ASX ANNOUNCEMENT

NEW WORLD METALS CONFERENCE PRESENTATION

9 September 2021



Arafura Resources Limited (ASX:ARU) ("**Arafura**" or the "**Company**") is pleased to attach a copy of its presentation delivered by Managing Director, Mr Gavin Locker, at the New World Metals Conference today held in Perth, Western Australia. Mr Lockyer will present the Nolans Project on the topic "Beyond the Quarry: Extracting More Value from the Energy Transition".

The conference features resource Companies dealing in minerals associated with technology, battery storage and emission free power transmission, including Rare Earths. With the world in transition, the event highlights some of the leading Companies who are making an effort to sustain our environment for future generations.

-ENDS-

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"Our goal is to be a trusted global leader and supplier of choice for sustainably mined and processed rare earth products, helping our customers deliver clean and efficient technologies. We are committed to delivering positive intergenerational economic, environmental and social benefits to our stakeholders."







Nolans Project

New World Metals Conference

9 September 2021









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Mineral Resources and Ore Reserves

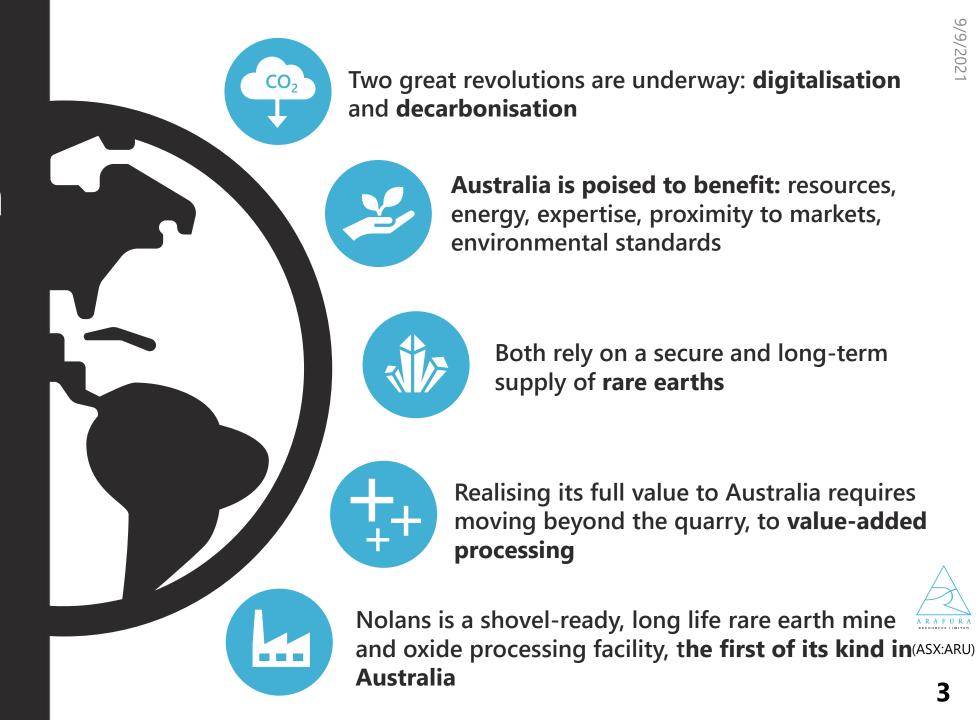
The information in this presentation that relates to Mineral Resources is extracted from the Company's ASX announcement dated 7 June 2017 (Detailed Resource Assessment Completed) and was completed in accordance with the guidelines of the JORC Code (2012). The information in this presentation that relates to Ore Reserves is extracted from the Company's ASX announcement dated 16 March 2020 (Major Increase in Mine Life for the Nolans Project) and was completed in accordance with the guidelines of the JORC Code (2012). Arafura Resources confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the original market announcements continue to apply and have not materially changed. Arafura Resources confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

Production Targets and Forecast Financial Information

The information in this presentation that relates to production targets and financial information is extracted from the Company's ASX announcement dated 11 May 2021 (Nolans Project Update). The production target is based on 12% Proved Reserves, 62% Probable Reserves and 26% inferred resources as reported in the Company's ASX announcement dated 11 May 2021. There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resources or that the production target itself will be realised. Arafura confirms that all material assumptions underpinning the production target and forecast financial information derived from the production target set out in the Company's ASX announcement dated 11 May 2021 (including any assumptions referred to in the Company's ASX announcement dated 11 May 2021 that were used from the DFS as set out in the Company's ASX announcement dated 7 February 2019 (Nolans Project Definitive Feasibility Study) or from the Updated Mining Study as set out in the Company's ASX announcement dated 16 March 2020 (Major Increase in Mine Life for the Nolans Project)), continue to apply and have not materially changed.



A World in Transition

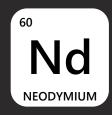


Rare Earths

Rare Earths are essential to building a clean energy future. The transformation of the global economy relies on a secure and long-term supply



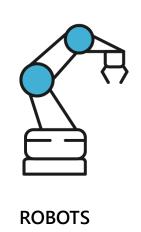
The Nolans Project
contains all the Rare
Earths but is particularly
enriched in the 'Magnet
Feed' Rare Earths NdPr





The fastest growing market for NdPr is in NdFeB Magnets. They are one of the reasons why everyday items have become smaller, lighter, mobile, more efficient and more affordable.













PHONES & TABLETS



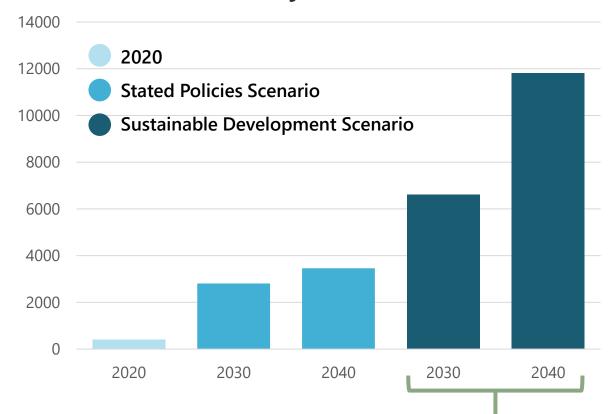
Rare Earths

A Vital Cog in the Electric Vehicle Revolution

- EV market growth is exponential: 10 to40 times in the next 20 years
- ▼ This will require 6-15 times more rare earth elements
- Most EVs need about 1kg of rare earths for their motor magnets
- ✓ Just 0.05% of the vehicle cost: but it can't run without it
- The current semiconductor shortage highlights how a tiny cog in the supply chain can disrupt the global market

Total mineral demand from new EV sales by scenario

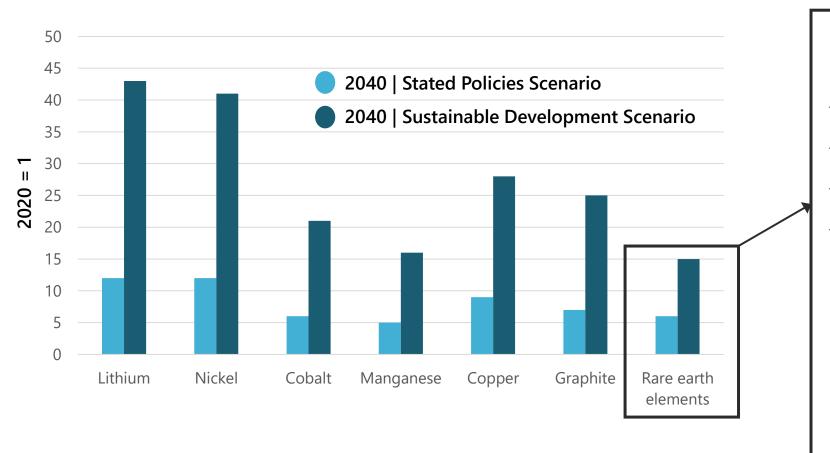
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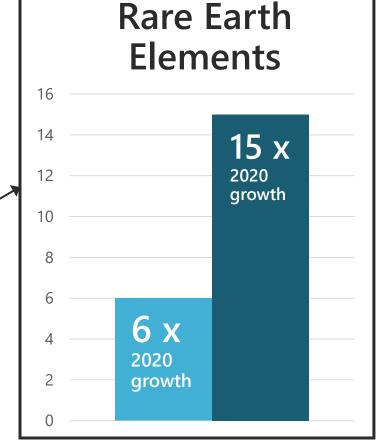


Sustainable Development Scenario is where the Paris Agreement goals on climate change are met



Mineral demand growth from new EV sales by scenario, 2040 compared to 2020





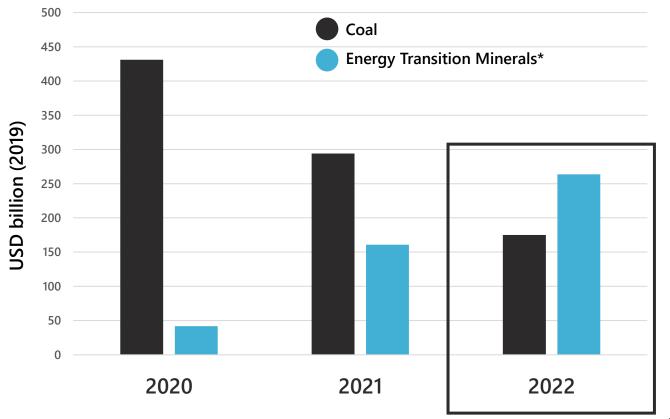


The Sleeping Giant

- Critical minerals are the future of Australian mining
- Will surpass coal as revenue generator in Energy Transition world
- However, much lower volume and higher value, posing different challenges for our prosperity
- ✓ To get the same multiplier job benefits for Australia as traditional mining, we need to do more of the processing and value adding here in Australia: not just dig them up...

Changing fortunes: Coal vs energy Transition minerals

Revenue from production of coal and selected energy transition minerals in the Sustainable Development Scenario (SDS)





Source: IEA, Revenue from production of coal and selected energy transition minerals in the Sustainable Development Scenario, 2020-2040

^{*}Includes Rare Earth Elements, Copper, Lithium, Nickel, Cobalt, Graphite, Manganese & Silicon.



Nolans Project Overview



Key Facts



Advanced manufacturing onsite

Ore to oxide at Single Site –First of its kind in Australia



Nolans aims to supply

5-10% of global demand

for NdPr oxide



Nolans is a shovel-ready world class NdPr project



NdPr is the key input for high performance NdFeB permanent magnets



NdPr is central to many clean energy applications including EVs and wind turbines



Arafura is aiming to be a trusted global leader for sustainably mined and processed rare earth products

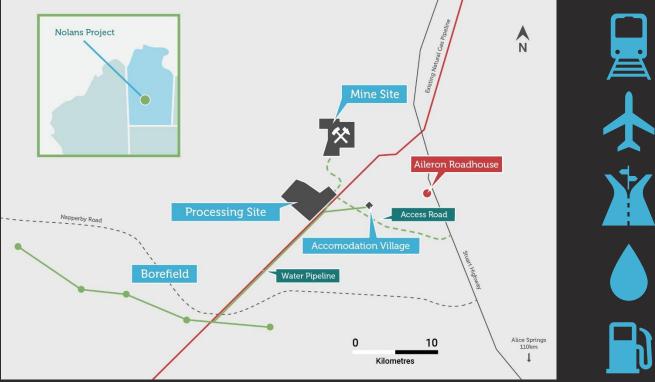


Production is aligned with forecast supply shortage

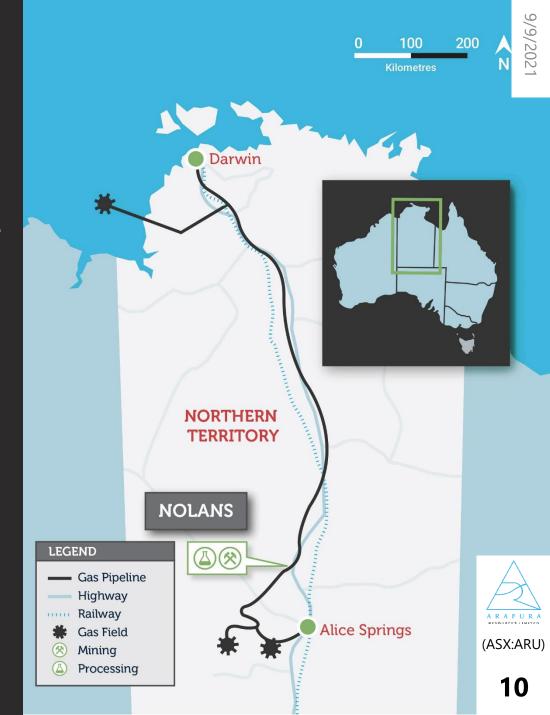


Close to existing key infrastructure

- Stuart Highway 10 km east
- Water supply 25km southwest
- Alice Springs railyard, airport and other services 135km south
- Amadeus natural gas pipelineadjacent to project site
- Tailings and process wastes at site







Nolans NdPr Shovel Ready



Regulatory

- Federal & NT Environmental Approvals secured
- Government and Minister support for senior debt facility



Security of Tenure & Social License to Operate

- Native Title Agreement
- Mineral License Granted
- Federal Major Project Status
- Indigenous Engagement Strategy



Technical

- DFS and Project Update complete
- Extensive piloting of ore to oxides flowsheet
- Appointment of KBR & Wave to in-house team
- Front End Engineering & Design commenced



Commercial

- Customer verification of oxide products
- Australian Government provide conditional letters of support for \$300M in debt
- \$45.5M Successful capital raising completed to begin FEED
- Offtake engagement (advanced discussions underway)
- Project funding (commenced senior debt process)



Shovel Ready for Rising Rare Earth Demand Nolans Key Development Milestones*

*Milestone targets are indicative and subject to change and are contingent upon funding, offtake activities and general market conditions

1. FID and First Production are both subject to outcomes with offtake and financing.

2. Conditional letters of support are non-binding and conditional upon internal credit approval, negotiation of lender agreements and further

due diligence enquiries (among other conditions).



NAIF & EFA provide conditional letters of support for \$300M in debt²



Cap raise complete & FEED commenced in

2H 2021



Conclude
agreements with
offtakers and Export
Credit Agencies



Targeting Final Investment Decision (FID) by 2H 2022¹



Targeting first production in late 2024¹

Ore to Oxide at Single Site

Nolans is the **only** NdPr focused project in Australia that plans to **mine and process ore to oxide at a single site.**



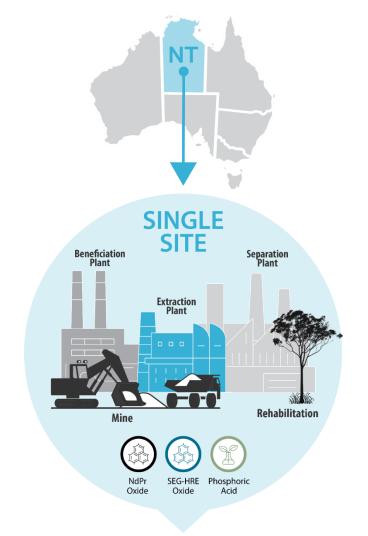
Nolans aims to be a **non-Chinese supplier of choice for sustainably mined NdPr** oxide.



All environmental approvals have been secured and waste management & site rehabilitation fully costed.



Arafura's **single site processing** provides traceable product and waste management certainty which is **aligned with customers' ESG expectations.**



FOR EXPORT To International Customers





ESG - Current activities and initiatives

"Arafura's ESG commitment is to be a trusted global leader and supplier of choice for sustainably mined and processed rare earth products, helping our customers deliver clean and efficient technologies. We are committed to delivering positive intergenerational economic, environmental and social benefits to our stakeholders."



Prioritise GHG Emissions and Water Management

- Water reduction strategy
- GHG Emissions Audit and reduction study
- Renewable energy Solar power initiative, Commitment to Net Zero GHG



Finalise Update of Sustainability Report

- Signatory of the UN Global Compact
- Comprehensive report that satisfies requirements of global ESG ratings agencies and reporting standards
- Due 2H 2021



Pending Member in IRMA

Arafura will complete the IRMA Ready assessment standard as soon as it is launched



Traceability – Blockchain Technology

- Aligned with customers' ESG expectations
- Will allow tracing of Nolans sustainably produced products through entire supply chain to customers



Innovation and Technology

- Downstream value add opportunities
- Ongoing R&D, low carbon metallisation process
- Options for hydrogen or other energy storage solutions



EUROPE

JAPAN

CHINA

Offtake Strategy

Targeting NdPr users not aligned with *Made in China* 2025 strategy

- Progressing Offtake agreements with customers seeking supply security with a sustainable NdPr producer
- Prices rising materially as supply tightens
- Arafura is in discussions with 9
 parties for over 120% of Planned
 Production with a view to secure 85%
 as binding offtake
- Key markets for NdPr are E-Motors, Wind Turbines



Australia fuelling

the clean energy

revolution



Nolans aims to supply 5-10% of global

demand

for NdPr oxide





Critical Minerals
Supply – a
Global Issue

NdPr Market Opportunity

DEMAND



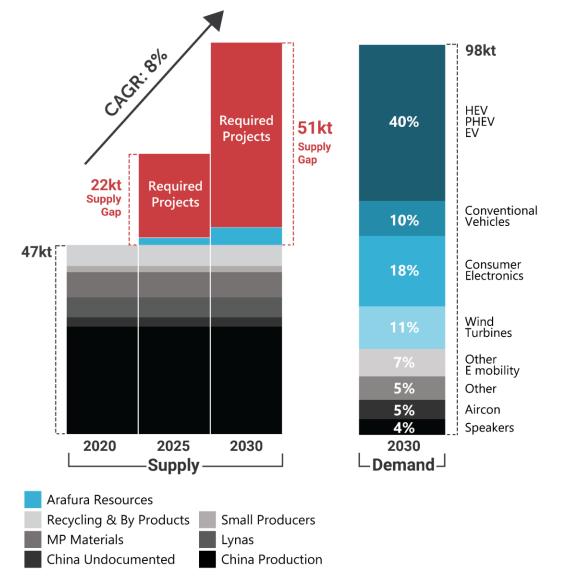
- Automotive sector is forecast to consume nearly 50% of NdFeB supply
- Supply gap is growing at a cumulative annual growth rate (CAGR) of 8%
- ✓ 2030 forecast assumes ~34 million EVs
- 2021 demand is forecast to increase by14%

SUPPLY



- Market analysts forecast a supply gap that represents 109% of global supply today and is in excess of 11 Nolans Projects
- NdFeB magnets will move to the best value in use
- The emerging supply gap has extra significance for companies not aligned with the China 2025 strategy
- China's import of rare earth metal ores jumped 84.1% in June 2021.

NdPr Supply & Demand



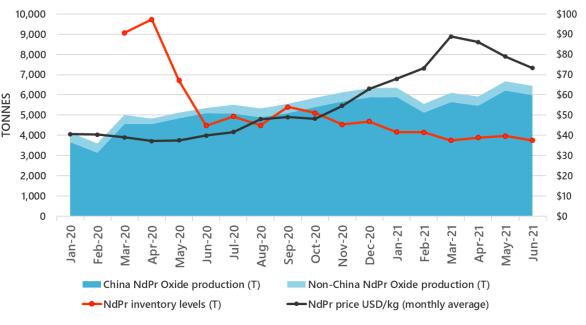


Source: Arafura internal Supply Demand forecast referencing against data from CRU, Rare Earth Market Study 2020; Roskill, Rare Earth Market Analysis 2018, Adamas Intelligence, Rare Earth Market Outlook to 2030.

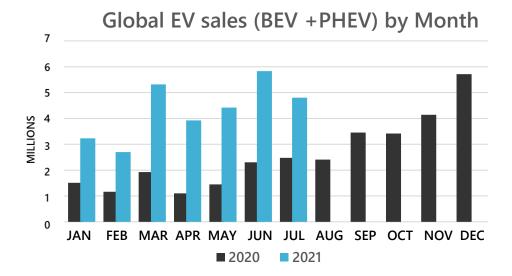
NdPr Price Rise

- Chinese inventory stockpiles down by ~60% since mid-2020
- Chinese producers near full capacity
- Supply chain issues highlighted by growing EV sales
- Critical Minerals Initiatives and supply chain de-risking required to facilitate government policies and targets for E-mobility and renewables

NdPr Oxide Output & Price EXW China



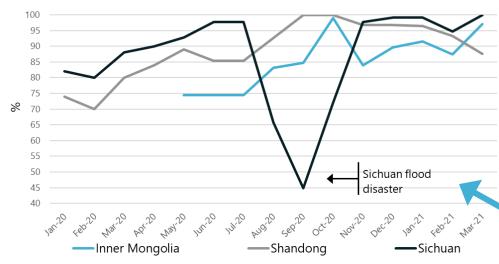
Source: Lynas, BAINFO, Asian Metals



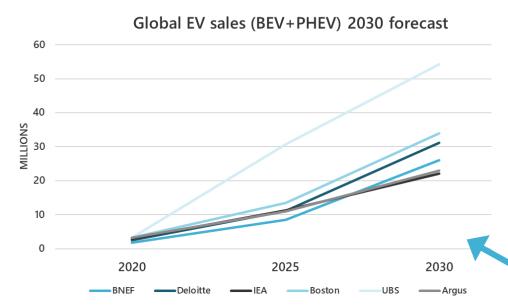


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LRE Separation plant utilisation rates of Chinese regions



Source: Baiinfo and Argus



Source: BNEF / Deloitte / IEA / Boston / UBS / Argus (Global EV Sales Forecast)

Supply expansion challenge

- Tighter environmental and regulatory controls in China have resulted in production volumes contracting
- China Northern Rare Earths (largest producer) will increase production but will require plant expansion to significantly improve capacity
- New capacity will have higher capital and operating costs to meet new ESG standards
- China production expansion and imported semi-finished materials required to meet growing domestic demand driven by EV and renewables objectives
 - Other global NdPr users will require alternative supply chain solutions to satisfy their procurement needs



Local Processing: More Jobs, Secure Supply Chains

1. Mine 2. RE Extraction

3. RE Separation4. NdPr Oxide

5. NdPr Metal (Conversion)

6. NdFeB Alloy/ Magnet Maker 7. End User/ Manufacturer

Non-China Value Chain











China Value Chain

IMPORT

IMPORT & IMPORT TOLL PROCESS





**

Imported feedstock will be the main source of NdPr supply expansion in China.

Creating environmental stewardship issue from exporting raw materials for processing without transparency of waste stream management. Export of China RE oxide separation technology is illegal, this could extend to exporting toll processed material. Since December 2020, Beijing's export control policy applies to regulate the export of sensitive materials and technologies. NdPr procurement will be central to China's 2025 EV and renewable objectives.

Supply diversification critical to provide supply security that will meet sustainability objectives.



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