

AUSTRALIA MINERALS

REALISE THE OPPORTUNITY

Victoria Australia's Gold-Antimony Destination

Louise Goldie Divko
Director, Geological Survey of Victoria
Resources Victoria

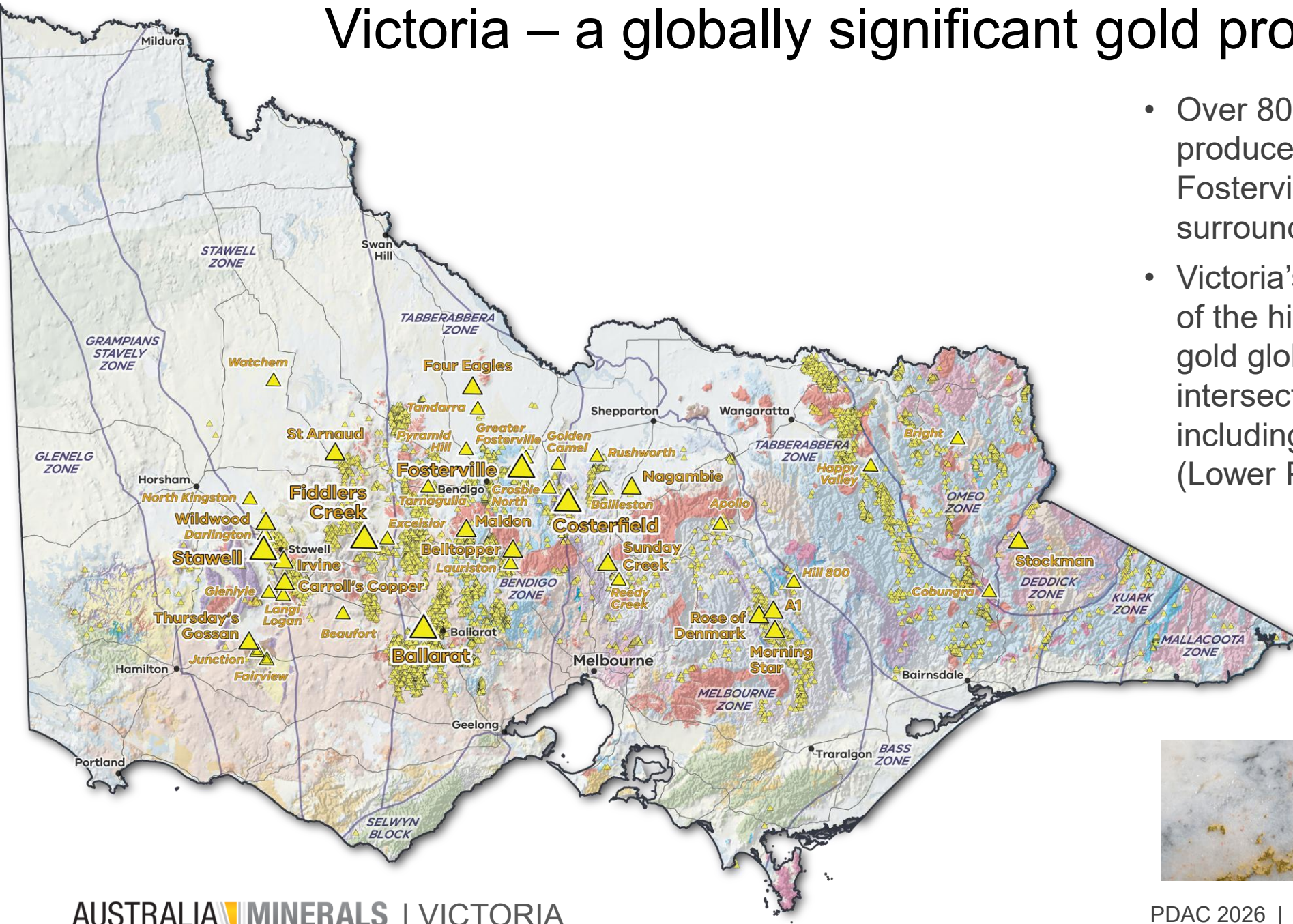


Victoria, Australia: where in the world?

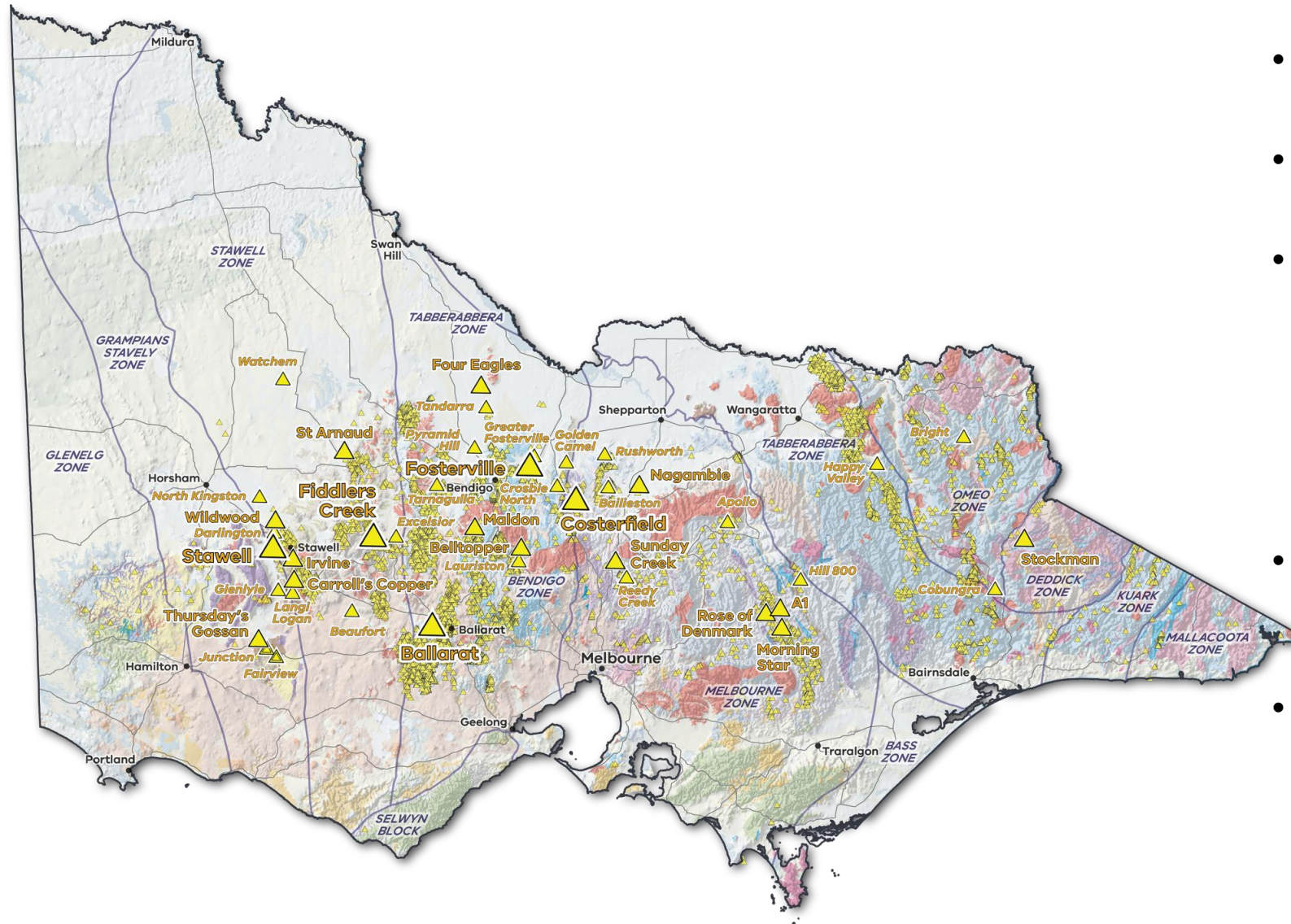


Victoria – a globally significant gold province

- Over 80 million ounces of gold produced historically from Fosterville, Bendigo, Ballarat and surrounding fields.
- Victoria's geology has yielded some of the highest-grade underground gold globally in recent times - intersections of 5.7m @ 72.8 g/t Au, including 0.28m @ 1,383.2 g/t Au (Lower Phoenix ore zone).



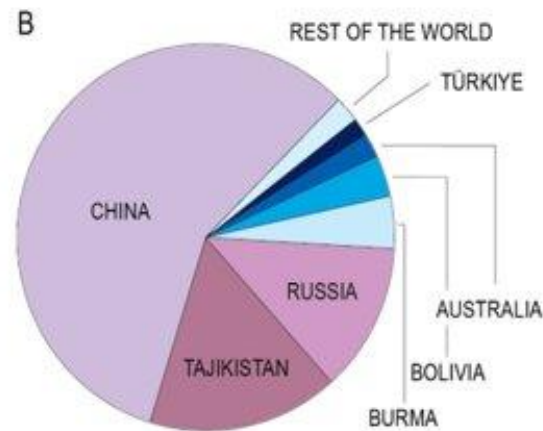
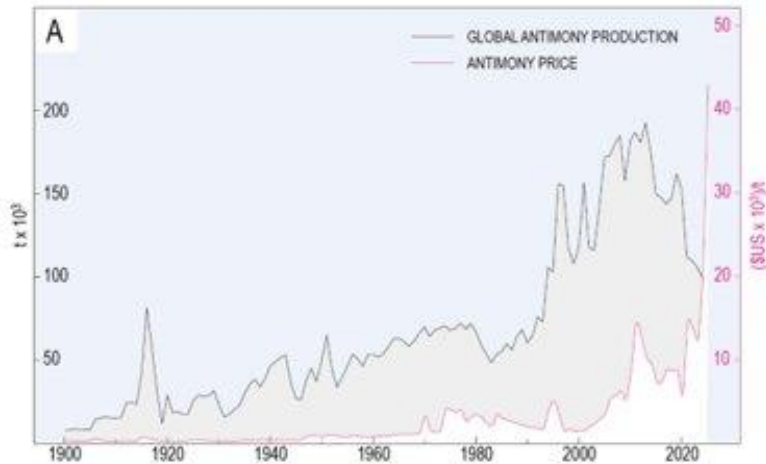
Victoria – a modern, high-grade exploration destination



- Predicted 75 million ounces yet to be found in the northern part of the state alone
- Active junior exploration industry - 92 explorers across 288 licences
- \$103.7M on mineral exploration including \$72M on gold in 2024-2025FY and trending upwards in 2025-2026FY; Gold trending up 21.1% in 25-26FY to date
- Falcon Metals Blue Moon 2.75m @ 41.9g/t Au from 605.3m; including 0.5m @ 222g/t Au from 607.55m
- Southern Cross 559m mineralised corridor averaging 2.5 g/t AuEq (including six >20 g/t AuEq intervals and three assays >100 g/t Au); an ultra high-grade intercept of 1.3m @ 670 g/t AuEq from 869m depth.

Antimony

- A critical mineral with global impact
- Stibnite - accessory mineral in gold bearing quartz veins
- 5% of world production at peak in recent years from Costerfield



Source: USGS, 2024



Stibnite, Sunday Creek. Courtesy Southern Cross Gold

The emerging Antimony story

Discovery: 1851

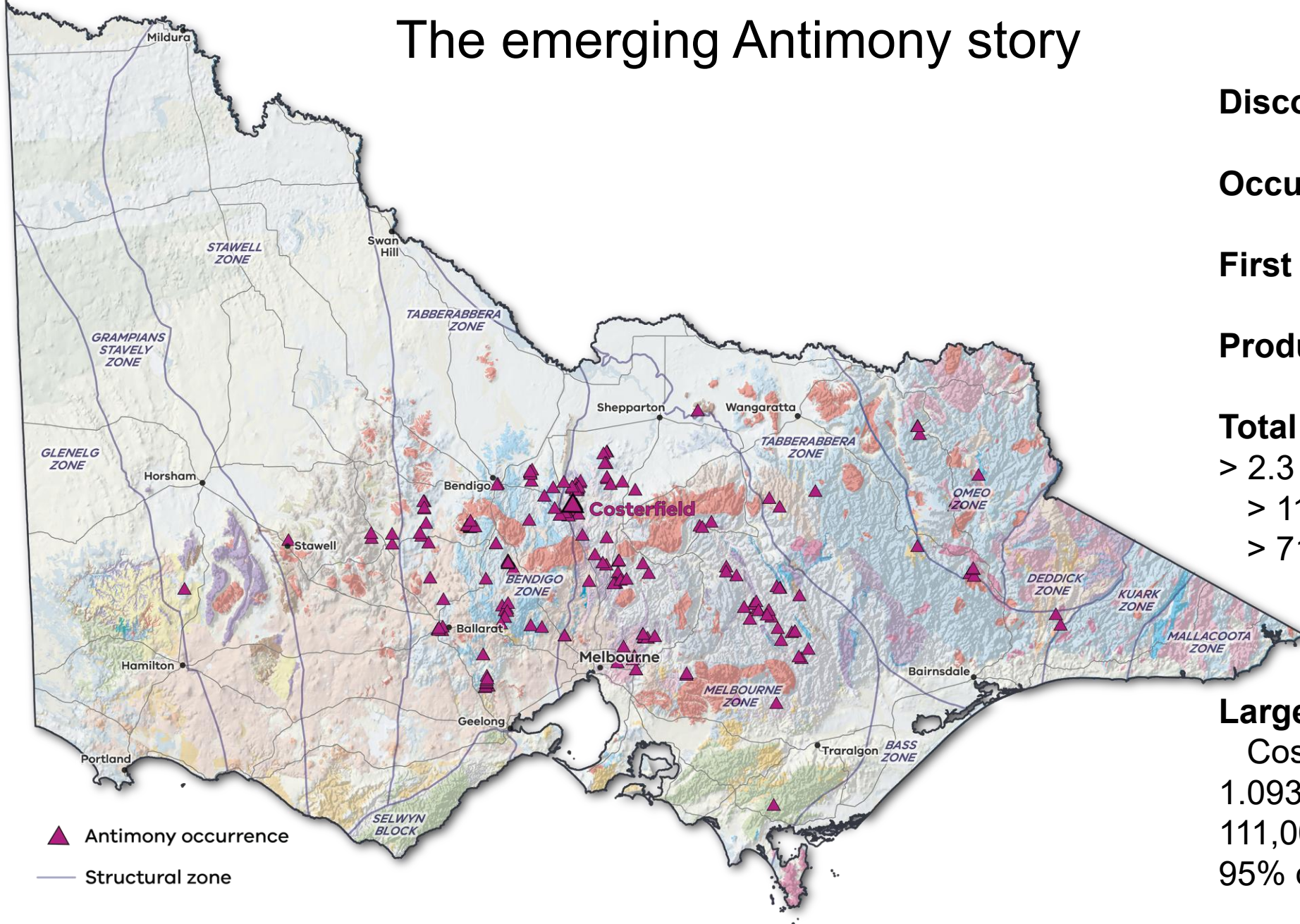
Occurrences: 283

First ore: 1862(?)

Production centres: 113

Total recorded production:
> 2.3 Mt antimony ore, including
> 111 kt antimony conc. and
> 71 kt antimony metal

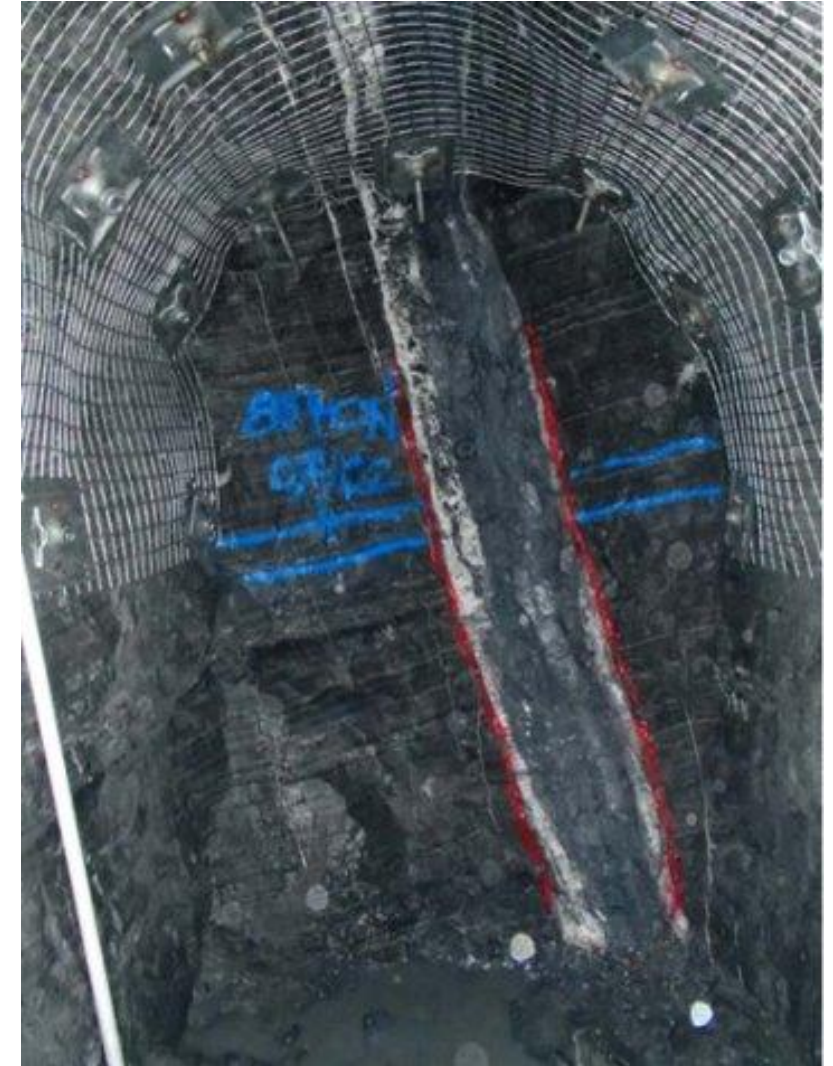
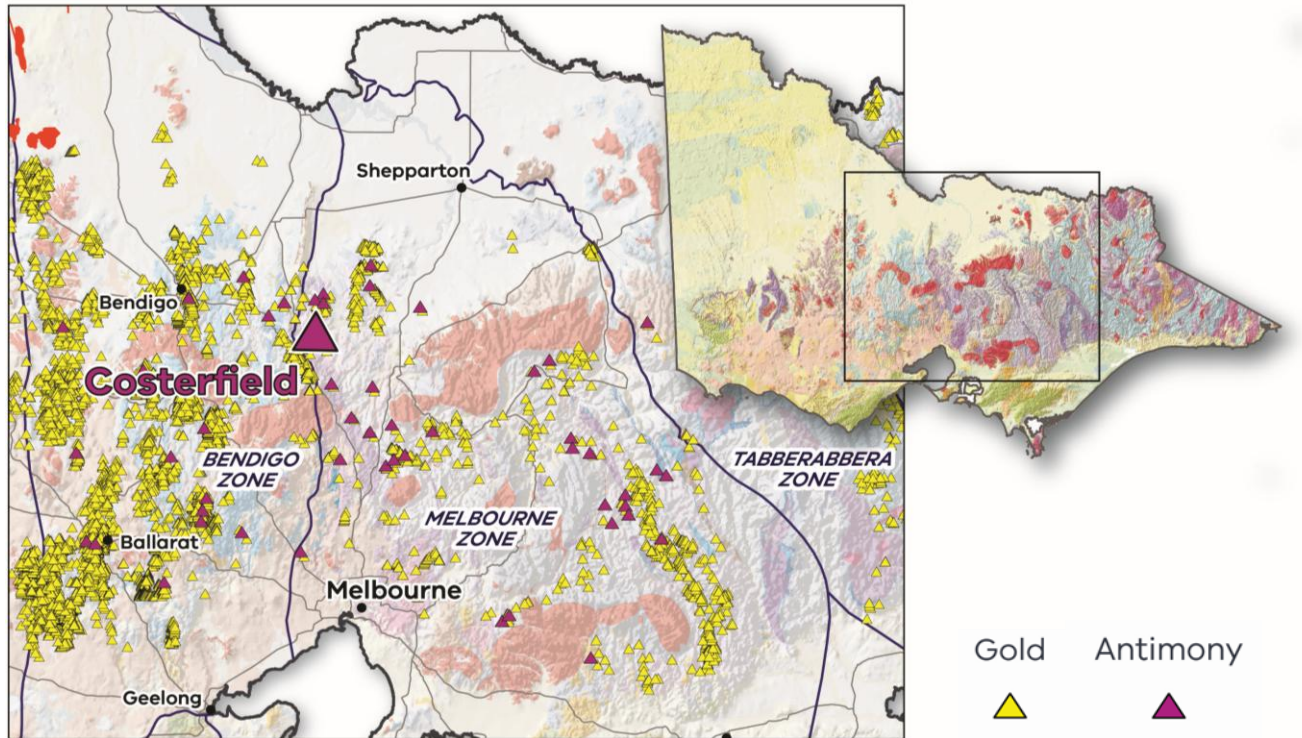
Largest deposit:
Costerfield (c.2Moz AuEq)
1.093 Moz Au
111,000t Sb
95% of its ore tonnes since 2009



Costerfield - Australia's only producing antimony mine

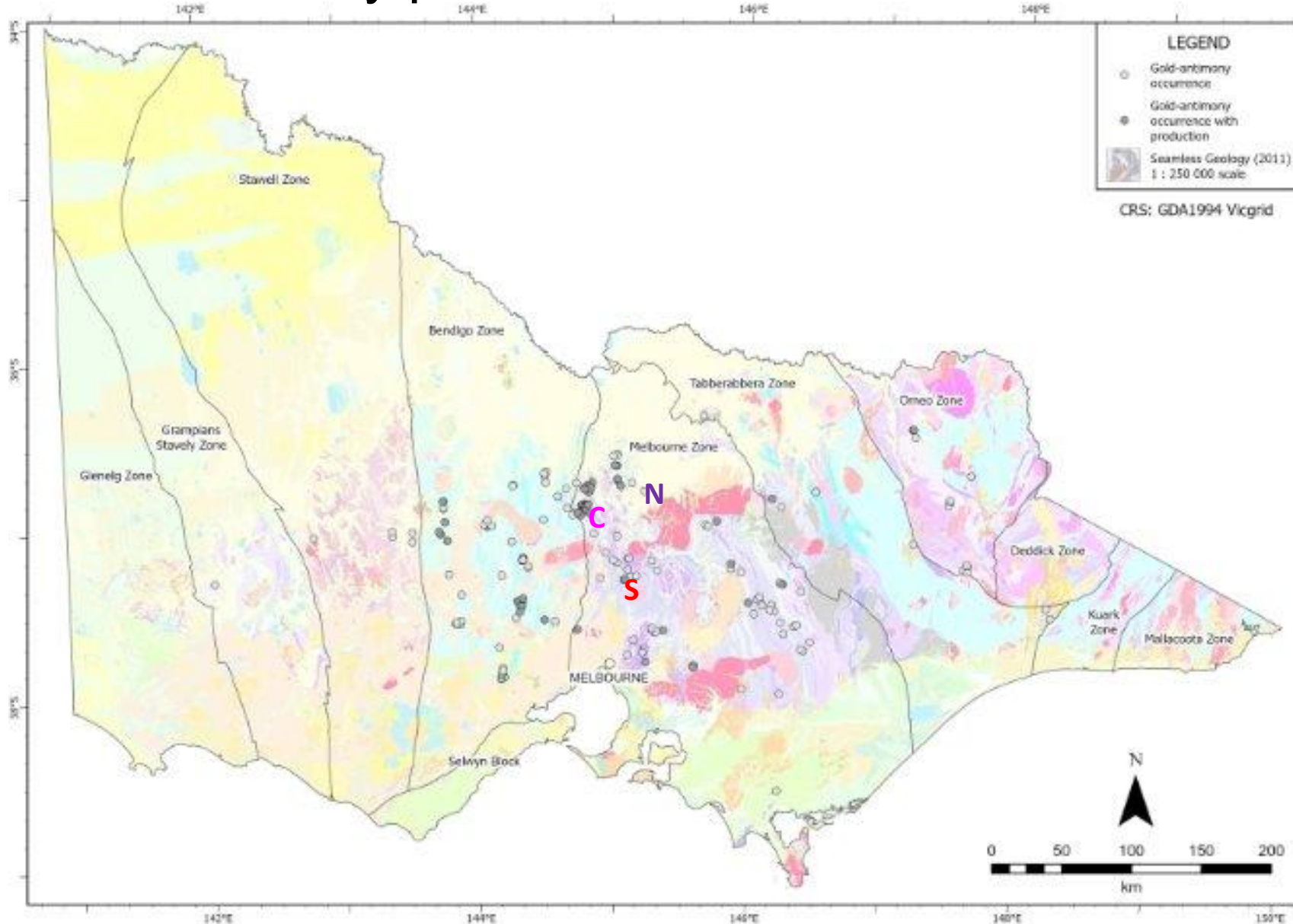
2024 gold production	Gold Grade	2024 antimony production	Antimony Grade
43,346 ounces	11.05 g/t Au	1,282 tonnes	1.83% Sb

2026 production guidance	
Gold	Antimony
37-41 k oz.	750-850 t



Steep dipping massive stibnite-quartz vein cross cutting bedding, Cuffley lode, Costerfield ([Fenwick, 2019](#)).

Gold-Antimony production



Sunday Creek

41kOz Au

27t ore for 3t Sb metal over 4 discontinuous years (1876-1883)

Mineral exploration target

8.1 – 9.6Mt: 6.4-8.3g/t Au, 0.8-0.9% Sb for 2.6Moz Au and 88.2kt Sb

Nagambie

148kOz Au

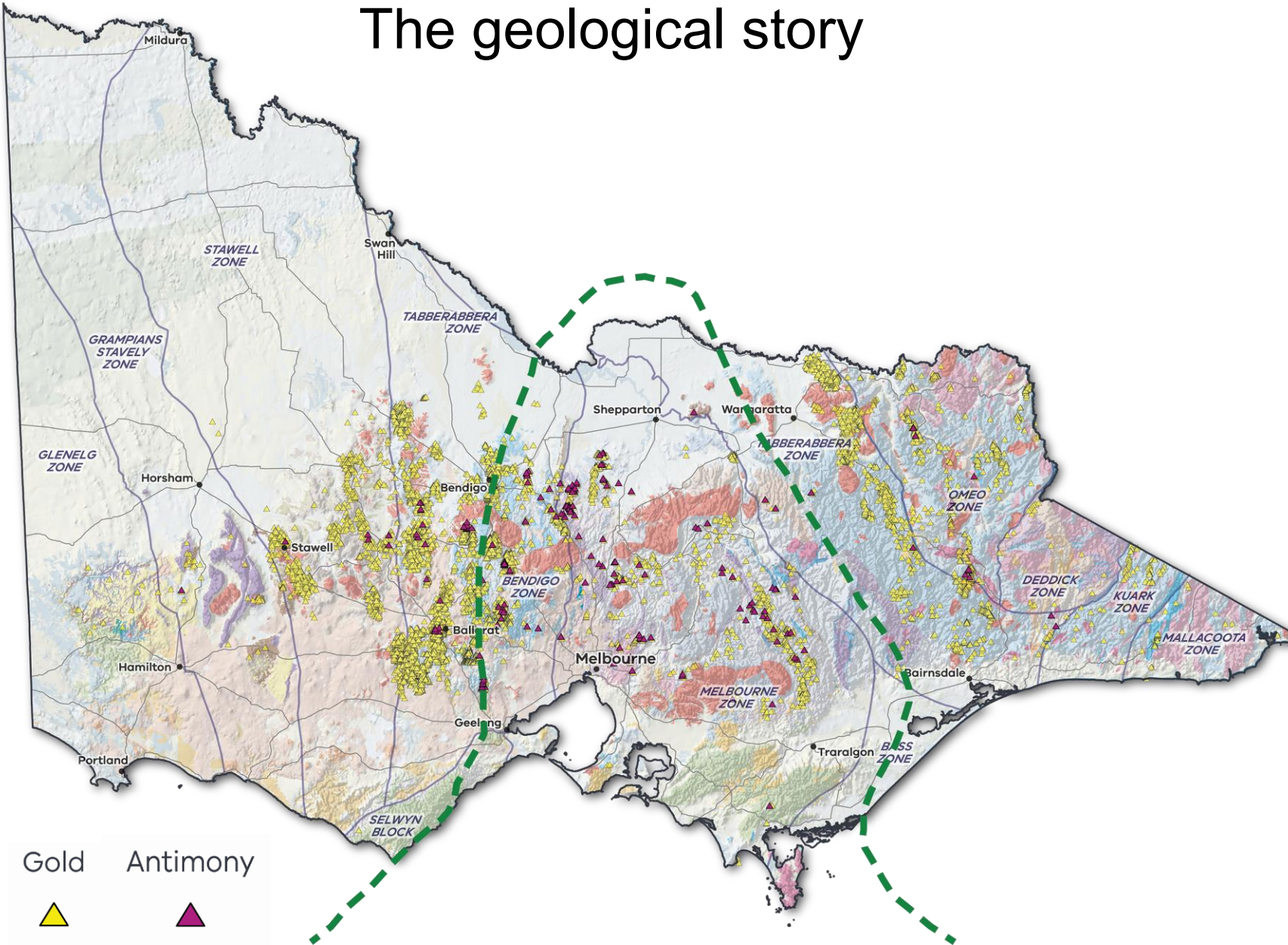
No antimony production.
2006 drill hole beneath West Pit:
7.2g/t Au and Sb 12.3%

Inferred mineral resource

539,000t: 3.3g/t Au, 3.9% Sb for 58koz Au and 20.8kt Sb

+ 20 antimony explorers across 44 licences

The geological story



- Antimony coincident with gold
- 12 structural zones across the state
 - Antimony mainly in the Melbourne Zone and the eastern part of the Bendigo Zone
- Orogenic event in the Devonian
 - linked with the collision of a NeoProterozoic microcontinent collider, known as the Selwyn block (green line) and
 - magmatism

Victorian Critical Minerals Roadmap

Resources for Net Zero

VICTORIA
State
Government



Theme 1
Mapping the opportunities



Theme 2
A modernised regulatory regime



Theme 3
Critical minerals production and
processing in Victoria



Theme 4
Sharing the benefits of
Victoria's minerals

Strong regulatory support driving exploration and development



Fosterville gold mine – approvals securing site operation for the next 10 years



Southern Cross Gold – exploration decline approved supporting rapid resource definition



Catalyst Metals – exploration decline approved



Resources Victoria Approvals Coordinator

New critical minerals studies

Sediment-hosted copper potential of middle Devonian to early Carboniferous rocks of the Howitt Province, east-central Victoria

S.D. Boger, S. Schmid, R.A. Cayley & S.A.F. Waugh

Victoria's Critical Minerals and Strategic Materials
Report 1

An evaluation of rare earth elements, phosphorus, vanadium and rhenium in sediment starved stratigraphy in Victoria

T.M. Andrews & R.A. Cayley

Victoria's Critical Minerals and Strategic Materials
Report 2

An evaluation of high-purity alumina and rare earth elements in select clay occurrences of central Victoria

T.M. Andrews & R.A. Cayley

Victoria's Critical Minerals and Strategic Materials
Report 3

Critical minerals geoscientific database

T.M. Andrews

Victoria's Critical Minerals and Strategic Materials
Report 4

Re-Os geochronology of Victorian mineral occurrences

S.A.F. Waugh, R.A. Creaser, C.P. Cairns, R.J. Duncan & R.A. Cayley

Victoria's Critical Minerals and Strategic Materials
Report 5

U-Pb cassiterite, scheelite and wolframite ages from Victorian tin and tungsten occurrences

S.A.F. Waugh, C.S. Holm-Denoma, N.E. Wintzer & C.P. Cairns
Victoria's Critical Minerals and Strategic Materials
Report 6

Dyke-hosted copper-nickel-platinum group element mineralisation in Victoria

S.D. Boger, T.U. Schlegel & R.R. Keays

Victoria's Critical Minerals and Strategic Materials
Report 7

An evaluation of zirconium, niobium and rare earth elements in alkaline silicate igneous rocks in Victoria

T.M. Andrews, Z. Pintér, R.A. Cayley & S.D. Boger

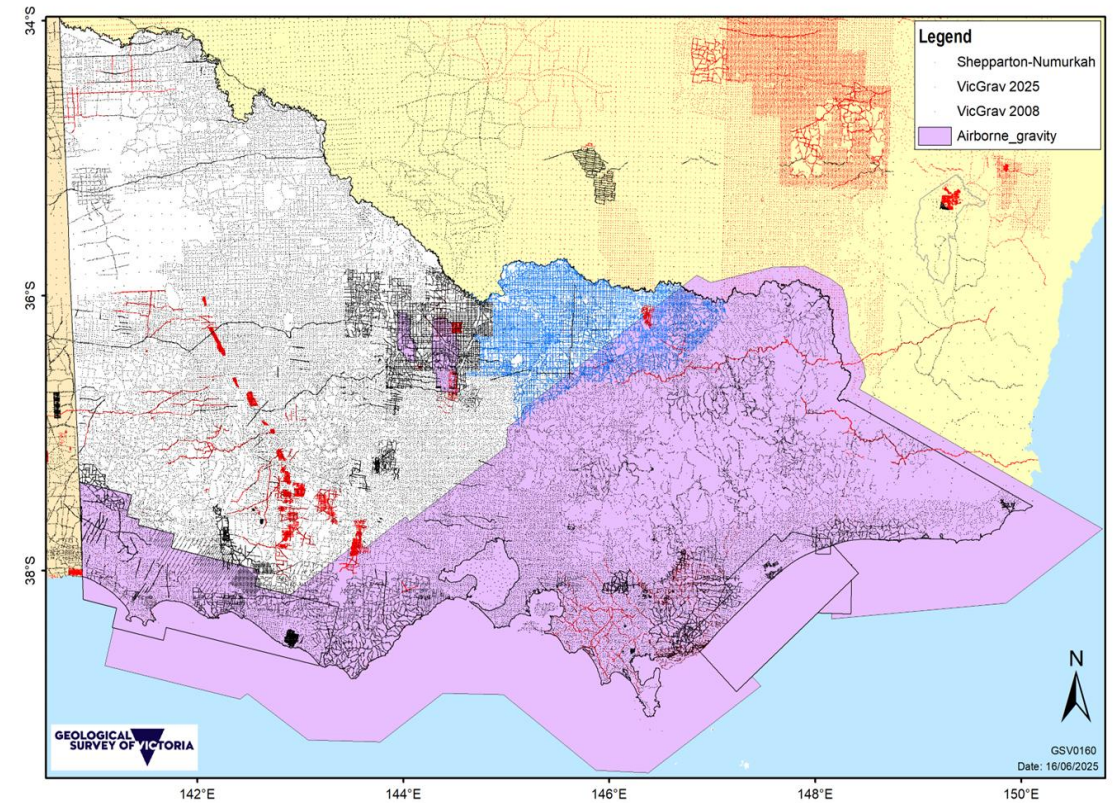
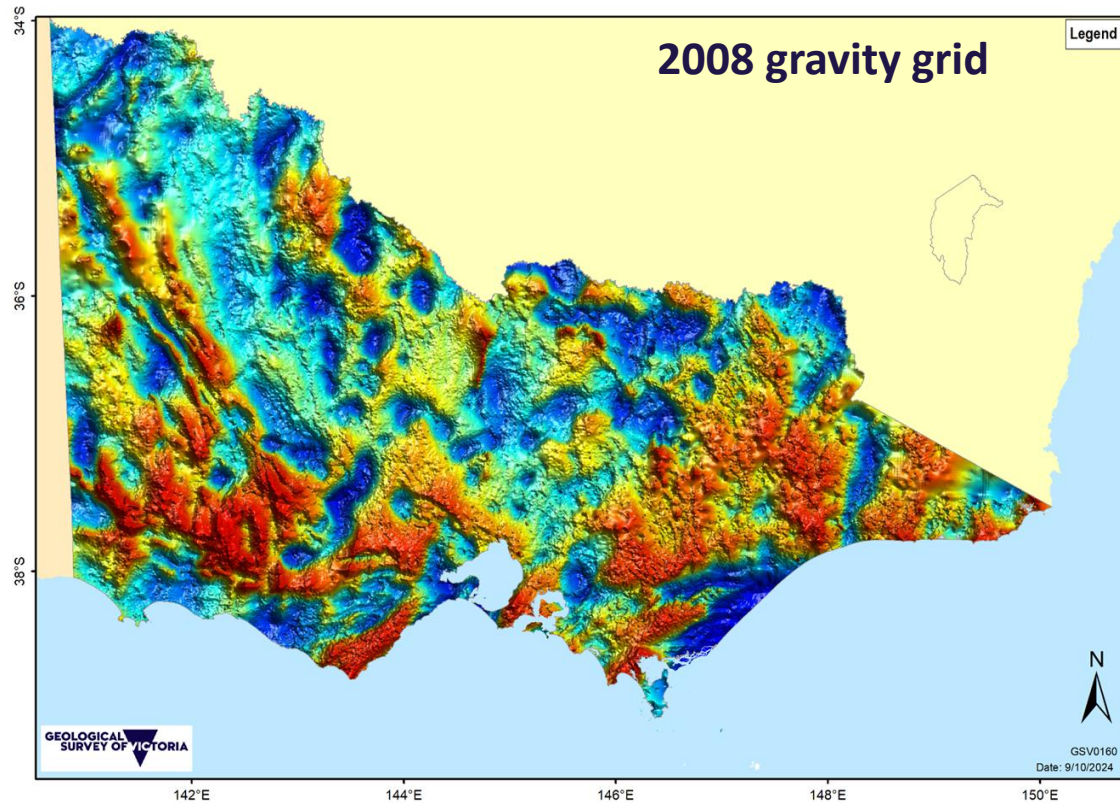
Victoria's Critical Minerals and Strategic Materials
Report 8

BIG Antimony report coming up next!



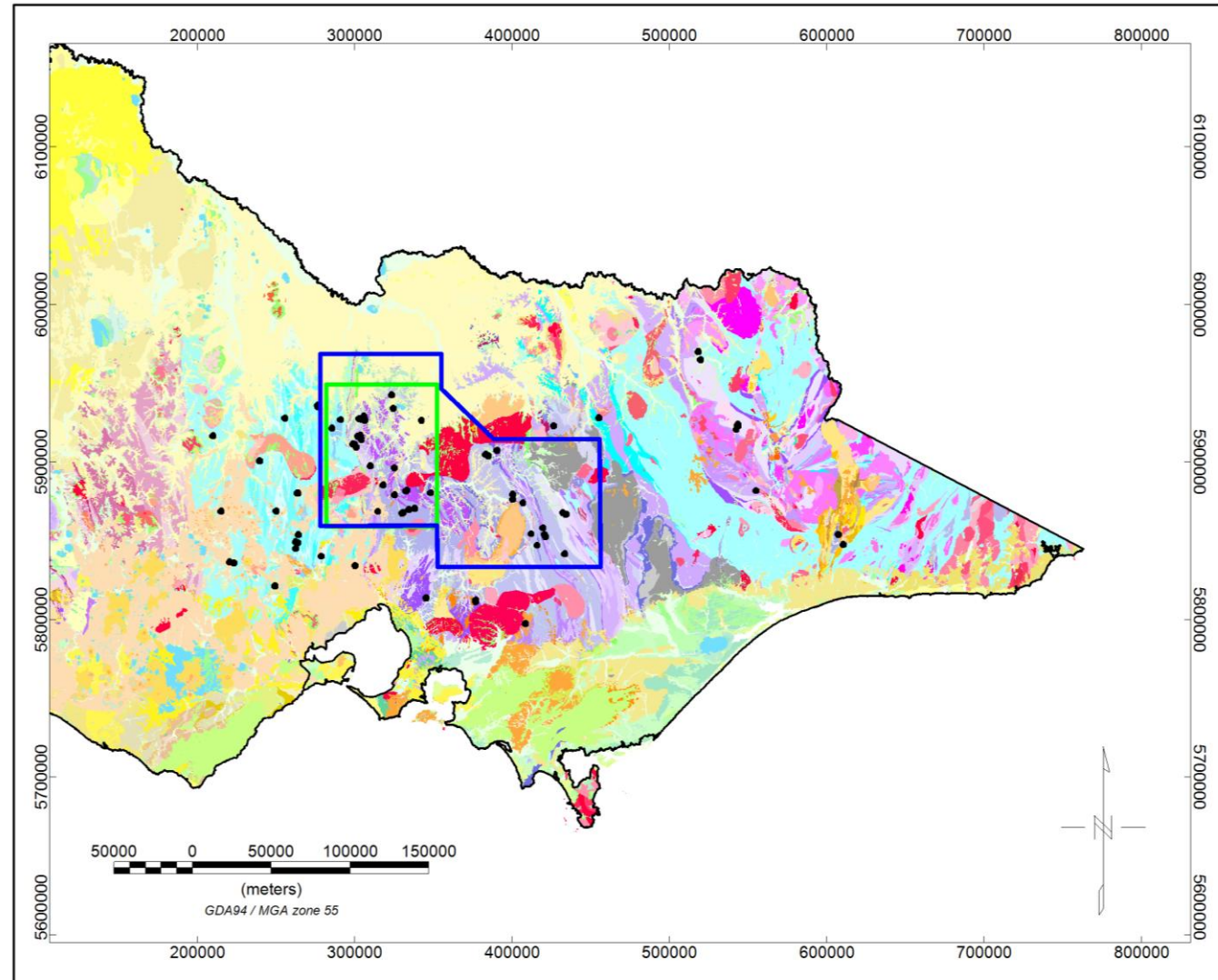
Next generation statewide gravity map

- Since 2008 an additional 72,295 ground gravity stations have been acquired as well as several hundred-thousand-line kilometres of airborne gravity
- Opportunity to improve Victoria's regional gravity dataset by merging ground and airborne data
- QC'ing and reviewing data, testing workflows, building digital terrain models



Airborne Electromagnetics survey

- New regional airborne electromagnetic survey in the central Melbourne Zone in 2026
- In collaboration with Geoscience Australia
- 5 km line spacing
- Over known antimony mines, projects and occurrences and tagging the margin of the Murray Basin (northern Melbourne Zone)
 - Geological mapping and structure
 - Groundwater baseline
 - Aid targeted exploration



Victoria's geoscience: A wealth of freely accessible information

Pre-competitive data and knowledge

- [Free maps, reports and data](#)
- [GeoVic](#) – free online mapping application

Geology

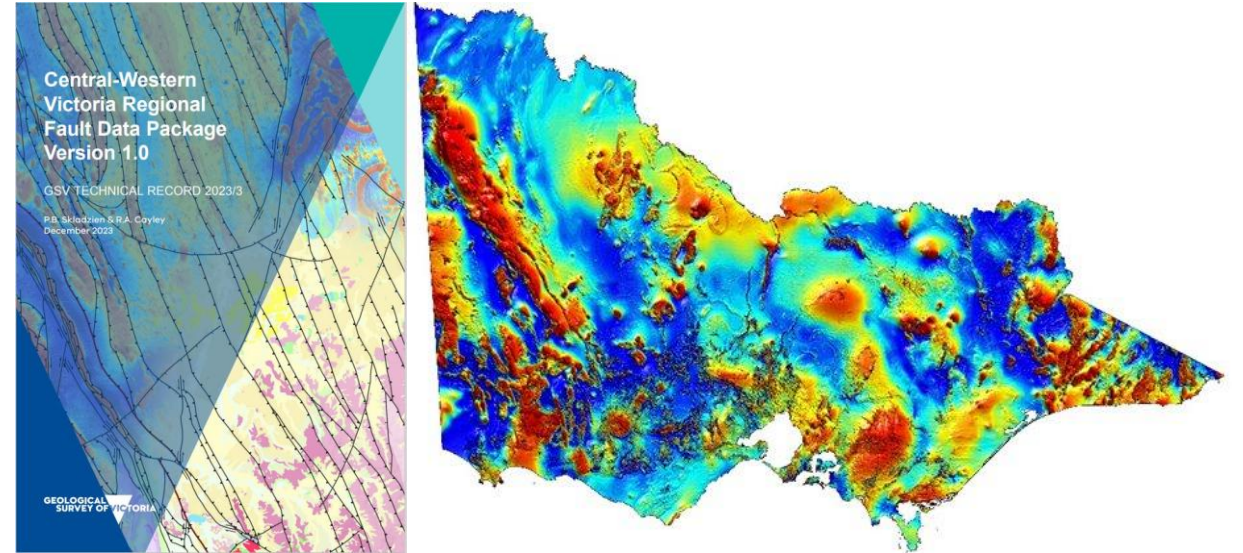
- Seamless – [1:250k](#) and [1:50k](#)
- [3D geological full crust model](#)

Geophysics

- Modern, state-wide

Drill Core Library

- 1.5 million metres of drill core and cuttings
- [>13,000 drill holes](#)



AUSTRALIA  MINERALS

REALISE THE OPPORTUNITY

Victoria

Australia's gold-antimony destination

louise.goldiedivko@deeca.vic.gov.au
Director, Geological Survey of Victoria
Resources Victoria

