



BLACK CANYON

ASX Announcement



23 June 2022

ASX:BCA

Corporate Presentation – RIU conference

Black Canyon (ASX: BCA) is pleased to release the following presentation that Executive Director, Mr Brendan Cummins presented at the RIU Investment Showcase, on Wednesday 22 June.

The video of the presentation will be available from the company's website at www.blackcanyon.com.au once received.

This announcement has been approved by the Board of Black Canyon Limited.

For further details:

Brendan Cummins
Executive Director

Telephone: +61 8 9426 0666

Email: Brendan.cummins@blackcanyon.com.au

For media and broker enquiries:

Andrew Rowell
White Noise Communications

Telephone: +61 8 6374 2907

Email: andrew@whitenoisecomms.com

ASX Code: BCA

Registered Address
283 Rokeby Road
Subiaco, WA, 6008

Telephone: +61 8 9426 0666
Email: info@blackcanyon.com.au
Website: www.blackcanyon.com.au



BLACK CANYON

**PILBARA FOCUSED
MANGANESE EXPLORER**
Brendan Cummins

RIU Gold Coast Investment Showcase
June 2022

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Some of the statements contained in this presentation are forward-looking statements. Forward looking statements include but are not limited to, statements concerning estimates of expected costs, statements relating to the advancement of the Company's investments and other statements which are not historical facts. Although the Company believes that its expectations reflected in the forward-looking statements are reasonable, such statements involve risk and uncertainties and no assurance can be given that actual results will be consistent with these forward-looking statements. Various factors could cause actual results to differ from these forward-looking statements include the potential that the Company's projects may experience technical, geological, metallurgical and mechanical problems, changes in product prices and other risks not anticipated by the Company or disclosed in the Company's published material.

COMPETENT PERSONS STATEMENT

The information in this report that relates to exploration results and exploration targets and results is based upon information reviewed by Mr Brendan Cummins who is a member of the Australian Institute of Geoscientists (AIG). Mr Cummins is an Executive Director of Black Canyon Ltd and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which 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 Cummins consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Corporate Overview

BCA
ASX Code

\$4.8M¹
Cash (As of 31 Mar 2022)

51.4m²
Shares on Issue

\$13.4M
Market Cap (As at 20/06/2022)

3.15M
Unlisted Options (\$0.25 exercise)

\$8.6m
Enterprise Value

Experienced Board



Graham Ascough
(Non-Executive Chairman)

Geophysicist

Mr Ascough is a resources executive and geophysicist with more than 30 years' experience. He is presently Non-Executive Chairman of Musgrave Minerals Ltd, Sunstone Metals Ltd and PNX Metals Ltd.



Brendan Cummins
(Executive Director)

Geologist

Mr Cummins has over 25 years' experience across precious, base metals and bulk commodities. He is currently Non-Executive Director of Askari Metals and Consulting Geologist to recently construction funded Strandline Resources Ltd.



Simon Taylor
(Non-Executive Director)

Geologist

Mr Taylor is a geologist with over 25 years' experience in exploration, project assessment and development. He is Managing Director of Oklo Resources Ltd and a Non-Executive Director of Chesser Resources Ltd and Stellar Resources Ltd.



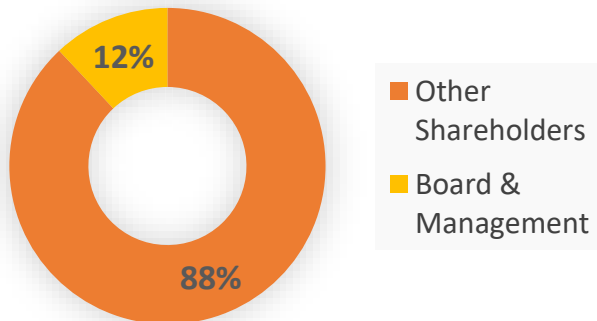
Adrian Hill
(Non-Executive Director)

Finance

Mr Hill is a senior executive with over 25 years' experience in strategic and finance roles in the resources, energy infrastructure and investment banking industries. He has an established record in strategy development, corporate structuring and capital raising.

1. Includes \$3.2m Placement BCA ASX Announcement 29/04/2022 BCA Raises \$3.2m to accelerate Flanagan Bore
2. Includes 9.7m shares BCA ASX Announcement 29/04/2022 BCA Raises \$3.2m to accelerate Flanagan Bore

BCA Shareholders



Top 20 shareholders – 37%

Primed for Growth



Manganese focused

Essential component into the steel industry and growing EV battery component



Premier location

Projects located in East Pilbara, existing Mn mines of Woodie Woodie, Butcherbird and export infrastructure at Port Hedland



Mineral Resources

Mineral Resource announced at LR1 and FB3 – 104 Mt @ 10.5% Mn. Higher Grade portion 33Mt @ 12.8% Mn
Upside remains on other tenements and targets



Strategy to develop

Proven pathway - discover and develop manganese mines. Longer term plans for downstream processing – battery precursor manganese sulphate



Experienced team

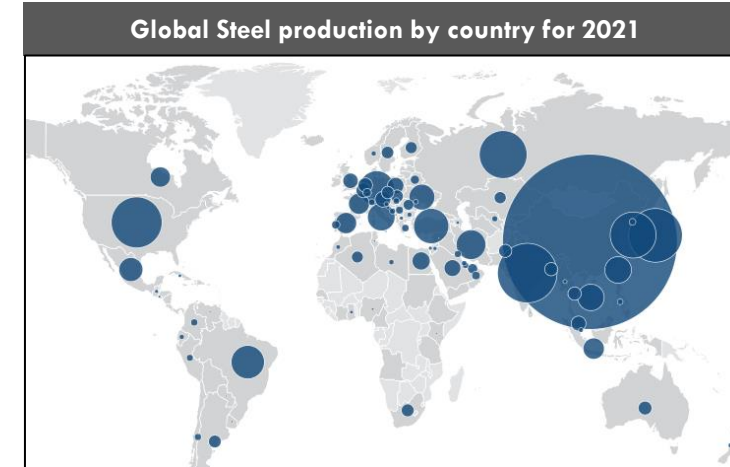
Strong record of exploration success and project development execution

Essential for steel and critical for EV Li-ion batteries

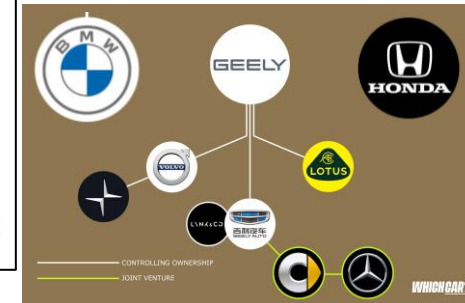
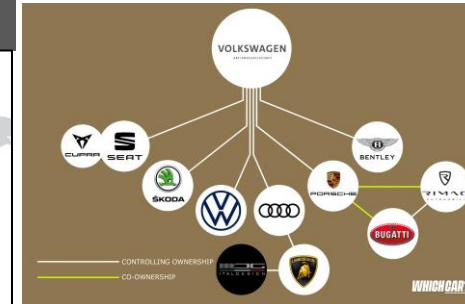
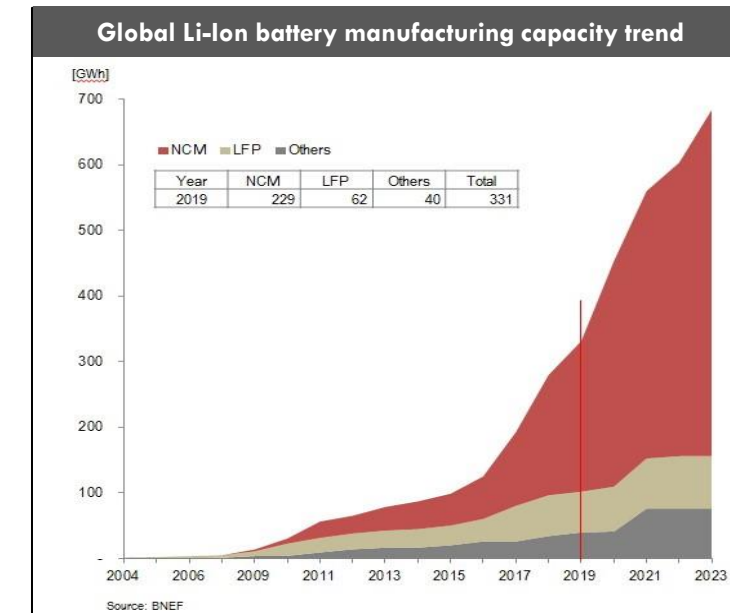
- ▶ Manganese (Mn) is the fourth most consumed metal in the world by tonnage
- ▶ Approximately 90% is used in steel with Mn alloys added to prevent corrosion, resist abrasion, and increase hardenability.
- ▶ Smelting Mn ore make a ferro or silico manganese alloys used in steel (15kg Mn/t rebar). Baseload demand from China and emergence of India
- ▶ Increasing demand for Mn in the growing EV battery market with Nickel-Cobalt-Manganese (NCM) the dominant cathode chemistry used in Li-ion batteries
- ▶ Each NCM battery contains 10 to 30% manganese in the battery that equates to 10 to 90kg depending on cathode chemistry

Global shift to Electric Vehicles

- ▶ Bloomberg (NEF) show global sales in 2020 of 3m and forecast 66m in 2040
- ▶ Driven by strict emission requirements and bans on fuel powered engines imposed by Chinese and European Governments
- ▶ Major car manufacturers such as Ford, GM, VW/Audi, Volvo and Stellantis committing to EV's in addition to market leader Tesla and others transitioning 100% to EV.
- ▶ Global EV Outlook 2021 by the International Energy Agency (IEA) - has shown a strong decade of growth. Europe and China continue to dominate production and uptake of EV



2021 steel production - 1.9Bt World, 1Bt China (source: worldsteel.org)



Portfolio Overview – 2600km² under tenure

- ▶ Exploring for “Woodie-Woodie” hydrothermal (high-grade Mn) and “Supergene Balfour” style manganese deposits (med-grade Mn/Fe)
- ▶ Leveraging of existing transport infrastructure

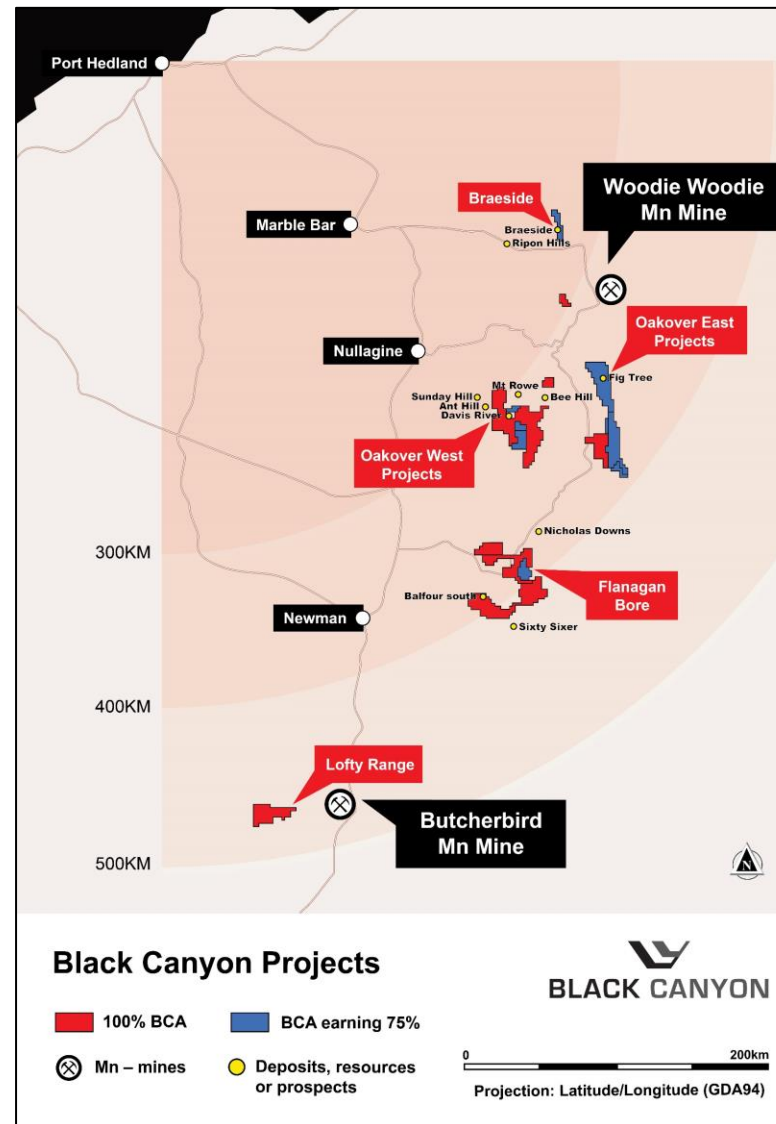
Black Canyon (100%)

- ▶ 9 tenements totalling 1815km² (granted and under application)
- ▶ Continue to evaluate opportunities with target generation based on geological criteria and proximity to infrastructure
- ▶ Large exploration footprint to become the dominant ASX listed manganese focused explorer/developer in the Pilbara

Carawine JV (51%, earning 75%)¹

- ▶ 8 granted tenements across 4 project areas covering 793km² in the east Pilbara in JV with ASX listed Carawine Resources (ASX:CWX)
- ▶ Drill ready targets leveraging off existing drill data and geophysical surveys provided by historic explorers
- ▶ Early success at Flanagan Bore with a discovery at FB3 and a large Maiden Mineral Resource

1. Refer to BCA ASX release 04/04/2022 Black Canyon earns 51% interest in the Carawine JV



Flagship Project - Flanagan Bore (Carawine JV)

Ticks the boxes – outcropping geology, grade & scale

- ▶ High quality manganese Mineral Resource from surface
- ▶ Impressive geological and manganese grade continuity
- ▶ Both positive factors for resource optimisation and potential mining scenarios

Mineral Resource Summary at LR1 and FB3 ¹

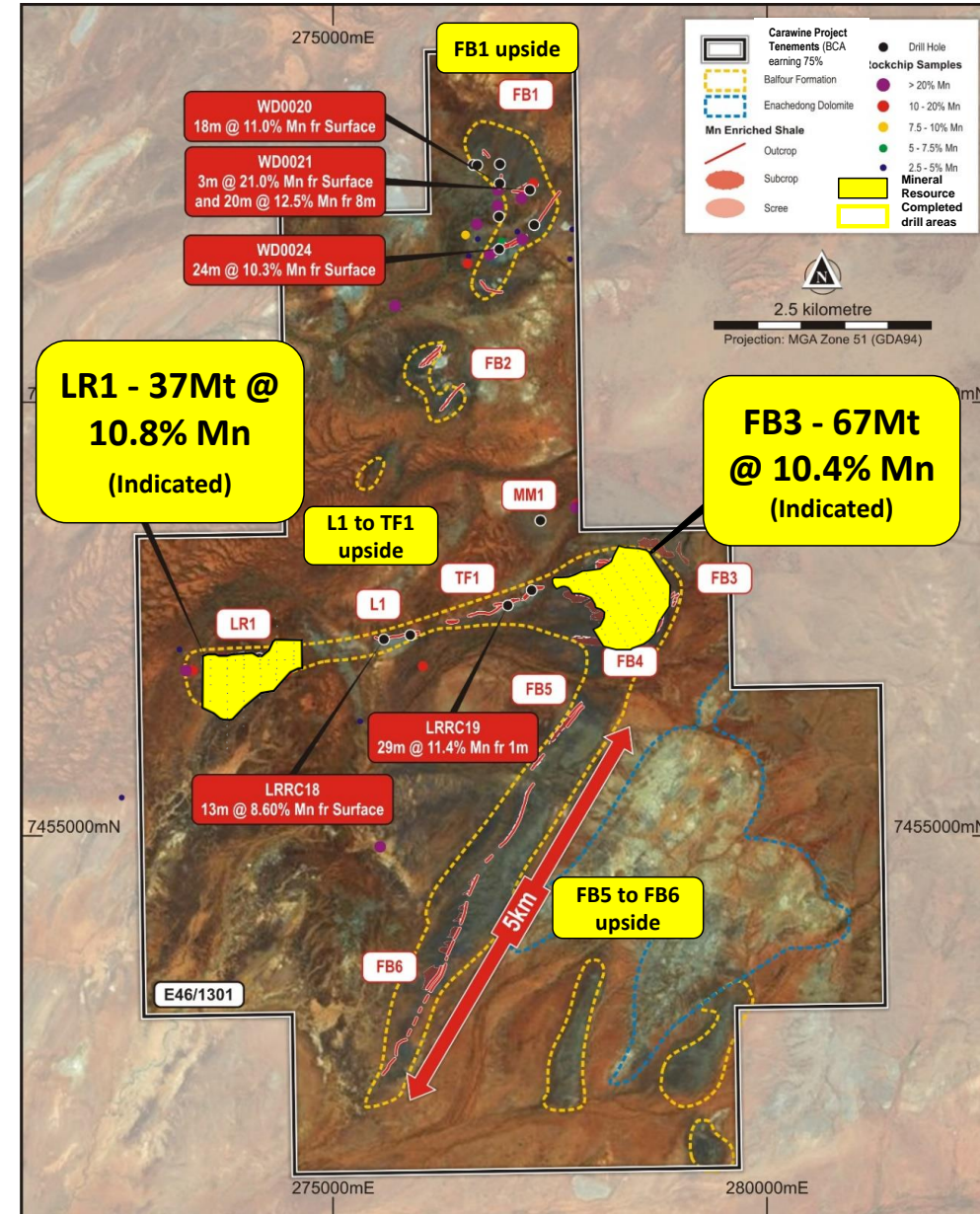
| Summary of Mineral Resources ⁽¹⁾ | | | | | | | | Global |
|---|---------------------------|---------------|-----------------|------------|-------------|------------|-------------|------------|
| Deposit | Mineral Resource Category | Material (Mt) | In Situ Mn (Mt) | BD (gcm3) | Mn (%) | Fe (%) | Si (%) | Al (%) |
| FB3 | Indicated | 67 | 7 | 2.4 | 10.4 | 10.3 | 17.6 | 4.5 |
| LR1 | Indicated | 37 | 4 | 2.4 | 10.8 | 8.9 | 18.3 | 5.0 |
| Grand Total | | 104 | 11 | 2.4 | 10.5 | 9.8 | 17.9 | 4.7 |

Notes:
(1) Mineral resources reported at a cut-off grade of 7% Mn

| Summary of Mineral Resources ⁽¹⁾ | | | | | | | | Higher-grade subset |
|---|---------------------------|---------------|-----------------|------------|-------------|-------------|-------------|---------------------|
| Deposit | Mineral Resource Category | Material (Mt) | In Situ Mn (Mt) | BD (gcm3) | Mn (%) | Fe (%) | Si (%) | Al (%) |
| FB3 | Indicated | 19 | 2 | 2.4 | 12.7 | 11.5 | 18.5 | 4.6 |
| LR1 | Indicated | 15 | 2 | 2.4 | 12.9 | 9.9 | 18.4 | 4.9 |
| Grand Total | | 33 | 4 | 2.4 | 12.8 | 10.8 | 18.5 | 4.8 |

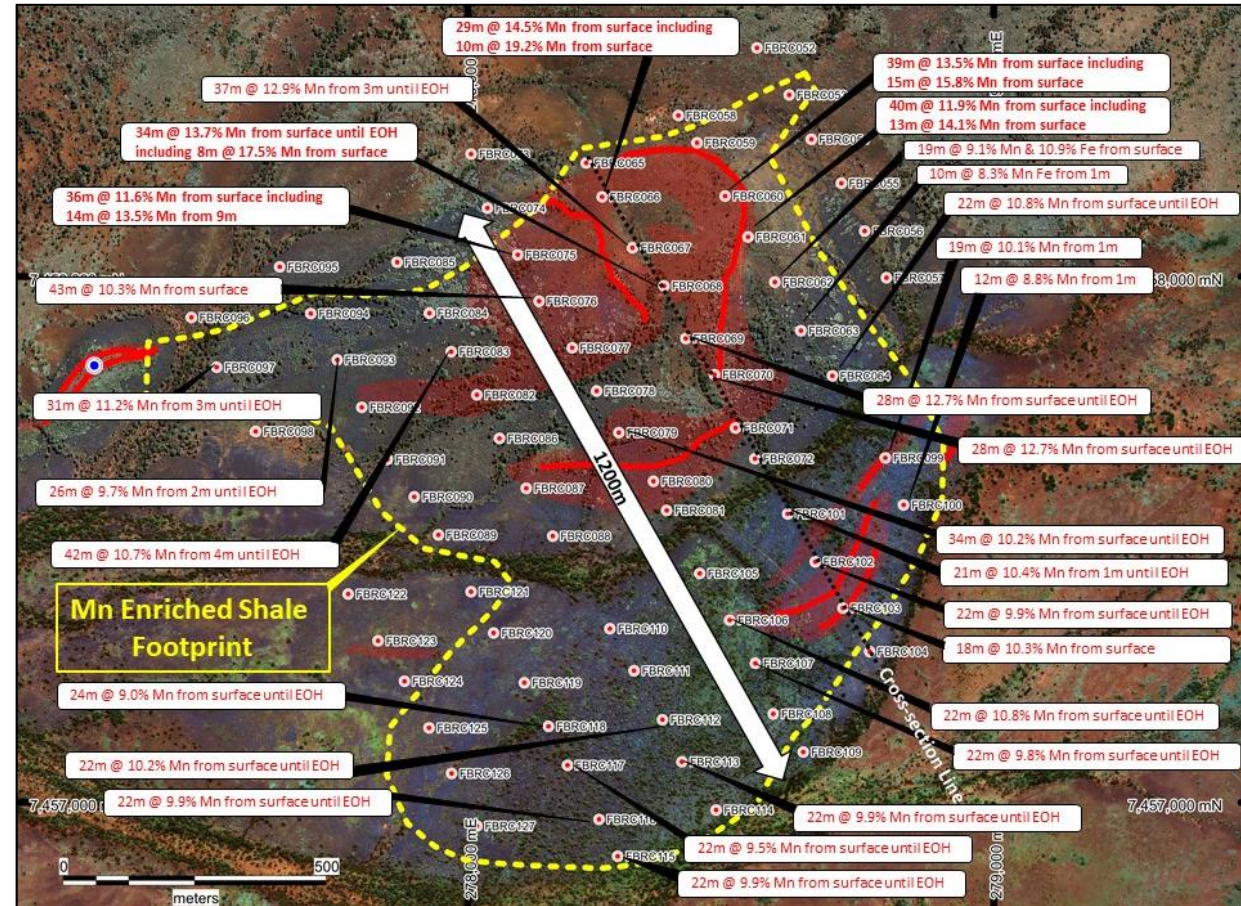
Notes:
(1) Mineral resources reported at a cut-off grade of 11% Mn

1. BCA ASX Announcement 13/04/2022 Mineral Resource Estimate at Flanagan Bore Exceeds 100 Mt



FB3 Deposit – RC drill results

- ▶ 39m @ 13.5% Mn from surface (FBRC060)
 - ▶ Including 15m @ 15.8% Mn from surface
- ▶ 40m @ 11.9% Mn from surface (FBRC061)
 - ▶ Including 13m @ 14.1% Mn from surface
- ▶ 29m @ 14.5% Mn from surface (FBRC066)
 - ▶ Including 10m @ 19.2% Mn from surface
- ▶ 34m @ 13.7% Mn from surface (FBRC068)
 - ▶ Including 8m @ 17.5% Mn from surface
- ▶ 36m @ 11.6% Mn from surface (FBRC075)
 - ▶ Including 14m @ 13.5% Mn from 9m

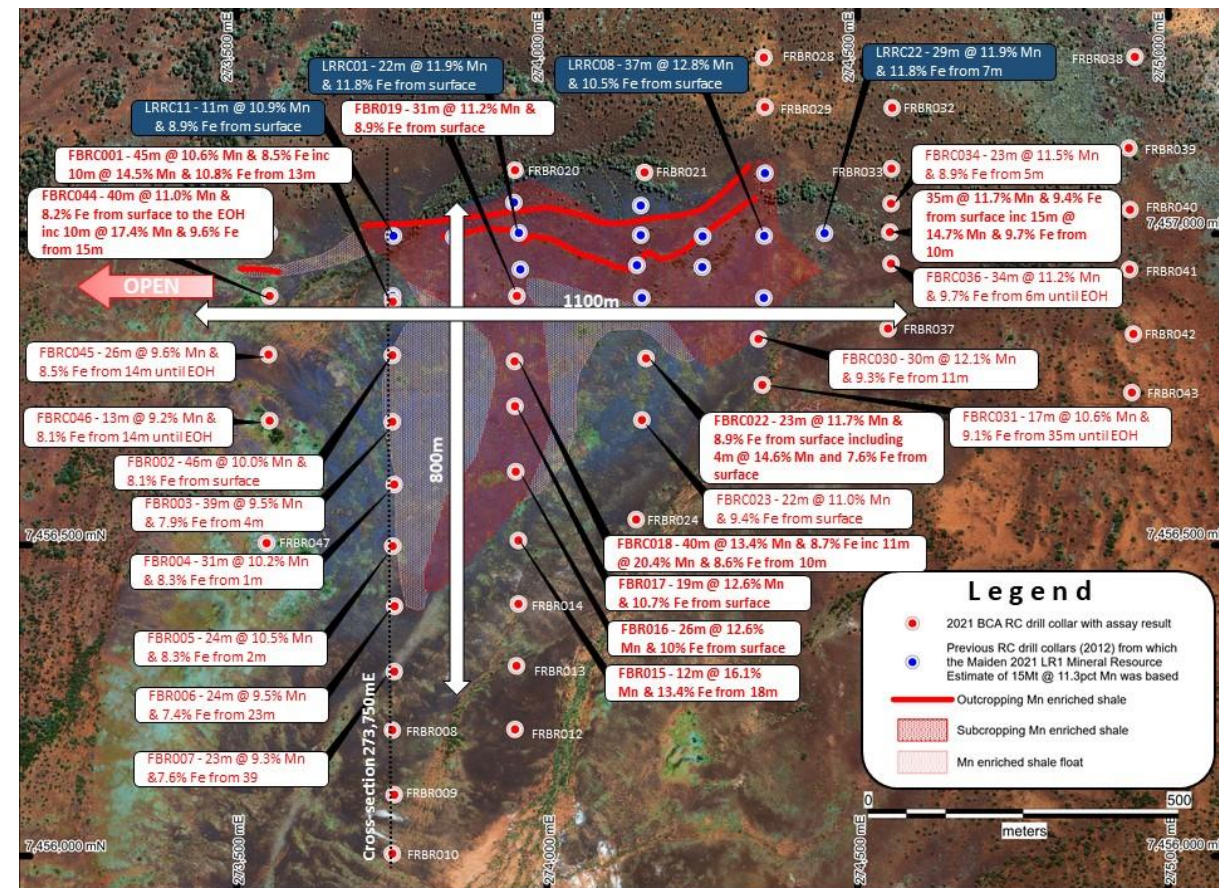


Mineralisation starts from surface with outcropping higher grade zones identified across the FB3 prospect

Flanagan Bore LR1 - 37Mt @ 10.8% Mn

LR1 Deposit – RC drill results

- ▶ 40m @ 13.4% Mn from surface (FBRC018)
 - ▶ Including 11m @ 20.4% Mn from 10m
- ▶ 47m @ 10.6% Mn from 10m (FBRC001)
 - ▶ Including 10m @ 14.5% Mn from 13m
- ▶ 35m @ 11.7% Mn from surface (FBRC035)
 - ▶ Including 15m @ 14.7% Mn from 10m
- ▶ 40m @ 11.0% Mn from surface until EOH (FBRC044)
 - ▶ Including 15m @ 14.7% Mn from 10m
- ▶ 40m @ 11.0% Mn from surface until EOH (FBRC044)
 - ▶ Including 10m @ 17.4% Mn & 9.6% Fe from 15m



The LR1 footprint is 1100m long and up to 800m wide based on mapping and drill results received to date.

Positive sighter level test work

- ▶ Scrubbing and washing achieves grade uplifts from 11.7% to 13.7% Mn to approximately 19% and 26%
- ▶ Heavy Liquid Separation (HLS) (used to simulate dense media separation (DMS)) achieved grades up to 35.5% Mn
- ▶ Ore sorting achieved grades of up to 31.3% Mn

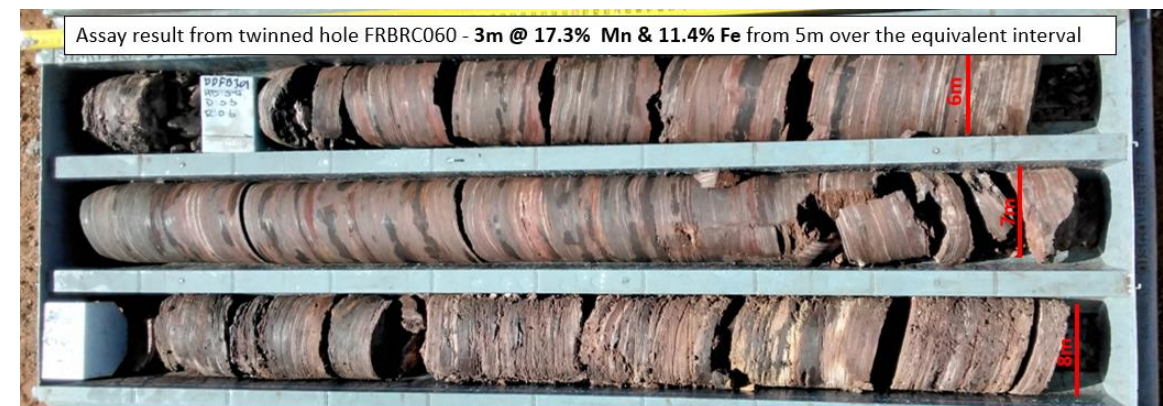
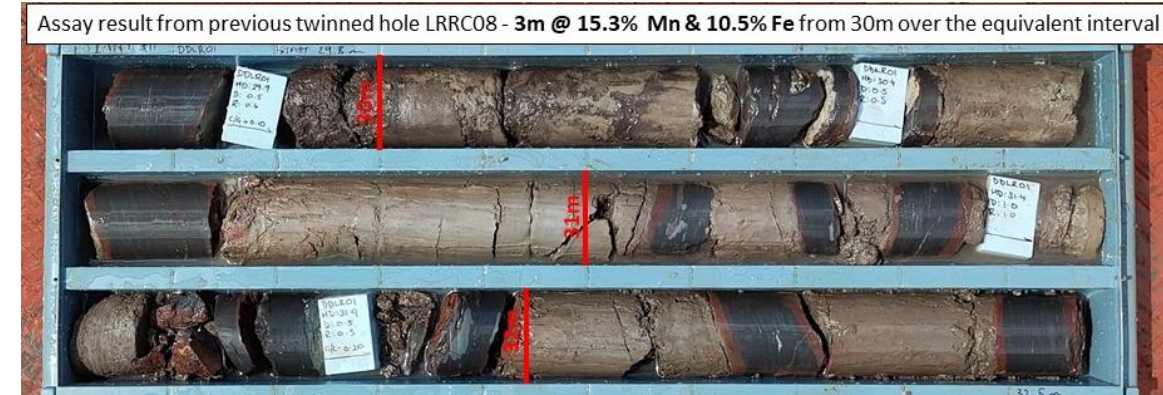
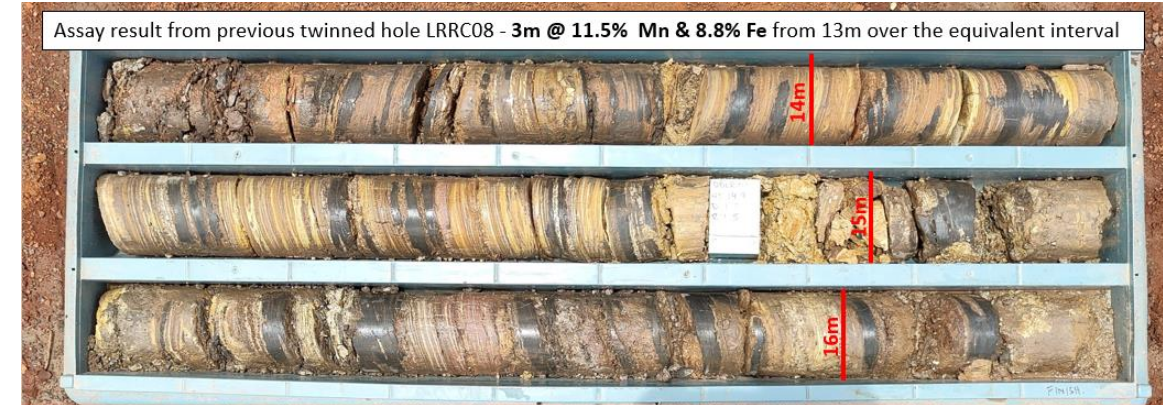
Mn concentrate product marketing

- ▶ Preliminary discussions with marketing specialists indicate manganese concentrates with key characteristics similar to those from Flanagan Bore would be suitable for silicomanganese or ferromanganese alloying as feedstocks into the steel manufacturing industry

Battery precursor studies

- ▶ Leaching test work on Flanagan Bore manganese concentrate commencing
- ▶ Overall strategy to add value through downstream processing to potentially produce high-purity manganese sulphate monohydrate for the growing electric vehicle battery market

BCA ASX Announcement 08/02/2022 Thick Manganese Intersections from Drilling at Flanagan Bore, 21/02/2022 Further Thick Manganese Intersections at Flanagan Bore and 09/06/2022 Initial metallurgical tests deliver Mn concentrate grades in excess of 30%



FLANAGAN BORE



Pilbara Location

Access to infrastructure



Growing Resources

LR1 & FB3 Mineral Resources



Making Discoveries

FB3 High-grade Discovery
FB1, FB2 & FB5 potential upside



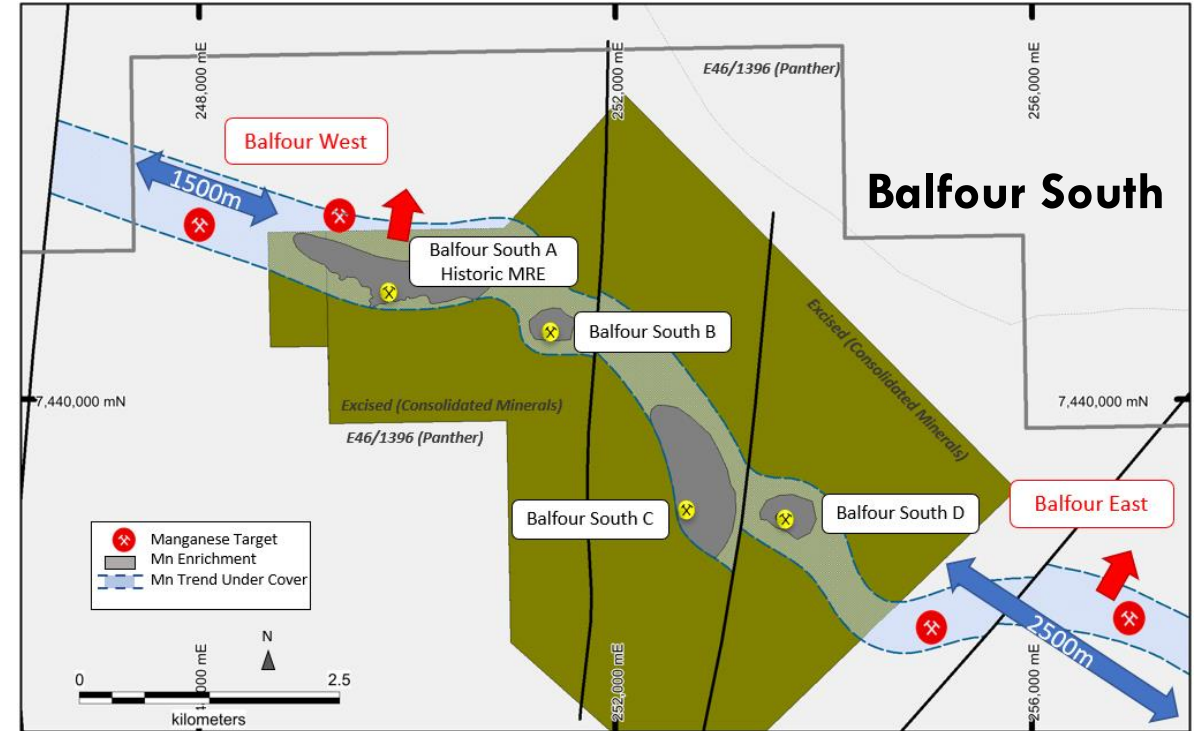
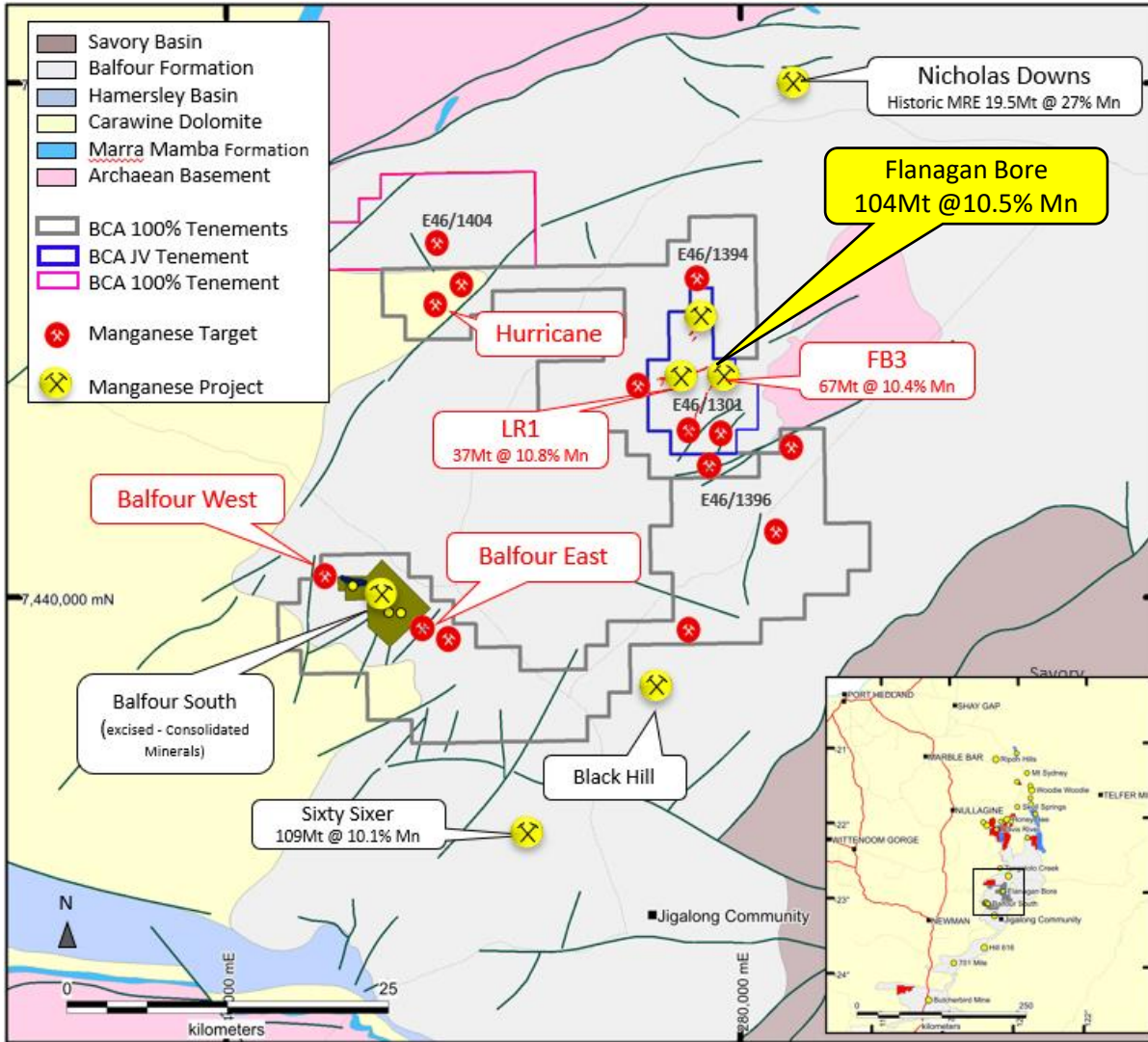
Economic Assessment

Advancing Scoping Studies
Metallurgical test work – ore sorting and dense media separation
Leaching studies



Key Consultants

Engaging with experienced teams and consultants who understand developing projects

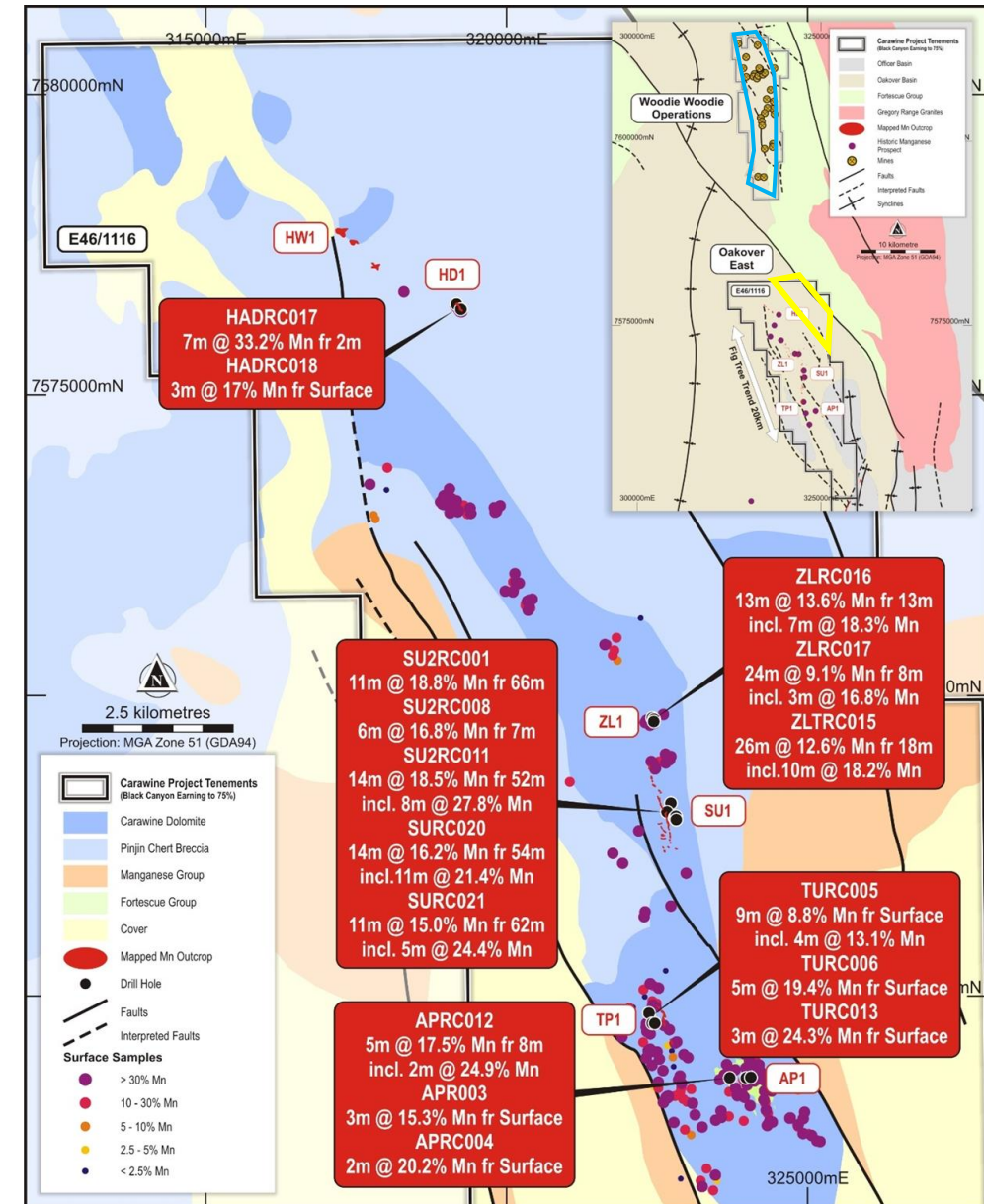
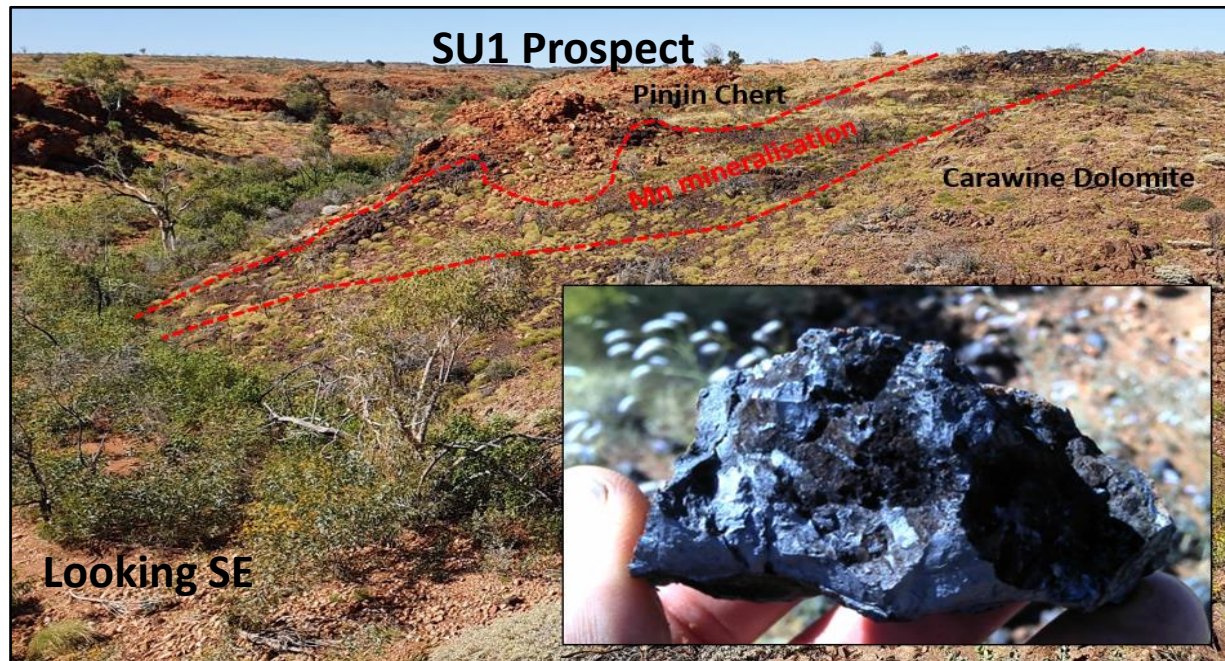


Hurricane Historic Drilling

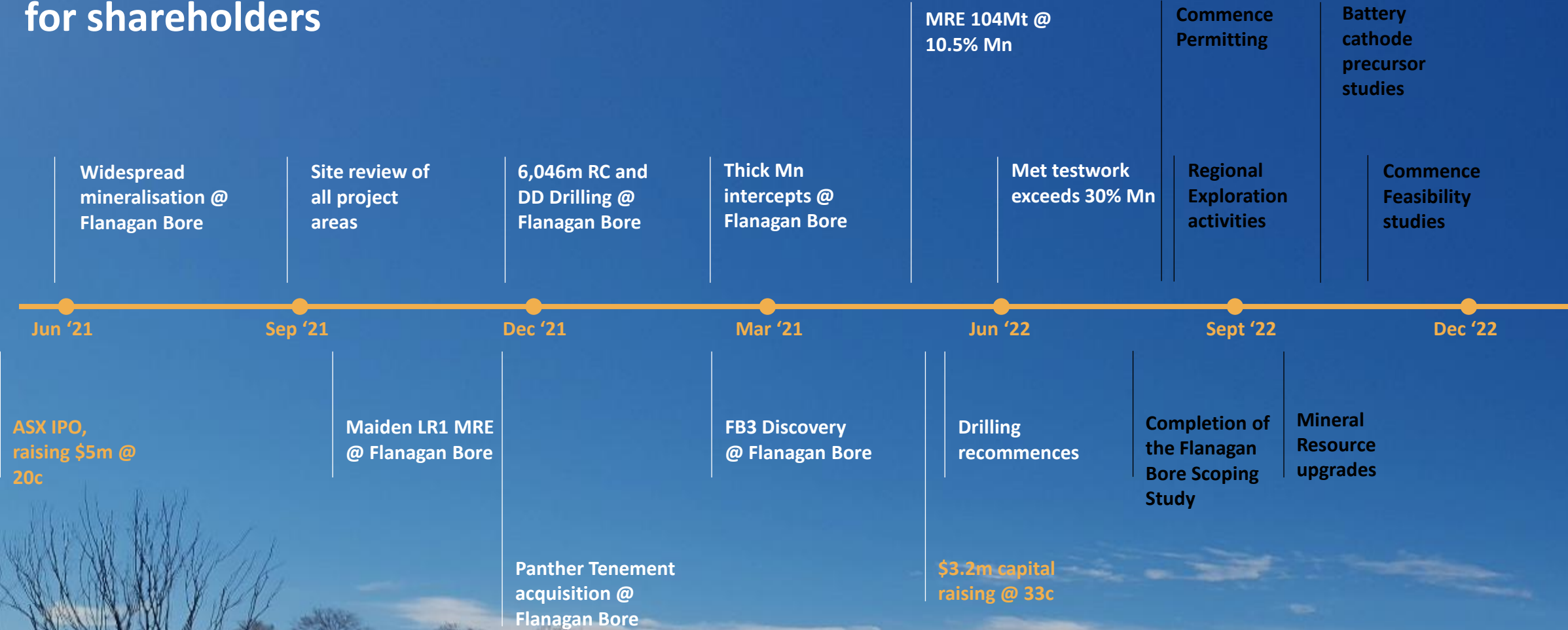
- 10m @ 21.2% Mn from 3m, Including 5m @ 31.4% Mn (WD003)
- 12m @ 16.4% Mn from 3m, Including 4m @ 29.2% Mn (WD005)
- 4m @ 23.5% Mn from 6m, Including 3m @ 27.7% Mn (WD002)
- 2m @ 25.9% Mn from 7m (WD010)

Targeting high grade hydrothermal Mn

- ▶ Previous drilling has identified north-south striking zones of ore grade Mn mineralization, located 35km south of Woodie Woodie
- ▶ Continuity of the mineralised horizon along the strike of the Pinjian Chert and Carawine Dolomite contact is identified over 20km
- ▶ Mineralisation remains untested in addition to large areas of prospective geology that have not been subjected to ground geophysical surveys and follow-up drilling along the Pinjian Chert/Carawine Dolomite contact



Black Canyon - developing assets and creating value for shareholders



Share price performance



Why invest in Black Canyon?



Commodity - manganese is essential to the steel industry and a key battery mineral, with strong growth forecast



Well-funded - with a clear strategy to add value and grow the Company through discovery, development and downstream processing



Newsflow - significant work programs continue and planned across the projects in 2022 that includes infill/extension drilling, MRE updates, heritage surveys, GAIP on selected targets and follow-up drill programs.



Delivering - Flanagan Bore Scoping study aiming for completion in Q3 to be potentially followed by detailed Feasibility and commencement of permitting process.

Contact:

Brendan Cummins

Executive Director

E: brendan.cummins@blackcanyon.com.au

T: 0400 799 756

