

**NAGAMBIE
RESOURCES**

*ADVANCING A HIGH-GRADE
ANTIMONY & GOLD
DISCOVERY*

Annual General Meeting
Company presentation

30 NOVEMBER 2023 | ASX: NAG



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CORPORATE OVERVIEW

Company ASX Code	NAG
Share Price ¹	AUD\$0.030
Ordinary Shares on Issue	~581,726,316
Quoted options on Issue	~75M
Market Capitalisation (undiluted) ¹	\$17.5M

Register

	% Quoted shares
Southern Cross Gold	9.71%
Adare Manor Pty Ltd <Adare Manor Super Fund A/C>	8.59%
PPT Nominees	5.32%
Directors and Senior Management	22%
Top 10	47.1%
Top 20	60.8%

Mike Trumbull
Executive Chairman



Bill Colvin
Non-Executive Director



Kevin Perrin
Non-Executive Director

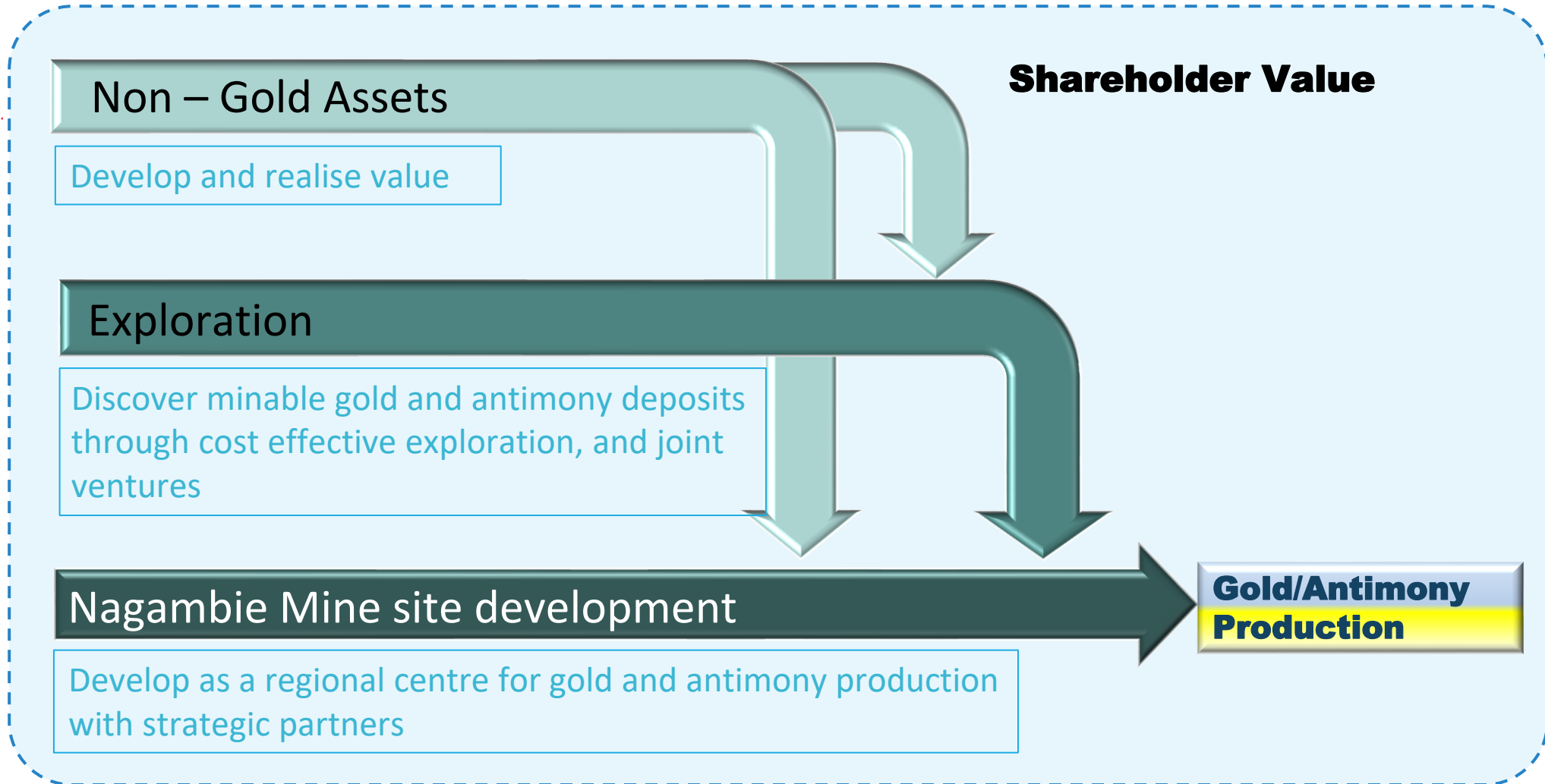


Alfonso Grillo
Non-Executive Director /
Company Secretary

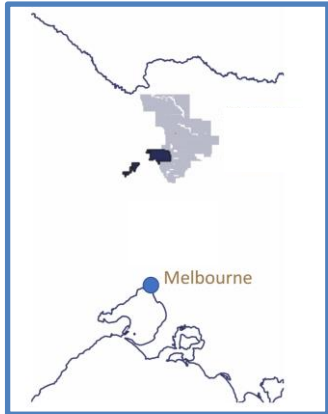


Warwick Grigor
Non-Executive Director





EXPLORATION PROJECTS

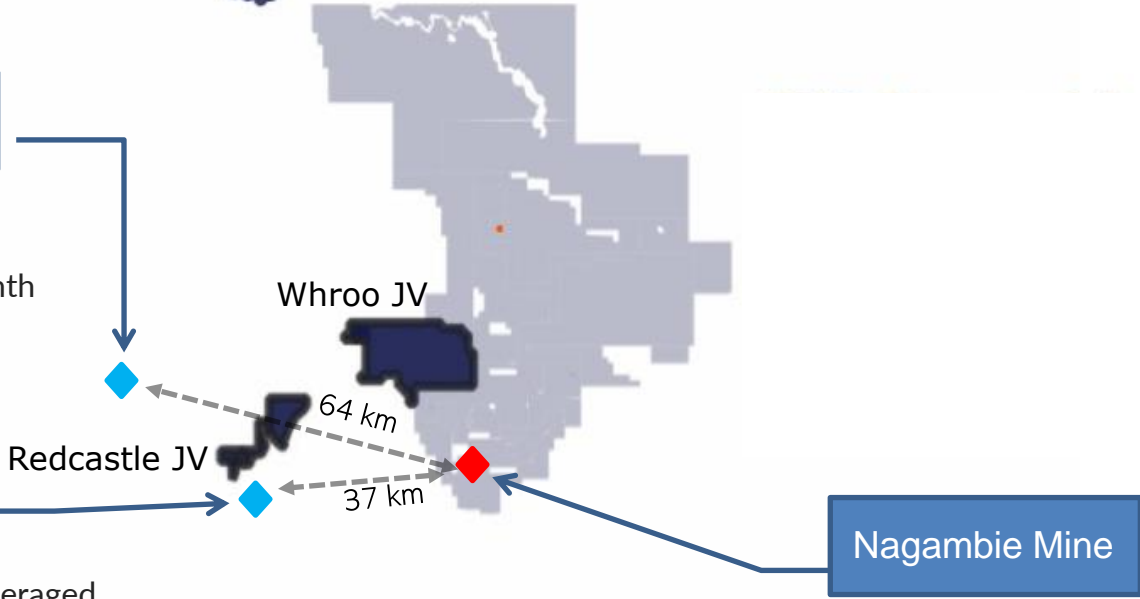


Fosterville Mine

In March 2023, Fosterville celebrated producing its 4 millionth ounce of gold.

Costerfield Mine

Q3 2023 head grades averaged 9.6 g/t gold and 2.2% antimony (13.8 g/t AuEq)



Nagambie Mine

Nagambie Resources' tenement holding:

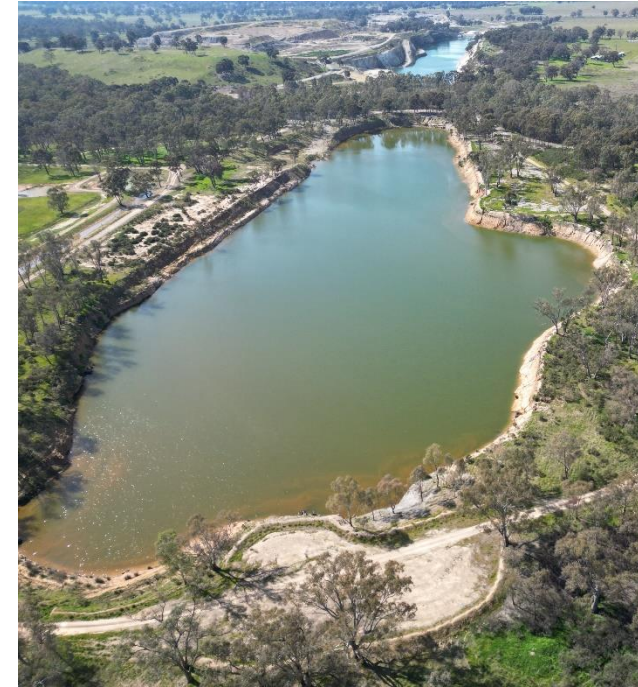
- 35 tenements totalling +3,300 sq km
- 7 tenements in the Whroo JV totalling 179 sq km
- 3 tenements in the Redcastle JV totalling 75 sq km

100% owned Nagambie Antimony Gold Project

NAGAMBIE ANTIMONY GOLD PROJECT



Drilling on the north side of the West Pit (NAD016 to NAD028)



West Pit

The drill program completed to date

April 2022

Drill program commencement

35

No. of drillholes completed

11,000+ m

No. of meters drilled

1621+

No. of assays completed

NAGAMBIE ANTIMONY GOLD PROJECT

The discovery



Announced on 16 November 2022, one of the highest grading antimony mineralised systems in Australia

4

high-grade vein systems discovered to date

38

Minable intersections (lodes) to date

1.6 m

Average estimated horizontal thickness of veins

14.5 g/t

Minable lode average gold equivalent grade

5.6%

Minable lode average **ANTIMONY** grade

3.8g/t

Minable lode average **GOLD** grade

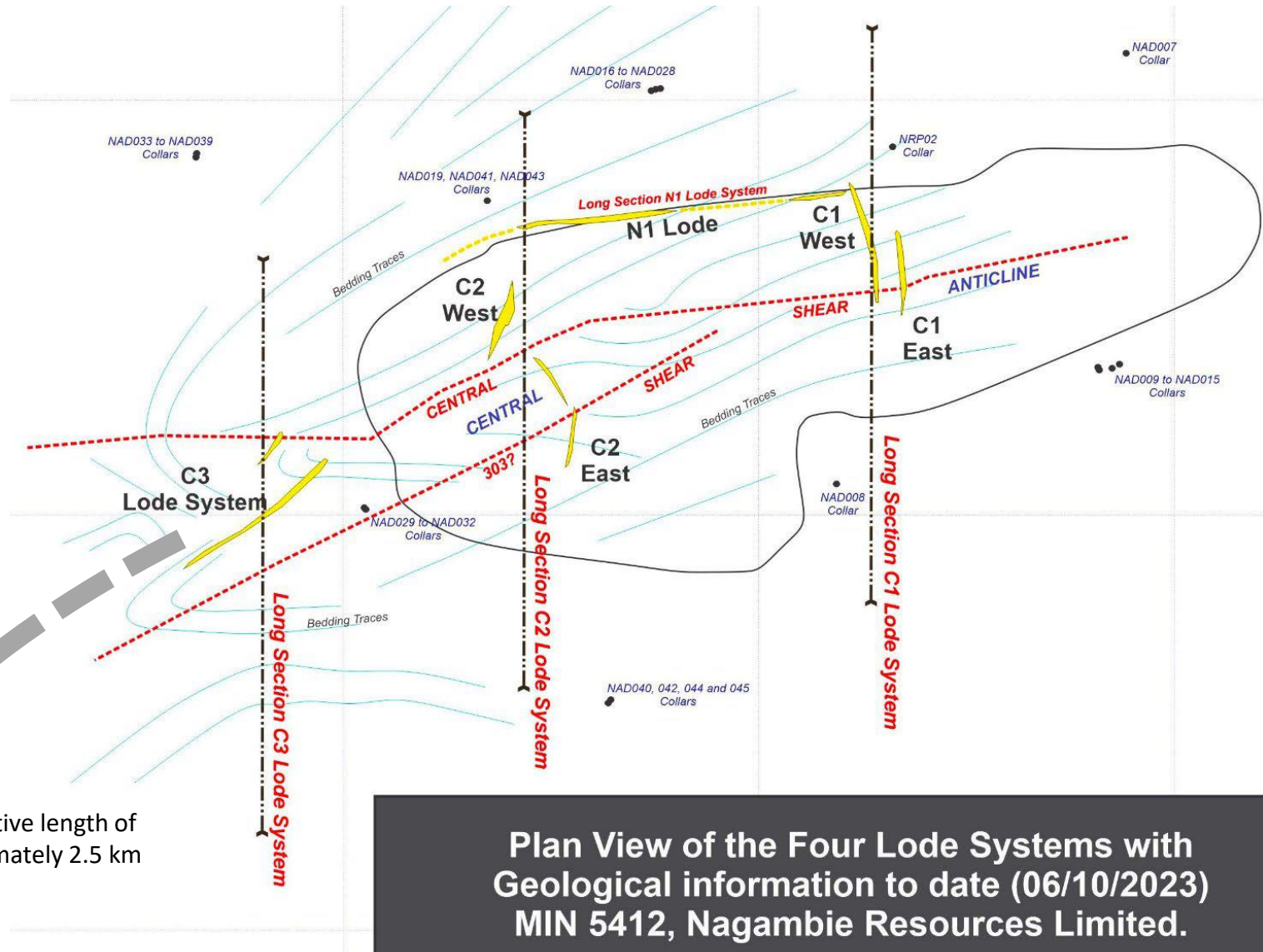


Core logging shed

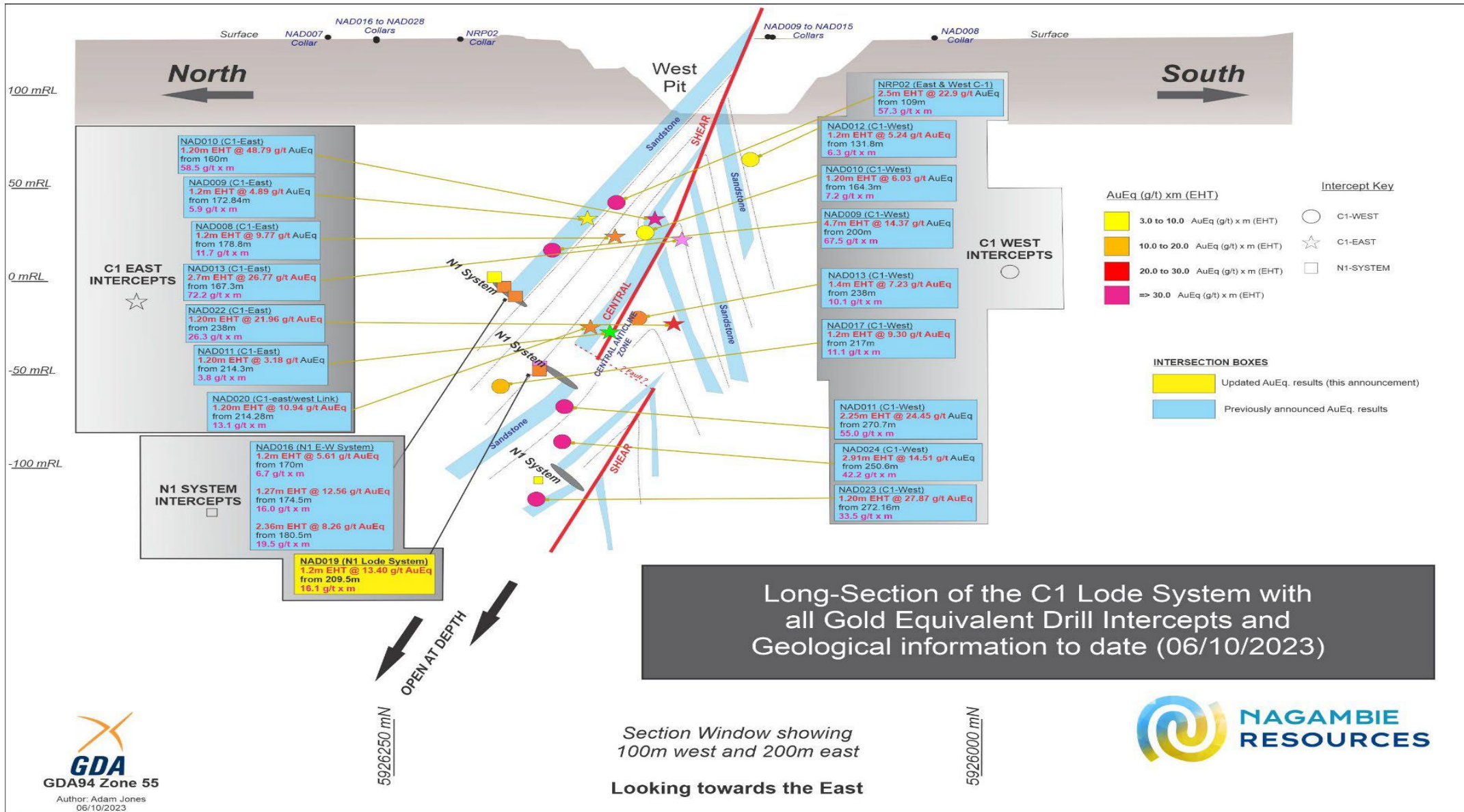


Massive Stibnite Veining in NAD009

NAGAMBIE ANTIMONY GOLD PROJECT

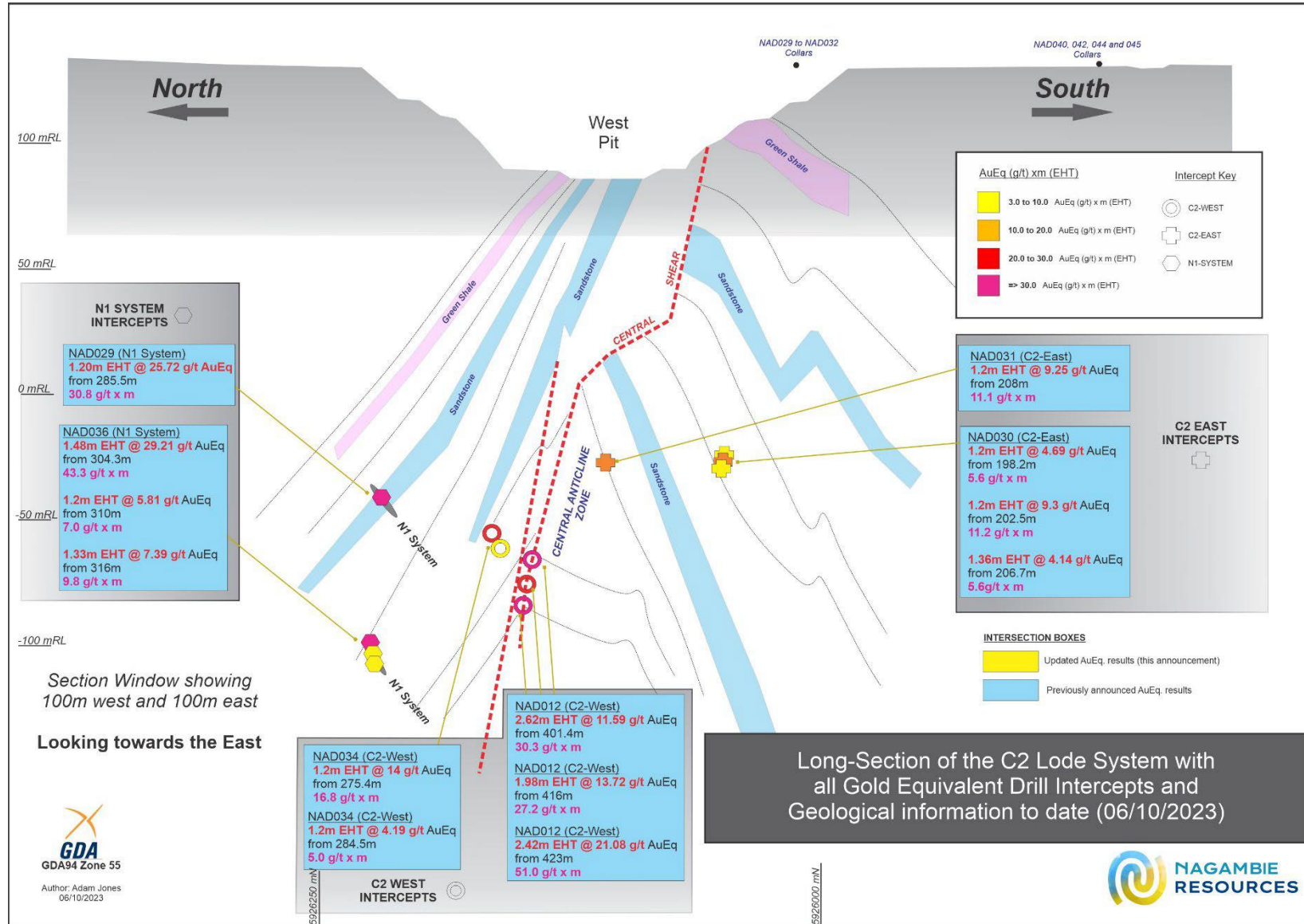


NAGAMBIE ANTIMONY GOLD PROJECT



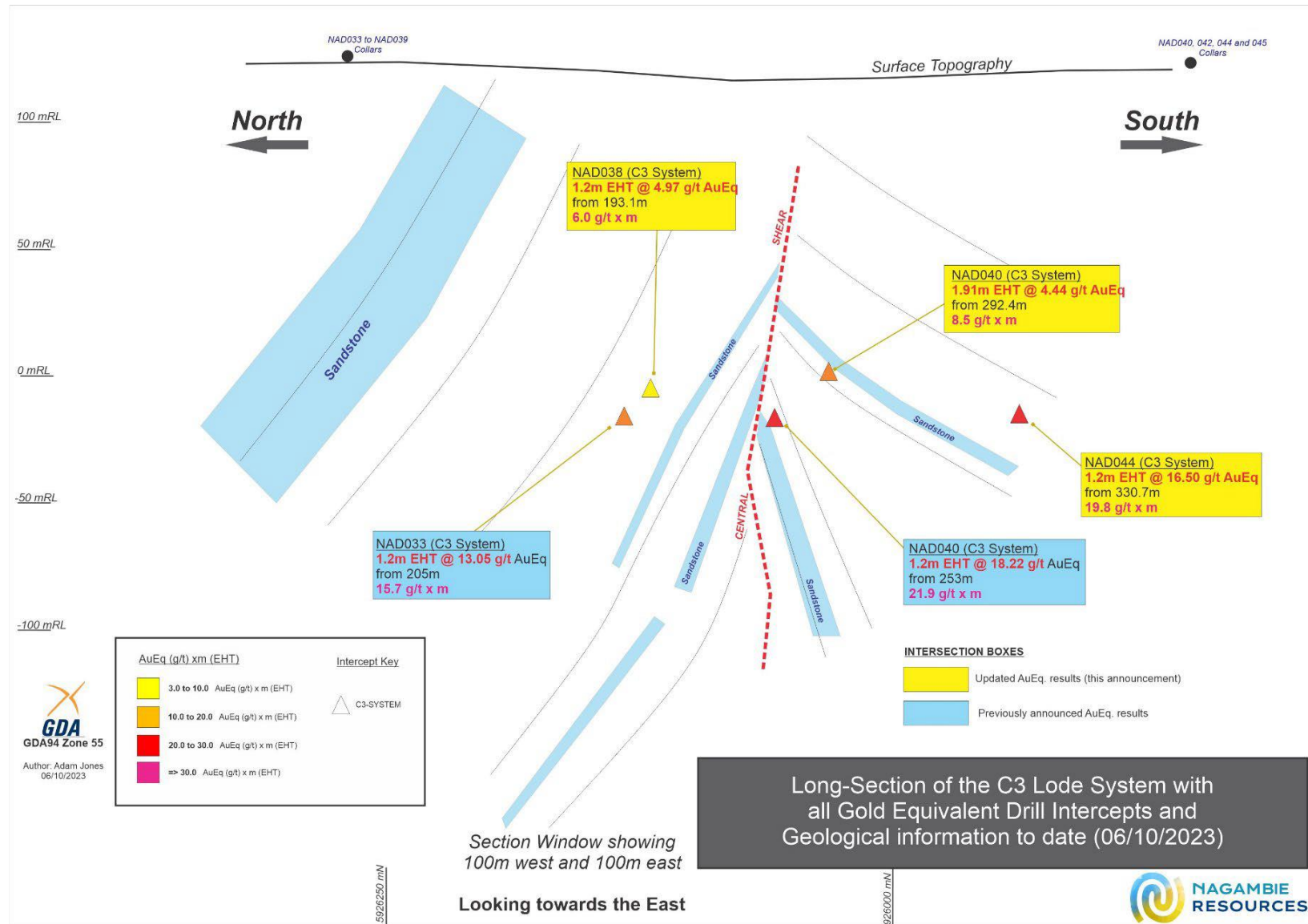
Long-Section of the C1 Lode System with all Gold Equivalent Drill Intercepts and Geological information to date (06/10/2023)

NAGAMBIE ANTIMONY GOLD PROJECT



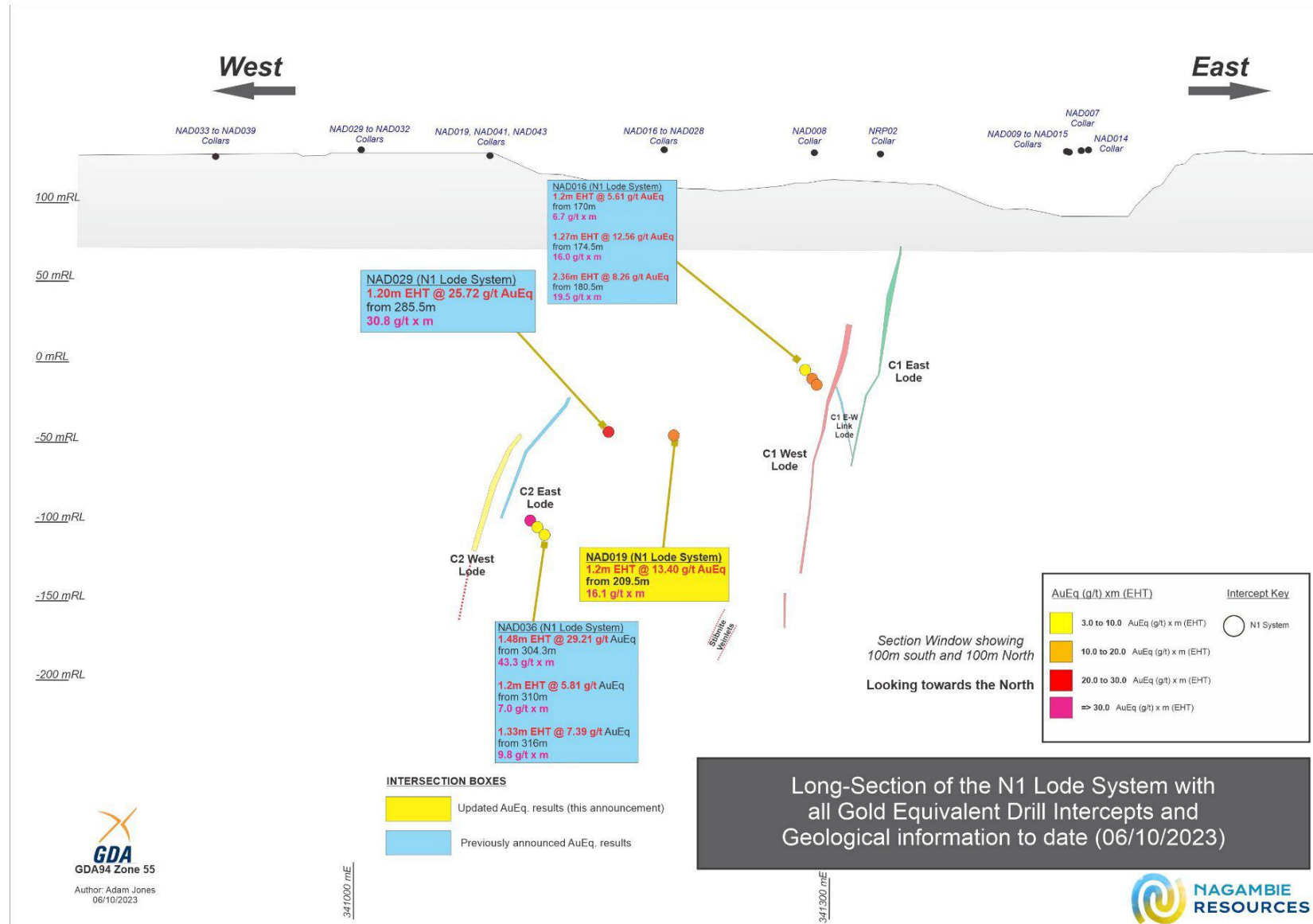
Long-Section of the C2 Lode System with all Gold Equivalent Drill Intercepts and Geological information to date (06/10/2023)

NAGAMBIE ANTIMONY GOLD PROJECT



Long-Section of the C3 Lode System with all Gold Equivalent Drill Intercepts and Geological information to date (06/10/2023)

NAGAMBIE ANTIMONY GOLD PROJECT



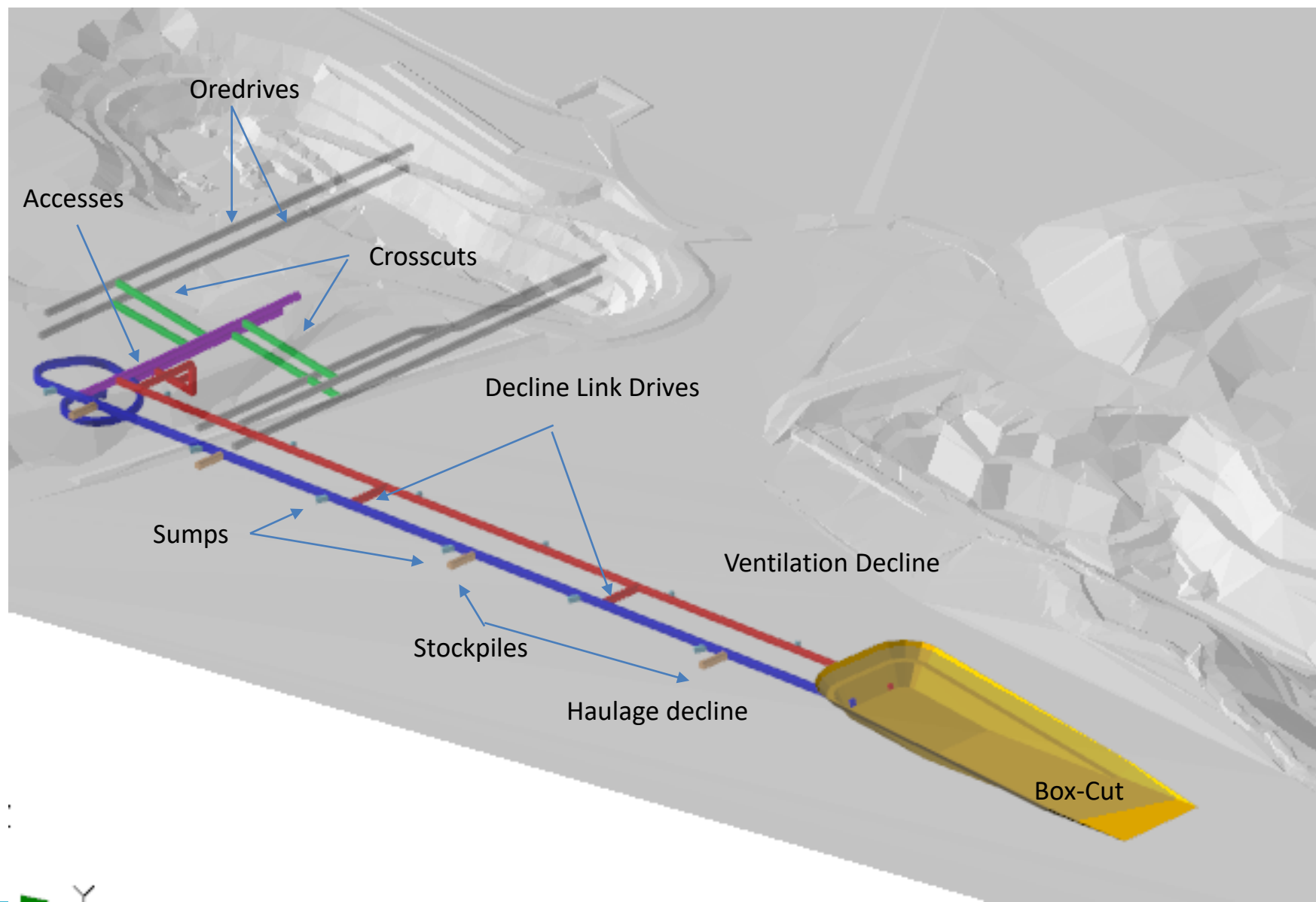
Long-Section of the N1 Lode System with all Gold Equivalent Drill Intercepts and Geological information to date (06/10/2023)

NAGAMBIE ANTIMONY GOLD PROJECT

Exploration decline

Exploration development contains the following development:

- Twin decline
- Decline link drives
- Decline Stockpiles
- Decline Sumps
- Level accesses from Haulage decline
- Return airways
- Crosscut drives
- Ore drives on the top 2 levels



ANTIMONY

- Antimony is one of only six minerals listed as critical in the **US, Canada, Europe, Japan, China and Australia**
- Total world reserves are approximately **2,000,000 tonnes**

	Aluminum	Antimony	Beryllium	Bismuth	Chromium	Cobalt	Copper	Fluorspar	Gallium	Germanium	Graphite	Hafnium	Helium	Indium	Lithium	Magnesium	Manganese	Nickel	Niobium	PGMs	Phosphorous	Rare Earths	Rubidium	Scandium	Strontium	Tantalum	Tellurium	Tin	Titanium	Tungsten	Uranium	Vanadium	Zirconium
Australia		Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y		Y	Y			Y	Y		Y	Y	
Canada	Y	Y		Y	Y	Y		Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	
China	Y	Y			Y	Y	Y	Y		Y	Y				Y			Y			Y	Y						Y	Y	Y	Y	Y	
Europe		Y	Y	Y		Y		Y	Y	Y	Y	Y		Y	Y	Y			Y	Y	Y	Y		Y	Y	Y			Y	Y		Y	
Japan		Y	Y		Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y	Y	Y	Y	Y				Y	Y		Y	Y	Y	Y	Y	
USA	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	

ANTIMONY

Antimony

Historically and economically, antimony is the second most important metallic commodity in Victoria, after gold (Geological Survey of Victoria).

Main uses of Antimony

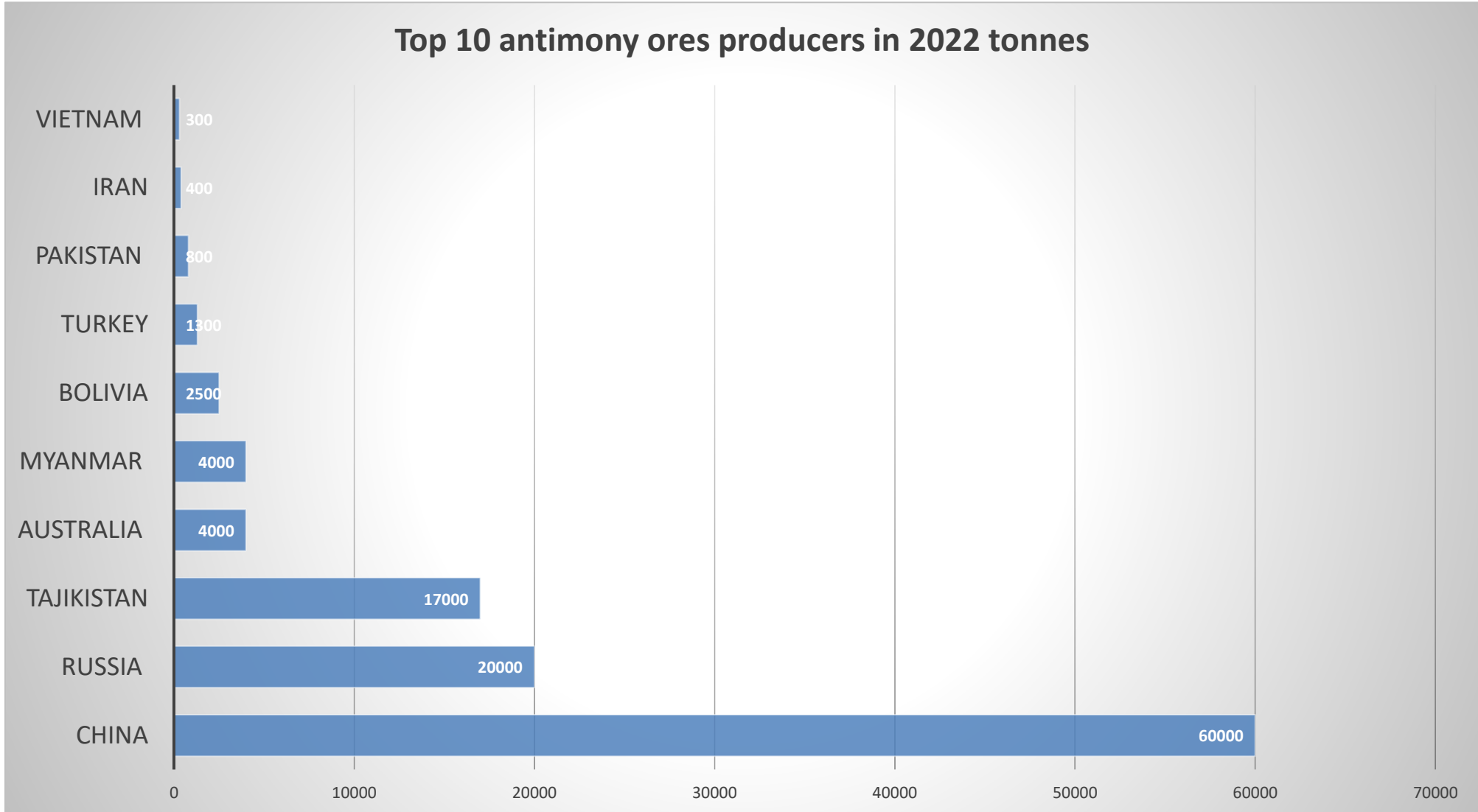
- As an alloy to harden lead and tin for uses in lead-acid batteries, bullets, cable coverings and machine bearings
- As a fire retardant in paints, plastics, rubber and textiles
- In semiconductor technology, diodes and infrared detectors.

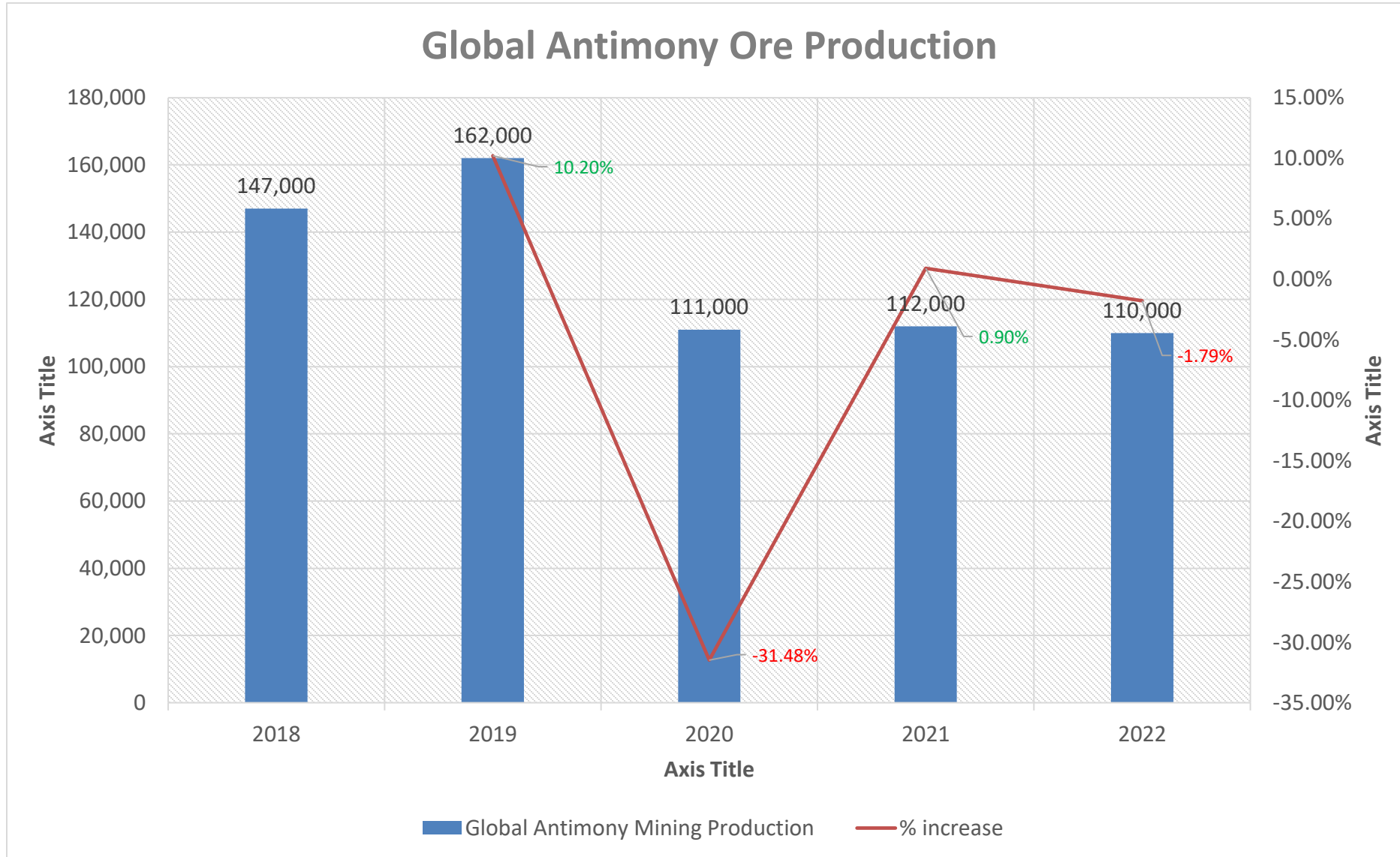
New and emerging uses of Antimony

Decarbonisation uses: Solar PV panel glass manufacturing, solar cells, long duration liquid metal batteries (Ambri), enabling electronic circuitry.

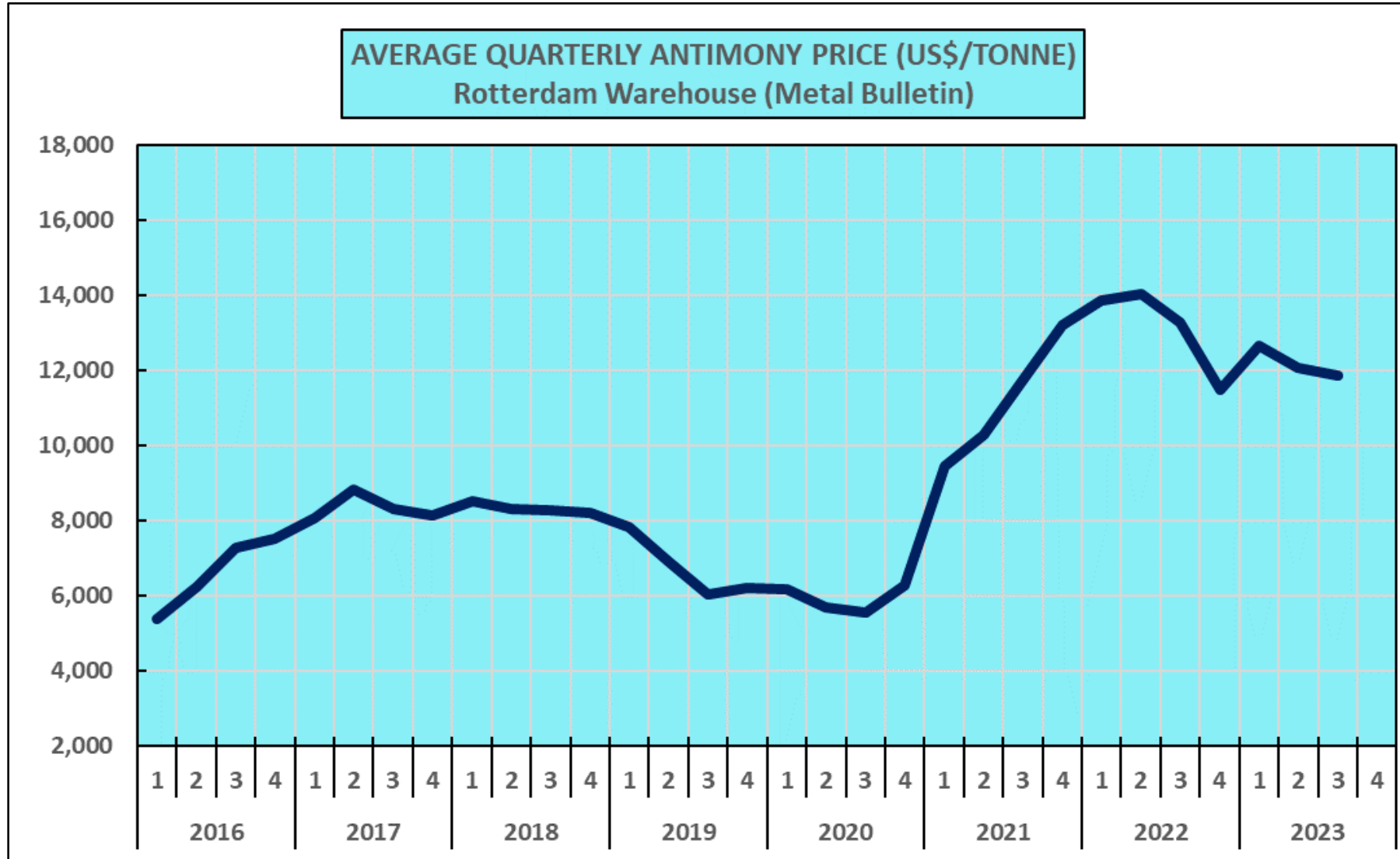
Defence uses: armour piercing bullets, night vision goggles, infrared sensors, precision optics, laser sighting, explosive formulations, hardened lead for bullets and shrapnel, ammunition primers, tracer ammunition, tritium production, flares, military clothing, and communication equipment.

ANTIMONY





ANTIMONY



ANTIMONY

ANTIMONY KEY THEMES

1. The antimony industry is influenced by the interplay of global economic recovery, growing applications in emerging sectors, and the impact of events like the pandemic.
 - Antimony ore resources are unevenly distributed globally
 - Governments exercise strict control and management over the extraction and export
 - Political turmoil may lead to interruptions in the local production and export of antimony ore.
2. Supply and Demand currently in balance
 - COVID shutdowns in China impacted supply
 - Slowing global economic growth has resulted in falling demand, which balanced the fall in supply
2. Demand predicted to be soft in the short term but likely to experience growth in the long term
 - Traditional demand (fire-retardant, lead-acid batteries etc) continues to soften as global economic growth slows
 - New application in the renewable energy sector has strong potential to drive long term growth
3. Antimony prices will likely see a steady and slow decline through mid-2024 before recovering
4. Existing smelters will increasingly compete for reliable supply of antimony
5. As with gold, the ethical supply of antimony is likely to be an important factor for end users in advanced economies

NAGAMBIE JOINT VENTURE



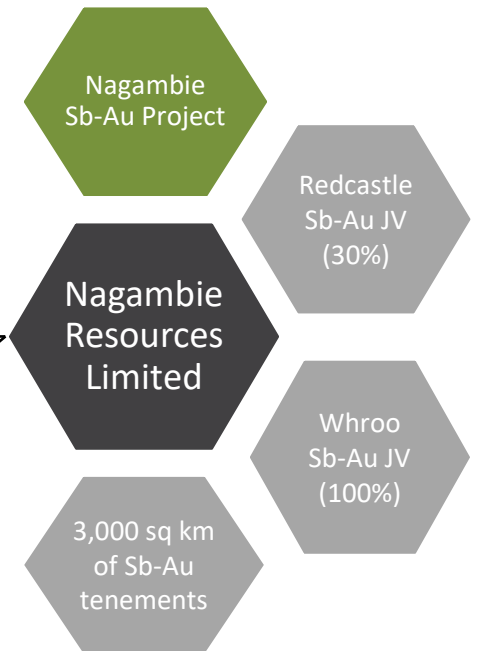
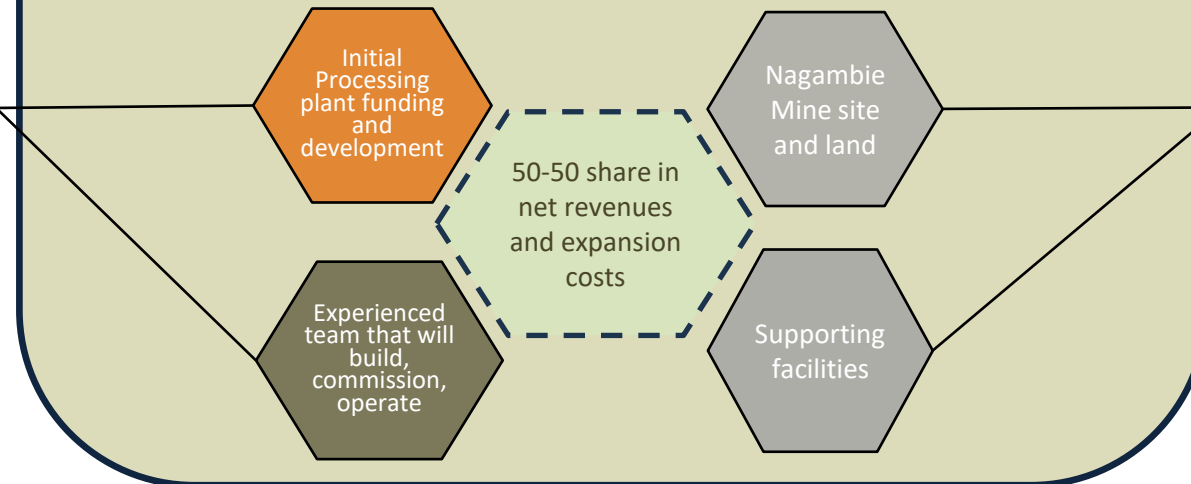
Golden Camel Mining Pty Ltd



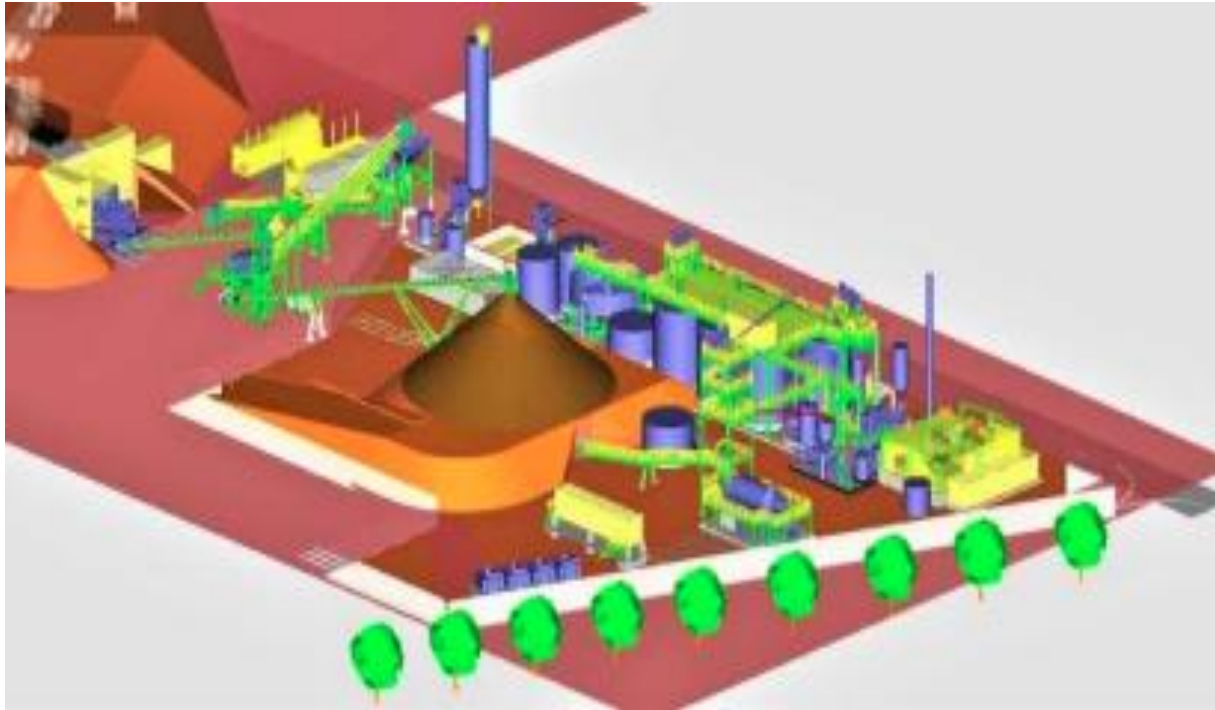
NAGAMBIE JOINT VENTURE (NJJV)

The NJJV was formed to develop a Central Processing Hub at the Nagambie Mine site, with:

1. Sb-Au Processing Plant and tube cell tailings storage facility
2. Renewable energy hub (biogas and solar)
3. Microbial bioleaching research



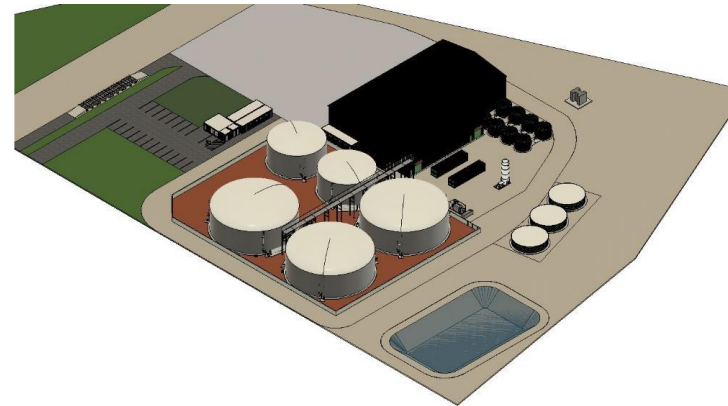
Processing Plant



Stage 1 – Oxide CIL plant

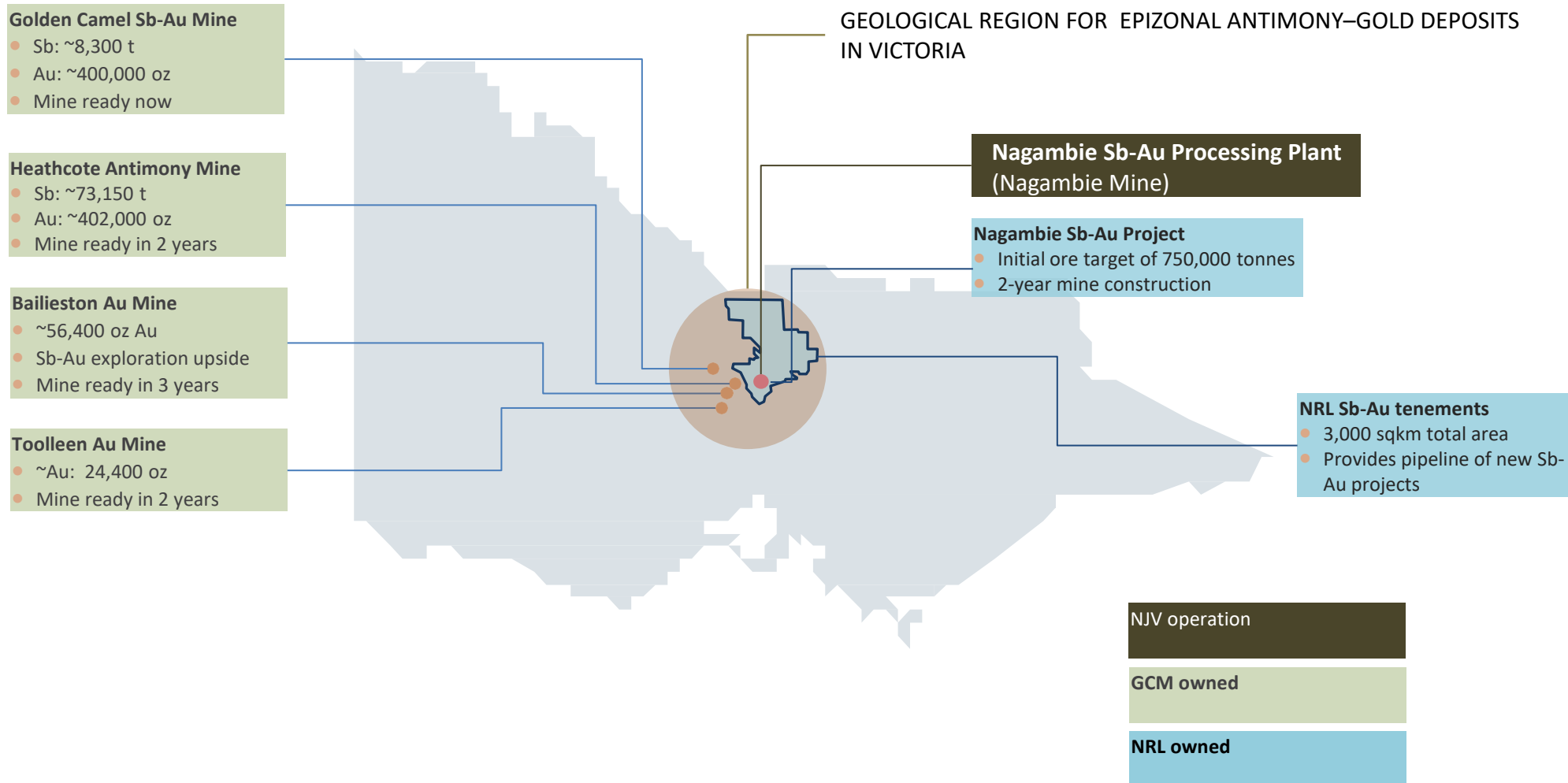
Stage 2 – Addition of a hydrometallurgical plant

Renewable energy hub



- RENEWABLE POWER**
- FERTILIZER / COMPOST**
- GREEN WASTE REUSE**
- ENRICHED DIGESTATE FOR PRODUCTION OF SOIL FOR TAILS**
- COMPRESSED GAS**
- CARBON ABATEMENT THROUGH INJECTION INTO TAILS**
- BATTERY STORAGE**

ORE SOURCES FOR PROCESSING PLANT



Unique proposition

- A new long-term supply
 - GCM’s mines will provide first ores for processing
 - Ores from NRL’s Sb-Au Project are targeted to be processed in the medium term
 - Likely to unlock numerous other (third party owned) ore deposits
- GCM and NRL are promoting this unique proposition to refiners and antimony end users

“No other group globally can develop a new long-term ‘green’ supply of antimony from a Tier 1 jurisdiction, that is de-risked through associated gold production and renewable energy generation”

MINERALISED ORE BIOLEACHING PROJECT

Stage	Status
Stage 1	Completed
	Federal Government's Innovation Connection Program grant \$50,000 Working with a Perth-based laboratory
	Outcome: Identified that both native and externally sourced bacteria were able to leach gold when suitable conditions were provided
Stage 2	Larger scale column tests Well advanced
	Federal Government's Innovation Connection Program grant \$50,000 Perth-based laboratory contribution \$55,000
	<ul style="list-style-type: none"> • Column tests have been completed, • Samples of leachate and residue have been collected and are being analysed.
	The researchers expect to have results by December 2023 to determine the success of gold extraction
Next Stage (Stage 3)	Take to technology into the field and conduct small in-field trials

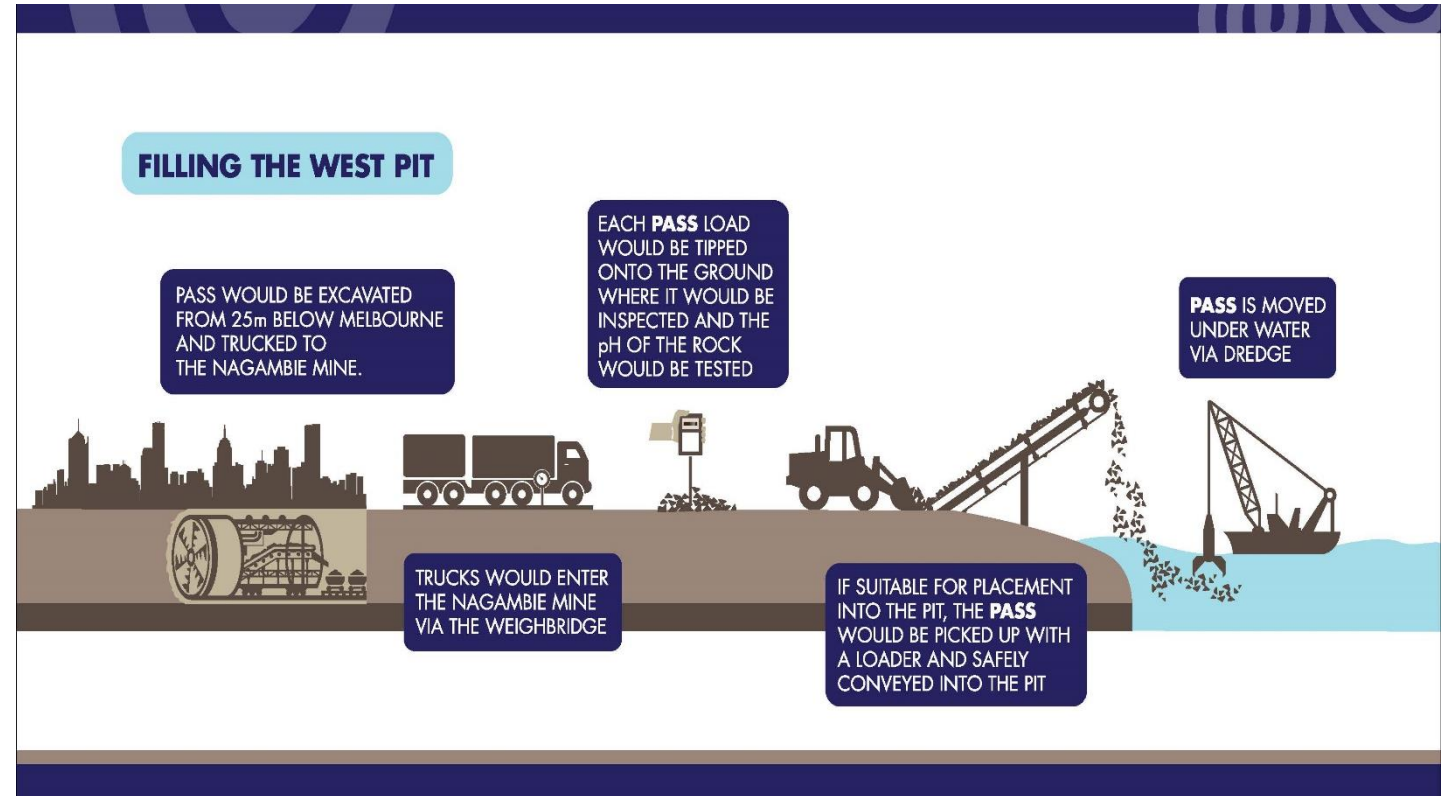


Stage 1: Shake flasks used for bioleaching experiment.

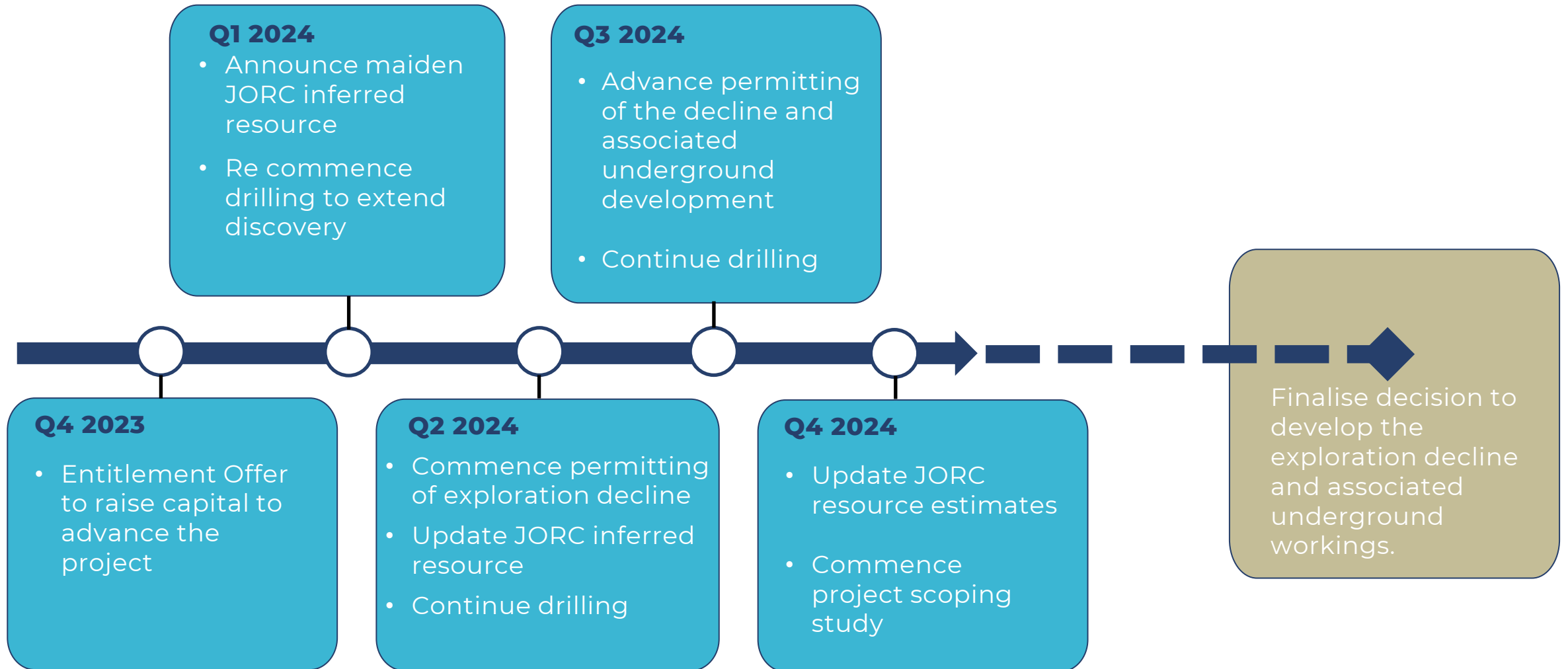
REALISING VALUE FROM NON GOLD ASSETS

PASS PROJECT

- NRL has an EPA-approved Environment Management Plan to store PASS in the legacy water-filled pits at the Nagambie Mine as part of the proposed rehabilitation of those pits.
- Best practice management of large volumes of wet PASS
- NRL is a PASS disposal bidder for the North East Link Project (tunnelling due to commence in mid 2024) and has bid for the Suburban Rail Loop East Project.



NEXT 12 MONTHS OBJECTIVES



CONTACT



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