

Investor Presentation

Exploring for critical minerals in the Northern Territory and Western Australia

October 2022





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Competent Person Statement

Mr Bill Oliver, a Director of the Company, is a Member of The Australasian Institute of Geoscientists and the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2012 Edition of the JORC 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Oliver consents to the inclusion in the report of the information in the form and context in which it appears. The Exploration Results are based on standard industry practices for drilling, logging, sampling, assay methods including quality assurance and quality control measures as detailed in the ASX Announcements stated in the text and in the Independent Geologist's Report contained within the Prospectus released to the ASX on 11th October 2022.

Following a successful IPO Bubalus is poised to capitalise on the growing global demand for critical minerals sourced from Tier 1 jurisdictions.

- Assembled a highly prospective portfolio of Rare Earths, Manganese, Zinc, and Cobalt projects located in Tier 1 jurisdictions NT and WA.
- ➤ NT host to some of **Australia's most significant Rare Earth Elements** resources, Arafura Resources (Nolans Bore) and Northern Minerals (Browns Range).
- > Bubalus Resources' first mover advantage, securing analogous and favourable geological settings.
- ➤ Undertake **systematic exploration**, applying **modern geophysical** and **geochemical techniques** to exploit anomalous historical REE, Manganese and base metals results.
- ➤ Tight capital structure and low enterprise value presenting compelling leverage to exploration success.
- Demand from renewable energy sources combined with geopolitical tensions have placed heightened importance on strategically located Rare Earths deposits.



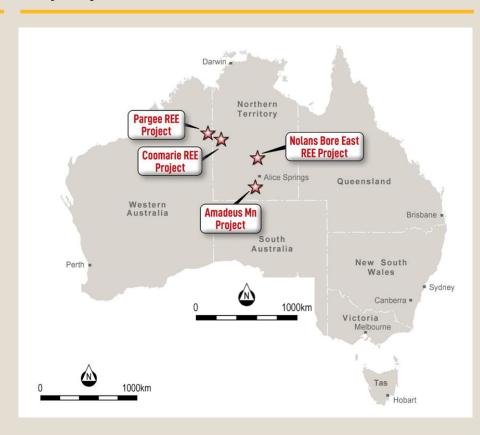


Significant tenement package across highly prospective, underexplored mining regions across Australia.

Project Highlights

- Significant landholding of 1,528km² in the Northern Territory which is underexplored for it's rare earth and lithium potential covering two major projects at the Coomarie Project and Nolans East Project.
- First mover advantage covering large areas of prospective geology analogous to major rare earth deposits Brown's Range (ASX.NTU ~ AUD \$320 million market capitalisation) and Nolan's Bore (ASX.ARU ~AUD \$300 million market capitalisation).
- > 5,435km² prospective for manganese at the Amadeus Project 125km south of Alice Springs.
- Underexplored provinces, with opportunity to apply modern and systematic exploration techniques to deliver new discoveries.

Key Projects Location







Bubalus has been established with a strong Board and management team with the skills and experience required to create value for shareholders.

Capital Structure

Capital Structure	
ASX Code	ASX:BUS
Share price	\$0.23
Total shares on issue	33,661,750
Total options on issue (subject to escrow period)	12,561,750
Market Capitalisation (undiluted)	\$7.74m
Cash after IPO costs	\$4.60m
Enterprise value (EV) upon listing	\$3.14m
Top 20 shareholders	51.75%
Escrowed securities	6,615,575

Board and Management



Alec Pismiris - Executive Chairman

Mr Pismiris has over 30 years of experience in the securities, finance and mining industries. Mr Pismiris completed a Bachelor of Commerce degree at UWA, is a member of the Australian Institute of Company Directors and a fellow of The Governance Institute of Australia. Other current directorships include Agrimin Limited, Sunshine Gold Limited, The Market Herald Limited and Pacton Gold Inc (TSX-V).



Bill Oliver - Non Executive Director

Mr Oliver is a geologist with over 20 years of experience in the resources industry. Mr Oliver has served as director of a number of ASX listed companies and is familiar with the requirements of the ASX Listing Rules and the JORC Code. He's a member of the AusIMM and the Australian Institute of Geoscientists and holds an honours degree in Geology from UWA, as well as a post-graduate diploma in finance and investment from FINSIA.



Scott Deakin - Non Executive Director

Mr Deakin has over 12 years experience working in the exploration and resources sector. He's a director of Mining People International, specialising in technical and executive mining recruitment and HR consulting. Mr Deakin holds a commerce degree from Curtin University, a Graduate Diploma in Mineral Exploration and Geoscience from Curtin University's WASM and is a Graduate of the Australian Institute of Company Directors.



Melanie Ross - CFO and Company Secretary

Ms. Ross is an accounting and corporate governance professional with over 20 years' experience in financial accounting and analysis, audit, business and corporate advisory in Australia.



Inyati Capital - Corporate Advisors

Demonstrable track record of strategic corporate advisory and value creation to companies such as Vulcan Energy (VUL), Province Resources (PRL) and Galileo Mining (GAL).





Exploring for another Browns Range – "Own the Dome" Strategy

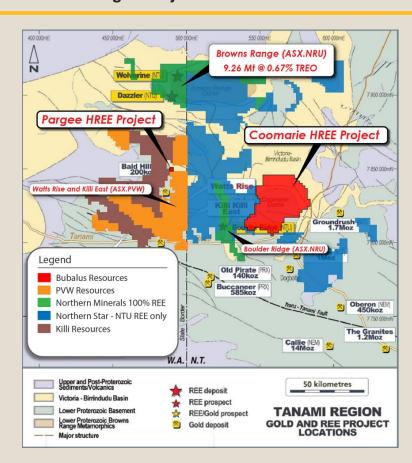
Coomarie analogous to NTU Browns Range

- The Coomarie Dome project presents as a geological analogue to Browns Dome, host to NTU's Browns Range REE deposit.
- The Pargee project is prospective for heavy rare earths and located adjacent to PWV Resources, 30kms from their Watts Rise HREE discovery.



Source: Northern Minerals ASX investor presentation 9/06/22

Coomarie & Pargee Project Location

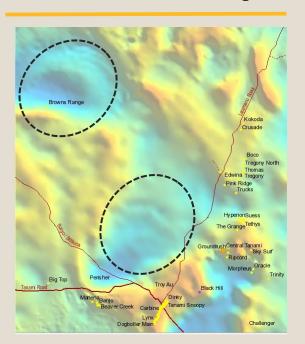




Large granitoid intrusive known as Coomarie Dome presents an opportunity to pursue the same "own the dome" strategy as Northern Minerals – Browns Range Project.

- Northern Minerals (NTU) Browns Range mineralisation hosted on margins of granite dome intrusive where the unconformity between Gardiner Sandstone and Browns Range Metamorphics exist.
- Whole rock grab samples highlight anomalous NdPr Values on periphery of Coomarie Dome intrusive complex, without any follow up exploration having been undertaken.

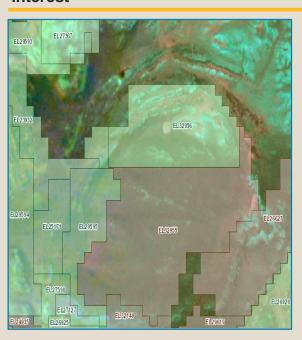
Similar structural dome setting



Radiometric signature similarities

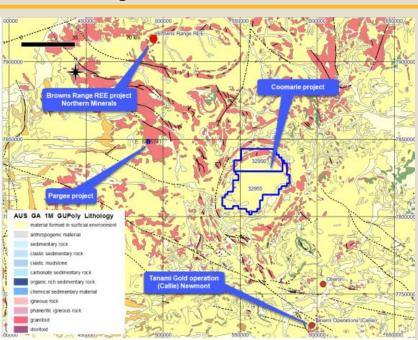


EL32956 straddling domal margin of interest



- Exploration upside abundant, with limited systematic or modern exploration techniques previously applied.
- Sporadic geochemical soil sampling was constrained to the southern flank of the Coomarie Dome, with four anomalous NdPr grab samples on the north-eastern flank never followed up.
- Work programs will concentrate on advancing our understanding of the anomalous NdPr grab samples and applying a methodical exploration approach, to vector in on potential drill targets and discoveries.

Pargee and Coomarie projects proximal to major resources in region



Surface grab samples and geochemistry highlighting anomalous NdPr samples never drill tested



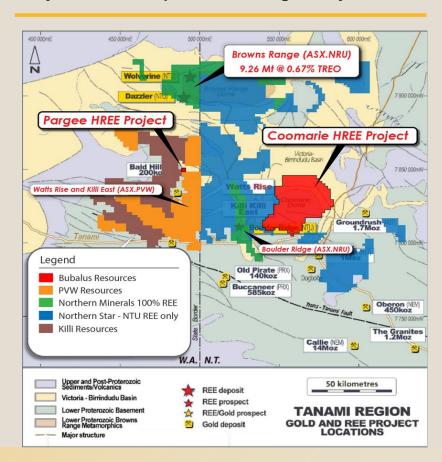


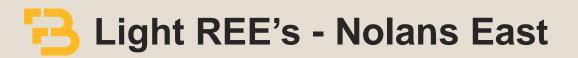
1.8kms of Killi Killi unconformity striking through Pargee Project, host of ASX: PVW's recent REE discovery.

Highly prospective geological setting to host unconformity-related REE deposits

- The contact between the Pargee Sandstone and the Killi Killi Formation is a regional-scale unconformity considered prospective for hydrothermal unconformity-related REE mineralisation.
- This important geological unconformity has been mapped by the GSWA to extend for 1.8km through the Pargee project.
- Exploration programs will target faults and structures that transect this regional unconformity that may have potentially acted as conduits for mineralised fluids.

Major discoveries proximal to Pargee Project

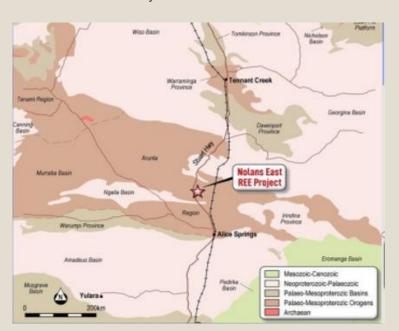




The Nolans East Project is prospective for light rare earths and is located only 15kms east of Arafura's (ASX.ARU) 56Mt NPV \$1.011Bn Light Rare Earth deposit

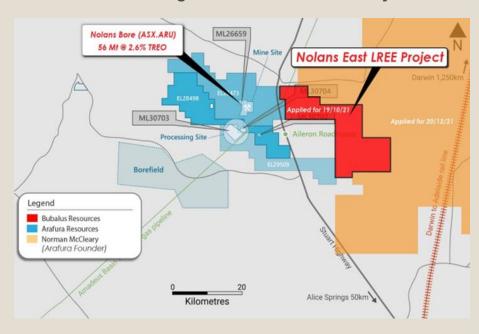
Excellent infrastructure and project access

- ➤ Project covers 380km² of the Arunta Province, analogous to Nolan's Bore LREE deposit.
- Excellent project access along the Stuart Highway in the Northern Territory.



First mover advantage adjacent to Nolan's Bore

➤ The Aileron Province is seeing a renewed focus of REE exploration, with Arafura Resources progressing towards construction and development of the Nolans Bore mine and recent pegging rush by explorers, including Arafura's founding director Norman McCleary.



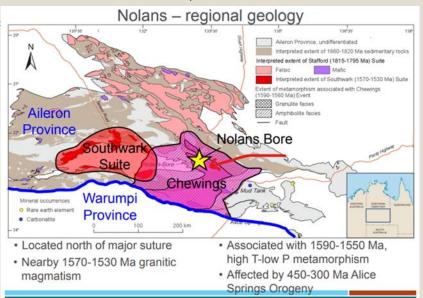




Right structural and geological "plumbing" provides key conduit to the formation of large scale REE deposits

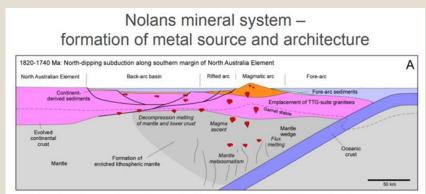
Fertile geochronology and stratigraphic settings

On a regional scale, within a 250km radius, the Nolans Bore deposit and other REE occurrences are spatially and structurally associated with a series of tin and tantalum pegmatites, and REE-bearing carbonatite/alkaline complexes.



Structural faults into the unconformity are prime hosts of mineralisation

Geological processes leading to formation of Nolans Bore began with north-dipping subduction along the south margin of the Aileron Province resulting in alkaline lowdegree partial melts.



- Nolans Bore located ~150 km north of southern margin of Aileron Province
- This margin interpreted as site of north dipping subduction from 1820 to 1740 Ma (CAT granite suite (Zhao and McCuloch, 1995); VHMS deposits)
- Convergence and associated subduction enriched mantle and produced back-arc basin → metal source and architecture used during ~1550-1520 Ma Nolans event (and later Teapot (1130 Ma) and Mud Tank (730 Ma) alkaline events)
- Cratonised during Strangway (1740-1690 Ma) and Leibig (1640-1635 Ma) Orogenies

Source: Geoscience Australia, Nolans regional geology



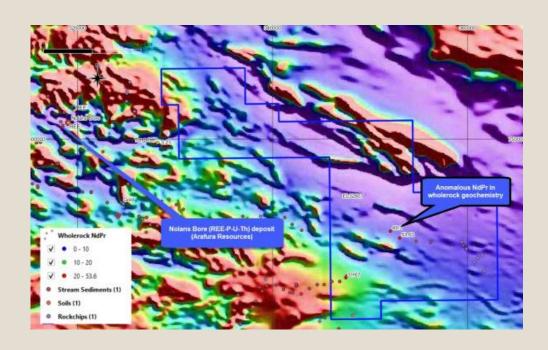
Encouraging geochemical and geophysical correlations to Nolans Bore REE deposit

Prospective geological architecture acts as prime host unconformity REE deposits

➤ The project area is underexplored for it's hydrothermal stockwork vein-style Light Rare Earths (LREEs) potential, in particular minerals neodymium, and praseodymium associated with these types of rare earths-phosphate-uranium-thorium (REE-P-U-Th) deposits such as Nolans Bore.

➤ Follow up exploration will focus on identifying radiometric targets with signatures similar to Nolans Bore.

Surface geochemistry over TMI Magnetics displays strong correlation to Nolans Bore





Rare Earths Supply Chain Dynamics

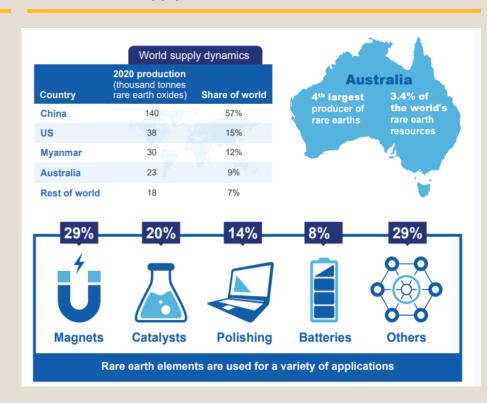
ASX: BUS

Geopolitical tensions have highlighted critical need to secure supply ex China

Heightened demand and tailwinds for REE's

- The priority of securing a rare earths supply chain outside of China has escalated for both the United States and Australian governments.
- Executive Orders (EO) from new US President Joe Biden enforce climate change measures including moving to zero emission vehicles.
- > \$700b US Energy and Climate bill recently passed, set to underpin demand.
- ➤ Former President Donald Trump's EO singled out the US's undue reliance on China for multiple critical minerals.
- ➤ The US currently imports 80 per cent of its rare earth elements directly from China.
- ➤ Importantly, the EO supports Policy to build resilient critical mineral supply chains in the US and with strong allies.

Rare Earths Supply and Uses







Light and Heavy REE Pricing Forecast

Demand placing upward pressure on sustained pricing forecasts, with global push for carbon neutrality underpinning demand

Light Rare Earths Forecast Pricing

Heavy Rare Earths Forecast Pricing



Source: Adams Intelligence September 2021

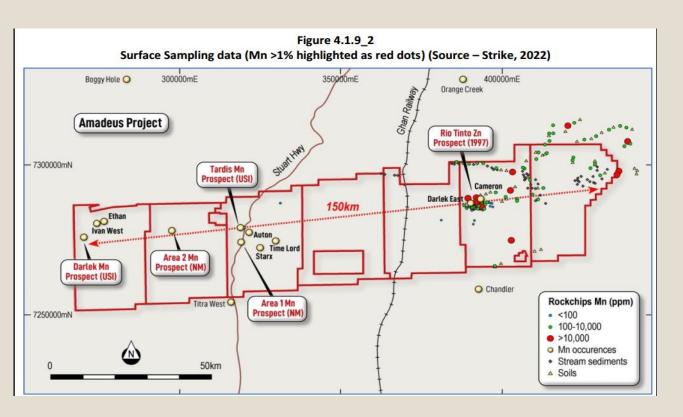




Manganese - Amadeus Project

Commanding land package with 150kms of strike containing outcropping high grade manganese

Historic work identified 11 manganese occurrences, along with cobalt and Ni-Zn-Cu also identified



- Substantial land package 125km south of Alice Springs along the Stuart Highway.
- Multiple access roads across tenements as well as airstrips and rail.
- Focus on manganese and, in particular, high purity manganese for the battery metals industry.





Manganese - Amadeus Project

Walk-up drill targets provides initial focus with reprocessing of historical data anticipated to yield further targets

Immediate on ground activity

- Re-visit all previous mineral occurrences in the Amadeus project with the focus of gathering new data and prioritising each occurrence for future exploration.
- Occurrences include Ivan, Ivan West, Ethan, Cameron, Dalek, Dalek West, Dalek East, Time Lord, The Doctor, Auton and Strax.
- Complete drilling program at Dalek.
- > Drill IP anomaly at Ethan.
- Investigate a potential hard rock potash project at Tardis.
- Investigate a potential bauxite project at Auton.
- Geophysics over mineral occurrences if drilling at Dalek and Ethan are successful.

43.3% Mn outcrop at Cameron Prospect



Abundance of outcropping Mn at Darlek Prospect

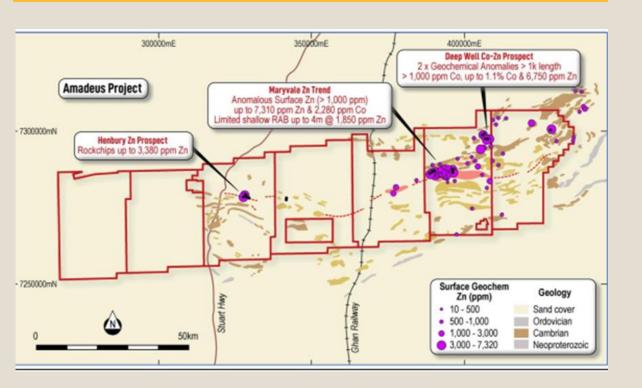




Amadeus Project – Zinc, Nickel & Cobalt

Kalahari Copper Belt in the Northern Territory?

Rio Tinto Geochemisty sampling and RAB Drilling (1997)



Chance to apply modern geophysics

- ➤ Rio Tinto last explored the eastern portion in 1997, returning Cobalt grades up to 1.1% and 1,850ppm Zn in RAB Drilling.
- Competing allocation of major's exploration capital presents an opportunity?
- Limited follow up work conducted since 1997, with no modern geophysics applied.
- Region densely covered by sediments, opportunity to apply modern geophysics to unlock discoveries.



Manganese Market Dynamics

Strong battery cathode end user demand with low substitution risk

148% price increase in 2021

- Manganese rich batteries emerging rapidly with key announcements from Volkswagen, Tesla, Stellantis, Renault and BASF.
- ➤ Low substitution risk, nickel-manganese-cobalt (NCM) cathode chemistry expected to dominate EV battery market (~52% today and forecast to grow).
- Emerging use in LFMP, with CATL looking to mass produce lithium manganese iron phosphate (LMFP) batteries as competitor to NCM.
- ➤ New manganese –rich cathode formulations expected to reduce costs, with good range, power, safety and charging performance.

Manganese use in EV batteries with low substitution risk







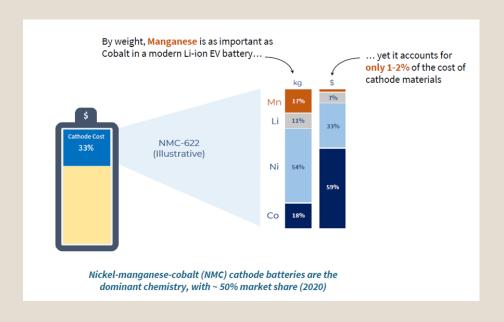


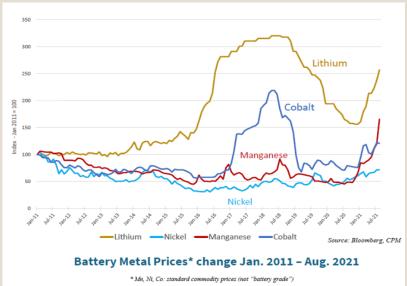
Manganese Market Dynamics

Strong battery cathode end user demand with low substitution risk

Manganese's role in cathode chemistry

Manganese price change









Contact us

Reach out if you have any questions or clarifications

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