



Orion Minerals

Orion Minerals Limited

Investor presentation
May 2018

**BFS & intense regional exploration
underway, delivering results in a proven
minerals belt**

Developing world class zinc and
copper deposits

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- *may include, among other things, statements regarding targets, estimates and assumptions in respect of metal production and prices, operating costs and results, capital expenditures, mineral reserves and mineral resources and anticipated grades and recovery rates, and are or may be based on assumptions and estimates related to future technical, economic, market, political, social and other conditions.*

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OVERVIEW

WHAT WE DO

Orion Minerals is a polymetallic minerals exploration and development company focusing on zinc, copper, nickel, gold and silver, as well as platinum-group metals with projects in South Africa and Australia

Orion's flagship project is the Prieska Zinc - Copper Project in the Areachap Terrain, Northern Cape, South Africa

The Company has a primary listing on the Australian Securities Exchange (ASX: ORN) and a secondary listing on the Johannesburg Stock Exchange (JSE: ORN)

Areachap Projects
Northern Cape, South Africa

Independence Group (IGO)
Becomes strategic partner,
May 2018

South African Offices:
Kimberley, Northern Cape
Prieska, Northern Cape

Australia Head Office:
Melbourne, Victoria

Fraser Range Project
Western Australia,
Australia

JV with IGO
(March 2017)

Connors Arc Project
Queensland, Australia
Sold to Evolution Mining (EVN)
(May 2018)



ORION CORPORATE SUMMARY

ASX primary listing JSE secondary listing

Capital Structure Summary	
Shares on Issue ⁽⁴⁾	1,390M
Options on Issue	218M
Market Capitalisation (4.4cps (ASX)) ⁽¹⁾	A\$61.2M
Bridge Loan (12% interest, 31 May 2018 term) ⁽²⁾	A\$6.0M
Convertible Notes (2.6 cps convert, 12% coupon, March 2019 maturity) ⁽³⁾	A\$6.0M
AASMF Loan ⁽³⁾	A\$1.5M
AASMF Preference Shares ⁽³⁾	A\$2.1M
Cash on hand (at 31 March 2018) ⁽⁴⁾	A\$1.6M

Significant Holder Name	%
Tembo Capital	18.56
Independence Group NL	11.09
Tarney Holdings	7.41
Hargreave Hale Ltd	6.00
Silja Investment and Alexander Haller	4.97
Significant Holder Total	48.03

Independence Group (IGO):

- Increased shareholding in ORN to 11% through a A\$5M share placement⁽⁴⁾
- Entered into collaborative agreement in respect of ORN's nickel projects in South Africa



(1) Closing price of ORN Shares on the ASX on 25 May 2018. Closing price of ORN Shares on the JSE on 24 May 2018 was ZAR 0.48

(2) Refer to ASX releases 18 August 2017 and 15 November 2017 for additional information. As at 31 March 2018, \$4.56M had been drawn down against the Bridge Loan

(3) Refer to the Company's December 2017 Interim Financial Report for information related to the Convertible Notes, along with the Preference Shares Agreement (ZAR15.75M) and a Loan Agreement (ZAR14.25M) that Repli Trading No 27 (Pty) Ltd (a 73.33% owned subsidiary of Agama Exploration & Mining (Pty) Ltd) has entered into with Anglo American Sefa Mining Fund

(4) On 2 May 2018, ORN sold its Connors Arc Project to EVN for A\$2.5M cash and a 2% NSR gold royalty from the project to a value of A\$5M. On 21 May 2018, ORN issued IGO 100M shares at 5cps raising A\$5M

(5) Mr Alexander Haller is deemed to have a relevant interest in securities held by Silja Investment Ltd

FOCUSED ON THE RE-DEVELOPMENT OF THE PRIESKA ZN-CU PROJECT



FY18 IN REVIEW STRONG PROGRESS MADE ACROSS BUSINESS

Prieska

- **Maiden JORC Mineral Resource***
Over 50,000m of drilling resulted in a maiden JORC Mineral Resource of 29.4Mt @ 3.8% Zinc, 1.2% Copper
- **Significant Infrastructure in place**
Detailed engineering assessments confirm the integrity of the main hoisting shaft
- **Mining Right Application**
Lodged, April 2018
- **Metallurgical test work**
Flowsheet development phase of metallurgical studies completed successfully. Validation and optimisation work underway
- **Ongoing drilling**
Targeting upgrade of Mineral Resource

Development Projects

- **Independence Group (IGO) secures Joint Venture rights**
– IGO have preferential rights should Orion decide to JV or sell any of its nickel projects
– IGO increased shareholding in ORN to 11% through a \$5M share placement and collaborative working relationship formed between ORN and IGO to enhance ORN's planned regional exploration programs within the Areachap Belt, South Africa
- **Airborne electromagnetic survey (AEM)**
Identified several high priority targets for follow up work
- **Masiqhame & Namaqua-Disawell**
Provides significant potential to operate as satellite deposits to Prieska in the future

Fraser Range

- **Secured strong JV partner IGO in 2017**
Successfully working a major, regional scale interpretation, of the geological framework of the Albany Fraser Orogen
- **IGO**
Is responsible for all exploration on the tenements, providing regular updates to ORN of its activities and results



BOARD OF DIRECTORS



DENIS WADDELL

Chairman

- Chartered Accountant
- Extensive experience in corporate finance and management of exploration and mining companies



ERROL SMART

*Managing Director &
Chief Executive Officer*

- Geologist, with professional registration for JORC purposes
- Over 24 years' industry experience in exploration, mine development and operations



ALEXANDER HALLER

Non-Executive Director

- Partner of Zachary Capital Management that provides advisory services to private investment companies
- Ex-JP Morgan advisor on corporate mergers and acquisitions



MARK PALMER

Non-Executive Director

- Investment banker with 12 years' experience working with entities in Australia
- Investment director at Tembo Capital since 2015



MICHAEL HULMES

Non-Executive Director

- Mining engineer with over 30 years' experience in the mining industry
- Extensive experience in zinc, copper, gold and nickel mining operations



SENIOR MANAGEMENT



**ERROL
SMART**

*Managing Director &
Chief Executive Officer*

- Geologist, with professional registration for JORC purposes
- Over 24 years' industry experience in exploration, mine development and operations



**MARTIN
BOUWMEESTER**

*Chief Financial Officer
and Company Secretary*

- Fellow of CPA Australia with over 20 years' experience in exploration, mine development and operations
- Evaluation, funding and development of the Fosterville Gold Mine



**WALTER
SHAMU**

Chief Operating Officer

- Mining engineer with a B.Eng (Mining Engineering) and Masters in Engineering (Rock Mechanics), as well as LLB (Law)
- Over 20 years' experience in exploration, mining development and mining operations throughout Africa



**MICHELLE
JENKINS**

*Executive: Finance &
Administration*

- Chartered Accountant with over 20 years' experience in exploration and mining, with a BSc Hons (Geology) and a Bachelor of Accounting Science
- Held the role of Chief Financial Officer/ Financial Director with a number of exploration and mining companies throughout Africa



**LOUW
VAN SCHALKWYK**

*Executive:
Exploration*

- Geologist with over 30 years' experience with major South African mining houses
- Part of the team that discovered the 60Mt Gamsberg East Zinc deposit in the Northern Cape
- Discovered the Byumba Gold deposit in Rwanda in 2008



**NELSON
MOSIAPOA**

*Group Corporate Social
Responsibility Advisor*

- Founder and Trustee of the Mosiapo Family Trust
- Advanced policy scholar of science and technology and served on the policy unit of the governing party in South Africa prior to the first democratic elections

ORION'S 3 PHASE ASPIRATIONAL STRATEGY AND TIMELINE



- Orion Board approval to commence Bankable Feasibility Study (BFS) in July 2017 with target completion in Q4 2018
 - Deep sulphide resource and +105 Target maiden JORC compliant Mineral Resource completed; resource upgrade targeted Q2 2018

- In parallel to BFS, Orion will progress key commercial work streams
 - Concentrate marketing; project finance capacity and optimal structure

- Mining Right and Environmental Authorisation applications submitted in April 2018
- Regional exploration to ramp up in 2018

Milestone Activities	Q3 CY17	Q4 CY17	Q1 CY18	Q2 CY18	Q3 CY18	Q4 CY18	Q1 CY19	Q2 CY19	Q3 CY19	Q4 CY19	Q1 CY20	Q2 CY20	Q3 CY20	Q4 CY20	CY2021	CY2022	
Maiden Mineral Resources Estimates	█	█	█	ASX/JSE Releases 8 Feb & 9 April 2018													
Mining Right Application					Submitted 6 April 2018		Anticipated Grant of Mining Right										
Environmental Authorisation Application (EA)	█	█	█		Submitted 6 April 2018		Anticipated Grant of EA										
Bankable Feasibility Studies	█						Project Approval										
Project Construction																	
Ore Production - Open Pit															█	█	█
Ore Production - Underground																	█

MINING RIGHT APPLICATION PROCESS – STATUTORY TIMELINES



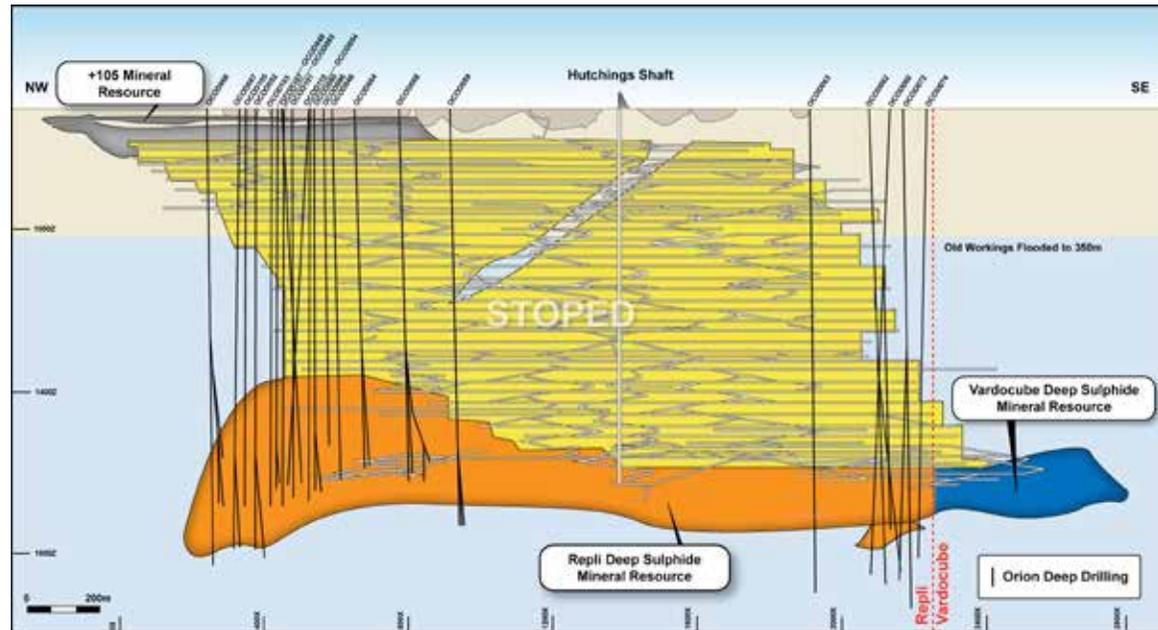
PRIESKA PROJECT – MAIDEN JORC MINERAL RESOURCE EXCEEDS EXPECTATIONS

Total Mineral Resource of 29.4Mt containing 1,126,000 tonnes Zn @ 3.8% and 365,000 tonnes Cu @ 1.2% (based on drilling results available as at 31 Dec 2017)*

Drilling is ongoing, with the objective of achieving an upgrade in the classification of a substantial portion of the total Mineral Resource and to test the currently open extensions of the deposit

The total Mineral Resource is located on the Repli and recently obtained Vardocube Prospecting Rights

Resource remains open on dip and strike



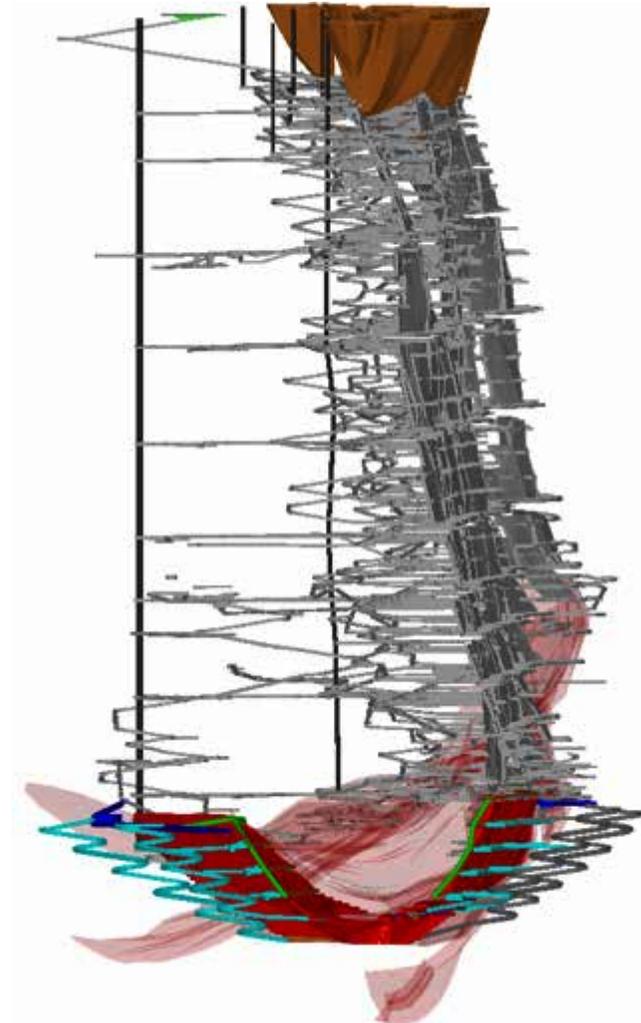
Global Mineral Resource For Prieska Project - Repli Trading No 27 (Pty) Ltd & Vardocube (Pty) Ltd

Classification	Tonnes	Zn		Cu		Ag		Au		
		Metal Tonnes	Grade (%)	Metal Tonnes	Grade (%)	Metal Ounces	Grade (g/t)	Metal Ounces	Grade (g/t)	
Deep Sulphide Repli	Inferred	22,600,000	839,000	3.7	266,000	1.2	6,904,000	9.5	153,000	0.2
Deep Sulphide Vardocube	Inferred	5,200,000	253,000	4.9	67,000	1.3	1,627,000	9.7	35,000	0.2
+105 Supergene Repli	Indicated	1,200,000	32,000	2.6	30,000	2.4	348,000	8.7	9,000	0.2
+105 Oxide Repli	Inferred	300,000	2,000	0.9	2,000	0.6	17,000	1.8	1,000	0.1
Total Global		29,400,000	1,126,000	3.8	365,000	1.2	8,896,000	9.4	198,000	0.2

Note All Resources Stated at Zero Cut-off. All masses rounded to thousands which may result in rounding errors

DEVELOPMENT PLAN FOR THE PRIESKA PROJECT: LEVERAGE EXTENSIVE EXISTING INFRASTRUCTURE

- Primary shafts and underground decline roadways in place to access deepest remaining targets
- Sealed access roads to project site
- 48km via bitumen road to existing rail siding
- 175MW operational solar power plants in the area
 - additional 675MW have been approved, with further 300MW pending authorisation
 - 4 HV regional lines linked to national electricity grid
- 800km rail link to major, bulk commodity and deep water port at Saldanha Bay
- Bulk water pipeline supplies site
 - sourced from Orange River with all year pumping capacity
- Good contractors accommodation available in the private village of Copperton, ~3km from project site
- Low regional environmental sensitivity
 - existing disturbed/rehabilitated mine footprint

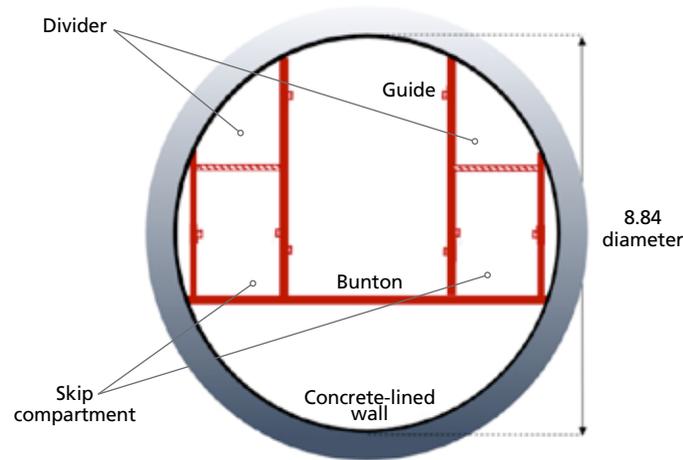


DETAILED ENGINEERING APPRAISAL CONFIRMS INTEGRITY OF KEY INSTALLATIONS AT PRIESKA PROJECT - SIGNIFICANT CAPITAL COST AND TIME SAVING

Shaft barrel, lining and steelwork structurally sound



Plan view photograph of Hutchings Shaft



Plan view schematic of Hutchings Shaft

Decline roadways and haulages in good condition and accessible



Surface portal access



Underground bunton divider steel thickness



Section through retrieved underground bunton divider steel thickness



Location of removed section from underground bunton



Existing underground haulage

ORION'S METALLURGICAL TEST WORK CONFIRMING EXPECTATIONS AT THE PRIESKA PROJECT

SCOUTING PHASE

Confirm amenability to flotation

Test Description		Test Head Grade		Total Recovered to Concentrate			Combined Tails		
		Cu (%)	Zn (%)	Mass (%)	Cu Rec. (%)	Zn Rec. (%)	Mass (%)	Cu (%)	Zn (%)
Cu-Rich Deeps	Rougher	2.41	2.79	37	93.5	93.4	63	0.25	0.29
Zn-Rich Deeps	Rougher	1.47	6.48	34	94.1	96.9	66	0.13	0.30
Supergene	Rougher-Cleaner	1.53	8.87	17	92.0	92.8	83	0.19	0.94

Test Description		Copper Concentrate				Zinc Concentrate			
		Cu Rec. (%)	Cu Grade (%)	Zn Rec. (%)	Zn Grade (%)	Cu Rec. (%)	Cu Grade (%)	Zn Rec. (%)	Zn Grade (%)
Cu-Rich Deeps	Rougher	89.5	12.0	22.2	3.4	4.0	0.5	71.2	10.3
Zn-Rich Deeps	Rougher	88.9	8.6	10.4	4.4	5.2	0.4	86.6	30.5
Supergene	Rougher-Cleaner	-	-	-	-	89.7	8.0	91.2	47.2



- Confirms amenability of Copperton deposit to concentration by froth flotation *refer ASX release 15 November 2017*
- Greater than 92% of metal reports to concentrate
- Deeps (hypogene) samples differentiate easily in first stage rougher float

FLOWSHEET DEVELOPMENT

Confirm differential concentrates

Test Description		Test Head Grade		Cu Circuit Recovery		Zn Circuit Recovery		Combined Tails	
		Cu (%)	Zn (%)	Cu Rec. (%)	Zn Rec. (%)	Zn Rec. (%)	Cu Rec. (%)	Cu (%)	Zn (%)
Low Fe Samples (<20% Fe)									
NW+SE Deeps Blend	Open Circuit Cleaner	0.9	4.6	83.1	1.9	93.2	10.8	0.1	0.3
Supergene Blend	Open Circuit Cleaner	2.1	3.7	73.7	7.3	88.1	20.2	0.2	0.2

Test Description		First Pass Copper Concentrate				First Pass Zinc Concentrate			
		Cu Rec. (%)	Cu Grade (%)	Zn Rec. (%)	Zn Grade (%)	Zn Rec. (%)	Zn Grade (%)	Cu Rec. (%)	Cu Grade (%)
Low Fe Samples (<20% Fe)									
NW+SE Deeps Blend*	Open Circuit Cleaner	82.1	26.7	1.7	2.8	80.1	50.0	6.1	0.8
Supergene Blend	Open Circuit Cleaner	66.2	33.4	4.7	4.1	70.9	35.6	19.6	5.6

* Estimated grades using XRF-ICP correlation - ICP results pending



- Flowsheet achieves differential flotation for Supergene and Deeps zones **refer ASX release 1 March 2018*
- Preliminary marketable concentrates achieved using only open-circuit testing
- Deeps (hypogene) samples differentiate easily in first stage rougher float

OPTIMISED CONCENTRATES VARIABILITY TESTING

Best priced products

WAY FORWARD - Test Description and Deliverables

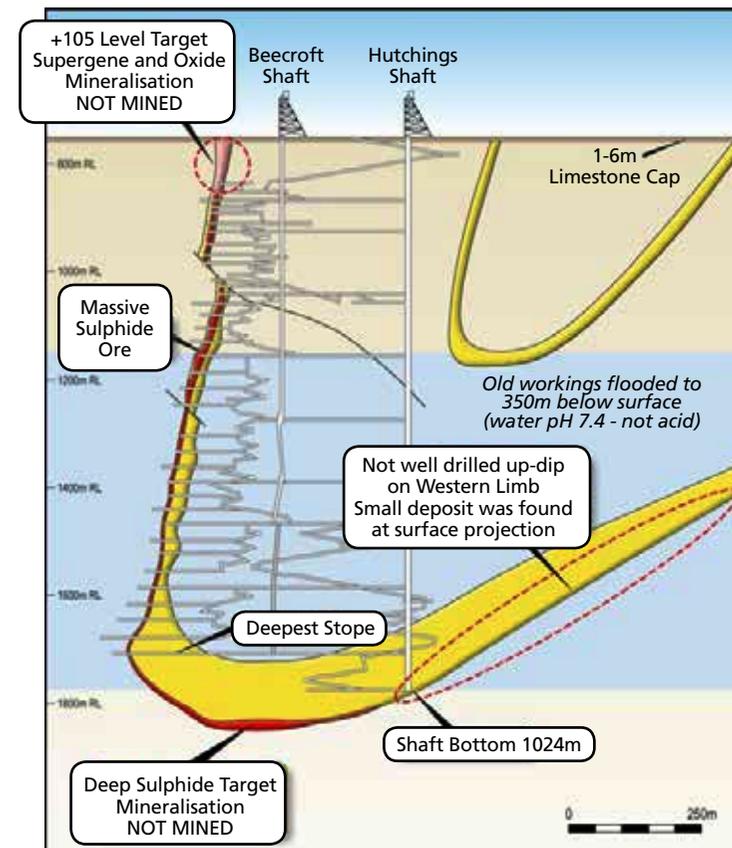
- Lock-cycle tests to produce optimised concentrate grades and metal recoveries
- Targeting >85% metal recoveries at concentrate grades of +27% copper and +50% zinc
- Variability testwork to confirm whole deposit response within design parameters
- Process optimisation option studies to investigate pre-concentration
- Detailed cost estimations for feasibility study financial modelling

MINE PLAN FOR PRIESKA PROJECT BFS

- BFS scheduled for completion in Q4 2018
 - DRA appointed as lead BFS consultant
 - ABS Africa appointed to manage EIA studies to comply with leading international standards to support project finance
- Key BFS technical project parameters include
 - Construction of 1.2mtpa throughput flotation plant to produce Zn and Cu concentrates
 - Confirm optimal sequence of open pit feed for consistency in ore presentation through oxide and high grade supergene zones
 - Confirm suitability of using drift-and-fill and longhole stoping for the mining of deep sulphide mineralisation to minimise dilution
 - Use of underground water for process & dust suppression
 - Dewatering underground while mining open pit
 - Closed, zero-discharge environmental strategy
- Mining Right and EA applications submitted 6 April 2018



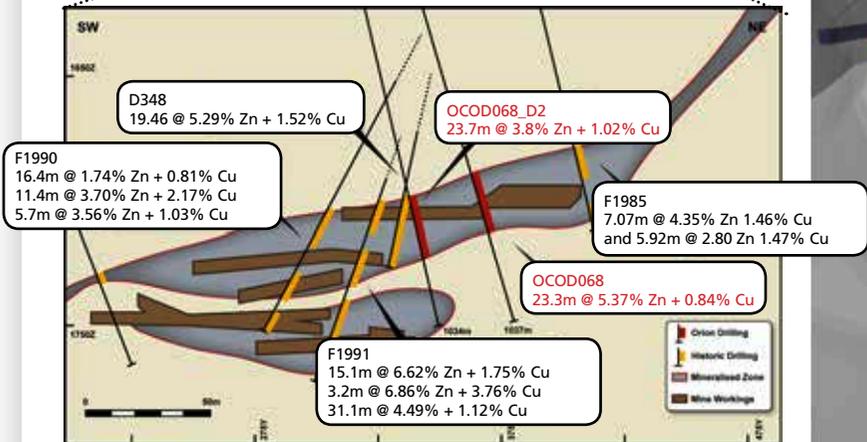
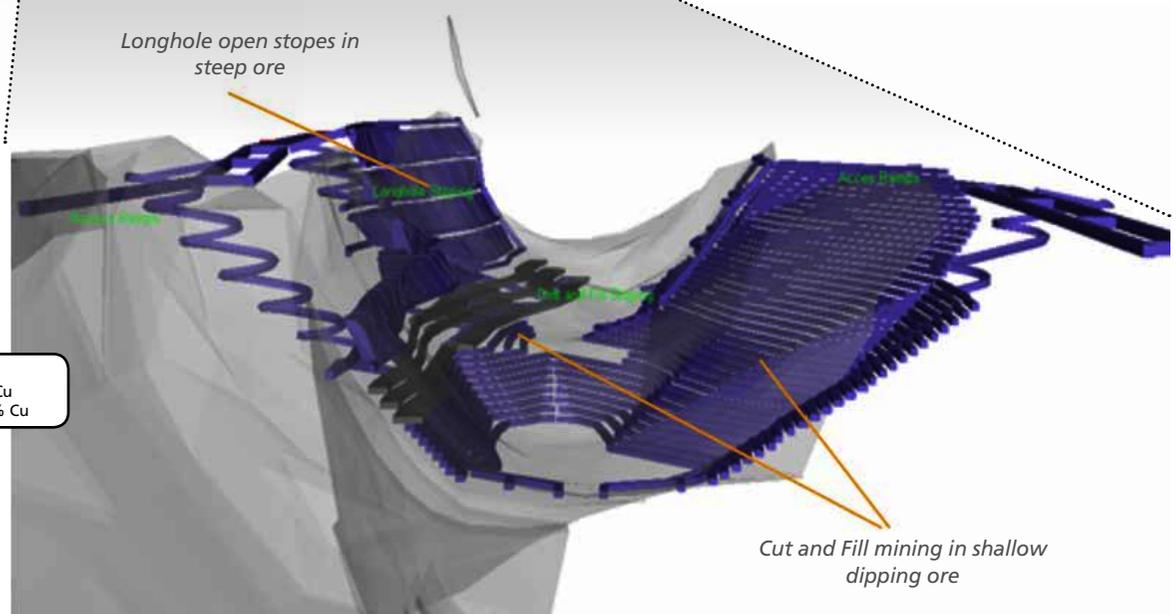
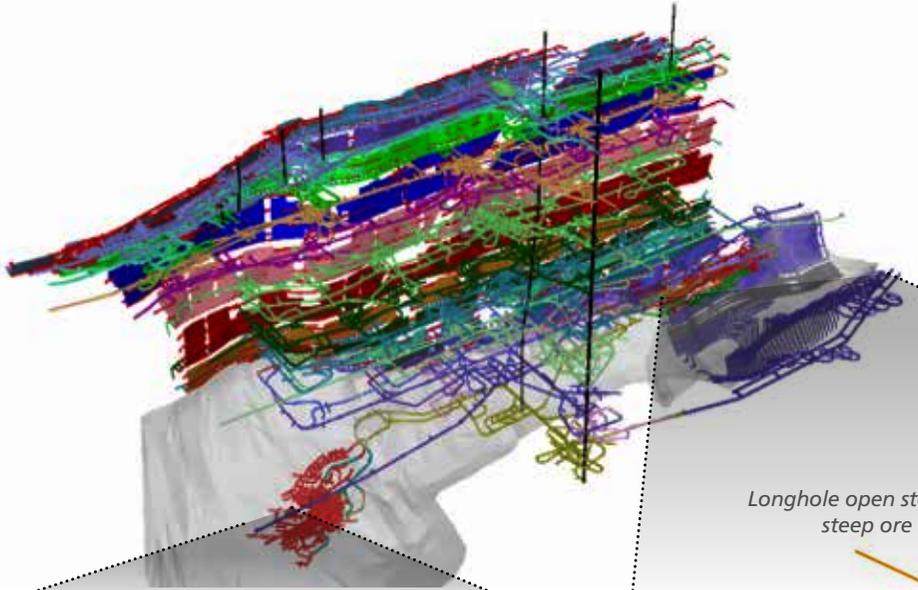
Prieska target mineralisation and existing mine infrastructure



PRIESKA PROJECT BFS: MINE PLANNING IN PROGRESS

Digital mine model completed from historic survey and geology plans

Drilling has confirmed accuracy and confidence in historic data

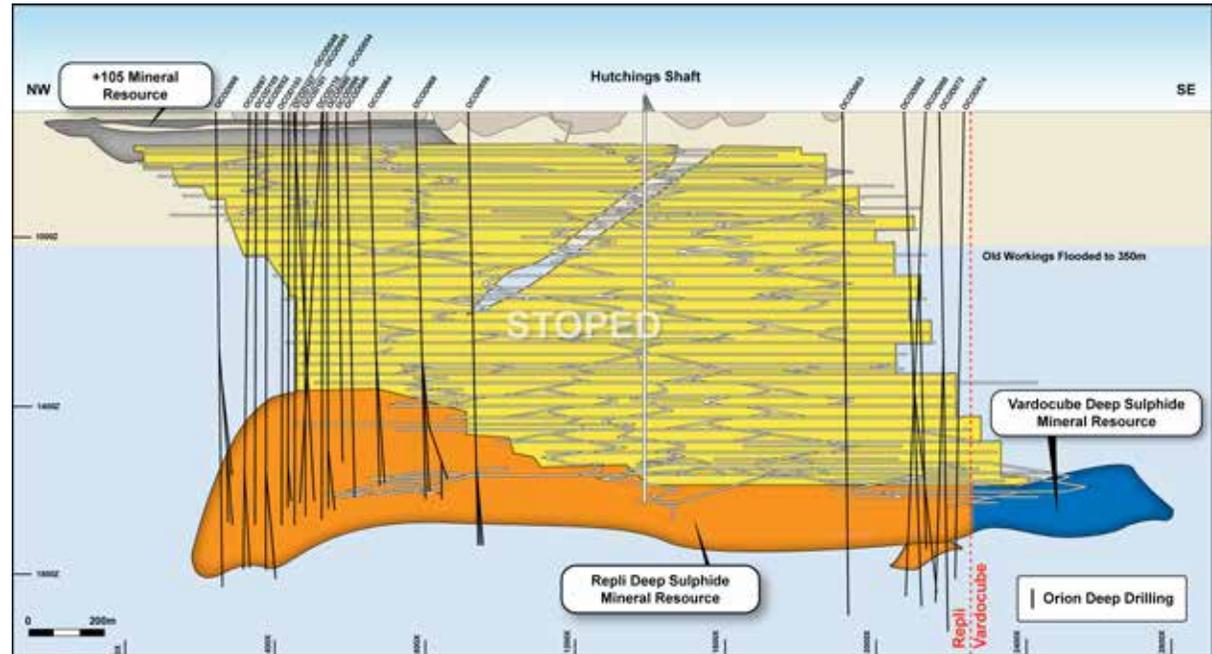


PRIESKA PROJECT BFS: EXPANDED DEEP SULPHIDE MINERAL RESOURCE

Drill rigs remain active on surface



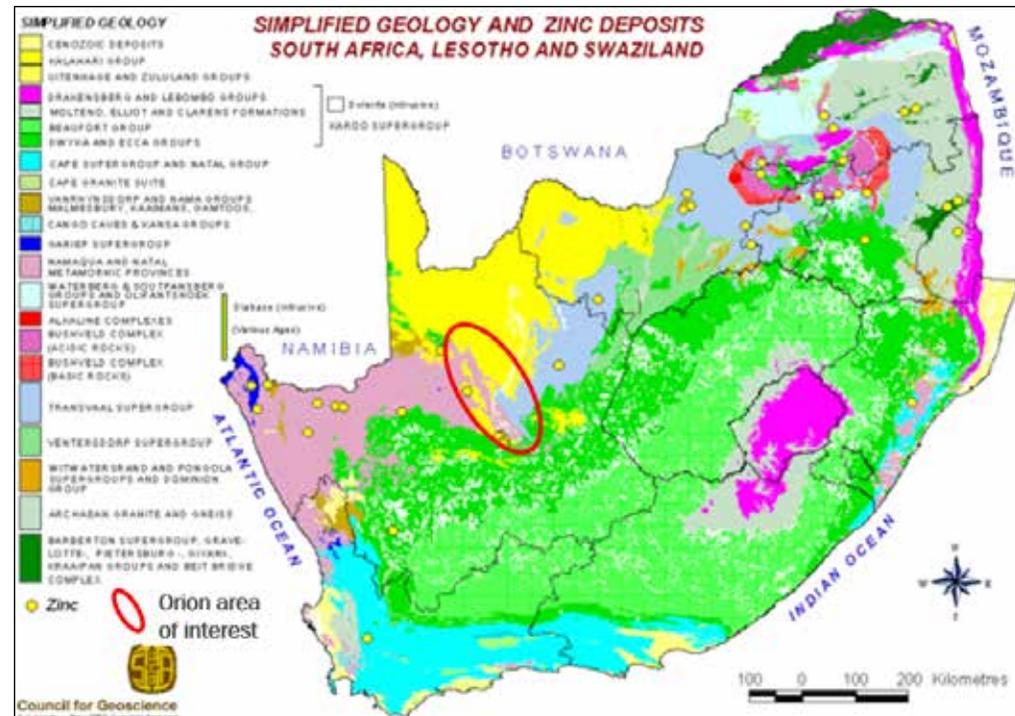
Long section with current drilling and historical development



- Dual focused drilling program
 - Continue with infill drilling to achieve drill density for resource category upgrade
 - Targeting dip and strike extensions of historically identified mineralisation with step-out drilling

EXPLORATION: THE REGIONAL POTENTIAL OF THE NORTHERN CAPE DISTRICT

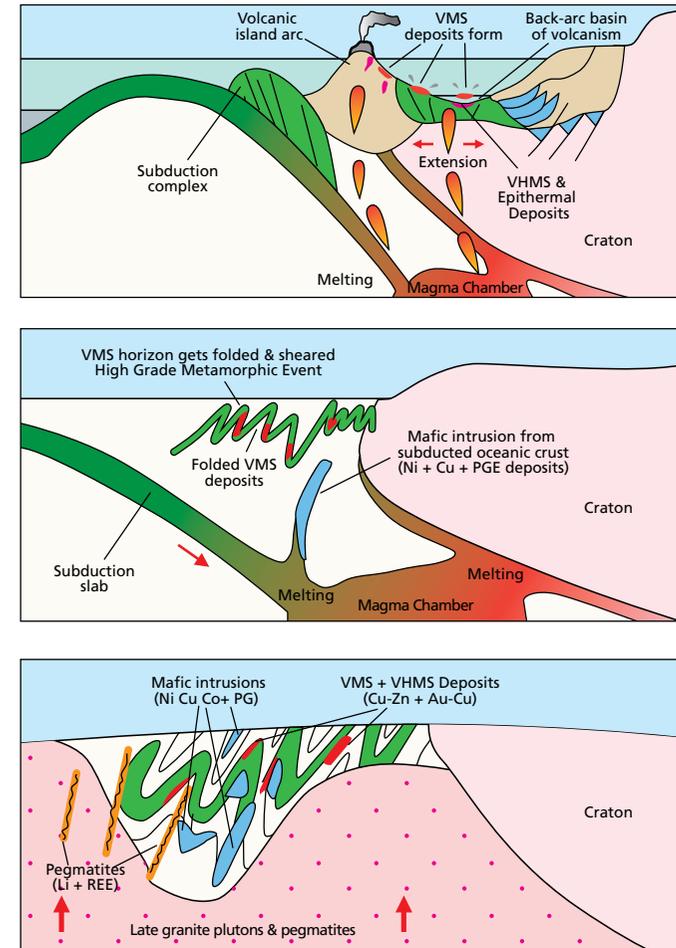
- Orion has established a commanding landholding and exploration position in the Areachap belt and is expected to play a major role in this emerging minerals district
 - Local stakeholder engagement in progress
- It is an established mining region without the social challenges common in South African mining regions
 - Local stakeholder engagement in progress
- Presence of leading global mining houses and robust institutions
- Entered into collaborative agreement with IGO in May 2018, over Orion's nickel projects
- Vedanta Resources is established and is growing its globally significant zinc business in Southern Africa
 - Gamsberg and Black Mountain mines and Skorpion refinery are the cornerstone assets which underpin Vedanta's regional operations
- The region is reputed to have the highest concentration of zinc on the African continent¹
 - Large-scale sediment hosted deposits classified as Broken-Hill, Sedex and Volcanogenic Massive Sulphide (VMS) types
 - > 40mt of contained zinc
 - It has been reported that significant potential exists in the region



EXPLORATION: AREACHAP - A HIGHLY PROSPECTIVE BASE METALS BELT

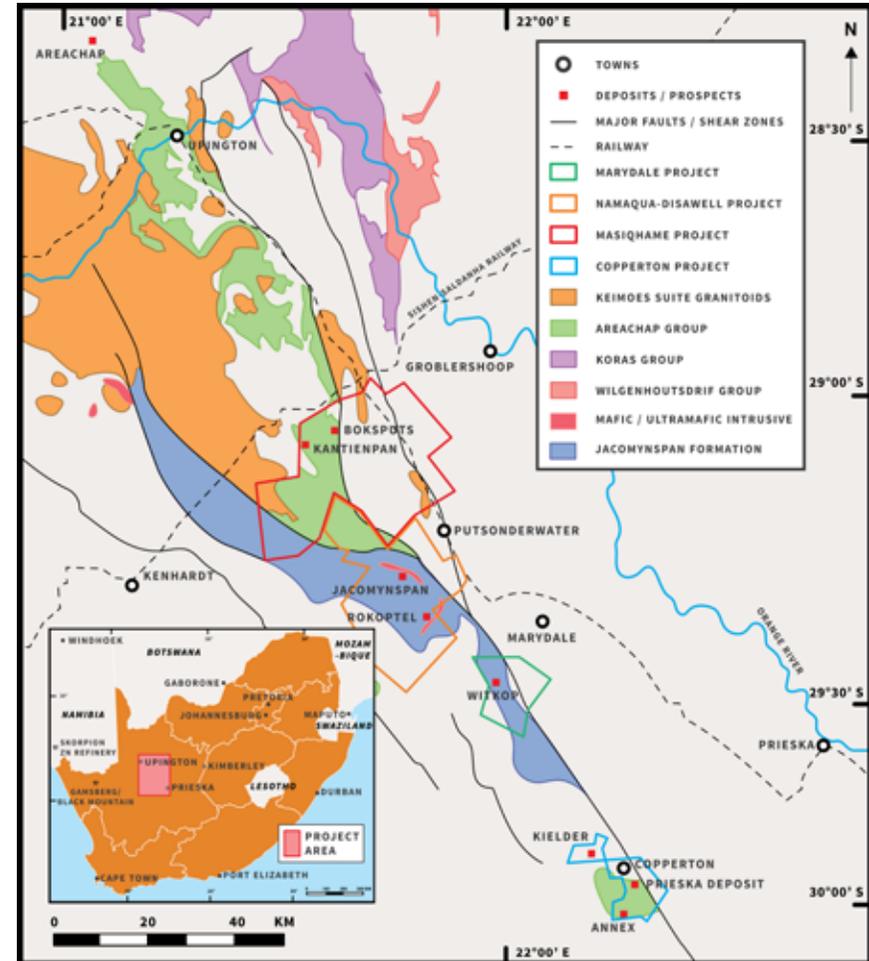
- The Areachap terrain is within a tectonic/mobile belt on the western margin of the Kaapvaal Craton and has subsequently been intensely altered and tectonised
 - The Areachap Group is a heterogeneous assemblage of metavolcanic and metasedimentary gneisses exposed intermittently for 280km on the easternmost margin of the Namaqua Province
 - It represents a Proterozoic volcanic island arc resulting from the subduction of oceanic crust underneath the Kaapvaal Craton
 - Important recognition of Prieska project area widely acknowledged as a “giant VMS” deposit
 - Geological conditions allow formation of giant VMS deposits of regional scale
 - Giant VMS deposits typically have several large satellites
- 22 identified VMS occurrences historically confirmed within the prospective Areachap terrane by major mining houses
- Several known intrusive Ni-Cu-PGE occurrences with limited modern exploration for this style of mineralisation
 - Potential for discovery of large low grade Ni-Cu deposits
 - Significant advances in technology have resulted in improved target generation methodology

Three superimposed geological events produce exceptional exploration potential



EXPLORATION: MAJOR CONSOLIDATION PLAY IN A PROVEN MINERALISED DISTRICT

- Orion acted at the bottom of cycle in 2015 and secured a large consolidated land package (1,790 km²)
 - Prieska Project acquired
 - This highly prospective region has been consolidated under a single owner for the first time
- No major exploration activity over the past 30 years
 - Application of modern exploration techniques presents a significant opportunity for target generation and testing
 - Many identified mineral occurrences not drilled and most targets remain open on dip and strike
- Three superimposed geological events produce an exceptional metals province
 - Prieska deposit recorded as one of world's 30 largest VMS deposits with 22 other occurrences on Orion's prospecting rights
 - Mafic intrusive analogous in tectonic style and time to the Fraser Range, WA with Ni-Cu deposits intruding pre-existing VMS & Volcanogenic Hydrothermal Massive Sulphides (VHMS)
 - Late stage granites and pegmatites intrude, with Li and REE deposits



EXPLORATION: ORION VMS STRATEGY

- The Prieska Zn-Cu deposit is of exceptional scale – ranked a “giant”*
- VMS’s tend to form in clusters or camps
- To form an exhalative deposit of this quality requires a long quiescent period in a marine, volcanogenic environment
- This quiescence is likely to be of regional scale
- The sea floor unconformity is a key stratigraphic target horizon
- Exploration is driven by stratigraphic mapping
- Litho-geochemistry provides key alteration mapping
- Geophysics to trace massive sulphides is the primary exploration tool
 - Electromagnetics
 - Magnetics
 - Gravity

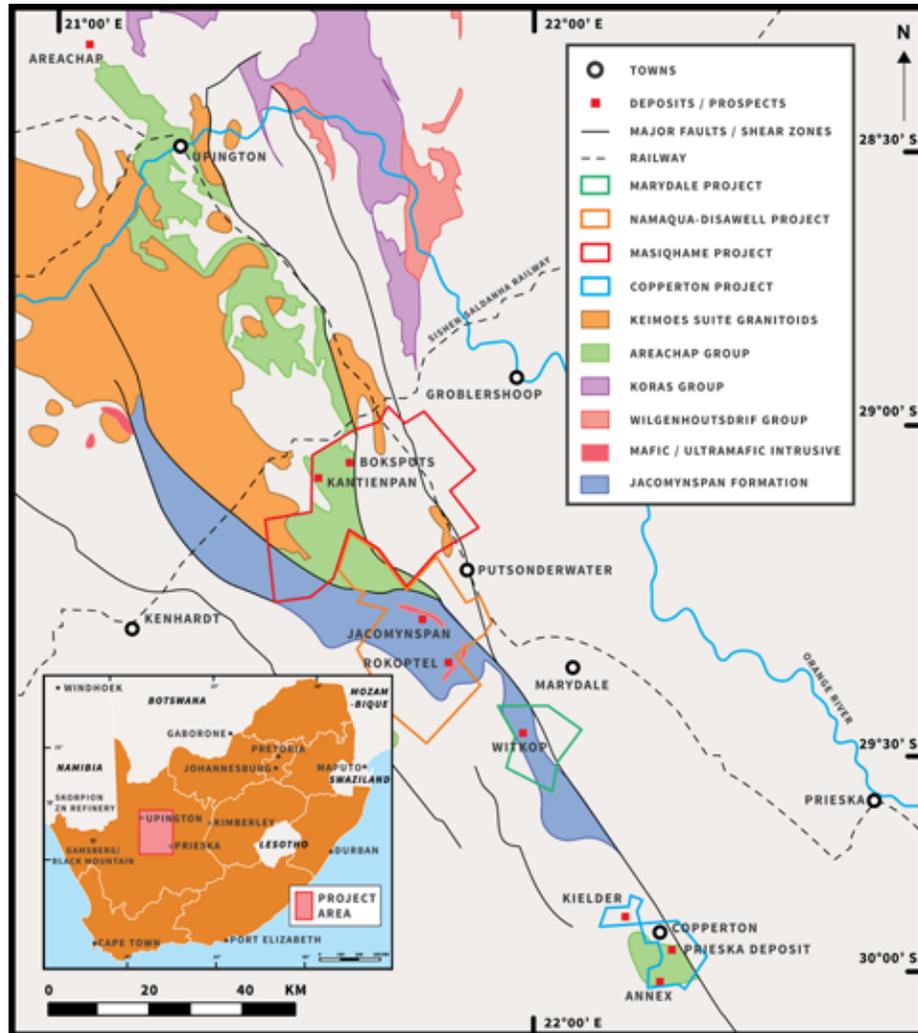
* In geological terminology, VMS Deposits are referred to as "Giants" when they exceed 90Mt



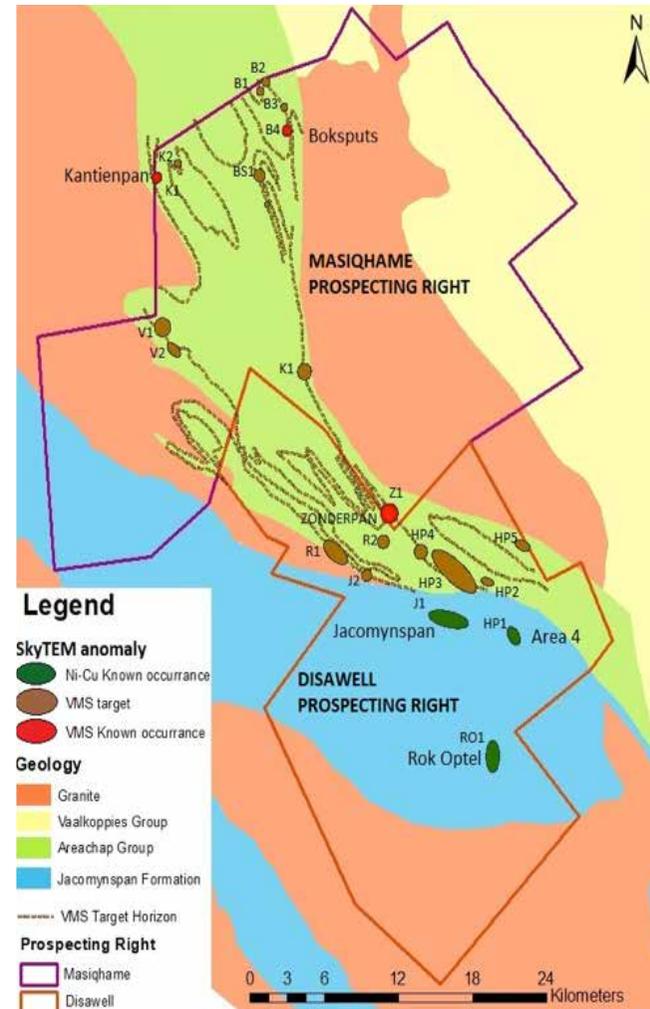
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EXPLORATION: INCREASING INTENSITY ON REGIONAL EXPLORATION

962km² SkyTEM survey completed January 2018

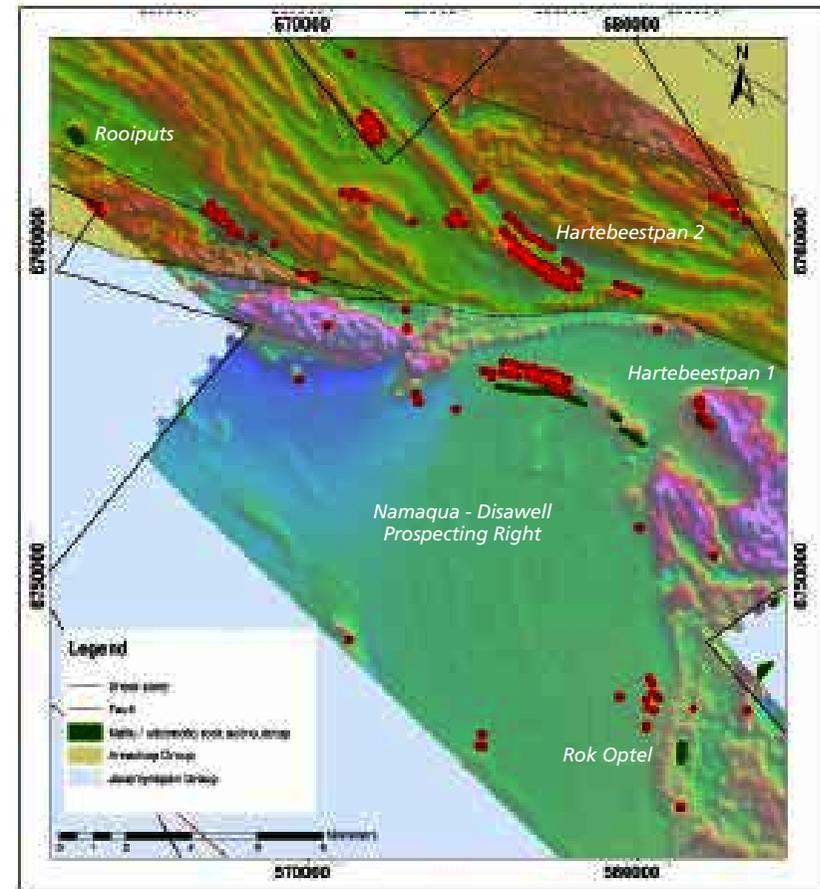


Follow up on SkyTEM survey underway



EXPLORATION: GEOLOGICAL MODELLING CONFIRMS COMPELLING TARGETS SURROUNDING THE JACOMYNSPAN NI-CU-CO-PGE INTRUSIVE

- The Jacomynspan Intrusive Complex has important characteristics in common with major Ni-Cu occurrences such as Voisey's Bay, Kabanga and Nova-Bollinger
- A recently completed airborne EM and magnetic survey has identified several high priority targets for follow up work
- The geophysical targets are centred around a maiden JORC Mineral Resource of 6.8Mt containing 39,480 tonnes Ni; 22,800 tonnes Cu and 1,800 tonnes of Co at a 0.4% Ni cut-off with grades of 0.57% Ni, 0.33% Cu and 0.03% Co, drilled between 1971 and 2012
- Detailed re-appraisal applying geochemistry and re-logging of magmatic features has made important findings in support of a compelling exploration opportunity
- Entered into collaborative agreement with IGO in May 2018, whereby IGO have preferential rights should Orion decide to JV or sell any of its nickel projects



Interpreted conductors (red dots) from recent SkyTEM survey, interpreted as potential ultramafic intrusive nickel sulphide targets

CSR: CREATING A BETTER FUTURE – LOCAL ECONOMIC DEVELOPMENT

ORION IS A CATALYST FOR SOCIO-ECONOMIC DEVELOPMENT

- Community Liaison office opened in Prieska
- MoU signed with Siyathemba Local Municipality to cooperate with Orion on community development initiatives
- Internet café established in 2017 to give the local community access to internet facility and supply chain training



WE STRIVE FOR » SUSTAINABILITY » ENTREPRENEURSHIP » IMPACT » FOCUS



Orion Minerals

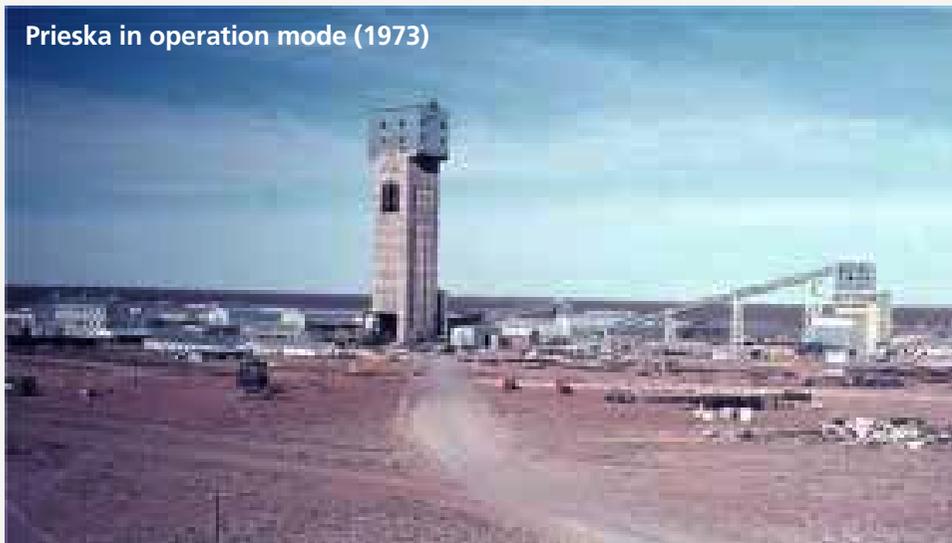
Appendices



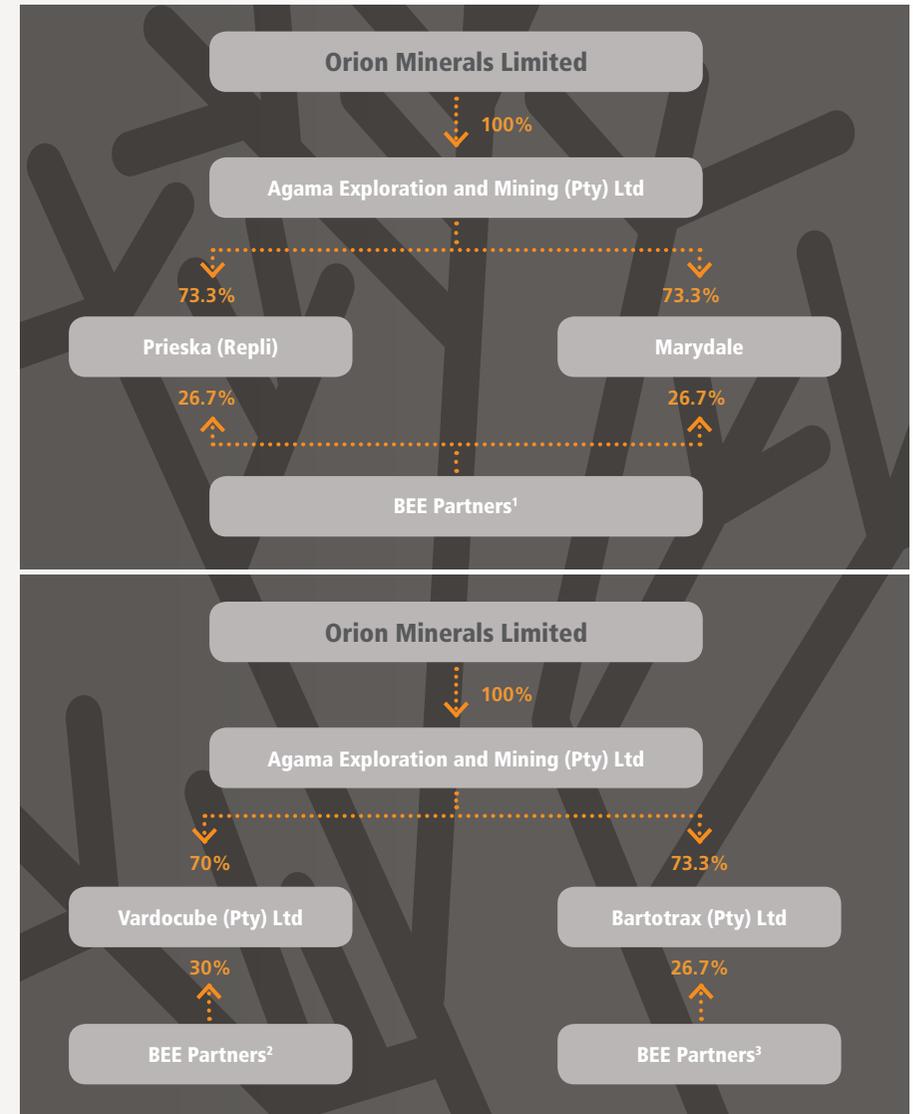
PRIESKA OWNERSHIP STRUCTURE

- Orion acquired Agama Exploration & Mining in March 2017 after extensive due diligence for A\$8.9m*
- Orion has a 73.3% economic interest in the Prieska and Marydale Projects
- Full compliance with current South African Black Economic Empowerment legislation

* Refer ASX release 29 March 2017

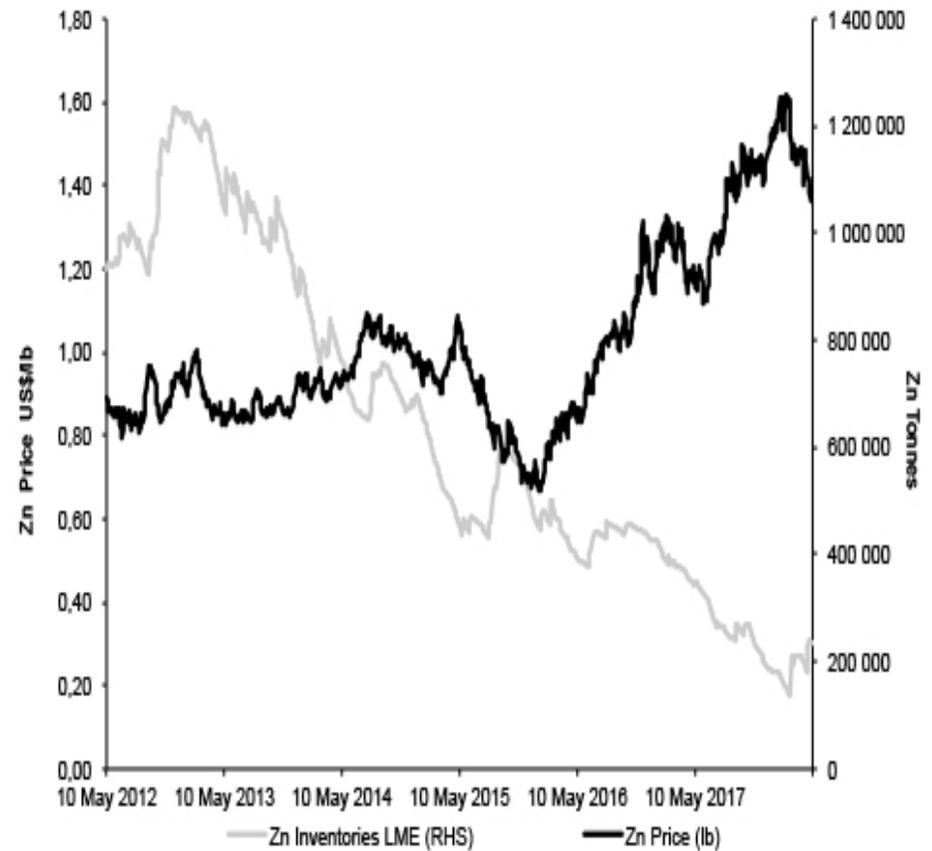


Prieska in operation mode (1973)



ZINC FUNDAMENTALS

- Zinc prices have had a significant two and a half year run from a low of US\$0.66/lb in January 2016 to a high of US\$1.62/lb in February 2018
- Fundamentals remain strong driven by its diverse range of applications including galvanising steel, zinc alloys, use in batteries, sunscreens and medicines
- Tighter supply issues and lower inventories levels are expected to remain into 2019 and 2020



Source: Bloomberg

COPPER FUNDAMENTALS

- Copper prices have also had a significant two and a half year run from a low of US\$1.94/lb in January 2016 to a high of US\$3.30/lb in February 2018
- Global copper demand is forecast to rise 2% in 2019 to 23.6Mt vs current supply of 23.5Mt according to the International Copper Study Group (ISCG)
- Copper market deficit which is expected to increase over the next three years, contributing factors include rising demand from electric vehicle manufacturers, improvement in China's economy and current US infrastructure plans announced by President Trump



Source: Bloomberg



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