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Annual General Meeting

Sydney
18 November 2015

Shareholder Presentations Melbourne 19 November and Perth 20 November

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.



Focused on NSW Central West

Alkane Strategy



Multi-commodity company



Strategic relationships





Board & Management

Board

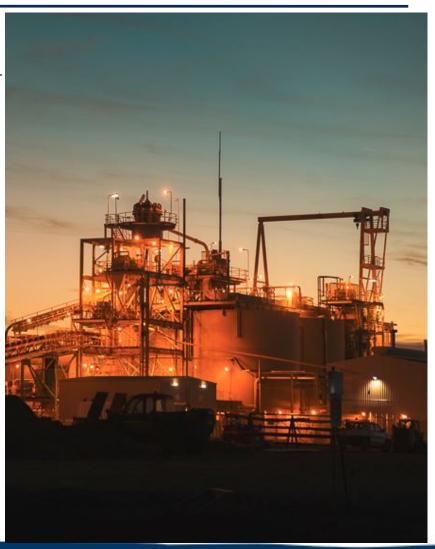
- John S F Dunlop (Chairman) BE(Min), MEngSc(Min). Mining engineer
 - D Ian Chalmers (Managing Director) MSc. Geologist
- lan J Gandel (Director) LLB, BEc. Businessman
- Anthony D Lethlean (Director) BAppSc. Geologist/Banker
 - Karen Brown (Company Secretary) BEc

\$enior Management

- Nic Earner (Chief Operations Officer) BEng (Honours)
- Michael Ball (Chief Financial Officer) CA BCom
- Terry Ransted (Chief Geologist) BSc
- Michael Sutherland (General Manager NSW) BSc
- Brendan Ward (Commercial Manager) LLB, BA
- Sean Buxton (TGO Operations Manager) BEng
- Natalie Chapman (Corporate Communications) BSc, MBA

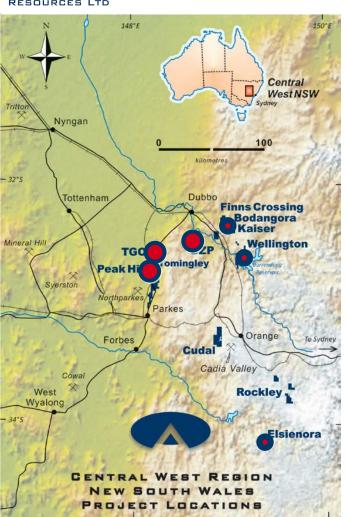
DZP Marketing

- Alister MacDonald (Marketing TCMS) Ceramic Engineer
- Jeff Swingler (Special Strategic Advisor) CA, MEI





Alkane in the Central West NSW



- Peak Hill Gold Mine 1996 2005
- Tomingley Gold Operations
 Production commenced 2014
- Dubbo Zirconia Project Pre-construction
- Advanced exploration projects at
 Bodangora Kaiser (Au Cu)
 Wellington (Cu Au)
 Elsienora (Au base metals, barite)

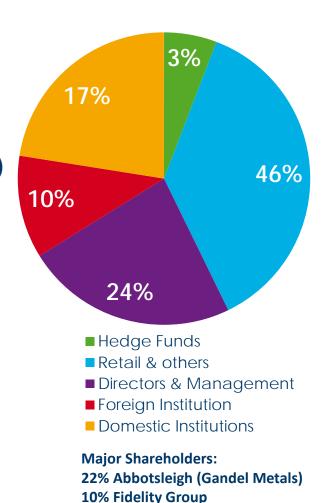


FY 2015 Snapshot

- Tomingley Gold Operations in steady state
 - Production 69,612 ounces
 - Gold revenue A\$101.94 million
 - Operating cash flow A\$28.6 million
 - Capital A\$15.9 million (incl deferred waste A\$11.0M)
- FY15 Financials

Dersonal use

- Total income A\$102.5 million
- Loss after income tax A\$4.1 million
- Total equity A\$170.5 million
- Market cap at 17 November A\$90 million
- Issues cap 414.2 million shares
- Cash and bullion A\$19.6 million. No debt
- Dubbo Zirconia Project FEED, process development, marketing
 - FY15 total expenditure A\$15.8 million
 - Funded from TGO cash flows





Tomingley Gold Operations FY15

\$115 million funded without debt

- Resource 688,000oz of gold (21 Sept 2015)
- Mine Method open cut & underground
 - Mine Life 6.5 years (targeting 10+ yrs)
- Processing plant throughput 1.0Mtpa
- 2.00g/t Au and 93% recovery standard
- Gold Production ~400,000oz over base case life
- **Gold production commenced February 2014** FY15 at 30 June 2015:
 - **Production 69,612oz**
 - Revenue A\$101.9M
 - Cash flow A\$28.6M
 - AISC A\$1,249(1)



(1) AISC = All in Sustaining Cost comprises all site operating cash costs, royalties, mine exploration, sustaining capex and mine development and an allocation of corporate costs presented on the basis of ounces produced.



TGO Site







TGO Q1 FY16

Continuous Improvement Programs

Mining:

TGO has been working collaboratively over the last 12 months with its fleet hire equipment provider, Emeco, to improve overall mining productivity. This project, "Emeco Better Solution", has to date delivered a 12% increase in payload and 10% increase in operating efficiency lifting TGO's fleet into the first or second quartile of similar mining fleets in Australia across most standard productivity metrics.

Processing:

The team has been focussed on stable recovery and lowering unit costs. This has been successful in reducing processing cost by >7% over the last 12 months to below that forecast in the DFS 2013.

Q1 FY16:

- O Production 19,789oz
- O AISC⁽¹⁾ A\$1,234/oz
- O Revenue A\$32.9M
- Operating cash flow A\$13.0M
- O Gold forward 22,500oz @ A\$1,596/oz

FY 2016 Guidance:

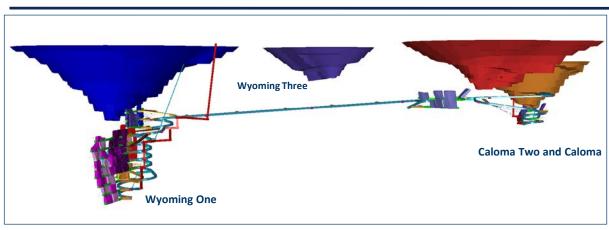
- **Production 60,000 70,000oz**
- O AISC⁽¹⁾ A\$1,200 1,300/oz

(1) Defined on slide 7





TGO Mine Schedule







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TGO Resource Expansion

ALKANE RESOURCES LTD TOMINGLEY GOLD PROJECT EL6319 Aeromagnetic Image

Additional Resource Potential

Expand Wyoming One underground Caloma and Caloma Two underground

Peak Hill - substantial gold copper mineralization (non JORC 2012 Classification)

Myalls underground (historic gold production)
Wyoming Two and Three underground intercepts
Tomingley One and Two - ore intercepts
McLeans - ore intercepts
Smiths - alteration and low grade gold intercepts
Black Snake - ore intercepts

Monte Carlo, Ungers, Ashes, McGregors - surface geochemical anomalies

50 kilometre long zone of prospective geology with limited exploration activity outside of the Peak Hill Gold Mine and TGO



Dubbo Zirconia Project

Located 400km northwest of Sydney within a region that has substantial infrastructure – roads, rail, power, gas, light engineering, people (~100,000), being a large agricultural and mining area

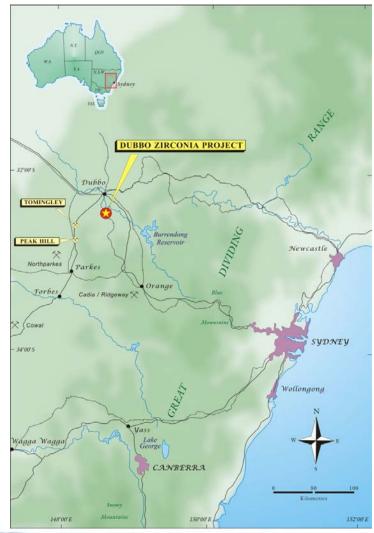
A very large polymetallic resource of the metals zirconium hafnium, niobium (tantalum), yttrium and rare earths Important and strategic metal mix

Reserve supports 35 year mine life at 1 million tonne ore processing per annum with defined resource supporting an 80 year open pit operation

Demonstrated flow sheet with pilot plant and products for market evaluation operated at ANSTO since 2008

August 2015 Front End Engineering Design (FEED) study confirmed the robust technical and financial DFS of April 2013 State and Federal environment approvals in May and August 2015

Finnish technology/engineering solutions company Outotec appointed for Early Contractor Involvement (ECI) in September to present a fixed price EPC

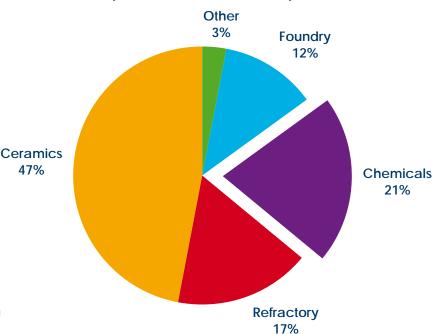




Zirconium Industry

Zircon Demand by End Use







- Global market US\$2-3B
- 2015 producer zircon inventories still high
- Market expected to stabilise through 2016 2017
- CAGR anticipated at 5% 7% pa after stabilisation

China dominates downstream zirconium industry (85-90%)



Zirconium Applications

Auto exhaust catalysts - ceria stabilised zirconia



Thermal barrier coatings yttria stabilised zirconia for jet and industrial gas turbines, and many other

Zirconium metal Abrasives Ceramic pigment 33% Cubic zirconia 10% Advanced ceramics Refractories

Substantial growth in advanced ceramics and cubic zirconia (jewellery)

Current world demand for zirconium chemicals / zirconia ~ 160,000tpa

applications

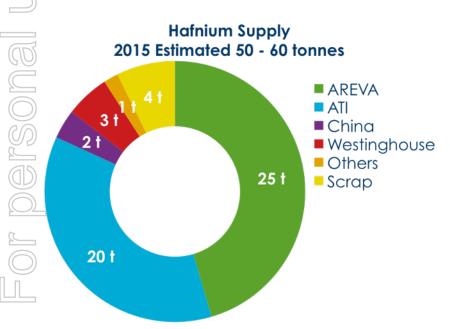


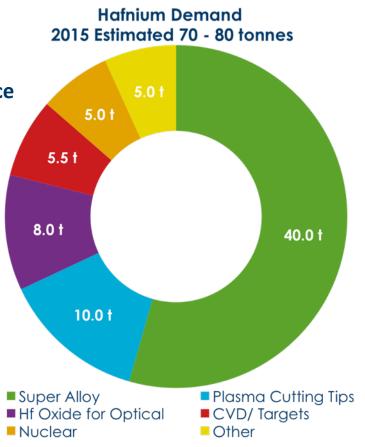
Hafnium Industry

Super Alloys - 73% of 2015 supply By-product from zirconium metal

• Depends on nuclear industry

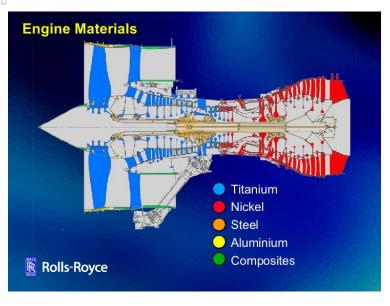
Prices escalating through demand by aerospace industries 2014 into 2015







Hafnium Applications



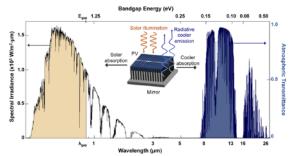
Addition of 1%-2% Hf to NiCo alloys raises operating temperature from 1,400°C to 2,000°C providing fuel efficiencies and emission minimisation.

Applicable to both jet engines and industrial gas turbines

Many innovations developing around hafnium

Stanford Report, November 26, 2014

Stanford engineers invent high-tech mirror to beam heat away from buildings into space



Reflective HfO2-SiO2 layer pushes energy in to space and does not add heat to the atmosphere

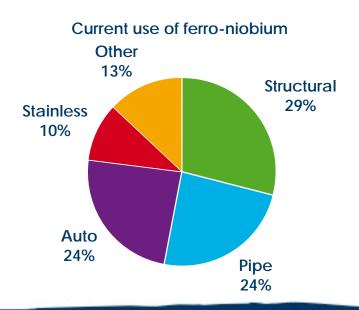
Both passenger and military aircraft growth at plus 100% over the next five years



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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



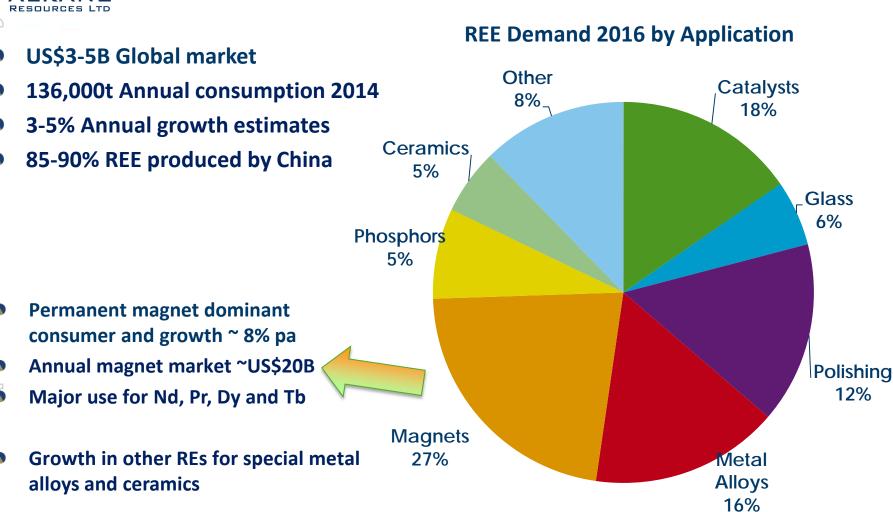


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© 2015 Alkane Resources Ltd Source: Niobec and Industry Sources



Rare Earth Industry



© 2015 Alkane Resources Ltd Source: IMCOA 19



Rare Earth Applications – Permanent Magnets

Permanent Magnets – major growth

- Hybrid and electric cars
- Wind turbine
- Industrial gas turbines
- Marine electric motors

More than 100 magnet motors in one car

Ferrite magnet → Nd magnet → High-end ferrite magnet (added La, Co), SRM etc.



Cumulated Siemens offshore installations 450 kW (ø35m) 1990 2012 2017 First project MW turbines GW project UK Round 3







Restricted @ Siemens AG 2014 All rights reserved.

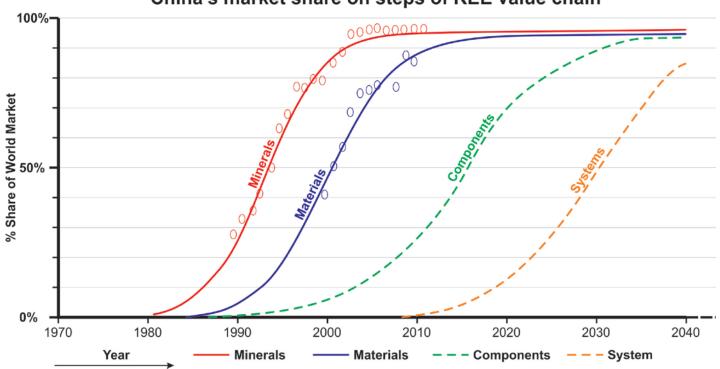
Thysen Krupp Maritim
Permasyn marine propulsion
systems





China's REE dominance





The value increases from US\$4B Minerals; US\$40B Materials; US\$400B Components; to US\$4T Systems

Is the rest of the world prepared to accept China's domination of high-tech and advanced materials manufacture?



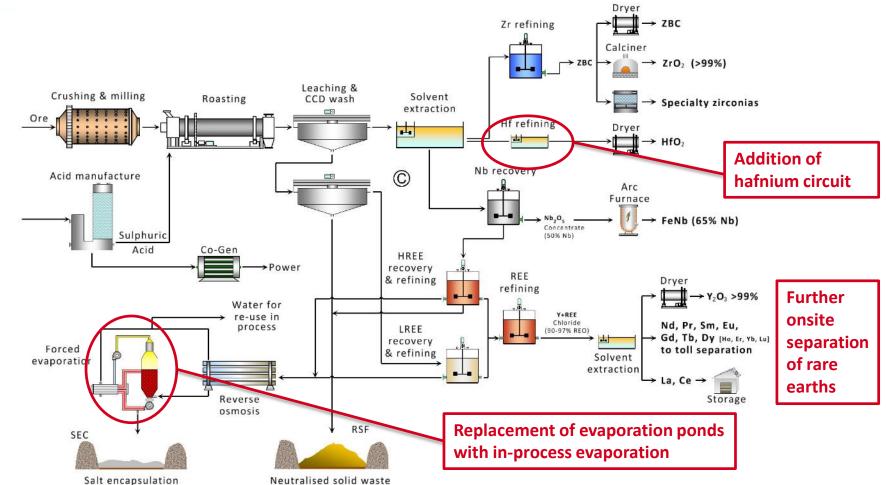
DZP 2015 Key Milestones

- **State Approval 28 May**
- **Federal Department of Environment Approval 25 August**
- Front End Engineering Design (FEED) completed 27 August
- Revamped flowsheet, with specific rare earth separation on site, improved waste management and reduced water consumption
 - Technology engineers Outotec appointed 29 September for Early Contractor Involvement (ECI) to produce EPC (Fixed price) construction cost
 - **Environmental Protection Licence (EPL) and Mining Lease approval expected shortly**
- Financing, rare earth processing and product off-take agreements continued progress



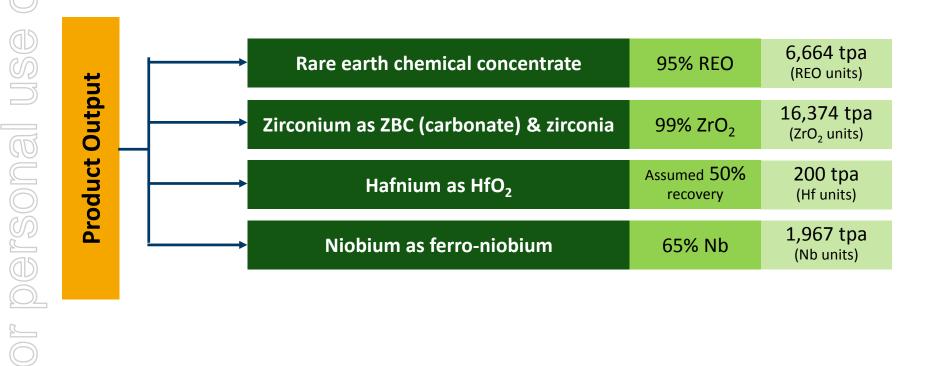
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Process Flowsheet – 2015 Changes





Product Output

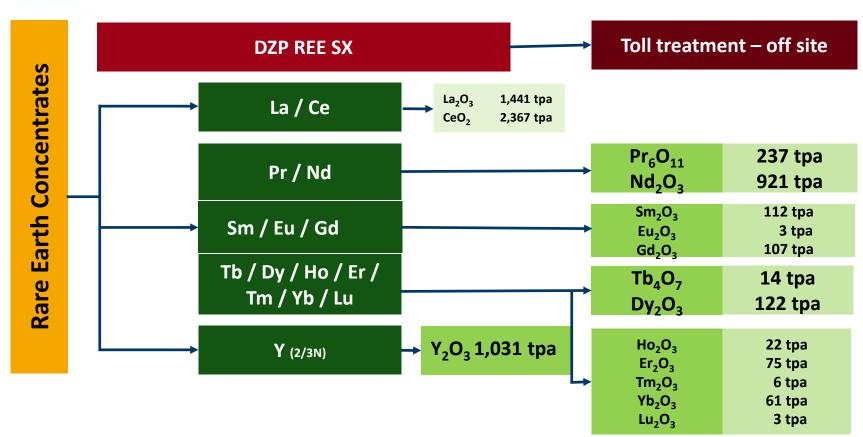


Tonnage based upon recoveries developed from mass balances of the demonstration pilot plant.

Total output approximately 25,200 tpa of all products



Rare Earth Output



Tonnage based upon recoveries developed from mass balances of the demonstration pilot plant, and preliminary solvent extraction stages on site at the DZP. Total saleable RE products from site ~1,030 tpa and off site ~ 1,675 tpa.



2015 Financial Summary

Front End Engineering Design (FEED) completed August 2015

Capex A\$1.3B / A\$103M contingency

Revenue A\$550 - \$600Mpa

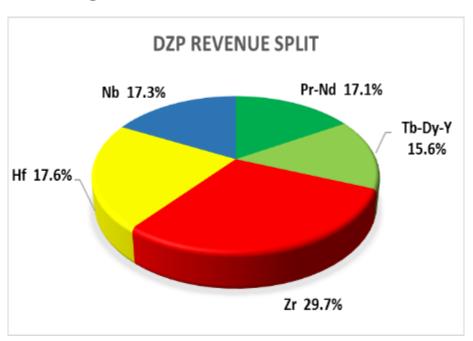
Opex A\$260Mpa

EBITDA A\$290 - \$340Mpa

20 year NPV A\$1.2B (8%) and 17.5% IRR

Revenue based upon Chinese domestic rare earth prices and current spot ranges for Zr, Hf and Nb

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



Operating costs to produce a kilogram of product range from US\$7.50 to US\$8.00/kg

Revenue averages US\$17.00/kg (REO US\$23/kg or US\$56/kg without La/Ce; Zr US\$8.26/kg; Hf US\$500/kg; Nb US\$40/kg)

Capital intensity ~ US\$35/kg of product

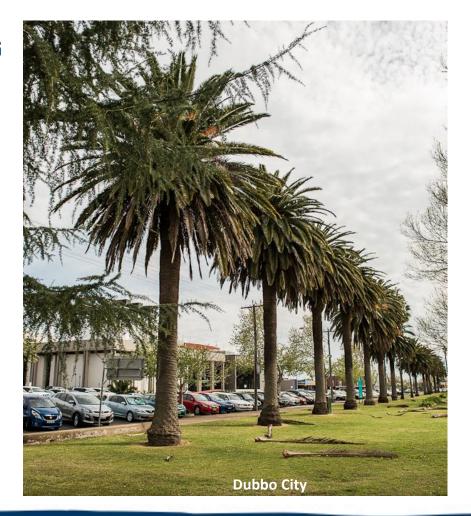


Marketing and Off-take

Joint venture with Treibacher Industrie AG to produce and market ferro-niobium

Finalising a zirconium product marketing agreement for world wide sales

Advancing the off-site rare earth processing agreement to enable marketing of separate rare earth products Continued discussions with multiple end users for all products





Funding Strategy

Investment at Project Level

- Strategic Investment(s)
- Advisors: Sumitomo Mitsui Banking Corp (SMBC) & Credit Suisse
- Strategic interest(s) in long term supply of critical metals
- Intro of cornerstone investor(s)

Government Assistance Programs

- ECA Style Funding
- Lead coordinator: SMBC
- Attractive Project
 - Long life, low cost
 - Long term off-takeagreements with international companies

Commercial Bank Debt (CBD)

- Advisors: SMBC & Credit Suisse
- Attractive Project
 - Strong operating cash flows
 - Diversified revenue stream
 - New markets

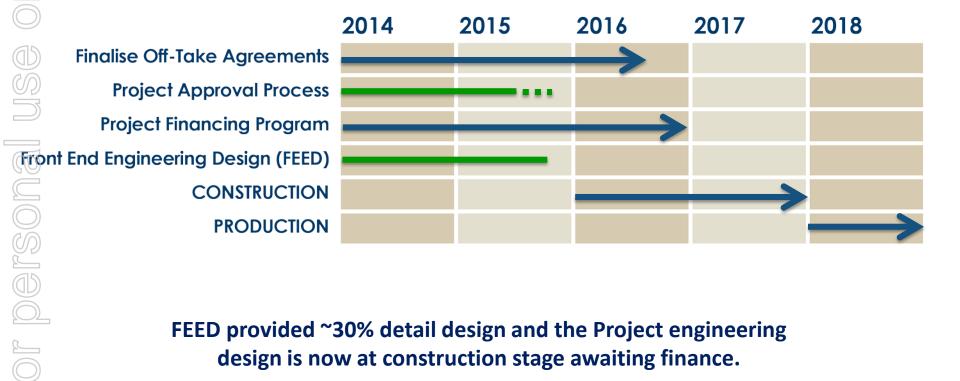
Equity Capital Markets (ALK)

Advisors: Credit Suisse
 & Petra Capital

- Total project capex ~US\$1.3B (including ~10% contingency)
- Advisor financial modelling indicates Export Credit Agency/CBD capacity 60% 70%
- ECA discussions suggest 30% 40% of capex requirements
- Strategic investment will be an important catalyst to funding
- Discussions have advanced since Project approval in May







FEED provided ~30% detail design and the Project engineering design is now at construction stage awaiting finance.

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



The DZP Advantage

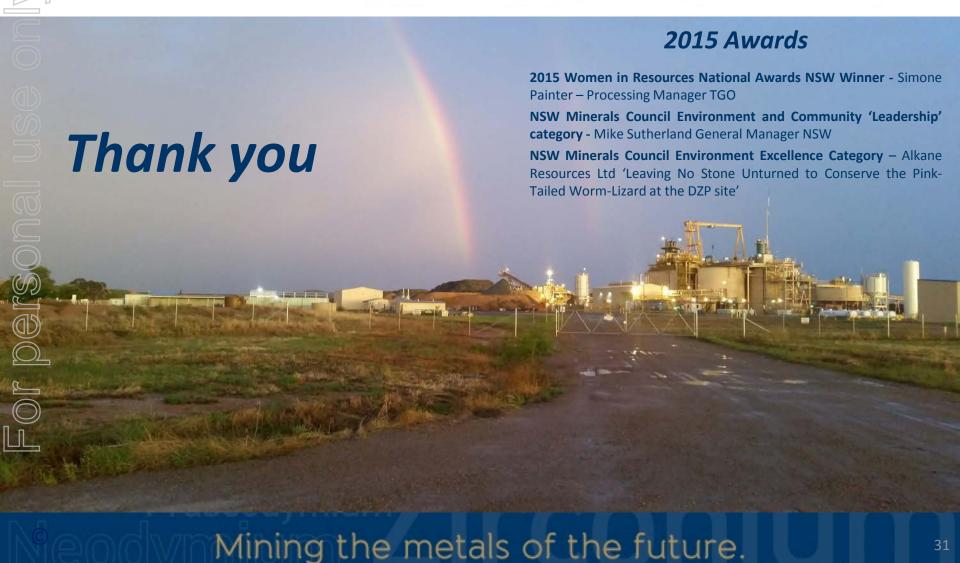
- Internationally strategic with supply of several critical metals from non-Chinese sources
- Business case has robust revenues, even at current Chinese domestic RE and Zr prices
- Full spectrum of rare earth magnet materials neodymium, praseodymium, dysprosium and terbium produced, as well as other "heavy" rare earths and yttrium which have developing advanced materials applications
- The DZP's diversified output gives a very different revenue profile to Lynas' Mt Weld and Molycorp's Mt Pass pure rare earth operations, providing increased stability in variable markets
- Production of zirconium chemicals not related to zircon or the mineral sands industry. New high purity zirconium product
- Potential to be the world's largest hafnium producer and supply long term stable production and pricing into the expanding aerospace and industrial gas turbine industries, not related to the production of nuclear grade zirconium metal
- Current estimated operating cost structure very competitive @ US\$7 \$8/kg of product produced



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DZP Resources and Reserves

Dubbo Zirconia Project – Mineral Resources

	Toongi	Tonnage	ZrO ₂	HfO₂	Nb ₂ O ₅	Ta ₂ O ₅	Y_2O_3	REO
	Deposit	(Mt)	(%)	(%)	(%)	(%)	(%)	(%)
1/	Measured	35.70	1.96	0.04	0.46	0.03	0.14	0.75
7	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

1	, Toongi	Tonnage	ZrO ₂	HfO ₂	Nb ₂ O ₅	Ta ₂ O ₅	Y ₂ O ₃	REO
D	Deposit	(Mt)	(%)	(%)	(%)	(%)	(%)	(%)
+	Proved	8.07	1.91	0.04	0.46	0.03	0.14	0.75
10	Probable	27.86	1.93	0.04	0.46	0.03	0.14	0.74
3	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, 30 October 2013 and 27 August 2015 - 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: Tomingley

	T	OMINGLEY (GOLD PROJE	CT MINERAL	RESOURCES	(as at 30 Jui	ne 2015)			
	MEAS	URED	INDICATED		INFERRED		TOTAL		Total Gold	
DEPOSIT	Tonnage	Grade	Tonnage	Grade	Tonnage	Grade	Tonnage	Grade	Total Gold	
	(Kt)	(g/t Au)	(Kt)	(g/t Au)	(Kt)	(g/t Au)	(Kt)	(g/t Au)	(Koz)	
Open Pittable Resources (cut off 0.50g/t Au)										
Wyoming One	2,171	1.7	442	1.5	735	1.1	3,348	1.5	167	
Wyoming Three	206	1.7	122	1.7	2	1.1	330	1.7	18	
Caloma	2,163	1.8	582	1.7	2,008	1.5	4,753	1.7	254	
Caloma Two	1	ı	1,085	2.4	704	1.3	1,789	2.0	112	
Sub Total	4,540	1.8	2,231	2.0	3,450	1.4	10,220	1.7	551	
Underground Reso	urces (cut off 2.5)	0g/t Au)								
Wyoming One	168	4.8	205	4.4	361	4.2	735	4.4	104	
Wyoming Three	12	3.6	20	4.5	25	3.3	57	3.8	7	
Caloma	0	3.1	4	2.9	81	3.2	84	3.2	9	
Caloma Two	ı	П	92	3.5	63	3.2	155	3.3	17	
Sub Total	180	4.7	321	4.1	530	3.9	1,031	4.1	136	
TOTAL	4,720	1.9	2,552	2.3	3,979	1.7	11,251	1.9	687	

TOMINGLEY GOLD PROJECT ORE RESERVES(as at 30 June 2015)									
	PRO	VED	PROBABLE		TO	Total Gold			
DEPOSIT	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	Tonnage (Kt)	Grade (g/t Au)	(Koz)		
Wyoming One	1,665	1.6	202	1.3	1,867	1.5	94		
Wyoming Three	173	1.6	5	1.4	178	1.5	9		
Caloma	1,247	1.9	72	1.5	1,319	1.8	80		
Caloma Cut Back	222	1.5	66	1.4	288	1.4	14		
Caloma Two	-	=	243	3.5	243	3.5	27		
							-		
Stockpiles	468	0.8	-	-	468	0.8	12		
TOTAL	3,775	1.6	588	2.2	4,363	1.6	235		

Note: ASX announcement 21 September 2015 - 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.