



Euroz Conference Presentation March 2019 ASX | EAR

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Corporate snapshot



Capital structure	
ASX ticker	EAR
Share price (12 March 2019)	A\$0.21
Ordinary shares on issue	551 M
Market capitalisation (undiluted)	A\$116 M
Cash (1 March 2019)	A\$5 M
Debt	A\$0 M
Liquidity (avg. daily traded shares)	1.4 M
1 year turnover	70%

Major shareholders	
Northern Star Resources	22.5%
Directors and management	3.0%
Top 20 shareholders	60%

Recent share price performance



A highly experienced Board





Barry Bolitho
Chairman

- 40 Years as a mining professional
- Commissioned and managed a number of gold operations
- Executive / Director of a number of ASX and TSX listed companies



Victor Rajasooriar Managing Director & CEO

- Mining Engineer with 20+ years experience, technical and operations, UG and OP
- Previously COO of Barminco and senior roles with Newmont and Gold Fields
- Worked in the Goldfields and Yandal region



Anthony McIntosh
Non-Executive Director

- Investment banking background
- Experience in investor relations and strategic planning
- Well established network of stockbroking and fund managers



Alan Thom
Non-Executive Director

- Mining Engineer with 20+ years mining experience
- Significant experience in Northern Goldfields (Bronzewing, Jundee and Wiluna)
- Currently Northern Star's Principal Business Development



Robin Dean
Non-Executive Director

- 30+ years of experience in banking, project finance and hedging
- Previous CEO of listed ASX companies including St Barbara Mines Ltd
- Director of a number of ASX listed companies



Mark Hanlon
Non-Executive Director

- 20+ Years of commercial and merchant banking experience
- Executive experience in mining, mining services, electricity, paper & insurance
- Director of a number of ASX listed companies

Focussed, driven management team





Wayne Foote
Project Manager

- Mining Engineer 30+ years experience
- Carried out numerous feasibility studies, commissioned and managed new operations
- Previous senior roles with Gold Road Resources, Crusader Resources, B2 Gold and Resolute



Travis Craig
General Manager - Geology

- Geologist 25+ years experience
- Considerable experience with targeting and developing deeper resources such as KCGM's Super Pit, Telfer and Gwalia Deeps
- Previously Chief Geologist for Maáden (+5Moz gold deposit), and held senior roles with Minjar, Sons of Gwalia and LaMancha



Richard Hill

- 20+ years in resource finance
- Experienced in feasibility studies, project construction, development and operations
- Previously senior roles with Egan Street, Millennium, Adamus and Newmont



John Zimmerman
Registered Manager

- Metallurgist 12+ years experience
- Experienced in operational and project management, including plant refurbishment and commissioning
- Previously with Minjar, Hanking and St Barbara



Simon Coyle Mining Manager

- Mining Engineer 15+ years of experience
- Operational management experience with contractor based mining and owner operator
- Previously with Consolidated Minerals and KCGM



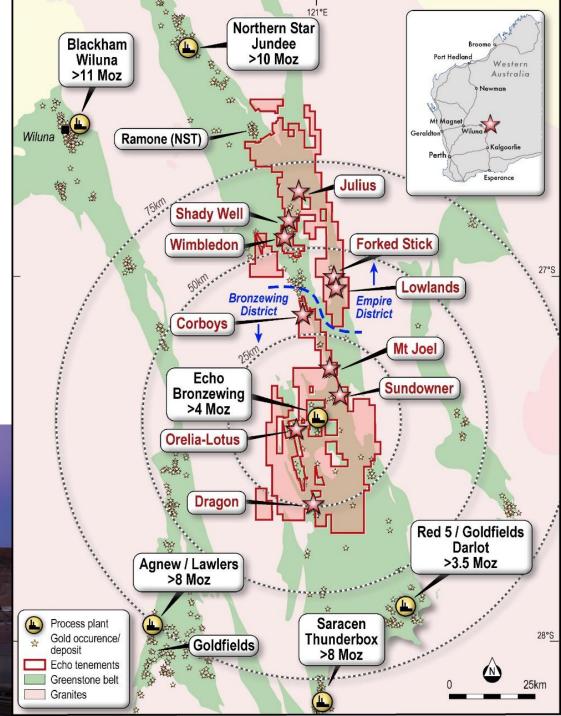
Kate Stoney
GM Finance and Company Secretary

- Accountant 10+ years experience
- Experience in cost control, Pronto and project management
- Previously Company Secretary for a number of ASX listed companies

Yandal Gold Project overview

- Highly endowed greenstone belt
- Operationally active, prolific gold production region
- Large (1,600km²), highly prospective land holding
- 1.7 Moz gold resource and growing
- 100% ownership of existing 2Mtpa Bronzewing plant
- Other key operating infrastructure in place
- Pending Revised BFS completion





Short plant lead time

- Detailed plant refurbishment scope done by Mintrex
- MACA Interquip have verified scope/price estimates multiple times
- Approximately 6 month lead time from green light to operational readiness
- High confidence in capital estimate for plant refurbishment
- Proven process flowsheet (detailed Orelia processing history)
- Only minor equipment changes required
- High potential for smooth recommissioning and rapid ramp-up
- Major equipment spares on site (eg ball mill motor, mill pinion)



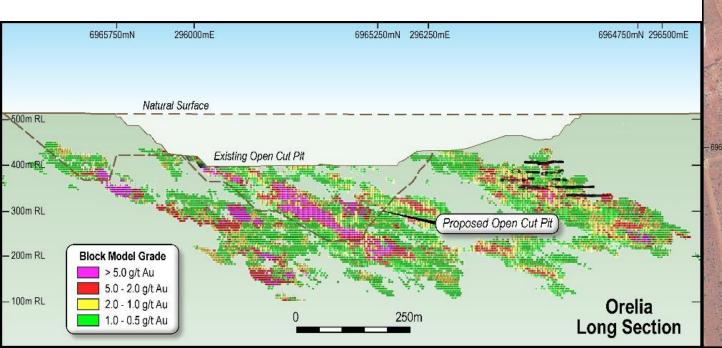
Excellent existing infrastructure

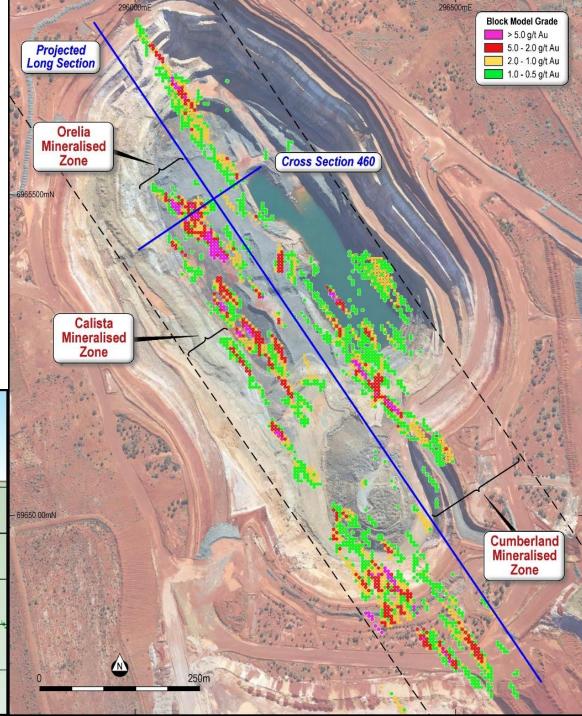
- High-quality 240 person accommodation camp, kitchen and wet mess recently refurbished
- Electrical reticulation and power station infrastructure
- All surface road infrastructure in place and haul road construction from Julius well advanced
- Large-capacity, fully permitted tailings storage facility
- 2,000m laterite airstrip
- Borefield infrastructure
- New microwave comms link under construction
- Existing offices, workshops and warehouse



Yandal Revised BFS Status

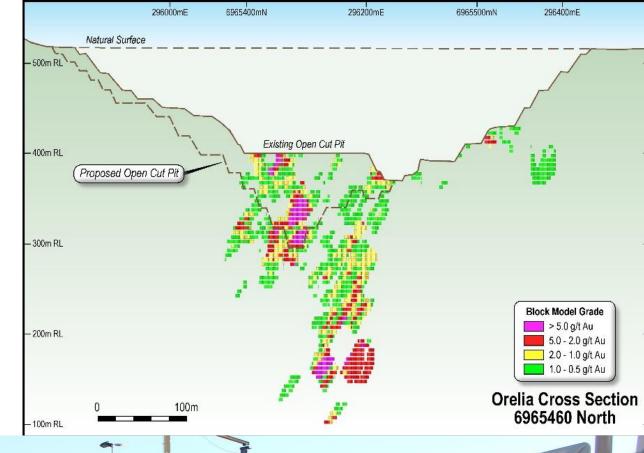
- All key government permits received for Orelia and Julius
- Preferred contractor status for plant refurbishment and mining contracts issued to MACA Interquip and MACA
- Revised BFS to be released this quarter
- Independent Technical Expert (ITE) review
- Project finance process well advanced





Increased rigour and derisking

- Detailed mine scheduling and optimisation
- Pit redesigns to increase mining efficiency
- More conservative approach to mining dilution and powder factors
- Comminution testwork on fresh Orelia ore
- Detailed project implementation plan and risk assessment
- Optimised capital and operating cost estimates





Echo exploration strategy



1. Brownfield exploration

- Near mine extensional targets
- Build total resources north of 2Moz

2. Greenfield exploration

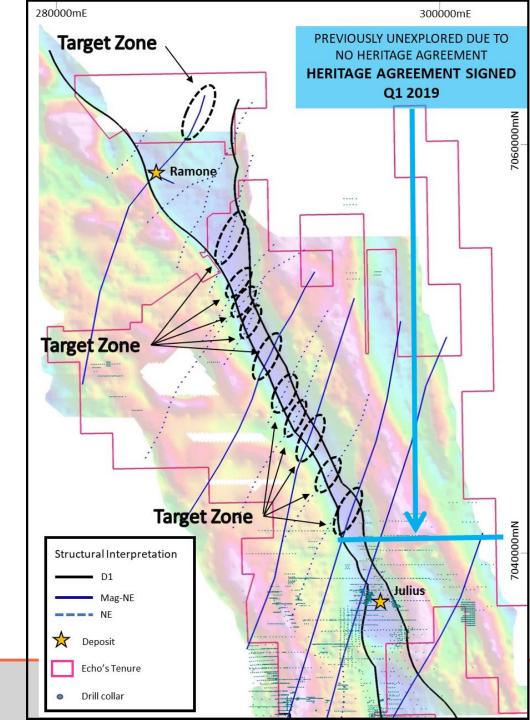
- Hadrian Trend
- Bronzewing UG
- Lotus UG
- ► Mt Joel Cyclonix Sundowner (70% Echo)

3. Target generation

► Build the pipeline via new target identification

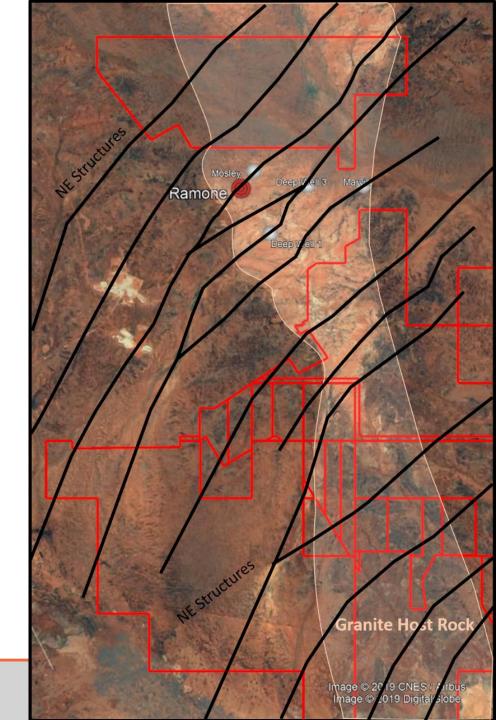
Greenfield exploration – Hadrian Trend

- 20km corridor extending from Julius deposit in the south to Northern Star's Ramone deposit in the north
- Layer of cover masks underlying geology
- Recent ground gravity work highlights corridor gravity low, interpreted as a major shear zone intruded by granitic bodies
- Critical to define the geochemistry and integrate this with a broader litho-structural framework
- First pass geochemical sampling of historical drill spoils
- 2D inversion modelling of gravity data indicates the corridor is subvertical to steeply west dipping
- Further geochemical sampling planned along with a higher resolution geophysical survey
- Developing drill ready targets



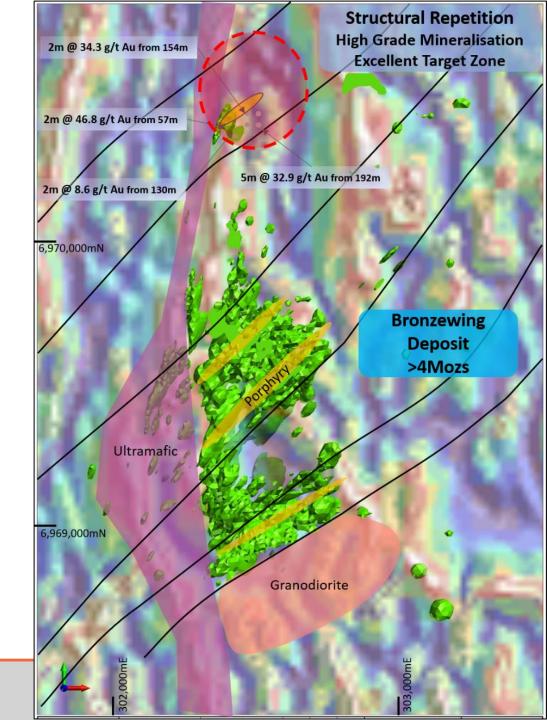
Greenfield exploration – Hadrian Trend

- Importance of the north-east (NE) structures
- The Hadrian Trend is defined by a granite host rock that is transgressed by a series of NE structures
- Northern Star's deposits (Ramone, Deep Well 1, Deep Well 2, Deep Well 3, Mosley & Marvin) are all located proximal to these NE structures that transgress the Granite Host Rock
- Echo has significant tenement holdings over the Granite Host Rock with numerous NE structures
- Prime target zones for drill testing



Greenfield exploration – Bronzewing

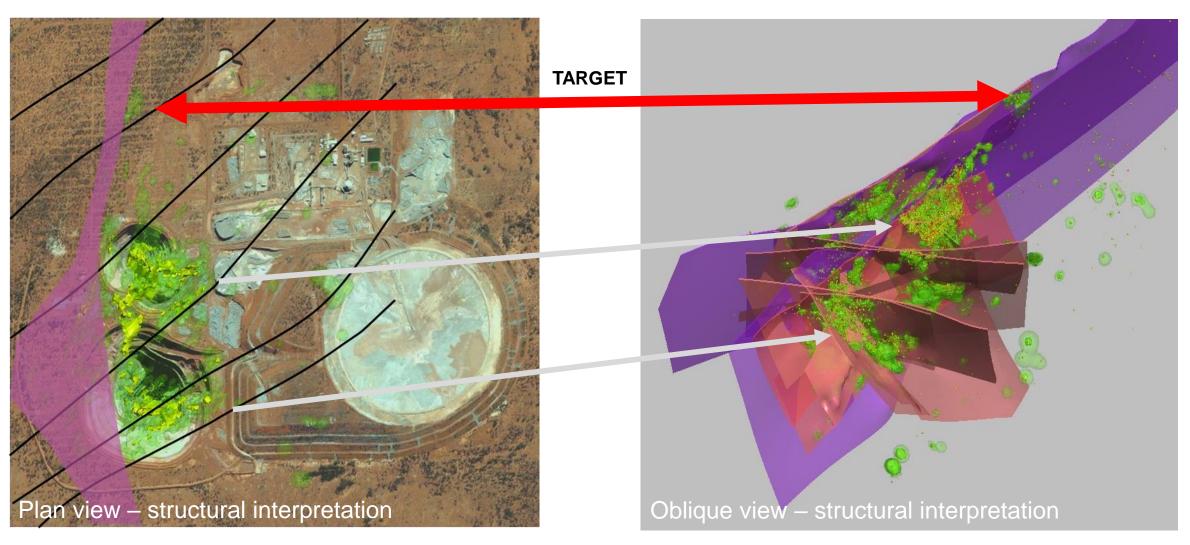
- Located in the immediate Bronzewing process plant area
- A highly structurally controlled zone of mineralisation
- Gold endowment of >4Mozs
- Bronzewing UG mined at 10 g/t
- Geological understanding advanced
- Controlling structures and lithologies identified
- Potential structural and geological repetition to the north
- High-grade drill results returned from this target zone



Greenfield exploration – Bronzewing



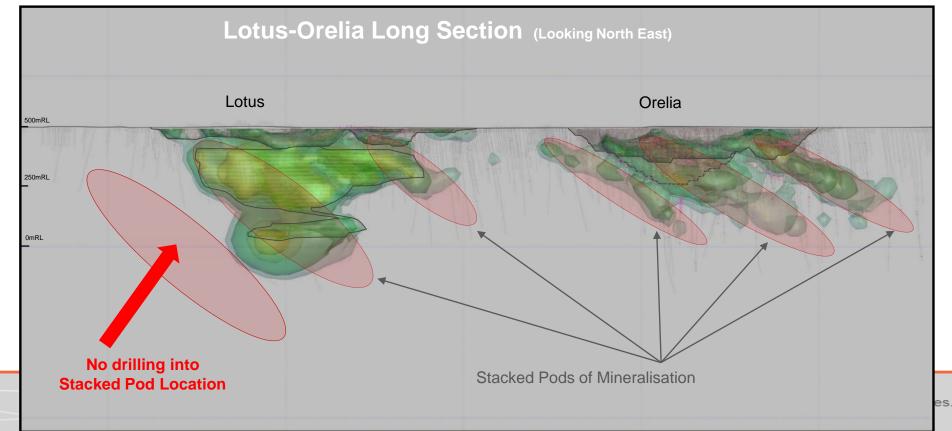
Significant NE structures controlling minerology at Bronzewing



Greenfield exploration – Lotus



- Lotus deposit forms part of the Lotus-Orelia mineralised system
- +3km strike and previously mined down to 500m below surface (Lotus UG was 5 g/t)
- Series of stacked mineralised pods for both deposits
- No drilling under lower stacked pod at Lotus prime target area for drill testing



Recent exploration at Mt Joel (70%)

- 15 kilometres NNE of Bronzewing plant
- RC drilling program (Dec 2018 Jan 2019) returned outstanding results
 - 16m @ 24.10 g/t Au from 26m (MJRC119)
 - 27m @ 11.43 g/t Au from 45m (MJRC048)
 - 4m @ 11.10 g/t Au from 12m (MJRC038)
 - 11m @ 5.92 g/t Au from 29m (MJRC125)
 - 15m @ 4.12 g/t Au from 80m (MJRC018)
 - 9m @ 3.72 g/t Au from 10m (MJRC002)
 - 8m @ 3.46 g/t Au from 27m (MJRC122)
 - 4m @ 5.67 g/t Au from 85m AND
 - 5m @ 6.89 g/t Au from 93m (MJRC024)

MJRC053 1m @ 21.70 g/t Au from 22m MJRC048 27m @ 11.43 g/t Au from 45m Taipan MJRC051 11m @ 2.57 g/t Au from 35m 6984000mN MJRC080 8m @ 2.98 g/t Au from 50m 15m @ 4.12 g/t Au from 80m MJRC002 9m @ 3.72 g/t Au from 10m Tiger MJRC038 4m @ 11.10 g/t Au from 12m MJRC033 19m @ 2.20 g/t Au from 71n 6982000mN MJRC024 4m @ 5.67 g/t Au from 85m MJRC115 10m @ 2.89 g/t Au from 28m MJRC119 16m @ 24.10 g/t Au from 26m MJRC122 8m @ 3.46 g/t Au from 27m MJRC124 13m @ 2.24 g/t Au from 58m Significant RC Result Completed RC Holes Historical Holes Echo RC Intercept MJRC125 11m @ 5.92 g/t Au from 29m D1-D2 Shear Zones Adder Major NE Faults Conjugate Faults MJRC127 20m @ 1.99 g/t Au from 55m

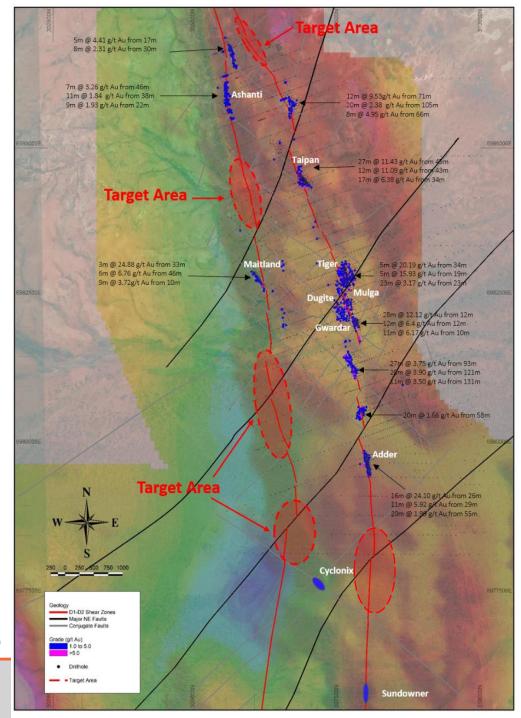
308000mE

Mt Joel Prospect Map (Bouguer Gravity Image)

6986000mN

Greenfield exploration – Mt Joel to Cyclonix and Sundowner

- 15 kilometres NNE of Bronzewing plant
- Two regional D1-D2 Shear Zones hosting numerous deposits proximal to the NE structures
- Western D1-D2 Shear Zone very under explored
- On the Eastern D1-D2 Shear Zone there is a target zone north and to the south of the known mineralisation
- Numerous target zones with significant potential



Mt Joel - Cyclonix - Sundowner Prospect Map (Bouguer Gravity Image)







APPENDICES

Global Mineral Resources & Reserves

Echo Mineral Resource Estimates

(Ownership, Cut-off)	Measured			Indicated			Inferred			Total		
	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces	Tonnes	Grade	Ounces
	(Mt)	(g/t Au)	(Au)	(Mt)	(g/t Au)	(Au)	(Mt)	(g/t Au)	(Au)	(Mt)	(g/t Au)	(Au)
Julius ^{4 (100%, 0.8)}	1.8	2.1	124,227	1.6	1.3	67,789	1.8	2.5	142,991	5.2	2.0	335,007
Regional ^{5 (100%, 0.5)}							2.8	1.5	134,925	2.8	1.5	134,925
Corboys ^{3 (100%, 1.0)}				1.7	1.8	96,992	0.5	1.8	28,739	2.2	1.8	125,731
Orelia ^{4 (100%, 1.0)}	2.8	2.6	237,000	11.2	2.0	732,000	1.9	1.7	101,000	15.9	2.1	1,070,000
Woorana North ^{2 (100%, 0.5)}				0.3	1.4	13,811				0.3	1.4	13,811
Woorana South ^{2 (100%, 0.5)}				0.1	1.0	3,129				0.1	1.0	3,129
Fat Lady ^{1,2 (70%, 0.5)}				0.7	0.9	19,669				0.7	0.9	19,669
Mt Joel 4800N ^{1,2 (70%, 0.5)}				0.2	1.7	10,643				0.2	1.7	10,643
Total Mineral Resources	4.6	2.4	361,227	15.8	1.9	944,033	7.0	1.8	407,655	27.4	1.9	1,712,915

Echo Ore Reserves

(Ownership, Cut-off)	Proved			Probable			Total		
	Tonnes (Mt)	Grade (g/t Au)	Ounces (Au)	Tonnes (Mt)	Grade (g/t Au)	Ounces (Au)	Tonnes (Mt)	Grade (g/t Au)	Ounces (Au)
Orelia ^{6 (100%, 0.6)}	2.4	2.4	179,264	11.0	1.5	531,000	, ,	1.7	710,031
Julius ^{6 (100%, 0.8)}	1.5	2.1	96,747	0.2	1.7	8,000	1.6	2.0	105,034
Total Ore Reserves	3.8	2.2	276,012	11.1	1.5	539,000	14.9	1.7	815,065

- 1. Resources are adjusted for Echo's 70% ownership interest
- 2. Resources estimated by Coxrocks (refer to Competent Persons Statements) in accordance with JORC Code 2012. For full Mineral Resource estimate details refer to the Metaliko Resources Limited announcement to ASX on 1 September 2016. Echo is not aware of any new information or data that materially affects the information included the previous announcement, and all material assumptions and technical parameters underpinning mineral resource estimates in the previous announcement continue to apply and have not materially changed.
- 3. Resources estimated by HGS (refer to Competent Persons Statements) in accordance with JORC Code 2012, for full details of the Mineral Resource estimate refer to the Metaliko Resources Limited announcement to ASX on 23 August 2016. Echo is not aware of any new information or data that materially affects the information included the previous announcement, and all material assumptions and technical parameters underpinning mineral resource estimates in the previous announcement continue to apply and have not materially changed.
- 4. Resources estimated by Mr Lynn Widenbar (refer to Competent Persons Statements) in accordance with JORC Code 2012, for full details of the Mineral Resource estimate refer to the Echo Resources Limited announcement to ASX on 7 September 2017 & 14 June 2018. Echo Resources Limited is not aware of any new information or data that materially affects the information included the previous announcement, and all material assumptions and technical parameters underpinning mineral resource estimates in the previous announcement continue to apply and have not materially changed.
- 5. Resource estimates include Bills Find, Shady Well, Orpheus, Empire & Tipperary Well and were estimated by Golders (refer to Competent Persons Statements) in accordance with JORC Code 2004, for full details of the Mineral Resource estimates refer to the Echo Resources Limited prospectus released to ASX on 10 April 2006.
- 6. Reserve estimated by Mr Stuart Cruickshanks (refer to Competent Persons Statements) in accordance with JORC Code 2012, for full details of the Ore Reserve estimate refer to the Echo Resources Limited announcement to ASX on 6 August 2018. Echo Resources Limited is not aware of any new information or data that materially affects the information included the previous announcement, and all material assumptions and technical parameters underpinning Ore Reserve estimate in the previous announcement continue to apply and have not materially changed.
- 7. Mineral Resources are inclusive of Ore Reserves, rounding errors may occur

Competent Persons Statements



The information in this presentation relating to Julius and Orelia Resource Estimation is based on information compiled by Mr Lynn Widenbar, a consultant of Echo Resources Limited, who is a member of the Australasian Institute of Mining and Metallurgy. The information in this announcement that relates to Exploration Results and metallurgical considerations at Julius and Orelia is based on information compiled by Simon Coxhell, a Director of Echo Resources and a member of the Australasian Institute of Mining and Metallurgy. Both have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that they are 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 Widenbar and Mr Coxhell consent to the inclusion in the presentation of the matters based on the information in the form and context in which it appears.

The information in this presentation relating to Echo's exploration activities and exploration potential at Julius, Orelia, Woorana North, Woorana South, Fat Lady and Mt Joel Mineral Resource estimates is based on information compiled by Mr Simon Coxhell, a Director of Echo Resources Limited, who is a member of the Australasian Institute of Mining and Metallurgy. He has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that 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 Coxhell consents to the inclusion in the presentation of the matters based on the information in the form and context in which it appears.

The information in this presentation relating to Echo's Regional Mineral Resource estimates is based on information compiled by Stephen Godfrey, a full-time employee of the independent geological consulting group Golder Associates Pty Ltd. He has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Godfrey consents to the inclusion in the presentation of the matters based on the information in the form and context in which it appears.

The information in this presentation relating to Echo's Corboys Deposit Mineral Resource estimate is based on information compiled by Andrew James Hawker, a Competent Person who is a Member or Fellow of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Hawker is the Principle Geologist employed by HGS Australia. He has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that 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 Hawker consents to the inclusion in the presentation of the matters based on the information in the form and context in which it appears.

The information in this presentation that relates to ore reserves is based on, and fairly represents, information and supporting documentation prepared by Mr Stuart Cruickshanks, an independent specialist mining consultant. Mr Cruickshanks is a Fellow of the Australian Institute of Mining and Metallurgy. Mr Cruickshanks 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 (the JORC Code). Mr Cruickshanks has reviewed the contents of this presentation and consents to the inclusion in this presentation of all technical statements based on his information in the form and context in which they appear.