Corporate Presentation

Development Commenced

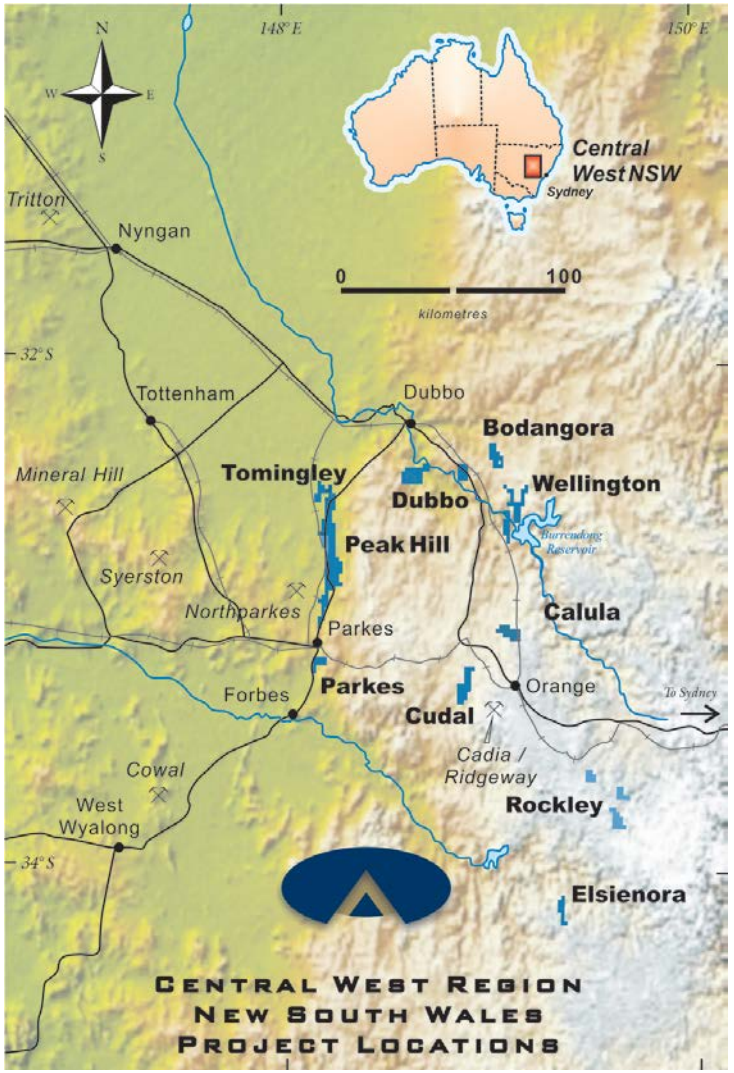
First Cash Flows Early 2014

September 2013

ALKANE
RESOURCES LTD

Corporate Profile

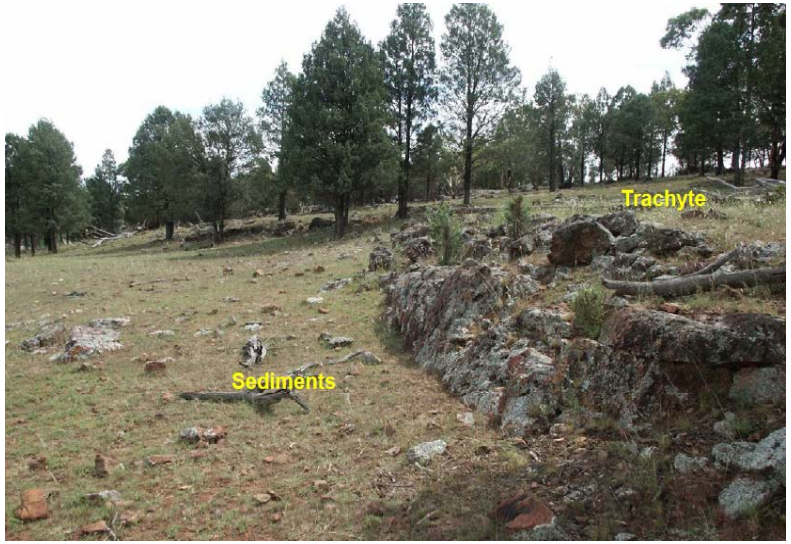
- Listed on ASX since 1969, also listed on OTCQX (US)
- Market cap $140M
- 6,100 shareholders (85% Australian)
- Multi commodity explorer, miner and developer focused on Central West of NSW
- Active in region for more than 20 years
- Developed Peak Hill Gold Mine in 1996, operated to 2005
- Tomingley Gold Mine construction underway, first gold production early 2014
- World-class Dubbo Zirconia Project (DZP) feasibility completed; environmental assessment and financing in progress
- Successful ongoing exploration



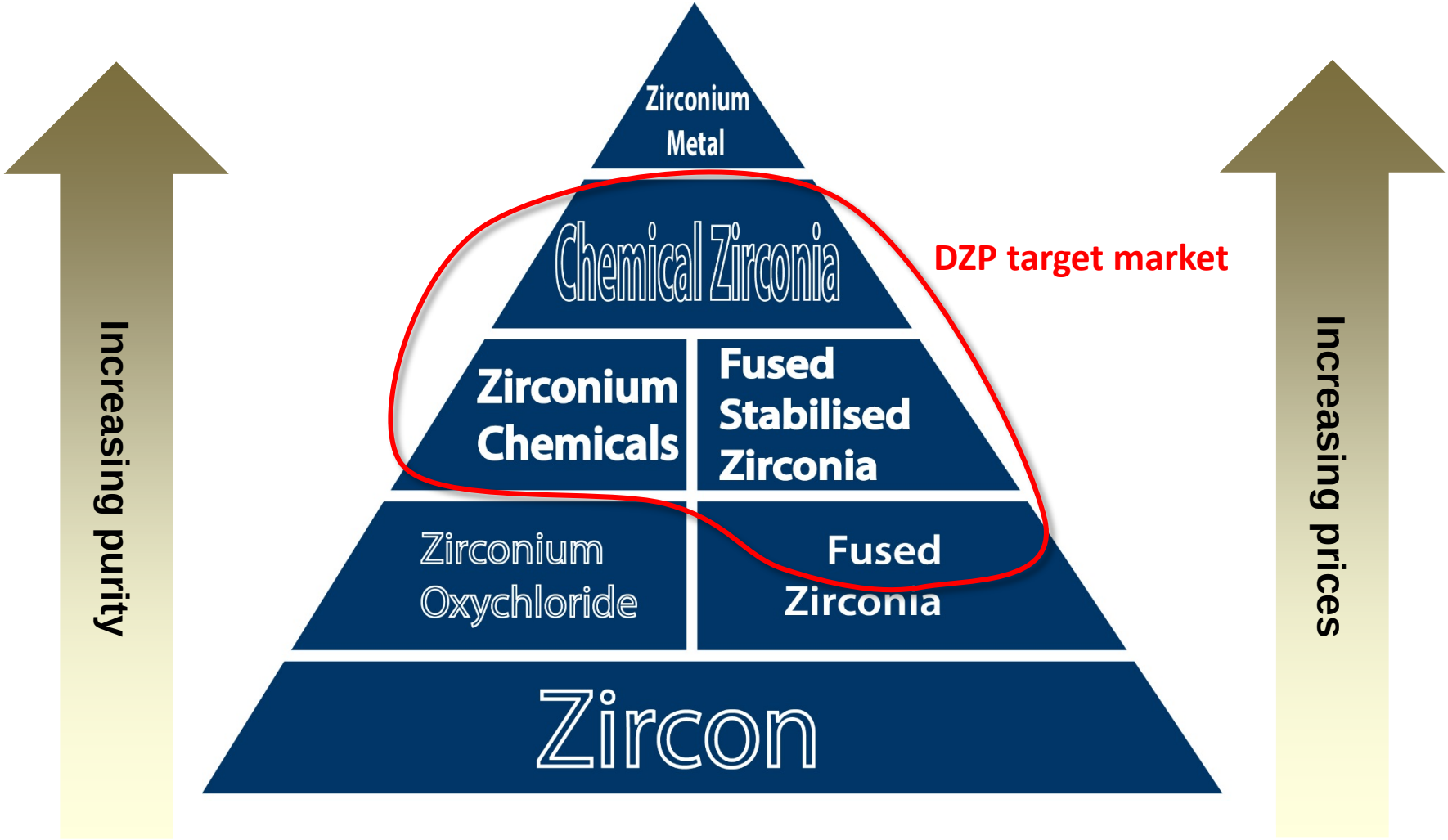
The Dubbo Zirconia Project

- A very large* polymetallic resource of the metals zirconium (hafnium), niobium (tantalum), yttrium and rare earths
- Important and strategic metal mix, including 25% heavy rare earth
- Open pit life of at least 70 years
- Demonstrated flow sheet with pilot plant and products for market evaluation
- Robust technical and financial feasibility completed
- Strong market interest in products
- Growing and diverse markets

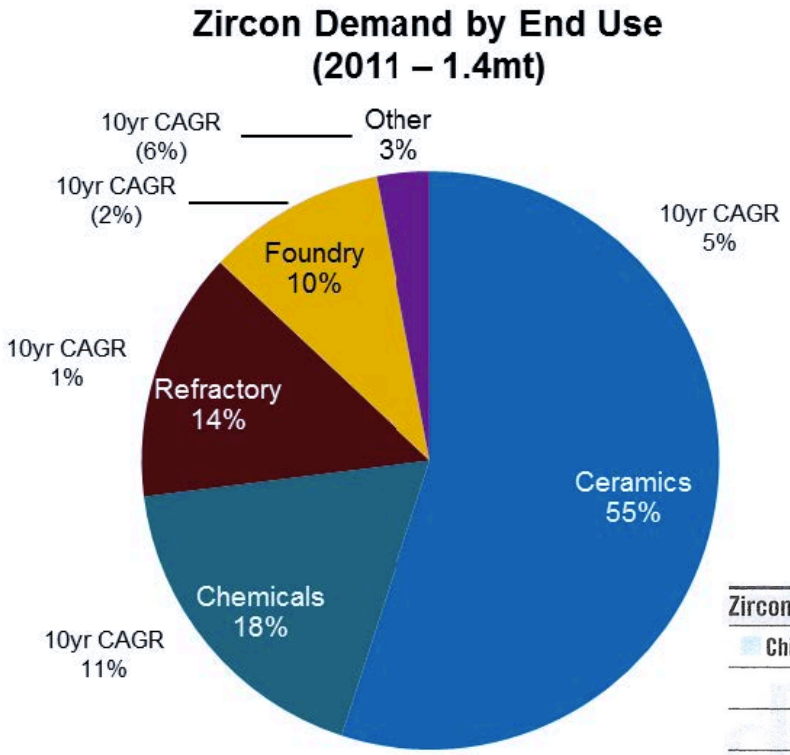
*resource and reserve statement appended

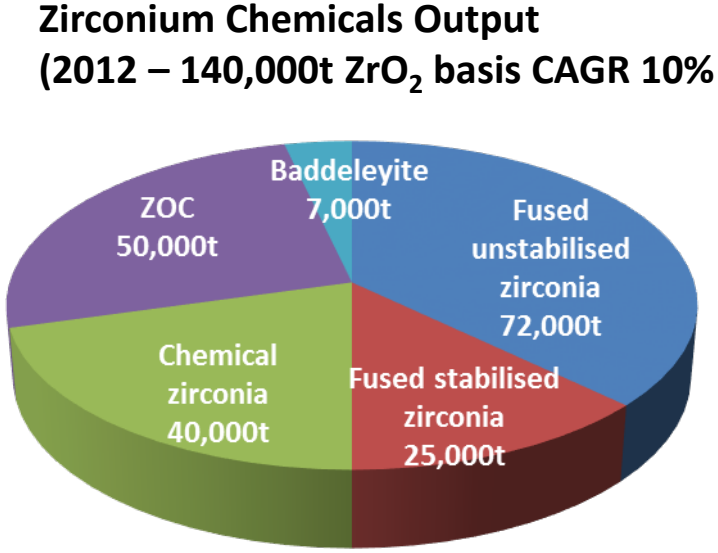


Zirconium Industry

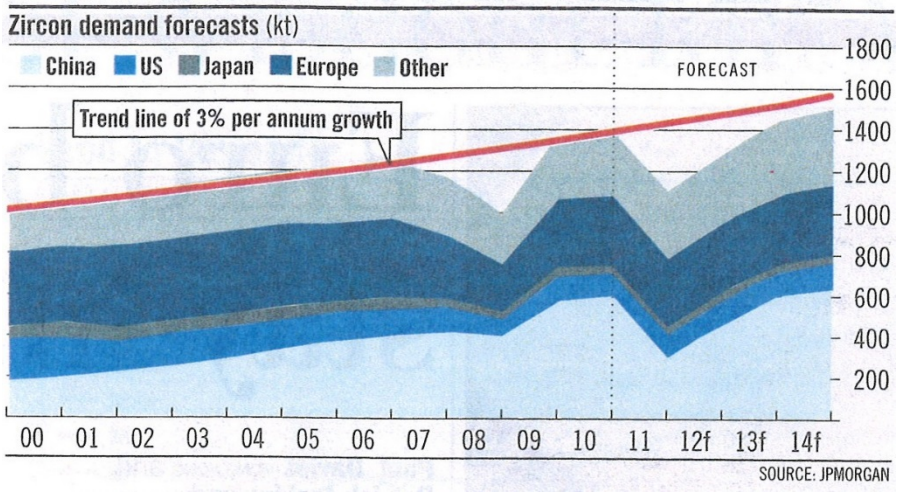


Zirconium Industry





- Mid 2013 consumer zircon inventories running down
- Market expected to move back into under supply 2015 - 2016
- Prices starting to recover



Source: Iluka, TCMS, JP Morgan

Zirconium Applications

Australian Zirconia Ltd
(A subsidiary of Alkane Resources Ltd)

Applications for Zirconium Materials

Electronics
-Dielectrics
-Piezoelectrics
-Multi layer capacitors
-Oxygen sensors
-Sonar

Ceramics
-Ceramic colours
-Enamels
-Opacifiers

Catalysts
-Automotive
-Gasoline & diesel
-Industrial pollution
-Petroleum refining control
-Fuel cells

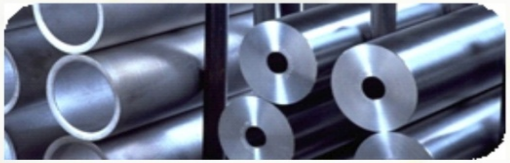
Glass
-Polishing Compounds
-Optical glass
-Cubic zirconia

Zr

Wear
-Engineering ceramics
-Thermal Barrier coatings
-Milling media
-Bioceramic hips/teeth
-Automotive brake pads
-Fibre optic ferrules

Chemicals
-Paper coatings/binders
-Metal treatments
-Antiperspirants
-Pigment coatings
-Printing inks
-Sorbents-carbon capture
-Water treatment
-Paint drying agents
-Waterproofing agents
-Flame retardants

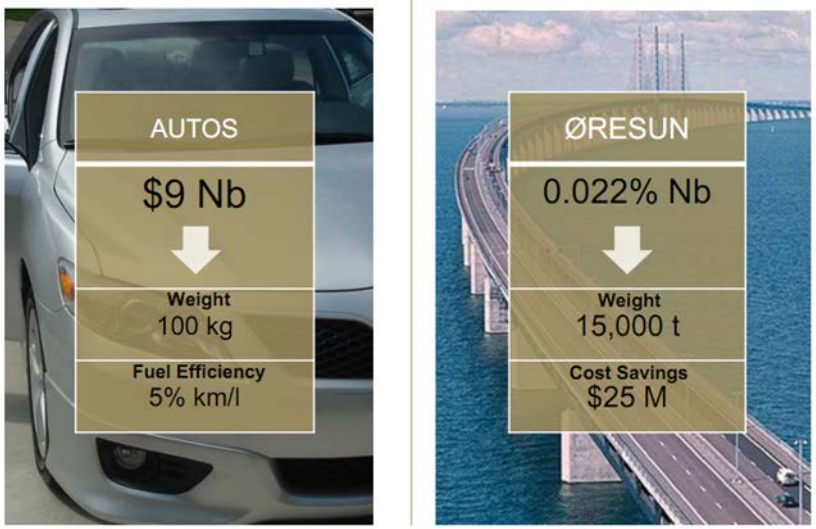
Refractories
-Glass tank refractories
-Steel making refractories
-Flow control nozzles

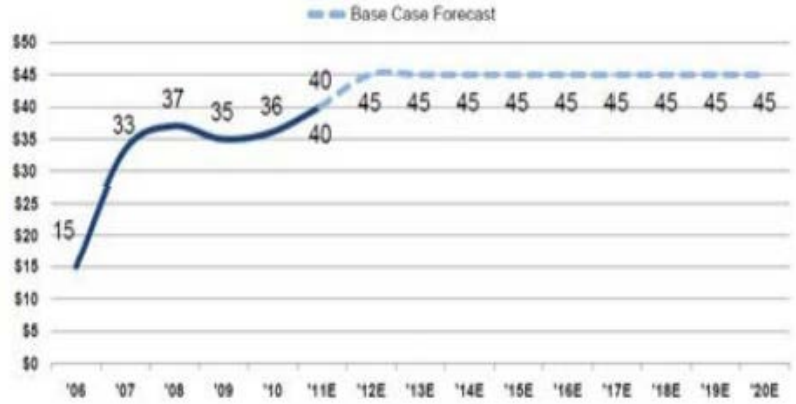


Metal
-Nuclear fuel rods
-Industrial components
-Zircalloys- nuclear cladding

Sources: General Electric, MEL Chemicals, Ferro Corporation, Areva, Zircoa, PPG, Murata, Molycorp

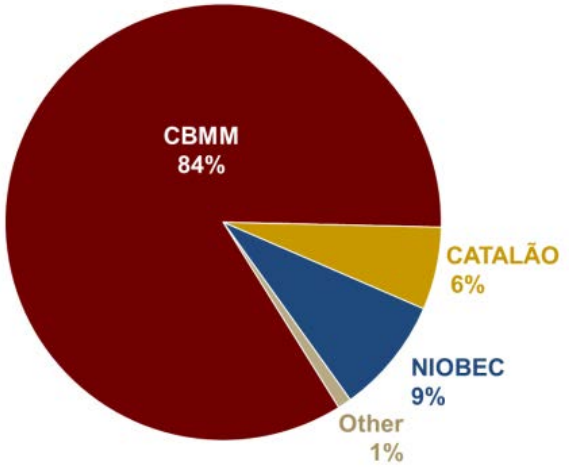
Niobium Industry/Price





- CBMM (Brazil) dominates the industry 85% (80,000t) of world production in 2012
- Early 2011 a Japanese Korean consortium acquired 15% of CBMM for US$1.95B
- September 2011 a Chinese consortium acquired 15% of CBMM for US$1.95B
- Price very stable at US$40-45/kg (Nb in FeNb)

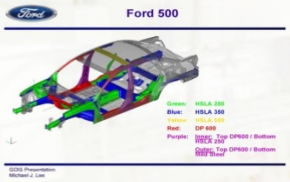
Niobium market supply

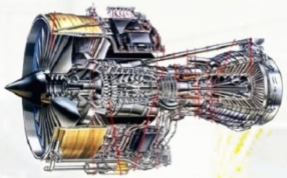


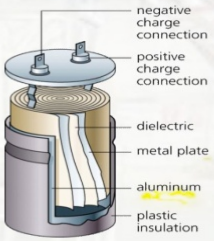
Niobium Applications

AUSTRALIAN ZIRCONIA LTD
(A SUBSIDIARY OF ALKANE RESOURCES LTD)

APPLICATIONS FOR NIOBIUM MATERIALS







Special Steels – HSLA*
- Weight reduction for fuel efficiency
- Pipelines
- Bridges

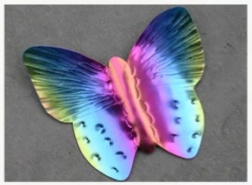
Alloys
- turbine blades

Capacitors
-Electric motors
-Mobile electronics

Glass
- Camera lens and TV glass
- Optical glass

Nb

Jewellery

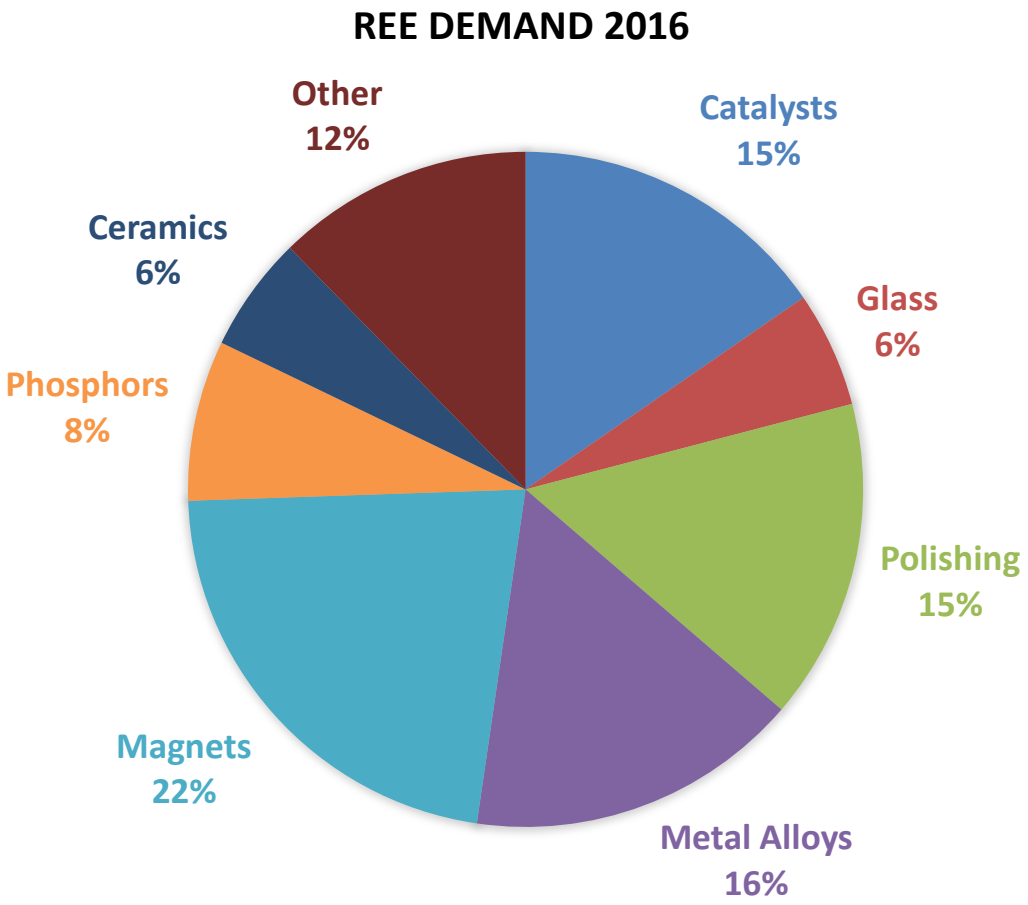


Superconducting Magnets
- Particle accelerators
- Maglev transport
- Magnetic Resonance Imaging

Coinage

Sources: Ford MC, CBMM, Google images
** (High Strength Low Alloy)*

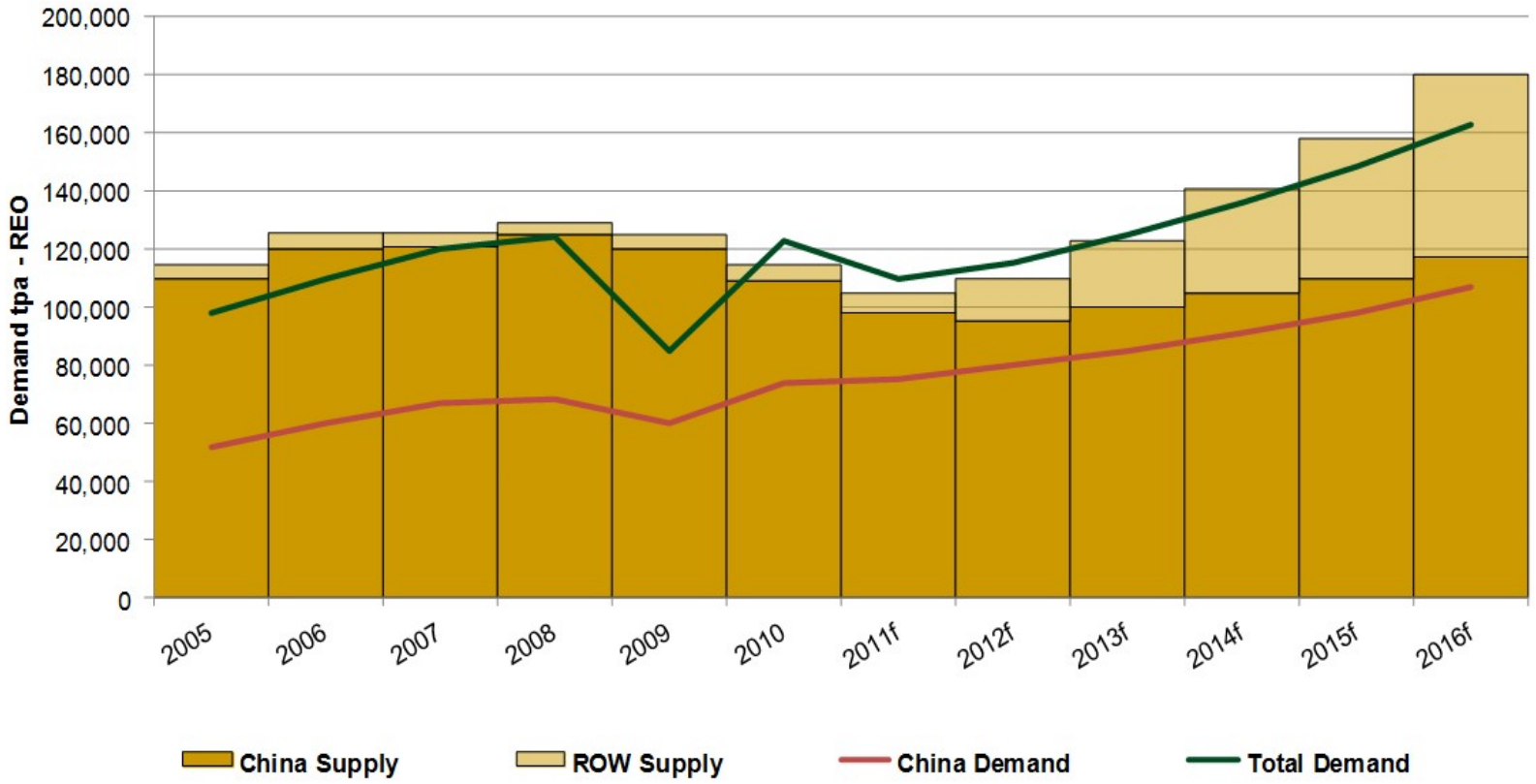
REE Industry



- Total REE consumption 2012 115,000t with annual growth estimated at 5-10% to be 162,000t in 2016
- China produces about 90% of world supply and consumed about 65%, with Japan 15% and the US 14%
- The REE industry is "imbalanced" with potential oversupply of light rare earths (Ce & La) and undersupply of heavy rare earths and neodymium
- Neodymium, europium, terbium, dysprosium and yttrium are considered to be in critical supply through to at least 2020
- Prices for Pr, Nd, Tb, Dy have definitely improved and Y is showing early signs of pickup

Source: IMCOA

REE Supply - Demand

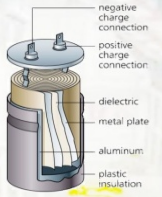


Rare Earth Applications

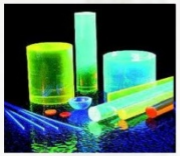
AUSTRALIAN ZIRCONIA LTD
(A SUBSIDIARY OF ALKANE RESOURCES LTD)

APPLICATIONS FOR RARE EARTH MATERIALS

Electronics
-Display phosphors (CRT, PDP, LCD)
-Medical imaging phosphors
-Lasers
-Fibre Optics
-Optical temperature senors



Ceramics
-Capacitors
-Sensors
-Colourants
-Scintillators
-Enamels
-Opacifiers



Catalysts
-Automotive catalytic converter
-Petroleum refining
-Diesel additives
-Chemical processing
-Industrial pollution scrubber

Rare Earths

Glass
-Optical glass
-Polishing compounds
-Thermal control mirrors
-Colourisers / Decolourisers
-Cubic zirconia

Other
-Fluorescent lighting
-Water Treatment
-Pigments
-Fertilizer
-Medical Tracers
-Coatings

Magnets
-Electric motors
-Disk drives
-Power generation
-Actuators
-Microphones and Speakers
-Magnetic Resonance Imaging (MRI)
-Anti-lock brake systems
-Electric drive & propulsion
-Magnetic storage disk
-Microwave power tubes
-Magnetocaloric alloys
-Magnetostrictive alloys

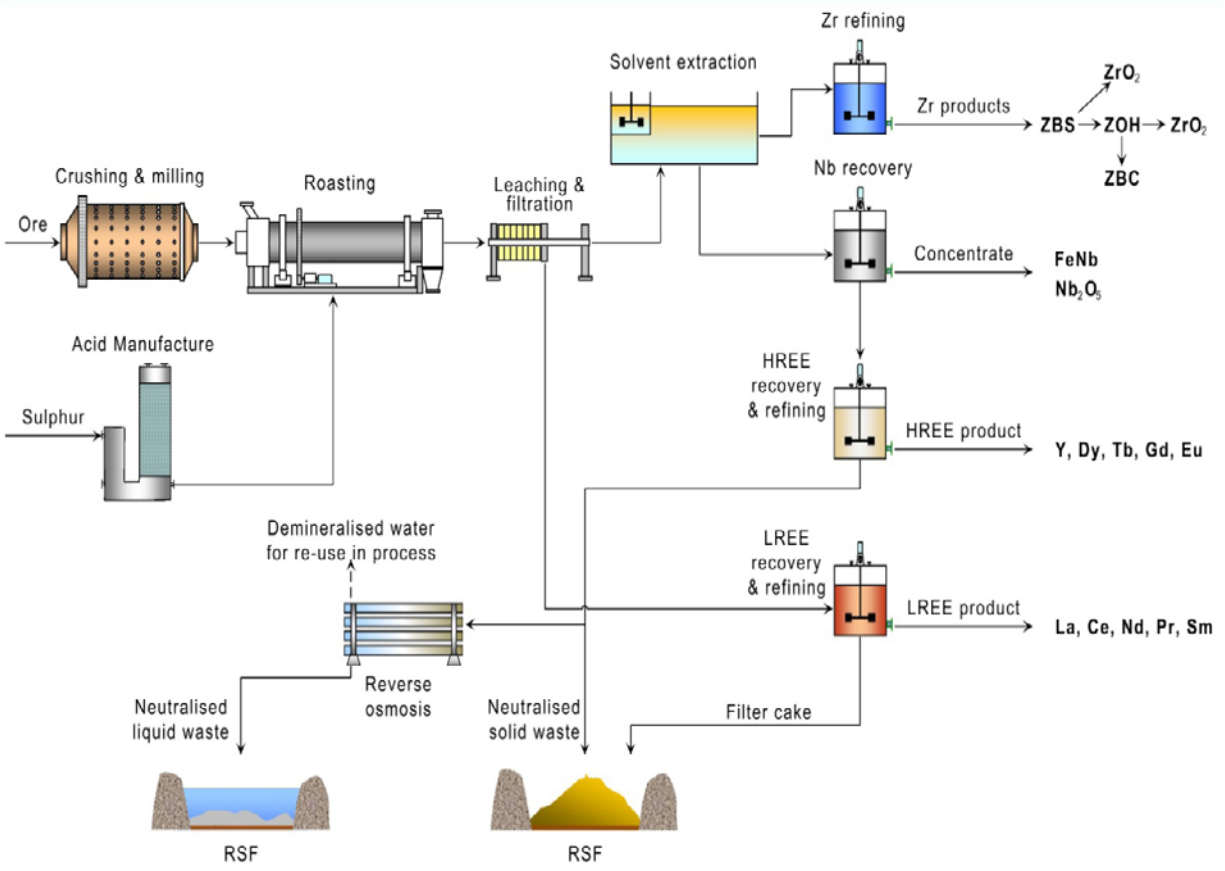
Metal Alloys
-Hydrogen storage (NiMH batteries, Fuel cells)
-Superalloys
-Aluminum / Magnesium
-Lighter flints

Sources: Google images, GM, Acer

DZP Process Flow Sheet

- Demonstration Pilot Plant – established 2008
- ANSTO – Aust. Nuclear Science & Technology Organisation
- Process – unique & advanced
- Optimization – ongoing

- Simple open cut mining operation
- Crushing and grinding
- Sulphuric acid leach whole of ore
- Solvent extraction, separation & refining
- Chemical precipitation
- Zirconium products
- Niobium products
- Heavy RE product
- Light RE product



DZP Demonstration Pilot Plant

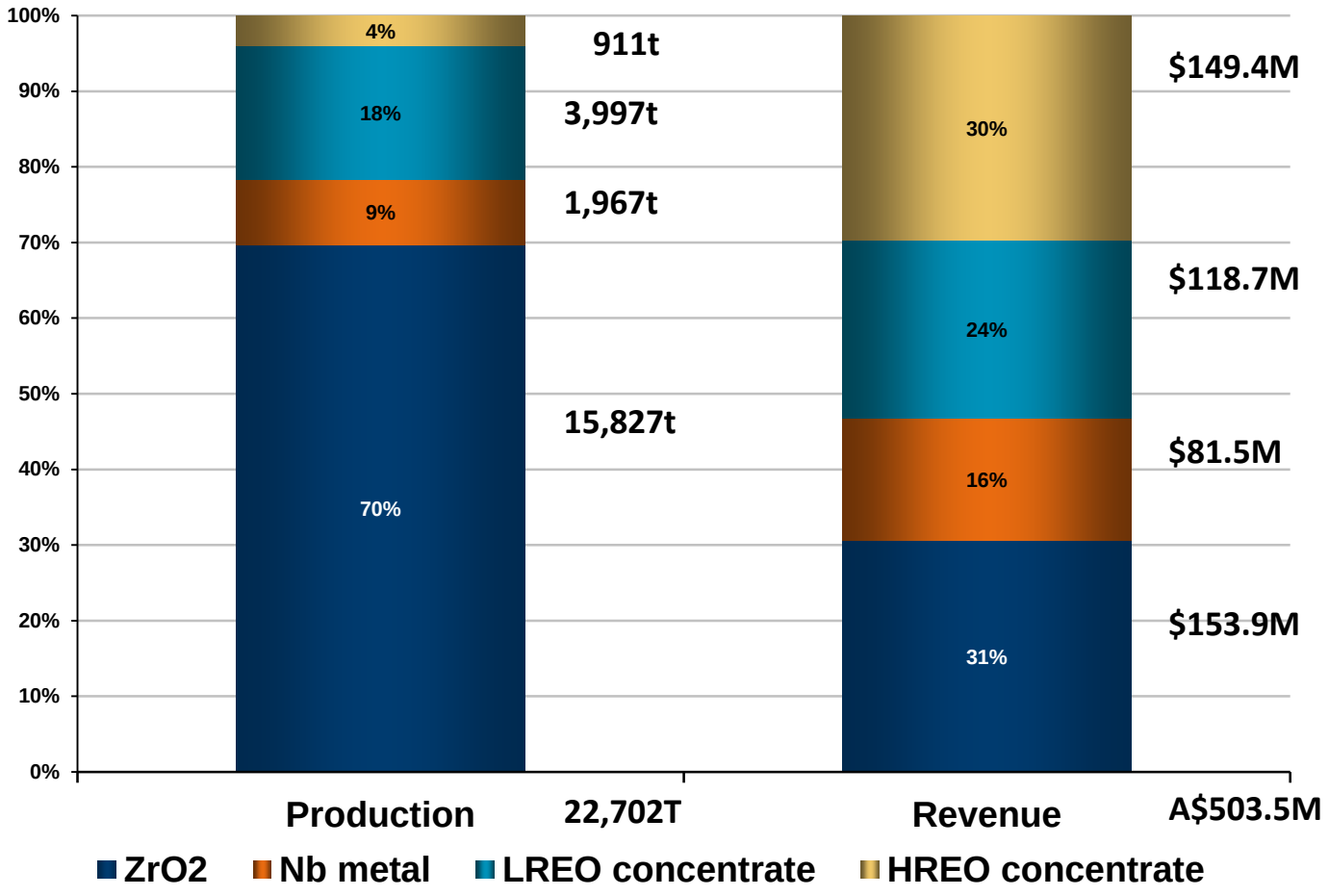
DPP Filtration, PLS, SX, Zr and Nb recovery

Y and HREE refining and recovery

Zirconium refining and precipitation

Reverse osmosis and water recycle

DZP Product Output



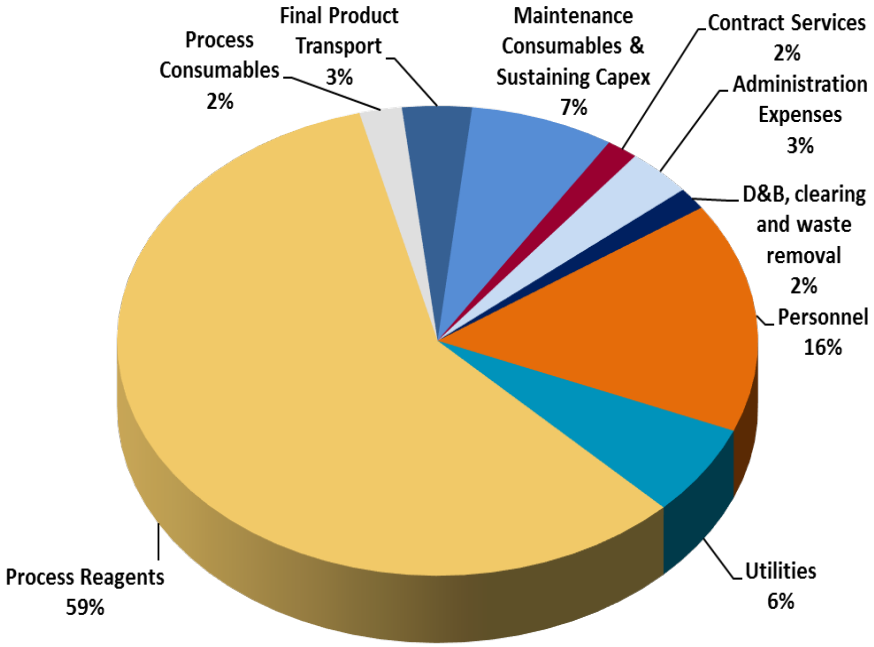
DZP Pathway to Market

AZL MoU's and Agreements to secure 100% of output

Zirconium (Zr)	• Leading chemical company to develop applications and markets in Asia for zirconia produced by DZP • European manufacturer/trading company to market DZP products in Europe and North America • Ceramic colours laboratory developed in Perth produce test products for ceramic tile industry
Niobium (Nb)	• JV with European Treibacher Industrie AG to produce and market ferro-niobium • Test work for tantalum recovery
Light rare earths Heavy rare earths	• Japan's Shin-Etsu Chemical toll treatment JV for separation and sale

DZP Operating Costs

Annual operation costs at 1Mtpa steady state ~A$214M



- Polymetallic deposit and integrated flow sheet makes it difficult to assign costs to specific products
- For total output, cost ~US$8.80/kg
- On a proportional revenue basis:

Zirconium	~US$ 3.90/kg
Niobium	~US$16.20/kg
LREE	~US$11.45/kg
HREE	~US$68.66/kg

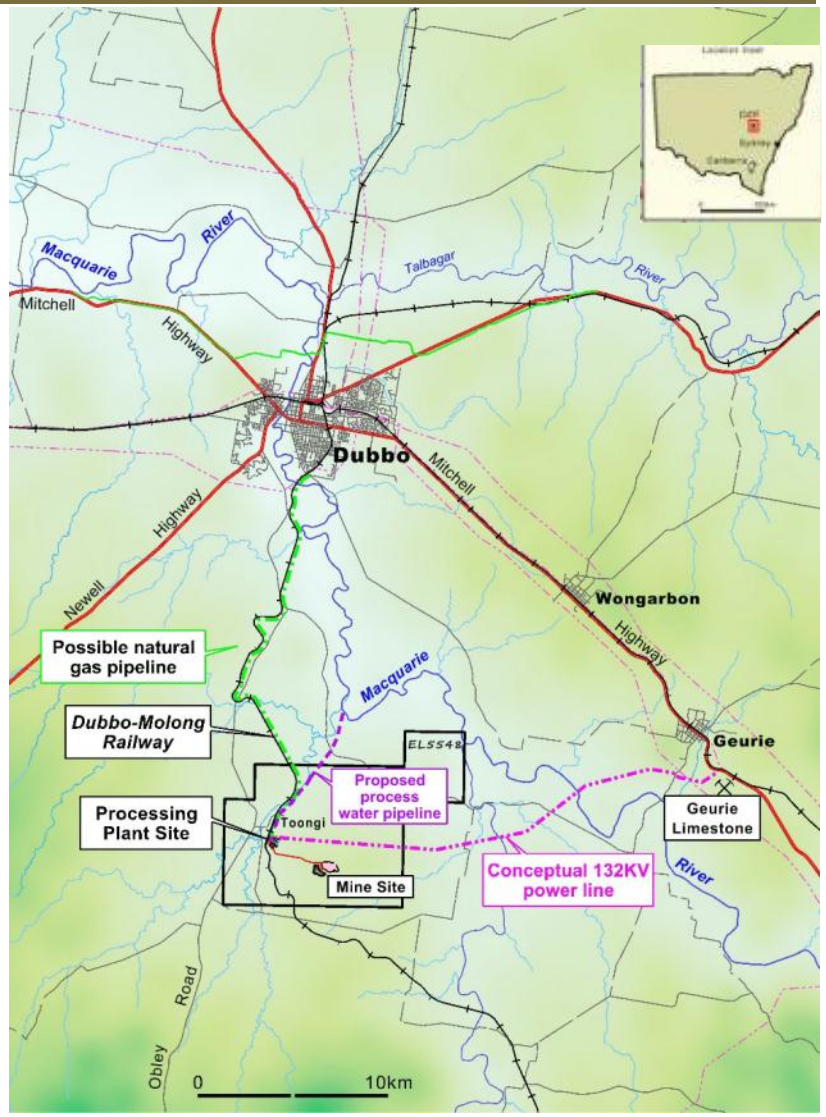
DZP Feasibility Study

DUBBO ZIRCONIA PROJECT Financial Summary for 20 year life in A$	
Project Capacity	1,000,000 tonnes pa
Capex – Plant	$396.8M
Sulphuric Acid Plant	$116.6M
Infrastructure + Owners	$253.4M
SUB TOTAL	$766.8M
EPCM	$63.5M
Contingency (20%)	$166.1M
TOTAL	$996.4M
Annual Revenue	$503.5M
Annual Operating Costs	$213.5M
Annual EBITDA	$290.0M
IRR*	19.3%
NPV*	$1,235M

* 20 year life, pre-tax, 8% discount rate

DZP Infrastructure

- 20km from Dubbo (43,000 pop)
- Access to skilled local labour
- 250 permanent workforce
- Access to State power and gas
- Land and water being secured
- Waste to be stored onsite
- EIS lodged June 2013
- Production expected Q1 2016



DZP Financing

- $1 billion DZP finance package being arranged by:
  - Credit Suisse (Australia)
  - Sumitomo Mitsui Banking Corporation
  - Petra Capital

- Finance sources:
  - Possible sale of a strategic minority stake in DZP
  - International Government funding (ECA)
  - Commercial debt facility
  - Public equity raising

- 12 months timeline

- Coincides with final project approvals, allowing construction to commence in H2 2014.

DZP Major Milestones

Major Milestones	2013	2014	2015	2016
Environmental Impact Statement				
Project Approval Process				
Project Financing Program				
EPC / EPCM tender → award				
Detailed design / Long lead orders				
CONSTRUCTION				
PRODUCTION				

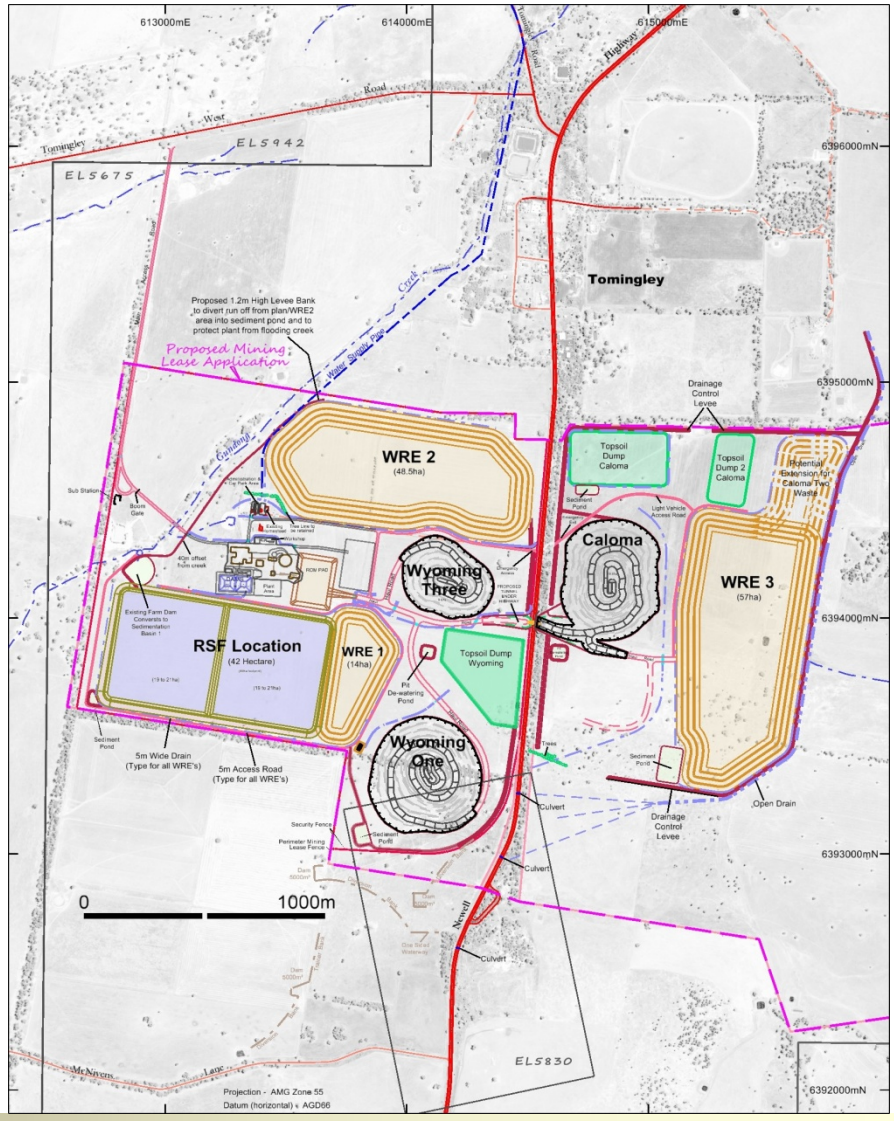
Tomingley Gold Project

Base case statistics

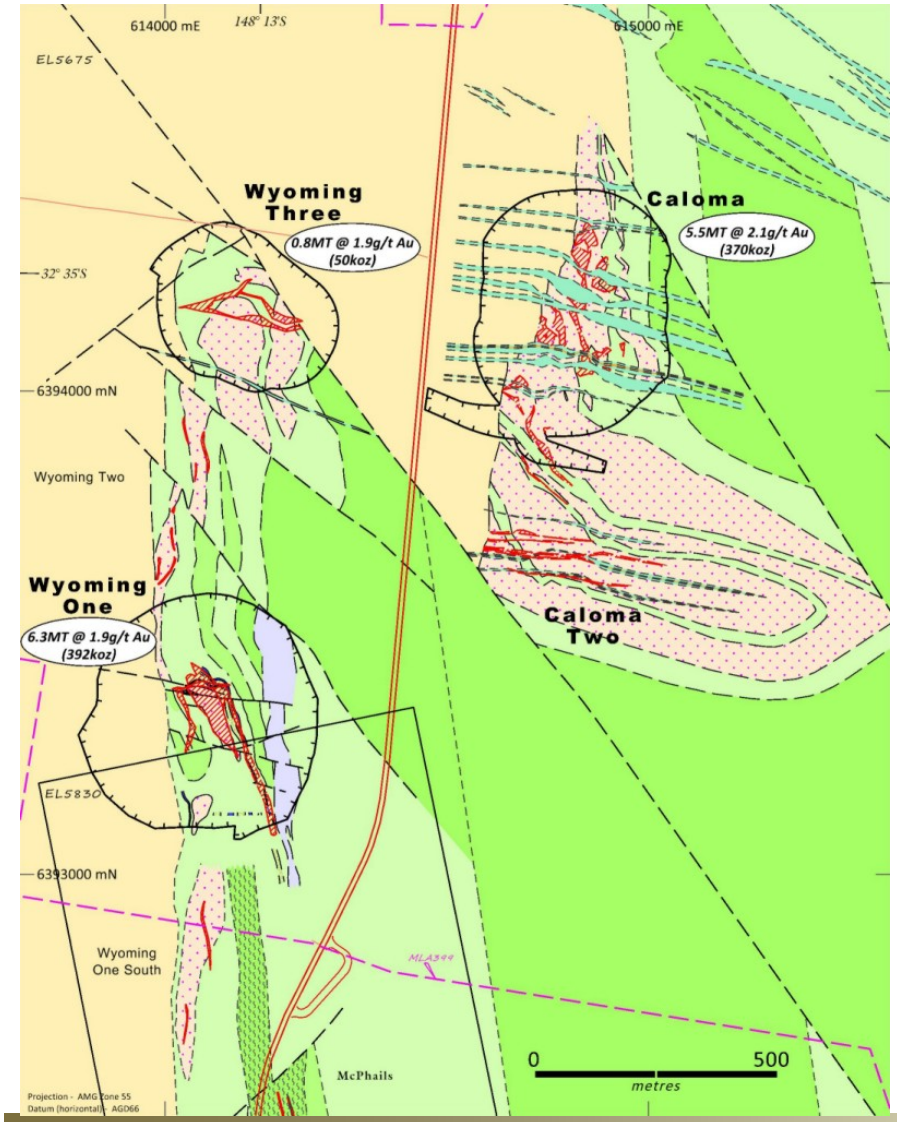
- Project approval by NSW Department of Planning and Infrastructure late July 2012. Mining Lease approved February 2013

- Resource – 12.6 Mt @ 2.0g/t (812,000oz)
- CAPEX – A$107M
- Throughput – 1.0Mtpa
- Head Grade – 2.00g/t
- Recoveries – 93%
- Gold Production – 400,000oz over base case life
- C3 Cash operating costs – ~$1,000/oz
- EBITDA - $170M (current spot at $1,450/oz)
- Life – 7.5years (targeting +10 years)
- Mine method – open cut & underground
- Caloma Two resource estimate

- Commissioning anticipated early 2014



TGP Resource Expansion



Geological Summary – Wyoming / Caloma

- *Pelitic Sediments*
- *Feldspar porphyry*
- *Volcaniclastic sediments*
- *Graphitic mudstone*
- *Volcaniclastic conglomerate*
- *Epidote altered volcanics*
- *Chlorite-talc schist*
- *Andesitic volcanics*
- *Mineralisation*

Additional Resource Potential

Caloma Two open pit and underground

(Recent drill intercept 9m @ 110g/t Au)

Expand Wyoming One underground

Caloma underground

Myalls underground

Wyoming Two and Three underground

McLeans

TGP Construction

TGP CIL Plant

Conclusion

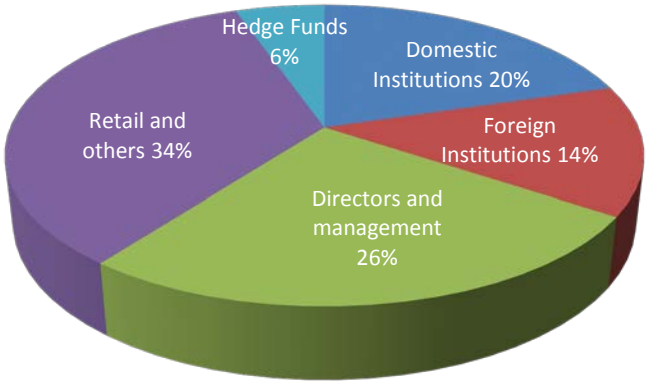
- **Alkane transformation underway – long term investment opportunity**
- **Development strategy of multi-commodity operations in tight geographic location**
- **Substantial emerging cash flow – ~A$200 - 275Mpa after 2016**
- **Aspects of upside**
  - Longer mine life at TGP and DZP
  - Higher recoveries from DZP
  - Potential recovery and sale of tantalum, not in DFS
  - Positive outcomes from DZP joint ventures
  - Potential for exploration projects to convert to developments
- **Building capacity to pay dividends**

Financial and Equity

Financial

- Shares – 372,539,000
- Market Capitalisation – A$140M (14 Aug 2013)
- Cash & Investments – A$100M (30 June 2013)
- Debt – nil
- Share turnover – ~0.5M / day current
- 12 Month Low/High – A$0.25/$1.14
- Top 20 – 58%
- Codes – ALK (ASX)
  – ANLKY (OTCQX)

Equity



As at 30 April 2013

Major Shareholder: Abbotsleigh (Gandel Metals) – 25%
Fidelity Investments – 5%

Disclaimer

Disclaimer

This presentation contains certain forward looking statements and forecasts, including possible or assumed reserves and resources, production levels and rates, costs, prices, future performance or potential growth of Alkane Resources Ltd, industry growth or other trend projections. Such statements are not a guarantee of future performance and involve unknown risks and uncertainties, as well as other factors which are beyond the control of Alkane Resources Ltd. Actual results and developments may differ materially from those expressed of implied by these forward looking statements depending on a variety of factors. Nothing in this presentation should be construed as either an offer to sell or a solicitation of an offer to buy or sell securities.

This document has been prepared in accordance with the requirements of Australian securities laws, which may differ from the requirements of United States and other country securities laws. Unless otherwise indicated, all ore reserve and mineral resource estimates included or incorporated by reference in this document have been, and will be, prepared in accordance with the JORC classification system of the Australasian Institute of Mining, and Metallurgy and Australian Institute of Geosciences.

Competent Person

The information in this presentation that relates to mineral exploration, mineral resources and ore reserves is based on information compiled by Mr D I Chalmers, FAusIMM, FAIG, (director of the Company) has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Ian Chalmers consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.

27

Resource & Reserves: Dubbo + Galwadgere

Dubbo Zirconia Project – Mineral Resources

Toongi Deposit	Tonnage (Mt)	ZrO_2 (%)	HfO_2 (%)	Nb_2O_5 (%)	Ta_2O_5 (%)	Y_2O_3 (%)	REO (%)	U_3O_8 (%)
Measured	35.70	1.96	0.04	0.46	0.03	0.14	0.75	0.014
Inferred	37.50	1.96	0.04	0.46	0.03	0.14	0.75	0.014
Total	73.20	1.96	0.04	0.46	0.03	0.14	0.75	0.014

These Mineral Resources are based upon information compiled by Mr Terry Ransted MAusIMM (Principal, Multi Metal Consultants Pty Ltd) who is a competent person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Terry Ransted consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The full details of methodology were given in the 2004 Annual Report.

Dubbo Zirconia Project – Ore Reserves

Toongi Deposit	Tonnage (Mt)	ZrO_2 (%)	HfO_2 (%)	Nb_2O_5 (%)	Ta_2O_5 (%)	Y_2O_3 (%)	REO (%)
Proved	8.07	1.91	0.04	0.46	0.03	0.14	0.75
Probable	27.86	1.93	0.04	0.46	0.03	0.14	0.74
Total	35.93	1.93	0.04	0.46	0.03	0.14	0.74

These Ore Reserves are based upon information compiled by Mr Terry Ransted MAusIMM (Alkane Chief Geologist) who is a competent person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The reserves were calculated at a1.5% combined ZrO_2+Nb_2O_5+Y_2O_3+REO cut off using costs and revenues defined in the notes in ASX Announcement of16 November 2011. Terry Ransted consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Wellington – Galwadgere – Mineral Resources

DEPOSIT 0.5% Cu cut off	MEASURED Tonnage (t)	MEASURED Grade (% Cu)	MEASURED Grade (g/t)	INDICATED Tonnage (t)	INDICATED Grade (% Cu)	INDICATED Grade (g/t)
Galwadgere	-	-		2,090,000	0.99	0.3

These Mineral Resources are based upon information compiled by Mr Terry Ransted MAusIMM (Principal, Multi Metal Consultants Pty Ltd) who is a competent person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Terry Ransted consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The full details of methodology were given in the 2005 Annual Report

Resource & Reserves: Tomingley + Peak Hill

Tomingley (TGP) – Mineral Resources

DEPOSIT	MEASURED		INDICATED		INFERRED		TOTAL		
Top Cut	Tonnage	Grade	Tonnage	Grade	Tonnage	Grade	Tonnage	Grade	Gold
2.5x2.5x5.0m model	(t)	(g/t)	(t)	(g/t)	(t)	(g/t)	(t)	(g/t)	(koz)
Wyoming One	2,316,550	2.2	890,340	2.2	3,117,350	1.7	6,324,240	1.9	392.4
Wyoming Three	642,470	2.0	63,225	2.0	102,820	1.3	808,510	1.9	49.9
Caloma	2,690,530	2.3	567,860	2.1	2,194,490	1.9	5,452,870	2.1	369.4
Total	**5,649,550**	**2.2**	**1,521,420**	**2.1**	**5,414,660**	**1.8**	**12,585,630**	**2.0**	**811.7**

These Mineral Resources are based upon information compiled by Mr Richard Lewis MAusIMM (Lewis Mineral Resource Consultng Pty Ltd) who is a competent person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Richard Lewis consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The full details of methodology are given in the ASX Reports dated 25 March 2009, 2 October 2010 and 29 March 2012.

Tomingley (TGP) – Ore Reserves

DEPOSIT	PROVED		PROBABLE		TOTAL		Ounces
	Tonnage (t)	Grade (g/t)	Tonnage (t)	Grade (g/t)	Tonnage (t)	Grade (g/t)	
Wyoming One	1,700,000	1.6	200,000	1.3	1,900,000	1.6	94,500
Wyoming Three	500,000	1.6	0	0.0	500,000	1.6	28,100
Caloma	1,100,000	2.3	100,000	1.7	1,200,000	2.2	86,500
Total	**3,300,000**	**1.8**	**300,000**	**1.5**	**3,600,000**	**1.8**	**209,100**

These Ore Reserves are based upon information compiled under the guidance of Mr Dean Basile MAusIMM (Mining One Pty Ltd) who is a competent person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. The Reserves and Resources are estimated at an effective A$1,540 per ounce gold price. Dean Basile consents to the inclusion in the report of the matters based on the information in the form and context in which it appears.

Peak Hill – Mineral Resources

DEPOSIT	MEASURED		INDICATED		INFERRED		TOTAL		
0.5g/t gold cut off	Tonnage (t)	Grade (g/t)	Tonnage (t)	Grade (g/t)	Tonnage (t)	Grade (g/t)	Tonnage (t)	Grade (g/t)	k Ounces
Proprietary			**9,440,000**	**1.35**	**1,830,000**	**0.98**	**11,270,000**	**1.29**	**467.4**
3.0g/t gold cut off	Tonnage (t)	Grade (g/t)	Tonnage (t)	Grade (g/t)	Tonnage (t)	Grade (g/t)	Tonnage (t)	Grade (g/t)	k Ounces
Proprietary P					**810,000**	**4.40**	**810,000**	**4.40**	**114.6**

These Mineral Resources are based upon information compiled by Mr Terry Ransted MAusIMM (Principal, Multi Metal Consultants Pty Ltd) who is a competent person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Terry Ransted consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The full details of methodology were given in the 2004 Annual Report.