# AUSTRALIA MINERALS REALISE THE OPPORTUNITY

# Resourcing tomorrow with Australia's minerals







Australian Government

Geoscience Australia

Japan—Australia Mineral Resources Investment Seminar | 27 Sep 2024 | #AustraliaMinerals

### **Geoscience** Australia



#### Our impacts



Managing Australia's marine jurisdictions



Building Australia's resources wealth

Supporting Australia's community safety

Securing Australia's water resources



**Creating a location-**

enabled Australia



Enabling an informed Australia Ensuring a high performing organisation

# Australia Minerals

- Australia's eight geological surveys working together to attract investment into Australia's minerals sector
- Trade and investment specialists who can connect you with the right people and projects
- Building on Australia's reputation for successful mineral discovery and mining



# Australia Minerals – strong government support for resources



- Resourcing Australia's
   Prosperity
- Critical Minerals Research & Development Hub



- MinEx CRC National Drilling Initiative
- Sedimentary Copper Mineral Systems



- New Frontiers Exploration
   Program
- Critical Minerals and High-Tech Metals Activation Fund



- Resourcing the Territory
- Exploration Grants



- Queensland Government Australia
- Collaborative Exploration Initiative
- Collaborative Development Program
- Frontier Gas Exploration Grants
   Program
- Queensland Resources Industry
   Development Plan
  - Critical Minerals Strategy
- Critical Minerals Queensland Office



Department of Energy, Mines, Industry Regulation and Safety Geological Survey of Western Australia

- Exploration Incentive Scheme
- Geoscience Data
   Transformation Program
- WA Array

# Government

- Supporting Tasmania's Mining, Exploration and Quarrying Sector
- Exploration Drilling Grant Initiative
- Geoscience Initiative



- State of Discovery—minerals strategy
- Victorian initiatives & projects
- Developing Victoria's Critical Minerals Program



# Reducing Australia's greenhouse gas emissions to net zero by 2050



### AUSTRALIA MINERALS | GEOSCIENCE AUSTRALIA

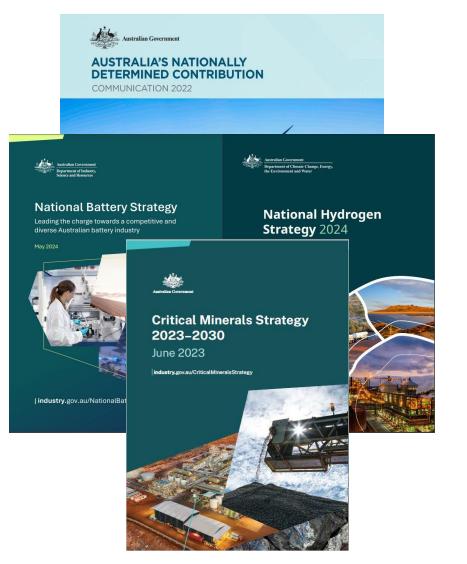
### Australia's targets:

- 43% reduction by 2030
- net zero emissions by 2050

### Japan's targets:

- 46% reduction by 2030
- net zero emissions by 2050

# The Future Made in Australia Act



"We recognise that for Australians to fully share in the rewards, Government needs to be prepared to use its size and strength and strategic capacity to absorb some of the risk.

"...we need to aim high, be bold and build big to match the size of the opportunity in front of us."

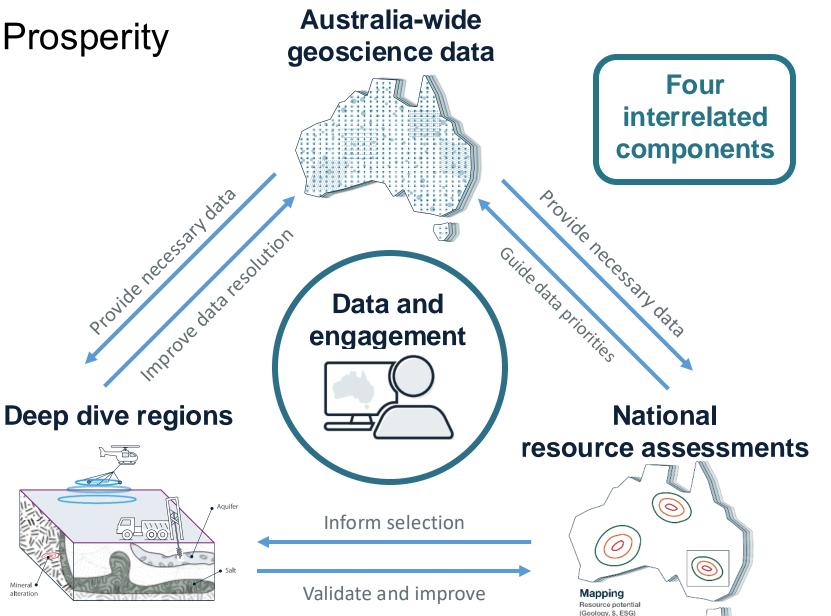
Prime Minister Albanese, 11 April 2024

\$566.1m over 10 years Resourcing Australia's Prosperity

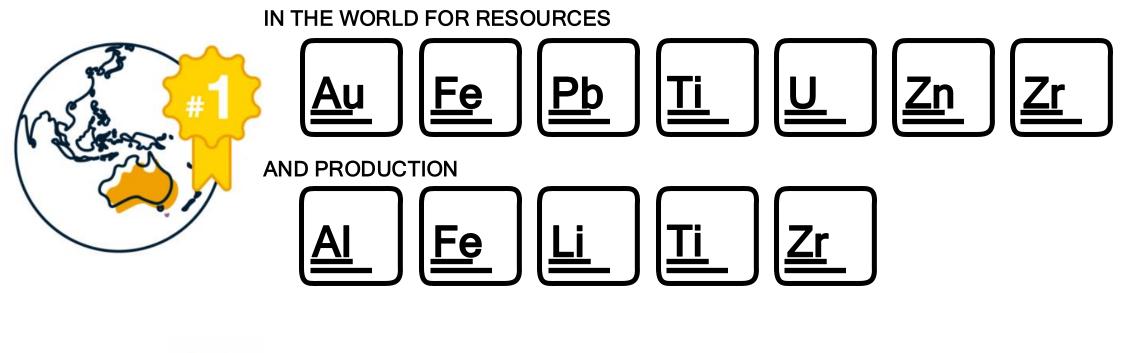
# Resourcing Australia's Prosperity

Key RAP deliverables by 2060:

- Resource potential maps for all 36 critical minerals and strategic materials
- 12 multi-commodity deep dive studies



A strong resources sector is important to Australia and our partners



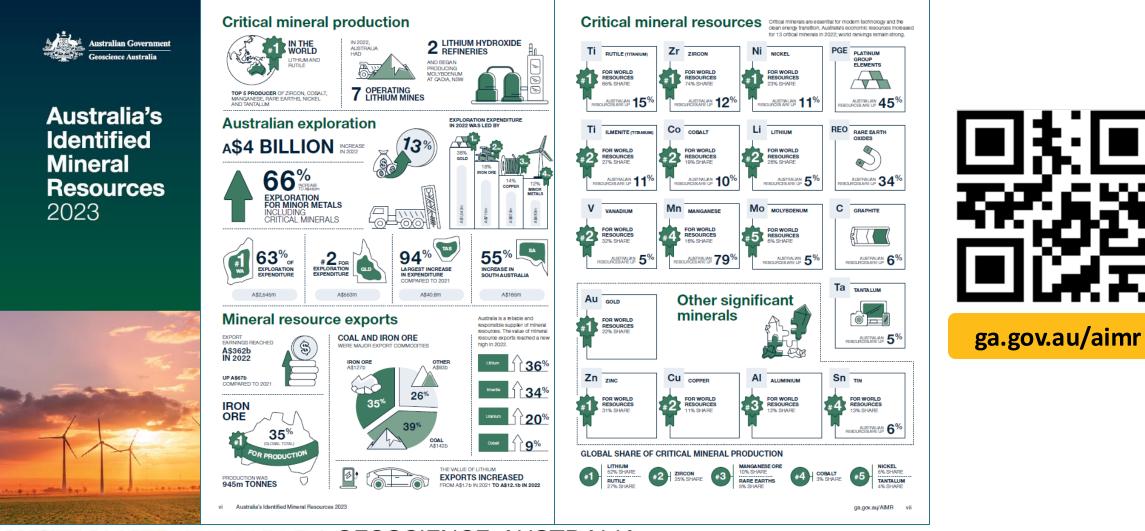




AUSTRALIA MINERALS | GEOSCIENCE AUSTRALIA

Figures from 2022-23 financial year

# Australia's Identified Critical Minerals and Strategic Materials

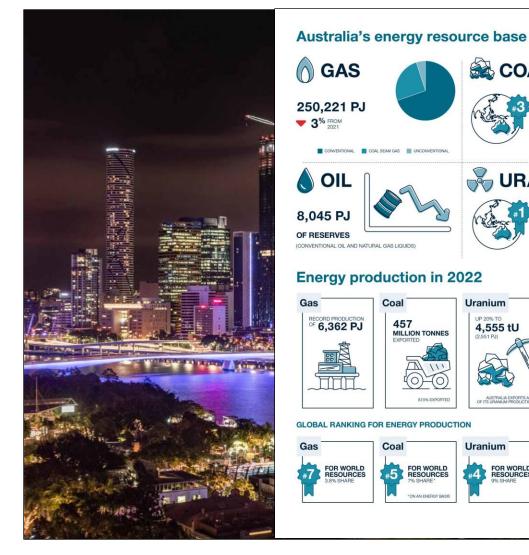


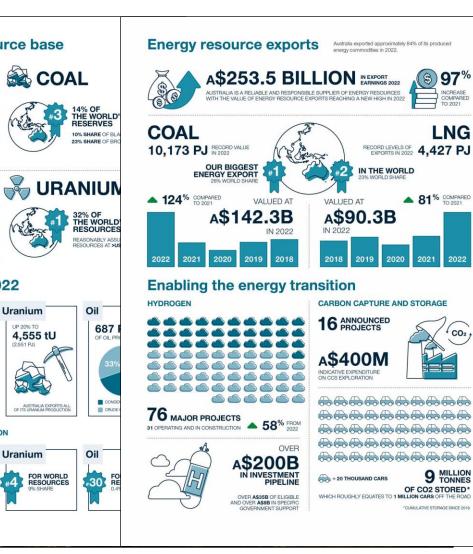
# Australia's Energy Commodity Resources 2024

875% EVDODT

FOR WORLD RESOURCES

ON AN ENERGY







97%

INCREASE

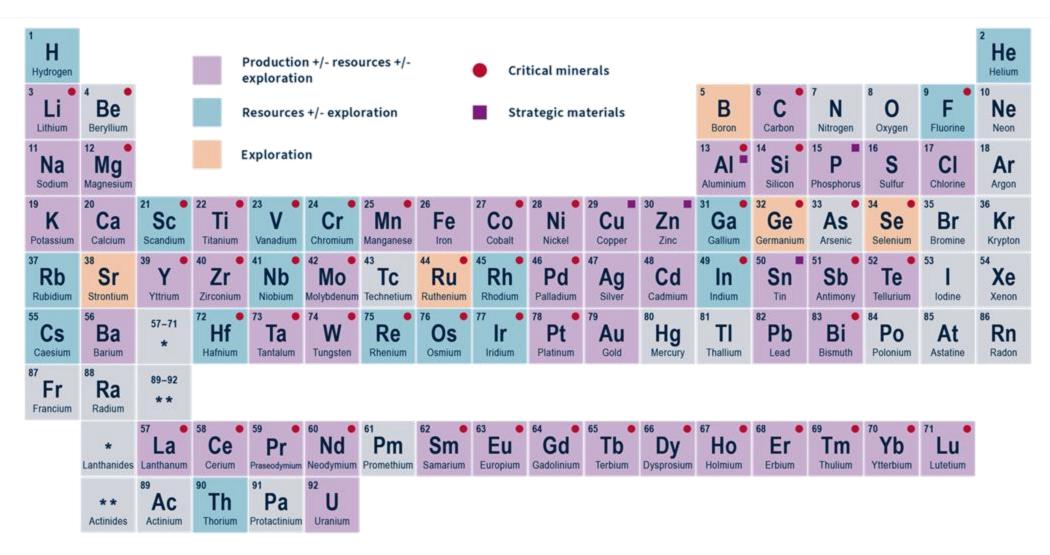
COMPARED TO 2021

2022

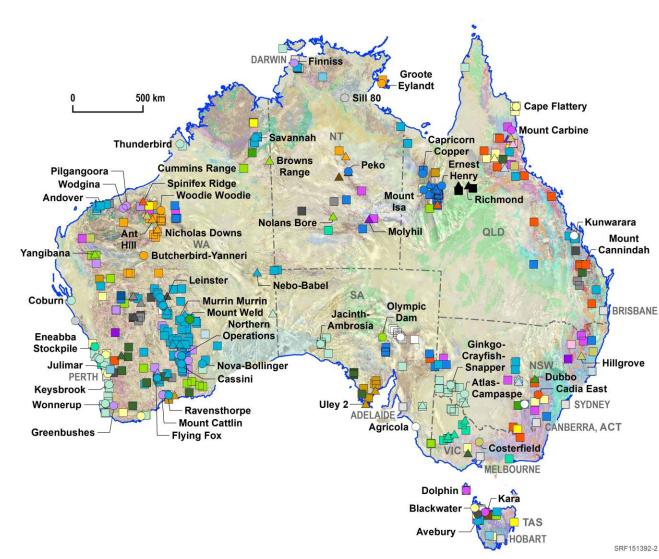
CO2

### ga.gov.au/aecr2024

# Australia: a wealth of resources



# Australia's critical mineral resources



### 477 deposits with a critical mineral resource

- 62 operating mines
- 32 under development
- 23 on care and maintenance
- 75% undeveloped

#### 80% of land mass covered by younger sediments

Commodity Type

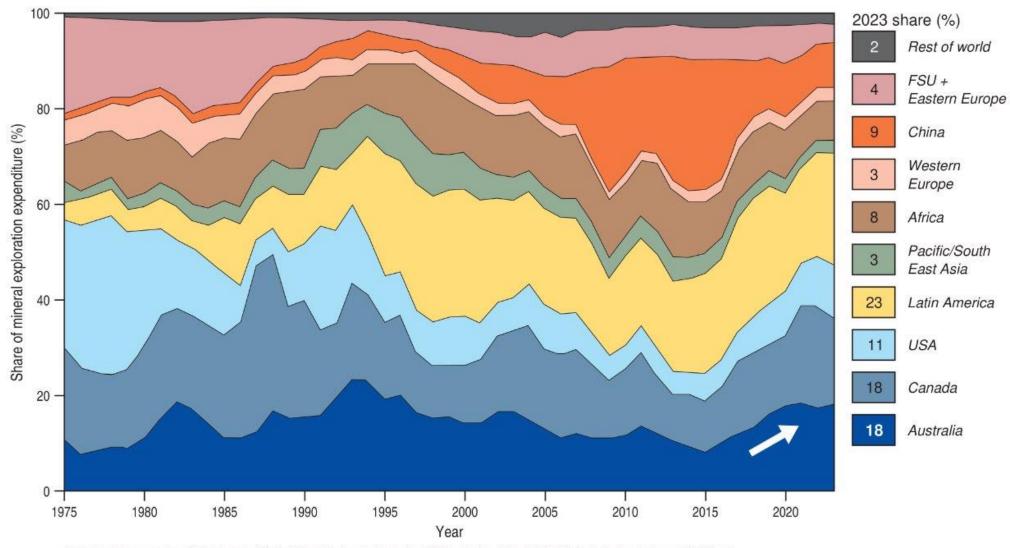
- Antimony
- Bismuth, +/- Cobalt, +/- Indium
- Chromium, +/- Cobalt, +/- Nickel, +/- PGE
- Cobalt
- Nickel, +/- Cobalt, +/- PGE
- Platinum Group Elements (PGE), +/- Cobalt, +/- Nickel
- Scandium, +/- Cobalt, +/- PGE, +/- Nickel
- Fluorine
- Graphite
- High Purity Alumina
- Indium
- Lithium, +/- Tantalum, +/- Niobium
- O Magnesium

Manganese

- Molybdenum, +/- Rhenium
   Heavy Mineral Sands (HMS) Titanium, Zirconium
- HMS Titanium, Zirconium, REE
- Rare Earth Elements (REE)
- REE, Zirconium, Niobium, +/- Hafnium, Lithium, Tantalum, Gallium
- O Silicon (High Purity Silica/Quartz)
- Tungsten
- Tungsten, Molybdenum
- O Titanium
- Titanium, Vanadium
- Vanadium
- Vanadium, Molybdenum

Australian Critical Minerals Map 2023

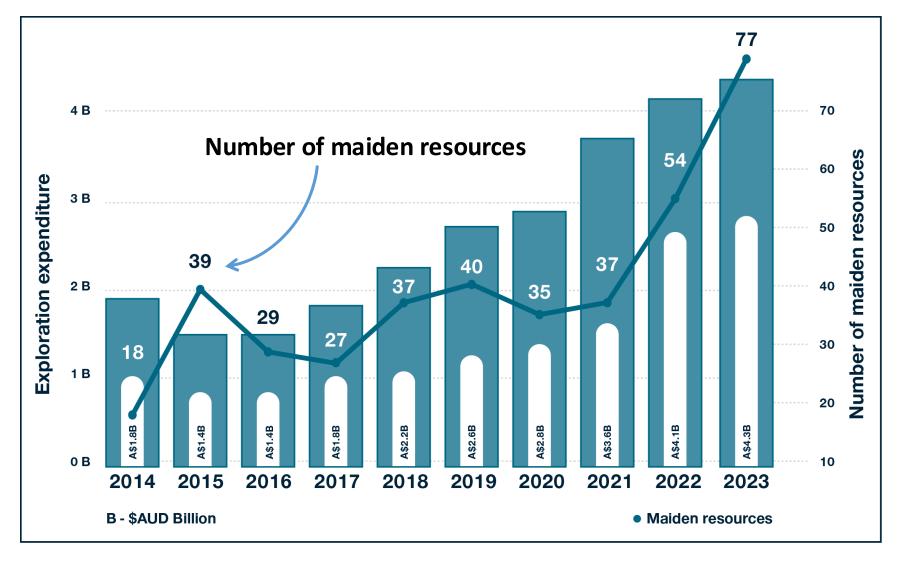
# Share of mineral exploration expenditure by region: 1975-2023



Note: Includes spend on Bulk Minerals "Rest of World" refers to Mongolia, Middle East and South West Asia (including India and Pakistan). Source: MinEx Consulting estimates © July 2024, based on data from ABS, NRCan, MLR (China), IAEA and S&P.

SRF174546-1

# Exploration expenditure and maiden resources 2014 – 2024



### In 2023:

- 77 new deposits
- 36 with critical minerals
- 21 with strategic materials



### AUSTRALIA MINERALS | GEOSCIENCE AUSTRALIA

From: Australian Mineral Exploration Review 2023

# Exploring for the Future



https://www.eftf.ga.gov.au

<complex-block>

https://portal.ga.gov.au/persona /eftf 2024 Showcase Recordings



https://www.eftf.ga.gov.au/ 2024-showcase/

# National resource potential assessments

- Multi-criteria resource potential assessments of Australia
- Economic mapping
- Green metals
- Mine waste

#### Tholeiitic magmatic

ineral potential

Dulfer et al. (2016)

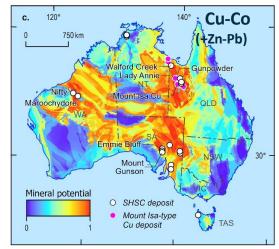
http://dx.doi.org/10.11636/Record.2016.001

Economic Fairways (H<sub>2</sub>, Cu, Ni, Au, Pb, Zn, P, CCS)

Ni-Cu

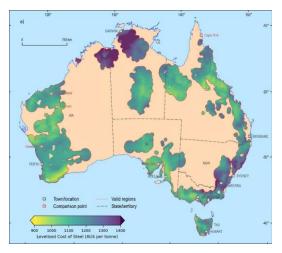
PGE



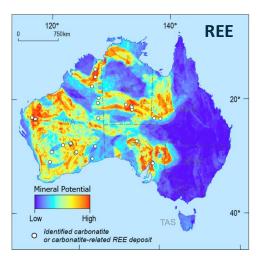


Cloutier et al. (2023) https://dx.doi.org/10.26186/147539

### Levelized cost of green steel



#### **Carbonatite-related**



Ford et al. (2023) https://dx.doi.org/10.26186/147865

#### Atlas of Australian Mine Waste



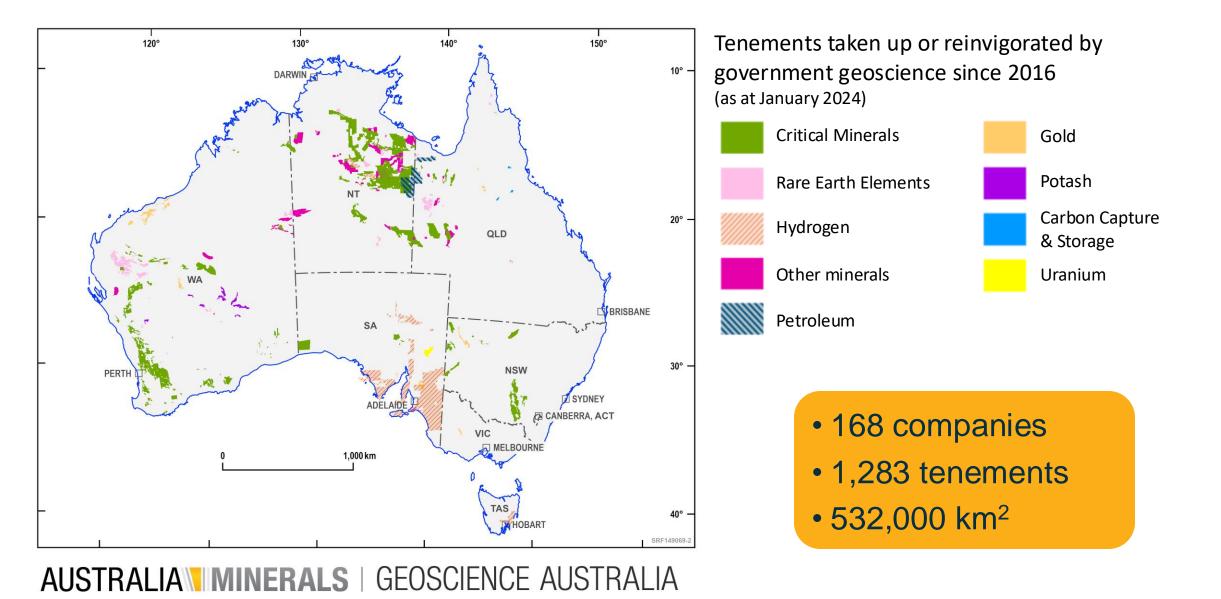
Wang et al. (2023) Thorne et al. (2023) https://doi.org/10.1016/j.ijhydene.2023.05.041 https://portal.ga.gov.au/persona/minewaste

Haynes et al. (2023)

# Australian Critical Minerals Research and Development Hub



# Impact of government geoscience on exploration in Australia since 2016



# Environment, Social, Governance (ESG) in Australia



- Commitment to net zero
- State & federal environmental laws
- Land and water management
- Community development
- Regional benefits
- Strong and mature legislation
- Health & safety laws and culture
- JORC Code
- Transparent taxation, regulated banks
- Standards development and traceability
- Circular economy and recycling

# Partnerships with First Nations peoples



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# Thank you

Marina Costelloe Branch Head Mineral Systems Geoscience Australia

Websites: www.australiaminerals.gov.au, ga.gov.au

Data Discovery Portal: https://portal.ga.gov.au

**Contacts:** mineral.promotions@ga.gov.au, rapinitiative@ga.gov.au



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Geoscience Australia

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# South Australia

Minerals of Power: Leveraging Copper, Uranium, and Critical Resources for a Clean Energy Future

> Dr. Bronwyn Camac Department for Energy and Mining Geological Survey of South Australia





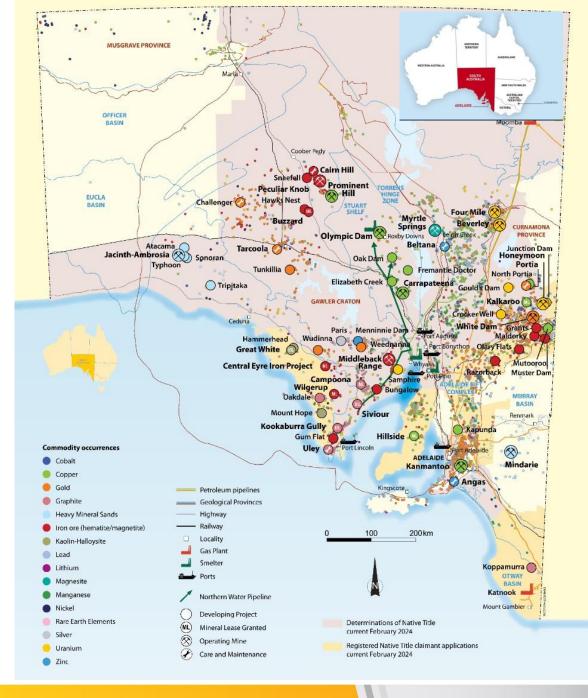
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# South Australia: building from strong foundations

Solar & Wind

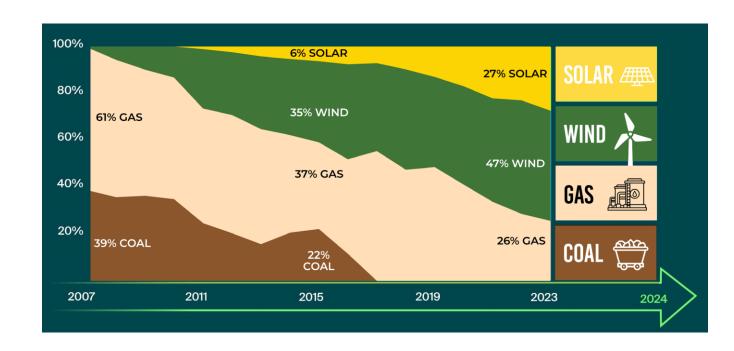
- Strategic and Critical Minerals
  - Smelters & Steelworks
- Infrastructure Roads / Energy
- Northern Water
- Port Facilities
  - Skilled Workforce

## AUSTRALIA MINERALS | SOUTH AUSTRALIA



# South Australia: a global leader in renewable energy

- Grown from 1% renewable energy generation to nearly 74% in just over 16 years
- 487MW of grid-scale solar generation capacity across 8 commercial facilities
- 2849MW in 24 operating wind facilities
- Network of grid scale batteries, firming supply
- Strong government relationships with network and transmission providers



### AUSTRALIA MINERALS | SOUTH AUSTRALIA

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# Northern Water Infrastructure Project

the framework for strategic development in South Australia

**3<sup>rd</sup> largest** seawater desalination plant in Australia (at capacity)

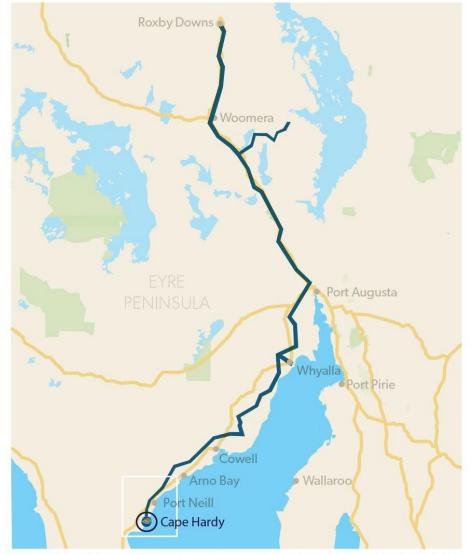
**Longest** fresh water supply pipeline in Australia

**Initial stage** ~\$5 billion capital investment

### **Project timeline**

### **OVERALL PROJECT TIMELINE PHASES**



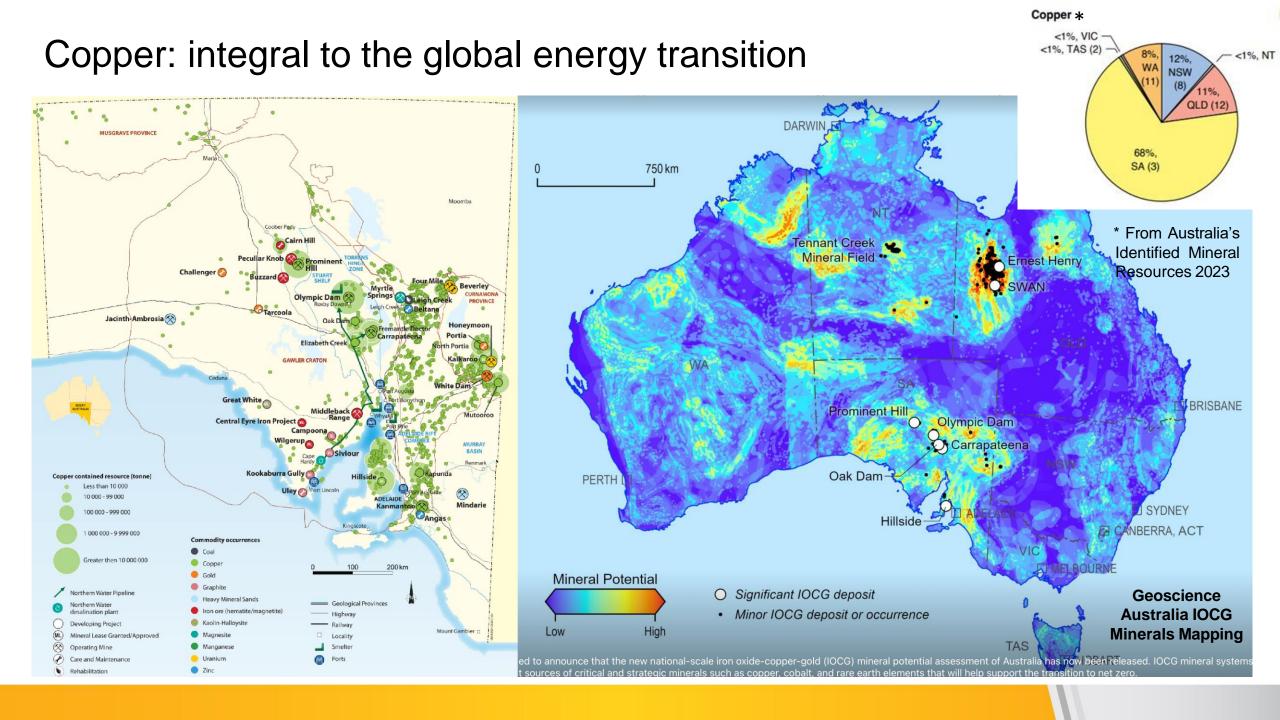


Information and data on this figure is an artist impression and is not to be used as a detailed design

Japan—Australia Mineral

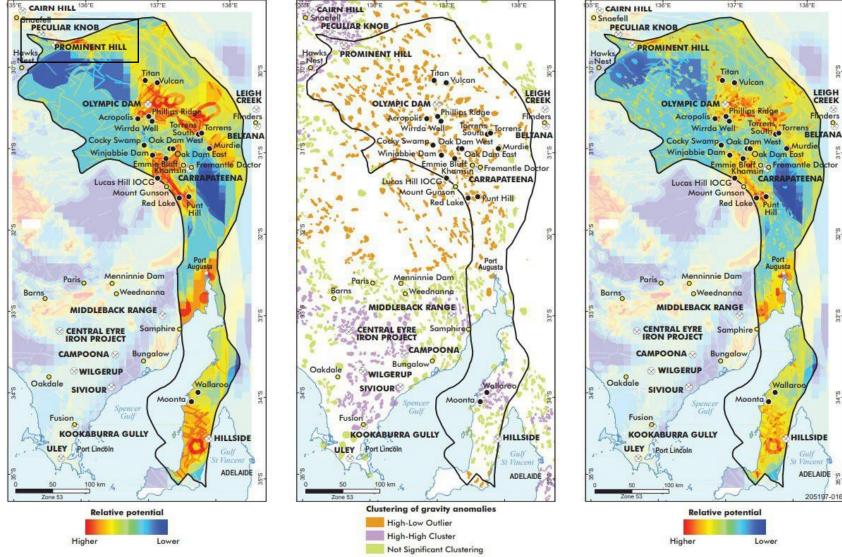
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# Future copper prospectivity: Olympic Cu-Au province along the Northern Water Supply

- Prospectivity analysis highlights the potential for undiscovered resources in the eastern Gawler Craton.
- Transforming key geological and geophysical criteria for IOCG deposit formation and preservation allows evidence layers to be summed, and relative potential to be mapped.
- Existing deposits are correctly identified by this methodology as well as un- tested targets with similar characteristics.



Olympic Domain 🛞 Major mine 🧕 Developing project 🍨 IOCG deposits/prospects

# Critical Minerals associated with polymetallic deposits & mine waste opportunities



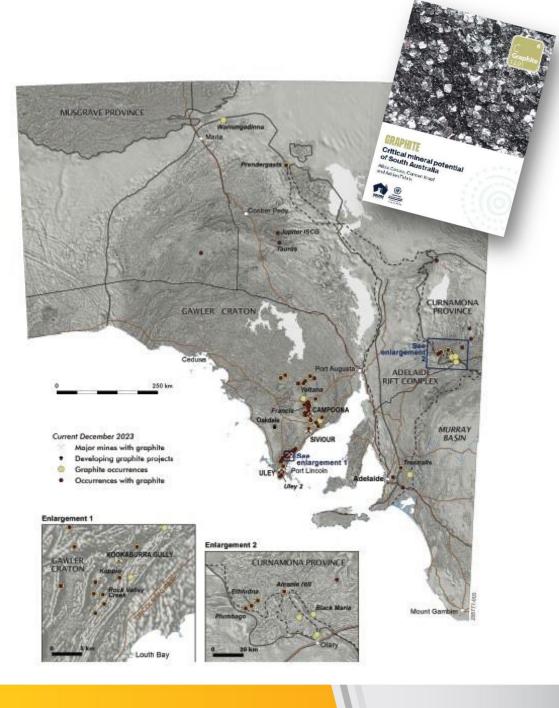
of South Australia's mine waste: Brukunga



# Graphite: essential for BAM production

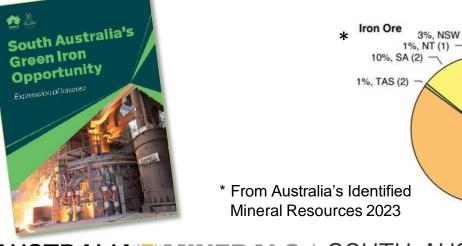
- 75 graphite occurrences recorded across South Australia
- 8 deposits; nearly all on the Eyre Peninsula
- The largest is the Siviour deposit 123.6 Mt @ 6.9% TGC (Total Graphitic Carbon) (Renascor Resources 2023).
- Uley 2 has 6.3 Mt @ 11.1% TGC at Uley 2 (Quantum Graphite 2022),
- Campoona Shaft 2.232 Mt @ 12.1% TGC (Uranium SA Limited 2021),
- Koppio with 2.08 Mt @ 10.47 % TGC; and
- Kookaburra Gully with 2.03 Mt @ 15.2% TGC
- A major exploration target at Yeltana is reported at 24.5 59 Mt @ 5.5 10.2% TGC (Alliance Resources Limited 2018). Other drill intersections include 15 m @ 20.7% TGC from 14 29 m at Francis and Rock Valley Creek where a grab sample of ore material was 9 12% flake graphite @ 80 88% TGC.
- Several occurrences are known from the Olary region of the Curnamona Province, commonly associated with the Saltbush Group of the Willyama Supergroup.

# AUSTRALIA MINERALS | SOUTH AUSTRALIA



# Magnetite: co-located iron ore and renewable energy resources

- Australia's second largest iron ore reserves
- 74% net renewable electricity grid
- Transmission lines covering 200,000km<sup>2</sup>
- Northern Water Supply
- Export pathways ports and supporting infrastructure

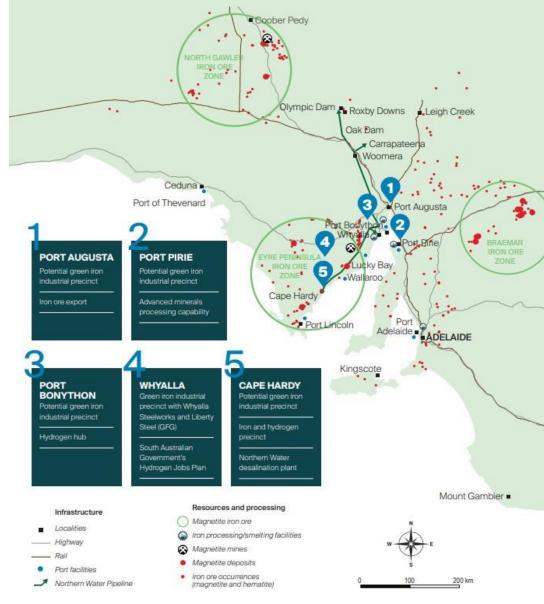


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85%,

WA (36)

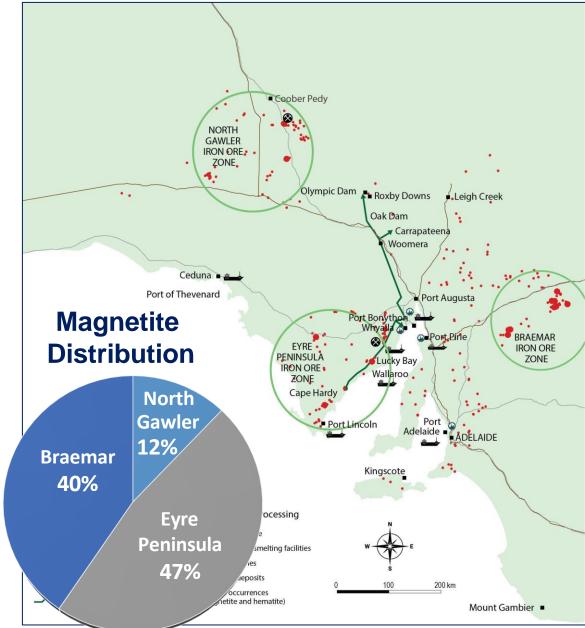
# South Australia's green iron and steel ecosystem



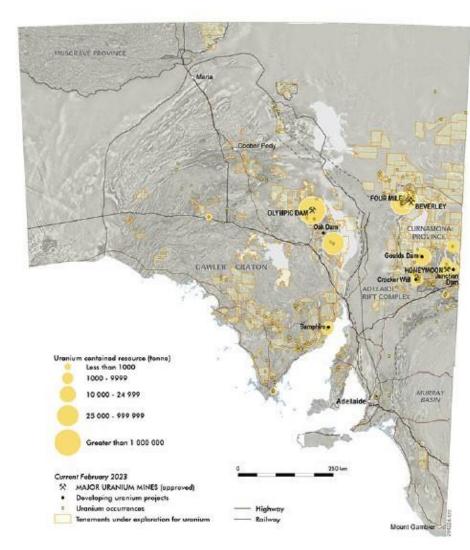
# South Australia's Magnetite Resources

- South Australia has **18.6 billion tonnes** of magnetite ore (JORC Resources)
  - 7.4 Bt of Economic Demonstrated Resources
- Total magnetite resources are up 15% from 2018
  - Largely attributed to Middleback Ranges, Razorback and Hawks Nest projects
- Capacity for significant growth of magnetite resources
  - Most deposits are open laterally and/or at depth
  - Many near mine/deposit targets are still largely un- tested

# AUSTRALIA MINERALS | SOUTH AUSTRALIA



# Uranium: Supplying the world's clean energy



### Mines and Projects

- Olympic Dam: BHP (1988)
- Beverley: Heathgate Resources (2001)
- Beverley North: Heathgate Resources (2010)
- Honeymoon: Boss Energy (2011 & 2023)
- Four-Mile: Quasar Resources (2014 & 2018)

### SA URANIUM PROJECTS

- Samphire: Alligator Energy
- Gould's Dam: Boss Energy
- Jasons: Boss Energy
- Junction Dam: Marmota Energy
- Crocker Well:Sinosteel
- SA URANIUM PROSPECTS
- Big Lake Oak Dam Acropolis





# Wirrda Well

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# **Strong Regulatory Foundations**

### **Best-in-class regulation**

One window to government approach.

World-first, dedicated hydrogen and renewables legislation – the Hydrogen and Renewable Energy Act 2023 to coordinate developments, including competitive land release to support gigawatt scale renewable energy.

Coupled with the *Mining Act* 1971, a clear licencing framework is in place for the concurrent development of renewable energy, hydrogen, mining and green iron projects.

### <u>Regulatory services | Energy & Mining (energymining.sa.gov.au)</u>

## One window to Government



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# Hand in Hand with our First Nations People

https://www.energymining.sa.gov.au/industry/minerals-and-mining/communities-and-land-access/native-title-and-aboriginal-land#legislative-framework

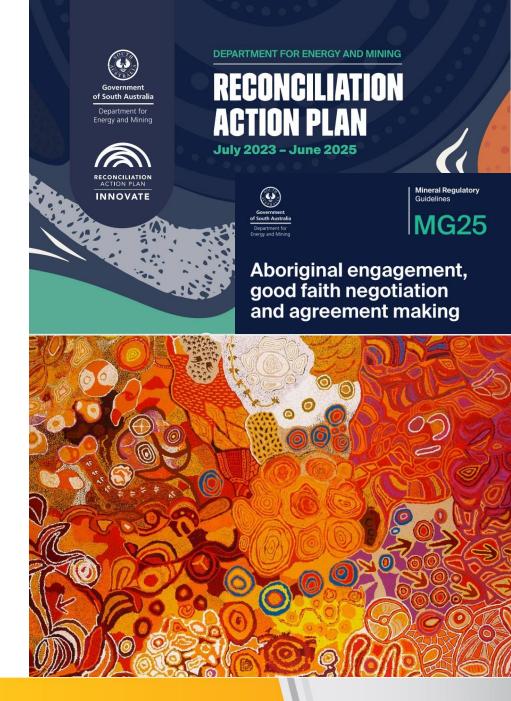
RELATIONSHIPS: Engaging with and building relationships with First Nations Peoples will strengthen our capacity to work collaboratively towards improved outcomes.

RESPECT: Recognising the contribution of First Nations Peoples to Australia will enable DEM to achieve more culturally inclusive outcomes and actively cultivate behaviours that enhance our workplace and guide the development and delivery of services.

OPPORTUNITIES: Creating opportunities for First Nations Peoples and increasing First Nations economic participation and equity.

GOVERNANCE: Providing strategic and operational resources to ensure the delivery of our RAP commitments, in accordance with our internal corporate governance standards and practices

# AUSTRALIA MINERALS | SOUTH AUSTRALIA



# SARIG





### SARIG core

Digital access and visual intelligence to SA's physical geoscience footprint

## **Digital Core Project**

- Core library "Scanning-to-digitise" program core photography and key datasets
- Virtual Digital Core Library accessible to global explorers
- Standard ingestion of data into SA Geodata (SA's Geoscience Database)
- Project consists of 6 Pillars Funding for 1, 2 and commence Pillar 3



#### AUSTRALIA MINERALS REALISE THE OPPORTUNITY

# Thank you

**Dr. Bronwyn Camac** Geological Survey South Australia Department for Energy and Mining





# AUSTRALIA MINERALS REALISE THE OPPORTUNITY

# Critical minerals projects and opportunities in the Northern Territory

Dorothy Close Director Regional Geoscience Northern Territory Geological Survey





### Northern Territory's trading relations and resources sector

- The Northern Territory is Australia's closest jurisdiction to SE Asia
- Japan is the Territory's largest export market: 10% of Japan's LNG sourced from Darwin
- The Northern Territory major producer of **manganese**, **bauxite**, **lead-zinc-silver** and **gold**
- Production of lithium currently suspended
- Near-term production planned for rare earths, phosphate and copper
- 18 projects in the approvals or financing process, primarily for **critical minerals**, **copper** and **gold**



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## Critical minerals in the Northern Territory

- The Northern Territory has mineral resources in 17 critical minerals as defined by key trading partners
- An overview of the Northern Territory's critical minerals resource inventory plus case studies on advanced projects are provided in the Critical Minerals in the Northern Territory (Japanese language version)





AUSTRALIA MINERALS | NORTHERN TERRITORY

# Pipeline of critical minerals projects: REEs

#### Advanced development

# Arafura Rare Earths - Nolans NdPr project

- World-class resource of magnet-feed rare earths (NdPr),
- On-site downstream processing to produce separated rare earths (including NdPr oxide)
- Binding offtakes with Siemens
   Gamesa, Hyundai Motor Co and Kia
- Debt funding now secured
- Approvals in place, targeting FID late 2024, enabling construction works completed in 2023



#### **Advanced exploration**

• Diverse opportunities, including clayhosted, unconformity-style and carbonatite-hosted mineralisation



#### AUSTRALIA MINERALS | NORTHERN TERRITORY

# Pipeline of critical minerals projects: Lithium

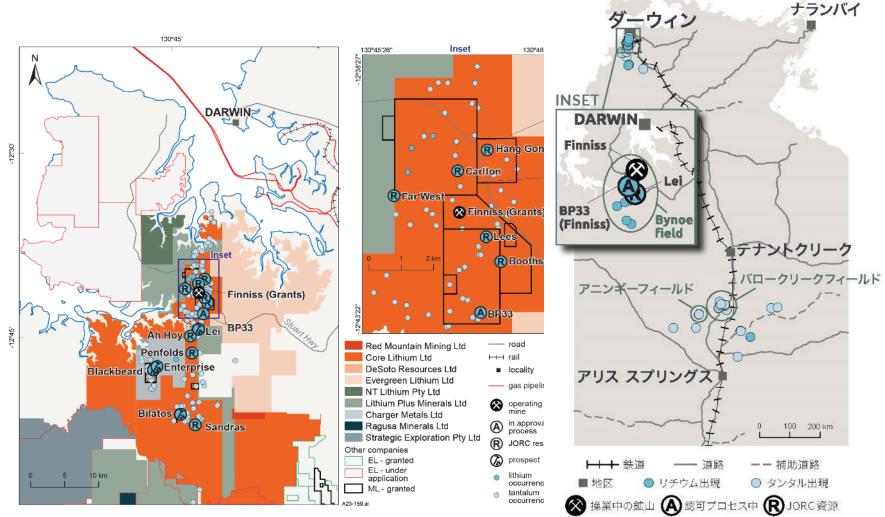
#### Advanced development

#### **Core Lithium- Finniss**

 Currently suspended mining operations – pending lithium price

#### **Advanced exploration**

 Ongoing exploration by various companies has increased total lithium resource in the Bynoe Field by 84% in 2023



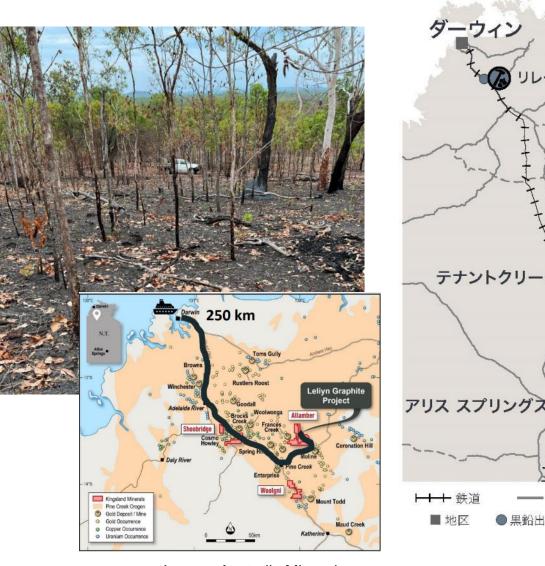
AUSTRALIA MINERALS | NORTHERN TERRITORY

# Pipeline of critical minerals projects: Graphite

#### **Advanced exploration**

# Leliyn – Australia's largest graphite deposit

- 20-kilometre-long graphitic schist
- Exploration Target 700-1100 Mt @ 7-8% TGC
- Flake size <150 microns, favourable for anode material
- Maiden Resource: 194.6 Mt @ 7.3% TGC (14.2 Mt contained graphite)
- Flotation test-work has produced a commercial grade concentrate >94% TGC



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ランバイ

補助道路

JORC資源

(R)

# Northern Territory Government support – minerals processing hub

#### Middle Arm Sustainable Development Precinct

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- Strategically located common user infrastructure and services
- Co-located with Santos Darwin LNG and INPEX Ichthys LNG processing facilities
- Focus on low emission hydrocarbons, hydrogen, advanced manufacturing, CCS and minerals processing
- Support the use of renewable energy
- Incorporate CCS from local/international sources; offshore geological storage
- Early stage scoping downstream processing of vanadium, copper, cobalt, phosphate





#### Northern Territory Government support – advancing resource development

#### Resourcing the Territory

- Northern Territory Geological Survey funded to undertake geoscience studies and collaboration to improve the understanding of the critical mineral potential
- Competitive exploration grant scheme available to industry to support and de-risk exploration
- For further information:

Resourcing the Territory website www.resourcingtheterritory.nt.gov.au

**Geoscience data and products** <u>gemis.nt.gov.au</u> or email: <u>geoscience.info@nt.gov.au</u>

Geoscience and titles web mapping strike.nt.gov.au



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#### AUSTRALIA MINERALS REALISE THE OPPORTUNITY

# Thank you

Dorothy Close Director Regional Geoscience Northern Territory Geological Survey





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# Tasmania

Investment setting and opportunities

Dr Andrew McNeill Chief Government Geologist Mineral Resources Tasmania



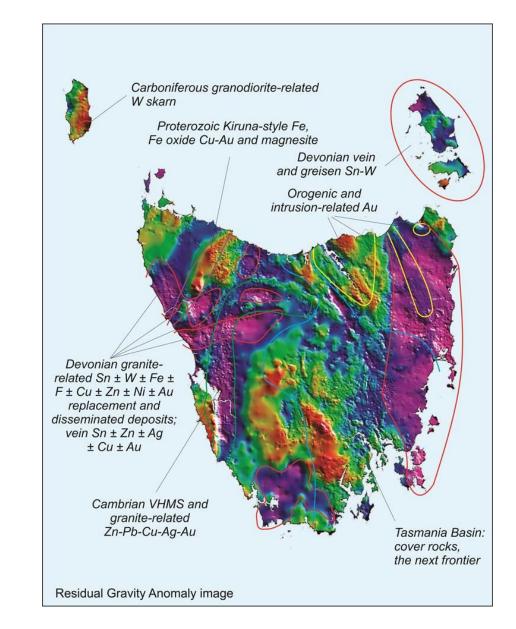


# Why Tasmania?

#### **Mineral endowment**

Current **production** of, and projects for, diverse commodities:

- Cu, Zn, Pb, Sb
- Au, Ag
- Sn, W
- Ni, Co, Li
- REE
- Fe (magnetite, hematite), Mg
- AI (bauxite)
- Si (silica flour)
- Heavy mineral sands
- Coal, oil, geothermal, hydrogen
- Limestone, dolomite



# Setting - energy

- Currently net zero emissions (2013–2023)
- 100 percent self-sufficient in renewable energy
- Aiming for 200 percent renewable energy supply by 2040 (solar, wind, pumped-hydro)
- Green Hydrogen site works commenced on Abel Energy Project in Tamar Valley
- Natural Hydrogen: exploration licence applications lodged and close to grant; new areas to be released in October.
- Offshore Renewable Energy Zone proposed in Tasmanian waters



# Setting – Infrastructure

- Capacity upgrades to rail and ports—funded by government
- Marinus Link stage 1 (750 Mw) in approvals process.
- Marinus opens potential for energy and processing projects at Hampshire



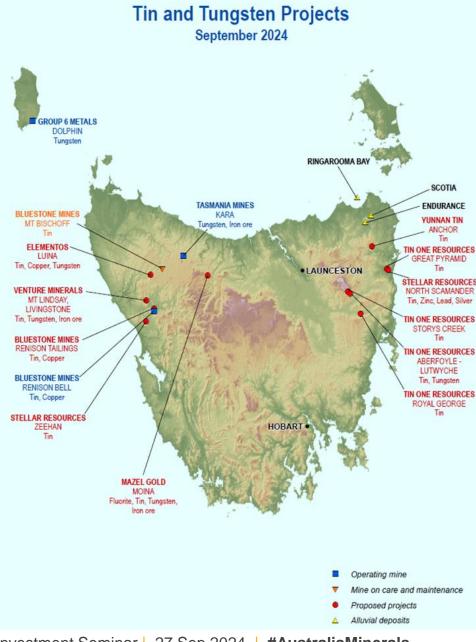
# Setting – First Nations

- Tasmania has a complex history with respect to first nations peoples.
- As a result of early colonisation actions, there is no recognised Native Title in Tasmania.
- Some land ownership has been transferred back to Tasmanian first nations people.
- Currently 1.64% of the state is Aboriginal Land, with majority being on Clarke and truwana / Cape Barren islands.
- The Government is working on further land returns.
- Once land is under Aboriginal ownership, approvals must be provided by the Aboriginal Land Council prior to the grant of mineral tenements.
- As part of tenement processes, Mineral Resources Tasmania seek input from Aboriginal Heritage Tasmania to ensure that Aboriginal heritage items are identified and appropriately managed.

## Investment opportunities

#### Tin and tungsten

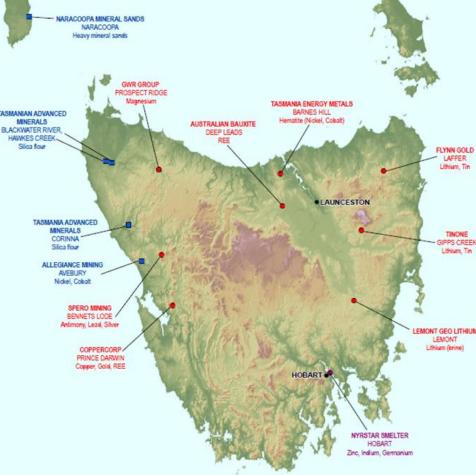
- 80% and 20% of EDR, respectively
- Defined resources:
  - 540,000 t contained Sn (35% at Renison)
  - $\circ$  183,000 t contained WO<sub>3</sub> (52% on King Island)
- Mining at Dolphin has commenced
- Opportunities:
  - North Scamander Polymetallic (Tarcoola Iron)
  - o (5 m @ 1.04% Sn, 495 g/t Ag, 5.2% Zn, 7.1% Pb)
  - Great Pyramid (TinOne): 8.9 Mt @ 0.17% Sn
  - Downstream processing (W)
  - Secondary prospectivity



# Investment opportunities Other critical minerals

- Lithium in brine new exploration target for state
  - Based on previously defined geothermal anomalies/resources
  - Drilling to commence in November 2024
- Lithium in mica (Zinnwaldite) in greisens
  - Recognised in 2022
  - First round drilling completed
- Antimony in Jamesonite veins
  - Bennetts lode drilling completed but no JORC resour
  - Intersections to 4.9 m @ 10.5% Sb, 13.8% Pb, 1,010 g/t Ag
  - Mining Lease application permitting in progress
  - Likely to be small resource(s)

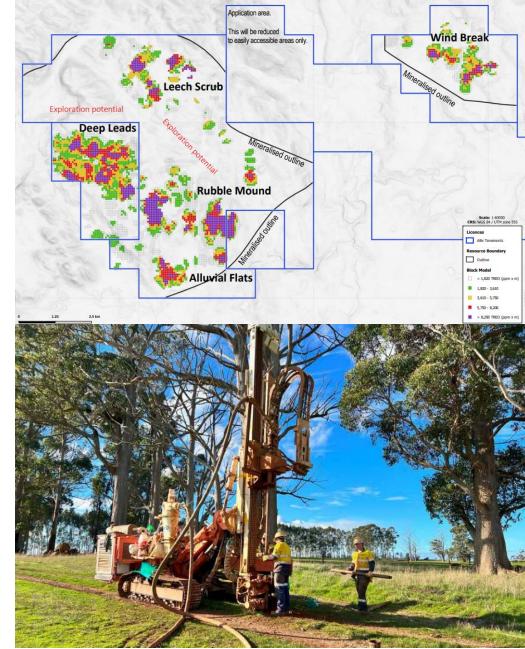




#### Investment opportunities

#### **Rare earth elements**

- Ionic adsorption Clay (IAC) type
- Associated with bauxite on Jurassic dolerite
- Drilling program in northern Tasmania by ABx (with Government co-funding)
- 56.4 Mt inferred, Indicated, and measured resource
- 1,010 ppm TREO; Low U and Th (6.2 & 1.8 ppm)
- Initial test work indicates good recovery by leaching
- Drilling ongoing



# Summary

- Diverse mineralisation with long-life (>100 years) mining operations
- 100 percent self-sufficient in renewable energy
- Aiming for 200 percent renewable energy supply by 2040
- Products of mining and mineral processing constitute >60 per cent of mercantile exports
- Highly supportive government with policies and legislation to reduce sovereign risk
- High quality, freely available geoscience data sets to de-risk exploration
- Battery and new technology minerals including tin, tungsten, antimony, and REE, and potentially Lithium

## For further information



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#### **Mineral Resources Tasmania team**

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+61 3 6165 4800

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# Thank you

**Dr. Andrew McNeill** Chief Government Geologist Mineral Resources Tasmania





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# **The Critical Mineral Powerhouse**

Current state and potential in Western Australia

Dr Charlotte Hall General Manager Investment Department of Energy, Mines, Industry Regulation and Safety





Department of Mines, Industry Regulation and Safety

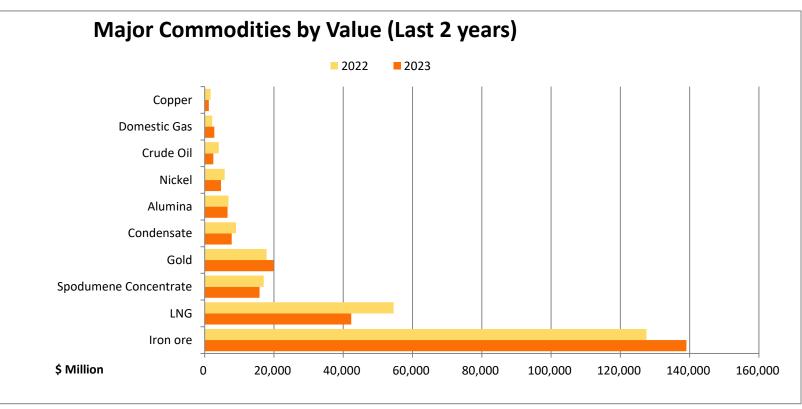
# Western Australia's mineral production

2023 Key highlights✓\$192B in sales

✓ Iron ore: 860M Mt
 2<sup>nd</sup> highest year

Spodumene con:
 3.3M Mt
 Record year

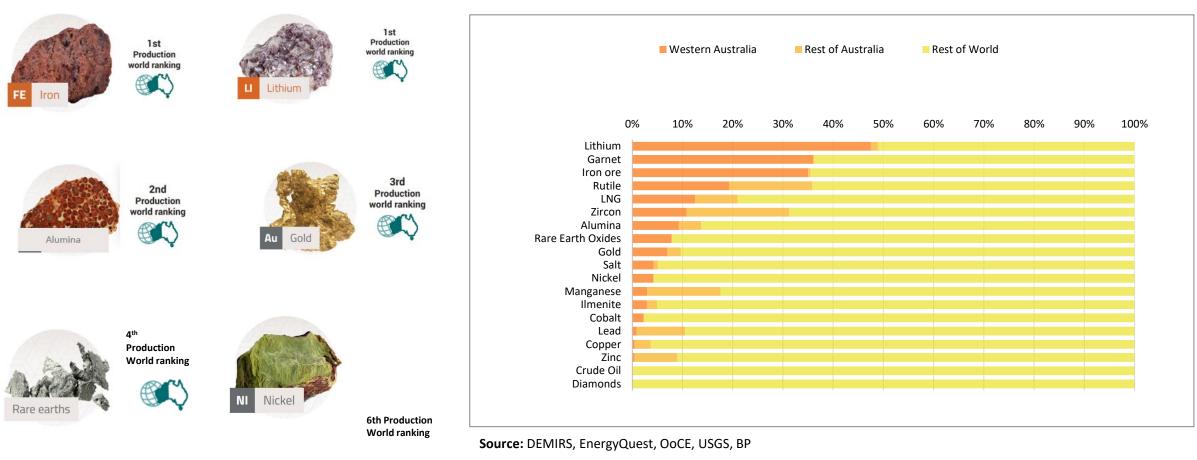
✓ Gold: 6.8M oz



**Source:** DEMIRS, EnergyQuest, Woodside, Santos

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# Western Australia Global production share 2023





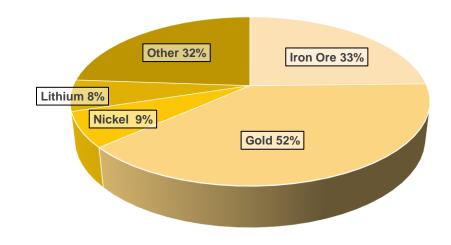
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# Principal projects in Western Australia 2022-23

134 mining projects 15 major processing Operations

- ✓ Bauxite to alumina
- Ni con to matte, powder, briquette and sulphate
- ✓ Rutile to TiO2 pigment
- ✓ Zircon to fused zirconia
- ✓ Silica sand to silica metal
- ✓ Spodumene to LiOH

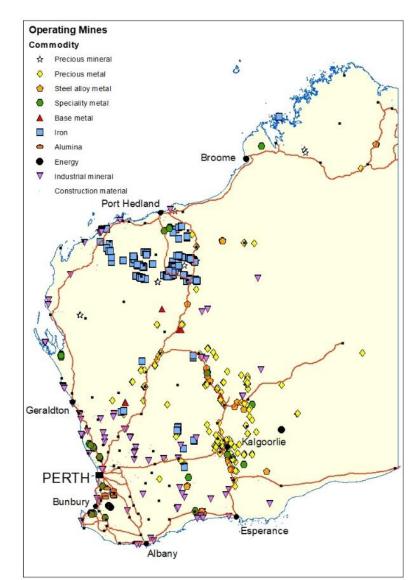
19 principal petroleum projects



High value export oriented mining projects

# Augrean and the second and the secon

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1 H Hydrogen		N	INE	RALI	RESO	URC	E PO	ΓΕΝΤ	IAL	N WI	ESTE	RN A	UST	RALI	Α		<sup>2</sup> He Helium
1,01 3 Lithium 6,94	H 4 Beryllium 9.01				М	ined cu	mineral arrently resourc					5 B Boron 10.81	6 Carbon 12.01	xv 7 N Nitrogen 14.01	XVI 8 0 0xygen 16.00	9 F Fluorine 19.00	10 Nen 20.18
Na Sodium 22.99	Magnesium 24.31		IV	v	VI	Cluding by-	vill	ct)	x	XI	XII	Aluminium 26.98	Silicon 28.09	Phosphorus 30.97	S Sulfur 32.06	Chlorine 35.45	Argon 39.95
Potassium 39.10	20 Calcium 40.08	21 Sc Scandium 44.96	22 <b>Ti</b> Titanium 47.88	23 V Vanadium 50.94	24 <b>Cr</b> Chromium 51.99	25 Mn Manganese 54.94	26 Fe Iron 55.85	27 Co Cobalt 58.93	28 Ni Nickel 58.69	29 Cu Copper 63.55	30 Zn Zinc 65.38	31 Gallium 69.72	32 Ge Germanium 72.63	33 As Arsenic 74.92	34 See Selenium 78.97	35 Br Bromine 79.90	36 <b>Kr</b> Krypton 84.80
37 Rb Rubidium 85.47	38 Strontium 87.62	39 Y Yttrium 88.91	40 Zr Zirconium 91.22	41 Niobium 92.91	42 Molybdenum 95.95	43 TC Technetium 98.91	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.91	46 Pd Palladium 106.42	47 Ag Silver 107.87	48 Cd Cadmium 112.41	49 In Indium 114.82	50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.6	53 Iodine 126.90	54 Xenon 131.29
55 CS Cesium 132.91	56 Ba Barium 137.33	57-71 Lanthanides	72 Hf Hafnium 178.49	74 Ta Tantalum 180.95	74 W Tungsten 183.85	75 <b>Re</b> Rhenium 186.21	76 OS Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.97	80 Hg Mercury 200.59	81 Tl Thallium 204.38	82 Pb Lead 207.20	83 Bi Bismuth 208.98	84 Polonium [208.98]	85 At Astatine 209.98	86 Rn Radon 222.02
87 Fr Francium 223.02	88 Ra Radium 226.03	89-103 Actinides	104 Retherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 HS Hassium [269]	109 Mt Meitnerium [278]	110 DS Darmstadtium [281]	111 Rg Roentgenium [280]	112 Copernicium [285]	113 Nh Nehonium [286]	114 Flerovium [289]	115 Mc Moscovium [289]	116 LV Livermorium [293]	117 TS Tennessine [294]	118 Og Oganesson [294]
		Lanth 138 89 Acti	anum Cer 8.91 14 NC 14 Nium Tho	rium Praesee 0.12 91 <b>h</b> rium Protac	a grant gr	mium 24 93 Nepti	Ip unium 94 Pluto	arium Euro 13 15 95 A Amer	pium 1.96 Gado 15 96 C Cu	Vinium 7.25 7 7 7 7 8 8 8 97 8 97 8 8 8 8 8 8 8 8 4 24	bium 8.93 Bk r.07 Bk C Califo 251 bodified from 6	2.50 164 99 <b>E</b> 1.08 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b>E</b> 164 <b></b>	nium Ert 4.93 16 54 einium 55	nium 7.26 Thu 16 101 Mende 25	Alium 8.93 Ytte 17 102 102 102 102 102 102 102 102 102 102	rbium Lut (3.06 17 2 10 103 103 103 103 103 103 103 103 103	encium 262]

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# Increasing Western Australia's Midstream Sector

#### Advanced critical mineral processing capabilities



Manufacturing battery chemicals and separated rare earth oxides in Western Australia

= \$9 billion invested since 2015

May 2024: Western Australia 2024-2030 Battery and Mineral Strategy Goals

- Destination of choice for mineral mining, processing and manufacturing
- Decarbonise global economies by supplying Critical Minerals
- Create job and positive outcomes for Aboriginal people

Japan—Australia Mineral

Resources Investment Seminar | 27 Sep 2024 | #AustraliaMinerals

## Midstream processing success stories & potential opportunities

#### Selected advanced projects\*



Rarex, Northen Minerals, Victory Metals

Global Lithium- Spodumene concentrate Pilbara Mining - Lithium Hydroxide project



Neometals - Ti-V mining project



Li

Antimony explorers progressing at pace

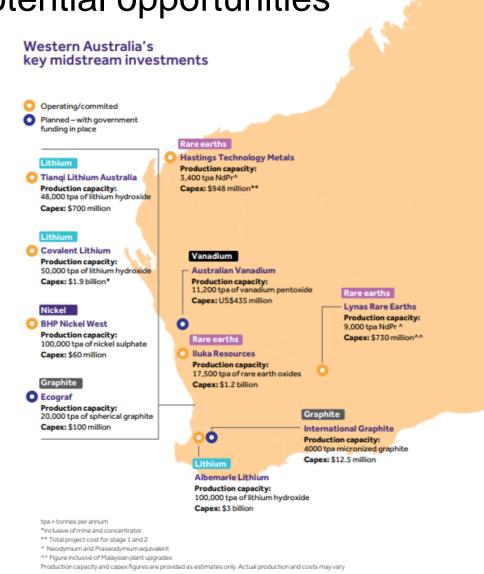
#### Project selection process - example

Step	Filter	Count: lithium	Count: cobalt
1. Identify project universe		79	197
2. Develop the long list	Project stage (resource/reserve defined but not reached FID)	72	39
3. Develop the short list	Offtake available on a 3-to-5-year time frame to first production and acceptable project economics	16	23
4. Develop the priority list	Evaluate the short list against technical, ownership, project and commercial factors, financials, ESG and regulatory	5	3

**Source:** Closing the gap between Australia's vast mineral endowment and its investable critical mineral projects, PwC 2024

\* Projects listed based on recent company disclosures. It does not constitute an endorsement by Geoscience Australia

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# Integration with Renewable Energy & Infrastructure

#### **Existing capacity**

15 operating wind farms with a capacity of more than 1GW

2 solar farms with a capacity of 192MW

Rooftop solar capacity of 1.35GW

#### New capacity

500MW - solar under construction

26MW – Australian Renewable Energy Hub

- 11GW 4,000km<sup>2</sup> offshore wind zone
- Albany M4 Wave Energy Demonstration Project

#### Infrastructure investments

CMAP –\$200M Critical Minerals Common User Facility Collie battery storage system – 500MW

\$374M port infrastructure funding



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## AUSTRALIA MINERALS | WESTERN AUSTRALIA

# Exploration, Innovation and Research Development

**Research & Innovation Initiatives** 

**Cooperative Research Centres** 







**Mineral Research Institute of Western Australia - MRIWA** 

Education programs, Ph.D. funding

Existing projects: DLE, electrometallurgy, use of tailings

More than 400 completed projects

#### Universities

Edith Cowan University – Mineral Recovery Research Centre

University of Western Australia – Centre for Exploration Targeting

Curtin University – WA School of Mines

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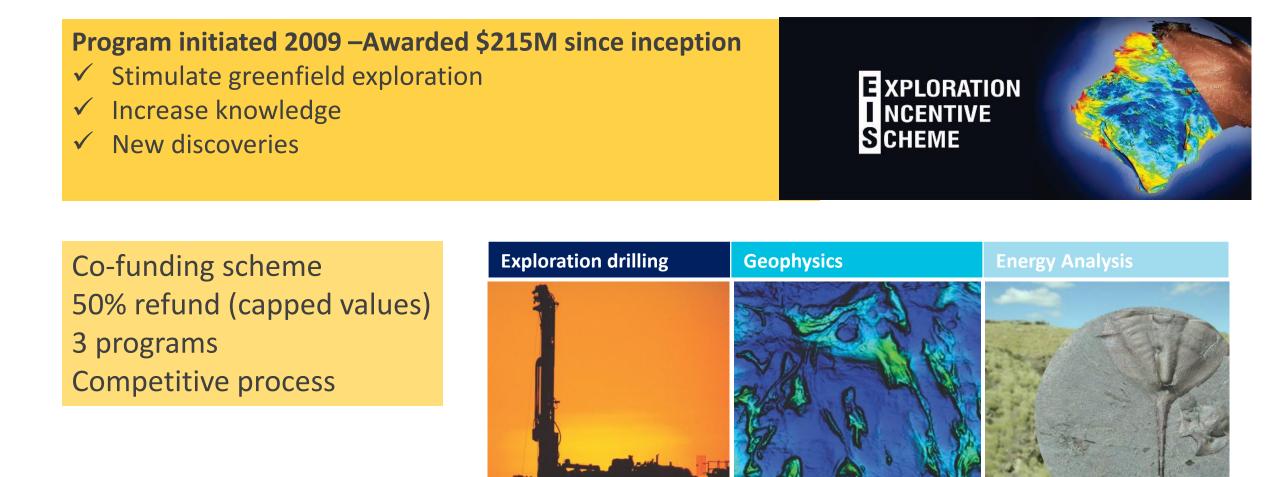








## Exploration, Innovation and Research Development



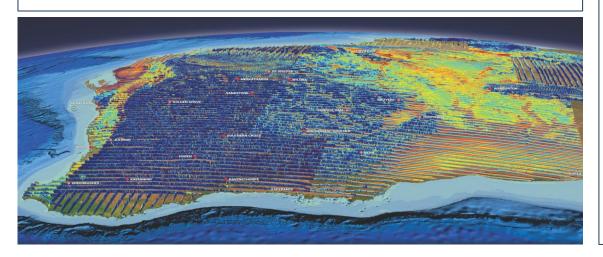
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## Government and industry collaboration

#### Feedback from industry is essential to develop an efficient government agencies

#### what we heard

- Delayed approvals
- Security of Tenure
- Better infrastructure
- More data



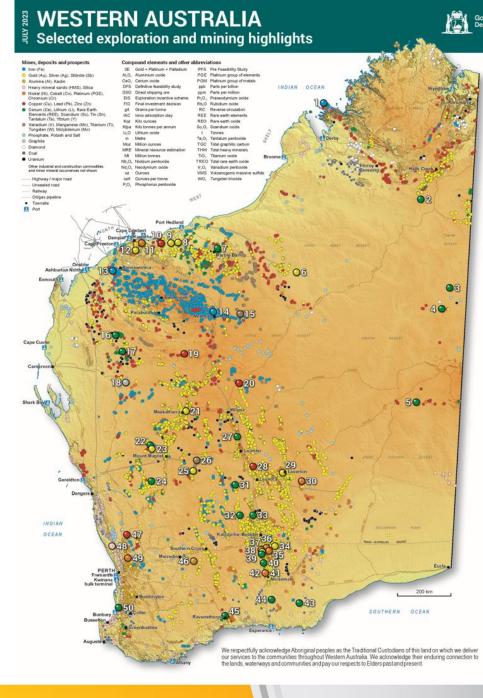
#### What we are doing

- Environmental Protection Act Amendment Bill 2024 introduced to Parliament
- Expedite mining approvals: Wait times for Program of Work applications cut by more than 50 per cent
- Draft mining legislation to ensure security of mining tenure and address key industry issues
- ✓ Major investments in port infrastructures
- ✓ Ongoing pre-competitive data sharing
- Significant funding support from the Federal government for critical mineral projects

#### AUSTRALIA MINERALS | WESTERN AUSTRALIA

## The Western Australia advantage

- ✓ Resource-rich state
- $\checkmark$  Our resource sector success is underpinned by
  - $\checkmark\,$  the provision of world class geoscience data
  - $\checkmark\,$  a robust regulatory and tenure system
  - $\checkmark\,$  low sovereign risk
  - ✓ a highly skilled workforce
  - ✓ An emerging mid-stream processing industry
  - ✓ Strong government support at both state and federal levels



#### AUSTRALIA MINERALS | WESTERN AUSTRALIA

# Questions?

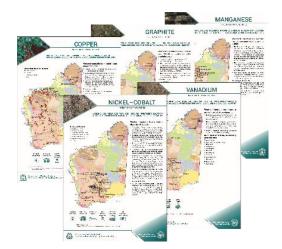
- Contact us:
  - <u>www.demirs.wa.gov.au</u>
  - Minerals.Investor@demirs.wa.gov.au
- Contact person:



- Dr. Charlotte Hall General Manager Investment
- <u>Charlotte.HALL@demirs.wa.gov.au</u>
- +61 8 9222 3410

#### Information on commodities





#### Legislation and compliance



Icons by Freepik https://www.freepik.com

#### AUSTRALIA MINERALS | WESTERN AUSTRALIA



#### Thank you for listening, please look us up!

Photo courtesy of Fortescue: Eliwana mine site

# AUSTRALIA MINERALS REALISE THE OPPORTUNITY

# Thank you

Dr Charlotte Hall General Manager Investment Department of Energy, Mines, Industry Regulation and Safety





Department of Mines, Industry Regulation and Safety

# AUSTRALIA MINERALS REALISE THE OPPORTUNITY

## **New South Wales**

### **Mining Investment Opportunities**

Tomohito Tanase I Associate Director Investment NSW - North Asia





Japan—Australia Mineral Resources Investment Seminar | 27 Sep 2024 | #AustraliaMinerals

### **NSW** Outline

- <u>State Capital: Sydney</u>
- Population: 8.5 million
- <u>Land: 800,000 km</u><sup>2</sup>
- <u>GST: approx. 700bil. A\$</u>
   \*More than 30% of AUS GDP
- Main Industry: Energy, Mining, Banking etc
- Annual Export : 96bil. AU\$
- <u>Annual Import : 164bil. AU\$</u>
   \*Japan is the largest trading partner for NSW.
- <u>The State's credit rating: AAA (Moody's)</u>



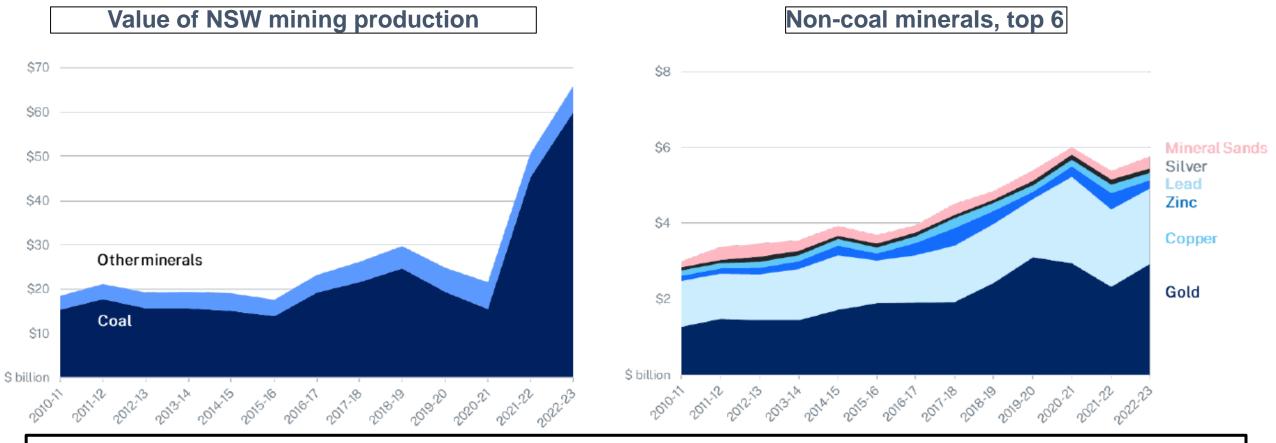
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#### Mining Industry in NSW

**\* 70% of export value in NSW is coal** 

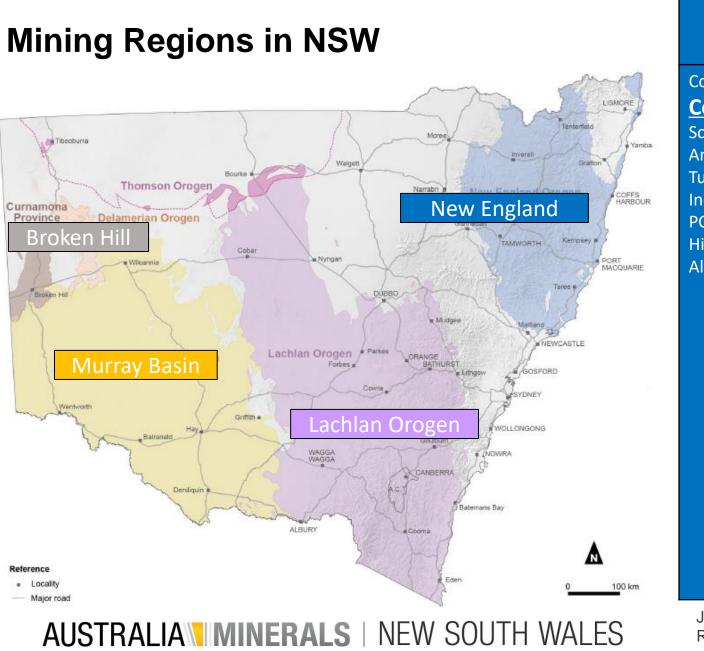
**\*** 50% of coal produced in NSW is exported to Japan



**Coal** has the major proportion of mining production value in NSW. NSW government has been promoting the growth of metal resources including critical minerals.

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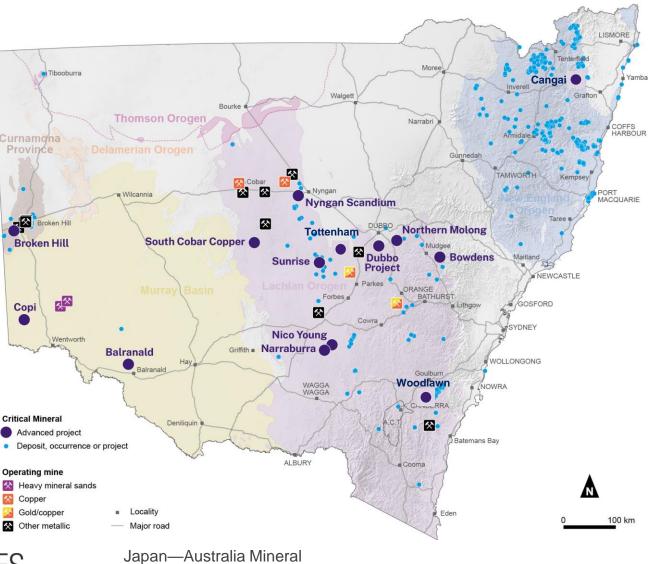
New	Lachlan	Murray	Broken
England	Orogen	Basin	Hill
Coal <u>Cobalt</u> Scandium Antimony Tungsten Indium PGE High-purity Alumina	Nickel Cobalt Rare Earth Copper Gold Silver Lead Zinc Molybdenum Niobium Hafnium Hafnium Bismuth Magnesium PGE Scandium Tantalum Tungsten Zirconium Alumina	Titanium Zirconium Rare Earth	Cobalt Tungsten PGE Silver Lead Zinc

Japan—Australia Mineral

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### Approved and developing critical minerals and high-tech metals projects

Project	Company	Stage	Minerals
Sunrise Battery Materials	Sunrise Energy Metals	Approved	<u>Co, Ni,</u> Sc
NiCo Young	Jervois Resources	Advanced Exploration	<u>Co, Ni</u>
Broken Hill Cobalt	Cobalt Blue	DFS	<u>Co</u>
Dubbo Project	Australian Strategic Materials	Approved	REE, Zr, Nb, Hf, Ta
Narraburra	Godolphin Resources	Advanced Exploration	REE
Balranald	Iluka Resources	Approved	Ti, Zr, <u>REE</u>
Сорі	RZ Resources	BFS	Ti, Zr, <u>REE</u>
Northern Molong	Alkane Resources	Advanced Exploration	<u>Cu</u> , Au
South Cobar Copper	Peel Mining	PFS	<u>Cu</u> , Au, Zn, Pb, Ag
Woodlawn	Develop Global	FS	<u>Cu</u> , Au, Zn, Pb, Ag
Tottenham Copper-Gold	Locksley Resources	Advanced Exploration	<u>Cu</u> , Au, Ag
Cangai Copper	Castillo Copper	Advanced Exploration	<u>Cu</u> , Au, Zn, Ag



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### **Project List**

\* Latest status of each project should be confirmed.

\* Please contact us if you are interested in any projects. We will confirm project details and investment/offtake opportunities.

Company	Project	Listed	Project Status	Project Stage	Au	Cu	Ni	Со	REE	Ag	Zn	Pb	Zr	Mineral Sands	Others	Resource	Mining Method
Sunrise Energy Metals	Sunrise Battery Materials Complex	SRL	Approved Development	Seeking finance & offtake			© 935kt	O 168kt							Pt 1,084koz Sc 24.7kt	177Mt	Open Cut
Jervois Global	NiCo Young	JRV	Advanced Exploration	Prepare for BFS			© 0.63%	O 0.05%								93.3Mt	Open Cut
Cobalt Blue	Broken Hill Cobalt	COB	New or expansion project in development	- Seeking finance & offtake - Planning DFS			⊖ 15.7kt	© 81.1kt							S 8,968kt	118Mt	Open Cut
Australian Strategic Materials	Dubbo	ASM	Approved Development	Seeking finance & offtake					© 0.14% Y2O3 0.74% TREO				O 1.89% (ZrO2)		0.04% (HfO2) 0.03% (Ta2O5) 0.44% (NbO5)	75.18Mt	Open Cut
Godolphin Resources	Narraburra REE	GRL	Advanced Exploration	Advanced Exploration					© 739ppm TREO							94.9Mt	-
Iluka Resources	Balranald Mineral Sands	ILU	Approved Development	DFS completed									© 11%	© HM 31.2% Ilmenite 63% Rutile 12%	Monozite Xenotime 0.9% (conbined)	54Mt	Open Cut



### **Project List**

OFFICIAL



\* Latest status of each project should be confirmed.

\* Please contact us if you are interested in any projects. We will confirm project details and investment/offtake opportunities.

Company	Project	Listed	Project Status	Project Stage	Au	Cu	Ni	Со	REE	Ag	Zn	Pb	Zr	Mineral Sands	Others	Resource	Mining Method
RZ Resources	Copi Mineral Sands	Private	New or expansion project in development	- Seeking finance & offtake - Proceeding Approvals - DFS completed									© 15% (%HM)	♥Ilmenite45%Rutile15%(%HM)	Monozite 1% Xenotime 0.1% Leucoxene 9% (%HM)	2,540Mt	Open cut wet dredge
Alkane Resources	Northern Molong Porphyry - Boda & Kaiser deposits	ALK	Advanced Exploration	Advanced Exploration	⊚ 0.52g/t AuEq	O 1.38Mt										894Mt	-
Peel Mining	South Cobar Copper: - Mallee Bull - Wirlong	PEX	Advanced Exploration	- Seeking finance & offtake - Advanced Exploration - Planning PFS	O 0.22g/t	© 1.85%				O 18g/t	O 0.10%	O 0.12%				10.64Mt	Underground
Develop Global	Woodlawn Copper-Zinc Mine	DVP	New or expansion project in development	- Care & Maintenance - Resume FS	O 0.5g/t	© 1.8%				O 46.0g/t	© 5.8%	O 2.1%				11.3Mt	UnderGround & Open cut
Locksley Resources Limited	Tottenham Copper-Gold	LKY	Advanced Exploration	Advanced Exploration	© 0.22g/t	© 0.72%				0 2g/t						9.86Mt	-
Castillo Copper	Cangai Copper	ccz	Advanced Exploration	Advanced Exploration	O 0.28g/t	© 2.45%				O 14.9g/t	O 0.6%				In -	4.6Mt	-

### NSW ambition in critical minerals



- The NSW Government is updating its Critical Minerals and High-Tech Metals Strategy in response to significant policy action nationally and internationally.
- New South Wales to be global supplier of sustained and secure critical minerals to strategic trade partners.
- The mining industry of New South Wales has been establishing long relationship with Japan in terms of resources such as coal. We aim to establish important relationship with Japan on critical minerals as well.

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### NSW Government support

- Mine development proposals must obtain approval under NSW legislation\* before a mining lease can be granted to mine for mineral and coal resources in NSW
- All mine-related impacts need to be considered economic, environmental, social, cultural
- Community consultation, including engagement with relevant Aboriginal/Indigenous groups is essential during the assessment process

NSW Government support to mine development proponents (includes, but not limited to)									
Dept. Planning, Housing & Infrastructure	NSW Resources (mines department)								
<ul> <li>Coordinates a whole-of-government (State, Commonwealth, Local) assessment of the impacts of mining projects</li> <li>Provides comprehensive and clear guidelines for proponents to improve their environmental assessments:</li> <li>Engagement Guidelines</li> <li>Cumulative Impact Assessment Guidelines</li> </ul>	<ul> <li>NSW Mining Concierge</li> <li>Inform exploration and mining companies of the various project approvals requirements and processes in NSW</li> <li>Facilitate connections with NSW Government agencies, and between all tiers of government in Australia to address water, transport, biodiversity, Native Title claims</li> </ul>								
Social Impact Assessment Guidelines	Assessment & Titles								
<ul> <li>How to engage with Indigenous/Aboriginal community groups and landowners' guidelines</li> </ul>	<ul> <li>Assesses applications for exploration and mining permits – advising proponents on requirements</li> <li>Specialised Native Title team – advises on land ownership and Right to Negotiate process</li> </ul>								
ine proposals may also require Commonwealth Government or Local Gove	ernment approvals (subject to project size, value, significance/importance								

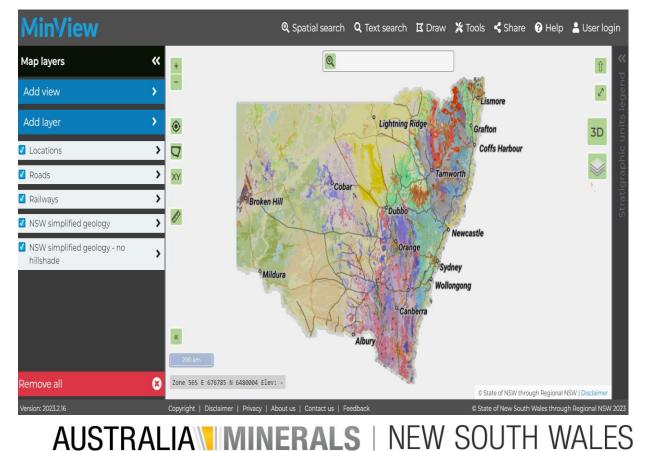
\* Mine proposals may also require Commonwealth Government or Local Government approvals (subject to project size, value, significance/importance) **AUSTRALIA MINERALS** | NEW SOUTH WALES

### **Promote Metal Resources Exploration**

### **MinView**

(https://minview.geoscience.nsw.gov.au/#/?lon=148.5&lat=-32.5&z=7&l=)

- ✓ Geoscientific data in NSW
- ✓ Infrastructure information (Road & Rail etc)

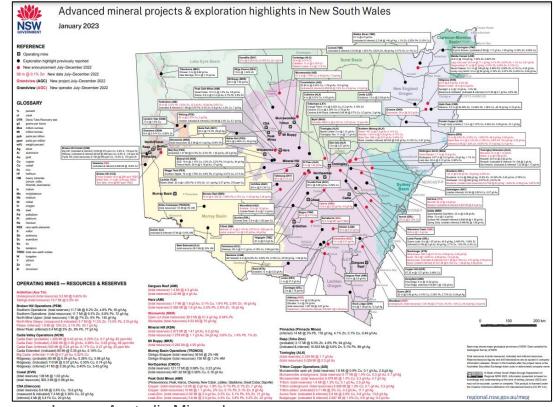


### DIGS

https://search.geoscience.nsw.gov.au/

### Geological document archives

#### ✓ Update every 6 month (minerals, quantity etc)



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### For further information

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### Thank you

Tomohito Tanase I Associate Director Investment NSW - North Asia





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