



Arafura Resources NL

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Nolans Bore

Rare Earths

Phosphate

Calcium Chloride

Uranium

Arafura

Resources for the future



Arafura Resources NL

Strong asset base

Short term cash flow from gold and iron ore

Developing project with long life

Commercial ready grant to support feasibility

Multiple revenue streams from Nolans

*An emerging chemicals and Industrial minerals
producer in high growth markets*

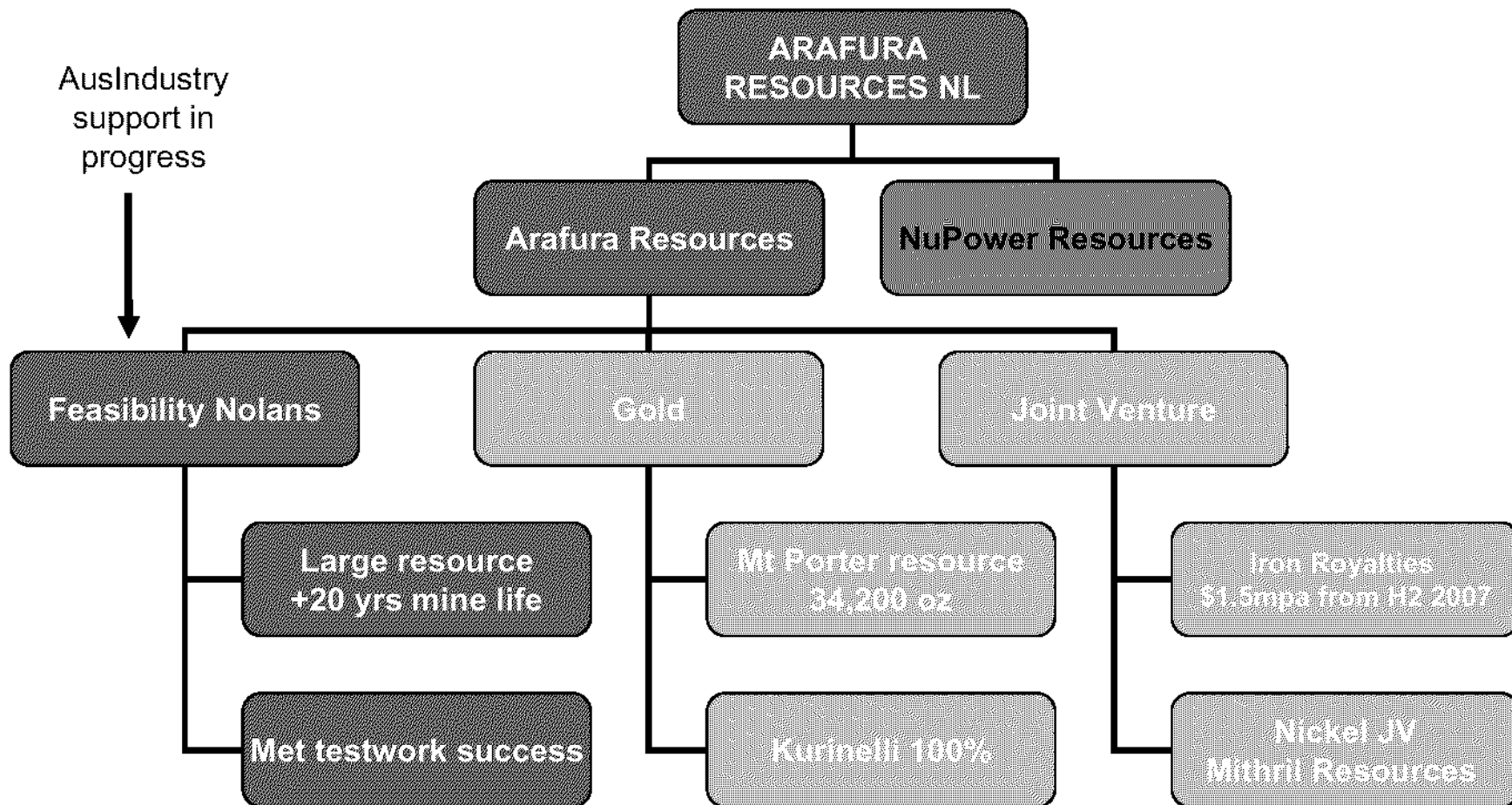


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Resources for the future



Arafura Projects

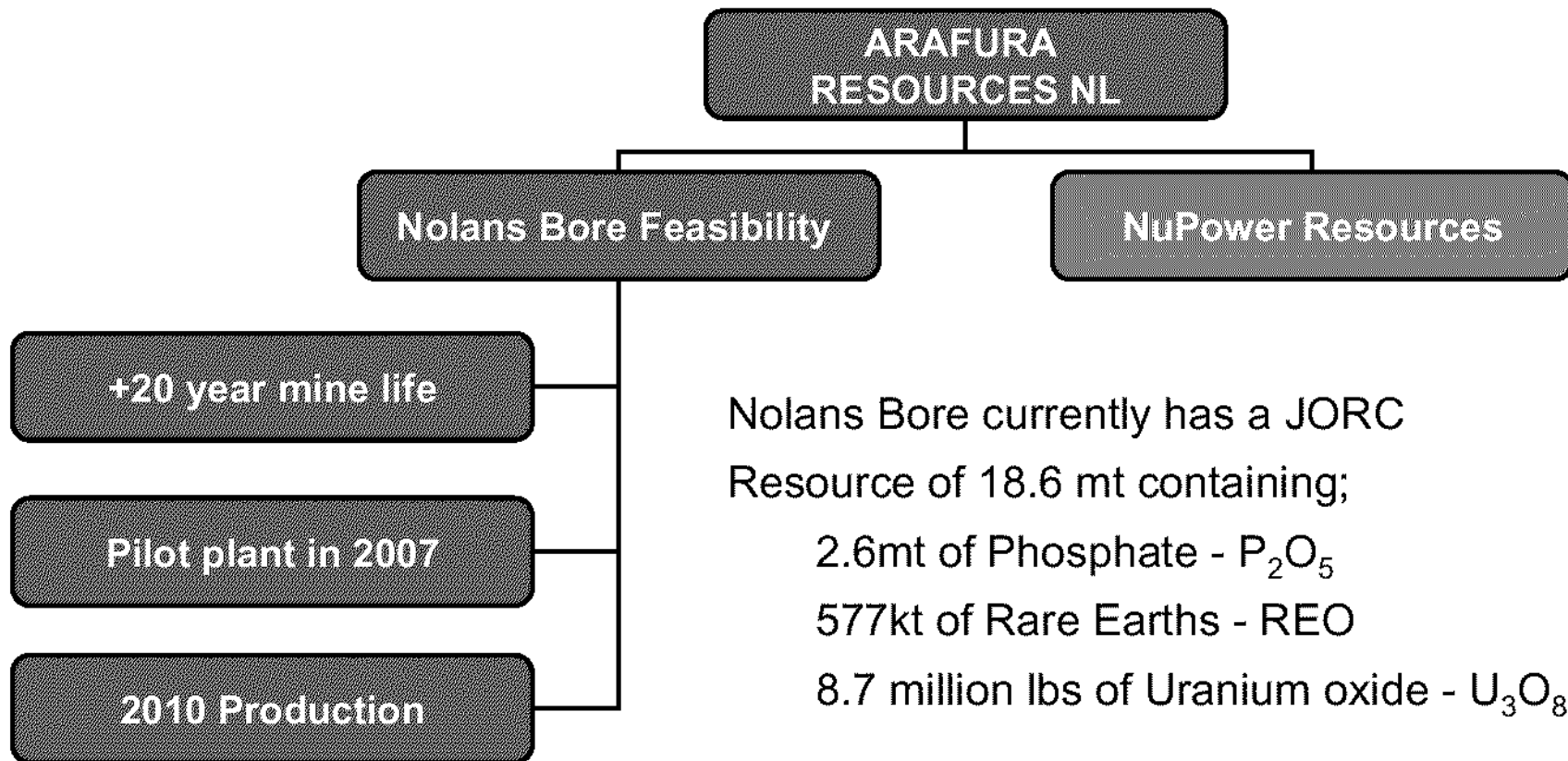
AusIndustry
support in
progress



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Resources for the future



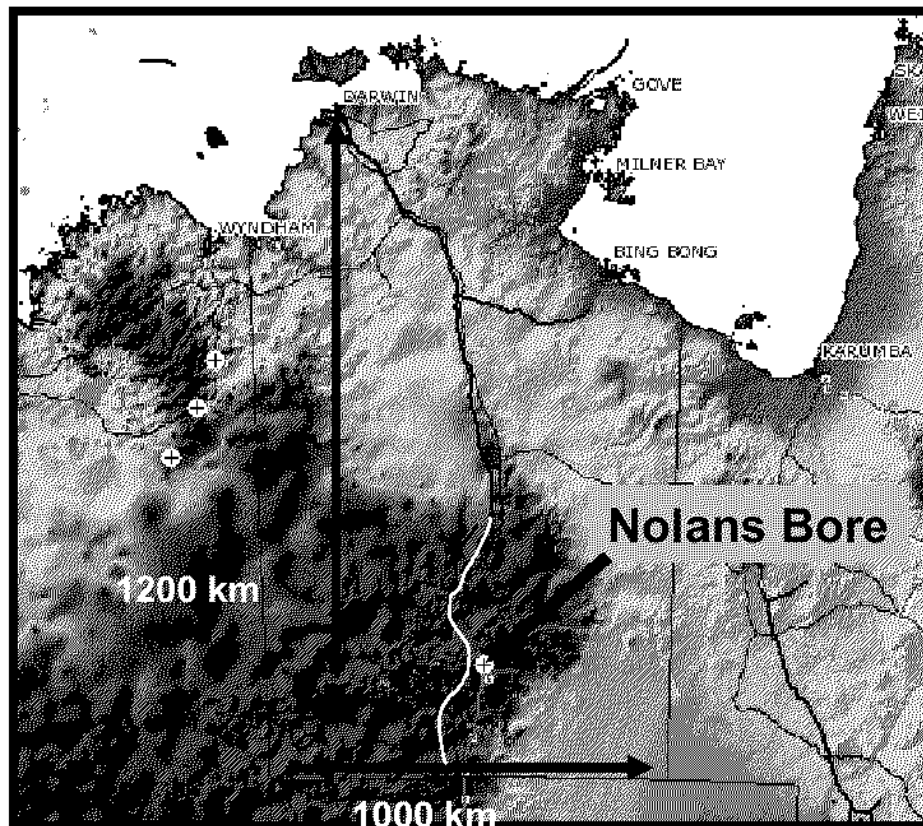
Nolans Bore is a large resource



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Nolans Bore Location



135 kilometres north of Alice Springs

5km to gas

10km to road

60km to rail

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Resources for the future



Nolans Bore – resources

Multi commodity deposit

Rare Earths, Phosphate, Uranium, Calcium Chloride

18.6 mt resource

Rare Earths

Phosphate

Uranium

Thorium

3.1% REO

14% P_2O_5

0.47 lb/t U_3O_8

0.36% ThO_2

577,000 t REO

2.6mt P_2O_5

8.7m lbs U_3O_8

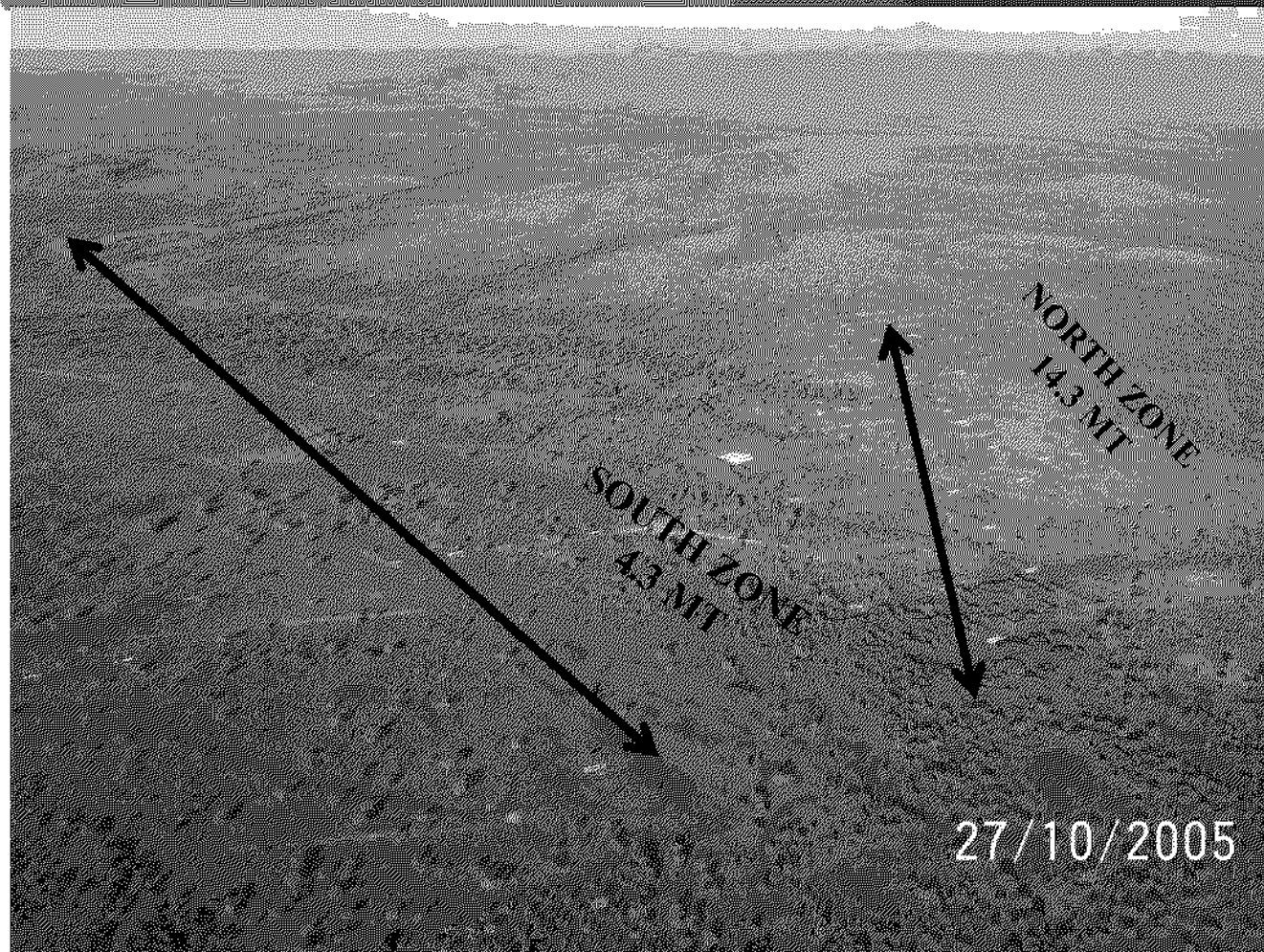
67,000 t ThO_2

Resource has extensive upside potential

Rare Earths
Powering Technology



Nolans Bore Location

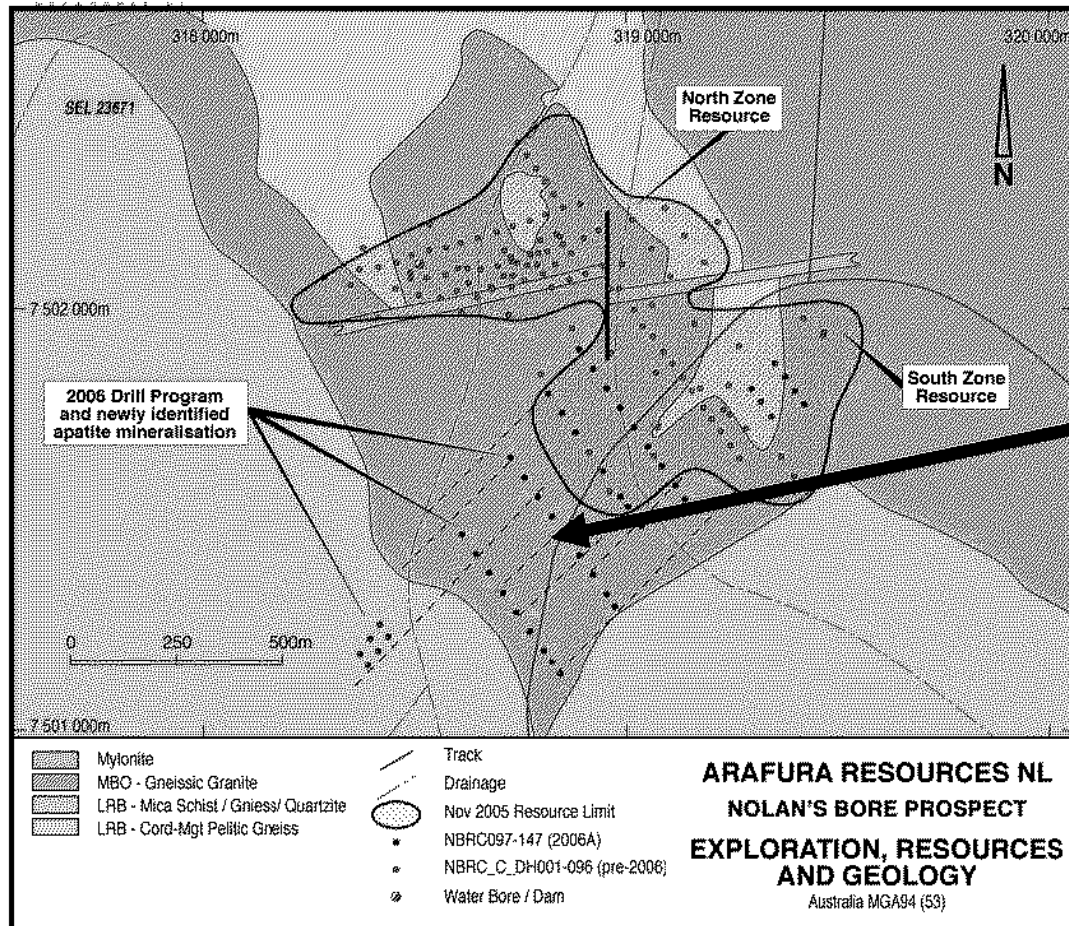


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Nolans Bore - Geology



Extension to
Mineralisation

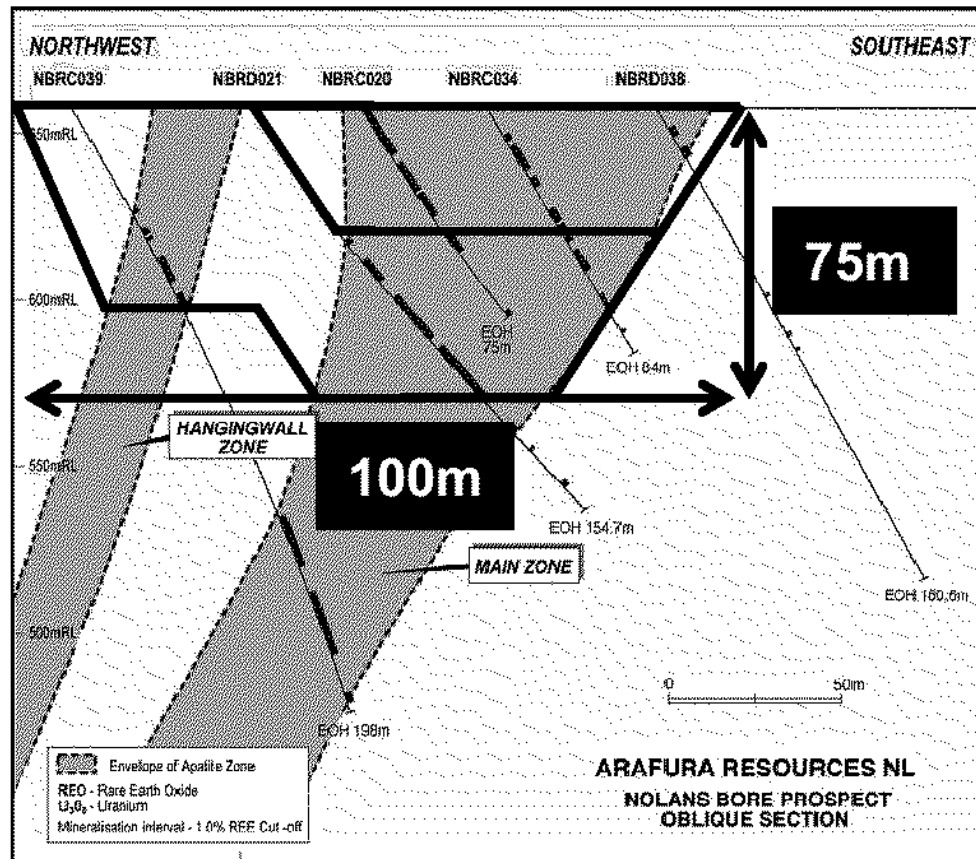
Not reported as a
resource

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Nolans Bore - Mining



- 3-4 months pa
- Shallow open cut
- 500,000 tpa
- Low strip ratio
- Low risk
- Very safe

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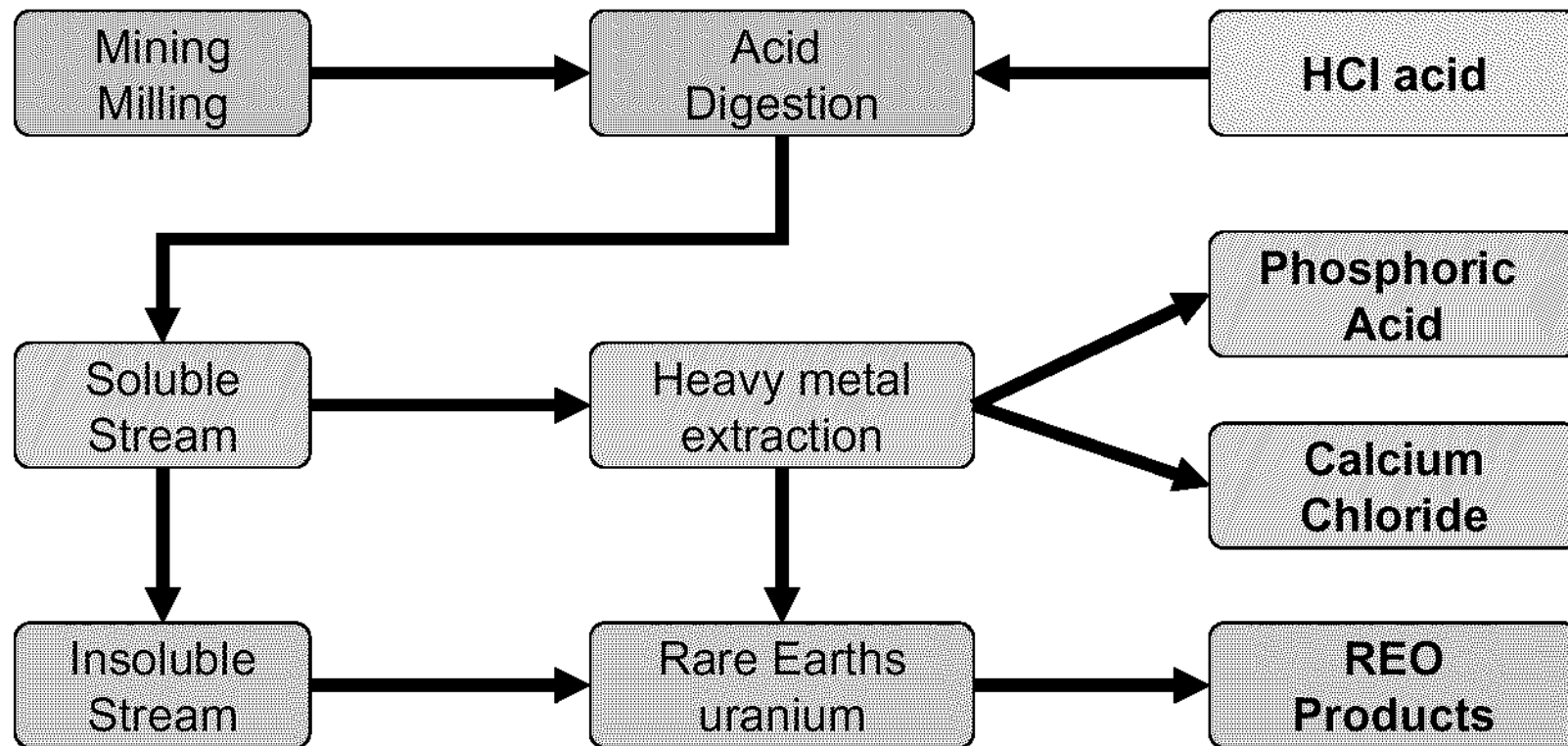
Nolans Bore - Processing

- Crushing and grinding - 500,000 tpa
- Pre-leaching with hydrochloric acid
- Caustic cracking
- Precipitation
- Solvent extraction
- Waste management

Rare Earths
Powering Technology



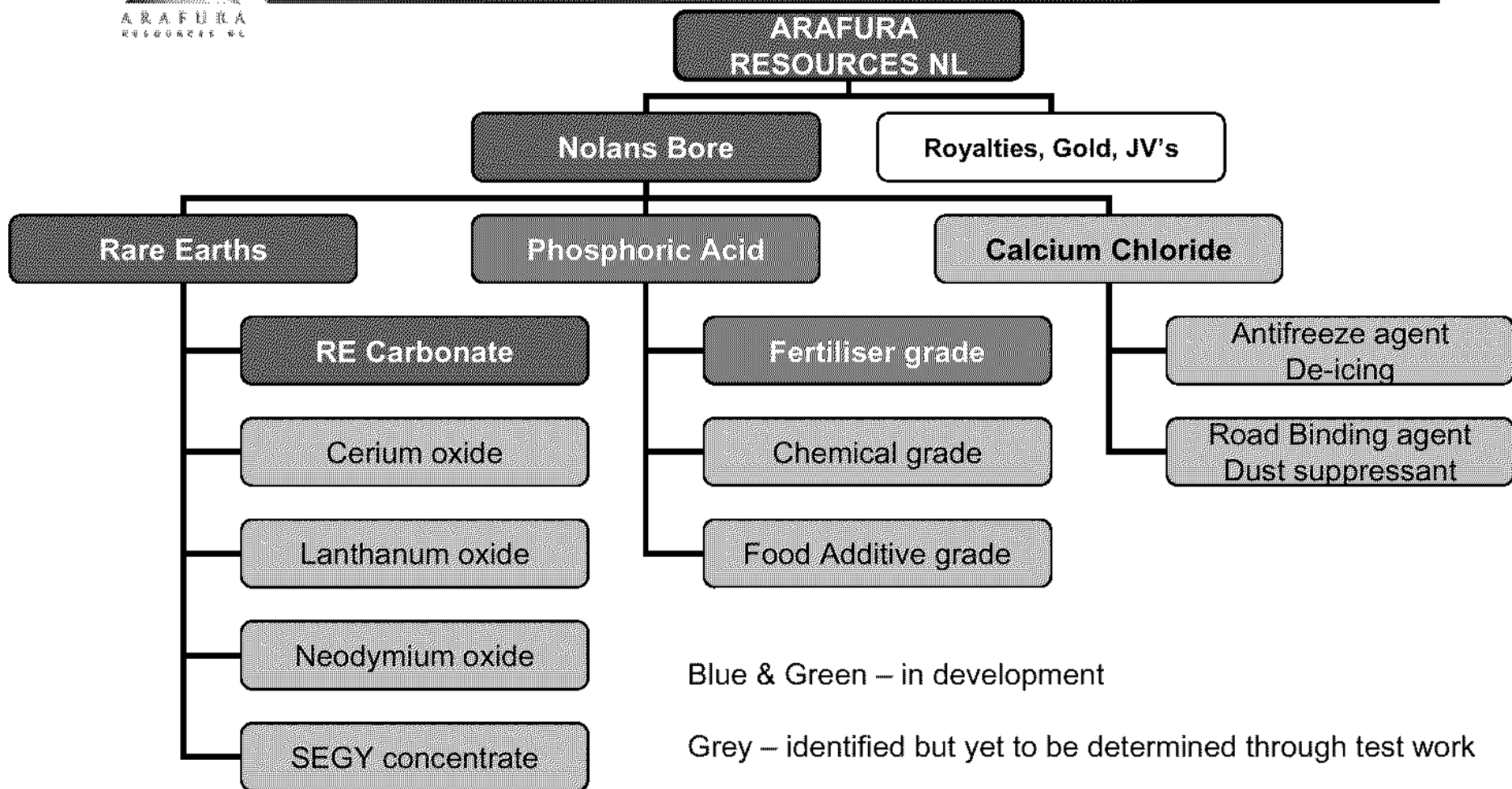
Nolans Bore – Process overview



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Powering Technology



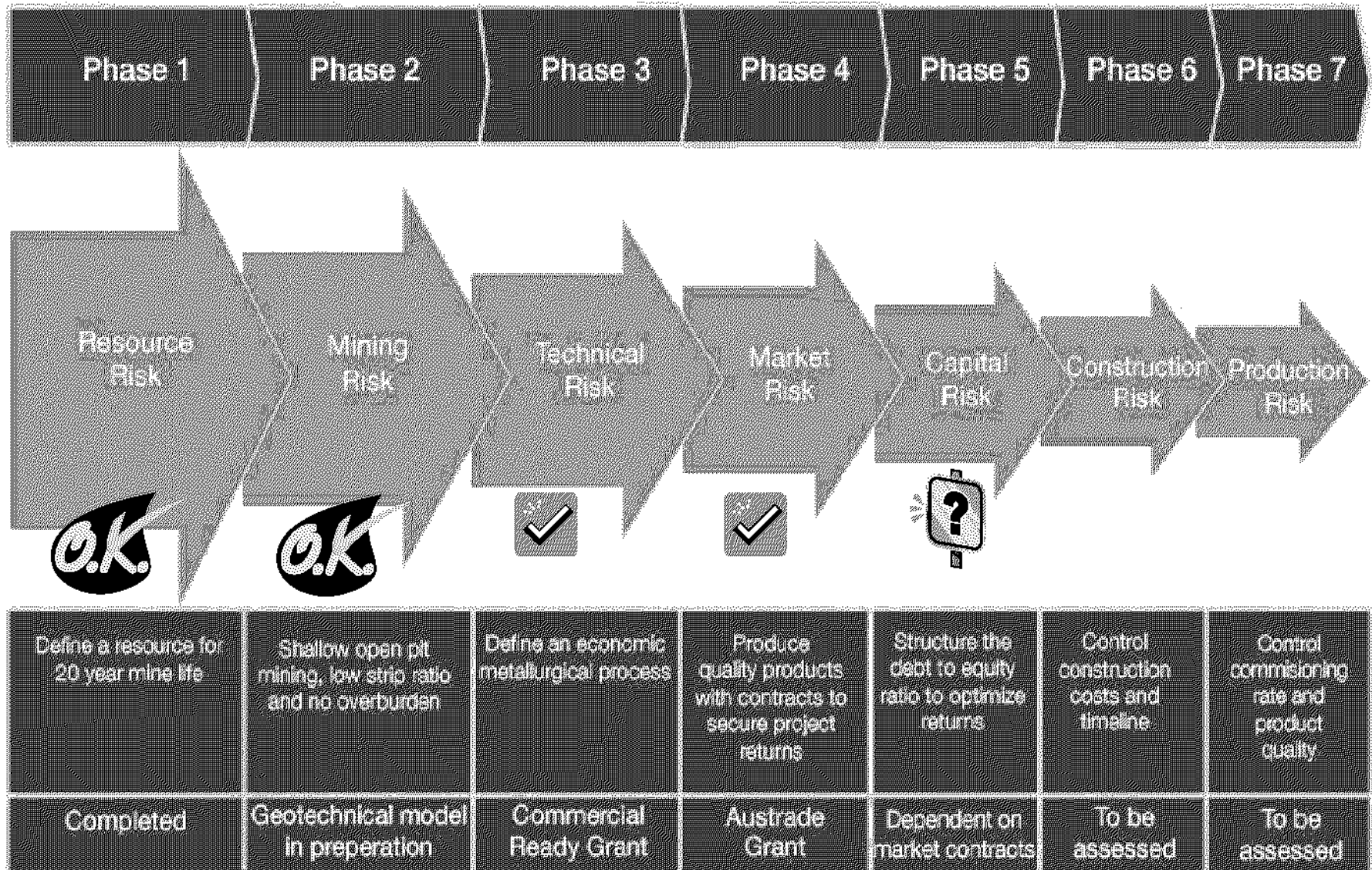
Target Products



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Phases and Types of Project Risk, Mitigating Strategies and Underlying Support





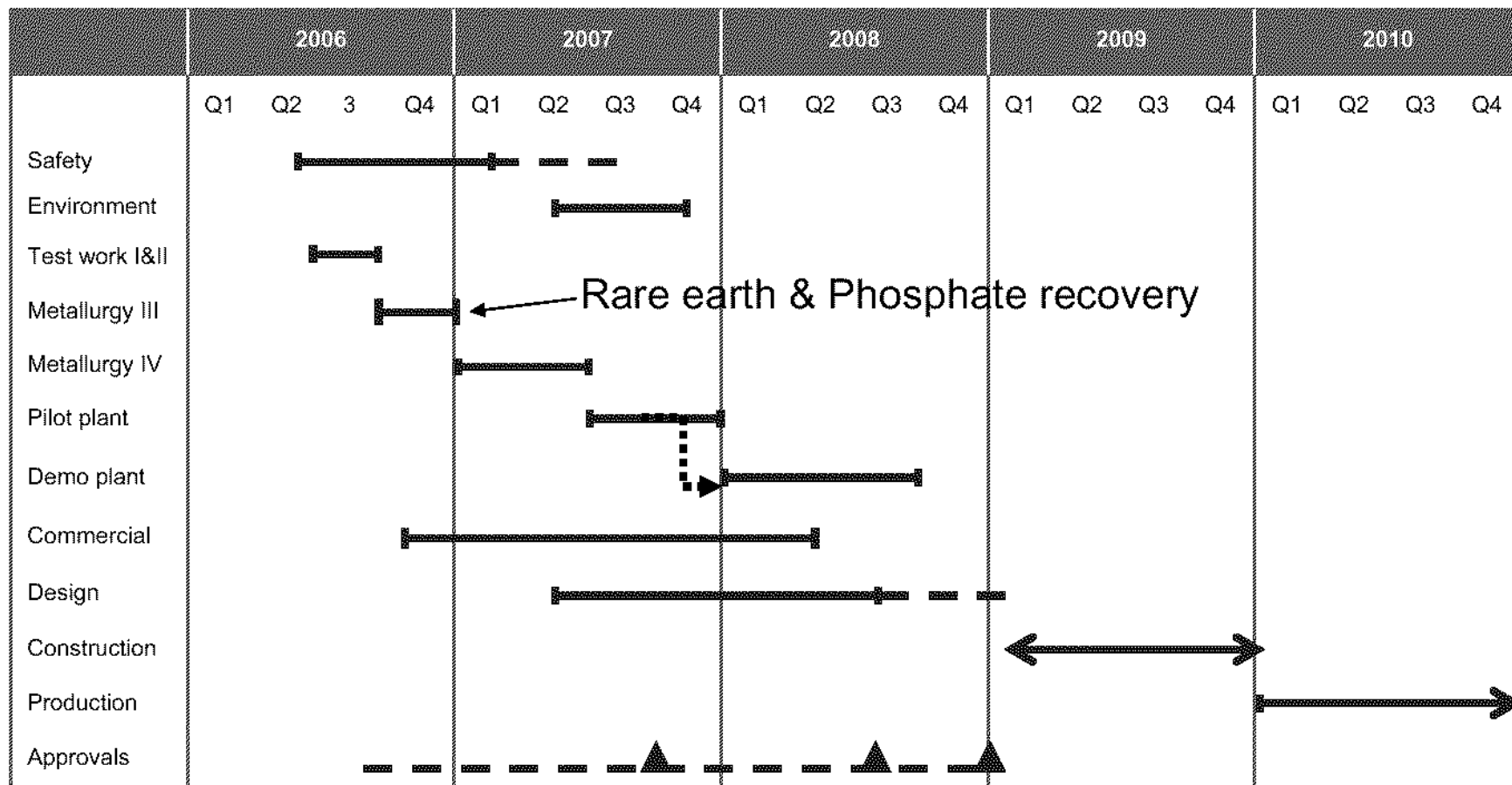
Nolans Bore - development stages

1. Environmental studies
2. Metallurgical testing and pilot plant
3. Marketing negotiations
4. Engineering design
5. Government and regulatory approvals
6. Construction / commissioning
7. Production

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Development Timeline



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Powering Technology



Arafura – the RE Industry

Demand

- To grow on average at least 10% to 15% per annum
- Demand driven by Automotive industry and Electronics

Supply

- Chinese resource conservation strategies will limit raw material supply
- Industry reforms in place
- Export quoter system (40,000 tpa) will restrict global product supply

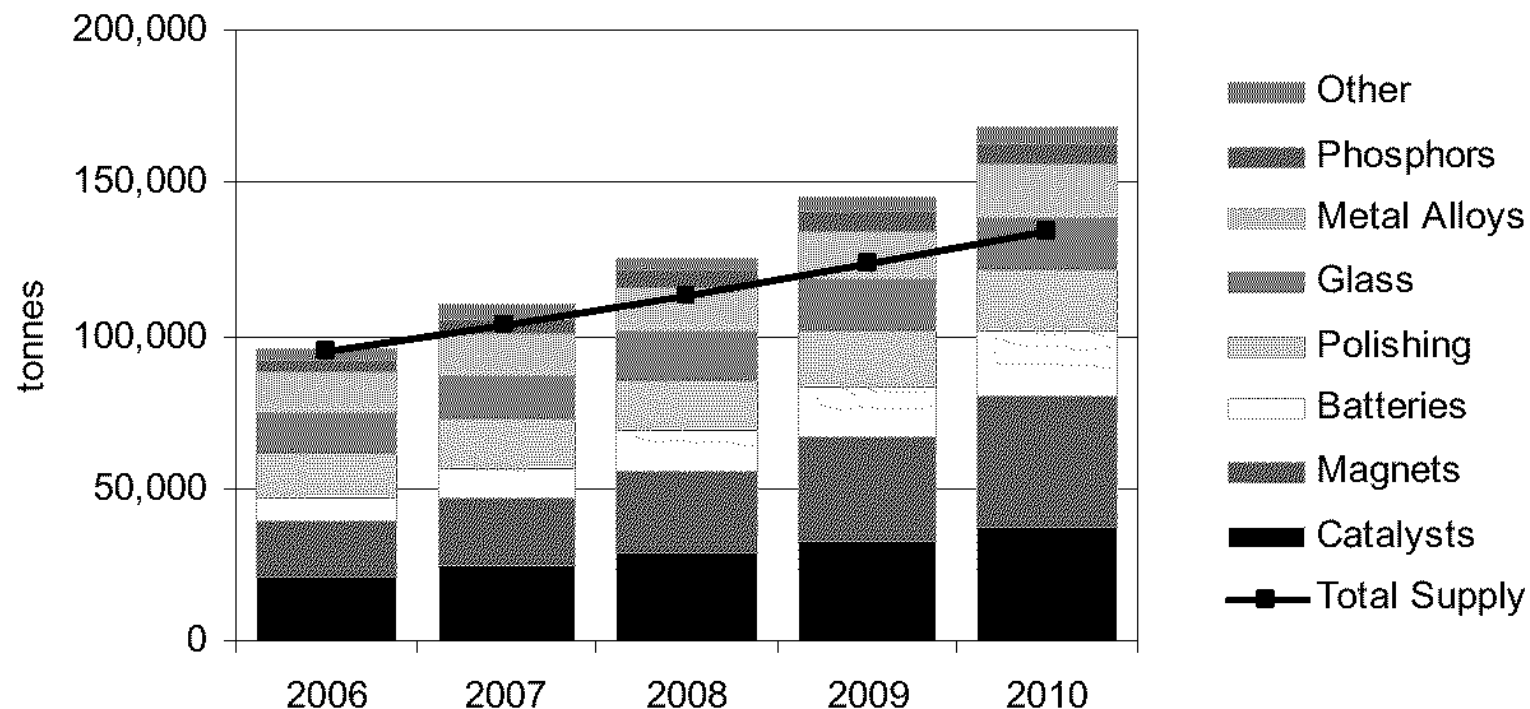
Price

- Prices have and will continue to increase strongly

Rare Earths
Powering Technology

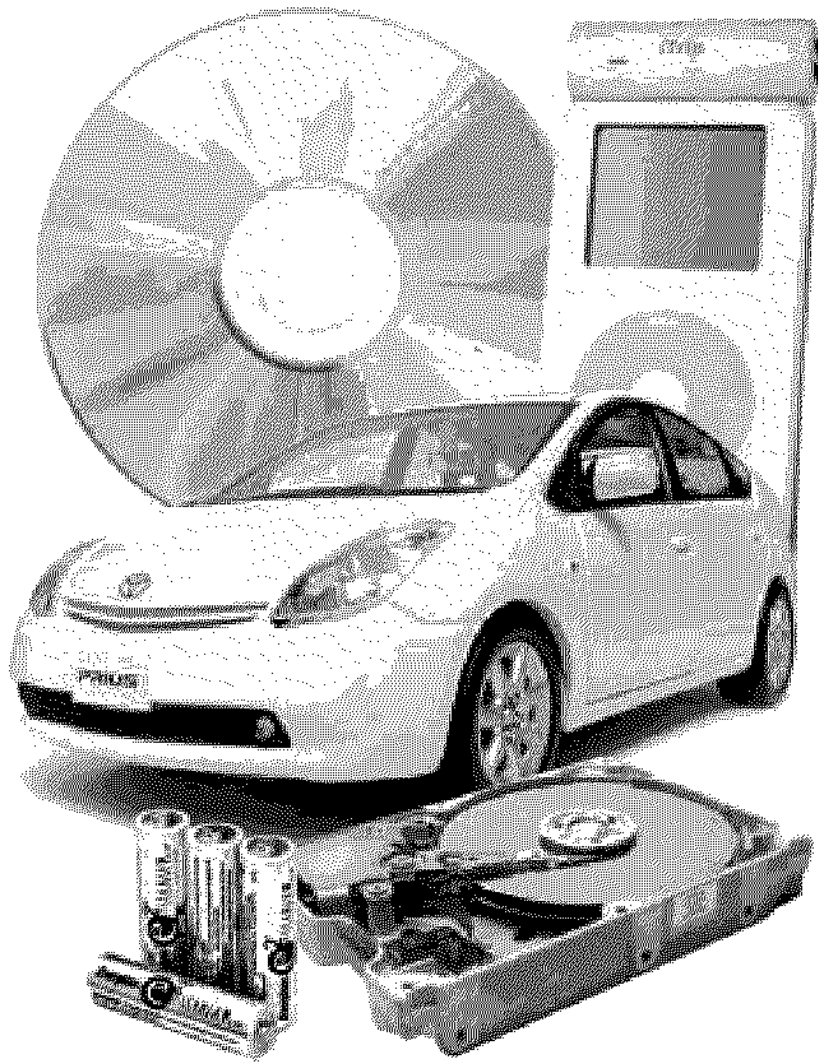


Rare Earth Market Growth



The supply / demand differential

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Rare Earth Products

Hybrid cars

Plasma TV

I-Pods

Disc drives

Magnets

Automotive catalysts

Petroleum refining

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Typical product prices.....2006

RE carbonate 50%

A\$5,000 per tonne

Neodymium 98%

A\$24,000 per tonne

Pr 98%

A\$18,000 per tonne

Ce+La 98%

A\$2,700 per tonne

Dysprosium 98%

A\$18,000 per tonne

Europium 98%

A\$300,000 per tonne

Phosphoric acid

A\$500-550 /tonne

Calcium Chloride

A\$300-350 /tonne

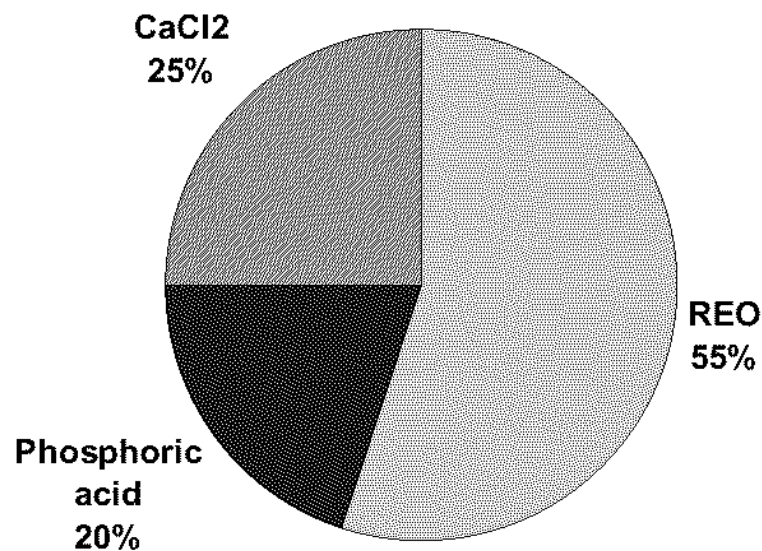
US\$/A\$ = 0.75

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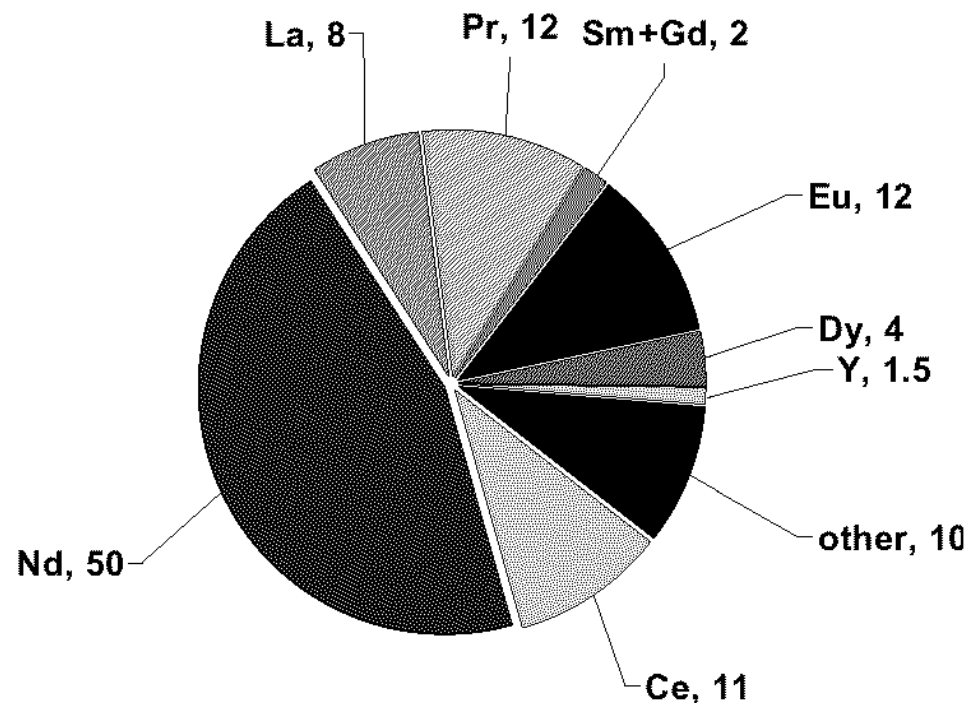


Nolans Bore – Production Revenue

Revenue



REO Rev \$m in 10,000t



Based on the sale of 99% grade separated rare earth products. REO carbonate is 50% grade and commands about 60% the sale price of 99% material

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Resources for the future



Nolans Bore

- A resource supporting a long mine life
- Multiple products
 - Rare earths
 - Phosphoric acid
 - Calcium Chloride
 - Uranium...Thorium
- Burgeoning industry
- Close to existing infrastructure
- Government support for development

Rare Earths
Powering Technology



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Nolans Bore

Rare Earths

Phosphoric acid

Calcium Chloride

Uranium Oxide

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Resources for the future