



Exploring for world class discoveries in the **Yalgoo Region**

April 2022

ASX:TEM

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## Competent Persons Statement

The scientific and technical information contained within this Presentation is based on, and fairly represents information prepared by Mr Don Smith, a Competent Person who is a Member of the Australian Institute of Mining and Metallurgy (Ausimm) and Australian Institute of Geoscience (AIG). Mr Smith is the Managing Director of Tempest Minerals Ltd and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resource and Ore Reserves”. Mr Smith consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

# Corporate Overview



## Directors and Management



**BRIAN MOLLER**

**Non-executive Chairman**

Brian has been a partner at the legal firm HopgoodGanim for 30 years and leads the Corporate Advisory and Governance practice. Brian is the chair or a non-executive director of several ASX listed companies; and was critical in the progression of LSE listed SolGold PLC to becoming one of the largest copper gold developments in the world.



**DON SMITH**

**Managing Director**

Don Smith is a Geologist and entrepreneur who holds a Bachelor of Science from Newcastle University and an MBA from The Australian Institute of Business. With over 20 years in the mining industry, he has held roles in junior through to multinational firms on projects spanning 6 continents and numerous commodities. Don is involved with a number of private and publicly listed resource companies.



**ANDREW HAYTHORPE**

**Non-executive Director**

Andrew Haythorpe has 30 years experience in geology, funds management and has been a Director and Chairman of a number of TSX and ASX listed companies including Crescent Gold. Andrew has been involved in over A\$300 million of mergers, acquisitions and capital raisings. Currently he is a Managing Director of Goldcoz Ltd and Stunalara Metals Pty Ltd and chairman of Allup Silica Ltd.



**OWEN BURCHELL**

**Non-executive Director**

Owen Burchell is a Mining Engineer with 20 years of technical, operational and corporate experience including management positions at Rio Tinto, BHP and Barrick Gold through to numerous mining start-ups, closures and operational turnaround projects. Owen is Managing Director of imminent ASX IPO Abarta Resources Limited.

ASX Code

**TEM**

Share Price

**\$0.086**

Shares on Issue

**499m**

Market Cap

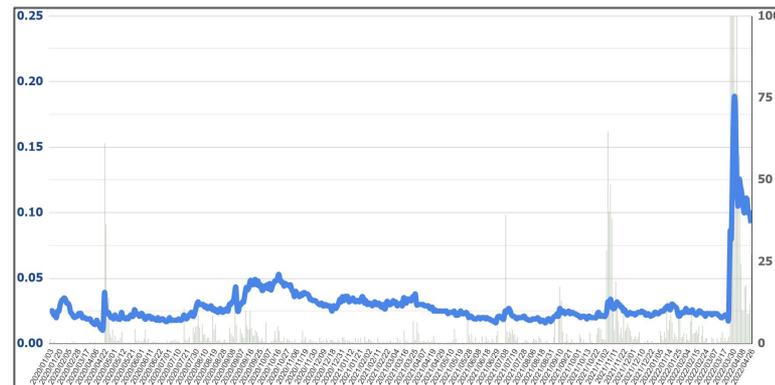
**\$42.9m**

Cash

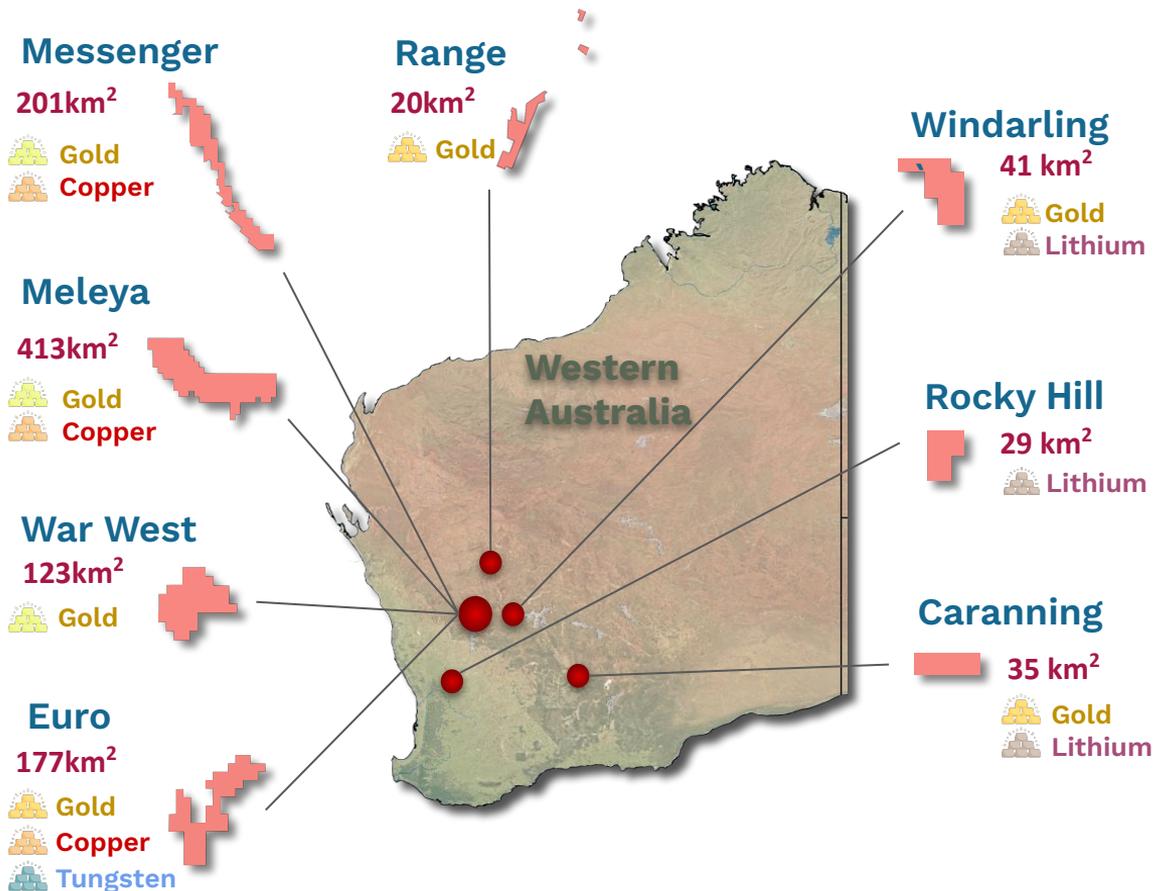
**\$8.5m**

Debt

**\$0m**



# Project Overview



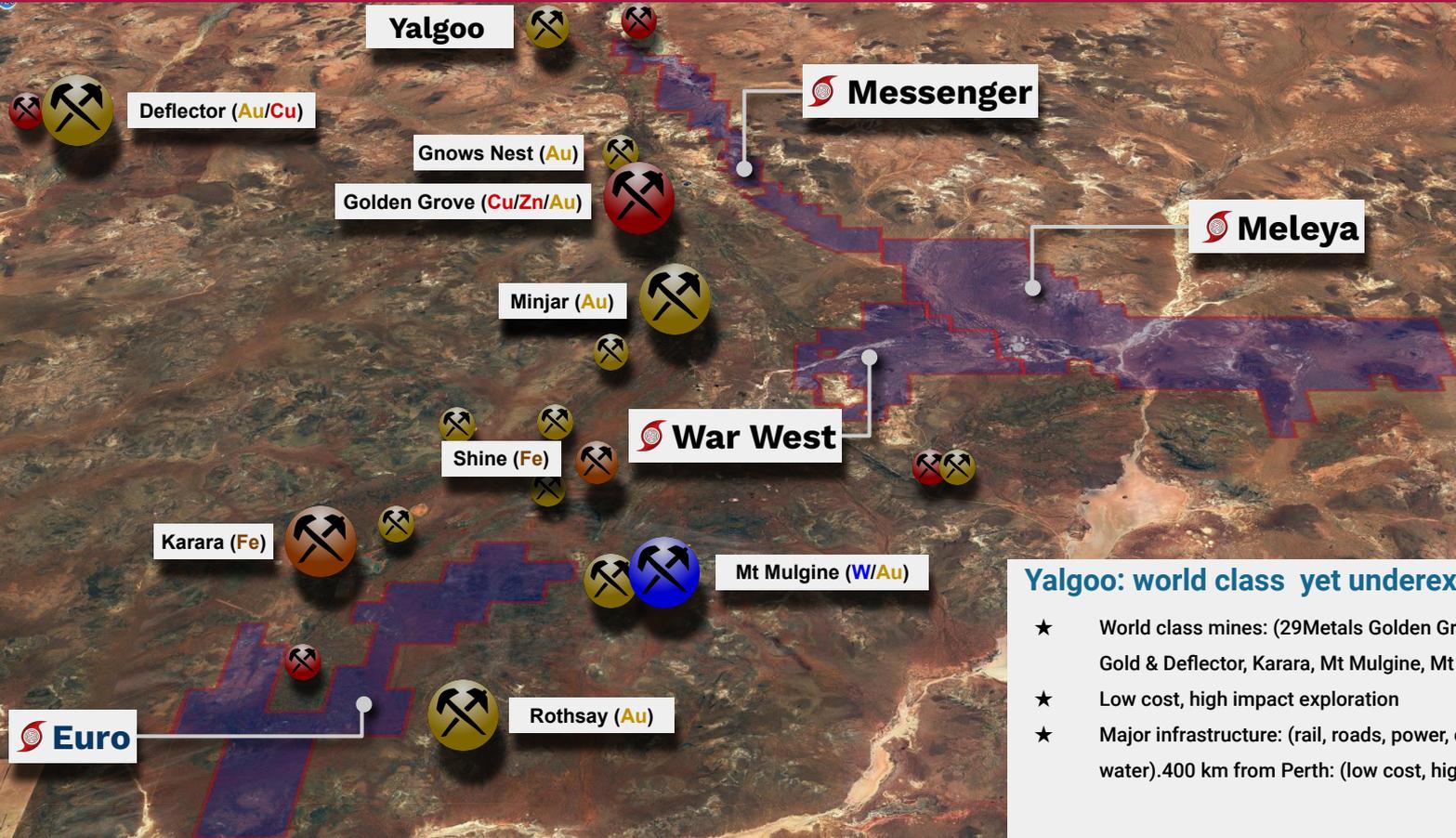
## Yalgoo Projects

- Contains the Messenger, Meleya, War West and Euro projects.
- ~900km<sup>2</sup> tenure across the 4 projects.
- Neighbouring operations include Golden Grove (ASX:29M), Yalgoo (ASX:GCY), Rothsay & Deflector Mines (ASX:SLR) and Minjar Gold Mine.
- **Euro Drilling Recently Completed**
- **Drilling at Meleya Recently Completed**

## Mt Magnet Projects

- Contains the Range Gold Project in a region with >6Moz past gold production.
- On the same gold trend as Westgold's 8Moz Cue Operations & Ramelius' 5Moz Magnet Operations.
- New geological modelling strengthens project potential.
- **Target zones to be tested in next 18 months**

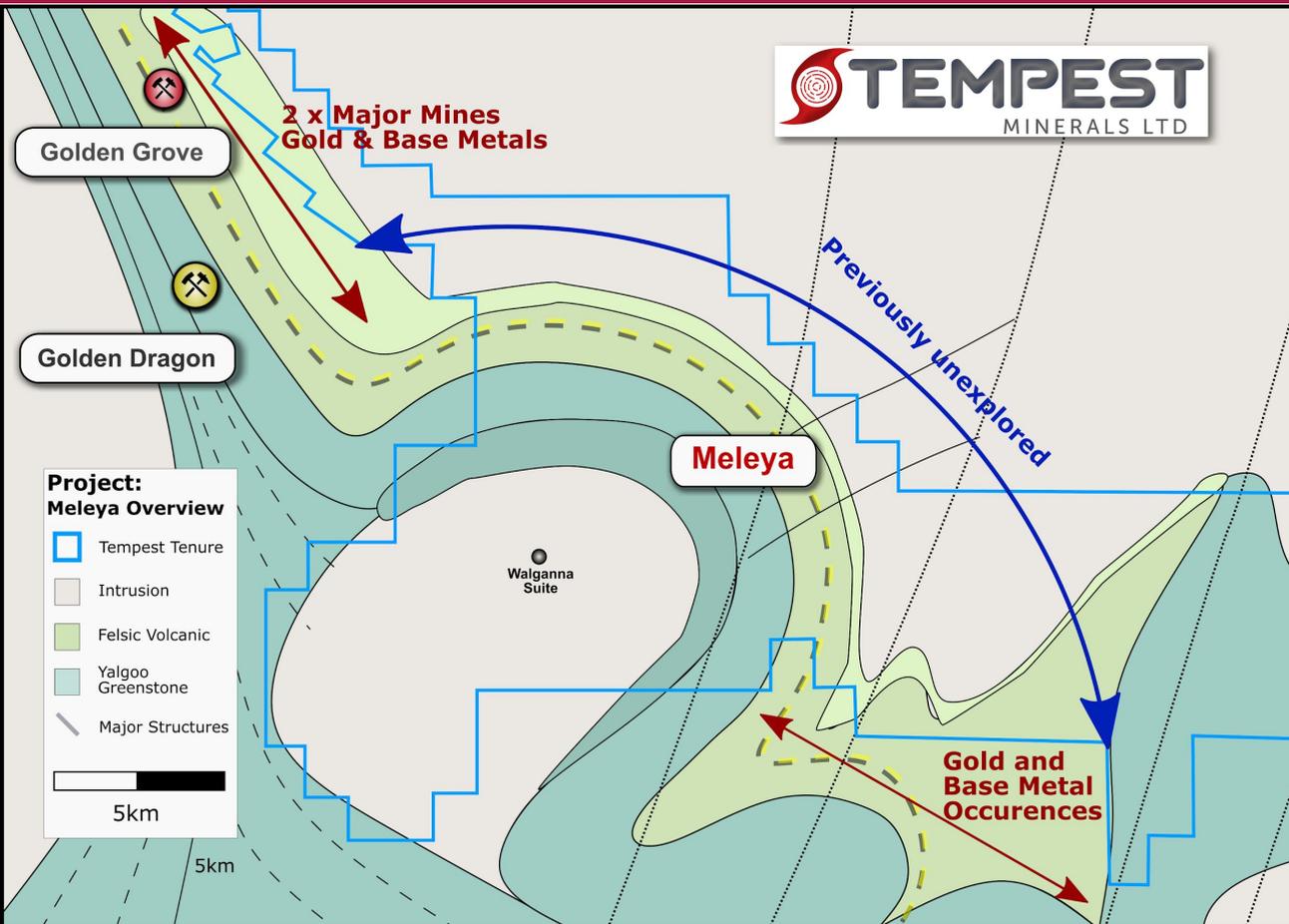
# Yalgoo Projects



## Yalgoo: world class yet underexplored

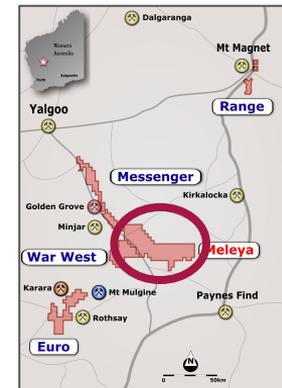
- ★ World class mines: (29Metals Golden Grove, Silverlake Rothsay Gold & Deflector, Karara, Mt Mulgine, Mt Gibson).
- ★ Low cost, high impact exploration
- ★ Major infrastructure: (rail, roads, power, communications, water).400 km from Perth: (low cost, high impact exploration).

# Meleya: A New Province



## Golden Grove Analogue

- 50+km of strike of previously unknown greenstone belt
- No previous leases and never explored
- Strong geophysical and geochemical signatures
- One of the most exciting exploration targets in Australia today



# Meleya: Solid Science = Results



## 2020

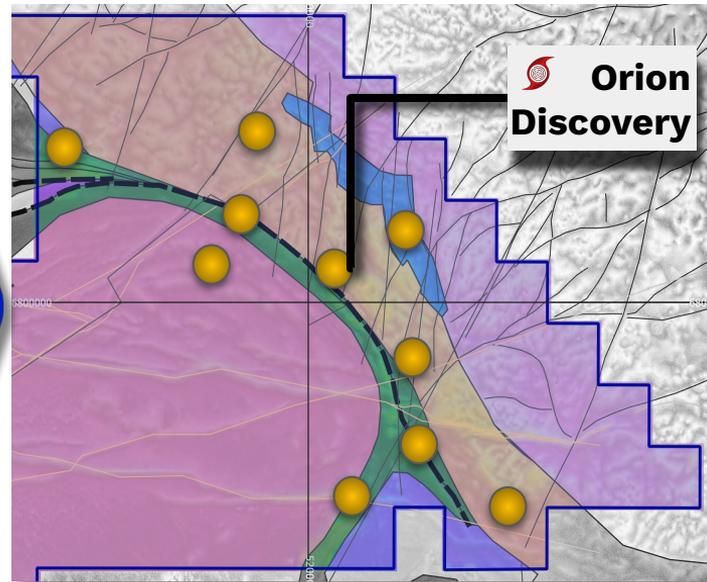
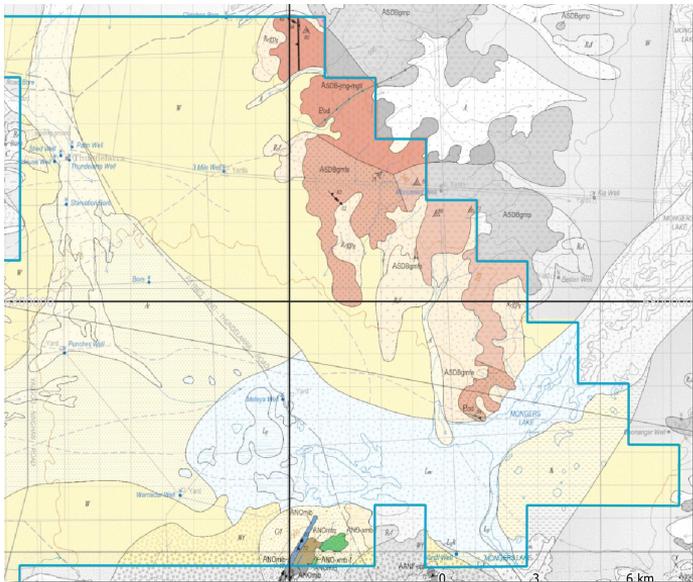
- Innovative TEM datasets
- Extensive regional geochemistry and mapping confirm prospectivity

## 2021

- Ongoing data analyses and modelling
- Numerous drill targets identified
- Drill approval and planning in progress

## 2022

- Ongoing fieldwork
- First drilling campaign for the region
- Discovery of mineralisation at Orion Target
- Geophysics and further drilling to come in 2022





## First drilling at Meleya hits mineralisation

- Tempest drilled first holes into the Meleya Project
- 2 x deep co-funded by government EIS program
- Widespread mineralisation observed

\*visual estimates - refer ASX releases dated 28 March and 4 April 2022

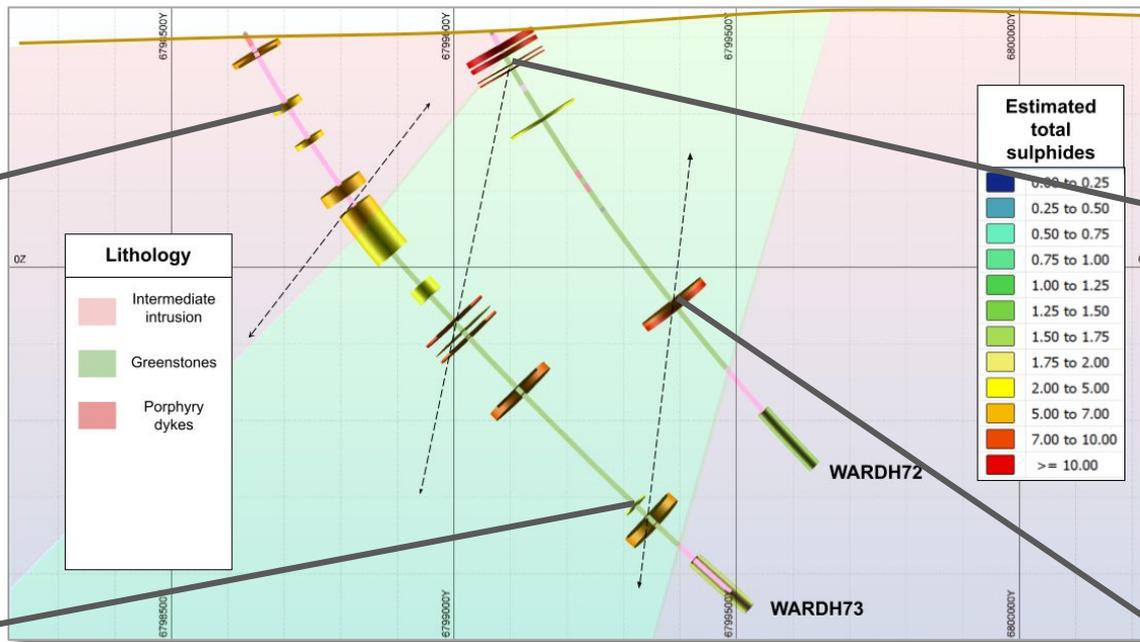
### First hole (WARDH72)

- ★ 709m depth
- ★ **~8 metres** magnetite +/- sulphides from 18 metres
- ★ **~10 metres** of semi-massive sulphides (primarily pyrrhotite and chalcopyrite) from 422 metres; and
- ★ **~18 metres** disseminated sulphide (pyrrhotite, pyrite, chalcopyrite) within a broader **~100 metre** strongly altered intrusives zone

### Second hole (WARDH73)

- ★ 1021m depth
- ★ **400m** strongly altered intrusives with widespread sulphides (chalcopyrite, pyrite and bornite)
- ★ **3 zones of magnetite +/- chalcopyrite** mineralisation from 466m (consistent with those observed in WARDH72)
- ★ **12m semi massive magnetite +/- sulphide** from 587m
- ★ **16m of disseminated sulphides** from 804m.

# Meleya: Recent Drilling - Extensive Mineralisation



## First drilling at Meleya hits mineralisation

- Multiple mineralisation zones - big system?
- Copper (+ other commodity potential)

# Euro: Historic Results -> Modern View

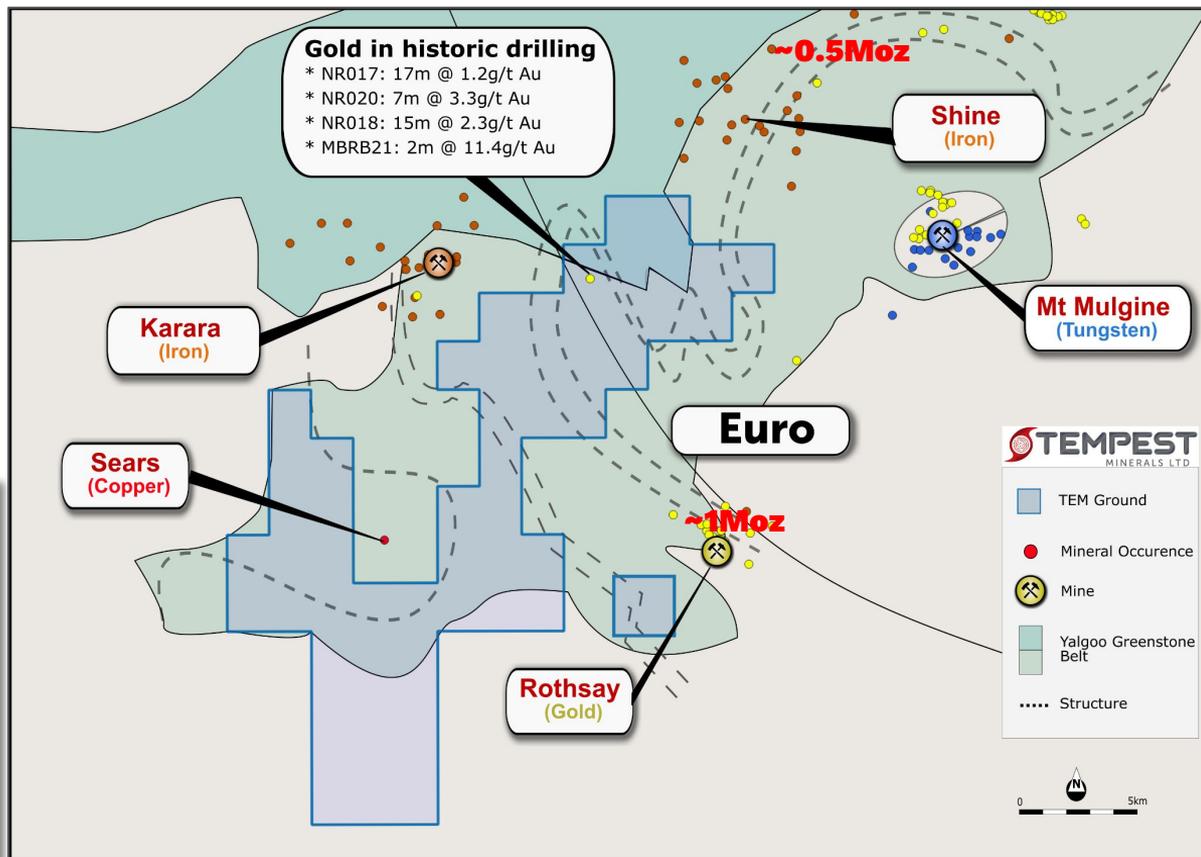
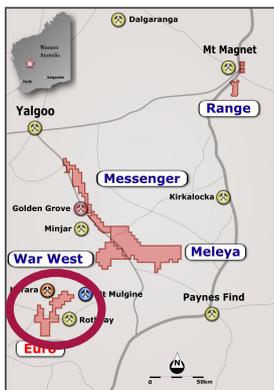


## A Forgotten Gem

- High grade intercepts drilled in 1990's and 2000's never followed up
- New geological understanding
- Significant historic drilling

HOLE ID	DEPTH	INTERVAL
NR017	20m	17m @ 1.2g/t
NR020	20m	8m @ 0.9g/t (including 5m @ 1.3g/t)
NR018	15m	15m @ 2.3 g/t (including 7m @ 3.4g/t)
MBRB21	0	2m @ 11.4 g/t

- ★ Recent drilling intercepted thick mineralisation and visible sulphide
- ★ New geological understanding highlights exciting potential

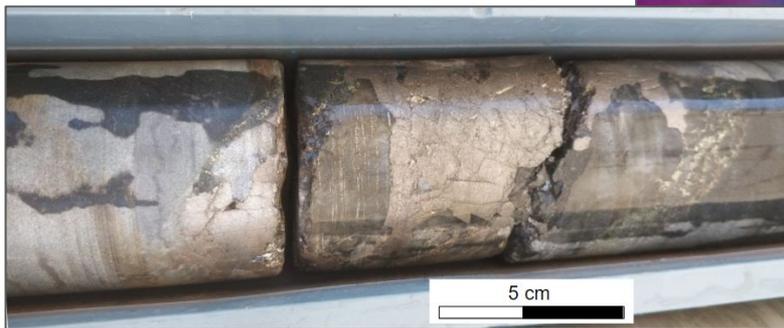
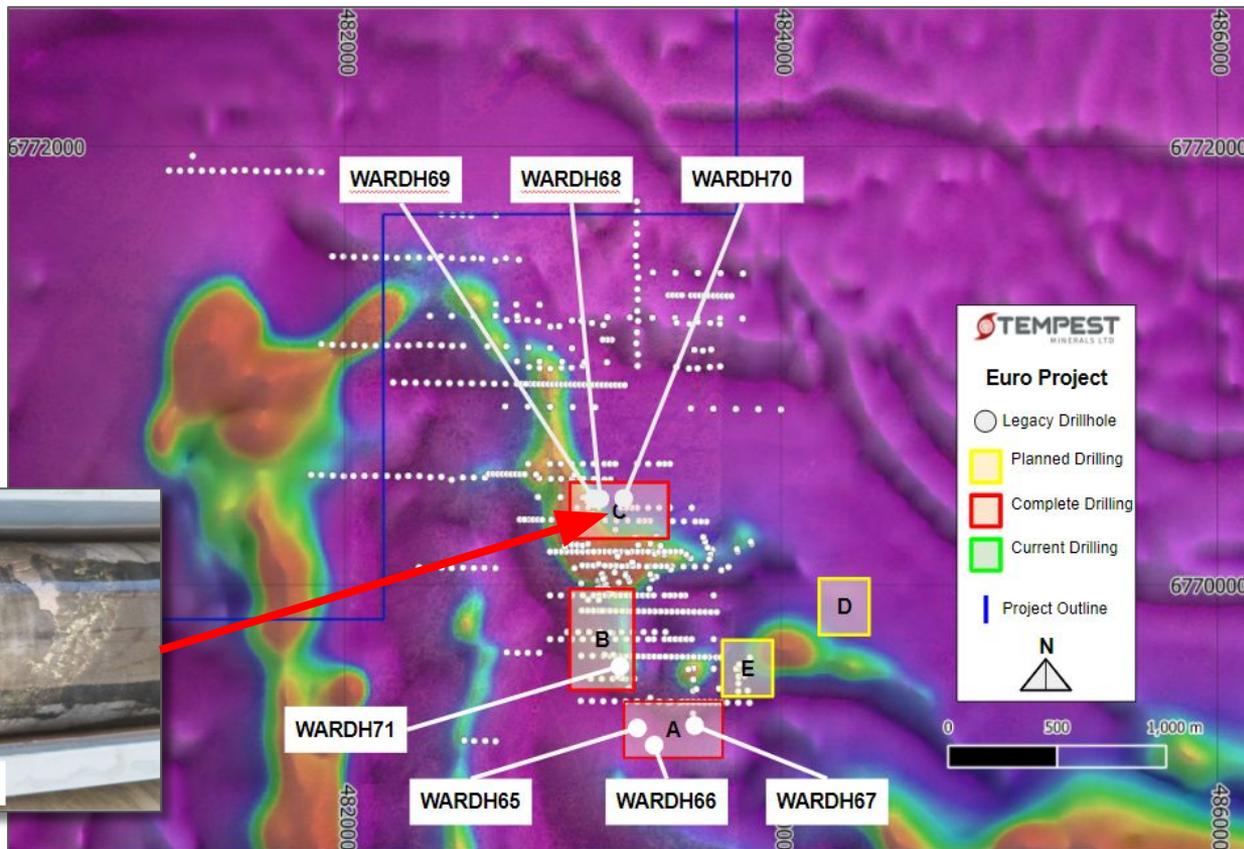


\* DMIRS WAMEX reports A48951, a65803



## Sulphides in recent drilling

- Sulphides visible in multiple holes including semi-massive zones
- Thick zones of alteration and mineralisation intersected in all holes to date
- Drilling to date aims to confirm historic drilling and extend known mineralisation
- Drilling extends zone of previously identified mineralisation
- Laboratory results due imminently



Pyrrhotite and chalcopyrite vein WARDH0068 (164.10m)

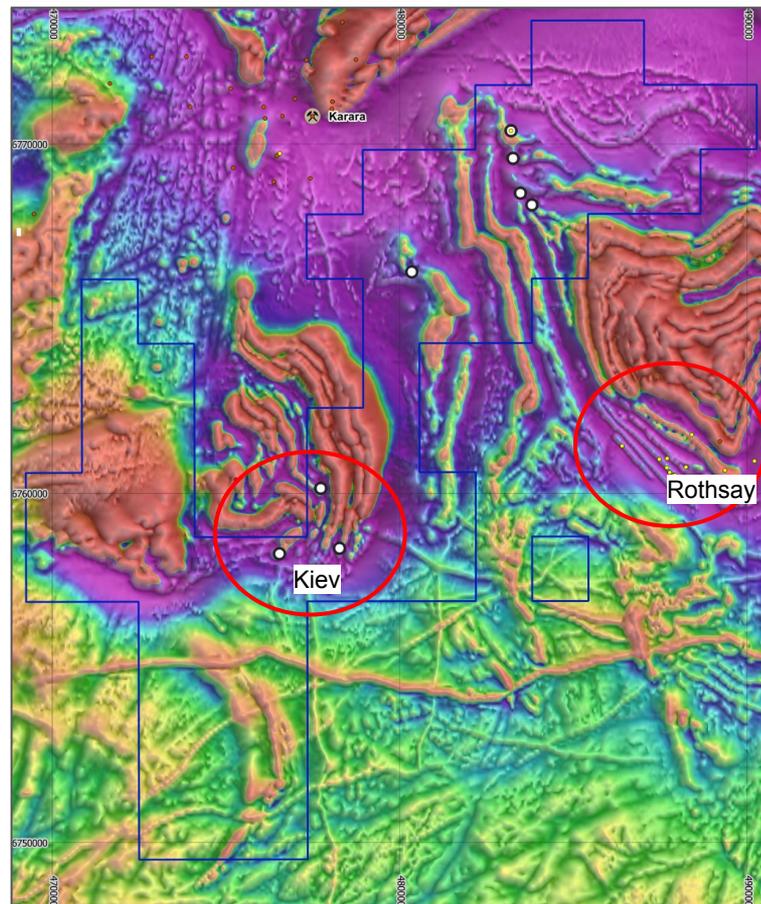


## Technology driven exploration

- New exploration targets generated from regional datasets exclusive to TEM
- New geological model emerging with huge potential
- Field work and surface sampling ongoing
- 10's of km strike extent

## Multi-commodity opportunities

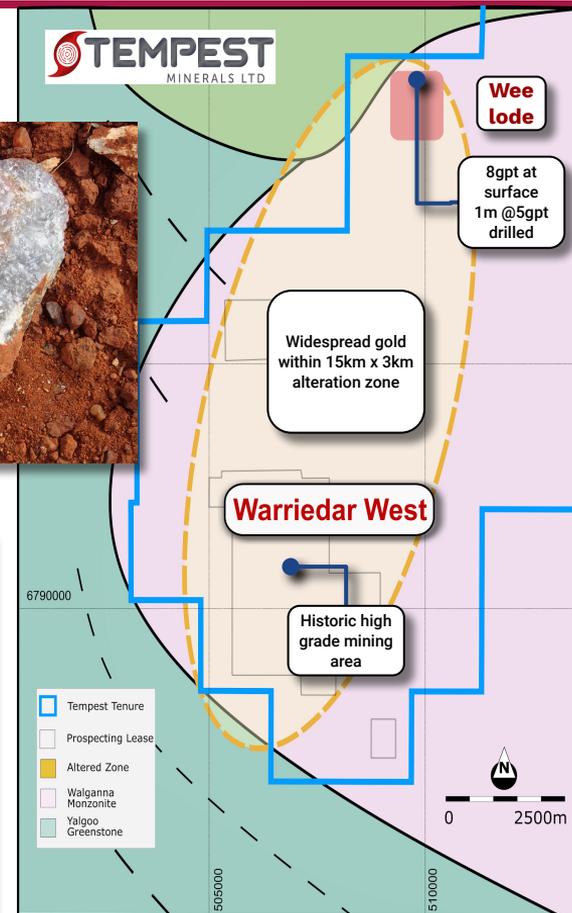
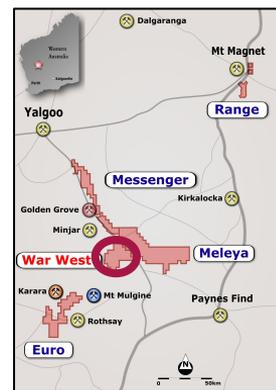
- Gold: Target similar size and style of magnetic anomaly to Rothsay Mine (~1 MOz Au)
- Iron formations discovered in field mapping
- Lithium noted in historic records





## Intrusive Related System

- Area of historic high grade alluvial nugget and vein gold production
- Multiple kilometre scale gold anomalies within 15km x 3km alteration zone
- Intrusive potential highlighted by DeGrey Mining (ASX:DEG) Hemi Discovery and Northern Star (ASX:NST) Pogo Mine.
- Further fieldwork and drilling planned in 2022



\* ASX release 15 Jan 2021 "Exploration Update - Further gold intersected at Warriedar"



## New Gold Model

- **Discovery:** IRG model proven by widespread shallow gold <18km from major processing facility
- **Discovery:** Gold bearing 'IRG' veins discovered at Wee Lode (2m @ 8gpt from surface and 1m @ 5gpt from 7m)
- **Discovery:** New shallow greenstone belt with same signature as nearby major mines

### Minjar

- Underutilised 0.8 Mtpa mill capacity

### Wee Lode

- Oxide gold and greenstone belt discovery

# Messenger: Unexplored Beside Majors

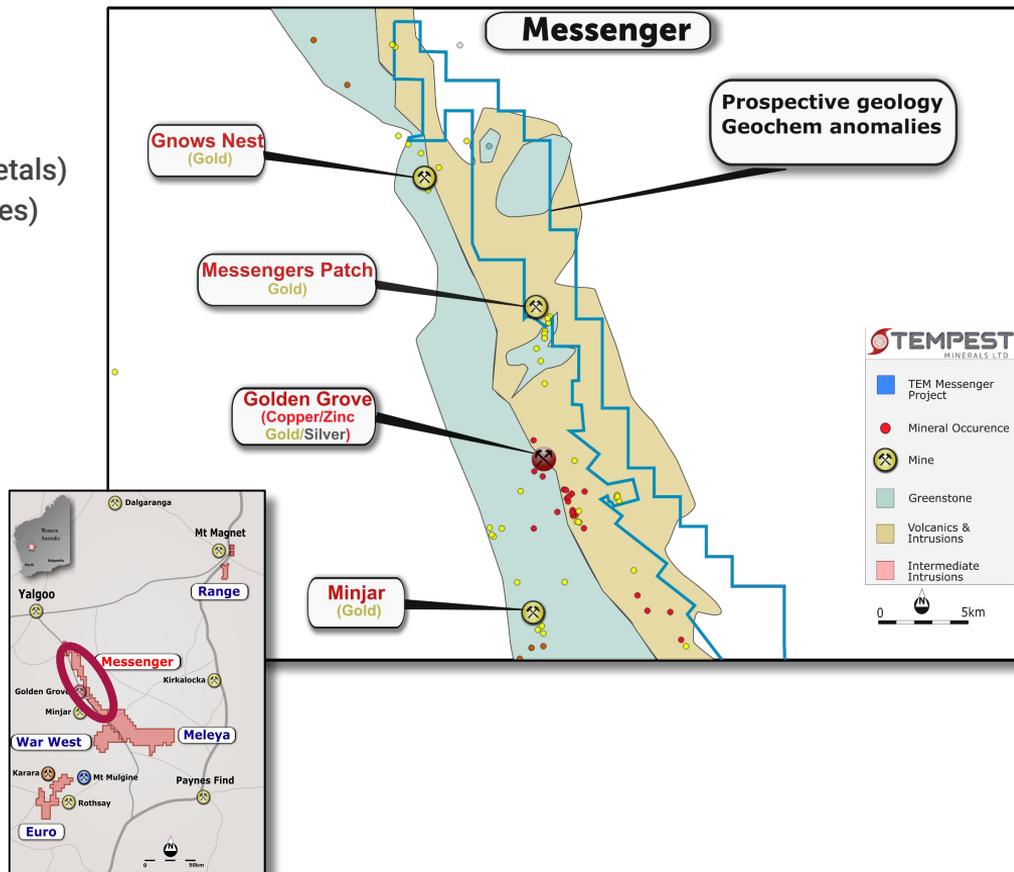


## Proximity

- Nearby mines:
  - Golden Grove gold and base metals mine (29 Metals)
  - Deflector gold-copper mine (SilverLake Resources)
  - Minjar gold mine (Jinan Hi-tech)
- Nearby exploration / discoveries
  - Gnows Nest (Emu Gold)
  - Yalgoo (Gascoyne Resources)
  - Golden Grove North (Venture Minerals)

## Untapped Potential

- 200km<sup>2</sup> unexplored high potential project
- Established gold and base metal geology
- Multiple targets



# Range: Part Of The Bigger Picture

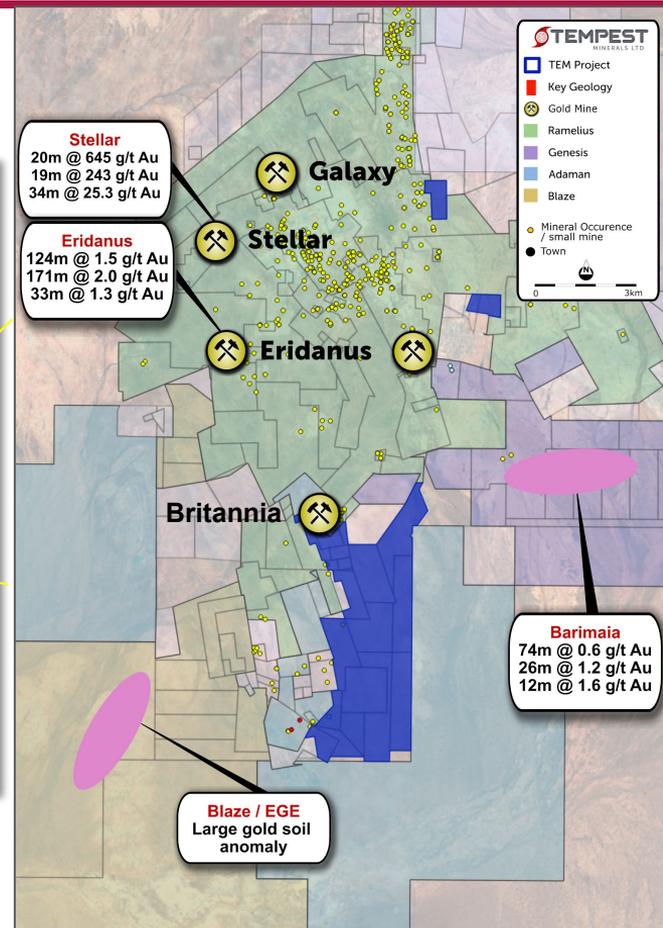
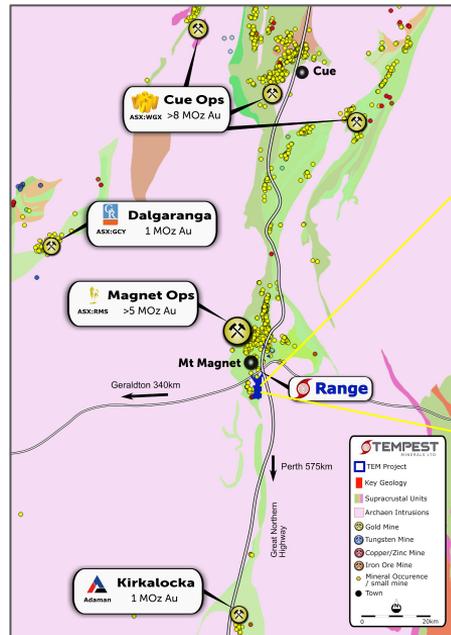


## World Class Location

- Prolific gold region - >6Moz historical production in Mount Magnet alone
- Adjacent success stories include:
  - Ramelius ASX:RMS
  - Genesis ASX:GMD
  - Westgold ASX:WGX
- Tenements adjacent to Ramelius' Mt Magnet operations to the north and west and Genesis to East

## Surrounded by Gold

- New geological models for the region include Intrusion Related Gold which further increases the prospectivity of the area.
- Undocumented historic workings along strike from Britannia open pit.
- Wide spread mineralized shears, intrusives and alteration confirmed in recent field work.
- **Target generation in progress with drill testing in 2022**

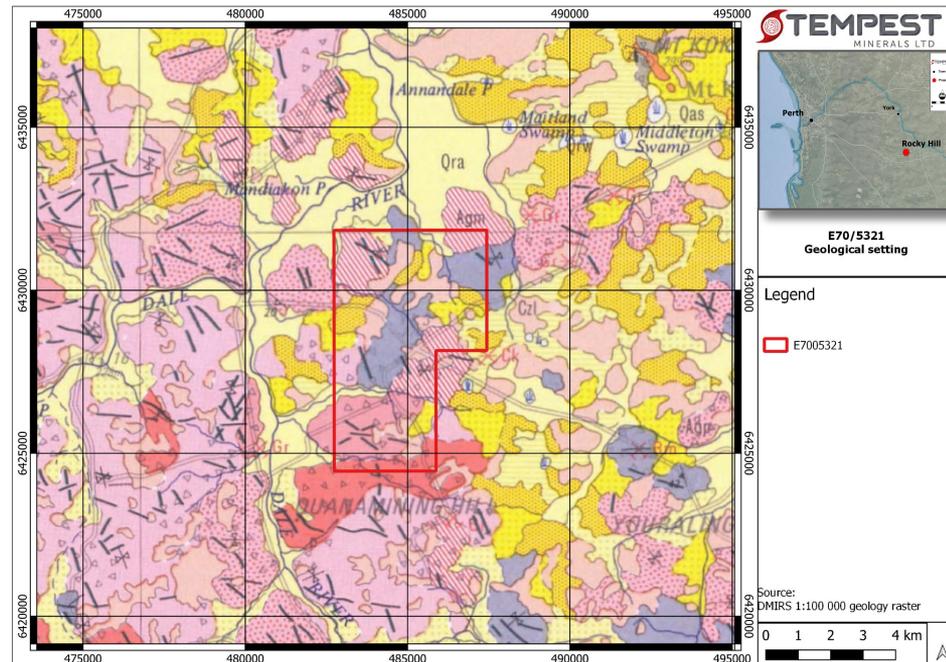


# Rocky Hill: New Lithium Exploration



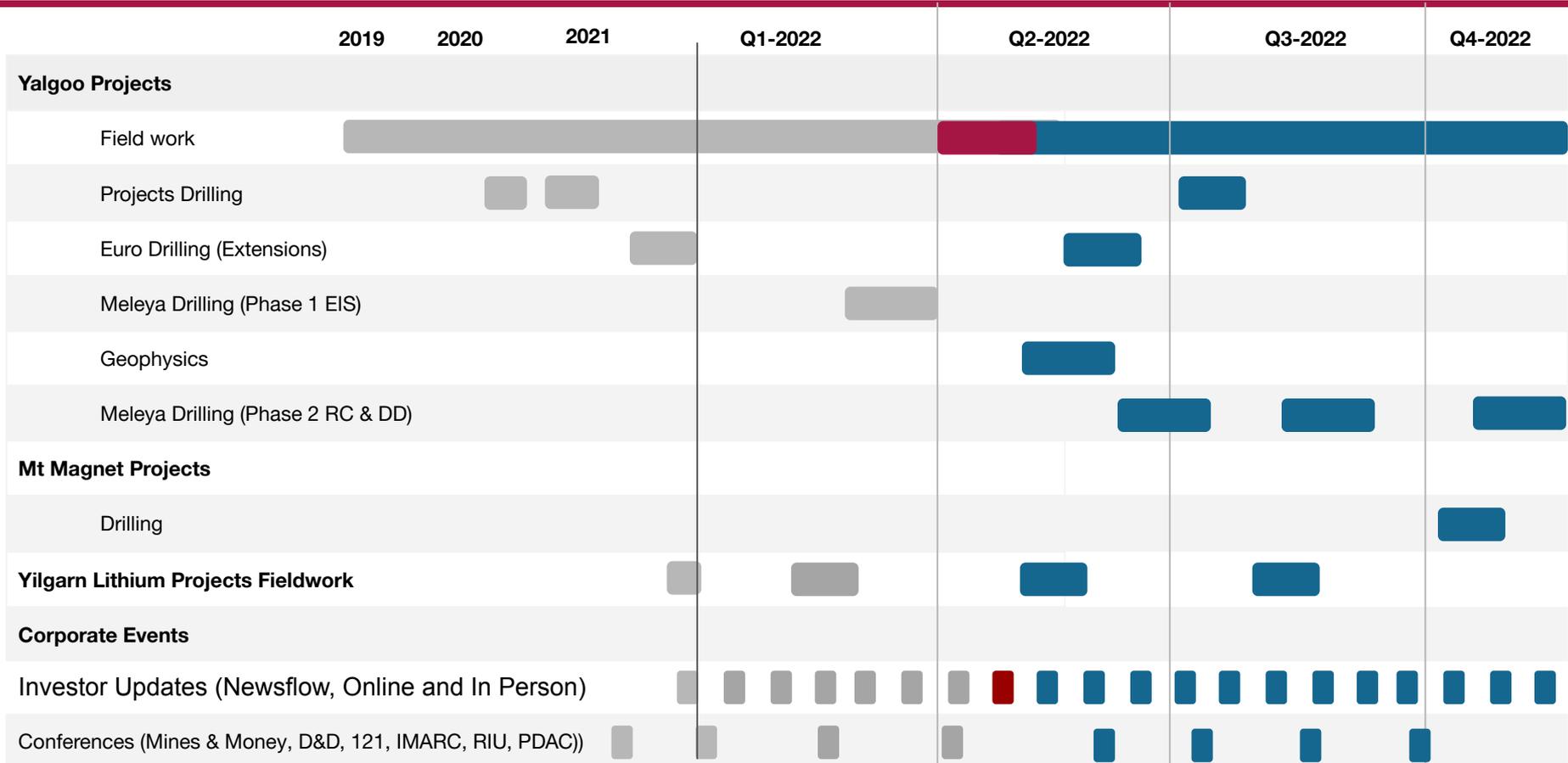
## Fieldwork commenced

- Reconnaissance fieldwork commenced
- Prospective for lithium and industrial commodities
- Surface sampling completed with surface samples taken for high sensitivity multi-element analysis
- Further work planned
  
- Part of the South West Terrane - current industry hotspot
- Part of the GSW Accelerated Geoscience Program



# Timeline

■ Completed
 ■ In progress
 ■ Planned





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