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The Company disclaims any intent or obligation to update publicly any forward-looking statements, whether as a result of new information, future events or results or otherwise. The words 'believe', 'expect', 'anticipate', 'fundicate', 'fundica

'budget', 'estimate', 'may', 'will', 'schedule' and other, similar expressions identify forward-looking statements. All forward-looking statements are not guarantees of future performance and, accordingly, investors are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty therein.

Many known and unknown factors could cause actual events or results to differ materially from estimated or anticipated events or results reflected in such forward-looking statements. Such factors include, but are not limited to: competition; mineral prices; ability to meet additional

regulation and unknown factors could cause actual events of results to uniform stimulated of anticipated events of results reflected in such following statements. Such factors could cause actual events of results to uniform stimulated of anticipated events of results reflected in such following statements. Such factors factors could cause actual events of results of metal and incipated events of results and resource estimates; dependence on third-party smelting facilities; factors associated with foreign operations and related regulatory risks; environmental regulation and liability; currency risks; effects of inflation on results of operations; factors relating to title to properties; native title and Aboriginal heritage issues; dependence on key personnel, and share-price volatility. They also include unanticipated and unusual events, many of which it is beyond the Company's ability to control or predict.

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Cautionary Statement: The Exploration Targets reported herein are not JORC compliant Mineral Resources. The potential quantity and grade of the Exploration Targets are conceptual in nature, there has been insufficient exploration to determine a Mineral Resource and there is no certainty that further exploration work will result in the determination of a Mineral Resource.

COMPETENT PERSON'S STATEMENT

- The information contained in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Mr. Peter Langworthy, a member of The Australasian Institute of Mining and Metallurgy. Mr. Langworthy is an employee of OmniGeoX Pty Ltd which is a consultant to BlackEarth. Mr. Langworthy has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves." Mr. Langworthy consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.
- The information in this report that relates to the Exploration Target for the Maniry Graphite Project is extracted from the report entitled "Exploration Target Update" dated 14 August 2018 and is available to view on the Company's website www.blackearthminerals.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.
- The information in this report that relates to the Maiden Resource Estimation for Razafy at the Maniry Graphite Project is extracted from the report entitled "Update Maiden Resource Estimation for Razafy at the Maniry Graphite Project" dated 14 August 2018 and is available to view on the Company's website (www.blackearthminerals.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.
- The information contained in this report that relates to Mineral Resources is based on information compiled by Ms. Annick Manfrino, Principal of Sigma Blue and Manager Geology of Black Earth Minerals. Ms. Manfrino is a member of The Australian Institute of Geoscientists and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activities undertaken to qualify as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves." Ms. Manfrino completed a site inspection and is the Competent Person for the resource estimation. Ms. Manfrino consents to the inclusion in this report of the matters based on her information in the form and context in which it appears.
- The information in this report that relates to the Maiden Resource Estimation for Haja at the Maniry Graphite Project is extracted from the report entitled "Update Maiden Resource Estimation for Haja at the Maniry Graphite Project" dated 27 December 2018 and is available to view on the Company's website (www.blackearthminerals.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.
- The information in this document that relates to metallurgical test work results is based on information compiled and reviewed by Mr David Pass, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Pass is an employee of BatteryLimits. Mr Pass has sufficient experience relevant to the mineralogy and type of deposit under consideration and the typical beneficiation thereof to qualify as a Competent Person as defined by the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code, 2012 Edition). Mr Pass consents to the inclusion in the report of the matters based on the reviewed information in the form and context in which it appears

Scoping Study Results*



Project life (processing) 10 years

NPV @ 10% pre-tax US\$ 103M

IRR pre-tax 42%

Project CAPEX Stage 1 US\$ 41M (500ktpa ore)

Stage 2 US\$ 29M (1Mtpa ore)

Operating Cost FOB US\$ 593/t

(Port of Ehoala)

Payback for Stages 1 & 2 3.7 years (Stage 1 only: 2.7 years)

Annual graphite production Av 30ktpa (Stage 1 – Years 1-3)

Av 60ktpa (Stage 2 – Years 4+)

Average Basket Price US\$ 1215/t





BEM's Year 1 Report Card





Listed on the ASX 19 January 2018



Commenced diamond drilling (March)



First Maniry – Razafy assays released (May)



Detailed mineralogy completed (July)



Indicated & Inferred Resource announced (August)



Exploration Target released (August)



Definitive metallurgical test work commenced (September)



Scoping Study commenced (September)



Definitive metallurgical results reported (December)



Haja Resource announced (December)

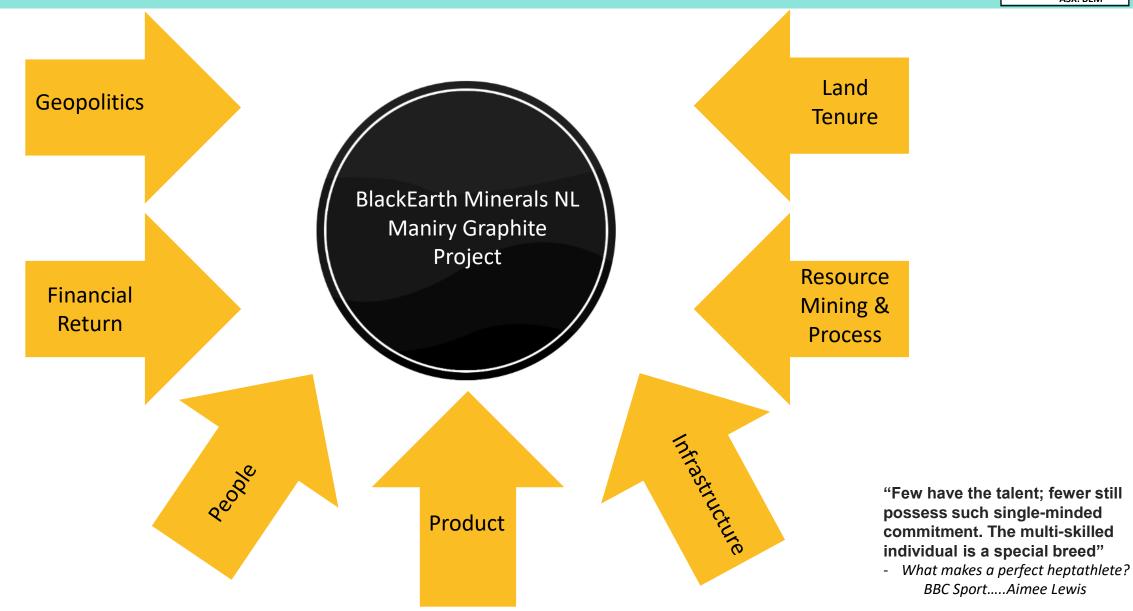


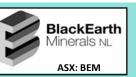
Scoping Study completed (January 2019)

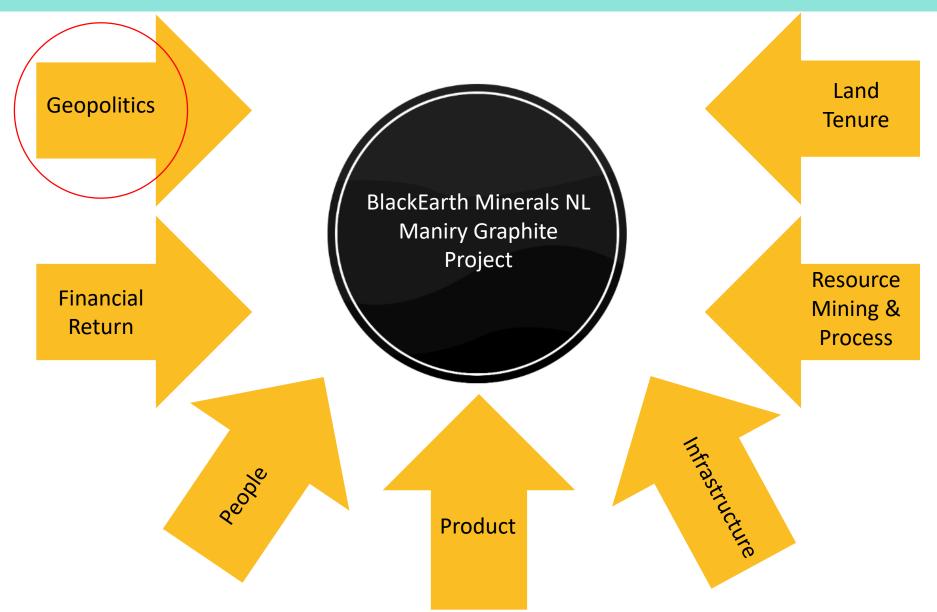












Location – Madagascar

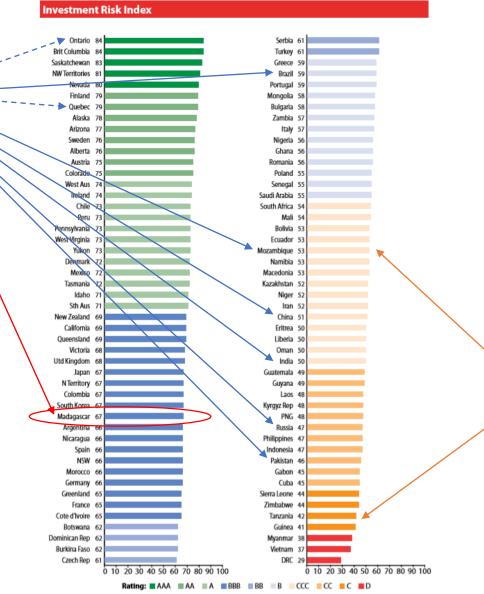




----- Canada

Norway and Ukraine are unranked

Over 90% of graphite is produced from countries considered "riskier" than Madagascar



	≥80	Negligible risk	AAA
	75-79	Low risk	AA
	70-74	Very low risk	A
	65-69	Low to moderate risk	BBB
	60-64	Moderate risk (lower)	BB
	55-59	Moderate risk (upper)	
	50-54	Moderate to high risk	
	45-49	High risk	CC
	40-44	Very high risk	C
	<40	Difficult to justify investment	D

Exploration Hotspots







40 Year Mining Lease Granted



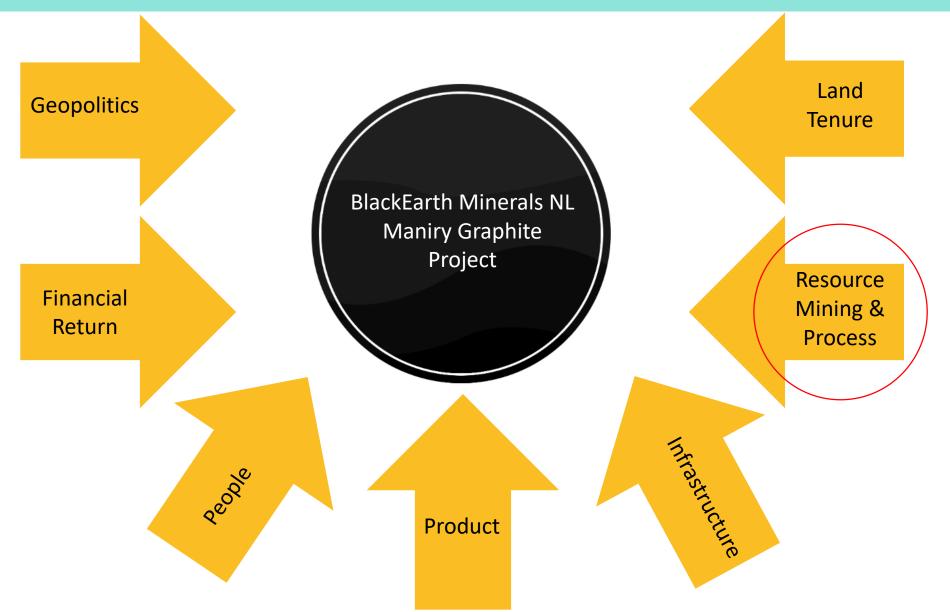
The Maniry Graphite Project contains the Razafy Resource which predominantly sits on the 40 year granted Mining Lease, PE/5394 (expires 19/11/2042 – with an option to extend)

This provides BEM with a LOM of > 8 years (incl Inferred material)

Previous exploration indicates that the Razafy prospect is open within the existing Mining Lease to the north west and potentially via lens repetition to the east







Resource

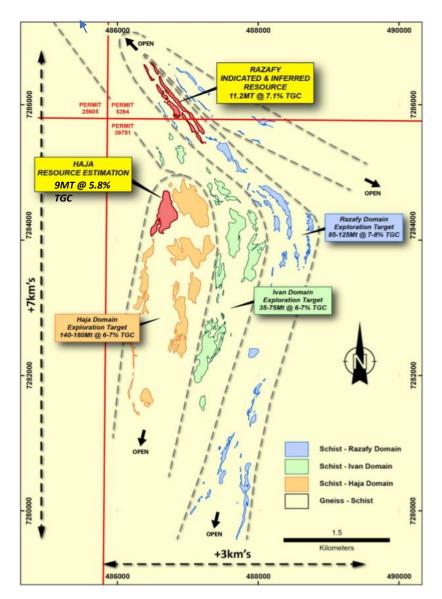


The financial model was built only on the Razafy Indicated Resource

The results reflect a thorough approach and understanding derived from extensive sampling & assaying, XRF, XRD and optical petrographics

34 large-scale zones of outcropping graphite schist exist over an area of 7km x 3km

Exploration Target* of 260-380Mt at 6-8%TGC; <u>significant upside</u>
*Refer Disclaimer



Mining



Soft to medium ore hardness

Dilution factored into ore feed grade / financial model

Ore / waste contact well defined

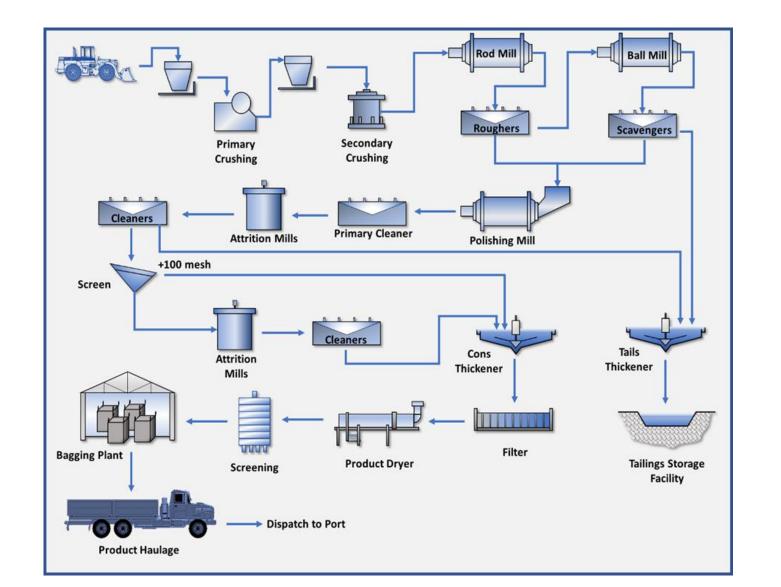
Simple mine plan focused on early high grade and low waste movement to maximise financial return

Contract mining assumed – available groups in Madagascar



Process





Simple and well proven technology

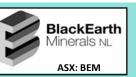
Soft to medium ore hardness

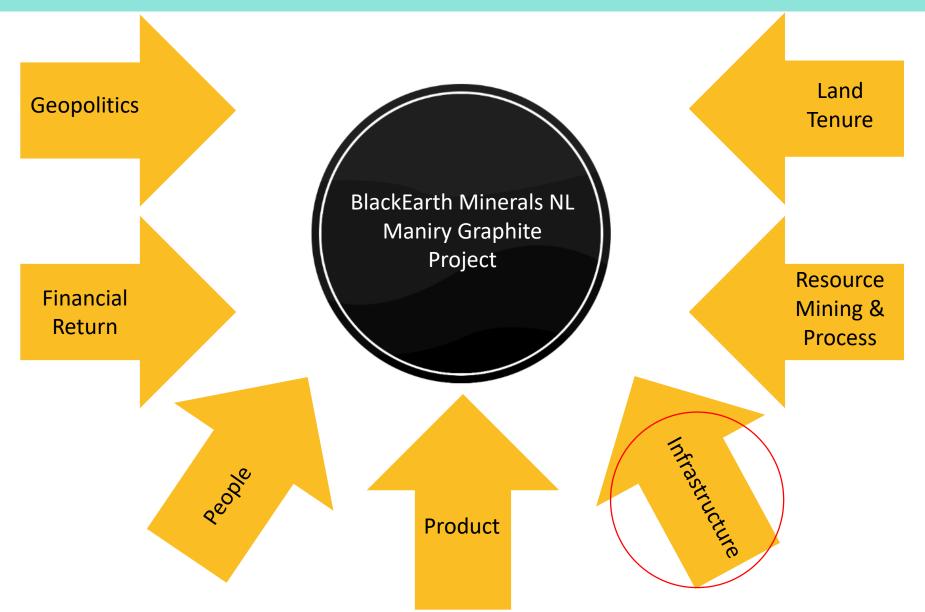
Low abrasion index

Experienced operators available

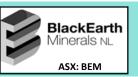
Consistent metallurgy along strike and at depth = predictability

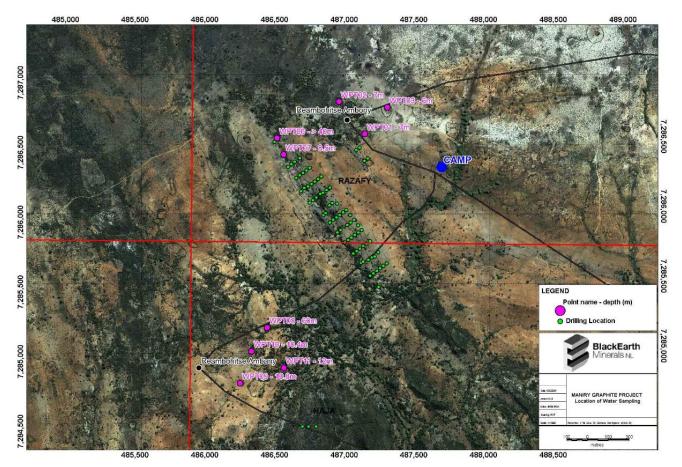
Very low sulphide content





Infrastructure (Water & Power)





Established water wells around the Razafy Resource

Water

Numerous wells (6-60 metres deep) already exist in the immediate area – all were quality tested and are suitable for processing ore; ALS test work included the use of site water

A nearby closed quarry in the area also contains significant water which was used during the drilling campaign in 2018

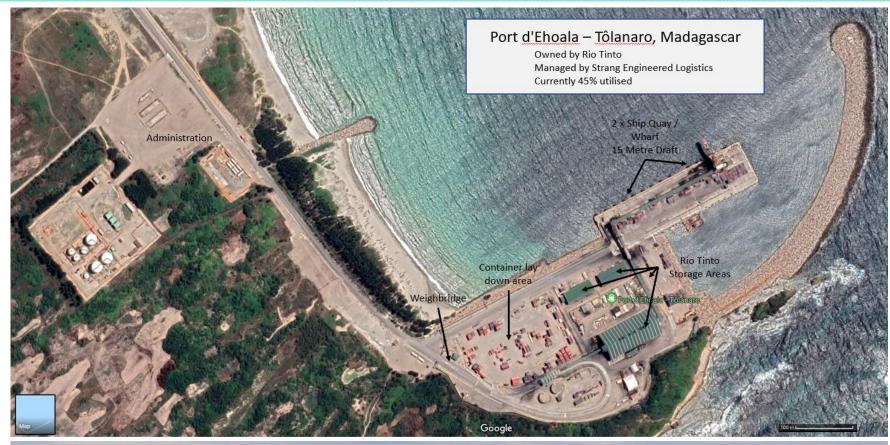
Est. annual rainfall 1020mm

Power

Total installed power for Stage 1 is 4MW It is planned to use diesel fired generators, diesel potentially sourced from either Ampanihy (30km) or from the ports of either Toliara or Ehoala

Infrastructure (Port)





The Port d'Ehoala was built by Rio Tinto under a public-private-partnership with the Government and completed in 2009

It was built to export mineral sands product but remains open to the public being only approximately 45-50% utilised

The port is managed independently by Strang Engineered Logistics; a subsidiary of Australian port operator – Patrick Terminals

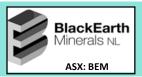
The port has a secure container storage area needed by BEM and has a 15m draft capable of berthing up to panamax sized cargo vessels





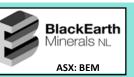


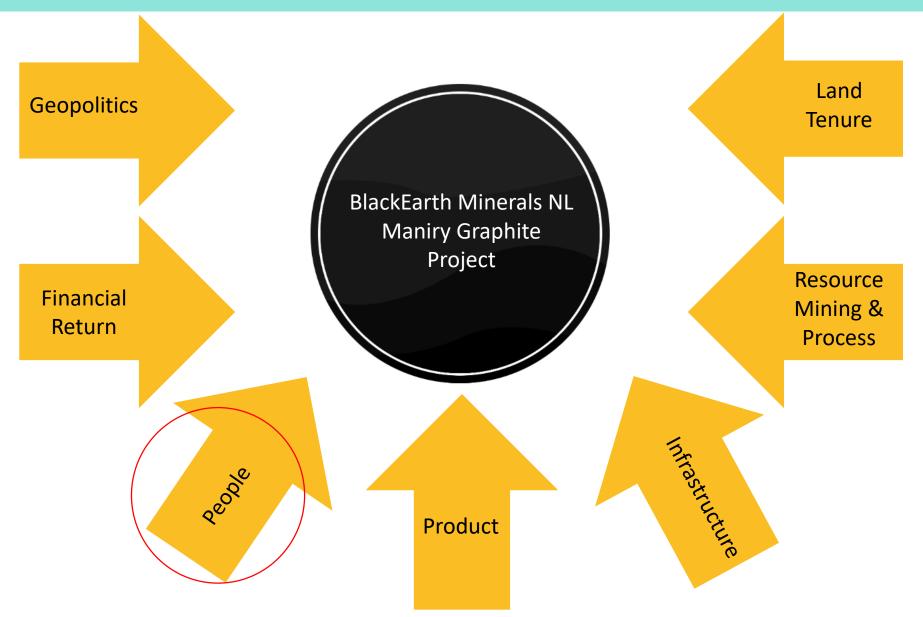
Product



Final Concentrate Size and Grade Distribution

- 1	Flake Size	(microns)	Mesh	Master Composite		
- 1				Mass (%)	TGC (%)	
High Value Product	Super Jumbo	> 500	38	2.8	95.8	
	Jumbo	300 – 500	+50-38	17.3 - 50%	96.1	
	Large	180 – 300	+80-50	29.8	95.6	
	Medium	150 – 180	+100-80	9.1	95.0	
	Small	-150+75	+200-100	23.6	96.8	
	Fine	< 75	-100	17.4	96.1	





People



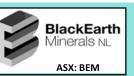
Experience and skills matrix

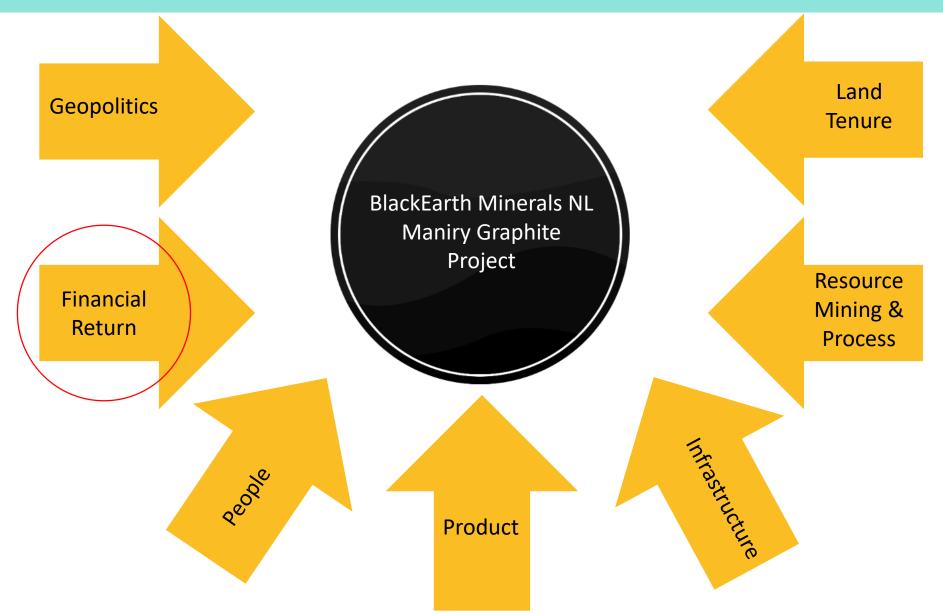
	Position	Experience (yrs)	Graphite	Madagascar	Africa	Project Development	Corporate / Commercial	Offtake Management
Phil Hearse	Chair	40+	*	~	~	*	*	
Tom Revy	Managing Director	35	~	~	~	*	*	*
George Bauk	Non-Exec Director	30			~	*	~	~
Barry Woodhouse	Company Secretary / CFO	30			*	*	~	
Tracy Harris	Financial Controller	20			~		~	
Peter Langworthy	Competent Person - Geol	30	~	~	~	*	~	
Annick Manfrino	Manager Geology	35			~	*		
Jean Luc Marquetoux	Country Manager	30		~	*	*	*	

10 staff in Madagascar and based in Antananarivo

All Madagascar residents and include Country Manager, technical staff, administration (incl. HR, accounting) and community liaison

Tom Revy remains the only fulltime staff member in Australia; 80-90% of expenditure goes into Madagascar / Maniry Project





Financial Return*



Project life (processing)10 years

NPV @ 10% pre-tax
 US\$ 103M

• IRR pre-tax 42%

• Project CAPEX Stage 1 US\$ 41M (500ktpa ore)

Stage 2 US\$ 29M (1Mtpa ore)

Operating Cost FOB US\$ 593/t

(Port of Ehoala)

Payback for Stages 1 & 2
 3.7 years (Stage 1 only: 2.7 years)

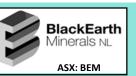
Annual graphite production Av 30ktpa (Stage 1 – Years 1-3)

Av 60ktpa (Stage 2 – Years 4+)



• Focus during Feasibility Study: Maximising basket price and feed grade - e.g an increase in feed grade from 6.3% to 7.3%TGC results in a project NPV of US\$152M and an IRR of 55%







Major Development Targets



- Complete the Bankable Feasibility Study (12 months)
- Offtake arrangements (6-12 months during feasibility)
- Project finance (6 months 2019-20)
- Construction modular EPC (2020-21)
- Commissioning & first production (H1, 2021)
- Further exploration successes ongoing



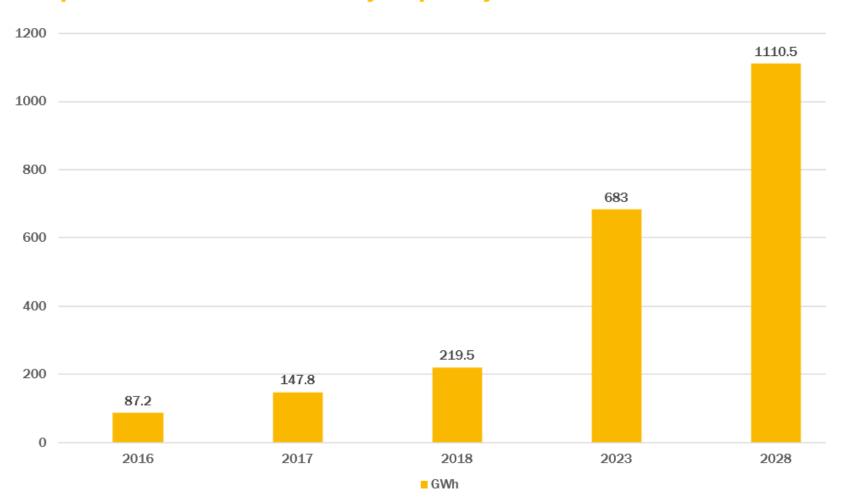


The Right Commodity at the Right Time





Pipeline lithium ion battery capacity out to 2028



Est. 10 year battery capacity growth of 891GWh

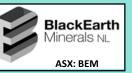
Equates to > 900kt "batterysuitable" natural graphite or up to 2.7Mt new production

Feedstock typically 75-180µm

Benchmark Mineral
Intelligence has identified
"base case" graphite supply
shortages to commence
around 2023



Global Trends in the Graphite Market



- Expandables flame retardants and thermal shields
- Feedstock typically >180μm
- "China needs 40 million tonnes of fire retardant building materials per annum, which will contain 5% expandable graphite." President of the China Building Materials Application Technology Research Institute



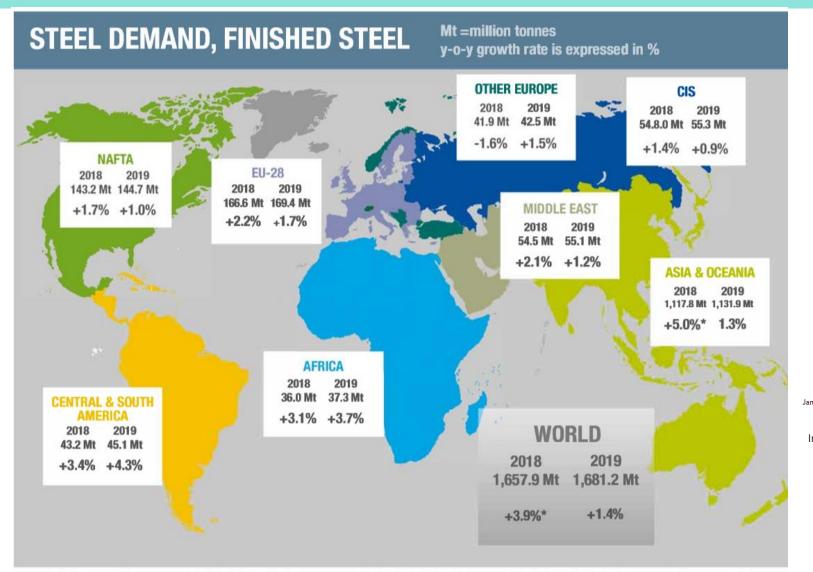


West London's Grenfell Tower



Global Trends in the Graphite Market





• <u>Steel Industry</u> - Strong industrial foundation



Iron ore prices refer to Iron Ore Fine China Import 63.5 percent grade Spot Cost and Freight for the delivery at the Chinese port of Tianjin





Thank You





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