

Annual General Meeting

21 October 2021



(ASX:ARU)



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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.

NdPr Market Update

NdFeB Magnets

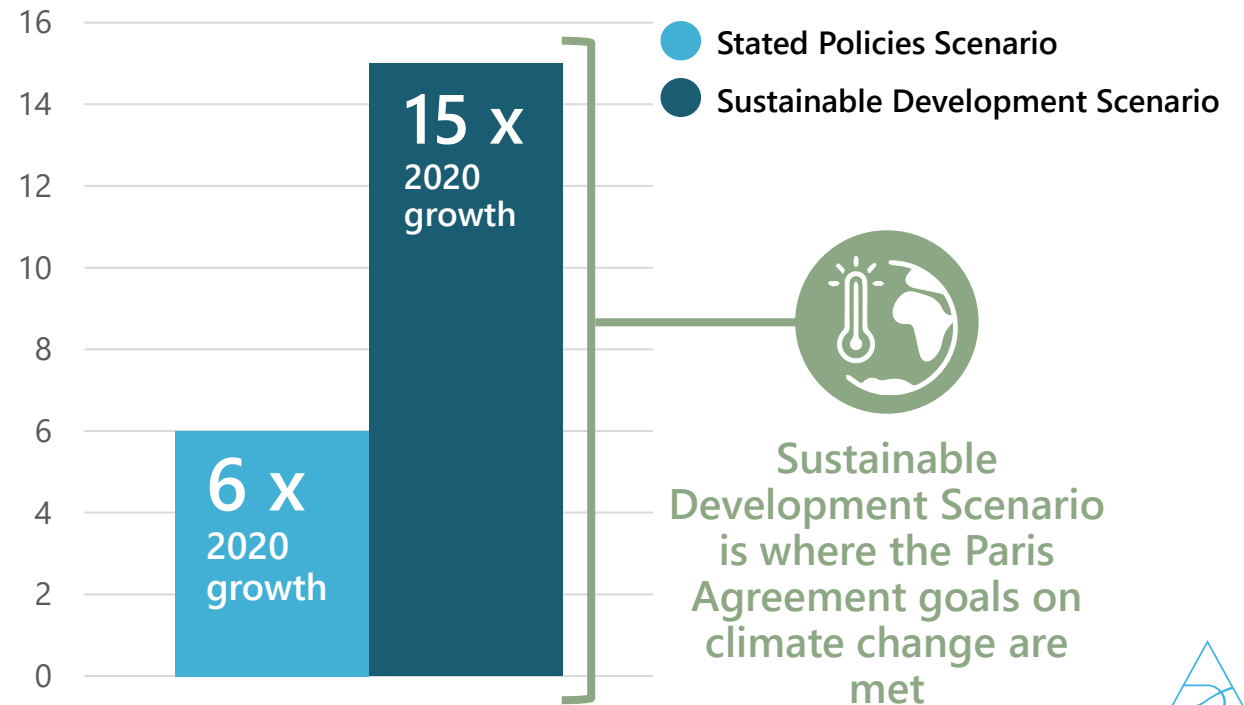
A Vital Cog in the Electric Vehicle Revolution

EV market growth is exponential: **10 to 40 times** in the next 20 years which will require **6-15 times more rare earth elements**

EV traction motors can use **upwards of 1kg of Rare Earth Elements** (NdPr, Dy, Tb)

Just 0.05% of the vehicle cost: **but it can't run without it**

Rare Earth demand growth from new EV sales by scenario 2040 compared to 2020



Source: IEA, Mineral demand growth from new EV sales by scenario, 2040 compared to 2020, IEA, Paris

A lesson in the Auto Semiconductor Shortage

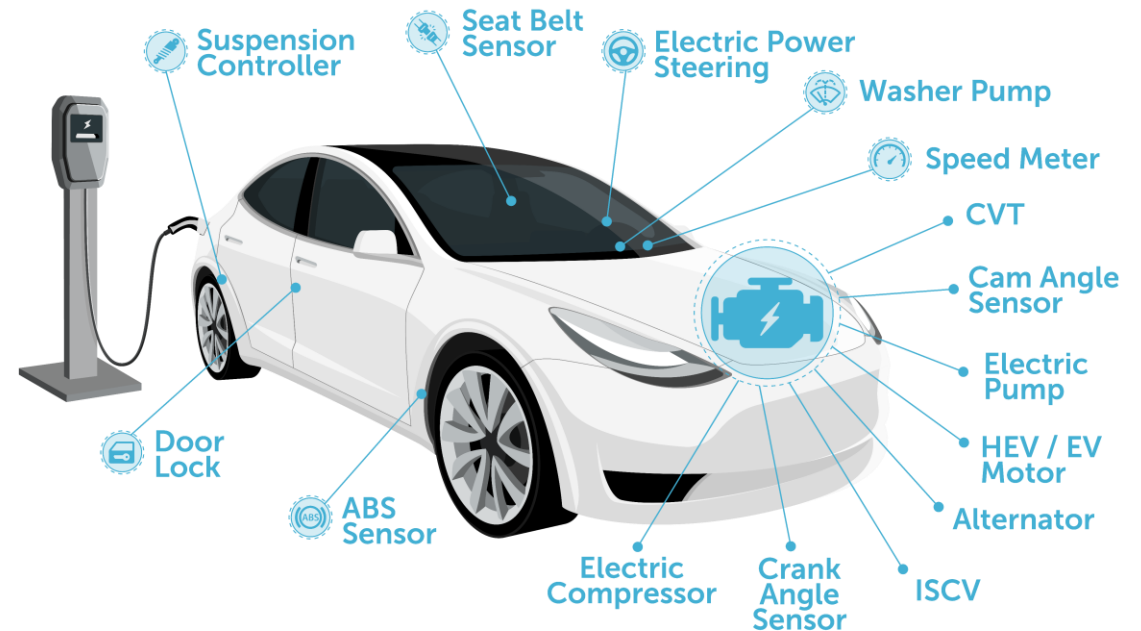
- The shortage has caused **billions of dollars in lost revenue** for the Auto industry
- It highlights how a **tiny cog in the supply chain can disrupt the global market**

The Looming NdPr Shortage

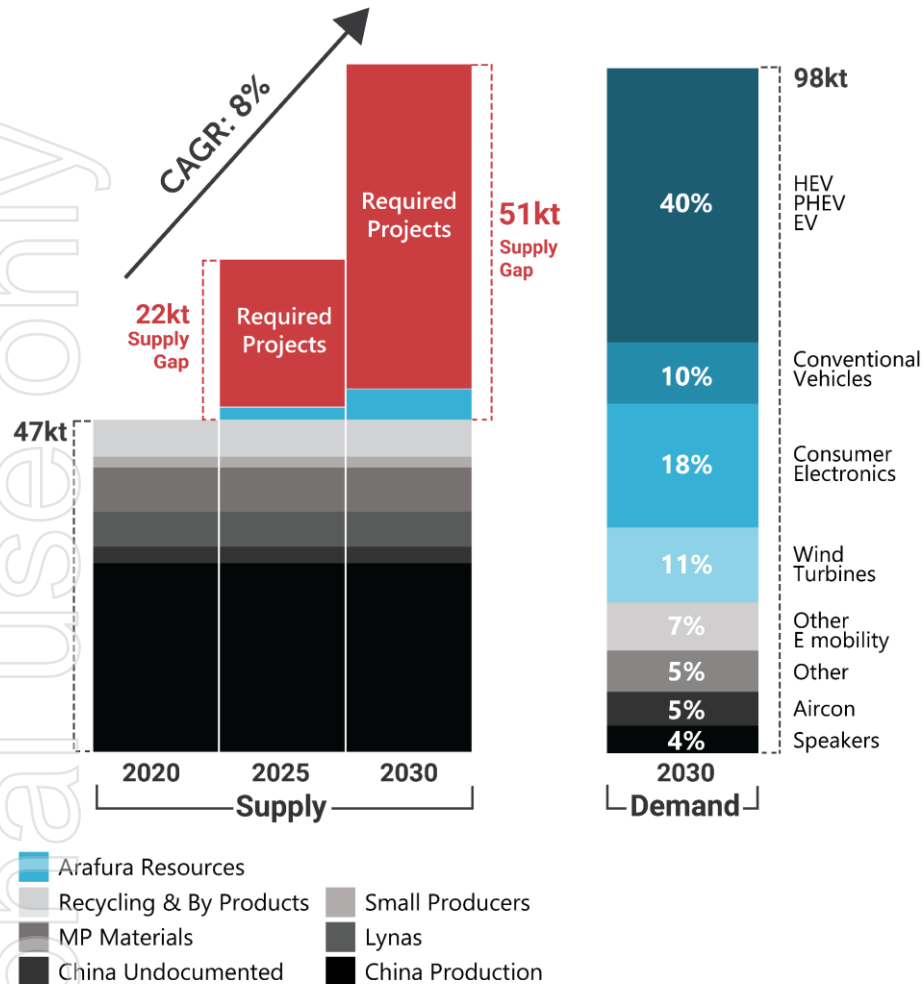
- **China is the only country in the world to have a domestic supply chain solution** (Mine to EV)
- Global industry is heavily reliant on China who produce ~85% of NdPr and consume 60%

There is **high urgency** for the non-chinese auto sector to **secure future supply of NdPr** otherwise global shortages are imminent

NdFeB Magnet Components in an EV



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.

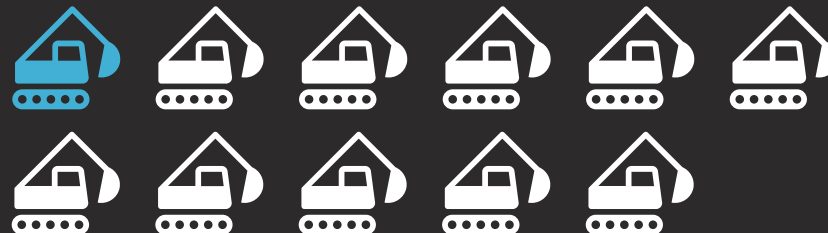
Cumulative Annual Growth Rate (CAGR)

Increasing DEMAND* (2020 data)

- Automotive sector is forecast to **consume nearly 50% of NdFeB supply**
- 2030 demand forecast assumes **~34 million EVs**
- 24 million EVs at risk in 2025** if new supply isn't secured

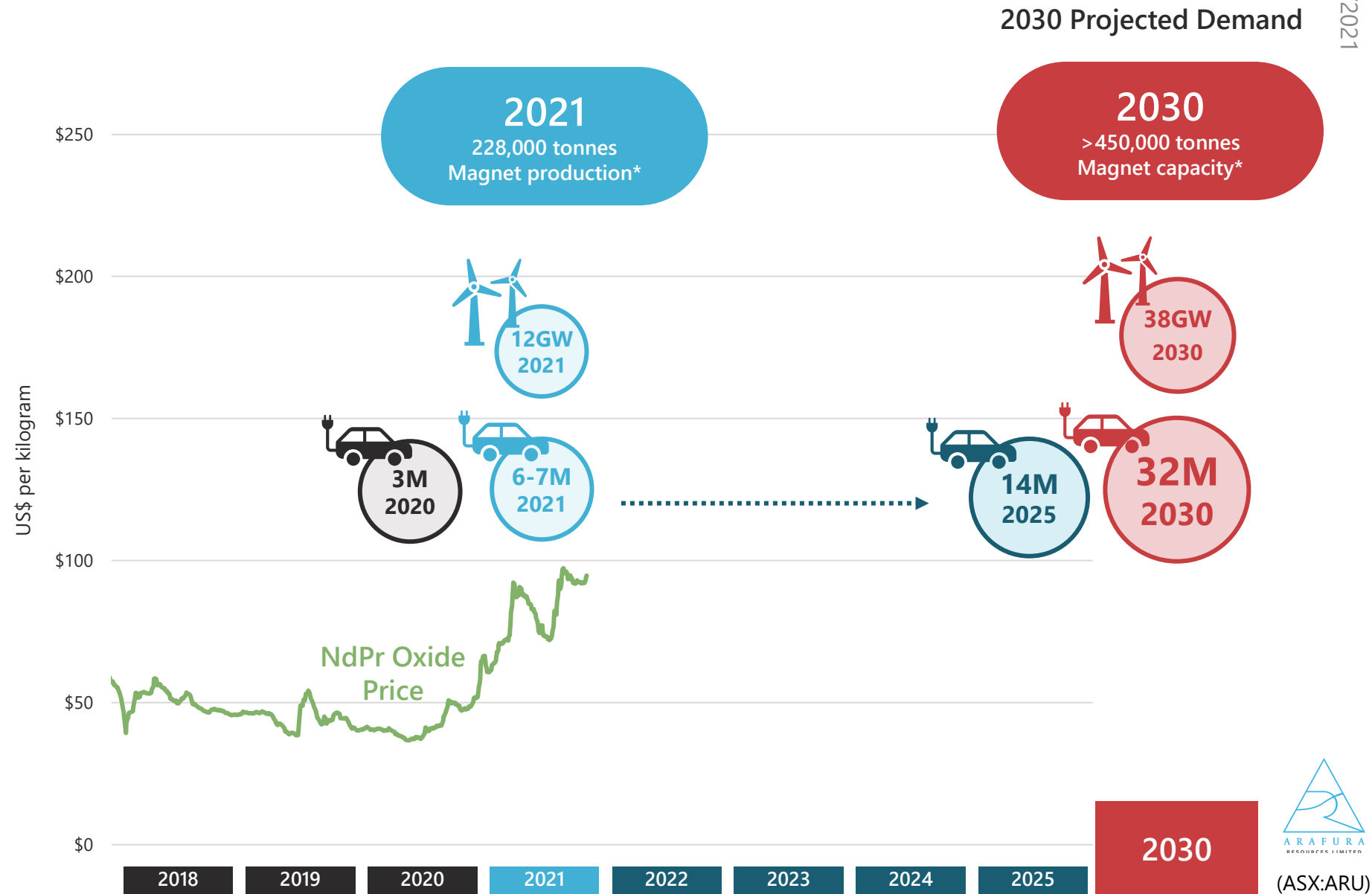
SUPPLY Shortage

Market analysts forecast a **supply gap in 2030 that represents 109% of global supply** today which is in excess of **11 Nolans Projects**



Demand Driving NdPr Prices

- ✓ Chinese magnet makers unable to deliver on some long-term fixed price contracts
- ✓ OEM's starting to align procurement with publicly stated targets
- ✓ May see OEM buy-in to secure future NdPr for own requirements
- ✓ Offtake arrangements with Arafura provides supply guarantee

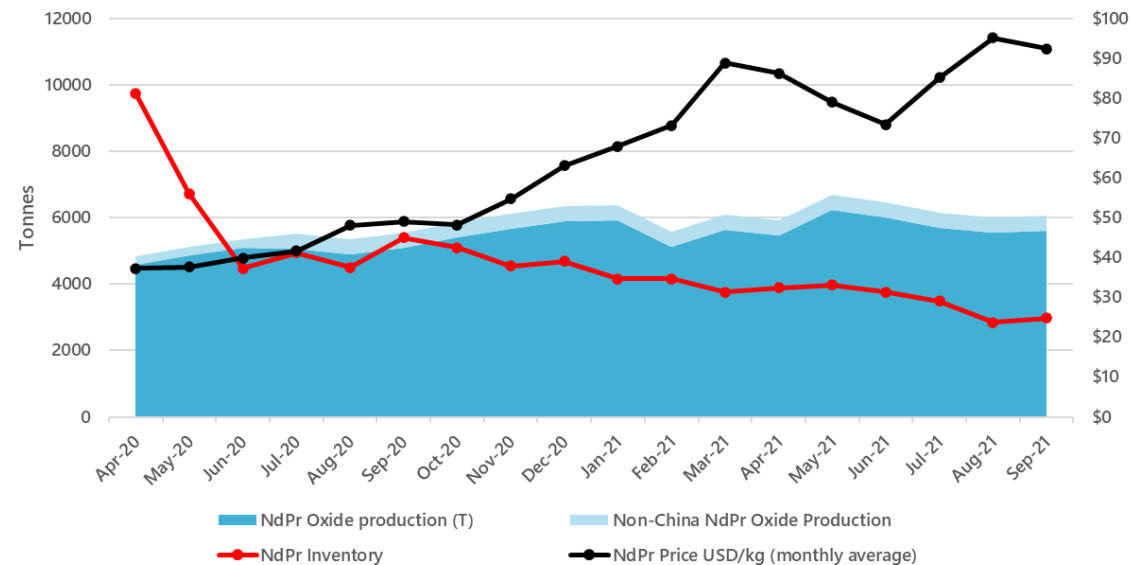


Source: 2021 Average EV Sales Forecast 2025 and 2030 - BNEF / Deloitte / Boston / UBS / Argus / IEA Global; GWEC Wind data October 2021; *Magnet capacity – WoodMac Sept 2021

Supply also impacting Price

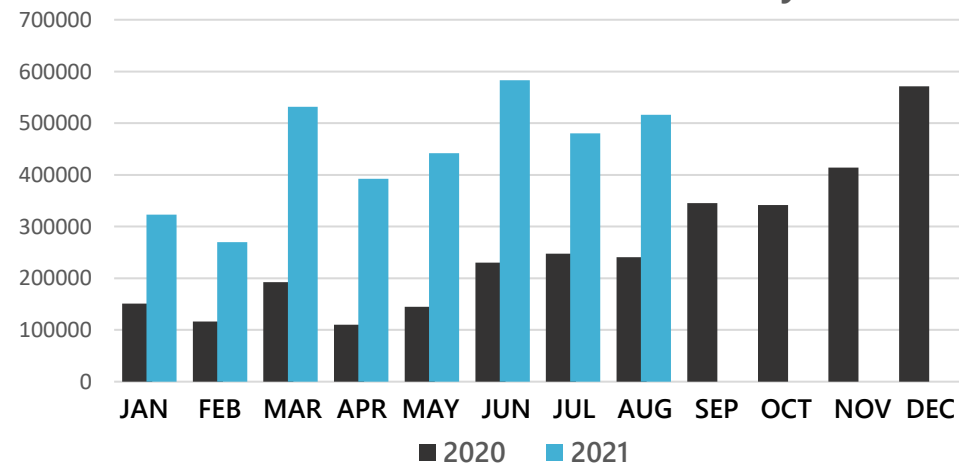
- ✓ Chinese inventory stockpiles down by ~60% since mid-2020
- ✓ Chinese producers near full capacity
- ✓ Supply chain issues highlighted by growing EV sales
- ✓ Governments are implementing Critical Minerals Initiatives and supply chain de-risking to facilitate policies and targets for E-mobility and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

NdPr Oxide Output & Price EXW China



Source: Lynas, BAINFO, Asian Metals

Global EV sales (BEV + PHEV) by Month



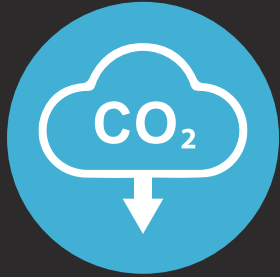
Source: EV Volumes, Inside EV

Funding & Offtake



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Funding Strategy Leverages Global Focus on Critical Material Supply Chains



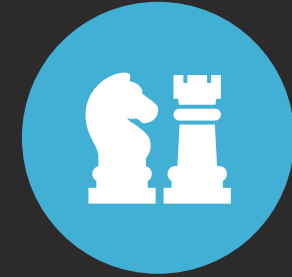
Most countries targeting **low carbon transport and renewable energy to achieve net-zero emissions.**

Increased focus on the need for diversified and robust critical material value chains.



Arafura has secured conditional letters of support for senior debt facilities:

- Export Finance Australia (**EFA**) for a 15-year facility for **\$200m¹**.
- Northern Australia Infrastructure Facility (**NAIF**) for a 15- year facility for **\$100m¹**.



Targeting Export Credit Agency's (ECAs) that will provide debt and debt guarantees for **well structured projects that supply critical materials for the manufacture of EVs and renewable technologies.**

Original Equipment Manufacturers (OEMs) looking to **engage upstream to secure raw materials.** Offtake discussion has expanded to include strategic investment²



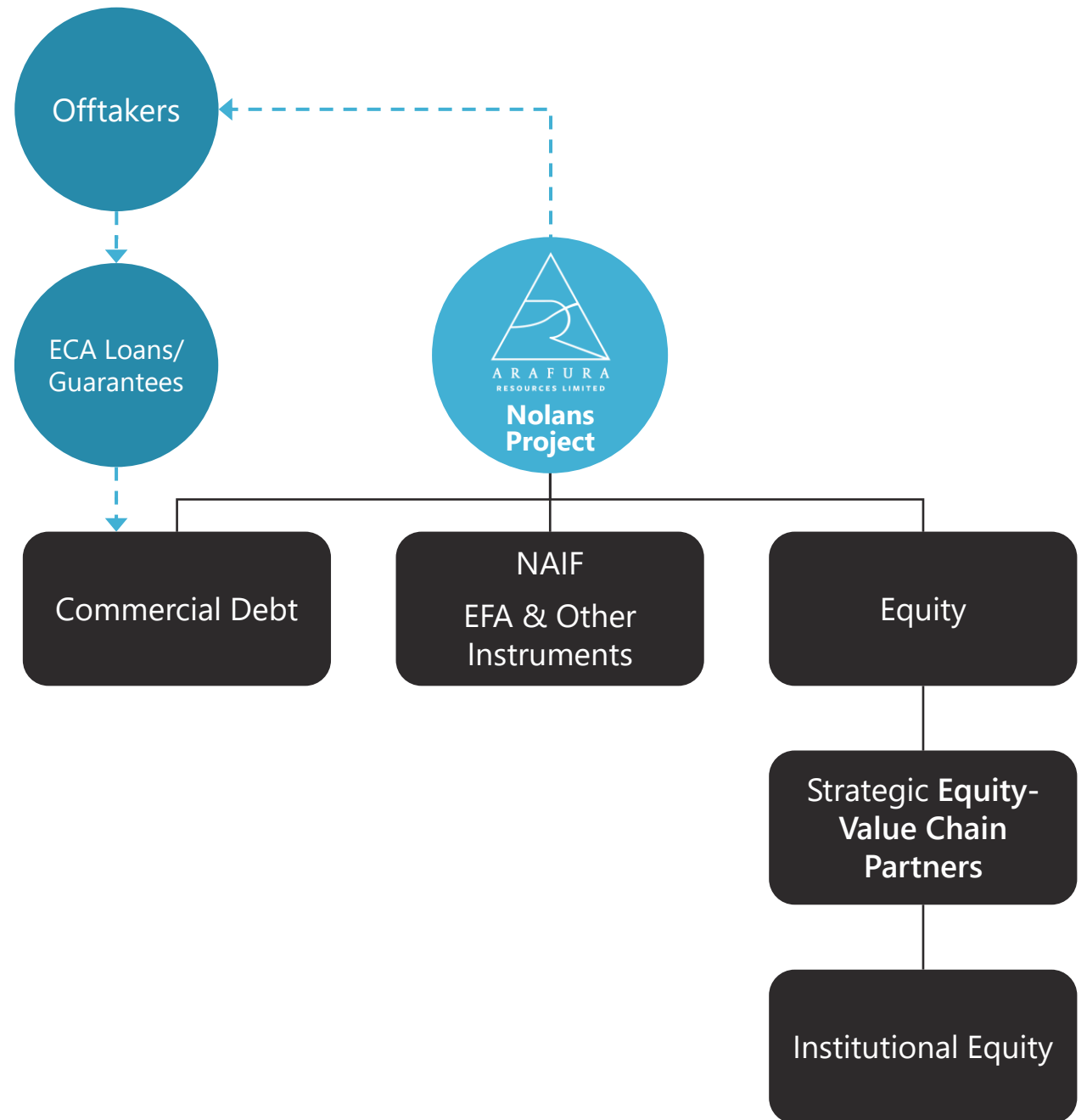
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¹Conditional letters of support are non-binding and conditional upon internal credit approval, negotiation of lender agreements and further due diligence enquiries (among other conditions).

²The Company at this stage, has no certainty as to the timing and likelihood of negotiations with potential strategic equity partners successfully concluding or binding agreements being entered. Details of any binding arrangements will be announced to the ASX if (and when) formal agreements have been executed.

Targeted Funding Structure

- ✓ ECA debt and guarantees will be critical but not the entire funding solution
- ✓ Portfolio of funding sources
- ✓ Offtake, debt and strategic equity all interlinked and driving schedule



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



Nolans aims to supply
~**5%** of **global demand**
for NdPr oxide



Arafura is in discussions with **10 parties** for **>260% of Planned Production¹** with a view to secure 85% as binding offtake



Current indicative sales opportunities				
USA	Europe	Japan	Korea	China
10,000 tonnes of NdPr Oxide ¹				1,800t ¹
OEM Magnet	OEM Wind Turbine Manufacturer E-Motor	E-Motor Magnet	OEM/Motor Trader	MOU JingCi Material Science MOU Tianhe Magnetics

1. Planned Production refers to the average annual production from Nolans of 4,440 tpa (Refer ASX Announcement dated 11 May 2021). Volumes allocated to China may be reduced where offtake is secured in other jurisdictions. Arafura will keep the market informed of entry into any binding offtake arrangements.

Sustainable producer of NdPr to align to "green procurement" strategy

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1

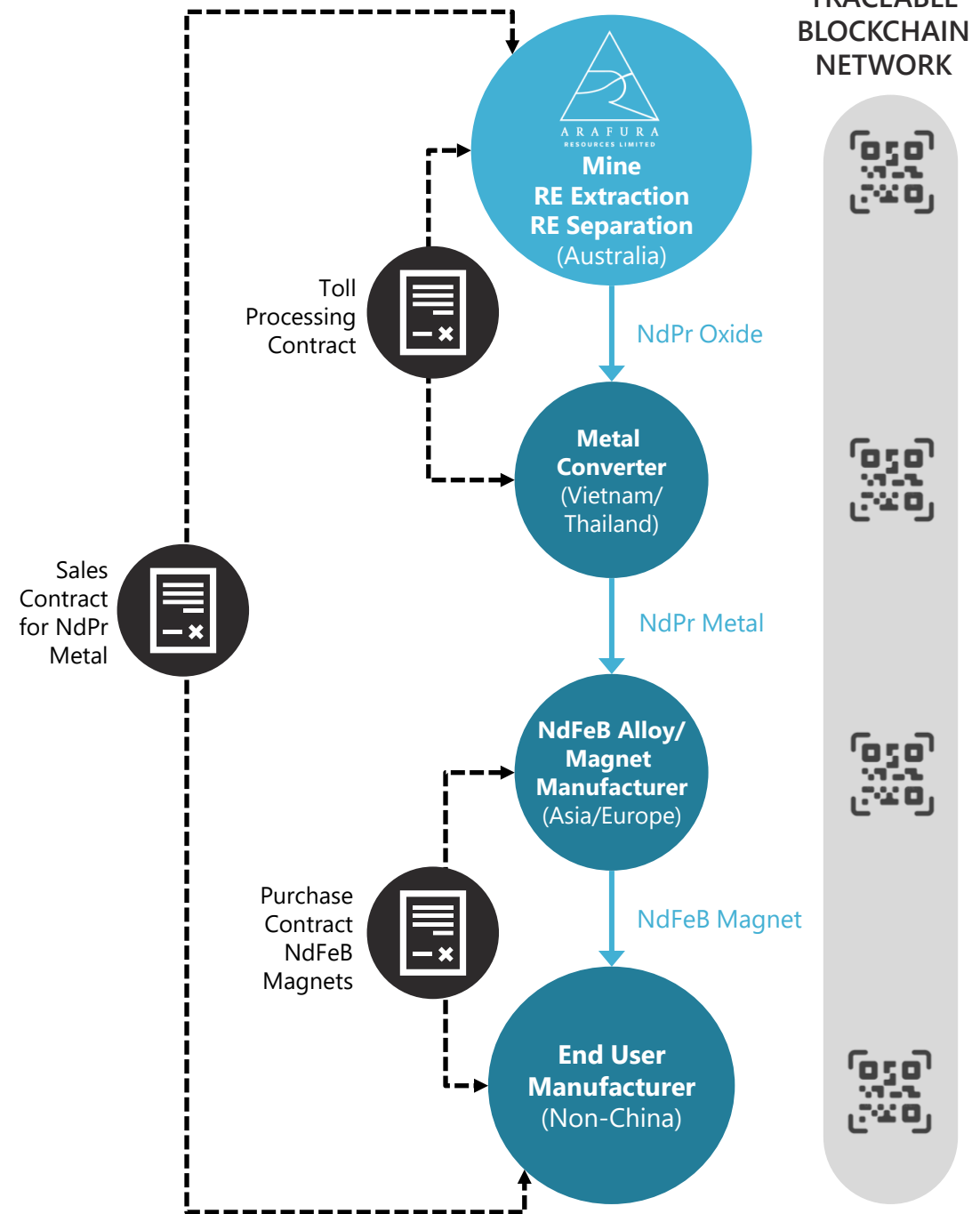
2

Offtake Model proposes delivery of NdPr metal into End Users existing supply chain

3

Provides customers with security of NdPr supply, verified traceable supply and optionality to direct material to a chosen magnet maker

ARU has an MoU with SE Asia based toll metal converter and aiming to execute a tolling agreement



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



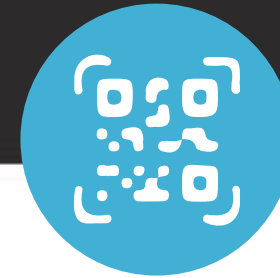
Finalise Update of Sustainability Report

- 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

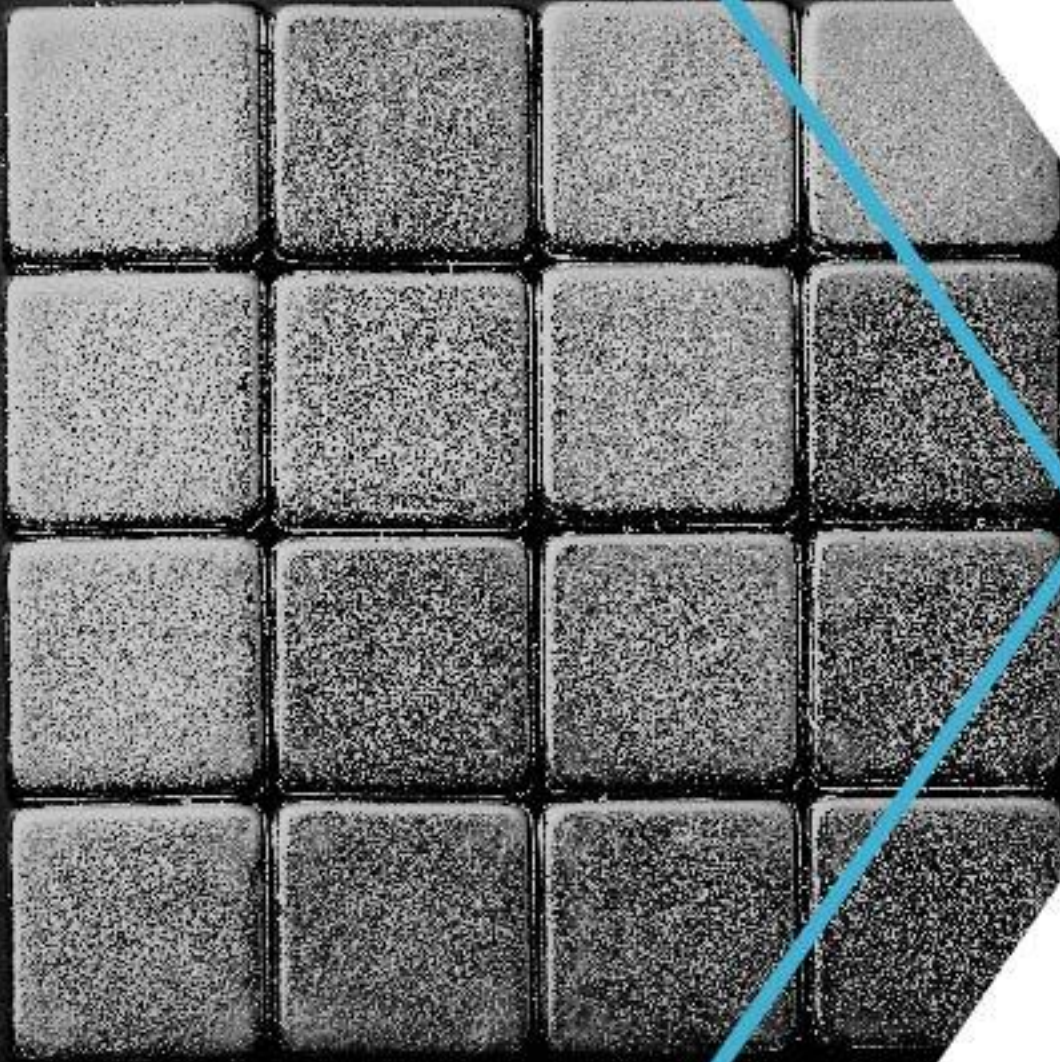
- Aligned with customers' ESG expectations
- Will allow tracing of Nolans sustainably produced products through entire supply chain to customers



Innovation and Technology

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

How Are We Progressing?



Project Economics

Mining and Production		
Mine Life (years)	38	
NdPr Oxide (tpa)	4,440	
SEG/HRE Oxide (tpa)	474	
Phosphoric Acid (tpa 54% P ₂ O ₅ MGA)	144,393	
Financial	US\$	A\$
Capital Cost (\$m)	768	1,056
NdPr Oxide (US\$/kg)	87	120
Rare Earth Sales Revenue (\$m/pa)	388	534
Phosphoric Acid Sales Revenue (\$m/pa)	58	79
Mining Costs (\$m/pa)	(30)	(42)
Processing Costs (\$m/pa)	(105)	(145)
General and Administration Costs (\$m/pa)	(15)	(21)
EBITDA (\$m/pa)	257	354
KPI Analysis	US\$	A\$
Operating Cost \$/kg NdPr	33.91	46.60
Operating Cost \$/kg NdPr net of P ₂ O ₅ credit	24.76	34.06
NPV ₈ after tax (\$m)	1,011	1,402
IRR after tax (%)	18.1%	

Refer to ASX Announcement Nolans Project Update dated 11 May 2021 which assumes a long-term NdPr oxide price of US\$87/kg. Average production and costs are calculated as the arithmetic annual average following the anticipated two year ramp up and excluding the final years of production from low grade stockpiles.

- ✓ Definitive Feasibility Study (DFS) update released in May 2021
- ✓ **Post-tax NPV₈ of A\$1.4 billion** and IRR of 18.1%
- ✓ Capital cost **A\$1,056m**
- ✓ **Annual average EBITDA of A\$354m**
- ✓ Low-cost producer at **US\$24.76/kg NdPr**
- ✓ Robust economics at current NdPr oxide price **US\$90.84/kg***

* Asian Metals (1 July – 30 September 2021 average price).

Shovel Ready



Regulatory



Security of Tenure & Social License to Operate



Technical



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 & strategic equity)

Progress Towards
Construction



Hydrometallurgical Plant FEED commenced August



Non-Process Infrastructure FEED early works progressing



Arafura's Owners' team including personnel from KBR and Wave ramping up

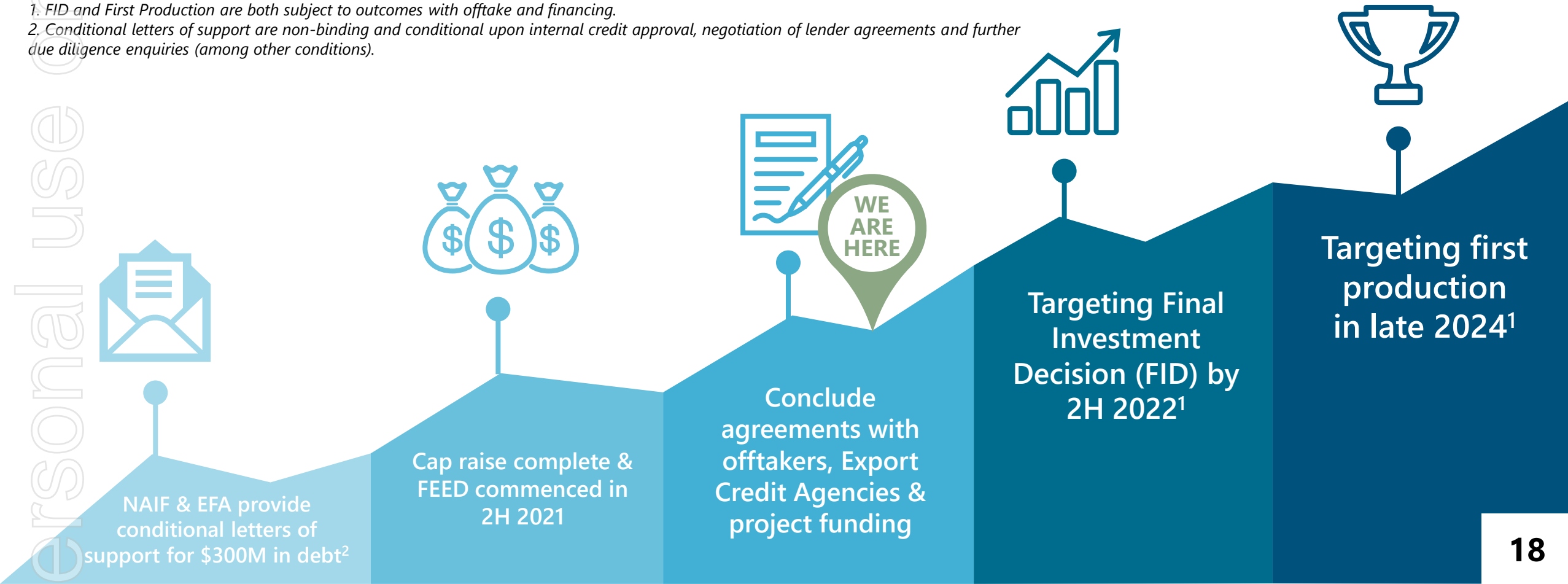


Nolans Key Development Milestones

**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).





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