



**Tolu Minerals Limited** 

PNG CR Company Camp, Baruni Road, National Capital District, Papua New Guinea Company Registration No.: 1-125888

Level 2, 52 Merivale Street, South Brisbane, QLD 4101, Australia ARBN: 657 300 359

2 December 2024

#### **Corporate Presentation**

The Directors of Tolu Minerals Limited ("Tolu", ASX:TOK, OTCQX:TOLUF) are pleased to release an updated Corporate Presentation.

Authorised for release by the CEO and Managing Director.

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**Media and Investors:** 

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**ASX:TOK, OTCQX:TOLUF** 

ARBN 657 300 359 1-125888

# **Tolukuma Project**

Iain Macpherson

Nov 2024

This document is not a prospectus and does not contain all of the information that an investor may require in order to make an informed investment. All geological data presented in this document, including, but not limited to, rock-chip samples and historic drilling results are included in the Prospectus and/or the Independent Geologists Report and ASX Market Releases available on the Company's and/or the ASX's website.

### **TOLU MINERALS STRATEGIC PILLARS**









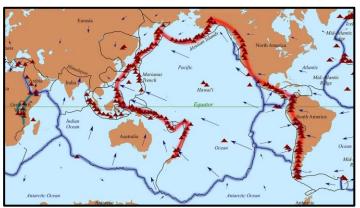






# **Tolukuma Gold Mine: Papua New Guinea**

- PNG is located on the Pacific Ring of Fire. It is host to:
  - Prolific gold/copper mineralisation
  - Many operating mines





- 100km as the crow flies from Port Moresby
- 60 km as the crow flies from the main North-South Hiritano Highway
- 35 km as the crow flies from Bakoiudu on the Tapini Road

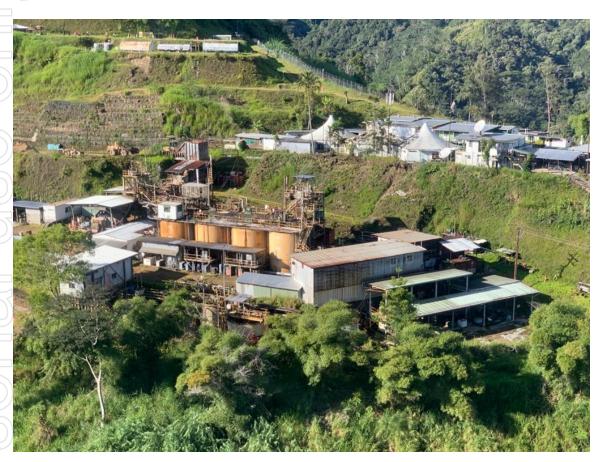


- Straightforward logistics:
- Due North of Australia
- On shipping lanes with good harbour facilities at Port Moresby and Lae
- Daily 3 hour flight between Brisbane and Port Moresby



### **Tolukuma Gold Mine**

- Fully self-contained mine with 20 years' high-grade gold & silver operating history circa 1 moz produced at 15g/t Au recovered
- > Significant Mineral Resource Estimate in place
- > Huge exploration upside both on and adjacent to the mine and also on the broader Tolukuma Structure
- Strong team in place and being expanded



#### Operational Plan:

- Refurbish the mine and infrastructure to support Tolu's growth objectives
  - Road
  - Hydroelectric power
  - Bottom entrance
- Grow the Mineral Resource
- Seek to recommence production in the near term
- Investigate scale opportunities

#### Tolu's vision:

- Refurbish the mine and infrastructure to support Tolu's growth objectives
- Build a much larger scale producer on the back of a substantial high-grade resource
- Define and develop potential gold/copper porphyry deposits



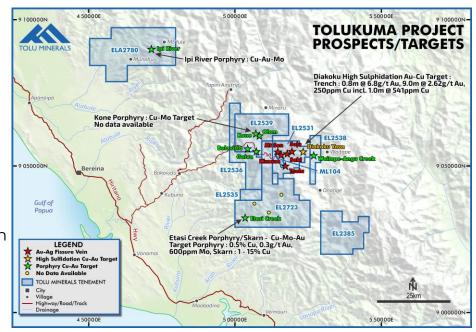
# Tolukuma Structure - c. 1,500km<sup>2</sup> Exploration Upside

7 exploration licenses on strike and parallel mineralised structures to Tolukuma gold mine

Additional EL application underway and a number of further targets

Building a material mineral resource pipeline around Tolukuma

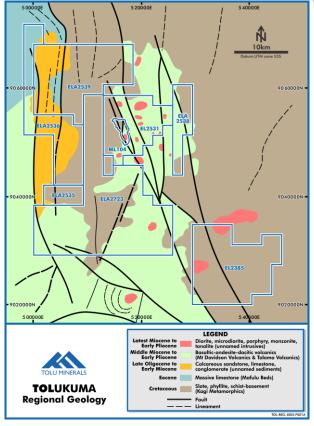
Potential for a major discovery on identified mineralised structures as well as entirely new parallel structures



#### **Next Steps:**

- prioritise targets underway supported by the Airborne MT results
  - recommence exploration including mapping, geophysical and geochemical exploration and drilling on close, known and identified targets - underway
- definition of new large gold zones underway
- pinpoint porphyries for further exploration planned

Post-IPO work is focused on accelerated exploration and a return to production



Dominant footprint on the highly prospective gold/copper Tolukuma Structure

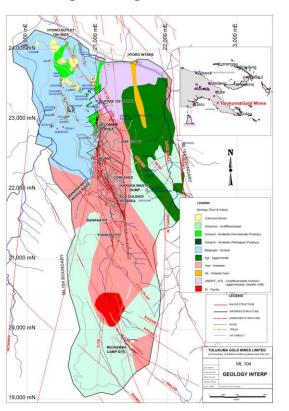
### **Tolukuma Mineral Resource Estimate**

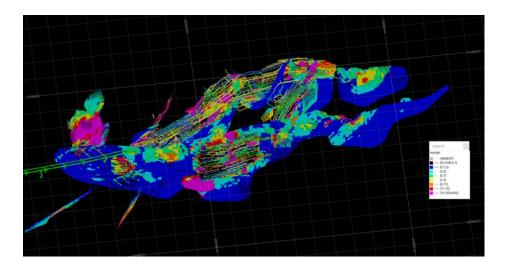
AMC reported an Inferred Mineral Resource as of 18 August 2022:

1.6 M tonnes @ 10 g/t Au and 38 g/t Ag

Contained metal 503 Koz Au and 1.9 Moz Ag

Cut – off grade 3 g/t





Domain	Tonnes (t)	Au (g/t)	Ag (g/t)	Au (oz)	Ag (oz)
Zine	488,000	9	43	146,000	673,000
Zine PK Splay	7,000	35	145	8,000	33,000
Tolukuma	140,000	9	27	40,000	121,000
Tinabar	55,000	13	42	23,000	74,000
Gulbadi	343,000	10	27	114,000	294,000
Gulbadi Red	115,000	8	19	29,000	69,000
120 Vein	56,000	5	15	8,000	28,000
Fundoot	212,000	13	59	91,000	403,000
Gufinis	149,000	7	39	31,000	187,000
Mystery	45,000	9	46	13,000	67,000
Total	1,610,000	10	38	503,000	1,950,000

Source: AMC, Oct 2022 Independent Geologists Report





### **Near Tolukuma Mine: Gold Prospects**

Based on the MRE tonnes and grades, extension of the Tolukuma vein system 2km to the SSE, grades of the Miliahamba prospect drilling, grades from drilling at Taula, Sisimonda and Kimono, grades and tonnage of the Saki Inferred Resource and trench sampling grades from the broader Saki-Yava-Soju-Salat system of gold veins, Tolu Minerals have developed an Exploration Target of 2 to 3 Moz Au grading 8 to 11 g/t Au\*

(refer to market announcement dated 11 December 2023 Investor Centre | Tolu Minerals)

Tolukuma Project Gold Exploration Target – December 2023											
	Project	Deposit	Rank	Low (tonnes)	High (tonnes)	Low (Gold)	High (Gold)				
	Tolukum a	Tolukuma Tolukuma South Miliahamba Taula Kimono Saki-Yava-Soju-Salat	High	7,800,000	8,500,000	8.0 g/t	11.0 g/t				
	Totals			7,800,000	8,500,000	8.0 g/t	11.0 g/t				

#### Competent Person Statement:

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by or compiled under the supervision of Peter Swiridiuk - Member of the Aust. Inst. of Geoscientists. Peter Swiridiuk is a Technical Consultant and member of the Tolu Minerals Ltd. Advisory Board. Peter Swiridiuk has sufficient experience which is relevant to the type of mineralisation and type of deposit under consideration to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code of Reporting Exploration Results, Mineral Resources and Ore Resources. Peter Swiridiuk consents to the inclusion in the report of the matters based on the information in the form and context in which it appears. Additionally, Mr Swiridiuk confirms that the entity is not aware of any new information or data that materially affects the information contained in the ASX releases referred to in this report.

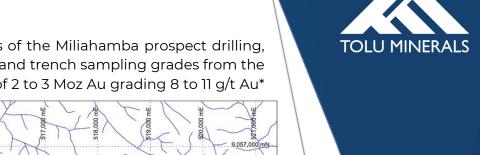
#### \*Cautionary Statement:

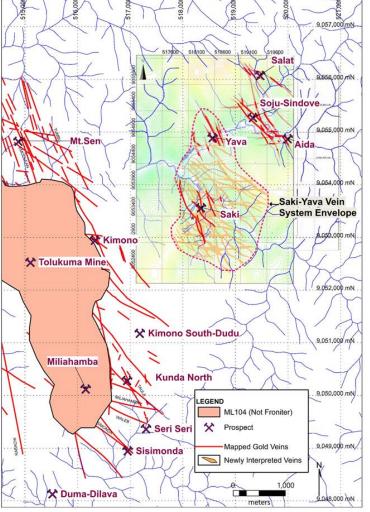
The Exploration Target for the Tolukuma gold project, describing the potential quantity and grade, is conceptual in nature. There has been insufficient exploration completed to estimate a Mineral Resource for all target areas reported and it is uncertain if further exploration will result in the estimation of further Mineral Resources.

#### Scale potential has been confirmed by:

the recent Airborne MT results (market announcement dated 9 September 2024, <a href="Investor Centre">Investor Centre</a> | Tolu Minerals); and

the recent Taula drilling results (market announcement dated 14 November 2024, <u>Investor Centre | Tolu Minerals</u>).

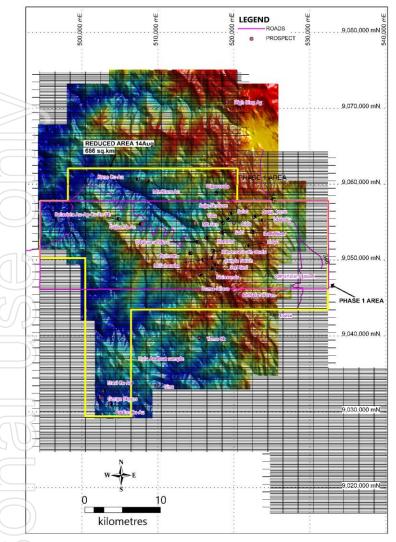






# **Tolukuma Gold Mine – Airborne MT Survey**



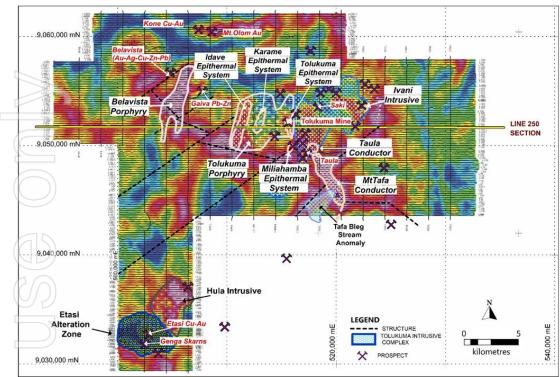




- State of the art geophysics
- Electrical resistivity imaging of the top 1 to 1.5km with complementary VLF data providing near surface conductivity information to define geological structures related to gold mineralisation, as well as magnetic data to help map geology.
- EGL is the global leader

# **Tolukuma Gold Mine – Airborne MT Survey**

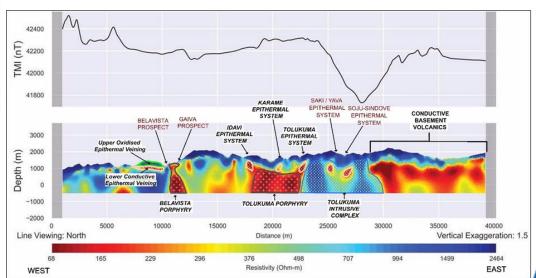




#### Interpreted Targets within Phase 1 Area Airborne MT Image

(223Hz Conductivity Image. Red = Higher Conductivities)

- Phase 1 of the Airborne MT survey completed over the Tolukuma, Ipi River and Mt Penck areas, including a higher resolution survey over the ML area
- Results at Tolukuma show advanced copper-gold porphyry and gold epithermal mineralising targets
- Significant conductivity anomaly demonstrates continuing mineralisation to over 2km beyond the Southern boundary
- Significant new areas of mineralisation identified surrounding Tolukuma ready for drill testing
- Results to date validate Tolu's decision to advance the timing of the Airborne MT



**Interpreted Targets along Airborne MT Cross-Section** 

(modelled Conductivity/Resistivity along Line 250 W-E



### **Tolukuma Gold Mine - Access Road**

- Complete the remainder of the 70 km access road connecting the mine to the Tapini road and Port Moresby;
- Strong community and government support
- Work commenced in December 2023 after the completion of the IPO;
- The contractor is an experienced and credible civils group;
- Expected to connect end 2024.













### **ISSUES AND SOLUTIONS**



### The previous failure of the Tolukuma Gold Mine was underpinned by four key factors - Tolu is addressing all four factors

High historical logistics costs – Access road construction



The Mine was 100% supported by helicopter logistics because the access road was never completed, despite being planned since the early 2000s. The access road will reduce logistics cost per ton transported by a factor of circa **30 times** 

Diesel generated power – Refurbish Hydro power station 🗸



Unreliable hydro power resulted in the mine running predominantly on diesel generated power which is notoriously high-cost power.

Insufficient mine development and Reserve flexibility - UG drilling & Reserves delineation 🗸

Previous operators failed to maintain Resource exploration and subsequent Reserve development to ensure operational flexibility.

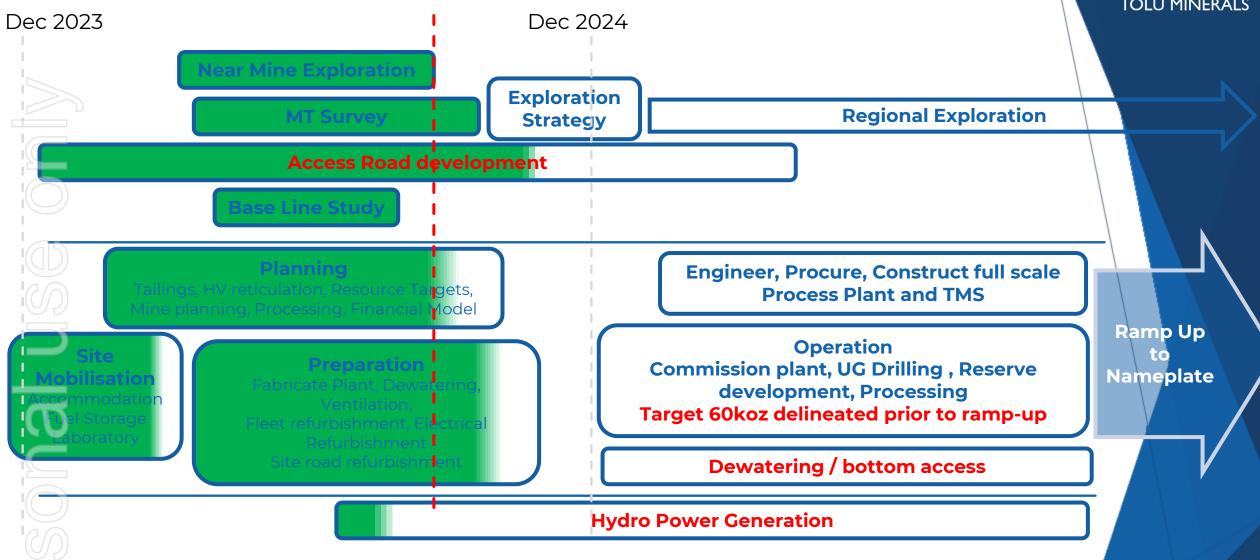
Pumping load – two phased dewatering 🗸



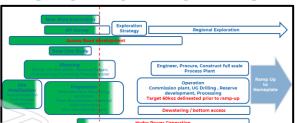
The planned bottom entrance was never completed resulting in a high cost and high-risk pumping load.

# **Tolukuma Development Strategy**





# **Tolukuma Development Strategy: Progress**



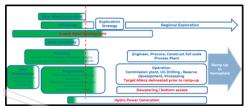
- Near mine exploration:
  - Phase 1 airborne MT: flying complete over Tolukuma regional, Ipi River & Mt Penck, completed c. 1000 km<sup>2</sup>
  - Secondary analysis underway 80%
  - Taula drill campaign completed
  - Drilling commenced on ML 104
  - Access road: first access at year end
- > Planning:
  - > Tailings concept: report completed 100%
  - > HV reticulation: detail design 100%
  - Resources targets for start-up 100%
  - Mine planning: conceptual complete 100%
  - Process design: optimisation decision complete 100%
  - Financial modelling: underway 70%





# **Tolukuma Development Strategy: Progress**





#### Site mobilisation:

- Accommodation: 95 beds, clinic completed, mess, office 80%
- > Fuel storage tank refurbishment completed, reticulation piping underway
- > Assay laboratory: commissioned, calibration underway 90%

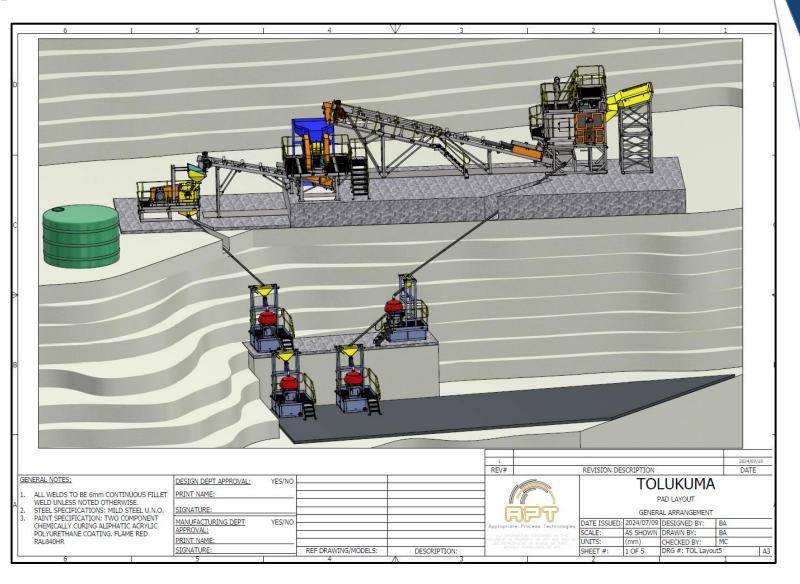
### Preparation

- Plant fabrication complete, delivering to site
- Dewatering: 80% drawdown achieved to Phase 1 target level
- Ventilation: survey completed, procurement underway
- > Fleet refurbishment
  - Assessment complete 100%
  - Spares procurement underway
- Orders placed for additional primary and secondary equipment.
- > Generators delivered to site and orders placed for major electrical components
- Site road refurbishment: last section of hydro road to access power station outstanding 90%



# **Gold Plant Optimisation**

- Low opex start up
- Modular and expandible
- Recoveryenhancementopportunities





### **Tolukuma Gold Mine – Gold Plant**



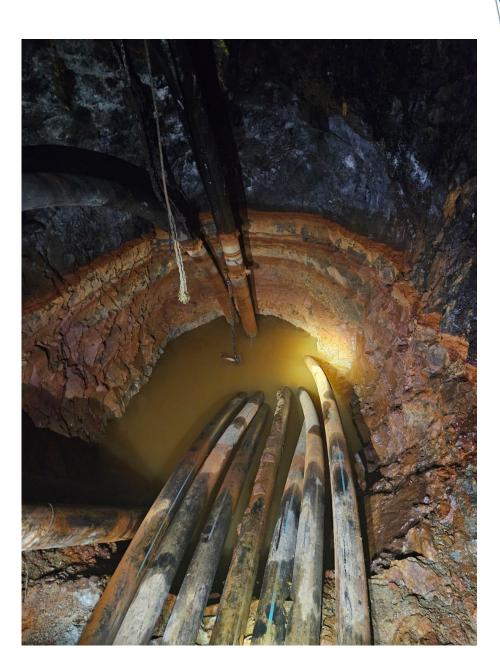






### **Dewatering**

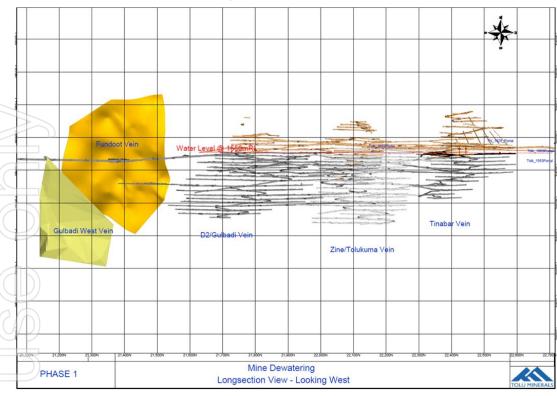
- Early start through innovative siphoning
- Reduced the pumping load (and cost)by an estimated +30%
- Pumping now commissioned to accelerate dewatering
- Will extend siphoning system to maintain levels once the Phase 1 dewatering objective is met

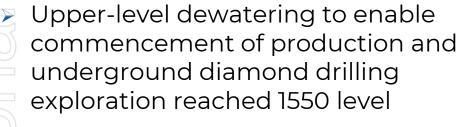






# **Dewatering**





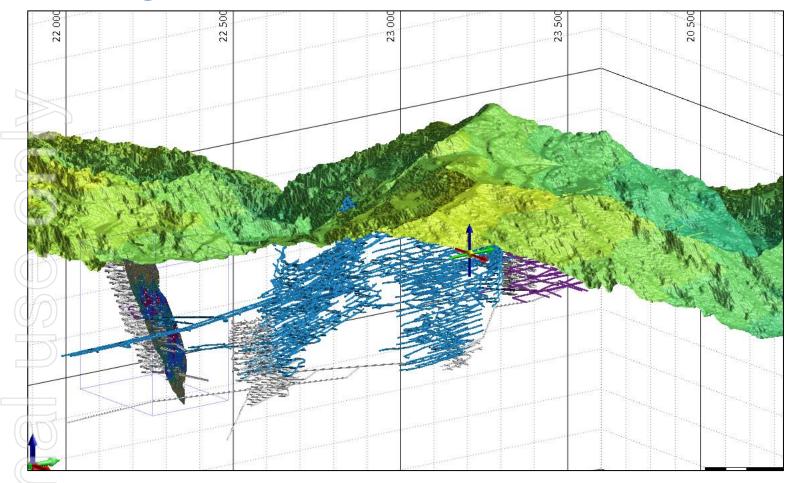
Pumps being relocated to final position for dewatering of Fundoot







# **Mining**

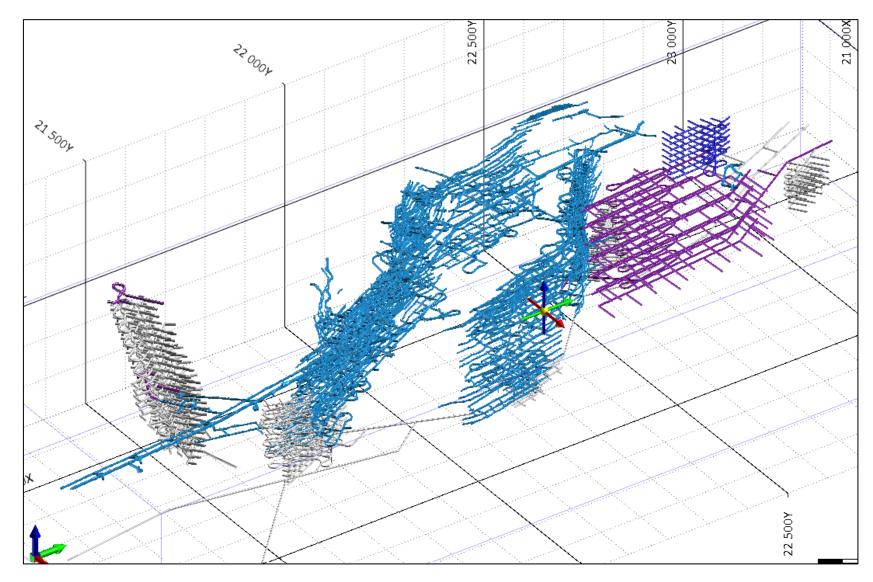


- Accessing upper workings
- Face and stockpile sampling completed
- Refurbishment of rockdrills underway
- Establishing crews
- Mobile equipment refurbishment underway, supplemented by new orders
- Ventilation survey completed
- First production Q4, 2024



# Mine planning – new workings shown

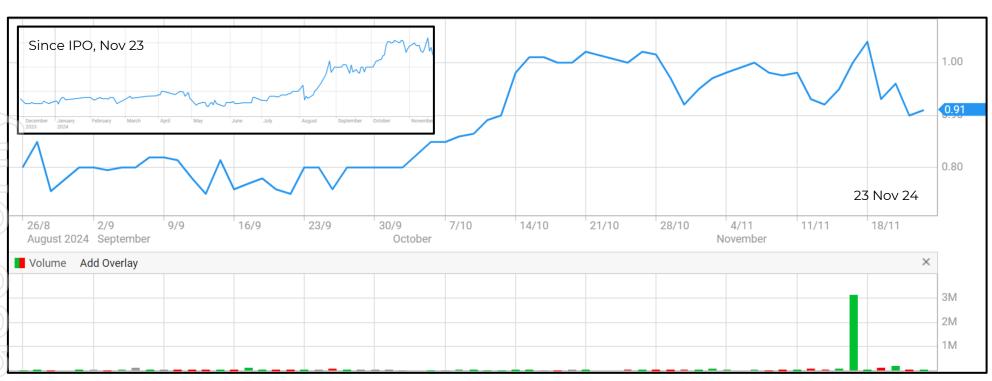




Measured ramp up to rebuild face inventory

### **ASX:TOK, OTCQX:TOLUF**





- > Tolu have raised circa AU\$67 million:
  - > AU\$11.3 pre-IPO @ AU\$0.37
  - > AU\$17.3 IPO @ AU\$0.50
    - AU\$2.2 stock component of road contract on completion milestones
  - > AU\$8.8 acceleration round raise @ AU\$0.50, completed 19 April 2024
  - AU\$26.7 accelerator round raise @AU\$0.80 completed 31 Oct 2024

- OTC quotation, which:
  - Broadens market exposure
  - Increases US participation
  - Broadens shareholder base
  - Increases company awareness and project progress

Financed in pursuit of a new Tier 1 gold mine

### **Contacts**



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It is a requirement of the ASX Listing Rules that the reporting of mineral resource estimates in Australia comply with the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code"). Investors outside Australia should note that while the mineral resource estimates of the Company in this Presentation comply with the JORC Code, they may not comply with the relevant guidelines in other countries. In particular, the estimates do not comply with Item 1300 of Regulation S-K, which governs disclosures of mineral reserves in registration statements filed with the SEC. Information contained in this document describing mineral deposits may not be comparable to similar information made public by companies subject to the reporting and disclosure requirements of US securities laws.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the market announcements referred above and further confirms that all material assumptions underpinning the production targets and all material assumptions and technical parameters underpinning the Ore Reserve and Mineral Resource statements contained in those market releases continue to apply and have not materially changed.

# TOLU MINERALS

#### **Competent Persons Statement**

The information in this presentation that relates to Exploration Results, Mineral Resources and Ore Reserves were last reported by the Company in compliance with the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the market announcements referred above and further confirms that all material assumptions underpinning the production targets and all material assumptions and technical parameters underpinning the Ore Reserve and Mineral Resource statements contained in those market releases continue to apply and have not materially changed.

The information in this document that relates to Exploration Results and Mineral Resources for Mt Penck and Tolukuma Regional is based on information compiled by Mr. Hutchison who is a Member of the Australian Institute of Geoscientists. Mr. Hutchison is an independent geologist and 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 information in this document that relates to Tolu Minerals Ltd Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr. Carlson who is a Registered Professional Geoscientist (RPGeo), a Member of the AusIMM and a Fellow of the Australian Institute of Geoscientists. Mr. Carlson is a Principal Geologist of AMC Consulting Pty Ltd, and 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 information in this document that relates to Exploration Targets for the Tolukuma project is based on information compiled by Mr. Peter Swiridiuk who is a Member of the Australian Institute of Geoscientists. Mr. Swiridiuk is an independent geologist and 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".

Any references to Tolu Minerals Limited exploration results should be read in conjunction with the competent person statements included in the ASX announcements referenced in this document as well as the Tolu Minerals Limited's other periodic and continuous disclosure announcements lodged with the ASX by Tolu Minerals Limited, which are available on Tolu Minerals Limited's website.

#### **Authorisation**

This presentation was authorised by Iain Macpherson, Managing Director and CEO of Tolu Minerals Limited