



Arafura Resources Limited

Singapore Asia Mining Conference

Alistair J Stephens
Managing Director

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Arafura Resources Ltd

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Topics

1. Presentation overview
2. What are rare earths?
3. Overview of the Nolans project
4. Project opportunities
5. Proposed business structure
6. Why Arafura?



Overview

ASX listed

ASX:ARU ASX:ARUO

Principle project – Nolans phosphate hosted rare earth-uranium

Rare earths essential to products with environmental benefits

Exploration projects

Magnetite hosted vanadium, nickel, gold

Strong Board and management team

Experienced Board with influence

Experienced, talented, motivated, focused management team

Business strategy

Define resources for +20 years life with growth potential

A demonstration plant to optimise the process & produce sample products

Looking for a committed and motivated strategic growth partner

Revenues

The rare earth and phosphoric acid markets continue to grow strongly



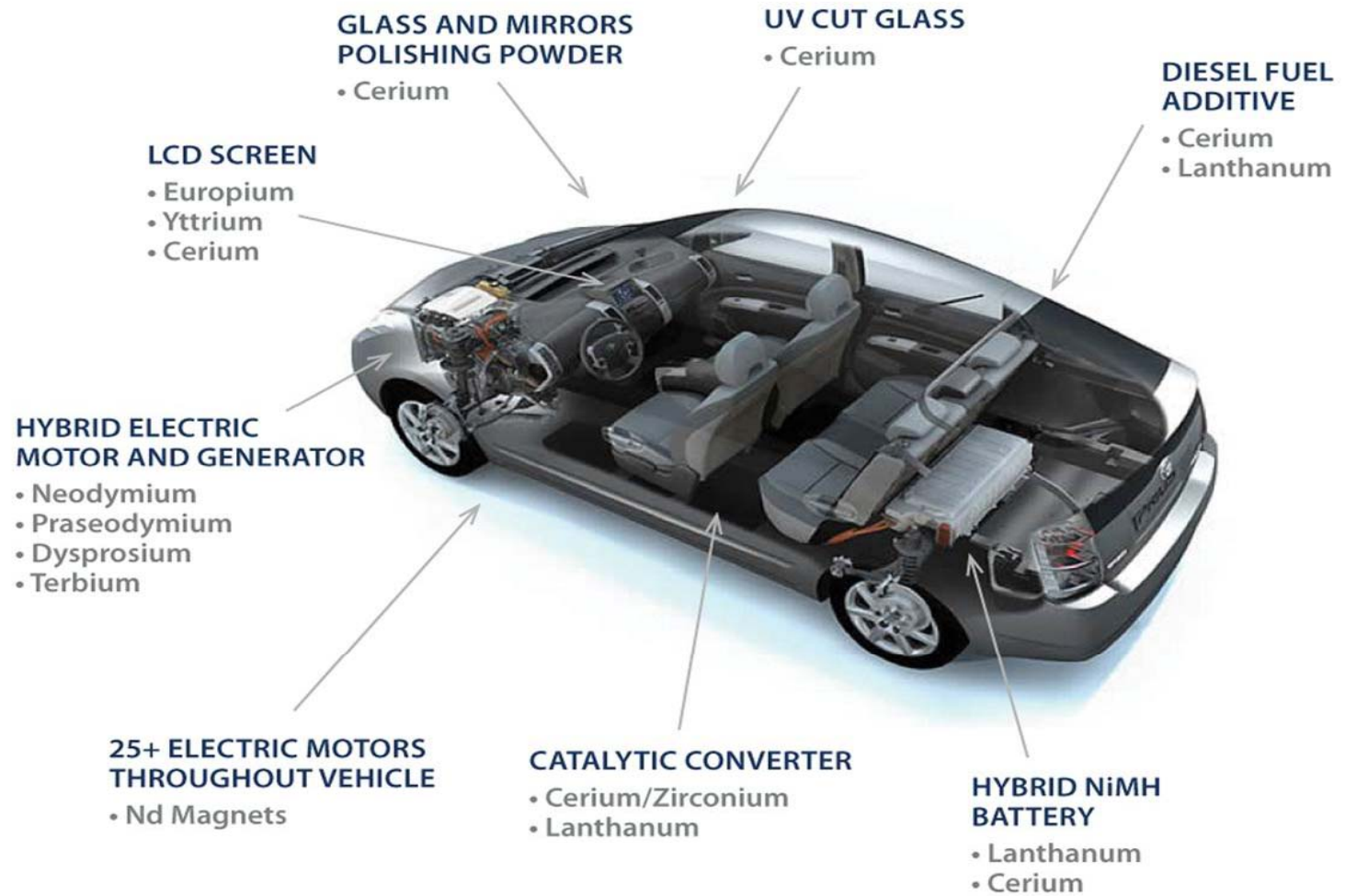
Rare earths – history and future

Market driver

Industry Structure

1900s	Emerging market in flint	}	Emerging market
1950s	Polishing & glass		
1960s	Oil Industry Catalyst	}	Strong growth
1970s	CRT TV era		
1980s	Battery era	}	Industry reforms
1990s	Magnet era		
2000	Electronics & HEV era	}	China's dominance
2010's	Energy, lifestyle, communications		
	Nolans is vitally strategic	}	Rapid Growth Economies of scale Industry consolidation

Rare earths - metals for the future



Rare earths – the source of energy

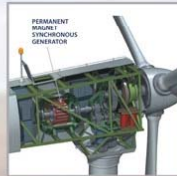


ENERGY PRODUCTION



Petroleum Refining

Lanthanum oxide is used in petroleum cracking catalysts in the oil refining industry.



High-powered Electric Motors

Neodymium, Dysprosium and Terbium are used in the strongest permanent magnets known. Electric motors use these magnets to achieve superior output in power generation from wind.



New Generation Vehicles

Lanthanum is also used as a catalyst in hydrogen fuel cell technology.



ENERGY REDUCTION



UV Filters in Glass

Cerium added to glass is a filter of ultra-violet radiation used in many vehicles.



Reducing Fuel Consumption

Neodymium is used in the electric motors in hybrid cars, which reduces fuel consumption.



Lighter - Faster

Rare earths used in vehicles improve performance and lowers car weight resulting in reduced fuel consumption.

Rare earths - our lifestyle needs



ENERGY EFFICIENCY



New Generation Vehicles

Neodymium and Samarium are used in the strongest permanent magnets known. Electric motors in hybrid cars use these magnets to achieve superior output and torque.



Rechargeable Batteries

Lanthanum is a key component in the rechargeable NiMH batteries used in hybrid cars.



Energy Efficient Lighting

Praseodymium and Europium are key elements in rare earths used in energy efficient lighting.



LIFESTYLE



Colour Screen LCDs/PDPs

Europium, Terbium and Yttrium are used as phosphors in electronic screens.



Components to Hardware

Neodymium permanent magnets and other rare earths are used in computer hard disk drives.



Medical Services

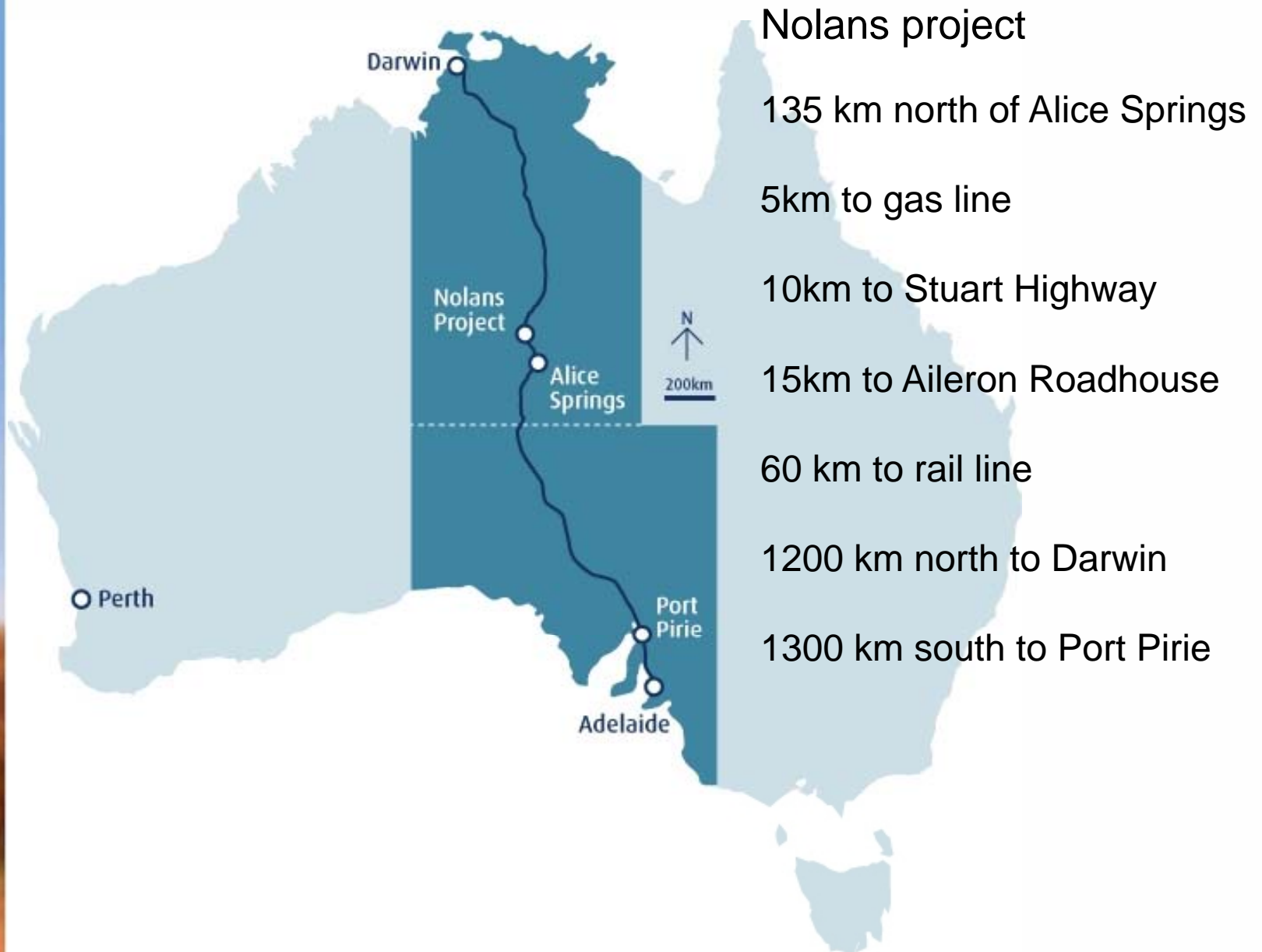
Rare earths are essential components in MRIs.



Autocatalysts

Mixed rare earth oxides are used in environmental catalysts including exhaust converters, chemical scrubbers and other gaseous products and waste streams.

Nolans project location





Nolans project location

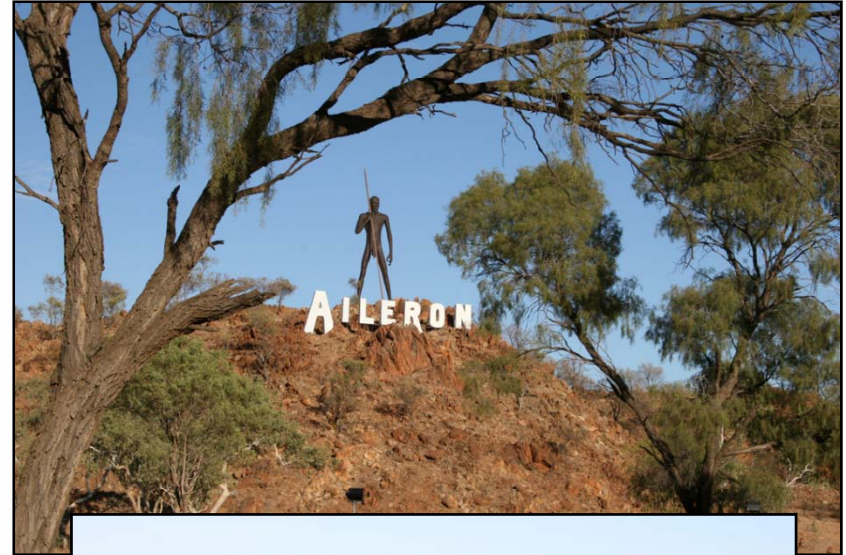
Small shallow open pit mine

+20 year mine life

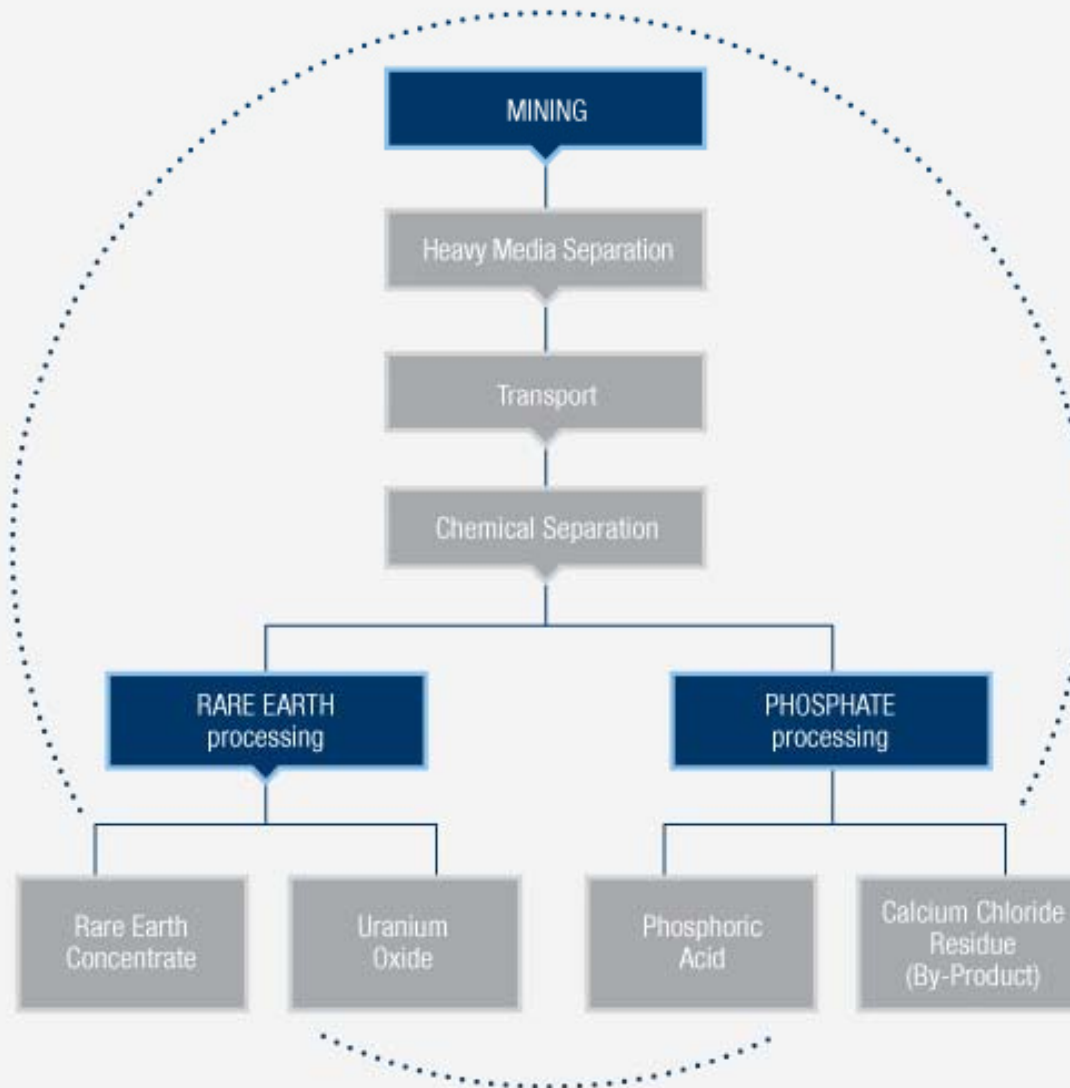
Close to infrastructure

On a Pastoral lease

Aboriginal Anmatjerre Country



Nolans Project Flowsheet





Nolans resource

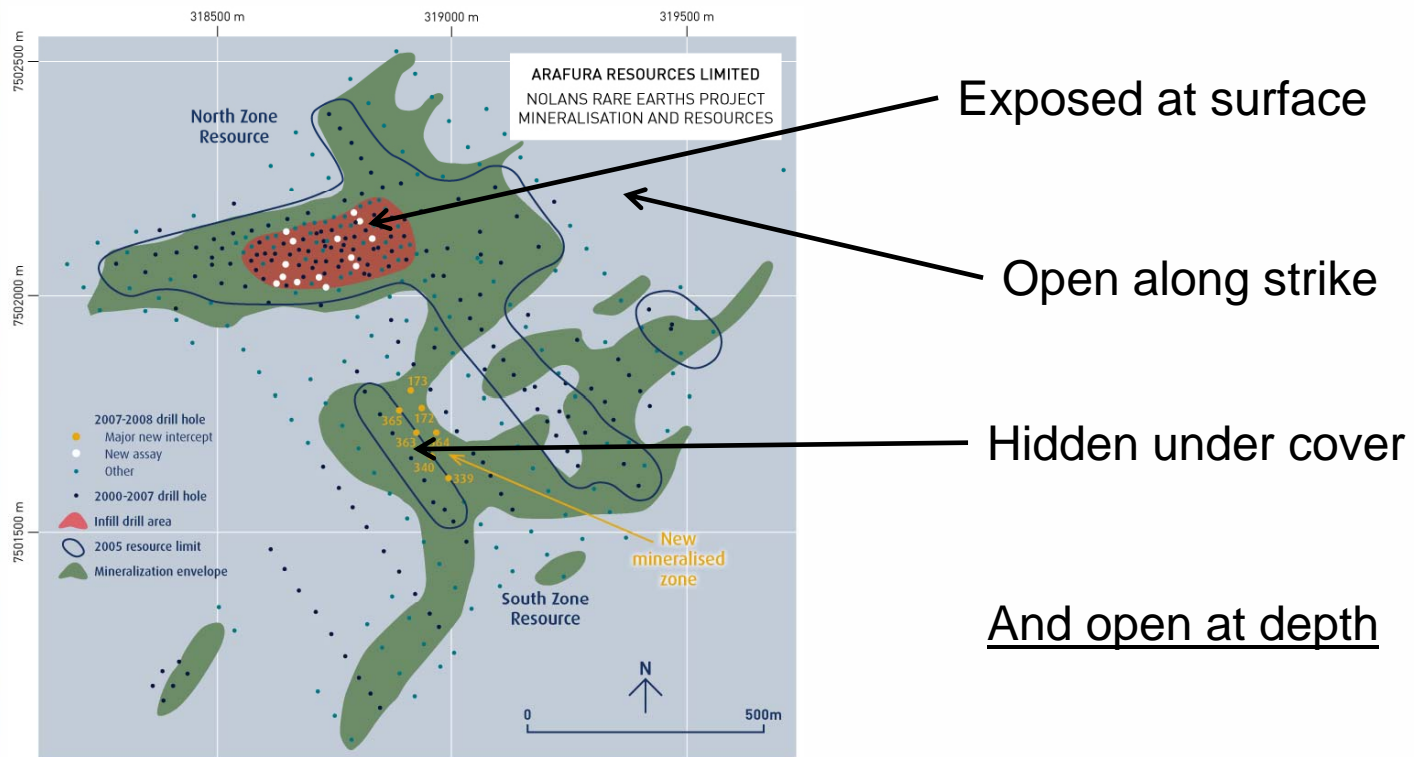
18.6 mt of indicated & Inferred resources - JORC compliant

577,000 tonnes REO (3.1%) and 2.1mt P_2O_5 (14%), 4,000 t U_3O_8 (0.47lb/t).

Only drilled to 100m below surface – open at depth

Current drilling looking for the lateral closure – still open along strike

Exposed at surface – no expensive pre-stripping



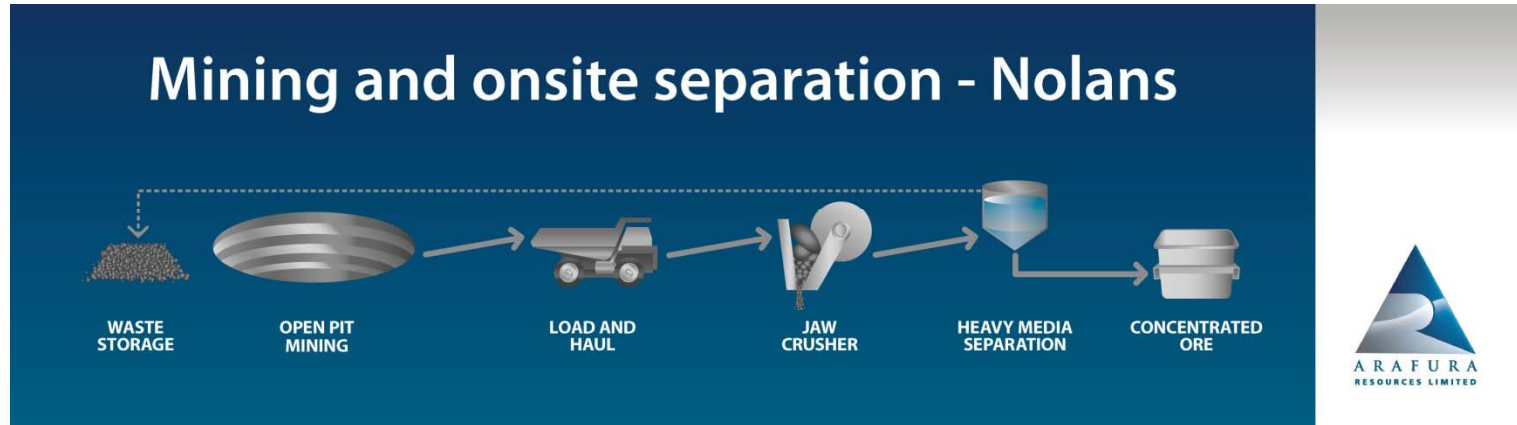


Simple mining

- Mining 1.7M tpa for about 800,000 tpa ore
- Conventional drill & blast open cut operation using excavator and truck
- Crush, screen, wash ore by heavy media separation
- Transport about 500,000 tpa concentrated ore using truck and rail
- Low power and water demand



Heavy media separation (HMS)



HMS Demonstration plant results

- 35% rejection of waste and 85% recovery of REO and Phosphate
- Will upgrade the resource from 3.1% REO to a process feed grade of +5.8%

HMS Demonstration plant optimisation

- looking to improve recovery
- optimise the rejection of waste
- a simple, efficient, low cost process



Pre-feasibility estimates capital $\pm 30\%$

PFS Capital costs accurate to $\pm 30\%$		
Equipment costs $\pm 30\%$		AUD\$ million
	Mine site capital costs	
	- mine, HMS and site offices	75
	Processing plant*	215
	<i>Total</i>	<i>290</i>
Direct costs $\pm 30\%$		
	Civil, concrete, pipes, electrical etc	160
Indirect costs $\pm 30\%$		
	EPCM	90
	First fill and working capital	90
Sub total plant costs $\pm 30\%$		630
Project contingency		120
TOTAL CAPITAL ESTIMATE $\pm 30\%$		750

*includes all grinding, leaching, phosphoric acid, rare earths (to 99% separated product) calcium chloride and uranium plant – based on Australian built & manufactured plant



Pre-feasibility estimates Opex $\pm 30\%$

PFS Operating costs accurate to $\pm 30\%$	
	AUD\$ million per annum
Administration, mining and transport, and labour	50
Chemicals	150
Power and maintenance	50
Sub-total operating costs	250
Transport of imported chemicals	100

Excludes royalties or corporate costs

Several chemical manufacturers have expressed strong interest in building and operating chlor-alkali and sulphuric acid plants on site. This will eliminate transportation costs of imported chemicals



Nolans revenues – at March 2008

	Production per annum (tonnes)	Current price (\$US)	Total revenue US\$ million pa
Rare earths	20,000	*15,000/tonne	300
Phosphoric acid	150,000	1,000/tonne	150
Calcium chloride	400,000	100/tonne	40
Uranium	150	75/lb	25
Total revenue			US\$515
Total revenue at USD:AUD 0.90			AUD\$570
Less operating expenses (excluding transport costs)			AUD\$250
Gross Margin			AUD\$320
Revenue over 20 years undiscounted AUD\$11.5 billion			

*based on Nolans mix of rare earths



Project timeline

Project Schedule

Activity	2008	2009	2010	2011	2012	2013
Mine NOI Mine	█					
Studies for Mine approval	█					
Mine approval		█				
Pilot Plant Studies	█					
Definitive Feasibility Study	█	█				
Process Plant Approval	█	█				
Pre-ordering & Construction			█	█		
Production 50%				█		
Production 75%					█	
Production 100%						█



Rare earths supply chain



China

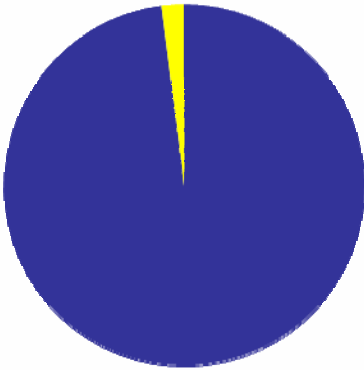


Japan & Europe

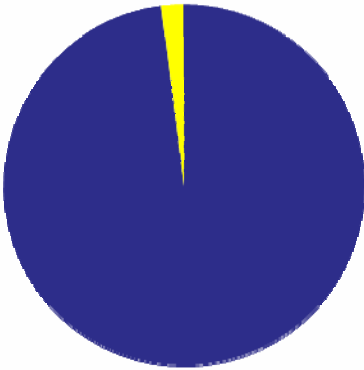


India & Russia

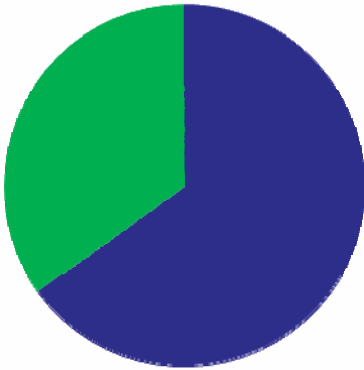
Mining



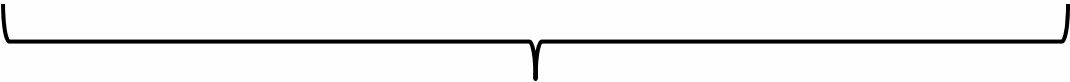
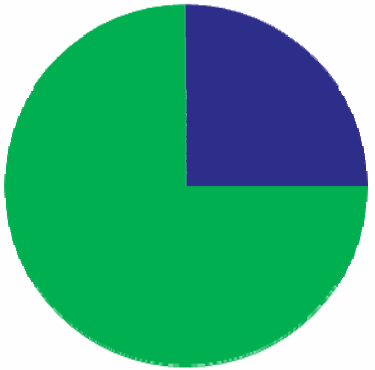
Separation



Metals



Final Products



China dominates supply & controls the supply chain



Demand for our products is strong

Rare Earths

1. Chemical catalysts
Market outlook moderately strong at 5% to 10% per annum
2. Magnets
Strong growth in the hybrid car market – wind power is the sleeper
Current production of NdFeB = 50,000t to double to 100,000t by 2010
Market growth currently 15% to 20% per year
3. Phosphorescence
Strong outlook in the plasma panel market
Demand growing at 40% per annum

Phosphoric acid

Agricultural productivity - the World's need for more protein

Biofuel market - growing rapidly in volume, strength and reputation

Calcium chloride

Australia's need to reduce water wastage in mining and industry

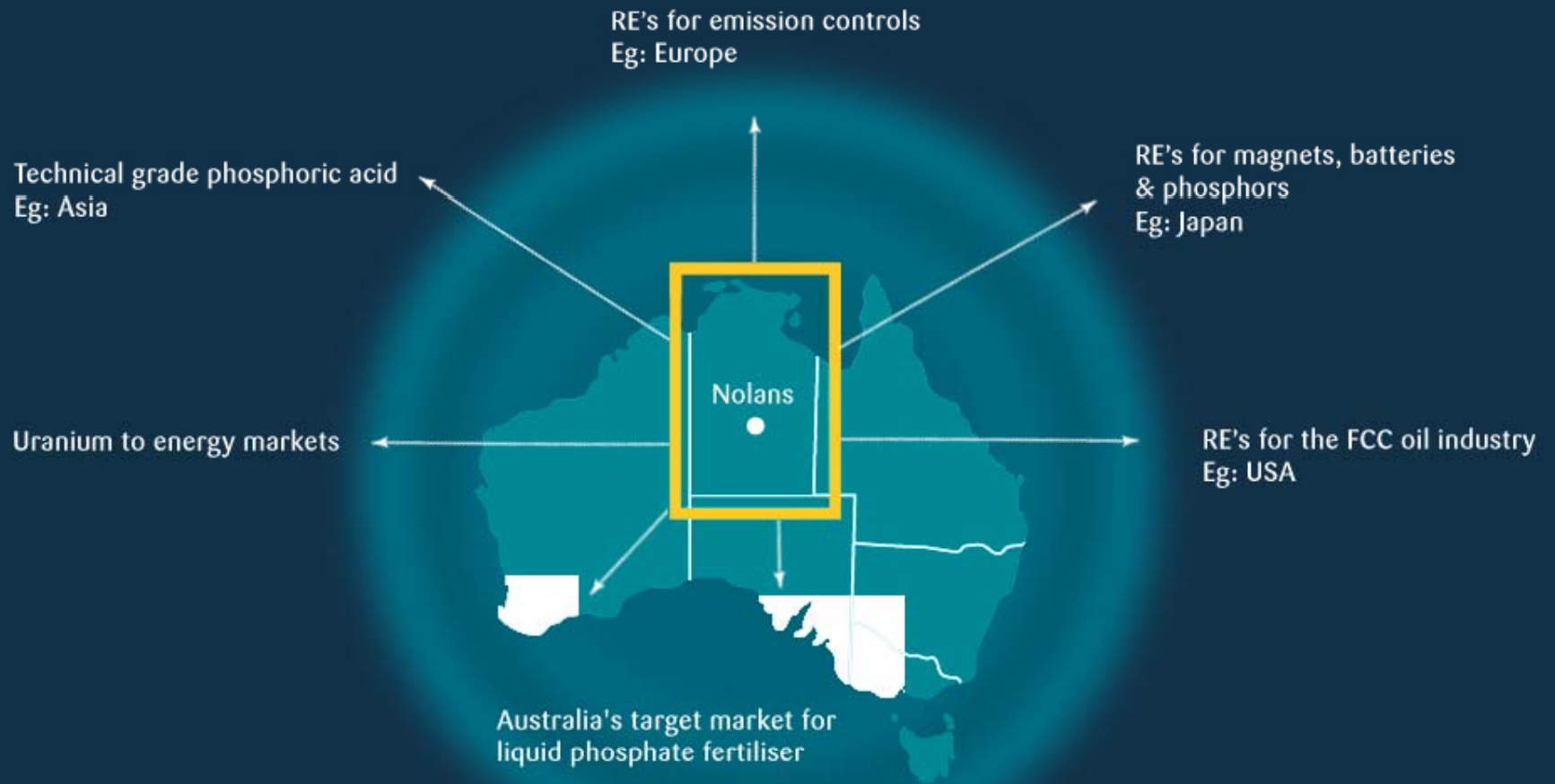
Uranium

Everyone wants it.



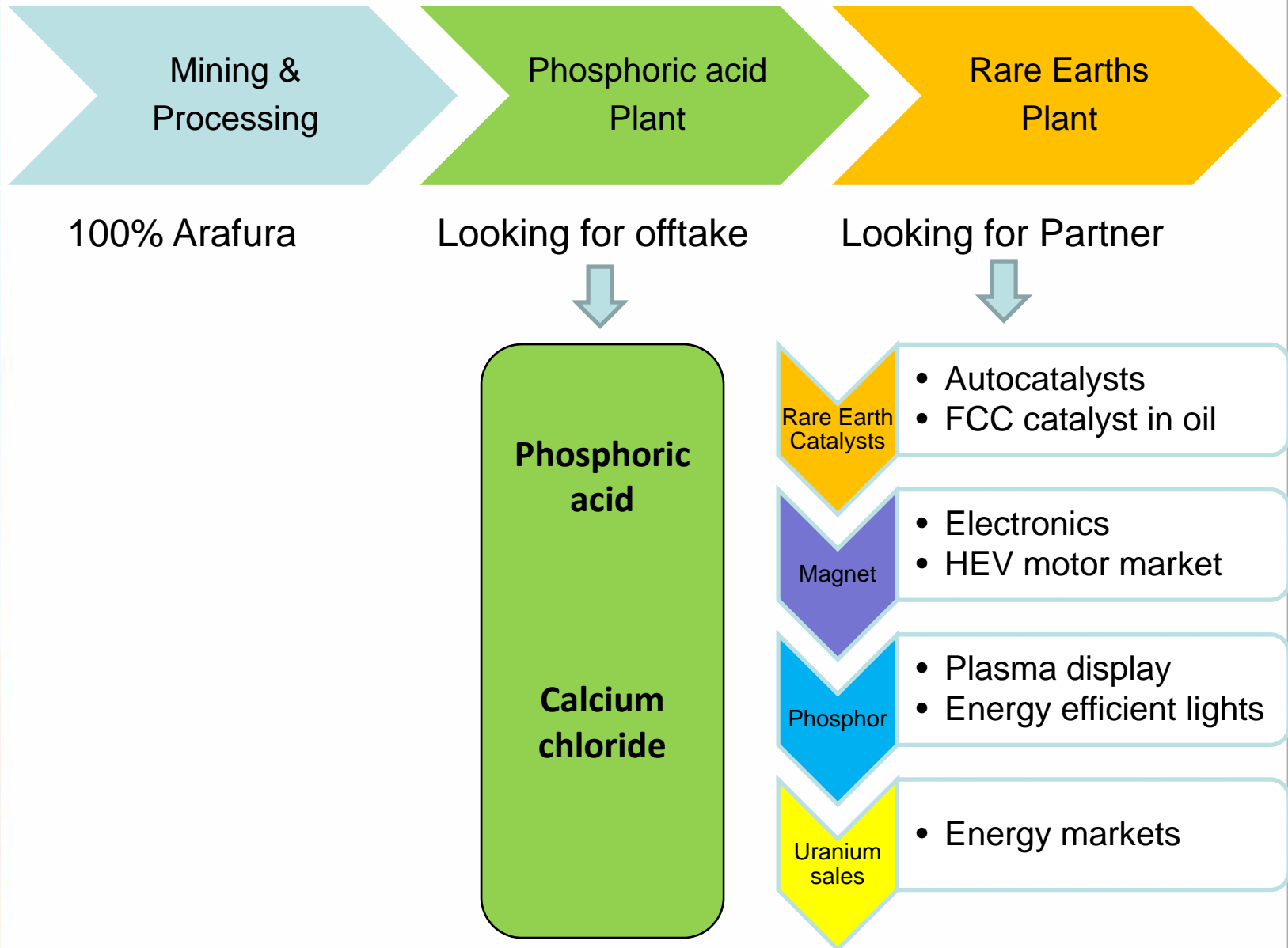
OUR MARKETS

RESOURCES FOR THE FUTURE





Nolans business structure





Why invest in Arafura?

Strong Management Team

Experienced and motivated

A reputation of delivering

Nolans Project

A open resource to support long life, strategic growth opportunities

Community endorsement of the project

Strategically important with strong industry interest in the project

Commodities

Rare Earths are strategically vital - “vitamins of electronics”

Phosphoric acid in very strong demand

Everyone wants the uranium



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