



# Building Kalgoorlie's next 100kozpa gold producer

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Diggers & Dealers | August 2024  
Marc Ducler, Managing Director



**ASTRAL**  
RESOURCES

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## Compliance Statement

The information in this presentation that relates to Estimation and Reporting of Mineral Resources for the Mandilla Gold Project is based on information compiled by Mr Michael Job, who is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM). Mr Job is an independent consultant employed by Cube Consulting. Mr Job has sufficient experience that 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 Job consents to the inclusion in this 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 Estimation and Reporting of Mineral Resources for the Feysville Gold Project is based on information compiled by Mr Richard Maddocks, who is a Fellow of the Australasian Institute of Mining and Metallurgy (FAusIMM). Mr Maddocks is an independent consultant to the Company. Mr Maddocks has sufficient experience that 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 Maddocks consents to the inclusion in this announcement of the matters based on the information in the form and context in which it appears

The information in this presentation that relates to exploration targets and exploration results is based on information compiled by Ms Julie Reid, who is a full-time employee of Astral Resources NL. Ms Reid is a Competent Person and a Member of The Australasian Institute of Mining and Metallurgy. Ms Reid 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. Ms Reid consents to the inclusion in this presentation of the material based on this information, in the form and context in which it appears.

The information in this presentation that relates to metallurgical test work for the Mandilla Gold Project is based on, and fairly represents, information and supporting documentation compiled by Mr Marc Ducler, who is a full-time employee of Astral Resources NL. Mr Ducler is a Competent Person and a Member of The Australasian Institute of Mining and Metallurgy. The information that relates to processing and metallurgy is based on work conducted by ALS Metallurgy Pty Ltd (ALS Metallurgy) on diamond drilling samples collected under the direction of Mr Ducler and fairly represents the information compiled by him from the completed ALS Metallurgy testwork. Mr Ducler 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. Mr Ducler consents to the inclusion in this presentation of the material based on this information, in the form and context in which it appears.

## Previously Reported Results

There is information in this presentation relating to exploration results which were previously announced on 16 July 2009, 31 January 2017, 14 February 2018, 23 April 2018, 15 May 2018, 15 August 2018, 26 March 2019, 8 April 2019, 16 July 2019, 19 June 2020, 11 August 2020, 15 September 2020, 17 February 2021, 26 March 2021, 20 April 2021, 20 May 2021, 29 July 2021, 26 August 2021, 27 September 2021, 6 October 2021, 3 November 2021, 15 December 2021, 22 February 2022, 3 May 2022, 6 June 2022, 5 July 2022, 13 July 2022, 10 August 2022, 23 August 2022, 21 September 2022, 13 October 2022, 3 November 2022, 30 November 2022, 15 March 2023, 12 April 2023, 24 April 2023, 24 April 2023, 16 May 2023, 14 June 2023, 3 July 2023, 20 July 2023, 30 August 2023, 18 September 2023, 8 November 2023, 22 November 2023, 21 December 2023, 18 January 2024, 30 January 2024, 28 February 2024, 6 March 2024, 4 April 2024, 4 June 2024, 11 July 2024, 25 July 2024 and 2 August 2024. Other than as disclosed in those announcements, the Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements.

The information in this presentation relating to the Company's Scoping Study are extracted from the Company's announcement on 21 September 2023 titled "Mandilla Gold Project – Kalgoorlie, WA. Positive Scoping Study". All material assumptions and technical parameters underpinning the Company's Scoping Study results referred to in this presentation continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.



# Moving to Development in a Tier-1 Location

- ✓ Mandilla Scoping Study delivered a large scale, long-life mine development with robust financials from conservative cost and revenue assumptions

- ✓ 100kozpa of gold production<sup>1</sup>
- ✓ NPV<sub>8</sub> of \$442M
- ✓ Free cashflow of \$740M
- ✓ Payback of ~9 months
- ✓ Gold price of \$2,750/oz

- ✓ Shallow, high-quality resource base with 1.27Moz at Mandilla and 116koz at Feysville

- ✓ Strong history of exploration growth - drilling is ongoing and will continue to expand project scale





# Corporate Overview

Shares on Issue  
**935.2M**

Market Capitalisation  
**\$69.2M**  
(at \$0.074 per share)

Options / Rights  
**69.6M/15.2M**  
(Ave exercise price 12c)

Cash on Hand <sup>2</sup>  
**\$5.8M**  
(30 June 2024)

Gold Spot Price  
**A\$3,750**



| Gold price sensitivity          |           |       |       |       |       |            |
|---------------------------------|-----------|-------|-------|-------|-------|------------|
| Gold price (A\$/oz)             | 2,750     | 3,000 | 3,250 | 3,500 | 3,625 | 3,750      |
| NPV <sub>8</sub> Pre-tax (A\$m) | 442       | 579   | 716   | 854   | 922   | 991        |
| Pretax IRR (%)                  | 73        | 92    | 110   | 127   | 136   | 145        |
| Payback (months)                | 9         | 8     | 7     | 6     | 6     | 6          |
| Free cashflow (A\$m)            | 740       | 946   | 1,152 | 1,358 | 1,462 | 1,565      |
|                                 | Base Case |       |       |       |       | SPOT PRICE |

## Significant Shareholders:



|                    |       |
|--------------------|-------|
| Board & Management | 5.0%  |
| Braham Entities    | 8.8%  |
| Burke Entities     | 7.6%  |
| Jones Entities     | 6.2%  |
| Top 20             | 54.8% |
| Institutions       | 8.2%  |



# Corporate & Technical Capability

## Board of Directors



**Mark Connelly**  
Non-Executive Chairman

Mark is a Corporate Executive with a track record for deal making and was principally responsible for the merger of Papillon Resources and B2 Gold Corp in October 2014, as well for Adamus Resources Limited and Endeavour Mining Merger in September 2011.



**Justin Osborne**  
Non-Executive Director

Mr Osborne has over 30 years experience as an exploration geologist. He was previously an Executive Director at Gold Road Resources (ASX: GOR) and was pivotal to the resource development of the world class Gruyere Gold Deposit (6.6Moz Au).



**Peter Stern**  
Non-Executive Director

Is a graduate of Monash University with a Bachelor of Science (geology major). Mr Stern's career has been in corporate advisory, spending six years with Macquarie Bank and three years with both UBS and Deutsche Bank.



**David Varcoe**  
Non-Executive Director

David Varcoe is a mining engineer has more than 30 years experience in the industry. He has extensive operational and managerial experience across a number of commodities including gold, iron ore, copper, diamonds, coal, uranium and rare earths.

## Management Team



**Marc Ducler**  
Managing Director

Marc Ducler has over 20 years' experience in the mining industry. He was previously the Managing Director of Egan Street Resources (ASX:EGA) until its successful takeover by Silver Lake Resources (ASX:SLR).



**Brendon Morton**  
Chief Financial Officer &  
Company Secretary

Brendon has over 20 years experience including a significant amount of experience in the global resources sector, including Australia, Africa and Asia. Brendon has held a number of executive financial and company secretarial roles with both ASX listed and unlisted companies operating in the resources sector.



**Julie Reid**  
Geology Manager

Julie has 36 years experience working throughout Australia, Vietnam and Indonesia covering a range of commodities within diversified geological terrain. Julie holds a Bachelor of Applied Science from Curtin University of Technology.



**Steve Lampron**  
Technical Services Manager

Steve is a Mining Engineer with more than 20 years industry experience. As well as having worked in production roles for companies such as Placer Dome, Barrick and North American Palladium he has also worked as a Consultant for over 10 years.

# Flagship Mandilla Gold Project



Strategic land package in a premier gold mining jurisdiction, **70km south of Kalgoorlie**



Total MRE has grown to **37Mt at 1.1g/t Au for 1.27Moz** of contained gold

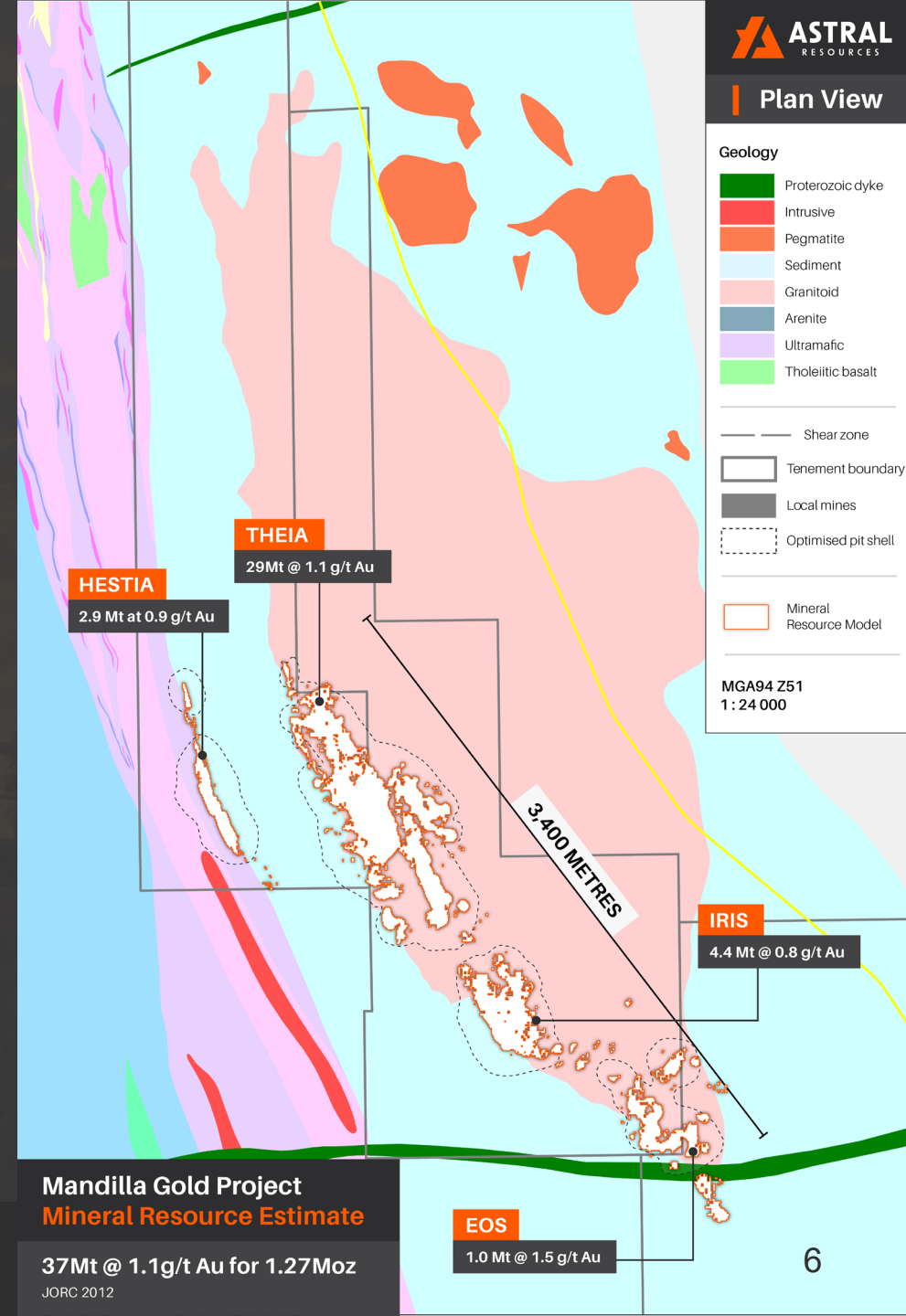


Robust Scoping Study Outcome – producing 100koz pa for the first seven years and **845koz over the 11-year LOM**

## Theia deposit is the cornerstone

Represents 81% of the Mandilla MRE – **29Mt at 1.1g/t Au for 1.02Moz** of contained gold in one large open pit

A rare +1Moz undeveloped gold deposit in the WA Goldfields





# July 2023 MRE – Achieved Critical Mass for Scoping

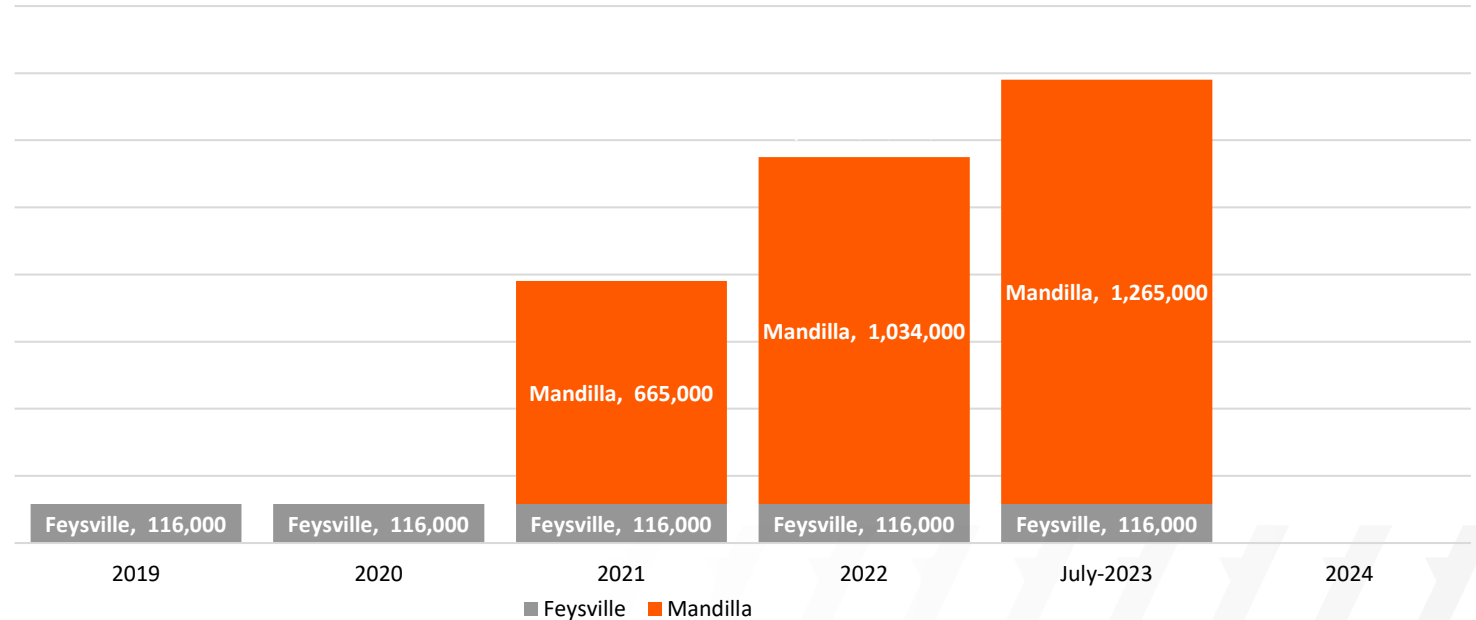
July 2023 MRE added

**231,000oz**

at a **discovery cost of \$18 per oz**, including a **69%** increase in Indicated ounces from a predominantly in-fill drill program

**x10**

More than tenfold increase in group resource ounces since 2019

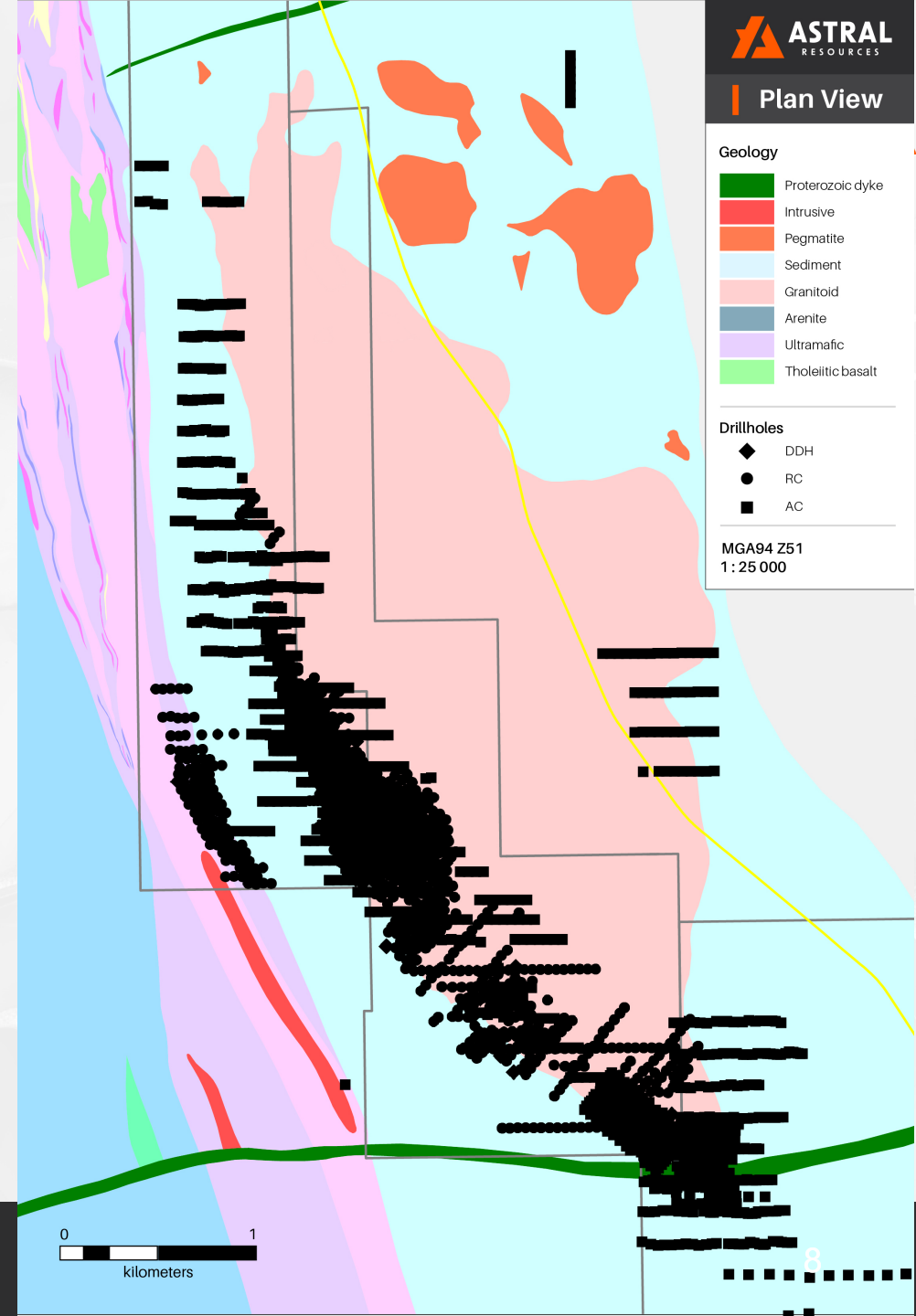


| Mineral Resource Estimate for the Mandilla Gold Project (Cut-off Grade >0.39g/t Au) |             |            |              |
|-------------------------------------------------------------------------------------|-------------|------------|--------------|
| Classification                                                                      | Tonnes (Mt) | Gold (g/t) | Ounces (koz) |
| Indicated                                                                           | 21          | 1.1        | 694          |
| Inferred                                                                            | 17          | 1.1        | 571          |
| Total                                                                               | 37          | 1.1        | 1,265        |

The preceding statement of Mineral Resources conforms to the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code) 2012 Edition. All tonnages reported are dry metric tonnes. Minor discrepancies may occur due to rounding to appropriate significant figures.

# Mandilla – Significant Growth Potential

- Potential analogues include:
  - Granny Smith (2Moz)
  - Red Hill (2.5Moz)
  - King of the Hills (4.5Moz)
- Average depth of drilling at Theia and Iris is 151m within the Emu Rocks granite intrusion – known mineralised footprint occupies only 13% of the intrusion
- Outside of Theia and Iris, average depth of drilling is 50m  
Theia is open at depth with diamond drilling to 450m down-hole remaining in mineralisation



Geology

- Proterozoic dyke
- Intrusive
- Pegmatite
- Sediment
- Granitoid
- Arenite
- Ultramafic
- Tholeiitic basalt

Optimised pit shell

Mineral Resource Model

Drillholes

- DDH
- RC
- AC

MGA94 Z51  
1 : 25 000

All drilling outside of the  
Mineral Resource Shells

All drilling outside of the  
Mineral Resource Shells  
and >50 metres in depth

**HESTIA**

2.9 Mt at 0.9 g/t Au

**THEIA**

29Mt @ 1.1 g/t Au

**IRIS**

4.4 Mt @ 0.8 g/t Au

**EOS**

1.0 Mt @ 1.5 g/t Au

0 1  
kilometers

Geology

- Proterozoic dyke
- Intrusive
- Pegmatite
- Sediment
- Granitoid
- Arenite
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Optimised pit shell

Mineral Resource Model

Drillholes

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4.4 Mt @ 0.8 g/t Au

**EOS**

1.0 Mt @ 1.5 g/t Au

0 1  
kilometers



# Scoping Study Highlights – Long-Life, Profitable Mine

## +100kozpa production profile

1.3g/t average for 7.4yrs

## Long mine life

7.8 yrs mining,  
10.4 yrs processing

## Profitable, high-margin

AISC  
A\$ 1,648/oz over LOM

## Funding quantum in reach

2.5Mtpa plant and NPI  
A\$123M  
Pre-production A\$68.4M

## Robust Financials (post Capex/Pre-tax at A\$2,750/oz Au)

NPV<sub>8</sub> \$442M  
FCF \$740M  
Payback 9 months

## Simple and conventional

Conventional D&B, load & haul open pit  
S/R 5.8\*  
Simple processing  
Excellent metallurgy  
+95% recovery



## WA – Tier-1 location on the doorstep of Kalgoorlie

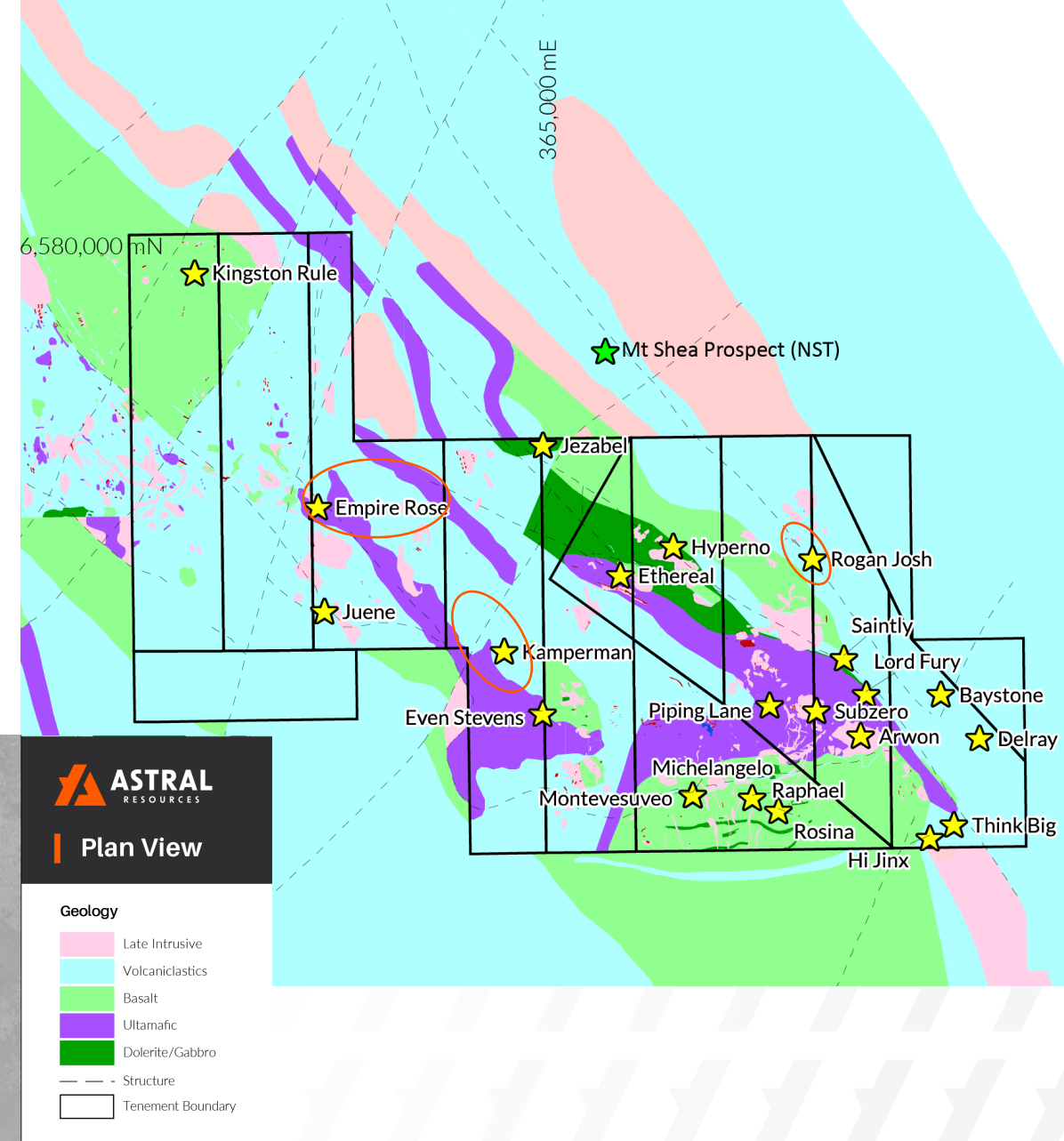
A mining region with a successful development history, granted mining leases, excellent infrastructure and 20 mins from Kambalda

# Feysville – Icing on the Cake

- 14km south of Kalgoorlie – potential to yield multiple 100koz scale deposits
- Current MRE: **3Mt at 1.3g/t Au for 116,000oz<sup>5</sup>** at Think Big
- Maiden MRE's pending for Kamperman and Rogan Josh are likely to deliver a sub \$20 discovery cost
- Recent reconnaissance drilling has identified a potential Kamperman analogue 1.5km to the NW

## The Opportunity

The first 5 years of processing at Mandilla, 4.5Mt of 0.6g/t ore, is fed into the proposed process plant, higher-grade Feysville ore of 1.1g/t – 1.3g/t could add 75koz – 100koz of additional gold production.





# Why invest with Astral?



Scoping Study  
based on a  
robust Mineral  
Resource  
Estimate



Comprehensive  
Scoping Study –  
arguably meets  
PFS standard or  
better particularly  
in geotechnical  
and mine  
design/schedule



Simple  
metallurgy,  
simple  
processing



Conservative  
revenue and  
reasonable  
cost  
assumptions



Compelling  
financial  
metrics



Exploration  
upside at  
Mandilla and  
Feysville

**Astral is the only ASX junior with a project of this scale  
in the Kalgoorlie/Kambalda region**



# Core Value Proposition

Greenfields open pit opportunity

Located in the heart of the Goldfields

Robust positive Scoping Study

1.38Moz Resource base and growing

1Moz in a single pit

Significant growth potential

Experienced team with track  
record of value creation

# Appendix 1



## Mineral Resource Estimate for the Mandilla Gold Project (Cut-off Grade >0.39 g/t Au) <sup>6</sup>

| Classification | Tonnes (Mt) | Gold (g/t) | Ounces (koz) |
|----------------|-------------|------------|--------------|
| Indicated      | 21          | 1.1        | 694          |
| Inferred       | 17          | 1.1        | 571          |
| <b>Total</b>   | <b>37</b>   | <b>1.1</b> | <b>1,265</b> |

## Mineral Resource Estimate for the Feysville Gold Project (Cut-off Grade >0.5 g/t Au) <sup>7</sup>

| Classification | Tonnes (Mt) | Gold (g/t) | Ounces (koz) |
|----------------|-------------|------------|--------------|
| Indicated      | 2.3         | 1.3        | 96           |
| Inferred       | 0.6         | 1.1        | 20           |
| <b>Total</b>   | <b>2.9</b>  | <b>1.3</b> | <b>116</b>   |

## Astral Resources Combined Group Mineral Resource Estimate

| Classification | Tonnes (Mt) | Gold (g/t) | Ounces (koz) |
|----------------|-------------|------------|--------------|
| Indicated      | 23          | 1.1        | 790          |
| Inferred       | 18          | 1.1        | 591          |
| <b>Total</b>   | <b>40</b>   | <b>1.1</b> | <b>1,381</b> |

The preceding statement of Mineral Resources conforms to the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code) 2012 Edition. All tonnages reported are dry metric tonnes. Minor discrepancies may occur due to rounding to appropriate significant figures.

# Appendix 2



| Key Physicals Assumptions     | UOM   | Input   |
|-------------------------------|-------|---------|
| Mining Duration               | Years | 7.8     |
| Processing Duration           | Years | 10.8    |
| Waste Mined                   | kt    | 160,520 |
| Mineral Resource Mined        | kt    | 26,476  |
| Plant Throughput              | ktpa  | 2,500   |
| <b>Mine Production Target</b> |       |         |
| Material Mined                | kt    | 26,476  |
| Au Grade                      | g/t   | 1.04    |
| Au Ounces Contained           | koz   | 883     |
| <b>Processing Physicals</b>   |       |         |
| Material Processed            | kt    | 26,476  |
| Au Grade                      | g/t   | 1.04    |
| Ounces Contained              | koz   | 883     |
| Ounces Recovered              | koz   | 845     |

| Gold Price               | AUD/oz | Scoping Study |       |       |
|--------------------------|--------|---------------|-------|-------|
|                          |        | 2750          | 3000  | 3500  |
| NPV Pre-Finance, Pre-tax | AUD m  | 442           | 579   | 854   |
| Pretax IRR               | %      | 73%           | 92%   | 103%  |
| Payback                  | Years  | 0.75          | 0.67  | 0.5   |
| Annual EBITDA            | AUD m  | 88.8          | 107.9 | 146.3 |
| LOM EBITDA               | AUD m  | 954           | 1,160 | 1,573 |
| Free Cashflow            | AUD m  | 740           | 946   | 1,358 |

| Key Financial Assumptions                                           |             |              |
|---------------------------------------------------------------------|-------------|--------------|
| Gold Price Assumed                                                  | A\$/oz      | 2,750        |
| Discount Rate                                                       | %           | 8.00         |
| Key Project Metrics                                                 |             |              |
| Payable Metal                                                       | Koz         | 845          |
| <b>Gold Revenue</b>                                                 | <b>A\$M</b> | <b>2,325</b> |
| Mining Costs – Total                                                | A\$M        | 877          |
| Mining Costs – Pre-Production ( <i>capitalised</i> )                | A\$M        | (59)         |
| Mining Costs                                                        | A\$M        | 818          |
| Processing (including Maintenance, Transport, Insurance & Refining) | A\$M        | 461          |
| General and Administrative Costs                                    | A\$M        | 34           |
| Royalty ( <i>2.5% of gold revenue</i> )                             | A\$M        | 58           |
| <b>Project EBITDA</b>                                               | <b>A\$M</b> | <b>954</b>   |
| Depreciation and Amortisation                                       | A\$M        | 234          |
| Net Profit Before Tax (NPBT)                                        | A\$M        | 720          |
| Capital                                                             |             |              |
| Pre-Production Capital Expenditure                                  | A\$M        | 123          |
| Pre-Production Costs - Mining/General & Administrative              | A\$M        | 68           |
| Sustaining Capital                                                  | A\$M        | 23           |
| <b>LOM Capital</b>                                                  | <b>A\$M</b> | <b>214</b>   |
| Project Returns                                                     |             |              |
| <b>Project Free Cash Flow (undiscounted and pre-tax)</b>            | <b>A\$M</b> | <b>740</b>   |
| Project NPV <sub>8%</sub> (unleveraged and pre-tax)                 | A\$M        | 442          |
| Project IRR (unleveraged, pre-tax, calculated on annual basis)      | %           | 73%          |
| Payback Period (unleveraged and post-tax) <sup>1</sup>              | Years       | 0.75         |
| Capital Intensity <sup>2</sup>                                      | A\$/oz p.a. | 1,899        |
| NPV (unleveraged and pre-tax)/Pre-production Capital                | ratio       | 2.3          |





## Contact Us

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