

AUSTRALIA MINERALS

REALISE THE OPPORTUNITY

Victoria's critical minerals opportunities: titanium, zirconium and REEs

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Victoria, Australia: Where in the world?



Victoria: a world-renowned jurisdiction

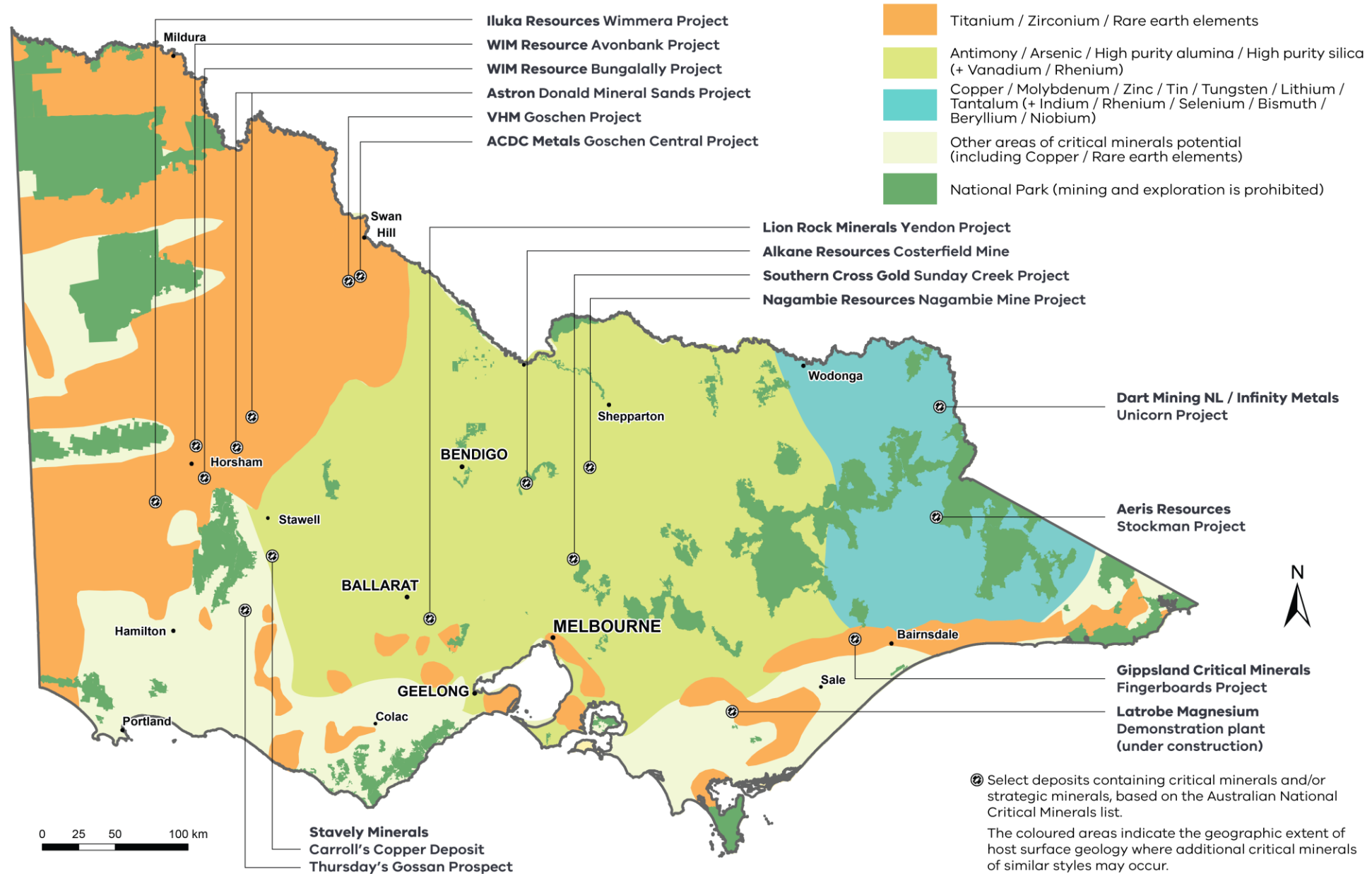
Capital: Melbourne ([one of world's most livable cities](#))

Population: 6.59 million (75% in Melbourne)

- [Highly skilled](#) residential workforce
- World class research institutions
- Thriving METS sector
- Excellent transport linkages
 - Widespread rail
 - [Melbourne Airport](#)
 - [Port of Melbourne](#)
- World-leading emission reduction targets
- Long gold mining history



Currently known critical minerals and strategic materials potential



Victorian mineral sands deposits

Northwest Victoria is home to the critical minerals required for electrification and decarbonisation.

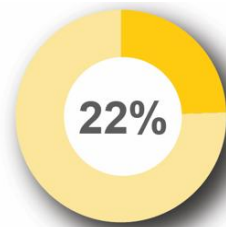
There are two different types of heavy mineral sands deposits:

- WIM style
- Strandline

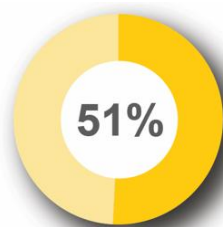
Multiple long-life deposits, billions of tonnes each

- Heavy Rare Earth Elements (e.g. dysprosium, terbium)
- Light Rare Earth Elements (e.g. neodymium, praseodymium)
- Titanium and zirconium

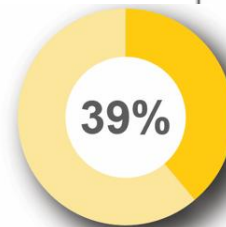
Victoria's share of Australia's mineral sands



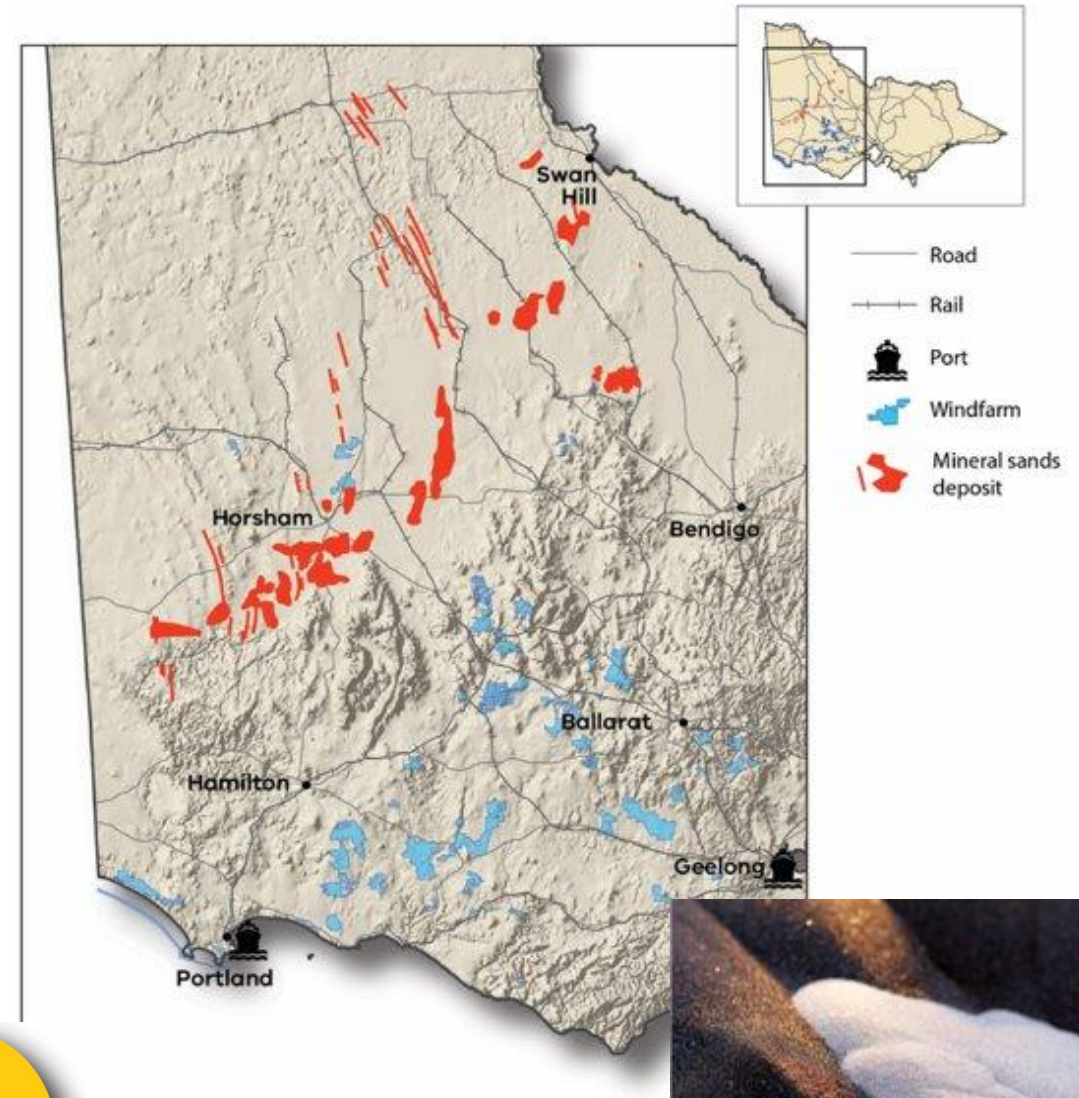
Ilmenite



Rutile



Zircon

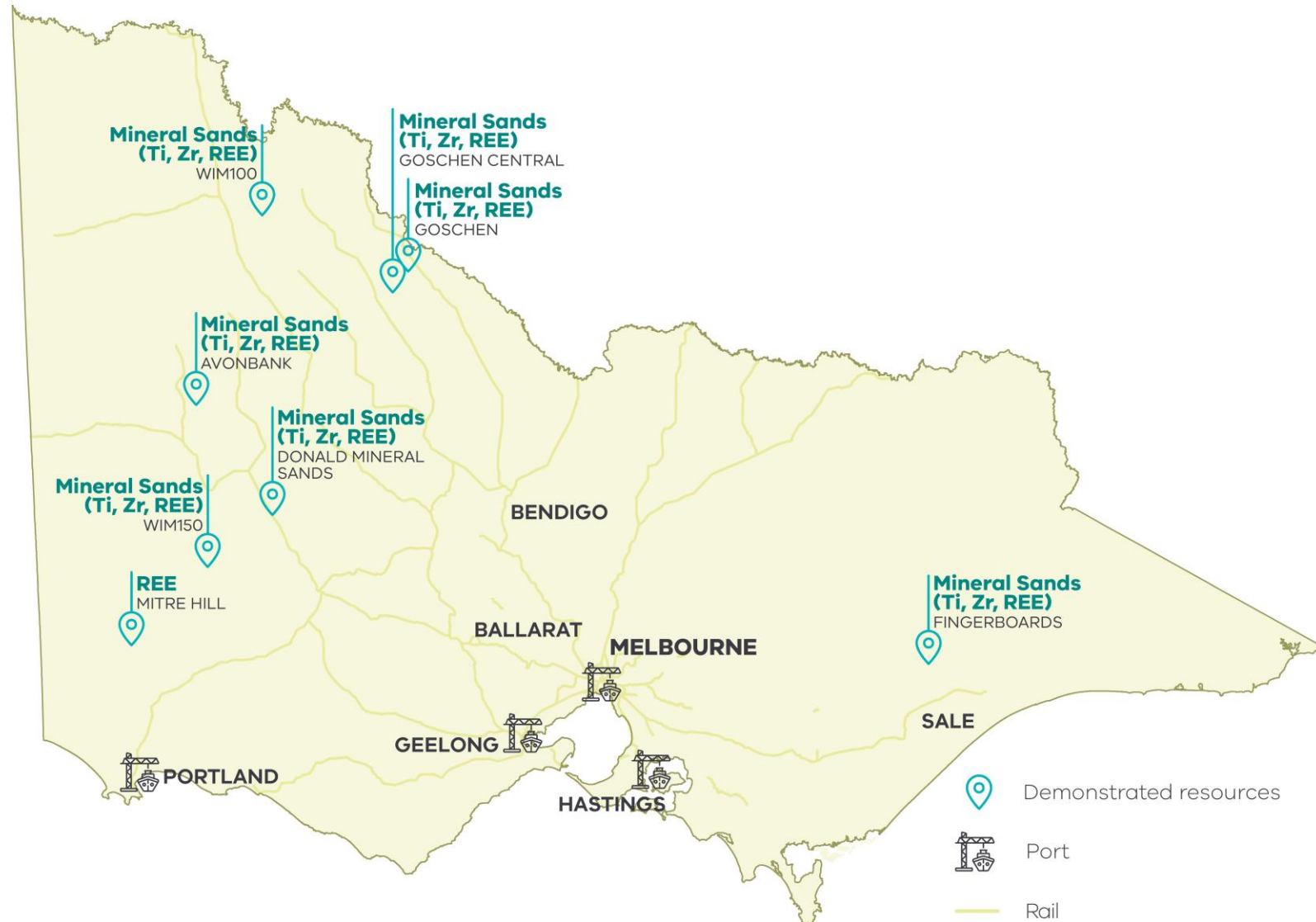


Mineral sands projects with demonstrated resources

















Currently there are **9 mineral sands projects** ranging from **advanced exploration to development** stages with known reserves and resources in Victoria.

These projects have:

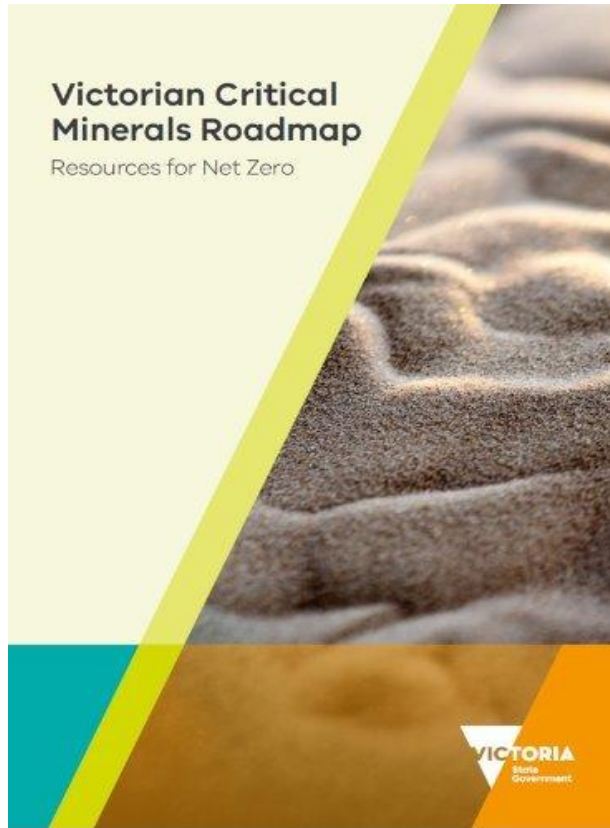
- Multi-decade mine life
- Strong upside potential
- Access to renewable energy
- Access to ports via rail
- Access to residential workforce



Advanced minerals sand projects

Project name	Ownership	Resource	Definitive Feasibility Study	Environmental Effects Statement	Mining Licence	Work Plan (final approval)
Donald Mineral Sands	Astron Corporation	2,634 Mt @ 4.6% HM				
Goschen	VHM Limited	685 Mt @ 3.7% HM				
Avonbank	WIM Resource	311.8 Mt @ 4.3% HM			 Under assessment	
Fingerboards	Gippsland Critical Minerals	1,170 Mt @ 0.5% Zr, 1% TiO ₂ , 0.05% TREO + Y ₂ O ₃	 Underway	 Commencing 2026		
Wimmera	Iluka Resources	2,204 Mt @ 5.7% HM	 Underway	 Underway		
Goschen Central	ACDC Metals	620 Mt @ 3.7% HM	 Scoping Study completed 2025			

The Victorian Critical Minerals Roadmap



For more information
please visit:
[resources.vic.gov.au/
critical-minerals](https://resources.vic.gov.au/critical-minerals)



Theme 1: Mapping the opportunities

Identify and promote new critical minerals opportunities using modern geoscience data and knowledge.



Theme 2: A modern regulatory regime

Establish a Victorian Critical Minerals Coordination Office to engage industry on processes and standards and reduce approvals timelines.



Theme 3: Critical minerals production and processing

Investigate potential economic and national supply security benefits from downstream processing facilities in Victoria.



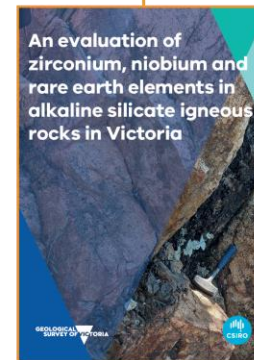
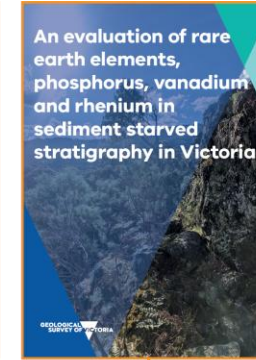
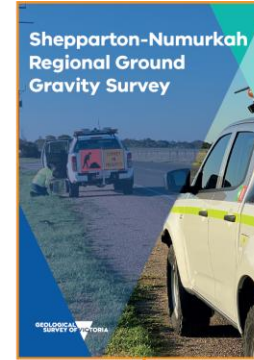
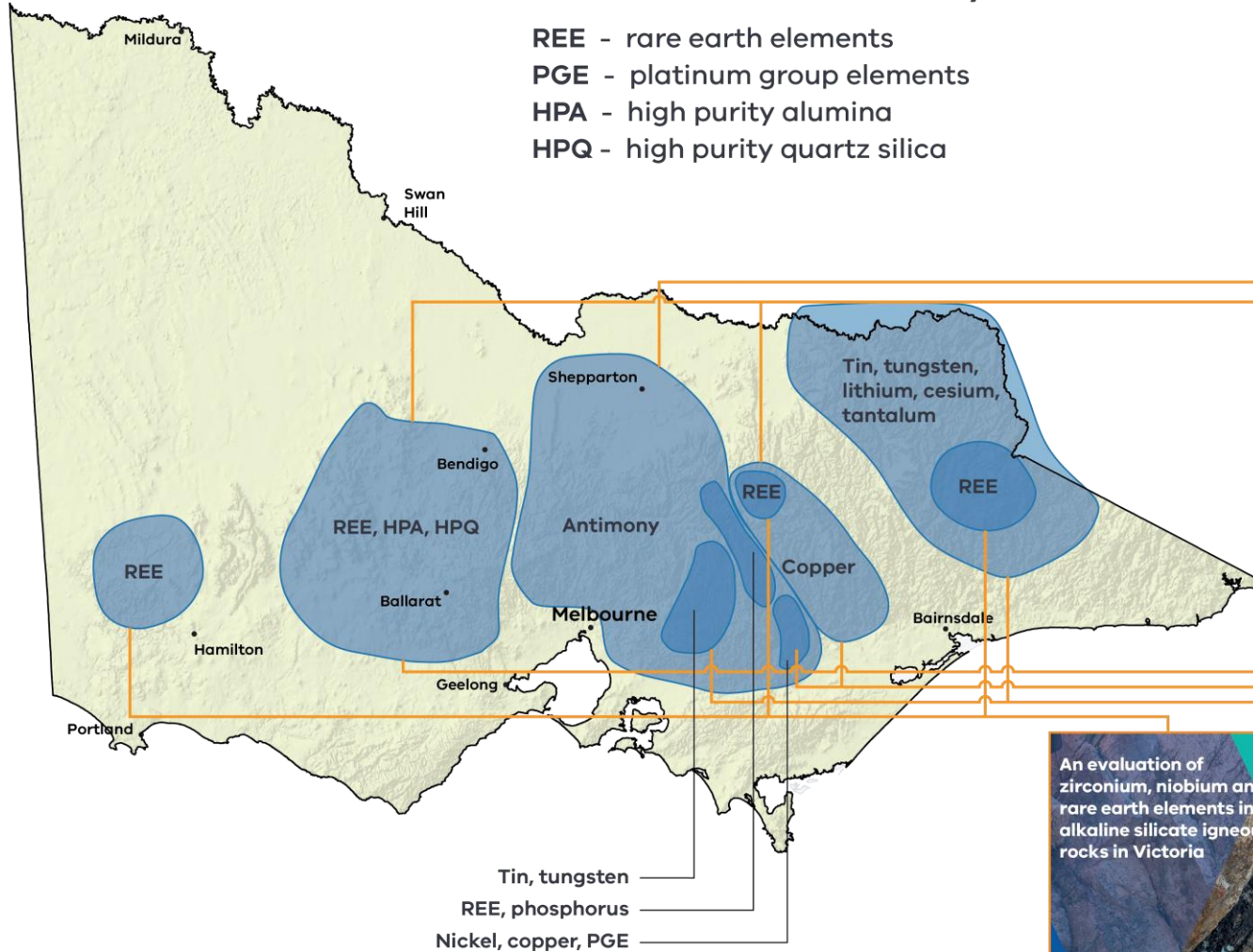
Theme 4: Sharing the benefits of Victoria's minerals

Investigate benefit sharing models for local communities and Traditional Owners, balancing the interests of stakeholders to optimise social, environmental and economic outcomes.

Theme 1: Mapping the opportunities

Initial critical minerals study areas

- REE - rare earth elements
- PGE - platinum group elements
- HPA - high purity alumina
- HPQ - high purity quartz silica



Download the reports here:
earthresources.efirst.com.au

Theme 2: A modern regulatory regime

Resources Victoria Approvals Coordination

- Help navigate complex processes in a timely manner and overcome roadblocks
- Reduce uncertainty associated with development approvals
- Uplift the quality of works approvals applications to maximise success

In the past 12 months Resources Victoria has approved:



Two new exploration tunnels



**One new mining licence
One mine expansion**

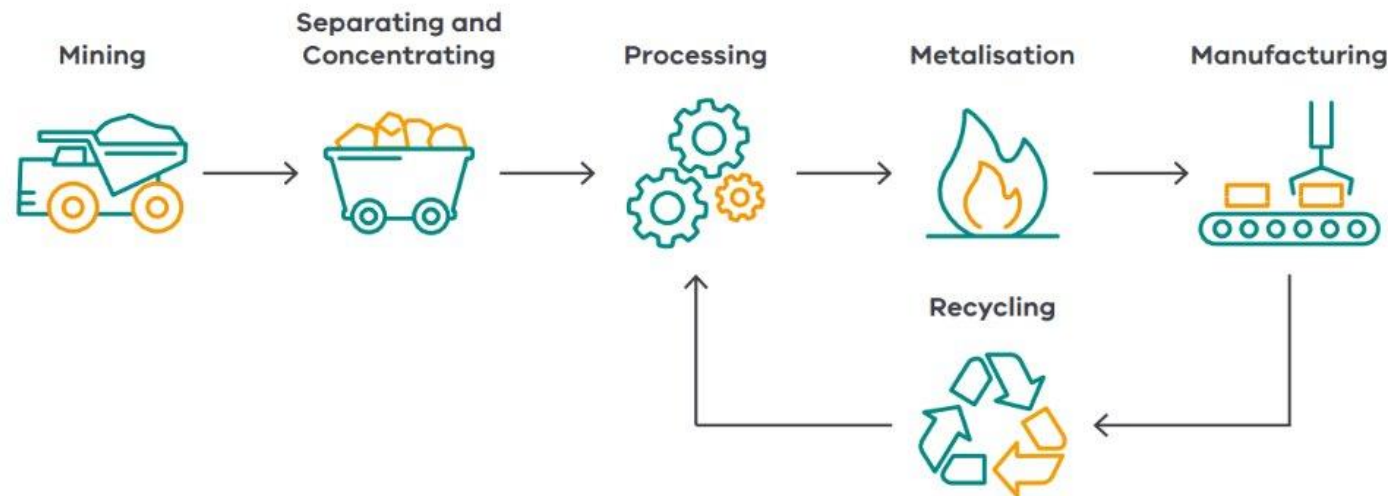


**Two new work plans
(final approval)**

Theme 3: Critical minerals production and processing

Rare Earth Element metalisation study

- Assessing the economic viability of processing rare earths and identifying supply-chain opportunities
- Focusing on processing requirements – exploring a modular system for both light and heavy rare earth elements
- The study will also examine transportation logistics, including how materials move through the system and where the gaps are



The Victorian Advantage



Two new mines approved, one under active consideration



Approvals coordination team to support timely decision making



New critical mineral studies to support exploration



REE metalisation study underway for processing and transport



Infrastructure connections: roads, rail and ports



Mining pathways course funded for regional skills uplift



Dedicated local community engagement team established



Draft benefit sharing models in partnership with Traditional Owners

Victorian critical minerals: Australia's best kept secret? Come and find out.



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REALISE THE OPPORTUNITY

Thank you

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To discover more about Victoria's
key resource opportunities, please visit:
resources.vic.gov.au



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