Driving down Battery Road

Australian Nickel Conference, 15 October 2019 RICHARD BEVAN, MANAGING DIRECTOR





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Competent Persons Statement

The information in this statement which relates to the Mineral Resource data, including tenement information, drilling, sampling, and analytical results, geology interpretation, and selection of cut-off grade has been overseen by Mr Greg Miles who is a full-time employee of Cassini Resources Ltd and a Member of the Australasian Institute of Geoscientists. Mr Miles has sufficient relevant experience to the style of mineralisation and type of deposit under consideration and to the activity for which he is undertaking to qualify as a Competent Person as defined in the JORC Code, 2012 Edition.

The information in this report that relates to Nebo-Babel Mineral Resource estimate is based on information compiled by Mark Burdett, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy (224519). Mark Burdett is a full-time employee of OZ Minerals Ltd. Mark Burdett has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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' (JORC 2012). Mark Burdett consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. Mark Burdett BSc (Geology), has over 18 years of relevant and continuous experience as a geologist including significant experience in Base Metal deposits. Mark Burdett has visited the site in August 2018.

Please refer to Cassini's ASX announcement of 7 December 2015 for the Competent Person Statement and JORC disclosure tables relating to the Succoth Mineral Resource Estimate.

Cassini is not aware of any new information or data, other than that disclosed in this report, that materially affects the information included in this report and that all material assumptions and parameters underpinning Exploration Results, Mineral Resource Estimates and Production Targets continue to apply and have not materially changed.

The nickel equivalent (NiEq) and copper equivalent (CuEq) calculations take into account resources, reserves, and grades as stated in latest ASX releases and assumes 100% payability for all metals recovered generating a commodity equivalent value for Ni, Cu, Co, Zn, Au, Ag, Pb and Mo. Only projects with JORC 2012 resources and reserves have been used. Nickel equivalent grade = Ni% + Cu% x 0.56. Copper equivalent grade = Cu% + Ni% x 1.97. Based on assumed recoveries of 73% for Cu and 59% for Ni and commodity prices shown below. It is the Cassini's opinion that all the elements included in the metal equivalents calculation have a reasonable potential to be recovered and sold. NiEq grades have been published to enable a comparison to similar sized copper assets.

Forward Looking Statements

Some statements in this report regarding estimates or future events are forward-looking statements. They include indications of, and guidance on, future earnings, cash flow, costs and financial performance. Forward-looking statements include, but are not limited to, statements preceded by words such as "planned", "expected", "projected", "estimated", "may", "scheduled", "intenders", "believes", "potential", "could", "nominal", "conceptual" and similar expressions. Forward-looking statements, opinions and estimates included in this announcement are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on assumptions and settlements are provided as a general guide only and should not be relied on as a guarantee of future performance. Forward-looking statements may be affected by a range of variables that could cause actual results of the render results, and may cause the Company's actual performance and financial results in future periods to materially differ from any projections of future performance or results expressed or implied by such forward-looking statements. These risks and uncertainties include but are not limited to liabilities inherent in mine development and production, geological, mining and processing technical problems, the inability to obtain mine licenses, permits and other regulatory approvals required in connection with mining a

The production targets referred to in this announcement are based on 52% In-pit Indicated Resources and 48% Inferred Mineral Resources. The Inferred Resources do not determine the economic viability of the project, and approximately 80% of resources within the optimisation pit shells are in the Indicated Category during the pay-back period. There is a low level of geological confidence associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of Indicated Mineral Resources or that the production targets themselves will be realised.

Statements regarding plans with respect to the Company's mineral properties may contain forward looking statements. Statements in relation to future matters can only be made where the Company has a reasonable basis for making those statements.

Corporate Snapshot

CZI
ICR
A\$0.085
415.5M
29.72M
A\$35.3 M
A\$8.0M

MAJOR SHAREHOLDERS (22 Sept 2019)	
Buxiao Yu	7.65%
Atasa Holdings Pty Ltd	7.49%
Tinci (HK) Limited	6.02%
Mr Colin Iles	5.53%
Mr Sufan Siauw & Lusmiati Marsudidaja	5.12%

CASH EXPENDITURE - next 12 months	
Corporate	A\$1.5M
Exploration (100% CZI Projects)	A\$1-\$1.5M
Forecast cash 30 June 2020	circa A\$5M



SHARE PRICE PERFORMANCE - 24 month CZI Price & Volume



Cassini insights on the China EV story



✓ Rapid urbanisation and air quality concerns



✓ Licensing subsidies for Electric Vehicles





China EV Adoption well ahead of Australia





✓ Electric Buses & Taxis



Running costs for EV taxi ~75-80% less than ICE



Tinci Material Technology Co

- Guangzhou Tinci Materials Technology Co. Ltd (002709.SHE, market capitalisation of ~A\$2.2b)
- Chemical manufacturer with ~2,500 employees in multiple facilities across China
- Substantial shareholder of CZI with circa 6%
- One of the largest battery electrolyte producers in China
- Strong customer relationships with battery manufacturers. Major providers of product to:
 - » CATL
 - » LG
 - » Aviation Industry Corp of China (AVIC)
- Actively looking to secure future supply of high quality nickel product







2018年10月24日下午,习近平来到广州开发区,同在场的中小企业负责人亲切交谈,肯定 他们在自主创新方面取得的成就。

ASX: CZI FRANKFURT: ICR



- Rapidly growing Hi-tech business
- Recently acquired nickel sulphate plant in Jiujiang, Jiangxi Province China
- Fully licenced and permitted a key barrier to new entrants
- Refurbishing and expanding facility with goal of being operational in early 2021



Uniquely positioned to capitalise on growing nickel sulphate demand



BHP joins battery revolution with **\$US43m Kwinana plant**

Stuart McKinnon and Nick Evans, Kalgoorlie

The West Australian

Thursday, 10 August 2017

Independence moves closer to producing battery ingredients at Nova Peter Milne

The West Australian Tuesday, 2 April 2019

Problem child Nickel West gets back in BHP's good books

Stuart McKinnon

The West Australian Saturday, 3 August 2019

Born-again BHP nickel unit eyes battery market

Brad Thompson

Australian Financial Review

August 2nd, 2019

Nickel sulphate demand to exceed 900,000t by 2029

Jacqueline Holman

Mining Journal

7 June 2019

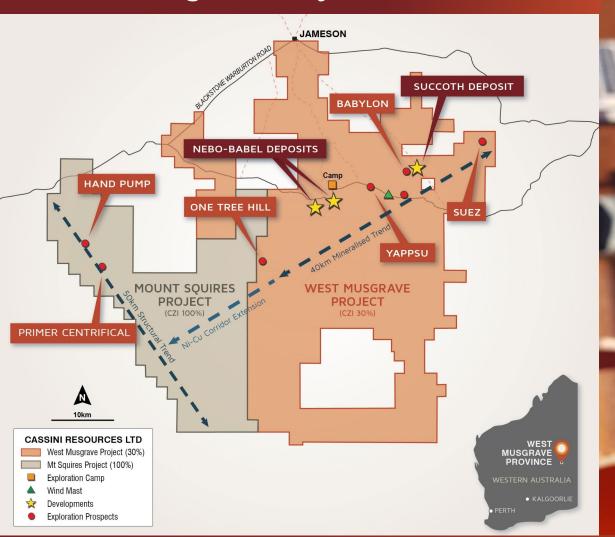


Cassini Resources On a drive down Battery Road

- WMP is one of the largest, active nickelcopper sulphide development projects globally
- ✓ Strong Joint Venture partnerOZ Minerals (ASX:OZL)
- ✓ OZL will spend >A\$50M delivering high quality PFS in early 2020
- Cassini not required to fund until "Decision to Mine" (mid 2021)
- Advancing nickel sulphide exploration targets at Yarawindah Brook



West Musgrave Project (Ni-Cu-Co-PGE)





Nebo-Babel PFS Update



Comparison to Further Scoping Study – **Significant Improvements with more to come...**

Life of Mine



>15 years

Plus potential for resource extensions + inclusion of Succoth

"Bulk Separation"



Processing

Improved Recoveries & Coarser grind

= reduced Opex

Metal Recoveries



Ni up 8%

Ni con: **10.9%** @ **67.4%**

Cu up 12%

Cu con: **26.4%** @ **84.6%**

Power Solution



Reduced demand

55MW Solar-wind-diesel

Innovation



Opportunities in new tech, remote ops, logistics



World-class Stakeholder Engagement



Continuing engagement with stakeholders to add value through PFS & beyond

- » Social Impact and Opportunities Assessment
- » Consultation with local indigenous community, Ngaanyatjarra Council and government agencies
- » Best practice environmental studies to assist regulatory approvals

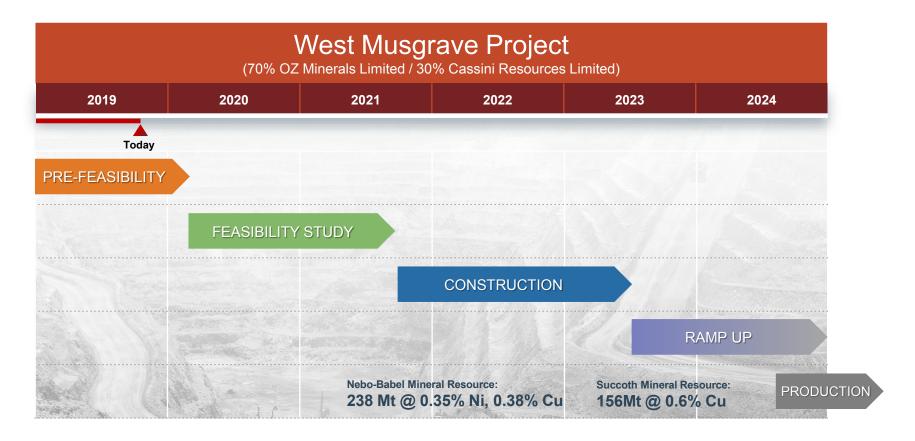






Indicative Project timeline Nebo-Babel Development





Cassini: Driving exploration success at WMP



Nebo-Babel is just the start ...

- Succoth new interpretation provides resource upside
- One Tree Hill discovery of massive sulphides in early stage prospect
- Yappsu high-grade shoot of Ni-Cu, still open
- Large legacy database provides opportunities for further discovery







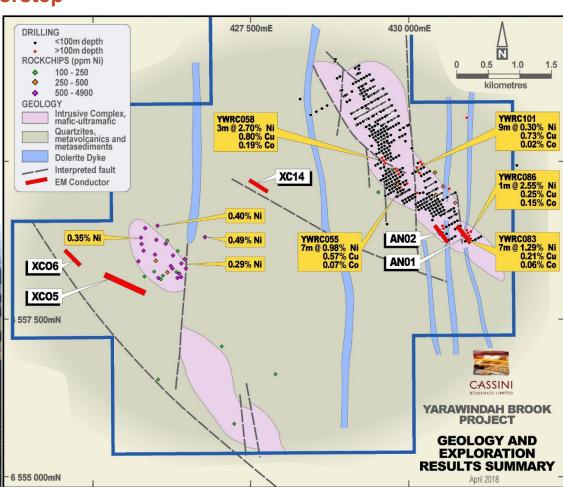
Yarawindah Brook Ni-Cu-Co Project (CZI 80%)



Exploring for Nickel Sulphides on Perth's Doorstep

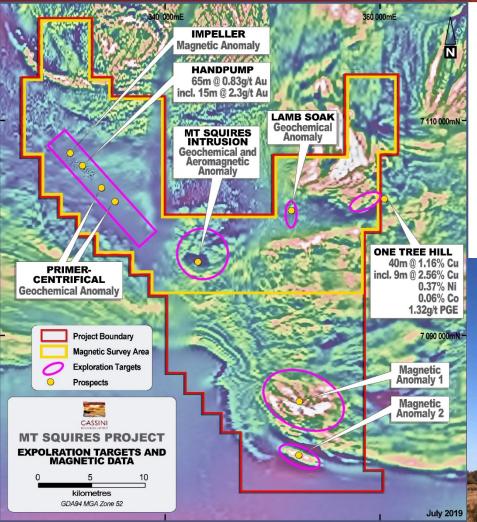
- Under-explored magmatic Ni-Cu system
- Last drilled 2007:
 - » 7m @ 1.29% Ni, 0.21% Cu, 0.06% Co
 - **» 3m @ 2.70% Ni**, 0.80% Cu, 0.19% Co
- All clearances now received
- Field program in December 2019 to test new conductors





Mount Squires Gold Project (CZI 100%)





Large scale greenfield gold project

- The only active gold exploration project in the Musgrave Province
- Leveraging IP and operational capability in an under-explored region
- September drill results include:
 - » 20m @ 1.27g/t Au from 23m, including **7m @ 2.54g/t Au**
- Now recognised Ni-Cu potential extensions from One Tree Hill



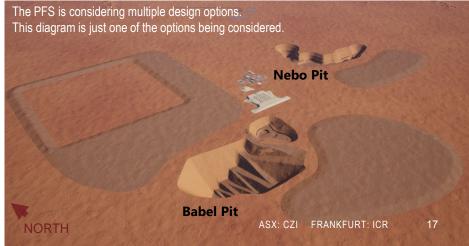
Realising Value

- ✓ WMP is a large scale, long life Ni + Cu sulphide project in a safe, first world jurisdiction
- De-risked by JV partner OZ Minerals –a mining operator with strong financial capability
- ✓ Re-rate opportunity with delivery of positive PFS
- ✓ Key shareholders within China's battery industry
- ✓ Progressing multiple funding options
- Progressing early stage exploration projects within our means
- Leveraged to positive Ni and Cu price outlook and emerging battery metals thematic













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Nebo-Babel PFS Update



Comparison to Further Scoping Study – Significant Improvement

FSS	PFS Update	PFS Commentary
8	>15 (+Succoth)	Additional 50km infill drilling to deliver LOM extension and maiden reserve
10Mtpa "Sequential"	10Mtpa "Bulk"	Bulk separation flowsheet provides better recoveries with lower operating costs
20-25ktpa	In line with FSS	Cassini retains 30% of product
US\$2.00-2.30/lb	-	40% of cost derived from power generation
10.8% Ni @ 59.0%	10.9% Ni @ 67.4%	Low impurities, further recovery improvements expected
25-30ktpa	In line with FSS	Improved logistics solution to Esperance
US\$0.20-0.40/lb	-	Highly leveraged to comminution and power opportunities currently under investigation
22.7% Cu @ 72.6%	26.4% Cu @ 84.6%	Quality product with potential for further improvement
A\$730-800M	-	10Mtpa anchors FSS order of magnitude
60MW solar-diesel	55MW solar-wind-diesel	PPA process underway – Confidence in lowering cost assumptions used in FSS
Nil	"a modern mine"	Opportunities: remote operations, autonomous mining, new flotation technologyetc
	8 10Mtpa "Sequential" 20-25ktpa US\$2.00-2.30/lb 10.8% Ni @ 59.0% 25-30ktpa US\$0.20-0.40/lb 22.7% Cu @ 72.6% A\$730-800M 60MW solar-diesel	8 >15 (+Succoth) 10Mtpa "Sequential" 10Mtpa "Bulk" 20-25ktpa In line with FSS US\$2.00-2.30/lb - 10.8% Ni @ 59.0% 10.9% Ni @ 67.4% 25-30ktpa In line with FSS US\$0.20-0.40/lb - 22.7% Cu @ 72.6% 26.4% Cu @ 84.6% A\$730-800M - 60MW solar-diesel 55MW solar-wind-diesel

Nebo-Babel PFS - Key Opportunities



	Priority	Detail	Opportunity / Risk
1	Comminution	Complete 2nd pilot test work on Loesche mill in Germany before inclusion in base case	Potential for 30% reduction in power for similar capital cost of SAG / Ball Mill circuit
			Very common technology used in cement industry, never before applied to base metal comminution
2	Processing	Trials of Woodgrove and HydroFloat Cell technology	Reduced size/footprint and air consumption compared to conventional float cells, reducing capex & opex
3	Resource & Reserve update	Additional 50km of infill drilling completed since April '19 resource update	Targeting >80% Indicated resources for LOM including Maiden Reserve.
4	Power	Currently 70-80% renewable penetration	Options to further reduce reliance on high cost fossil fuels
		Large number of proposals received. Identify partner to deliver additional cost savings	Leverage to dynamic renewable energy sector
5	Workforce Planning	Evaluation of Remote Operations Centre and Autonomous Mine Haulage	Potential to reduce labour costs and infrastructure from site
		- Talanama a mino i ladiago	Maintaining balanced social responsibilities
6	LOM extensions	Succoth and other exploration	Will underpin further reduction in power costs through longer amortisation of capital costs