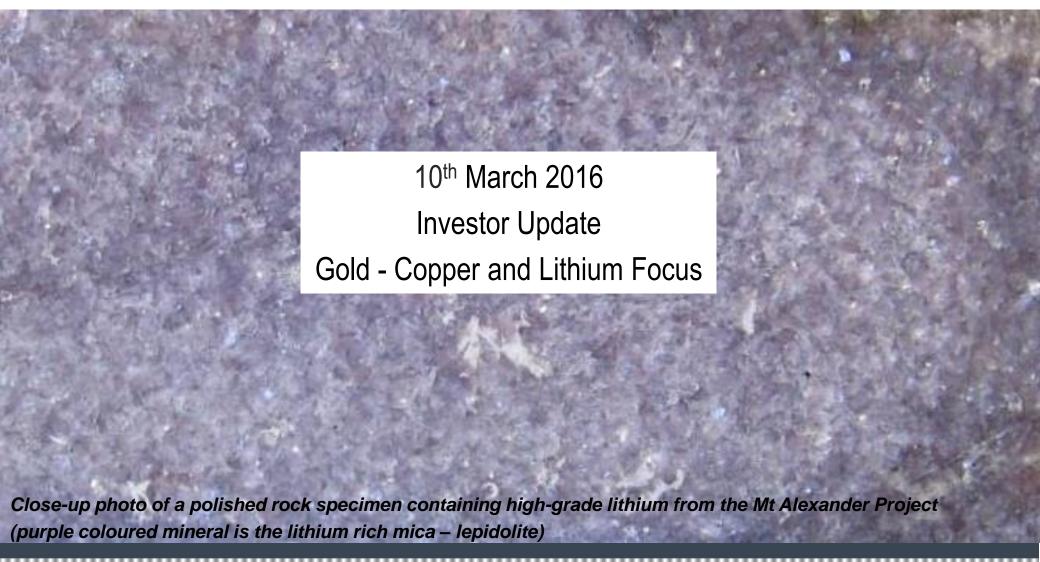


Zenith Minerals Limited

ABN 96 119 397 938





Disclaimer

Forward looking statements

Some statements in this presentation regarding estimates or future events are forward looking statements. They involve risk and uncertainties that could cause actual results to differ from estimated results. Forward-looking statements include estimates of future production, reserve and mineralised material estimates, capital costs, and other estimates or prediction of future activities. They include statements preceded by words such as "believe", "estimate", "expect", "intend", "will" and similar expressions. Actual results could differ materially depending on such things as political events, labour relations, currency fluctuations and other general economic conditions, market prices for Zenith Minerals Limited products, timing of permits and other government approvals and requirements, change in operating conditions, lower than expected ore grades, unexpected ground and mining conditions, availability and cost of materials and equipment, and risks generally inherent in the ownership and operation of mining properties and investment in foreign countries.

Information presented is a summary

This presentation aims to provide a high level summary of various technical aspects of the Company's projects. For more details on the underlying technical parameters the reader is referred to the ASX Reports on the Zenith Minerals Limited's website: www.zenithminerals.com.au

JORC competent persons statements

The information in this Report that relates to in-situ Mineral Resources at the Develin Creek project is based on information compiled by Ms Fleur Muller an employee of Geostat Services Pty Ltd. Ms Muller takes overall responsibility for the Report. She is a Member of the AusIMM and has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity she is undertaking, to qualify as a Competent Person in terms of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code 2012 Edition). Ms Muller consents to the inclusion in the report of the matters based on her information in the form and context in which it appears.

The information in this report that relates to Zenith Exploration Results is based on information compiled by Mr Michael Clifford, who is a Member of the Australian Institute of Geoscientists and an employee of Zenith. Mr Clifford 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 a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Clifford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



Corporate Structure

Capital Structure – ASX: ZNC	
Share Price (as at 8 th March 2016)	\$0.044
Shares on Issue (post-rights issue*)	166.3m*
Market Capitalisation (post-rights issue*)	\$8m*
Unlisted Options (\$0.1-\$0.29 Exercise price)	21.1m*
Cash (proforma 31 Dec15 + \$400k capital raise + rights issue)	\$1.8m*

^{*}On a fully subscribed basis

Major Shareholders**	
HSBC Custody. Nom.	7.8%
Nada Granich	6.4%
Miquilini	5.4%
GDR PL	4.4%



Geologist, substantial prior experience at Aberfoyle Resources Ltd (1980-98) then MD at Giralia Resources NL (1998-2011 - \$828m takeover). Chairman of Gascoyne Resources Ltd.

Mick Clifford - Managing Director

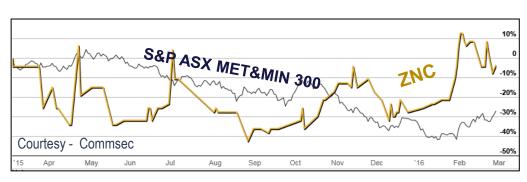
Geologist, >25 years experience, Billiton Australia, Acacia Resources & AngloGold Ashanti. MD of PacMag Metals Ltd (2005 – 2010 - \$50m takeover).

Stan Macdonald - Non-Executive Director

Industry veteran, founded numerous ASX listed companies including Giralia Resources NL, Director of Gascoyne Resources Ltd.

Julian Goldsworthy - Non-Executive Director

Geologist, currently GM Business Development at Gascoyne Resources Ltd. Substantial experience with Newcrest Mining, Newmont Australia (1986-2007) and Giralia Resources NL (2007-2011).



Mike Joyce - Non-Executive Chairman

^{**}Pre-rights issue

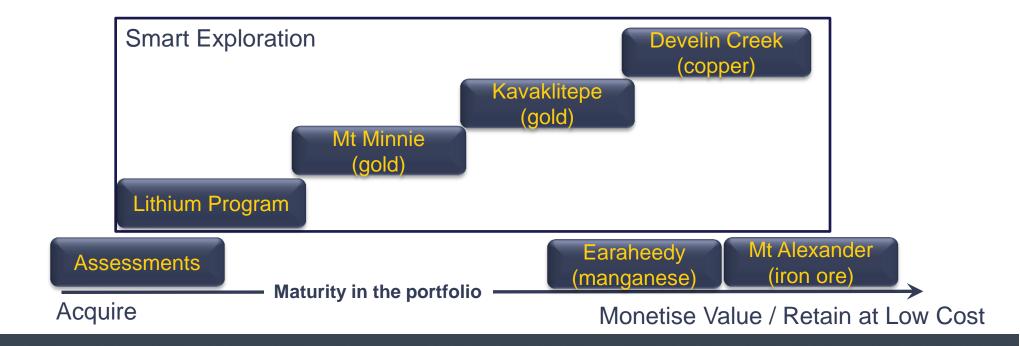


Clear Strategy for Growth

Zenith has a clear strategy for adding value for shareholders.

- 1. Acquire projects near bottom of market;
- 2. Undertake low cost smart exploration to add real value;
- 3. Monetise through development, joint venture, spin out or divestment or retain projects at low cost until market rebounds.

Focus on lithium and copper-gold projects in the portfolio





Zenith's Projects

Develin Creek – Copper-Zinc-Gold-Silver

- Massive copper-zinc-gold sulphide bodies at Sulphide City and Scorpion
- Inferred Mineral Resource 2.57Mt @ 1.76% copper, 2.01% zinc, 0.24g/t gold & 9.6g/t silver (Feb 2015)
- New drilling indicates potential under-call of historic percussion drilling grades
- Regional geochemical screening continuing (total 10,000 samples to date)
- 3 new prospects identified from soils and mapping (Huntsman Prospect up to 1.1% copper)

Kavaklitepe Gold

- New JV partner Teck
- 54m @ 3.33g/t Au in continuous rock chip samples
- Operating licence received, drill & trench permits submitted

Mt Minnie Gold

- Discovery of high-grade gold in quartz veins (21.5, 17.7 and 11.5 g/t gold)
- New gold in soil anomaly defined (requires trenching/drilling)

Lithium Program

- Mt Alexander high-grade lithium surface samples to 4.05%Li₂O follow-up planned
- New projects under assessment

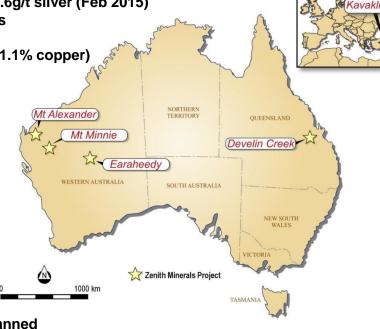
Retention leases/ applications to preserve project opportunities at low ongoing cost

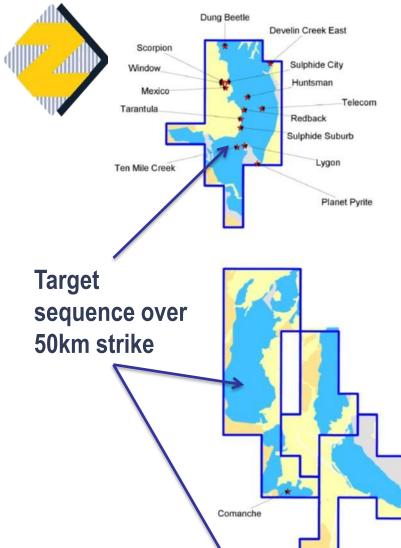
Earaheedy – Manganese

- Inferred Mineral Resource -Red Lake 1.1Mt @ 20.8% Mn (Sep 2014)
- Inferred Mineral Resource Lockeridge 2.6Mt @ 20.6% Mn (Apr 2015)

Mt Alexander - Iron

- Inferred Mineral Resource Mt Alexander 565.7Mt @ 30.0%Fe (Oct 2015)
- Inferred Mineral Resource Mt Alexander West 25.9Mt @ 22.7%Fe (Jun 2015)





Develin Creek

GEOLOGY

Wilsons

Cover Sequences

Late Permian and Younger Formations

Rookwood Volcanics (Early Permian) Carboniferous and Older Formations

Ownership: Location: Stage:

51-100% Queensland Commodity: Cu-Zn-Ag-Au Resource

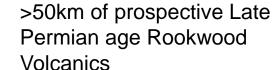
Cyprus/Beshi style basalt hosted volcanogenic massive sulphide deposits



Massive sulphide deposits at Sulphide City and Scorpion



Footwall stringer copper zone at Window



Degrussa-Monty deposits analogy (VMS in basaltpepperite host rocks)



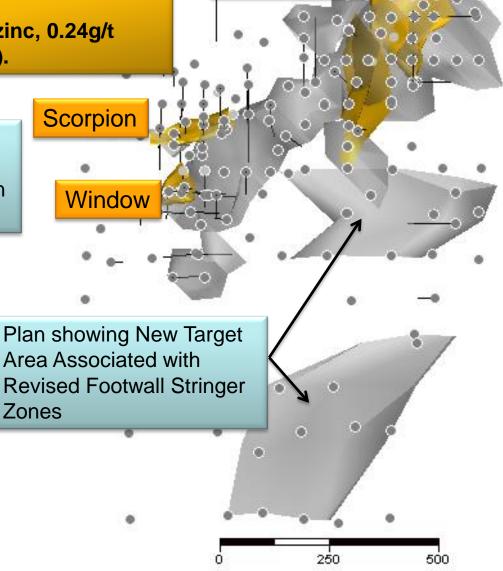


Develin Creek - Plan

Inferred Mineral Resource: 2.57Mt @ 1.76% copper, 2.01% zinc, 0.24g/t gold and 9.6g/t silver (Feb 2015).

Zenith RC drilling indicates potential significant upgrade in copper, zinc, gold and silver grades (3 to 7 times) compared with historic percussion drilling – further twin holes planned

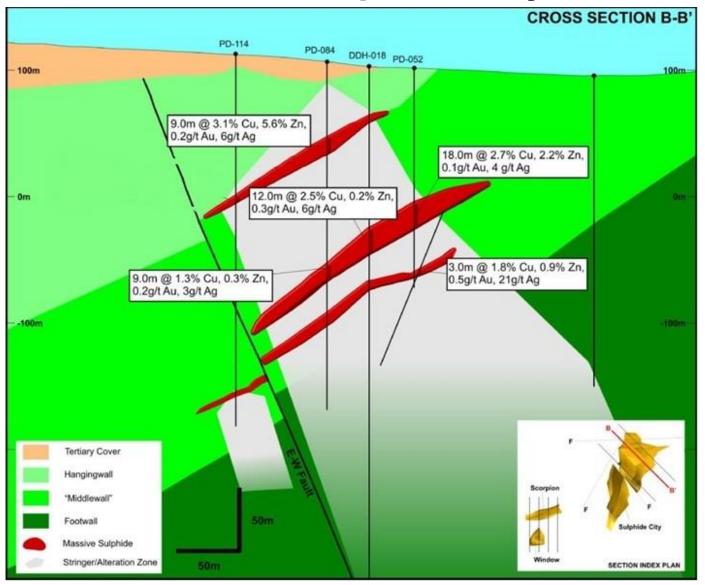




Sulphide City

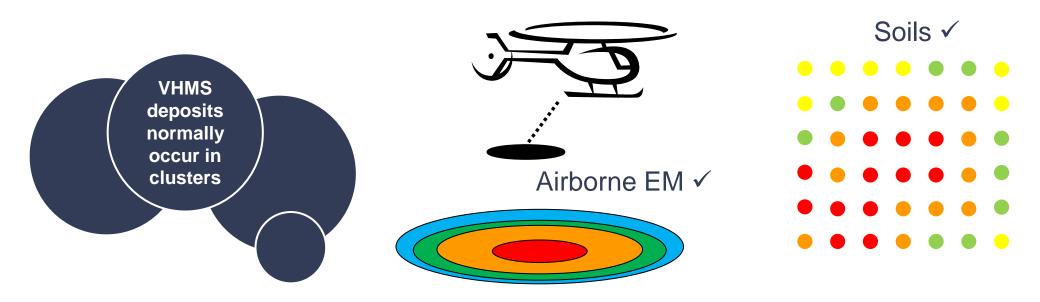


Develin Creek; Sulphide City - Cross Section





Exploration Tools

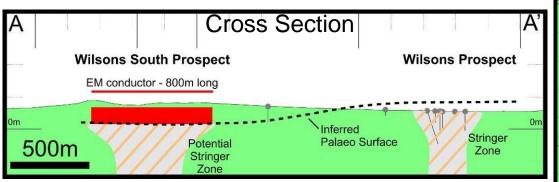


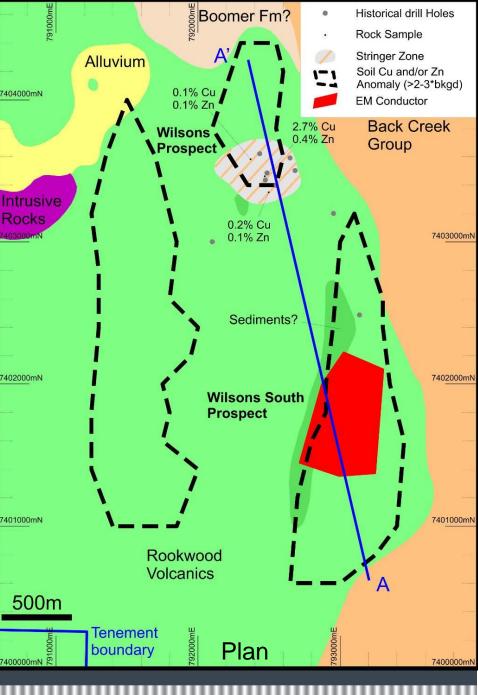
- Geology including understanding host sequences, deposit morphology
- Geophysics IP, EM & spectral ASD
- Geochemistry surface geochem, gossan signatures, multi-element geochem & lithogeochem
- Integrated approach



Wilsons South Drill Target

Coincident EM and Geochemical Anomaly

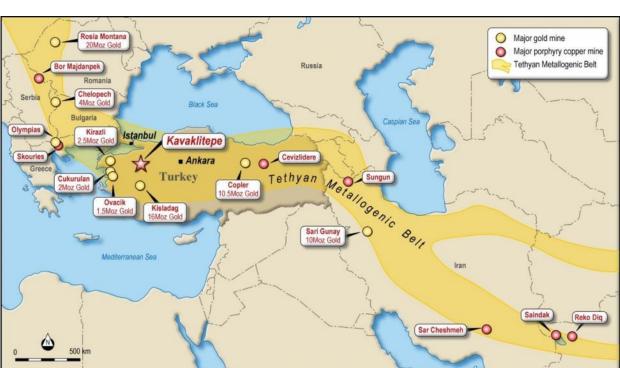






Kavaklitepe

Ownership: Teck Earning70%
Location: Turkey
Commodity: Gold
Stage: Drill Target



Discovered in 2013



Coincident IP and rock/soil anomaly

New JV Partner – Teck
Zenith free carried for first \$700k of expenditure
Awaiting drill permits from Turkish Govt
No drilling Teck/Zenith planning first holes

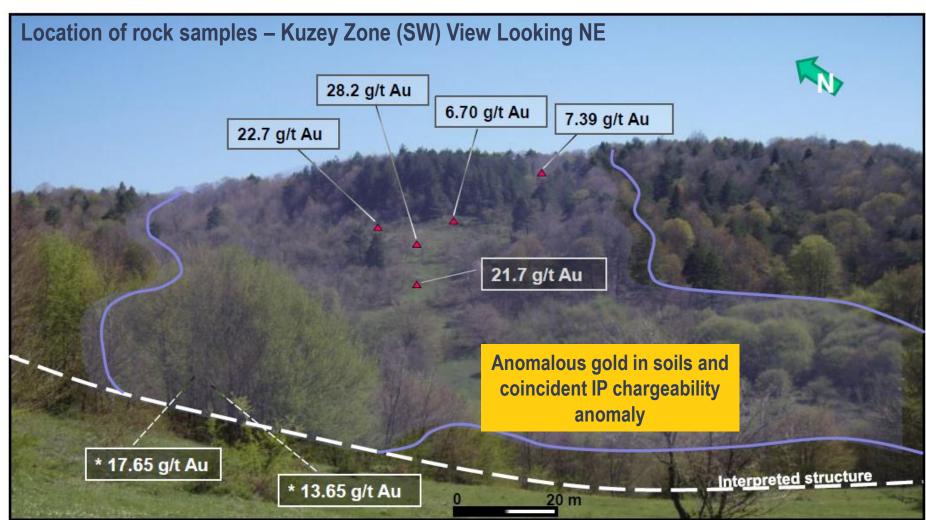
Turkey -Europe's largest gold producer

Highly endowed Tethyan Metallogenic Belt Ranked 8 out of 96 by Frazer Institute



Kavaklitepe

Ownership: Teck Earning70%
Location: Turkey
Commodity: Gold
Stage: Drill Target



^{*} Samples behind trees



Kavaklitepe

Ownership: Teck Earning70%
Location: Turkey
Commodity: Gold
Stage: Drill Target

Soil Image Legend Gradient IP Legend **KUZEY ZONE** > 128 ppb 54m @ 3.33 g/t Au 21.5m @ 7.2 g/t Au Continuous Rock Chips **Kuzey Zone Rock samples** 54m @ 3.33g/t Au incl 7.39g/t, 5.03g/t 21.5m @ 7.2g/t Au (continuous rock chip) < 2 ppb Gold in Soil Anomaly Chargeability, Mv/v DISCOVERY ZONE 21m @ 2.67 g/t Au **IP Surveys** Continuous Rock Chips camera location (previous slide) **Guney Zone** 1000m strike length Coincident IP anomaly Rock Samples - Au (g/t) to 28.7 0.5 to 2 **▲** < 0.5 Soil Samples - Au (ppb) • 128 to > 1.000 64 to 128 800m 32 to 64 • 16 to 32 8 to Trenching/drilling planned 2016 •<8

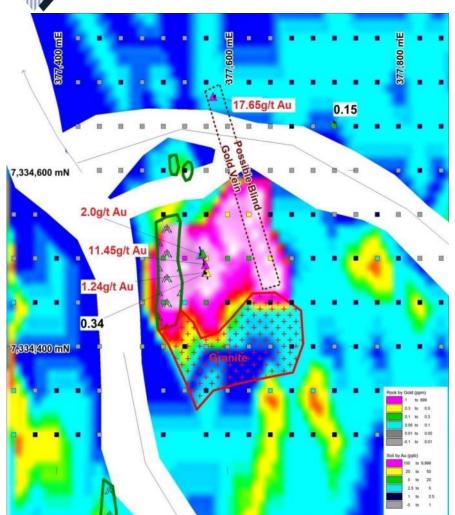
Discovery Zone

400m strike length 21m @ 2.67g/t Au (continuous rock chip)



Mt Minnie

Ownership: 100% Location: WA Commodity: Gold Stage: Reconnaissance



New geological model prospective for reduced intrusion related gold deposits



Mid-Proterozoic granite host

High-grade rock samples include: 21.5, 17.7 and 11.5 g/t gold

New gold in soil anomaly in predominantly sand covered area

Trenching/drilling planned in 2016

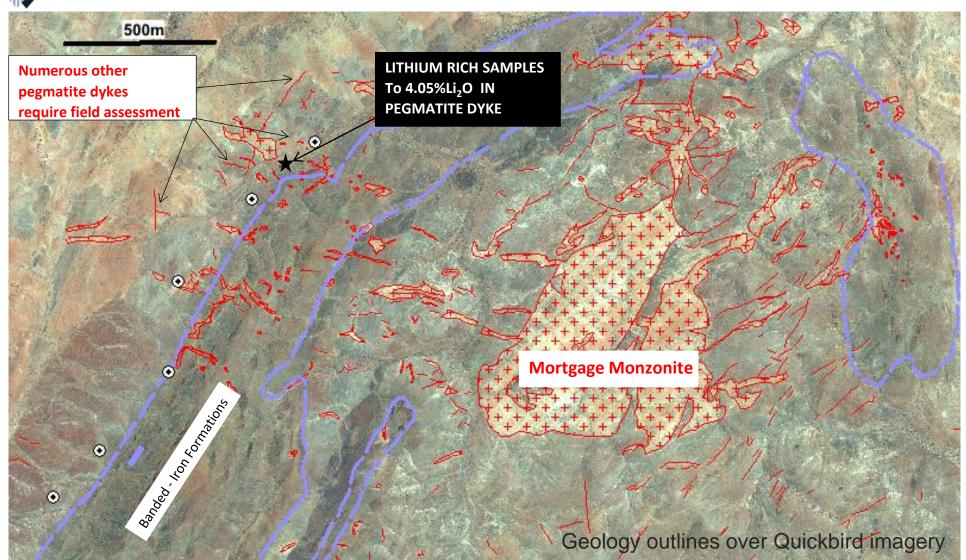


Woods Prospect Gold in Soil Anomaly (Triangles = rock samples, squares = soil samples, green polygons = dolerite dykes, red hatched polygons = granite outcrop)



Mt Alexander - Lithium

Ownership: 100% Location: WA Commodity: Lithium Stage: Reconnaissance





High-Grade Lithium - Mt Alexander

- High-grade lithium samples (up to 4.05% Li₂O) at Zenith's 100% owned Mt Alexander Project;
- Seven rock chip samples with lithium oxide assays ranging from 3.38%Li₂O to 4.05% Li₂O and tantalum oxide assays from 0.023% Ta₂O₅ to 0.034%Ta₂O₅ from a reported lepidolite rich pegmatite dyke;
- The pegmatite dyke that has been sampled is one of more than 100 pegmatite and granite dykes that form a 2 kilometre x 2.5 kilometre radiating swarm surrounding the Mortgage Monzonite intrusive stock. The other pegmatite dykes do not appear to have been systematically mapped or sampled for lithium or tantalum;
- The seven samples are from a batch of only 10 samples known to have been analysed for lithium from the Mt Alexander Project, where the recent focus by Zenith has been on iron ore; and
- Surface mapping and sampling along with an assessment of existing drill samples is planned as pegmatite was recorded in multiple drill holes during the Mt Alexander iron ore resource drilling programs.



Investment Summary

Massive copper-zinc sulphides Wilsons South EM-geochem drill target Drilling for metallurgy samples at Sulphide City Drilling planned – 3rd^d qtr 2016

Develin Creek (copper)

High-grade lithium Rocks, soils and mapping planned 2016

Mt Alexander (lithium)

High-grade gold Rocks and soils Trenching / drilling planned 2016

> Mt Minnie (gold)

High-grade gold Rock chips and soils Trenching & drilling planned 2016

Kavaklitepe (gold)

Ongoing
Upgrades to portfolio – new lithium focus

Assessments

Maturity in the portfolio

High-grade Mn resources
Retention status

Large, well located iron resource Retention status

Earaheedy (manganese)

Mt Alexander (iron ore)

Monetise Value / Retention at Low Cost

Acquire



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ZNC



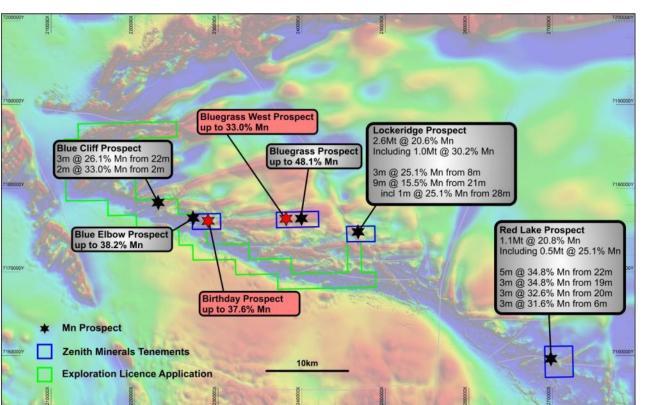
Supplementary Slides



Earaheedy Manganese

Ownership: 100% Location: WA Commodity: Manganese Stage: Resources





Zenith completed first drilling for Mn in Earaheedy

- Shallow dipping oxide; and
- Carbonate (Kalahari Basin style) mineralisation

Manganese both structurally controlled and stratiform.

Inferred Mineral Resources:

- Red Lake 1.1Mt @ 20.8% Mn (Sep 2014)
- Lockeridge 2.6Mt @ 20.6% Mn (Apr 2015)

Drill intersections include:

- 3m @ 41.0% Mn within 5m @ 34.8% Mn from 22m
- 1m @ 40.2% Mn within 3m @ 30.7% Mn from 3m
- 2m @ 38.4% Mn within 3m @ 32.6% Mn from 20m
- 1m @ 42.3% Mn within 3m @ 34.8% Mn from 19m

New discoveries:

Bluegrass, Bluegrass West, Blue Elbow & Birthday

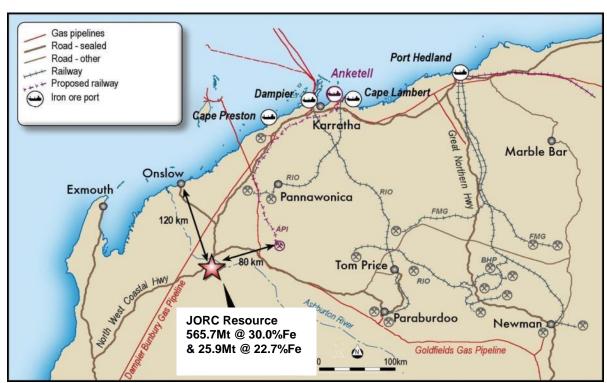
Focused tenement strategy



Mt Alexander Magnetite

Ownership: Location: Commodity: Stage: 100% WA Iron Ore Resources





Well located close to – sealed roads, gas pipelines, only 120km from coast near Onslow (Mitsui, Chevron ports)

Base case in 2011 Scoping study - slurry pipeline, tranship by barge to vessel offshore

Only 80km to API JV (Baosteel -AMCI) West Pilbara proposed railway to Anketell Port – third party access.

Advantages over other WA magnetite deposits:

- location close to coast and infrastructure
- coarser grained = better beneficiation +40 micron grind size

Inferred Mineral Resources:

- Mt Alexander 565.7Mt @ 30.0%Fe (Oct 2015)
- Mt Alexander West 25.9Mt @ 22.7%Fe (Jun 2015)

Additional very large exploration target

Key tenure retained