

Analyst Site Visit Presentation – 27 March 2019



# Awak Mas Gold Project

*Indonesia's next long-life gold mine*

**NUSANTARA**  
RESOURCES LIMITED



ASX: NUS  
[www.nusantararesources.com](http://www.nusantararesources.com)

## Fast Track Development of Awak Mas Gold Project

Significant milestones achieved throughout 2018 for the advancement of the Awak Mas Gold Project:

Objective	Status
1. <b>Increase Mineral Resource</b>	✓ Drilling program completed with new Mineral Resource of 2.0 Moz at 89% Indicated <sup>4</sup> . Drilling of near mine opportunities to increase resource underway <sup>13</sup> .
2. <b>Secure Contract of Work</b>	<ul style="list-style-type: none"><li>✓ New Contract of Work (CoW) agreement with Government of Indonesia signed in March 2018, providing secure title until 2050 with extensions.</li><li>✓ Defers any mandatory divestment until 10 years after production commencement<sup>2</sup>.</li><li>✓ All approvals in place for construction.</li></ul>
3. <b>Definitive Feasibility Study</b>	✓ DFS completed in October 2018 – confirms technically, socially and financially robust project <sup>6, 9</sup> . Optimisation studies underway to increase project value.
4. <b>Contract of Work Exploration</b>	✓ Surface exploration is underway with a focussed systematic approach from sampling to geological model development - positive early results <sup>7, 12</sup> . Near mine exploration drilling program commence in February 2019 <sup>13</sup> .
5. <b>Strategic Partner</b>	✓ Investment by Indika Energy (19.9%) and increased investment by AustralianSuper (14%) confirms commitment to the development of the project <sup>11</sup> . Indika brings Indonesian operating and business experience.

**2019 focus:** Advancing work to complete financing for the development of the Awak Mas Gold Project.

# Nusantara Resources (ASX:NUS)



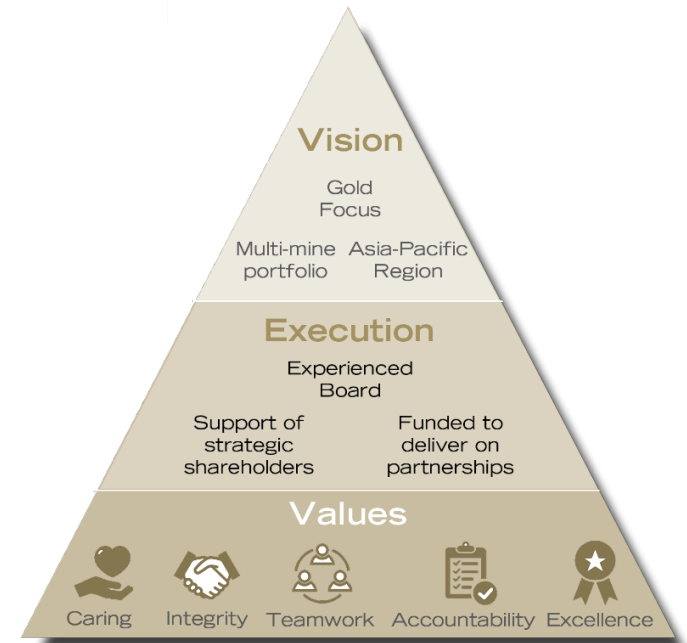
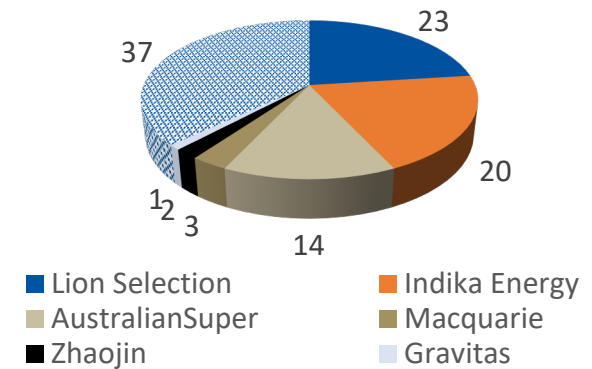
## Corporate Information at 19 March 2019

Shares on Issue:	167.8M
Options:	46.6M
Market Capitalisation (at A\$0.200/share):	A\$34M
Cash (as at 31 December 2018):	A\$9.0M

## Board

Name	Position	Speciality
Greg Foulis	Chairman	Finance
Mike Spreadborough	Managing Director	Mining
Boyke Abidin	President Director Indonesia Executive Director	Commerce
Rob Hogarth	Non-Executive Director	Financial
Robin Widdup	Non-Executive Director	Investment
Richard Ness	Non-Executive Director (Indika nominee)	Mining

## Top Shareholders (%)



**Working towards our vision**



# Awak Mas Gold Project, Sulawesi, Indonesia



Ref: g2649\_F01\_12 ~ Date: February 2019



# Sulawesi – long history of successful mining



- Population of 17 million
- Strong business and regulatory environment
- Robust multi-faceted economy
- Diverse and rich mining history - bauxite, gold, nickel, lithium
- Vastly under-explored with significant exploration potential
- Quality infrastructure - roads, ports, airports, and power
- Community supportive of resource sector
- Strategic partnerships through bilateral trade agreements

Ref: g2649\_F01\_14 ~ Date: March 2019



*Refer to Mining in Sulawesi fact sheet on Nusantara's website for more detailed information*



# Awak Mas Gold Project



## 100% owned Awak Mas Gold Project

### Long-life, low cost mine<sup>6</sup>

- 1.1 Moz Ore Reserve
- > 11 year open pit mine, ~100,000 oz/year
- Upfront Capex US\$146M, AISC US\$758/oz
- NPV<sub>5%</sub> US\$152M, IRR 20.3% (@ US\$1250/oz Au)
- After Tax Cash ~ US\$39M/year (av.)

### Stable and secure investment<sup>2, 11</sup>

- Investment by Indonesian company, Indika Energy
- No mandatory divestment until 10 years post-production
- Tenure secured to 2050 with extensions
- Approvals for construction
- Targeted production in 2021

### Exceptional growth opportunities<sup>8</sup>

- Potential to lift Awak Mas deposit grade by close spaced drilling (Measured category)
- Significant exploration potential for extension to existing deposits and for satellite deposits<sup>10</sup>



*Awak Mas Gold Project located in South Sulawesi, Indonesia*

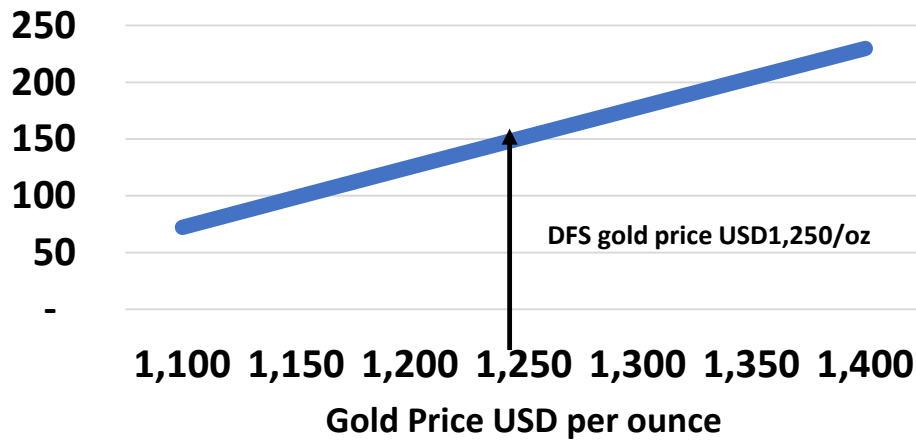
*Refer to Notes section at the end of the presentation for important details referenced throughout the presentation*

# Project Value Upside

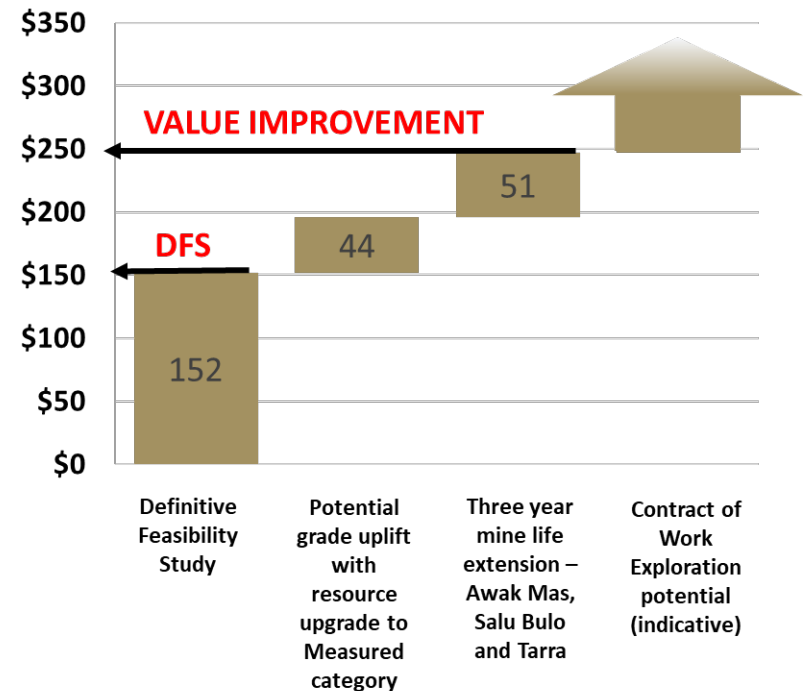


Strong leverage to gold price, reserves and grade<sup>6,8</sup>

**NPV Sensitivity to Gold Price  
(US\$ millions)**



**NPV Value Improvement  
(US\$ millions)**



Note: US\$1250/oz, IDR:USD 14,135, USD:AUD 0.74.

## Project has access to quality infrastructure and skills

- Project located 45 km from coast
- Good access to roads, two ports, airport, and telecommunication
- Powered by low cost grid power<sup>1</sup>
- Fuel terminal on coast near project
- Access to skilled mining workforce throughout Sulawesi



*Palopo Airport*



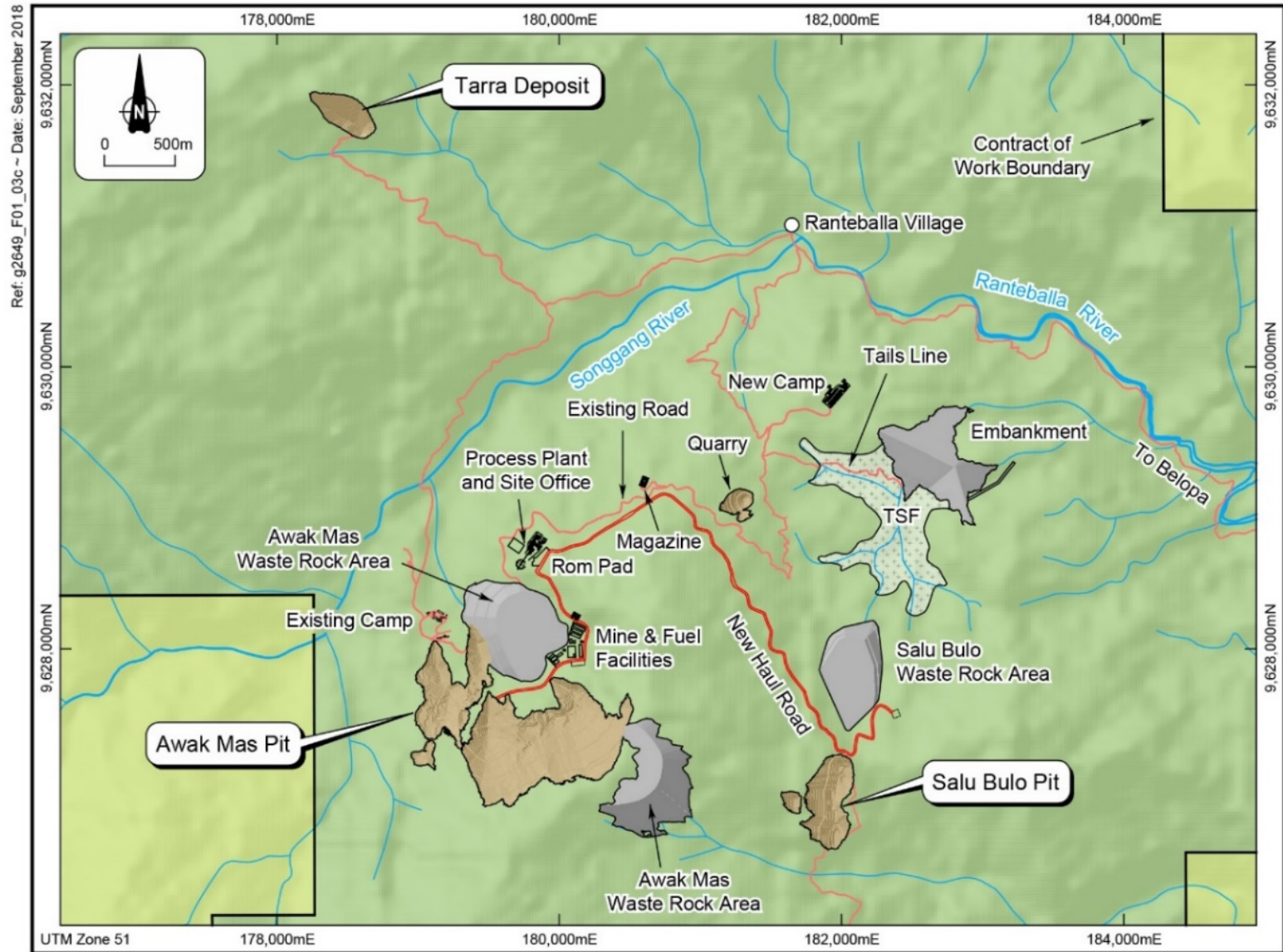
*PLN's Belopa substation under construction (February 2019) – provides feed to the Awak Mas project*



*Belopa Port*



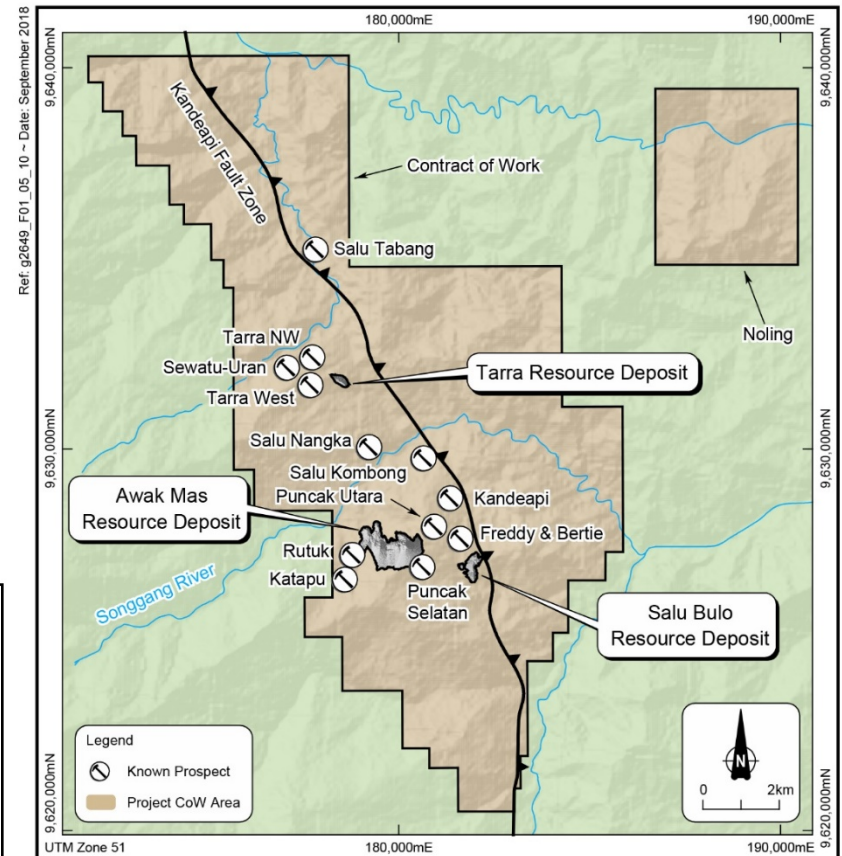
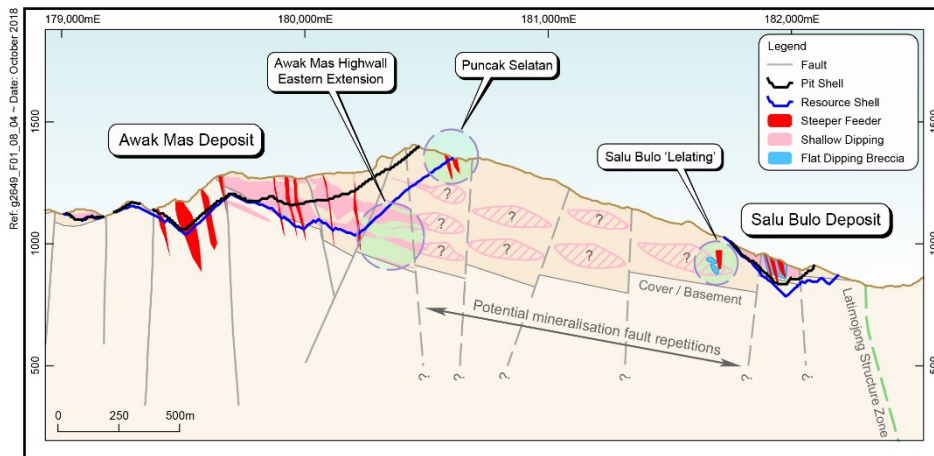
# Site Layout



Awak Mas Gold Project Site Layout

## 2.0 Moz Mineral Resource with potential to grow<sup>4</sup>

- Two phases of mineralisation with epithermal system extending beyond basement contact
- 1160 (~ 135 km) diamond drill-holes
- Mineral Resource (May 2018):
  - 45.3 Mt at 1.40 g/t Au (0.5 g/t Au cut-off)
  - 89% Indicated



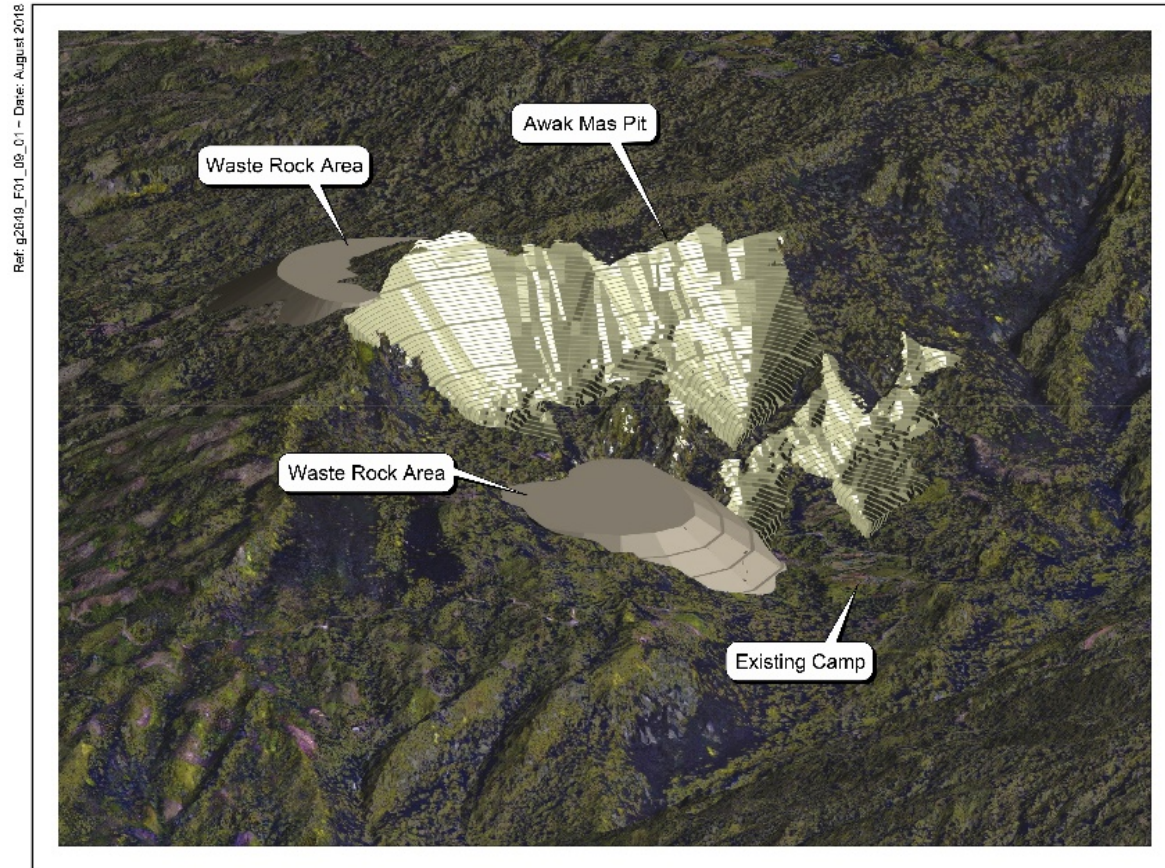
*14,390 ha Contract of Work*



## Low cost mining and low project strip ratio<sup>6</sup>

- Ore Reserve: 26.9 Mt at 1.32 g/t Au<sup>5</sup> (0.5 g/t Au cut-off, US\$1250/oz Au price)
- Underpins 2.5 Mtpa production
- Life-of-mine strip ratio of ~3.5
- Excavator & articulated truck operation
- Multiple ore sources

*Awak Mas Open Pit Design (August 2018)*





## High gold recovery processing<sup>6</sup>

- Conventional CIL (Whole of Ore leaching)
- Recovery – 81% to 98% (av. ~ 91%) – advanced metallurgical test work underway to confirm inputs for FEED
- Conventional downstream TSF – no deleterious elements
- Low cost: grid power<sup>1</sup>, moderate grind (75 microns), moderate reagent consumption



*Awak Mas Gold Project  
Processing Plant*

# Greenfields and CoW Area Exploration



## Targeting new discoveries with geophysics<sup>7,10,12</sup>

- Reprocessing of previous magnetics and radiometrics - enhanced imagery to base interpretation and provide targeting tools
- Regional scale structural and intrusive architecture of major west-northwest structural corridors revealed
- Mineralisation is interpreted to be intrusive related with magnetic high features coincident with known prospects
- Further prospect scale analysis will add more detail to interpretation particularly in Near Mine area; geological and geochemical data to be integrated with ongoing field evaluation

*Refer to Cautionary Exploration Statement - Note 10 in the Appendix*

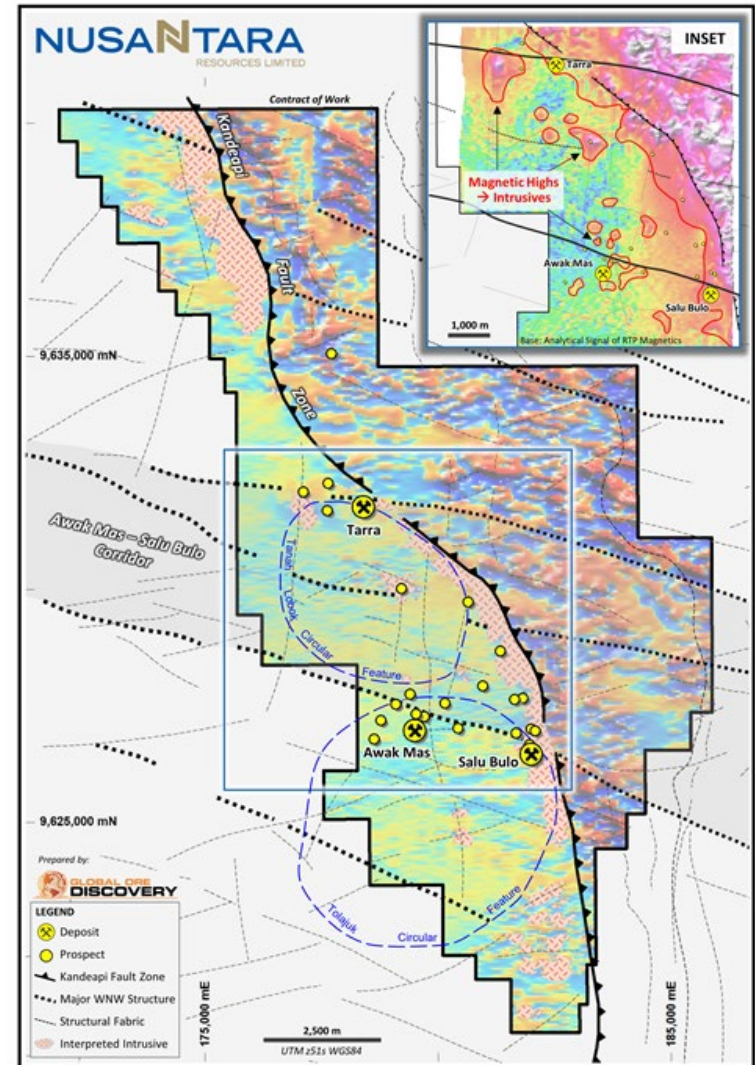
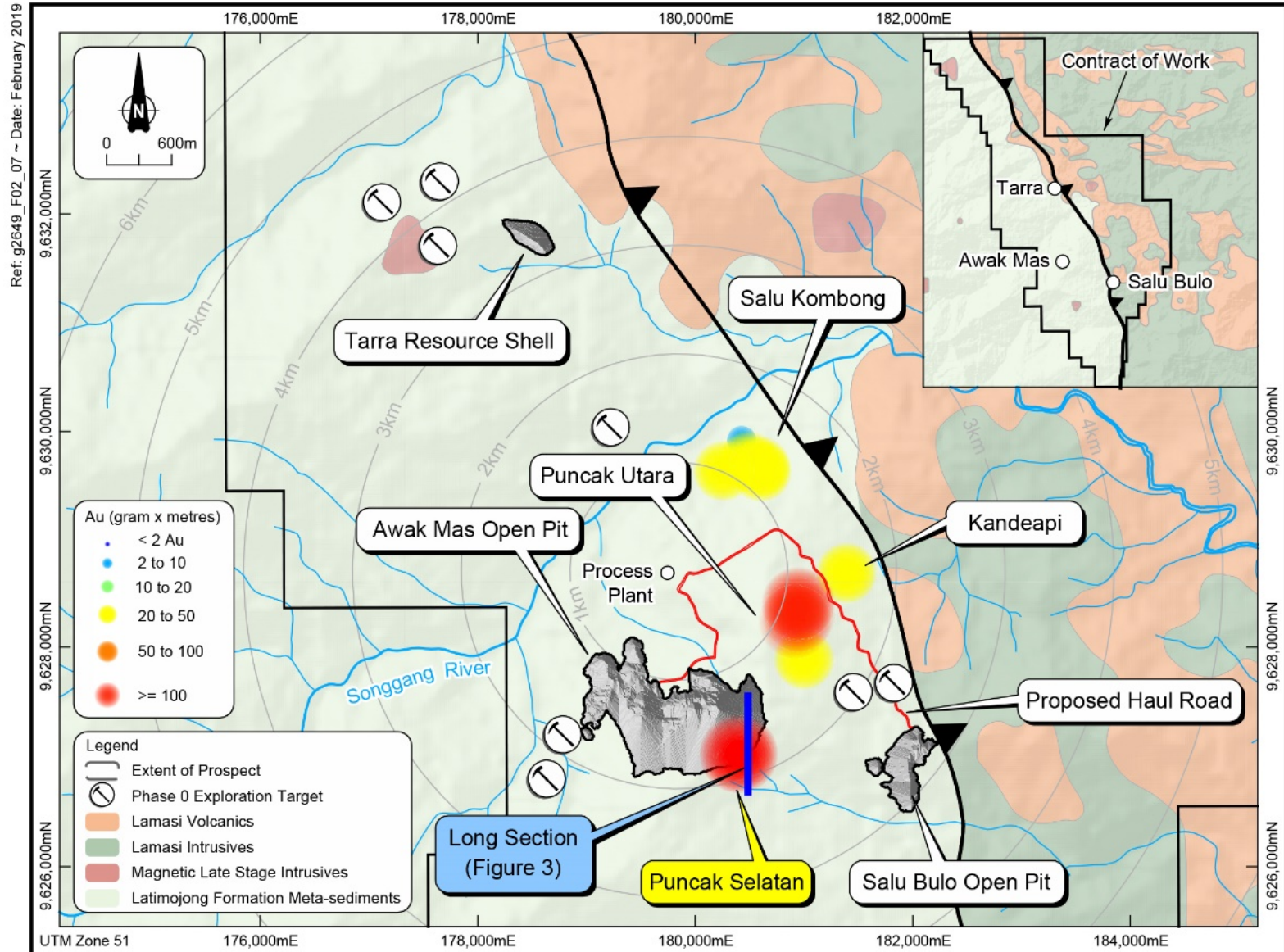


Figure 1: Structural and intrusive architecture with known mineralisation over RTP 1VD magnetics



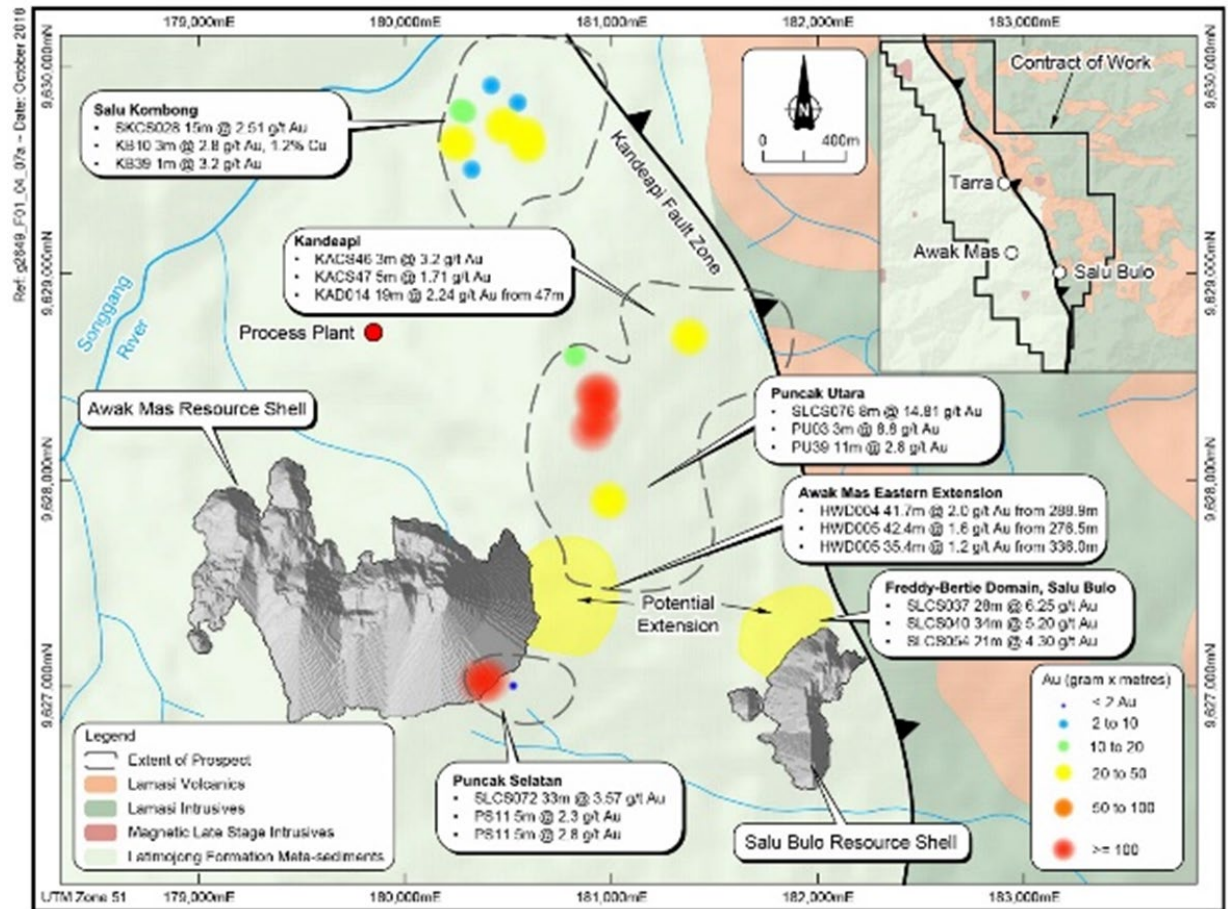
# Near Mine Prospects





## Significant exploration results close to Plant<sup>7,10,12</sup>

- Awak Mas and Salu Bulu extensions – potential +3 years project extension<sup>3, 8</sup>
- Trenching and surface sampling at prospects demonstrating large areas (up to 4 km by 3 km) of mineralisation
- Surface gold grades have higher tenor than Awak Mas surface expression
- Localised copper mineralisation sampled at Salu Kombong



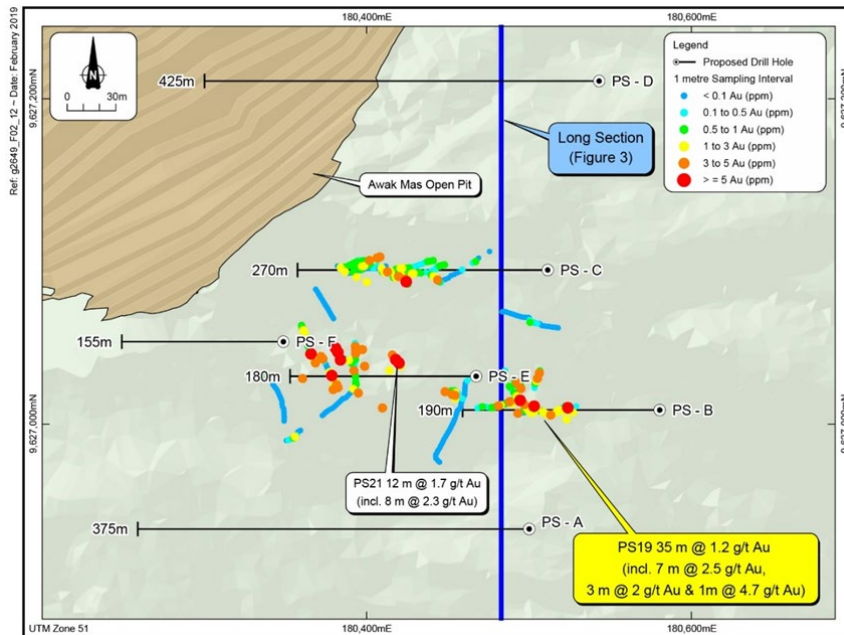
*Refer to Cautionary Exploration Statement - Note 10 in the Appendix*

# Puncak Selatan Near-Mine Exploration

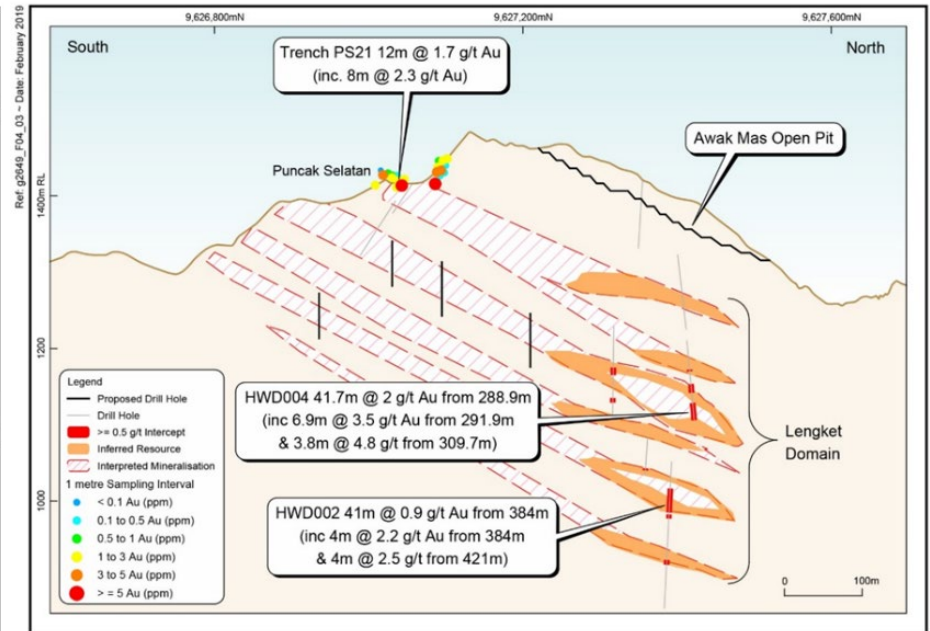


## Extensive surface mineralisation being tested<sup>13</sup>

- Six drill hole program underway to target the potential Lengket domain extension into Puncak Selatan
- Program success has potential to expand the Awak Mas open pit
- First results expected in early April 2019



*Puncak Selatan drilling program plan view showing hole locations and relationship to Awak Mas Open Pit*



*Puncak Selatan drilling program long section looking West showing projected up-dip extension of Lengket domain.*



## Our vision is to create an Asia-Pacific gold company

### Awak Mas Gold Project<sup>6</sup>

- ✓ > 11 year mine life, ~ 100,000 oz/year, targeted production in 2021
- ✓ US\$758/oz AISC, Av. After Tax Cash US\$39M/year
- ✓ Value improvement opportunities post DFS
- ✓ Potential to grow the mineral resource and ore reserve<sup>10,13</sup>
- ✓ Indonesian strategic partner secured with financing underway<sup>11</sup>



*Site Pre-start Meeting 27 March 2019*



# Mineral Resource and Ore Reserves



## Mineral Resource Estimate – May 2018<sup>4</sup>

Deposit	Classification	Tonnes (Mt)	Au Grade (g/t)	Contained Gold (Moz)
Awak Mas	Measured	-	-	-
	Indicated	36.4	1.4	1.62
	Inferred	3.1	1.0	0.10
	<b>Sub-total</b>	<b>39.5</b>	<b>1.4</b>	<b>1.72</b>
Salu Bulo	Measured	-	-	-
	Indicated	2.9	1.7	0.16
	Inferred	0.6	1.1	0.02
	<b>Sub-total</b>	<b>3.6</b>	<b>1.6</b>	<b>0.18</b>
Tarra	Measured	-	-	-
	Indicated	-	-	-
	Inferred	2.3	1.3	0.10
	<b>Sub-total</b>	<b>2.3</b>	<b>1.3</b>	<b>0.10</b>
<b>Total</b>	Measured	-	-	-
	Indicated	39.3	1.4	1.78
	Inferred	6.0	1.1	0.22
	<b>Total</b>	<b>45.3</b>	<b>1.4</b>	<b>2.00</b>

## Ore Reserve Estimate – September 2018<sup>5</sup>

Deposit	Classification	Tonnes (Mt)	Au Grade (g/t)	Contained Gold (Moz)
Awak Mas	Proved	-	-	-
	Probable	24.1	1.28	0.99
Salu Bulo	Proved	-	-	-
	Probable	2.8	1.67	0.15
<b>Total</b>	Proved	-	-	-
	Probable	26.9	1.32	1.14
	<b>Total</b>	<b>26.9</b>	<b>1.32</b>	<b>1.14</b>

### Note:

1. All Mineral Resources and Ore Reserves are completed in accordance with the 2012 JORC Code.
2. The Mineral Resource is reported at a cut-off grade of 0.5 g/t Au and constrained within US\$1,400 per ounce optimised pit shells.
3. The Ore Reserve is reported at a cut-off grade of 0.5 g/t Au and US\$1250 per ounce gold price
4. All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due to rounding.

1. Nusantara ASX Announcement, 15 August 2017, Grid Power Secured for Awak Mas.
2. Nusantara ASX Announcement, 15 March 2018, Awak Mas Long Term, Tenure and Ownership Secured.
3. Nusantara ASX Announcement, 4 April 2018, Significant Results for Awak Mas Eastern Drilling.
4. Nusantara ASX Announcement, 8 May 2018, Indicated Resource grows by a further 0.2 Moz.
5. Nusantara ASX Announcement, 13 September 2018, Ore Reserve increases by 11% to 1.1. Moz
6. Nusantara ASX Announcement, 4 October 2018, Definitive Feasibility Study Confirms Robust, Long-Life, Low Cost Project
7. Nusantara ASX Announcement, 4 October 2018, Significant Near Mine Mineralisation Identified
8. Further resource drilling and technical studies are required to confirm inclusion of any grade uplift or any mine life extension in the Mine Plan and Ore Reserve
9. Further technical studies are planned to confirm metallurgical assumptions post DFS
10. Any discussion in relation to potential exploration is conceptual; there has been insufficient exploration to define resources in addition to the current Mineral Resource Estimate reported in accordance with the guidelines of the JORC Code (2012 Edition) and it is uncertain if further exploration will result in the determination of additional Mineral Resources.
11. Nusantara ASX Announcement, 12 December 2018, Awak Mas development boosted by Indonesia strategic partner.
12. Nusantara ASX Announcement, 19 December 2018, High grade results from near mine exploration
13. Nusantara ASX Announcement, 17 February 2019, Near-mine Drilling Commenced

# Disclaimer

*Refer to Notes section at the end of the presentation for important details referenced throughout the presentation*



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# Competent Persons Statement



The information in this announcement that relates to the Ore Reserves of Nusantara Resources is summarised from publicly available reports as released to the ASX of the respective companies. The results are duly referenced in the text of this report and the source documents noted above.

## **Exploration and Resource Targets**

Any discussion in relation to the potential quantity and grade of Exploration Targets is only conceptual in nature. While Nusantara Resources may report additional JORC compliant resources for the Awak Mas Gold Project, there has been insufficient exploration to define mineral resources in addition to the current JORC compliant Mineral Resource inventory and it is uncertain if further exploration will result in the determination of additional JORC compliant Mineral Resources.

## **Exploration Results**

The information in this report which relates to Exploration Results is based on, and fairly represents, information compiled by Mr Colin McMillan, (BSc) for Nusantara Resources. Mr McMillan is an employee of Nusantara Resources and is a Member of the Australian Institute of Mining and Metallurgy (AusIMM No: 109791). Mr McMillan 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 McMillan consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

## **Mineral Resources**

The information in this report that relates to the Mineral Resource Estimation for the Awak Mas Gold Project is based on and fairly represents information compiled by Mr Adrian Shepherd, Senior Geologist, (BSc), MAusIMM CP, for Cube Consulting Pty Ltd. Mr Shepherd is an employee of Cube Consulting Pty Ltd and is a Chartered Professional geologist and a current Member of the Australian Institute of Mining and Metallurgy (AusIMM No: 211818).

Mr Shepherd 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 Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”. Mr Shepherd consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

## **Ore Reserves**

The information in this report that relates to the Ore Reserves Estimation for the Awak Mas Gold Project is based on and fairly represents information compiled by Mr David Varcoe, Principal Mining Engineer, for AMC Consulting Pty Ltd. Mr Varcoe is an employee of AMC Consulting Pty Ltd and is a current Fellow of the Australian Institute of Mining and Metallurgy (AusIMM No: 105971). Mr Varcoe 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 Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”. Mr Varcoe consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

## **Metallurgy**

The information in this report that relates to metallurgy and metallurgical test work and findings for Awak Mas Gold Project is based, and fairly represents information compiled by Mr John Fleay, Manager Metallurgy, FAusIMM, for Minnovo Pty Ltd. Mr Fleay is an employee of Minnovo Pty Ltd and is a current Member of the Australian Institute of Mining and Metallurgy (AusIMM No: 320872). Mr Fleay 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 Competent Persons as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves”. Mr Fleay consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

## **New Information or Data**

Nusantara Resources confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of estimates of Mineral Resources and Ore Reserves, which all material assumptions and technical parameters underpinning the estimates in the relevant market announcement 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 materially changed from the original market announcement.