

COMPANY OVERVIEW / FLAGSHIP PROJECT

Blackstone Minerals Ltd (ASX: **BSX**) is a mineral exploration and development company, with a 90% interest in the Ta Khoa district scale nickel project in Vietnam. BSX is actively exploring and developing the project which will include the refining of nickel-cobalt concentrate into a NCM precursor to satisfy the demand of its strategic partner Ecopro and potentially other battery manufacturers.

KEY ELEMENTS OF STRATEGY

BSX pursues a two-fold strategy:

1. Upstream: aiming to deliver a Definitive Feasibility Study (DFS) for restart of mining operations at Ta Khoa with MSV (massive sulfide veins) ore being processed at the existing concentrator (450,000 tpa) and a blend of MSV + DSS (disseminated sulfides) ore being processed in a new treatment plant (8 million tpa capacity).
2. Downstream: produce NCM (nickel-cobalt-manganese) precursor to be delivered to cathode manufacturers including its current partner Ecopro.

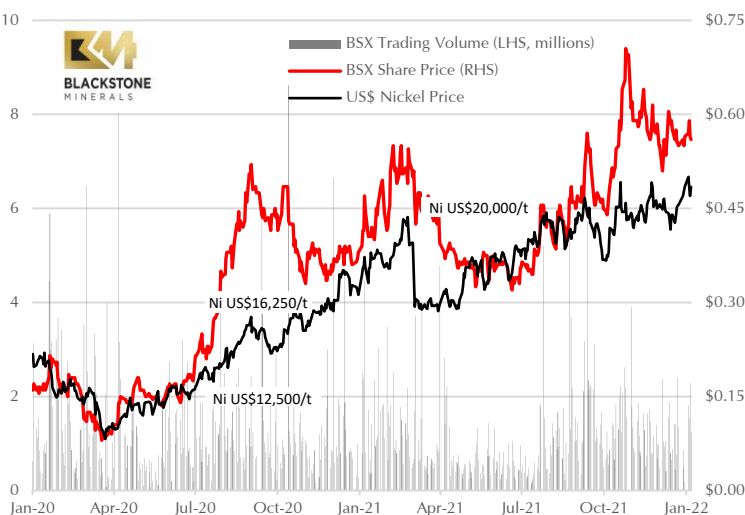
The production of a NCM precursor adds significant value far beyond the refining step as the payability, typically (70-80%) affecting the sale of nickel concentrates, becomes irrelevant and BSX eliminates the Vietnamese tariffs applied to the export of nickel concentrates.

KEY OUTCOMES IF SUCCESSFUL

- ✓ Globally significant mineral resource project
 - 1. Larger scale and with a longer mine life
 - 2. Value added nickel product to attract Li-ion battery raw materials manufacturers and traders
- ⇒ The recent mineral resource update bodes well for the success of BSX' strategy

CORPORATE OVERVIEW (AUD)

Shares	449.6 million ordinary fully paid shares
Options	12 Jun 22: 1 million \$0.20 unlisted options 20 Feb 25: 0.9m \$0.001 employee perf. options* 20 Aug 25: 3.45m \$0.001 employee perf. options* 3 Dec 26: 6.8m nil exercise price options * subject to vesting conditions
Share Price	\$0.56
Market Cap.	\$251.8 million
Cash	\$13 million as at 30 September 2021 + \$60 million raised in two tranches (+SPP) in Nov and Dec 2021 ⇒ Fully funded for drilling programs and development studies



⇒ BSX share price leveraged to the nickel price

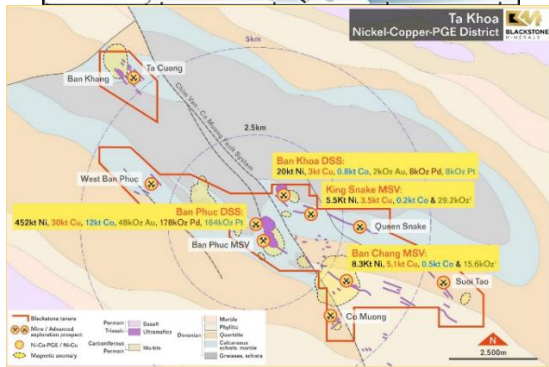
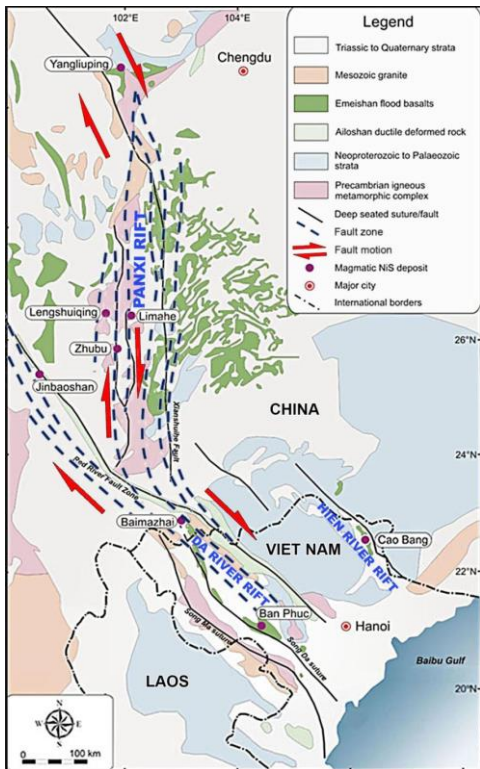
ACHIEVEMENTS AND MILESTONES

Project Acquisition	<ul style="list-style-type: none"> • A relatively cheap acquisition (about A\$1.7 million in cash and shares) vs. US\$136 million invested by the previous owner
Drilling Results	<ul style="list-style-type: none"> • Good drill intercepts such as 45m @ 1.2% Ni and 60m @ 1.3% Ni
Multiple Discoveries	<ul style="list-style-type: none"> • King Cobra Zone disseminated mineralisation • Ban Chang massive sulphide veins • King Snake massive sulphide veins • Ban Khoa disseminated mineralisation
Mineral Resource	<ul style="list-style-type: none"> • Globally significant mineral resource of 130 Mt @ 0.37% Ni for 485,000 t nickel metal contained
Mining	<ul style="list-style-type: none"> • ~1,000m development through the Ban Phuc disseminated nickel deposit to extract representative ore for processing
Processing	<ul style="list-style-type: none"> • Recommission the Ban Phuc 450,000 tpa nickel concentrator to produce two batches of concentrate for the refinery pilot programs
Development Studies	<ul style="list-style-type: none"> • Scoping Study for the development of the Ta Khoa project - upstream & downstream (Oct 2020) • Pre-Feasibility Study for the Ta Khoa Downstream Refinery (July 2021) • Development of pilot plant phase 1 (ALS in Perth) approved and started • Pilot plant phase 2 to be built in Vietnam to 1:25 scale to process 1t per hour of concentrate • First batch of NCM811 precursor sample produced
Partnership	<ul style="list-style-type: none"> • An alliance with South Korea's largest electric vehicle (EV) battery cathode manufacturer, Ecopro BM Co Limited to develop the downstream processing infrastructure • Non-Binding LOI with Trafigura one of the largest physical commodities trading groups to supply nickel and cobalt products
Funding	<ul style="list-style-type: none"> • Successive capital raisings at higher share prices. Previous raisings: <ul style="list-style-type: none"> • 10 May 2019: 40m shares at \$0.05 for \$2.0 m • 23 Sep 2019: 30m shares at \$0.15 for \$4.5m • 7 April 2020: 40m shares at \$0.17 for \$6.8m (Ecopro), 62% premium at the time • 14 Sep 2020: 42m shares at \$0.42 for \$17.8m including Fidelity International for \$8m • Nov/Dec 2021: 95m shares at \$0.58 for \$55m
Technical and Financial Support	<ul style="list-style-type: none"> • ALS and Wood supporting the pilot plant and DFS work for the Ta Khoa Refinery • Ecopro is the world's second largest and South Korea's largest nickel-rich cathode materials manufacturer. • Fidelity International one of the world's leading investment & asset management companies with more than A\$500 billion invested globally • Appointment of the Korea Development Bank and Burnvoir Corporate Finance to secure a funding package for project development
ESG Green Nickel™	<ul style="list-style-type: none"> • Aim to develop a zero-carbon mining operation and downstream processing facility • Green hydrogen study underway using hydro-electric power readily available to produce the oxygen required for the downstream process
Value-Add	<ul style="list-style-type: none"> • Market capitalisation increasing from A\$7m to A\$252m • Share price increasing from \$0.064 to \$0.56 (with a high at \$0.705)
Share Market	<ul style="list-style-type: none"> • BSX trading on ASX and OTC-QX markets

TA KHOA NICKEL-COPPER-PGE DISTRICT

Geology

- Ta Khoa located in Song Da Rift, which is a major crustal suture zone continuing north into China, where it is associated with similar Ni-Cu-PGE deposits: Baimazhai, Qungquanshan, Limahe and Yangliuping.



Exploration Potential

- The Ta Khoa project contains 12 nickel prospects for high grade massive sulphide veins, most with economic drill hole intercepts
- ⇒ Beyond the Ban Phuc deposit, the prospectivity of the Ta Khoa project is at district scale

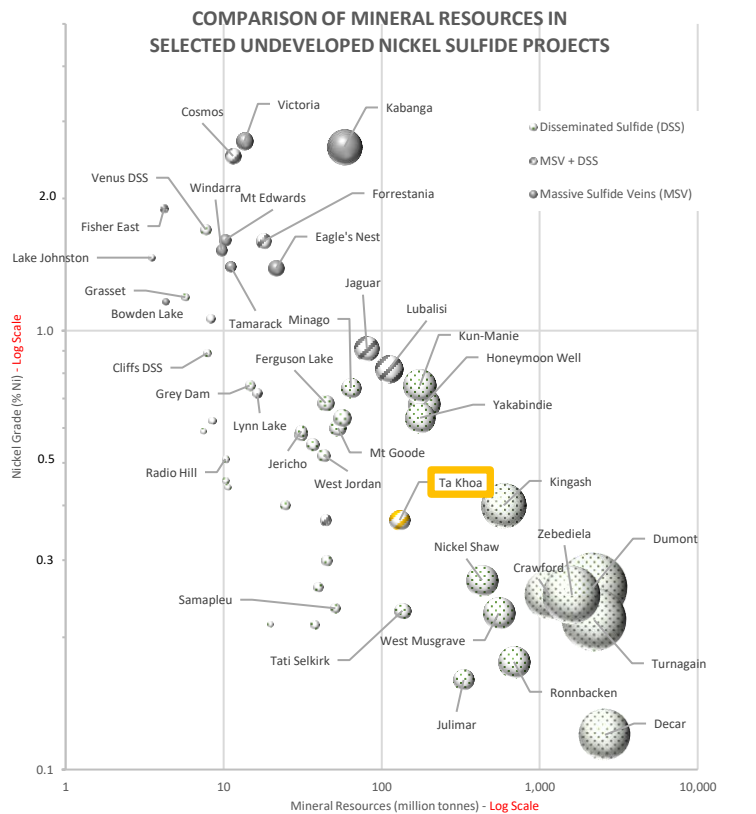
Ta Khoa Mineral Resource (Dec 2021)	Category	Tonnes	Ni grade	Ni metal
	Indicated	102 Mt	0.38%	383,000 t
	Inferred	28 Mt	0.36%	102,000 t
	Total	130 Mt	0.37%	485,000 t

The mineral resource also contains Cu, Co and PGE. Please see 23 Dec 2021 ASX announcement for complete mineral resource statement

Concentrator Throughput

- Given the large increase in the mineral resource from 58 Mt (maiden mineral resource Oct 2020) , a throughput of 8 Mtpa is now the base case for the new concentrator in the Upstream PFS

MINERAL RESOURCE BENCHMARKING



⇒ The Ta Khoa mineral resource made of both massive sulfide veins and disseminated sulfide presents a good combination of size and grade

KEY RISKS AND MITIGANTS

Geological	<ul style="list-style-type: none"> ▪ Through the past and recent discoveries, BSX has demonstrated the high prospectivity of the Ta Khoa project for disseminated nickel sulphide mineralisation as well as massive sulphide veins.
Technical (mining, processing, completion, etc)	<ul style="list-style-type: none"> ▪ Overall technical risks are significantly mitigated by the previous operation up to the production of nickel concentrate ▪ The pressure oxidation (POx) process treating the nickel concentrate is commonly and successfully used to process base metal concentrates ▪ The Ecopro alliance and expected JV for the downstream processing should reduce the technical risks quite significantly ⇒ POx should not be confused with the HPAL process, which treats lateritic ore rather than a concentrate
Financial	<ul style="list-style-type: none"> ▪ BSX is mitigating the financing risk by developing an alliance with Korea's largest electric vehicle (EV) battery cathode manufacturer, Ecopro BM Co Limited (MoU signed in December 2019)
Market	<ul style="list-style-type: none"> ▪ The nickel market outlook is excellent: <ul style="list-style-type: none"> ○ Tight market balance expected from 2022 onwards ○ Low official inventories ○ Increasing Chinese imports ○ Booming market demand from the battery sector although from a currently low base

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