CORPORATE PRESENTATION

February 2020

WESTERN AREAS LTD

AGENDA





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The information within this PowerPoint presentation was compiled by Western Areas management, but the information as it relates to exploration results, mineral resources or ore reserves was prepared by Mr Graeme Gribbin, Mr Andre Wulfse or Mr Marco Orunesu-Preiata respectively. Mr Gribbin, Mr Wulfse and Mr Orunesu-Preiata are full time employees of Western Areas Ltd. Mr Gribbin is a member of Australian Institute of Geoscientists (AIG). Mr Wulfse and Mr Orunesu-Preiata are members of Australian Institute of Mining and Metallurgy (AusIMM) and have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (2012 JORC Code). Mr Gribbin, Mr Wulfse and Mr Orunesu-Preiata consent to the inclusion in this presentation of the matters based on the information in the form and context in which it appears.

This announcement is authorised for market release by Western Areas Limited Managing Director and CEO, Daniel Lougher.

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CORPORATE





Corporate overview



WSA
2.52
273.5
689.2
184.9

COSMOS

Odysseus

165kt Ni Ore Reserves 265kt Ni Mineral Resource First Production CY2022

FORRESTANIA

Flying Fox 5.0kt Ni mined 1H20 16.5kt Ni Ore Reserves 74.2kt Ni Mineral Resource

Spotted Quoll 6.7kt Ni mined 1H20 57.9kt Ni Ore Reserves 72.2kt Ni Mineral Resource **VESTERN AUSTRALIA**

COSMOS

FORRESTANIA

• Kalgoorlie

Esperance

• Perth



FY20 guidance

Category	FY20 Guidance
Nickel tonnes in Concentrate Production	21,000 to 22,000
Unit Cash Cost of Production (Nickel in Concentrate)	A\$2.90/lb to A\$3.30/lb
Mine Development	A\$33m to A\$38m
Capital & Growth	A\$7m to A\$10m
Odysseus Development	A\$75m to A\$85m
Exploration	A\$14m to A\$17m

Comments

- Nickel Production 1HFY20 at mid point of guidance
- Unit cash costs A\$3.07/lb for 1HFY20 mid point of guidance
 - FY20 guidance reflects mine plans (Spotted Quoll ore being mined in lower, stage two, levels) and cost trends for rise & fall, labour rates and mining consumables
- Mine Development sustaining and mine development on track
- Capital and Growth feasibility studies and capital expenditure at the Cosmic Boy Concentrator and scat leach trial
- **Odysseus Development –** Timing of some expenditure expected to change as development activity increases and the mining and construction schedules firm. Selected activities, largely the shaft haulage equipment and civil works, brought forward into FY20.
- Exploration investment biased toward 1HFY20. Expected to track toward top end of guidance.



Western Areas are safe areas



Days LTI free



12 month LTIFR moving average







GROWTH AND EXPLORATION





Key tenement holdings





Nickel growth pipeline



Many projects in the pipeline to drive nickel production well into the future
Ore Reserves have substantially increased in FY19 with Odysseus









Mill recovery enhancement project (MREP)

Enhances average concentrator nickel recovery and generates value from waste tailings streams

Produces additional higher-grade product (45%-50% Ni), being sold to new, EV battery linked customers

- Product specification achieved. Working to improve leach volume reporting to high grade nickel sulphide precipitate
- Sale of high grade nickel sulphide precipitate achieving premium payables versus flotation concentrate
- Back-end of plant capable of up to 4,000t of nickel pa Mill Scats, New Morning, Flying Fox LG to provide future feed options

Front End – BioHeap Leach

- 1400 tpa capacity
- Tailings stream from Cosmic Boy - applies BioHeap Leach, then passes to precipitation



Back End – Precipitation

- 4000 tpa capacity
- 1400 tpa leached material from BioHeap front end
- 2600tpa other sources of nickel in solution eg. heap leach elsewhere in Forrestania, or scats treatment



MREP unlocks value







ODYSSEUS MINE DEVELOPMENT





Cosmos operation – the new hub!

WESTERN AREAS' SECOND OPERATION:

- Outstanding nickel address
- Odysseus early works completed on schedule-Decline rehabilitation to 500m below surface and underground pump station construction completed.
- Mine rehabilitation continuing to new Decline take-off
- Camp commissioned with over 300 rooms available out of 520







Odysseus mine – now a long life project > 10yrs

Long life, low cost project:

- ✓ Ore Reserve 8.1mt @ 2.0% for 164kt nickel
- ✓ Mine life > 10 years
- ✓ AISC A\$3.50/lb
- ✓ Average nickel in concentrate production >13.0ktpa (14.6ktpa from FY24-FY31)

Significant upside:

- AM5/6 deposits contain an Indicated Mineral Resource of 57.6kt of nickel (not included in DFS)
- ✓ Record massive sulphide intersections





Odysseus mine – underground infrastructure

- Pre-production capex A\$299m includes:
- ✓ Updated development expenditure profile is now FY20 – A\$80m, FY21 – A\$66m, FY22/23 – A\$143m
- ✓ Shaft hoisting system
- ✓ 900ktpa concentrator
- WSA is well funded with cash and has no debt
- ✓ Significant optionality on decision-making and spending





Production ~900k tpa ore

- Minimum 10 year mine life on reserves
- Annual ore production of 900kt
- First Ni concentrate late CY 2022
- Consistent annual nickel production





Shaft infrastructure

- WSA has purchased a high quality, second hand head gear and winder
- Shaft infrastructure dismantling completed. Now being refurbished in South Africa prior to shipping to Perth
- Significant economical and environmental benefits versus trucking

Key Metrics:

- ✓ 5.5m diam. raise bore
- ✓ 4 guide ropes per conveyance
- ✓ 1.27Mtpa (ore and waste)
- ✓ 12 t skips
- ✓ 1 truck required to feed shaft
- ✓ 4.5 MW peak power





Shaft infrastructure













The benefits of shaft hoisting

Electrical power vs diesel

- Future proofing the operation
- Combined with renewable power = energy efficient site, 85% reduction in CO₂
- Low, consistent opex and proven technology
- Fully automated winder and materials handling system direct to mill
- Cycle time: ~3 mins

Equivalent truck fleet ~ 8 trucks

- Save 1.5 ML diesel burnt pa (DPM)
- Remove 5 MW of heat generated from diesel engines
- Remove minimum 200m³/s of additional ventilation requirement (another vent shaft)
- Removes issue of existing decline constraints





OPERATIONS





Flying Fox mine

Reserve	0.50Mt @ 3.4%
Contained nickel	16,450 Ni tonnes
Resource	1.31Mt @ 4.6%
Contained nickel	74,215 Ni tonnes
Mine life (on reserves)	2 years

Key points:

- FY19 production 9.9k Ni tonnes
- Has been operating for over 14 years
- Significant low grade disseminated resource
- Lower grade & heap leach evaluation underway





Spotted Quoll mine

Reserve	1.45Mt @ 4.0%
Contained nickel	57,900 Ni tonnes
Resource	1.37Mt @ 5.2%
Contained nickel	72,178 Ni tonnes
Mine life (on reserves)	6 years

Key points:

- Has never recorded an LTI
- FY19 production 13.3k Ni tonnes
- Production has outperformed reserve tonnes and grade consistently
- Top down mining with paste fill
- Resource extension drilling commenced nickel tonnes being added to Resource





Cosmic Boy nickel concentrator

Concentrator Summary

- 12% above name plate capacity of 550,000 tpa
- Concentrate grades of between 15.0% to 16.0% Ni
 - Premium blending product (Fe/Mg ratio >15:1)
 - ✓ Desirable to smelters and roasters

Export Infrastructure and Logistics

- Export concentrate transported to Esperance Port in containers and shipped through to China
- BHP Nickel West concentrate delivered to Kambalda by road





Offtake contracts best in class

New contracts executed with strategic partners following successful completion of a highly competitive tender process

Improved commercial terms when compared to previous offtake agreements

Premium blending concentrate - superior commercial terms

Our Partners:

- BHP: 50%
- Jinchuan: 50%
 - ✓ China's largest nickel cathode producer
 - ✓ Direct feeder of the Chinese nickel sulphate market

Discussion ongoing with offtake parties that are linked to the Electric Vehicle battery pre-cursor sector for future MREP production of high grade premium nickel sulphide and potential for Odysseus concentrate to feed this market.





THE NICKEL MARKET





What we are seeing

- Technology change to NCM 811 which requires higher quantity of nickel
- Increasing forecasts of hybrid and EV production in China.
- Major car OEM's taking position in Chinese market
- Jinchuan (largest nickel cathode producer in China) increasing nickel sulphate volumes
- Recent Indonesian decision to bring forward ore export ban to 1st Jan 2020 from Jan 2022 – currently accounts for ~10% of supply
- LME and other stockpiles shrinking on the back of current stainless demand and EV growth







Source: LME, SHFE, Bloomberg, CBA estimates



The present – driven by stainless steel

- Current nickel price too low to incentivise new project development. New mine development can take 3 years – the nickel "pie" is not expanding
- May see divergent market in nickel supply emerging between stainless steel and EV









The future – EV demand for nickel

- Potentially very significant incremental demand versus a current nickel market size of c.2,200kt
- Research indicates NMC 811 will be the fastest growing battery combination by 2025!
- Tesla factory opened in Shanghai to produce EV's for Chinese Market



Source: Bernstein - June 2018



Nickel deficits NOW a reality!

Long term trends supporting Ni consumption growth:





Source: INSG, CRU, LME, Macquarie Strategy, August 2018



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