ALKANE RESOURCES LTD

MULTI-COMMODITY MINER EXPLORER

www.alkane.com.au

ASX : ALK

OTCQX : ANLKY

Tomingley Gold Project

Dubbo Zirconia Project

Mining the metals of the future.

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

Unless otherwise stated, 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) who 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 2012 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.

ALKANE
RESOURCES LTD

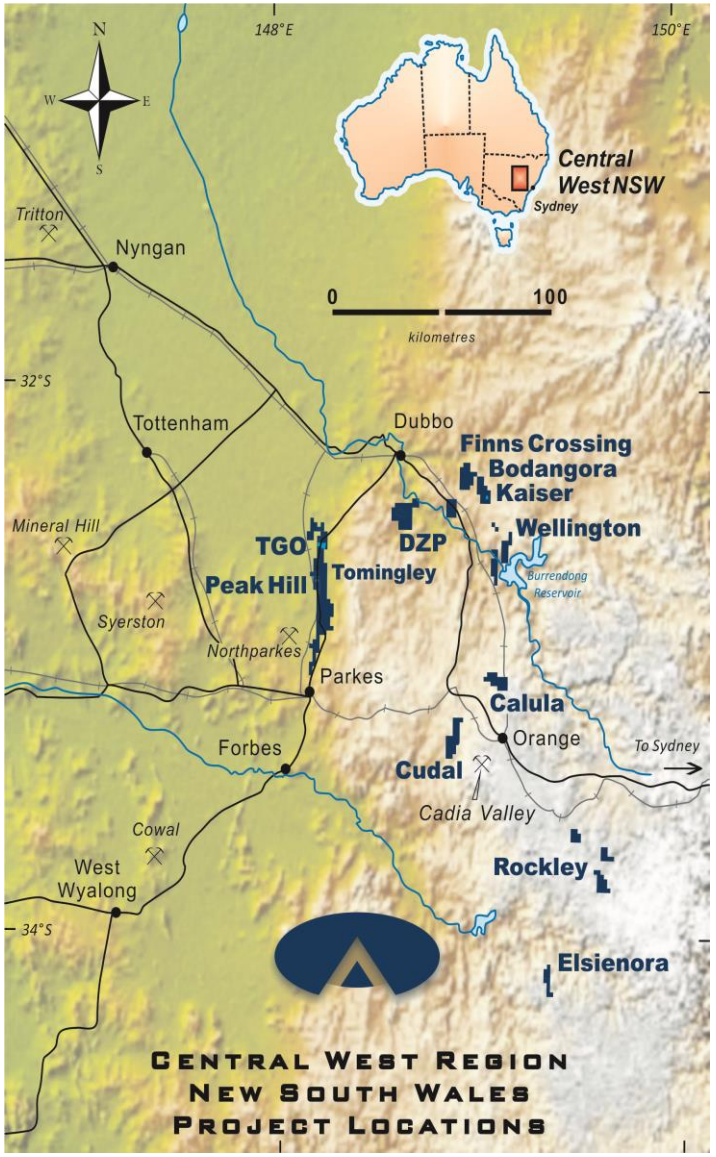
Alkane Strategy

Focused on NSW Central West

Multi-commodity company

Strategic relationships

Community & environmentally responsible



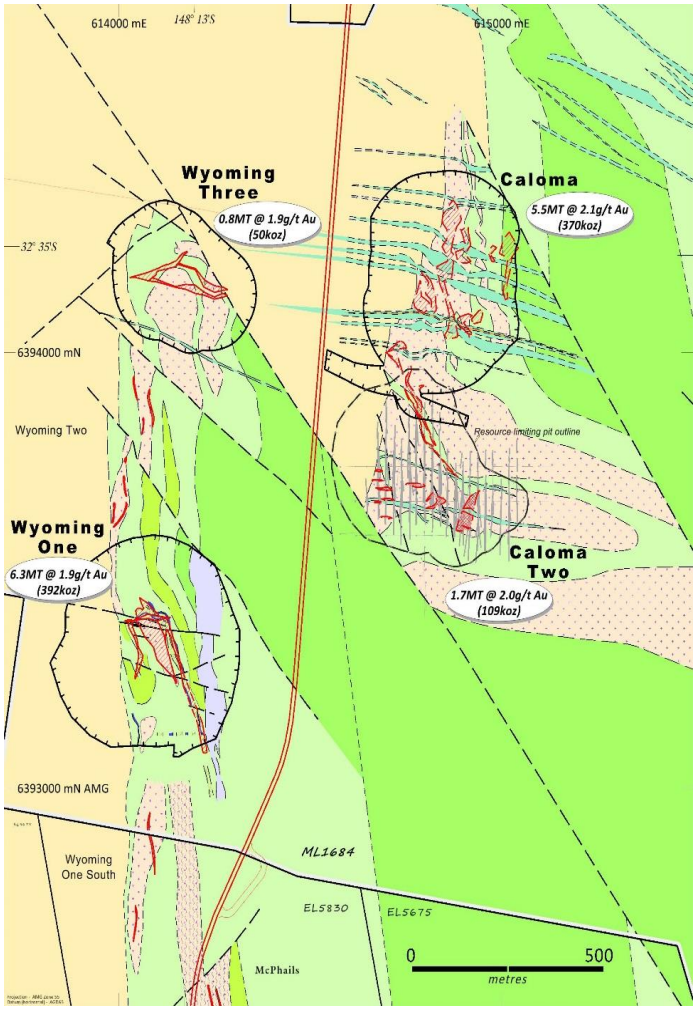
Tomingley Gold Operations

- Resource – 830,000oz of gold (30 June 2014)*
- Construction CAPEX – A$116M
- Mine Method – open cut & underground
- Mine Life – 7.5 years (targeting 10+ years)
- Processing plant throughput – 1.0Mtpa
- 2.00g/t Au and 93% recovery standard CIL
- Gold Production – ~400,000oz over base case life
- Cash operating costs (AISC) estimated and averaged over base case life – ~A$1,000 - $1,100/oz
- Gold production commenced February 2014

  FY15 at 30 June 2015:
  - Produced 69,612oz
  - AISC A$1,249/oz
  - Revenue A$101.9M
  - Cash flow A$23.7M
  - Hedge 24,000oz @ A$1,577/oz

* See note in slide 21

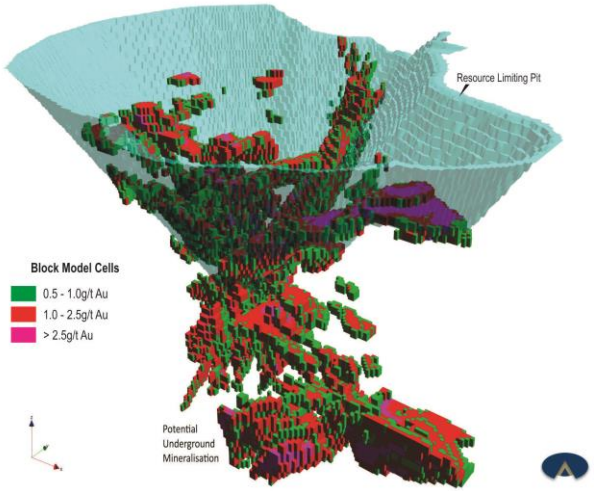
TGO Resource Expansion



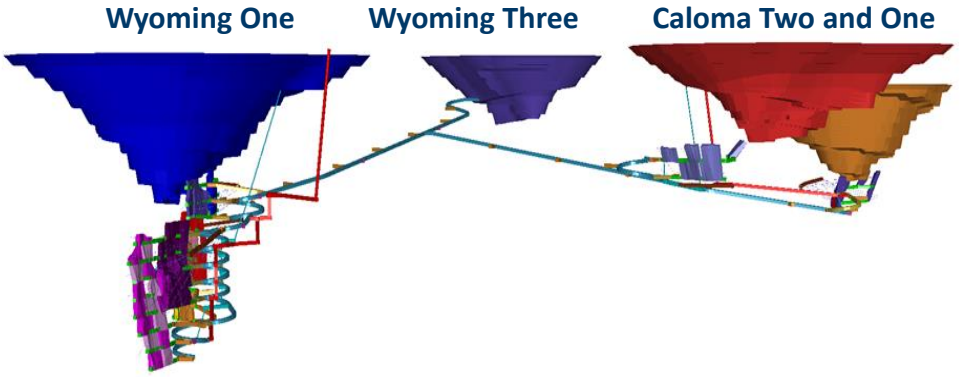
Additional Resource Potential

- Caloma Two open pit and underground
- Expand Wyoming One underground
- Caloma underground
- Myalls underground (historic 70,000oz)
- Wyoming Two and Three underground
- McLeans

Caloma Two – Geological model

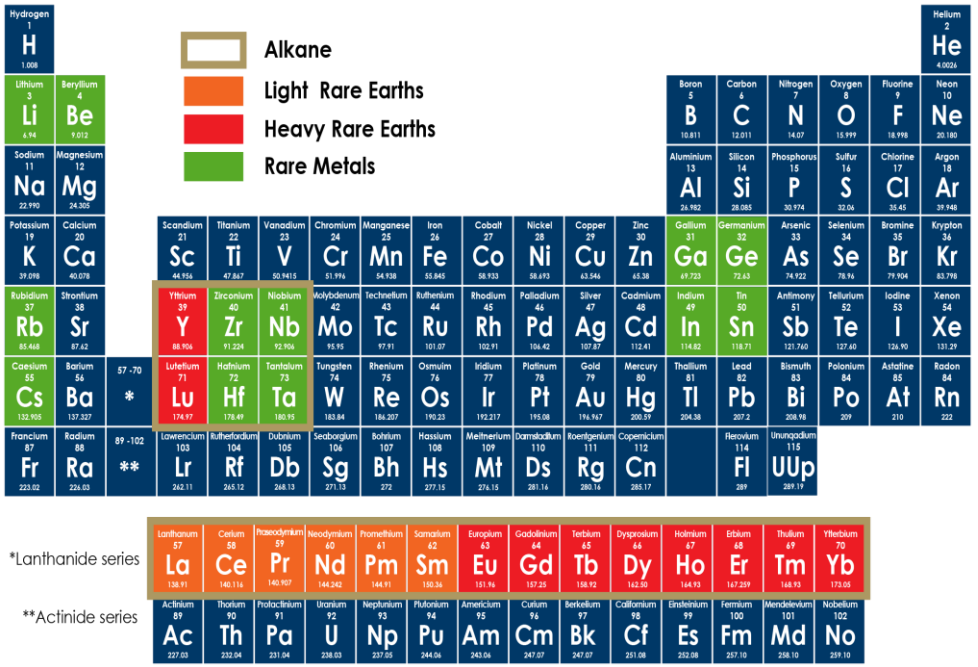


Initial Underground Concept



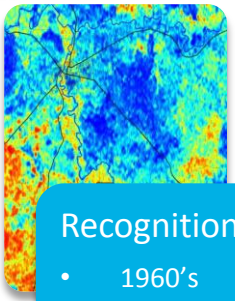
Dubbo Zirconia Project

- A very large polymetallic resource of the metals zirconium, hafnium, niobium (tantalum), yttrium and rare earths.
- Important and strategic metal mix.
- Reserve supports 35 year mine life at 1 million tonne ore processing per annum with defined resource potentially supporting a significantly longer operation*.
- Demonstrated flow sheet with pilot plant and products for market evaluation at ANSTO.
- Robust technical and financial feasibility completed April 2013. Bankable study nearing completion.
- Environmental Impact Statement lodged in June 2013 – Development approved May 2015.
- Strong market interest in products.



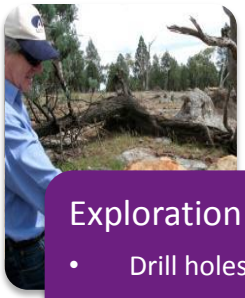
* See note in slide 20

DZP Discovery and Development



Recognition

- 1960's
- Initial drilling 1983 for Cu-Au



Exploration

- Drill holes 1990
- Preliminary metallurgical work

Resource

- 1999-2002
- Mini pilot plant
- Feasibility study

Process Development

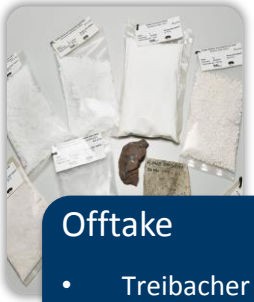
- Metallurgy 2006 - present

Demonstration Pilot Plant

- 2008-2015 cont
- Proven flowsheet
- DFS → BFS

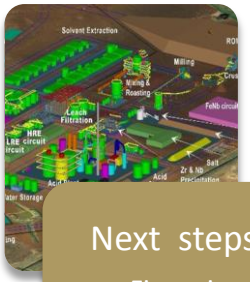
EIS

- Lodged June 2013
- Conditional approval Feb 2015
- Approved 29 May 2015



Offtake

- Treibacher AG for Nb
- Multiple options for zirconium
- Rare earths in progress



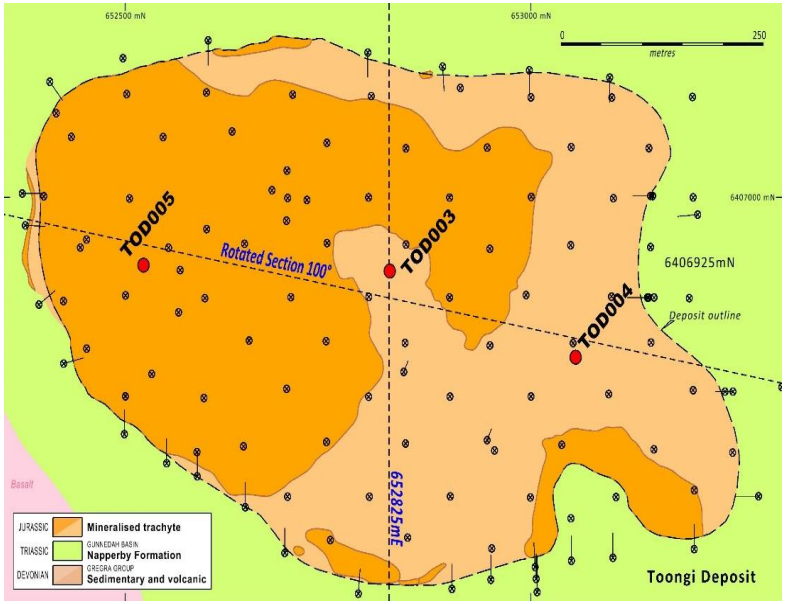
Next steps…

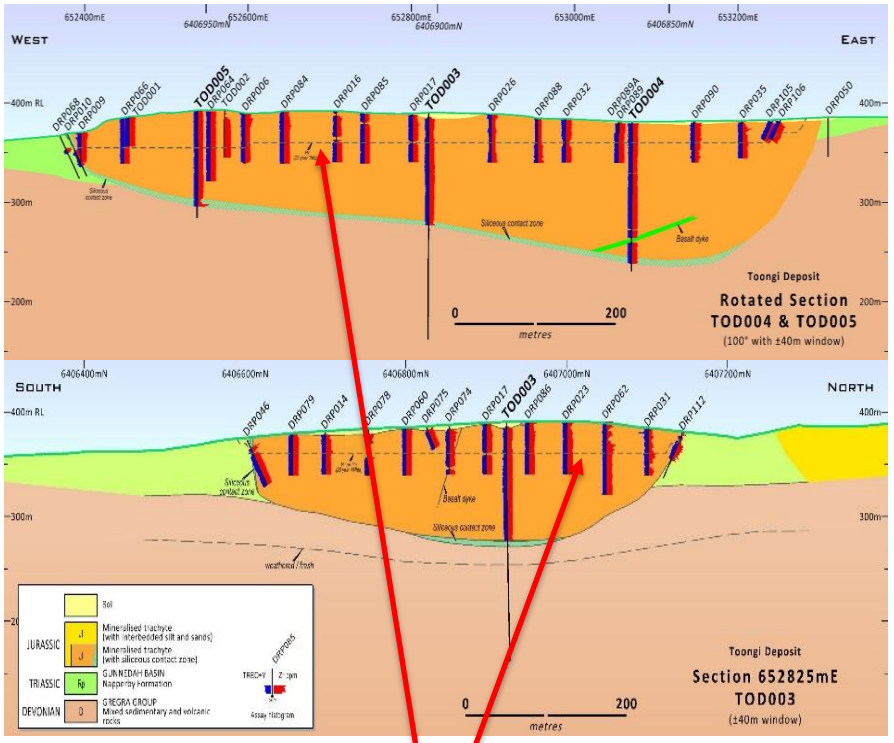
Financing

Construction

Production

Geology and Resources



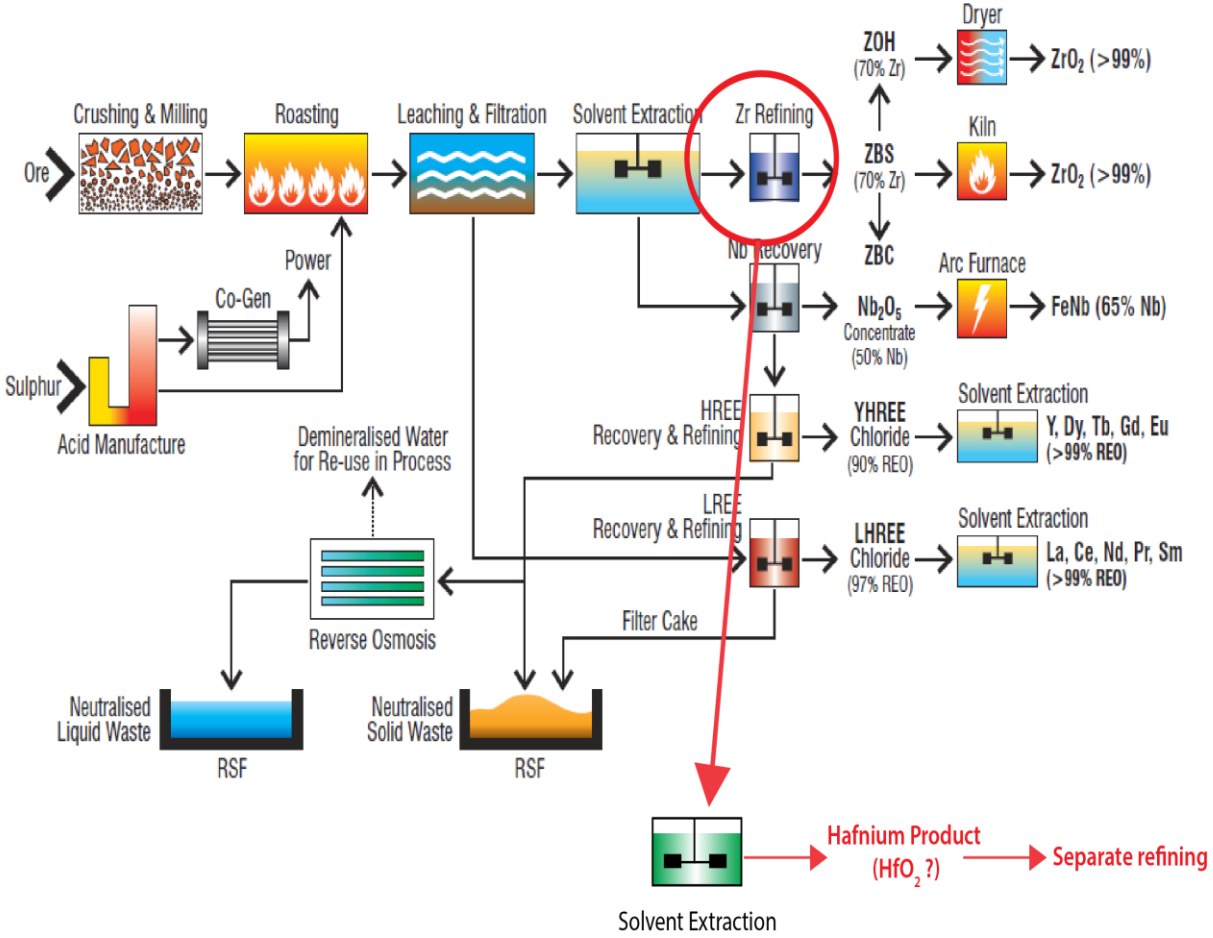


- Trachyte lava or sub-volcanic intrusive
- Largely homogeneous ore body
- Ore mineralogy:
  - eudialyte (“like” Zr silicate +Y and HRE)
  - natroniobite (Nb-Ta)
  - bastnaesite (LRE)
- All readily soluble in sulphuric acid forms basis of recovery process

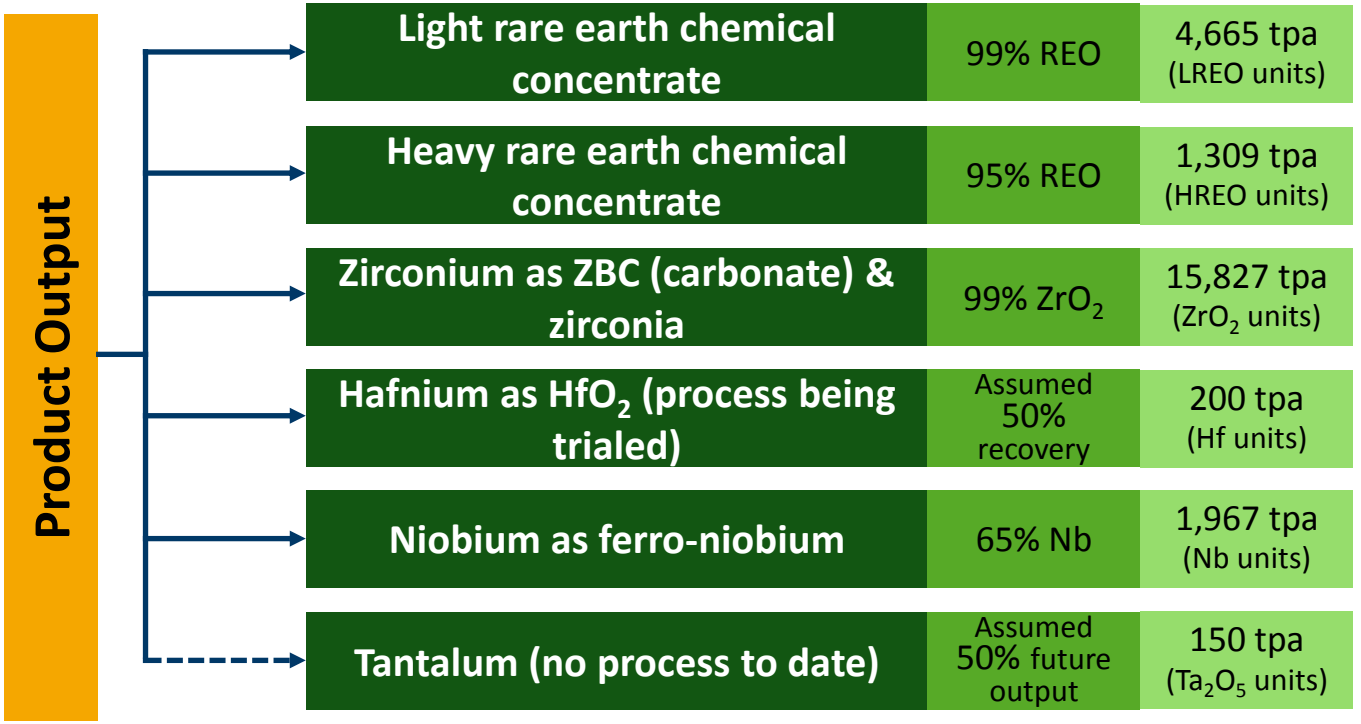
20 year pit.
Waste to ore 0.2:1.0

Resources and reserves detailed in slide 20

Flow Sheet with “new” Hafnium Recovery



DZP Product Output

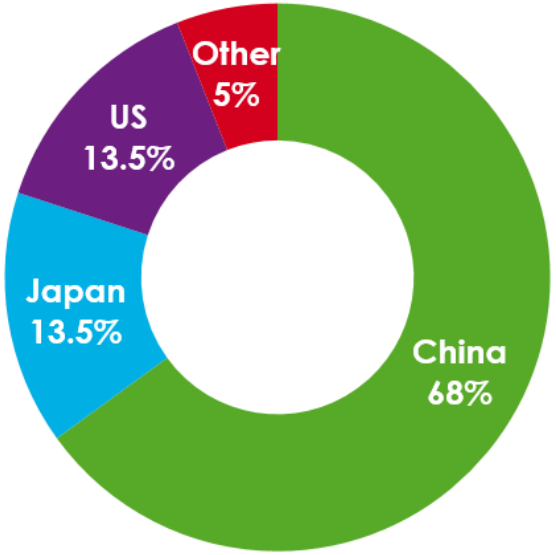


Tonnage based upon recoveries developed from mass balances of the demonstration pilot plant. Process optimization to improve recoveries is continuing.

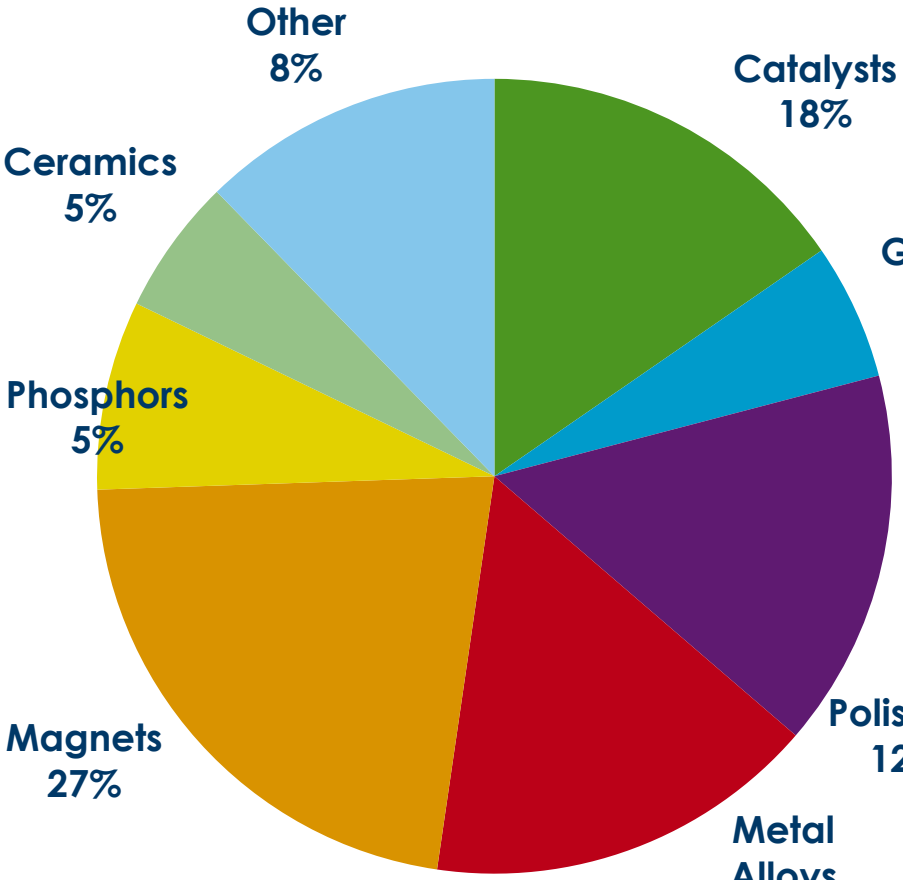
Rare Earth Industry

- US$3-5B Global market
- 136,000t Annual consumption 2014
- 5-10% Annual growth estimates
- 85-90% REE produced by China

REE Demand 2014 by Country



REE Demand 2016 by Application

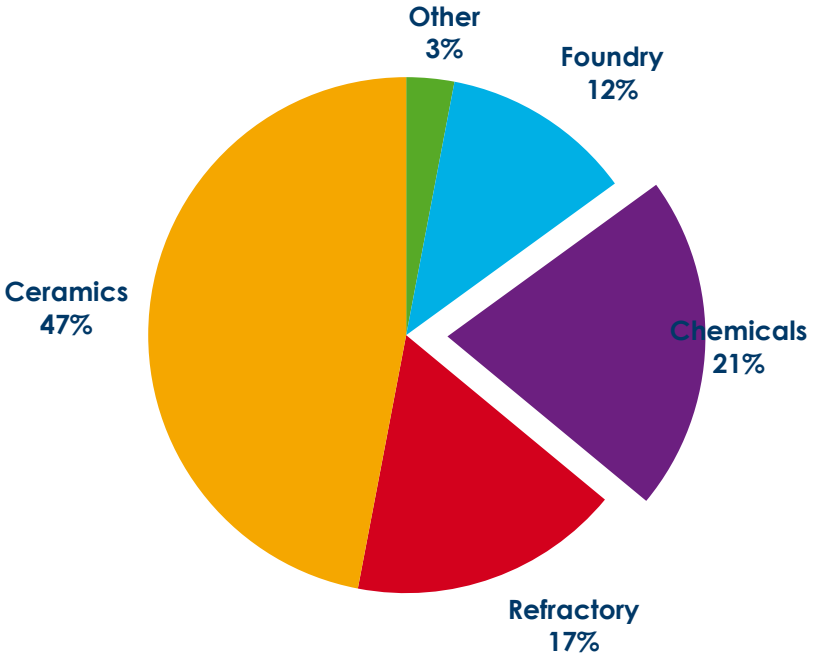


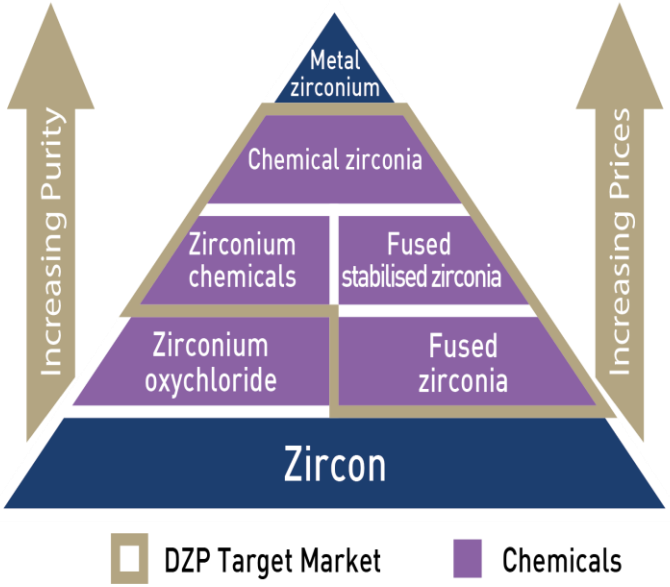
Source: IMCOA

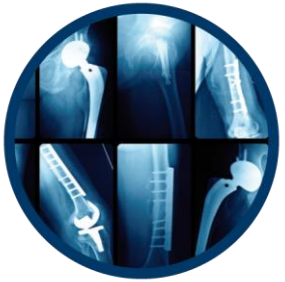
Zirconium Industry

Zircon Demand by End Use

(2014 ~ 1 million tonnes)







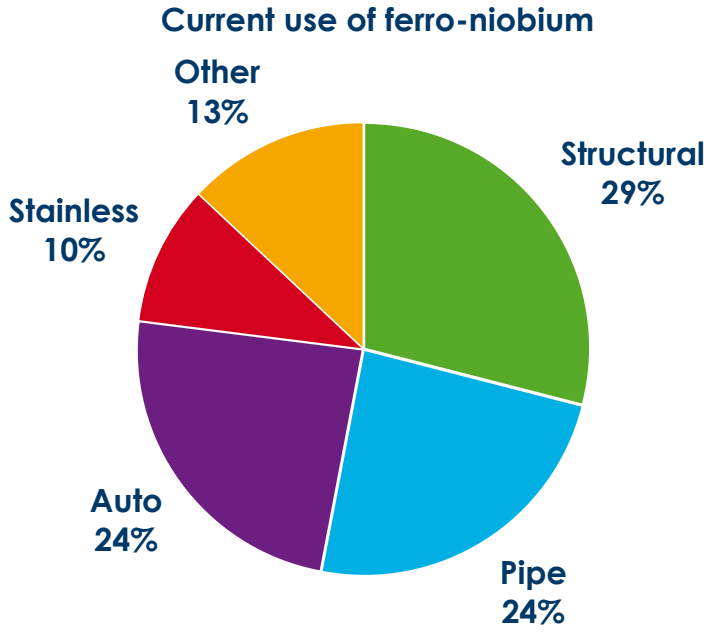
- Global market US$2-3B
- 2014 consumer zircon inventories running down
- Market expected to stabilise through 2015 - 2016
- CAGR anticipated at 5% - 7% pa

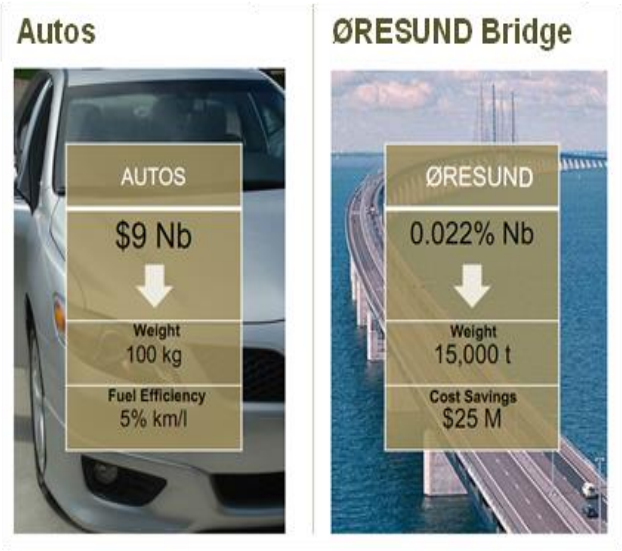
- China dominates downstream zirconium industry (85-90%)

Source: TCMS and Industry Sources

Niobium Industry

- 90% of Nb used in standard grade ferro-niobium for the production of high strength low alloy (HSLA) steels.
- World production estimated at 80,000t Nb in 2012. CBMM in Brazil accounts for 85%.
- Global market US$3-4B. Price stability since 2008, including GFC.
- CAGR anticipated at 10%. Demand expected to be driven by greater intensity of use in steels by BRIC producers.

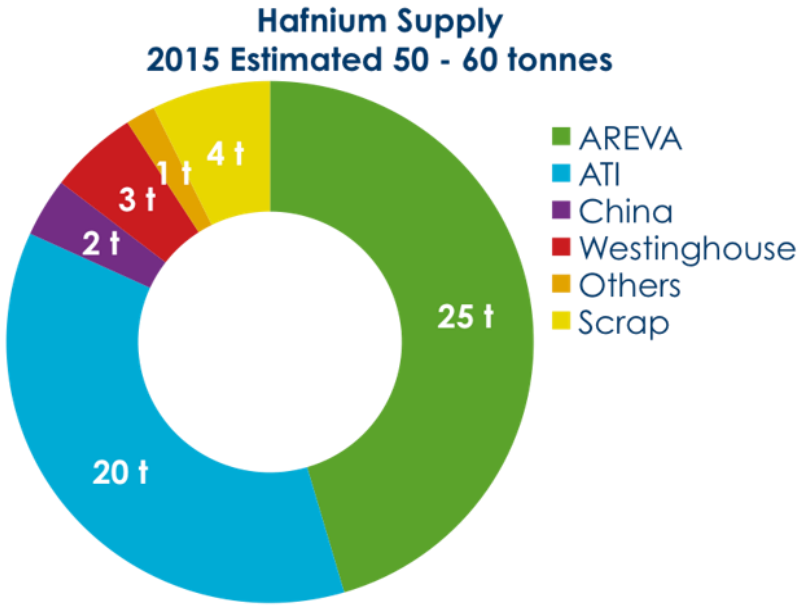


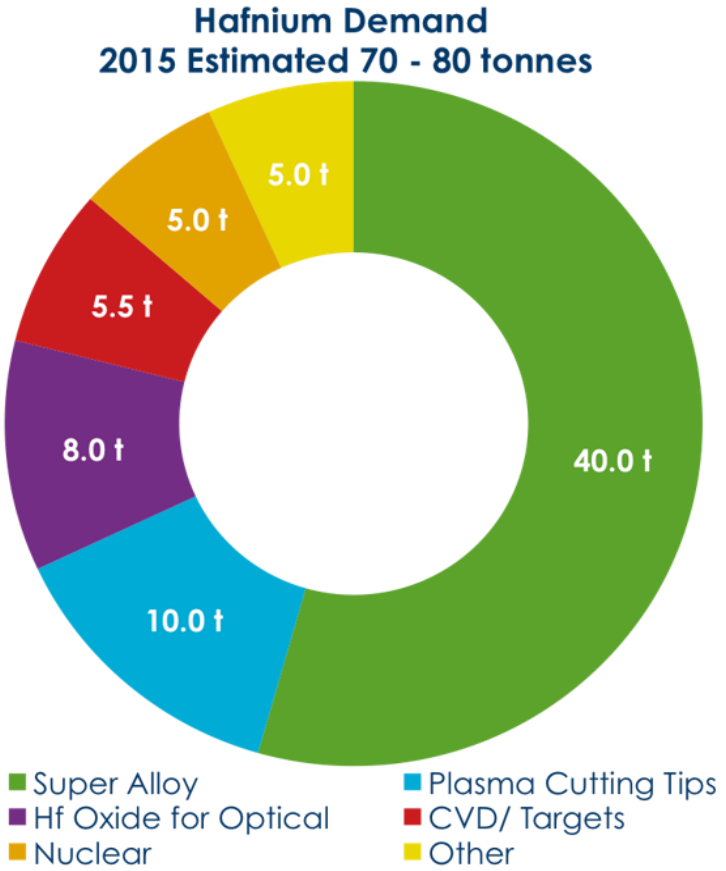


Source: Niobec and Industry Sources

Hafnium Industry

- **Super Alloys - 73% of 2015 supply**
- **By-product from zirconium metal**
  - Depends on nuclear industry
- **Prices escalating through demand by aerospace industries 2014 into 2015**



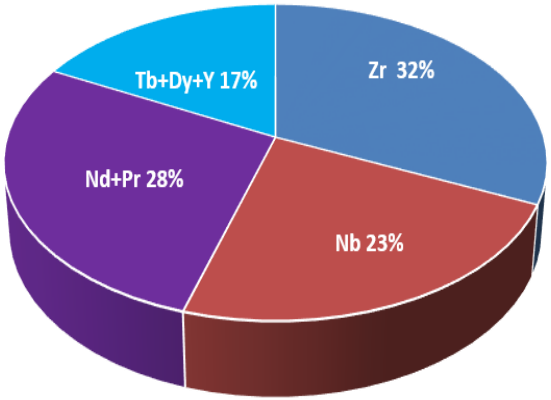


Source: Modified after Lipmann Walton & Co Ltd 2015

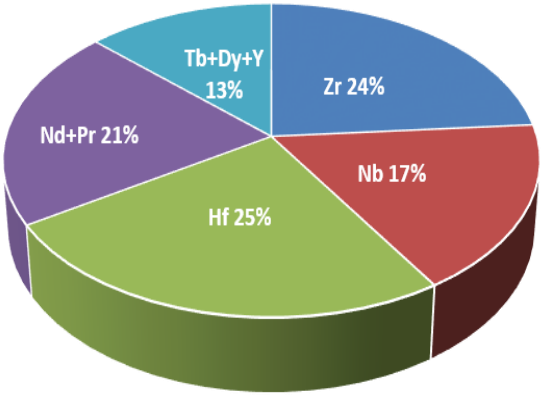
Financial Summary

Definitive Feasibility completed April 2013 – BFS with updated capex and opex being compiled. BFS scheduled for completion Q3 2015.

DFS Base Case ~A$1B capex and 20 year NPV A$1.2B*



Zr-Nb-Pr-Nd-Tb-Dy-Y



Zr-Hf-Nb-Pr-Nd-Tb-Dy-Y

Anticipated revenue at current Chinese spot prices ~A$400 – 450 million, and A$500 – 550 million with hafnium production.

Opex ranges from ~A$200 – 250 million, including hafnium production.

Rare earth revenues largely derived from Pr, Nd, Tb, Dy and Y (for production of RE magnets and special ceramics)

* See note in slide 20

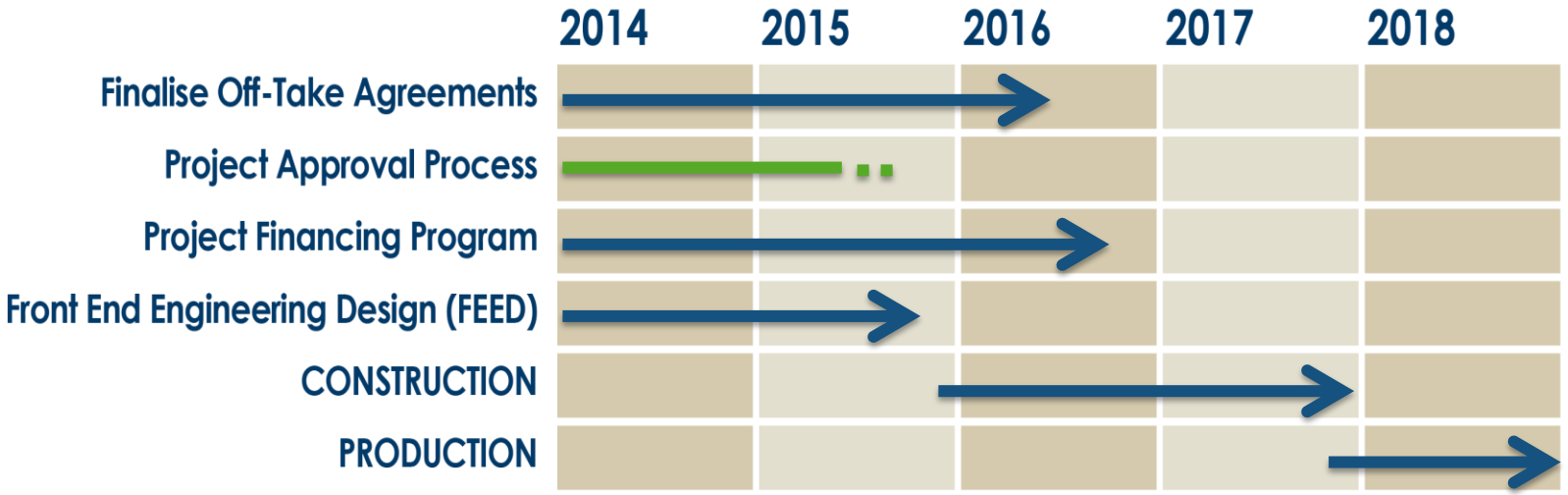
Funding Strategy

Investment at Project Level	Government Assistance Programs	Commercial Bank Debt	Equity Capital Markets (ALK)

• Strategic Investment(s)
• Advisors: SMBC & Credit Suisse
• Strategic interest(s) in long term supply of critical metals
• Intro of cornerstone investor(s)
	• ECA Style Funding
	• Lead coordinator: Sumitomo Mitsui Banking Corp
	• Attractive Project
	  • Long life, low cost
	  • Long term off-take-agreements with international companies
		• Advisors: SMBC & Credit Suisse
		• Attractive Project
		  • Strong operating cash flows
		  • Diversified revenue stream
		  • New markets
			• Advisors: Credit Suisse & Petra Capital

- **Total project capex ~A$1B (including A$166M contingency) based on April 2013 DFS to +/-17%**
- **Current FEED program to achieve BFS standard @ +/-10%**
- **Capex, opex and revenue being reviewed**
- **Multiple off-take discussions and advancing ECA programs**

Timetable



State approval received 29 May 2015
ML and EPL anticipated by end of September

Estimates of times are indicative only and are subject to change.
Alkane reserves the right to vary the timetable without notice.

Producing the Metals of the Future

- Internationally strategic DZP with supply of several critical metals from non-Chinese sources
- Diversified DZP output gives robust revenues, even at current Chinese domestic RE and Zr prices
- Full spectrum of rare earth magnet materials – neodymium, praseodymium, dysprosium and terbium produced
- The DZP is very different to Lynas' Mt Weld and Molycorp's Mt Pass pure rare earth (mostly light RE) projects
- Potential to be the world's largest hafnium producer and supply long term stable production and pricing into the expanding aerospace industry

- Current operating cost structure very competitive @ US$7 - $8/kg of product produced (~A$10.40)

THANK YOU

TGO CIL Plant

DZP Demonstration Pilot Plant

DZP Resources and Reserves

Dubbo Zirconia Project – Mineral Resources

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

These Mineral Resources are based upon information compiled by Mr Terry Ransted MAusIMM (Alkane Chief Geologist) who is a competent person as defined in the 2012 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 2012 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 of 16 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.

Note: ASX announcements 16 November 2011, 11 April 2013 and 30 October 2013 - the Company confirms that all material assumptions and technical parameters underpinning the estimated Mineral Resources and Ore Reserves, and production targets and the forecast financial information as disclosed continue to apply and have not materially changed.

Resource & Reserves: TGO

TOMINGLEY GOLD PROJECT MINERAL RESOURCES (as at 30 June 2014)									
DEPOSIT	MEASURED		INDICATED		INFERRED		TOTAL		Total Gold (Koz)
	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	
Open Pittable Resources (cut off 0.50g/t Au)									
Wyoming One	2,171	1.7	442	1.5	735	1.1	3,348	1.6	166.8
Wyoming Three	473	1.8	25	1.5	98	1.1	597	1.6	31.5
Caloma	2,556	2.0	649	1.7	2,464	1.4	5,669	1.7	316.9
Caloma Two	-	-	1,085	2.4	704	1.3	1,789	2.0	112.4
Sub Total	**5,200**	**1.9**	**2,201**	**2.0**	**4,001**	**1.3**	**11,402**	**1.7**	**627.5**
Underground Resources (cut off 1.75g/t Au)									
Wyoming One	229	4.1	296	3.7	869	2.9	1,394	3.3	147.3
Wyoming Three	29	2.6	15	2.4	8	2.5	52	2.5	4.2
Caloma	3	2.1	13	2.3	224	2.5	240	2.4	18.9
Caloma Two	-	-	215	2.7	165	2.5	380	2.6	32.0
Sub Total	**261**	**3.9**	**539**	**3.2**	**1,266**	**2.8**	**2,066**	**3.0**	**202.4**
TOTAL	**5,461**	**2.0**	**2,740**	**2.3**	**5,267**	**1.7**	**13,468**	**1.9**	**829.8**

TOMINGLEY GOLD PROJECT ORE RESERVES (as at 30 June 2014)							
DEPOSIT	PROVED		PROBABLE		TOTAL		Total Gold (Koz)
	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	
Wyoming One	1,662	1.7	202	1.4	1,864	1.6	98.4
Wyoming Three	379	1.7	10	1.8	389	1.7	21.4
Caloma	1,744	2.2	184	1.7	1,928	2.2	136.0
Caloma Two	-	-	239	3.6	239	3.6	27.4
TOTAL	**3,785**	**1.9**	**635**	**2.3**	**4,420**	**2.0**	**283.2**
Stockpiles	186	1.9			186	1.9	11.5
TOTAL					**4,606**	**2.0**	**294.7**

Full details are given in the ASX release of 5 September 2014