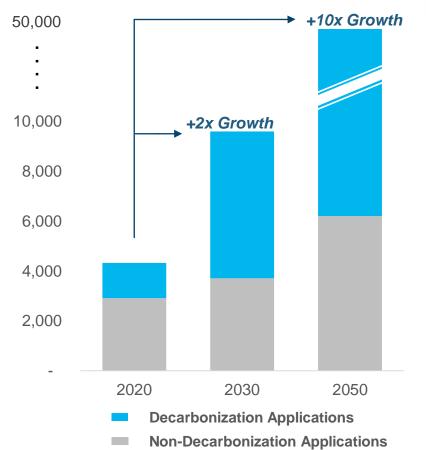
The Global Supply Chain Demands a New, Stable Source to Deliver Critical BORON⁺ Advanced Materials

Confluence of Explosive Demand Growth and Growing Supply Shortfall



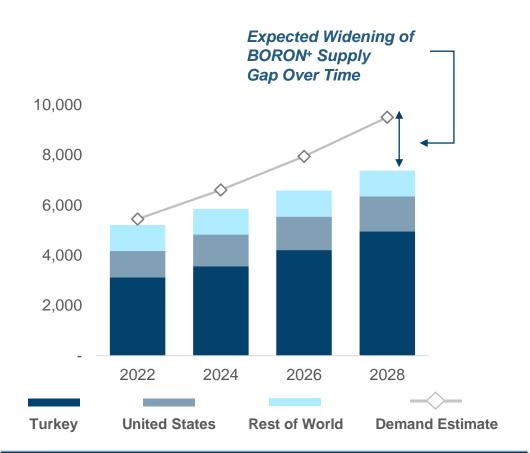


(k tonnes; boric acid equivalent)



Explosive Demand Growth Driven by Key Decarbonization Sectors

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



Continued Supply Pressures Bringing the BORON⁺ Supply Gap into Focus

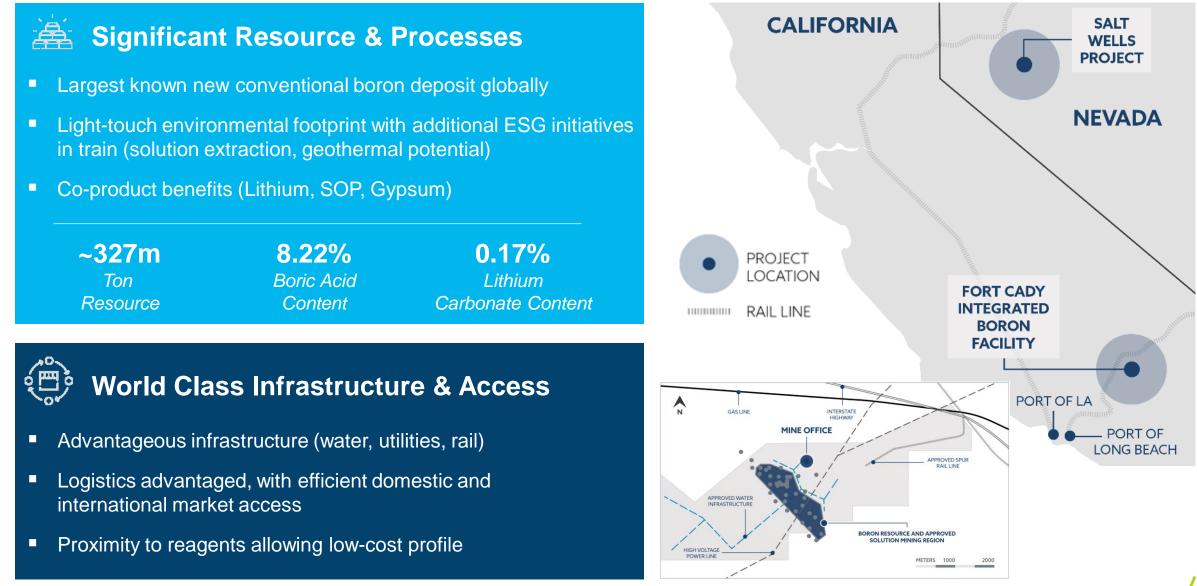


BORON⁺

Why 5E Advanced Materials

Significant Resource in Strategic Location with Advantageous Infrastructure





Building a Fully Integrated BORON⁺ Advanced Materials Business



1 Extraction	2 Process	3 Value-Add
 Backwards integration Access to low cost supply 400ktpa+ target run-rate production* 5.1% boric acid in solution 	 Low carbon footprint Attractive cost profile via by-product sales Build or buy advanced material capabilities 	 Enter agreements to deliver BORON⁺ advanced materials Go-to-market strategy underpinned by long-term partnerships R&D to innovate new decarbonization- enabling applications

5E as Leader Across the BORON⁺ Advanced Materials Supply Chain



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

Source: Worldometers and IEA.

Building Our Competitive Strategic Advantage

Focus Areas Key Sector and Application

- 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





- Upgraded Fort Cady Resource
- Focus on integrated production
- · Assembled management team

- Complete Fort Cady BFS
- Complete Fort Cady small scale boron facility*
- · Advance commercial partnerships and supply agreements

- 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)

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



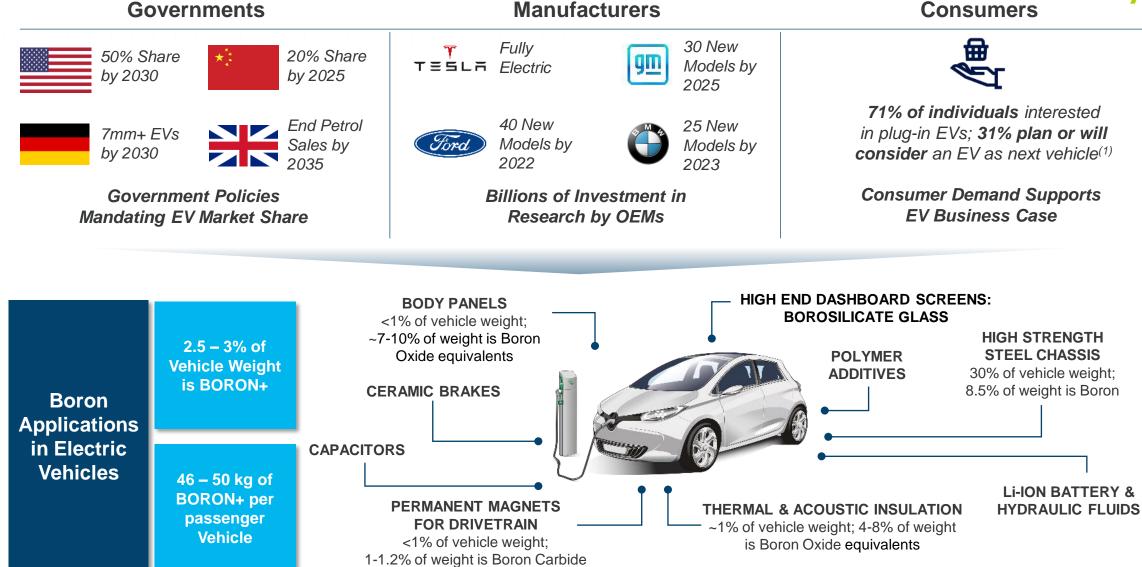


BORON+

Appendix

BORON⁺ is an Essential Input in the Electrification of Transport





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	ММТ	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

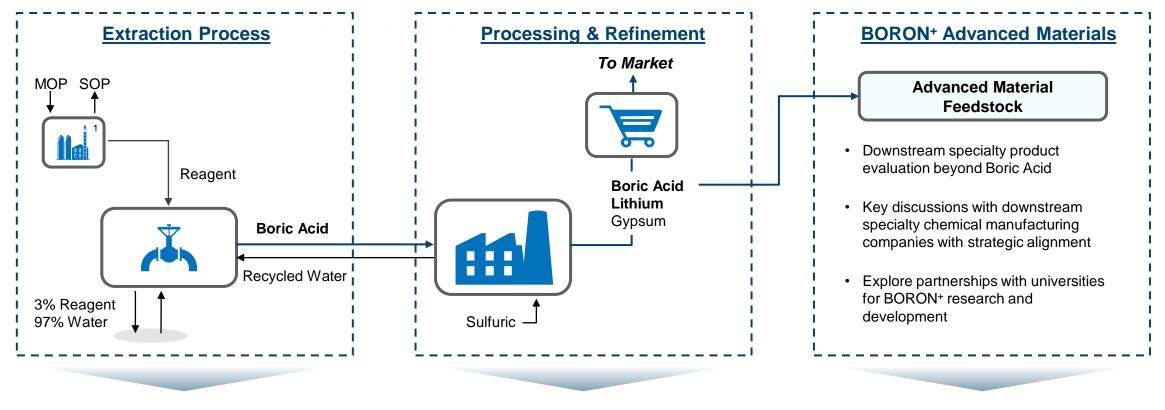
Total S-K 1300 and Uncontrolled Mineral Resource Estimate at 2% cut-Off Grade						
Resources	MsT	B ₂ O ₃ %	H ₃ BO ₃ %	Li ppm	B ₂ O ₃ MsT	H ₃ BO ₃ MsT
Total M, I&I	326.55	4.62	8.22	323	15.09	26.85

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



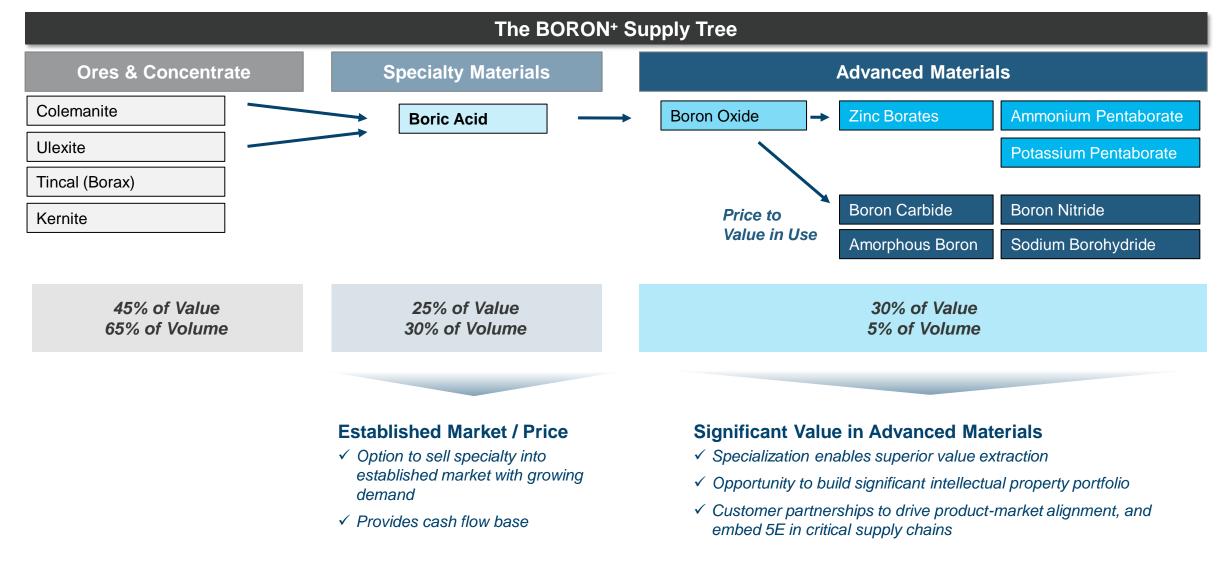


Environmentally-Friendly Extraction Process Ability to Sell Boric Acid Direct into Established Markets; Feed for Downstream Business Developing Downstream BORON⁺ Specialty Capabilities for Higher-Value Applications

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

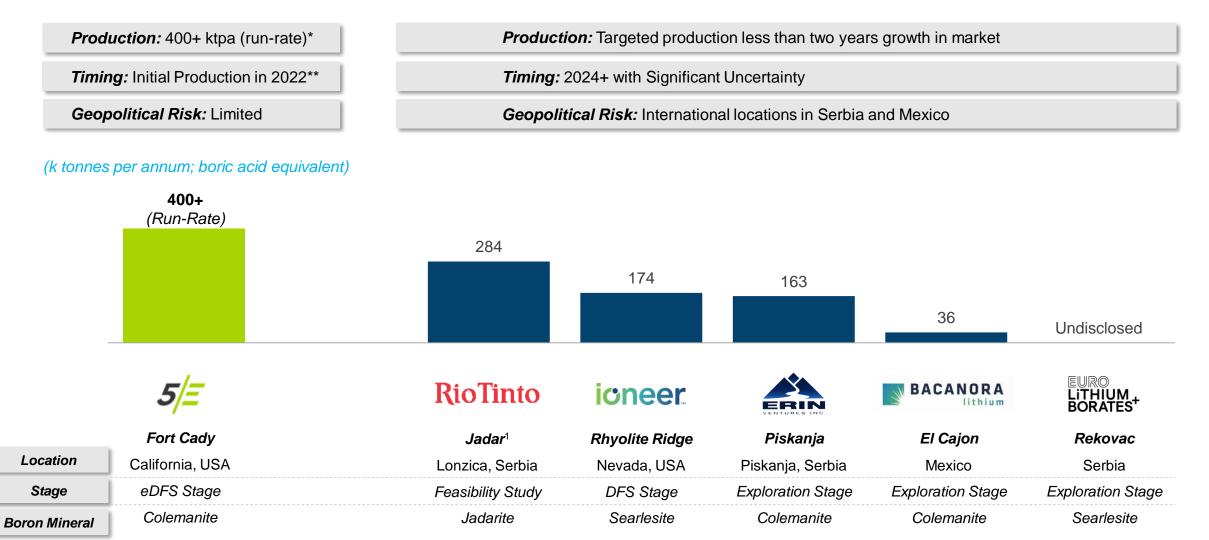
Generating Superior Value in Downstream Advanced and Specialty Materials





Few Near-Term Supply Alternatives Potentially Entering Service





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

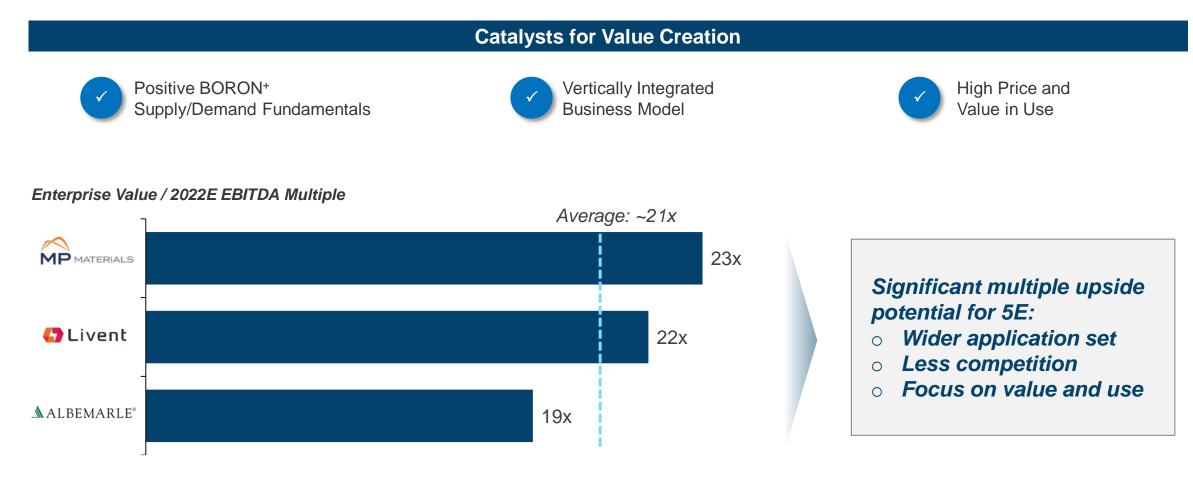
** Initial production from Fort Cady small scale boron facility. Refer to Company ASX announcements (ASX: ABR).

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



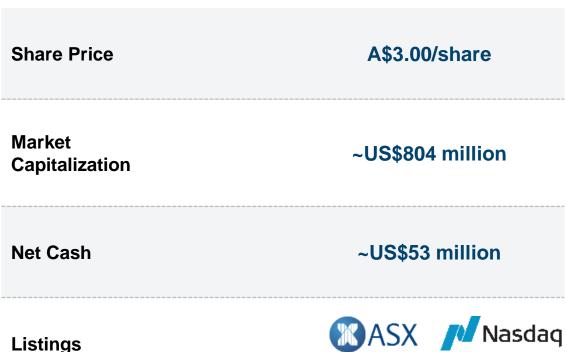


Capital Markets Platform



Capital Structure

(As of March 11, 2022)

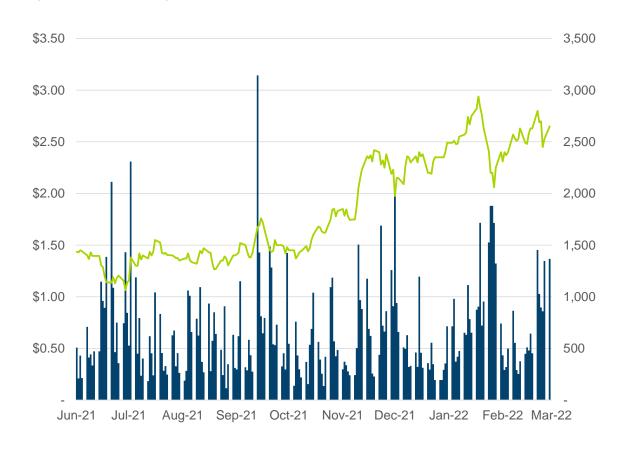


Listings

Primary Listing Moving to NASDAQ with CDIs on ASX.

Share Price & Trading Volume

(A\$/share; 000s)



Share Price

Volume



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