

# Discovering new mineral systems in Western NSW

2012 AGM – CEOs Presentation

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### Competent Person Statement

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Eoin Rothery, (MSc), who is a member of the Australian Institute of Geoscientists. Mr Rothery is a full time employee of Thomson Resources Ltd. Mr Rothery has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Rothery consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

## Project Portfolio

- Cobar Region – A good place to be – 6 operating mines (e.g. CBH's Endeavor, Glencore's CSA), 3 advanced projects (e.g. YTC's Hera, Peel's Mallee Bull)

- Thomson Targets:

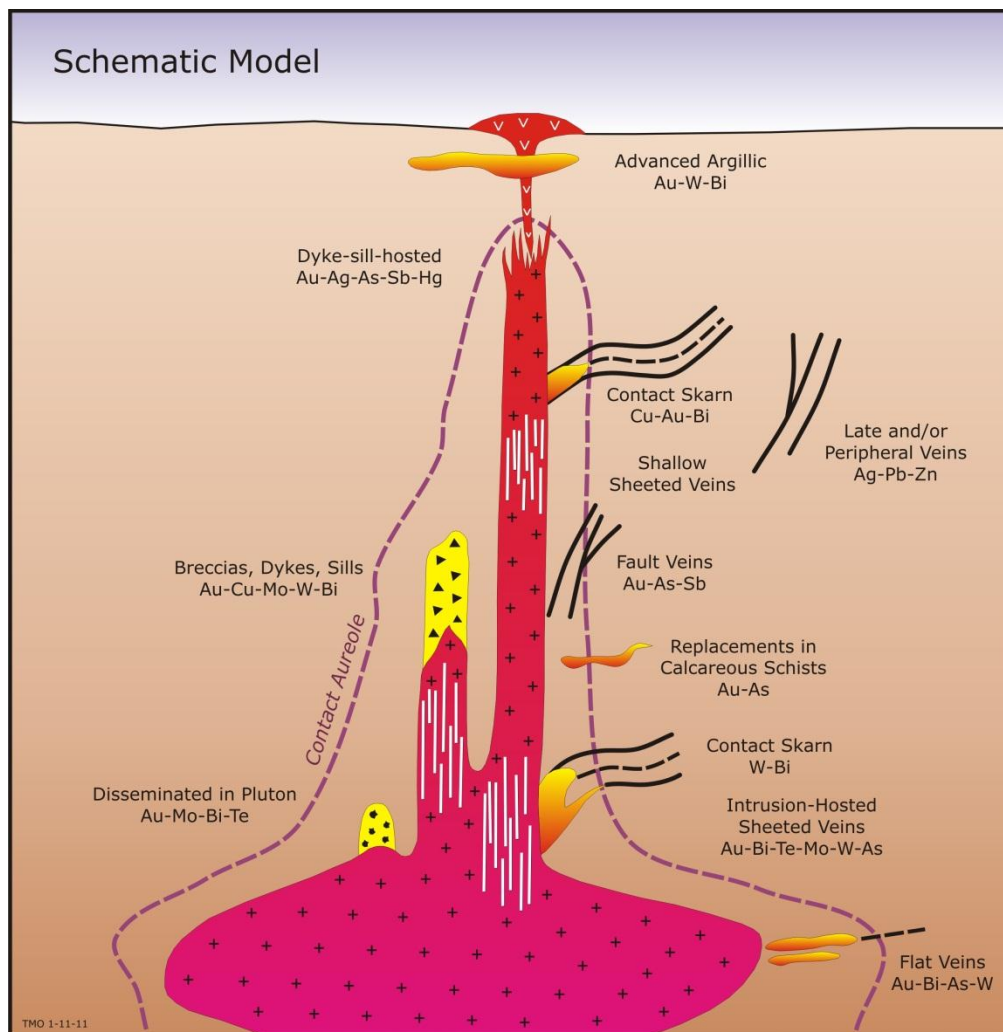
- Intrusive Related Gold in the Thomson Fold Belt
- Cobar-type
- Orogenic Gold, VMS – Byrock, Louth
- Porphyry Cu-Au - Warraweena





# Intrusion Related Gold Model

- New deposit model
- Pipe like geometry
- Has essential gold
- Associated with pathfinder elements - bismuth, tin, tungsten, arsenic, copper, lead, zinc, silver
- Sheeted vein systems; commonly in or above the intrusion roof



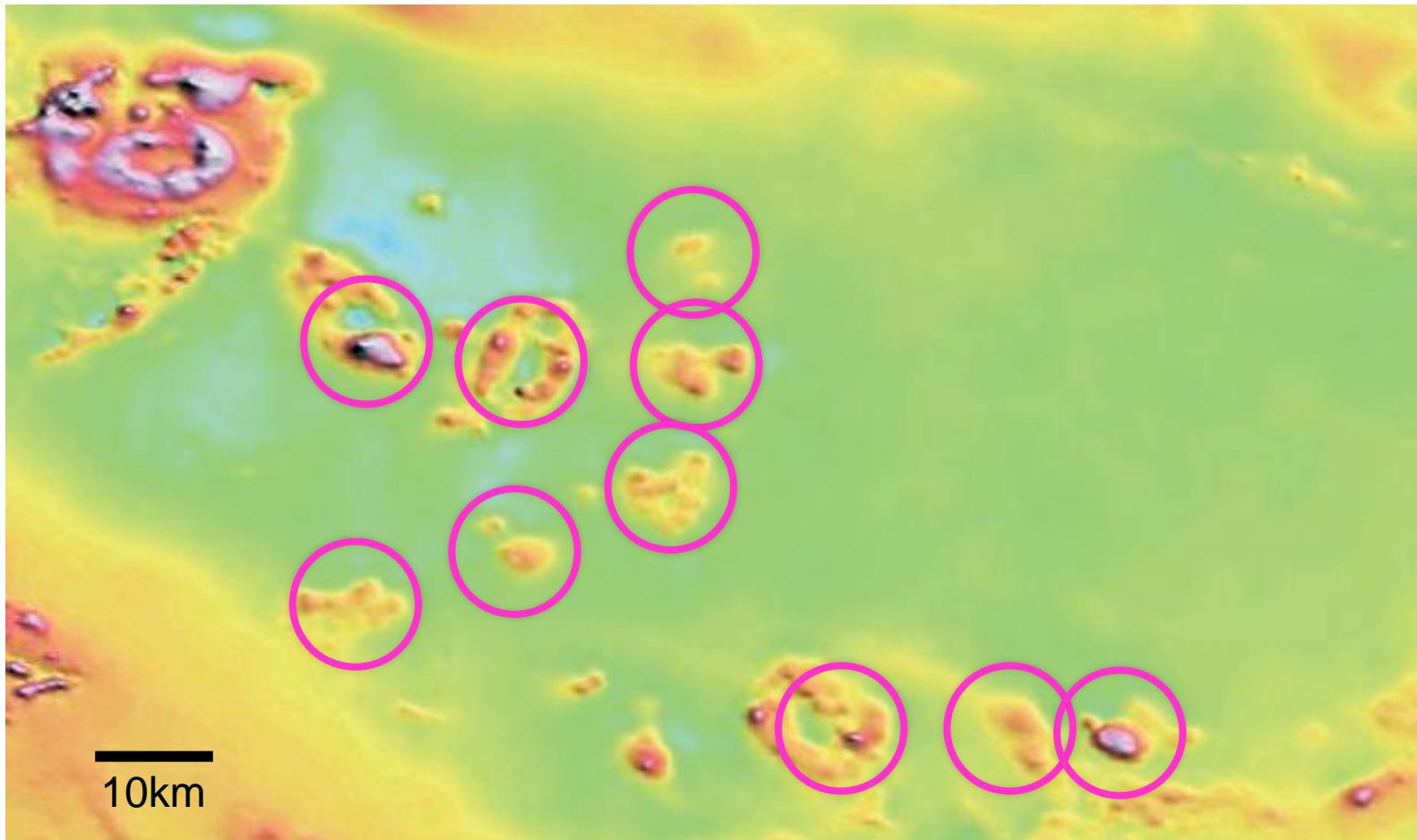


## Intrusion Related Gold Examples

- Alaska:
  - Donlin Creek – 23 million ozs gold
  - Pogo – 4.8 million ozs gold
  - Fort Knox – 4.1 million ozs gold
- Yukon:
  - Dublin Gulch – 3 million ozs gold
  - Red Mountain – 2 million ozs gold
  - Brewery Creek – 1.2 million ozs gold
- Queensland:
  - Kidston – 4.5 million ozs gold
  - Mt Leyshon – 3.2 million ozs gold

Sources: Baker et al. *Economic Geology* 2006; Thompson et al. *Min Deposita* 1999; Golden Predator website; Victoria Gold website.

## Magnetic Signature – Yukon

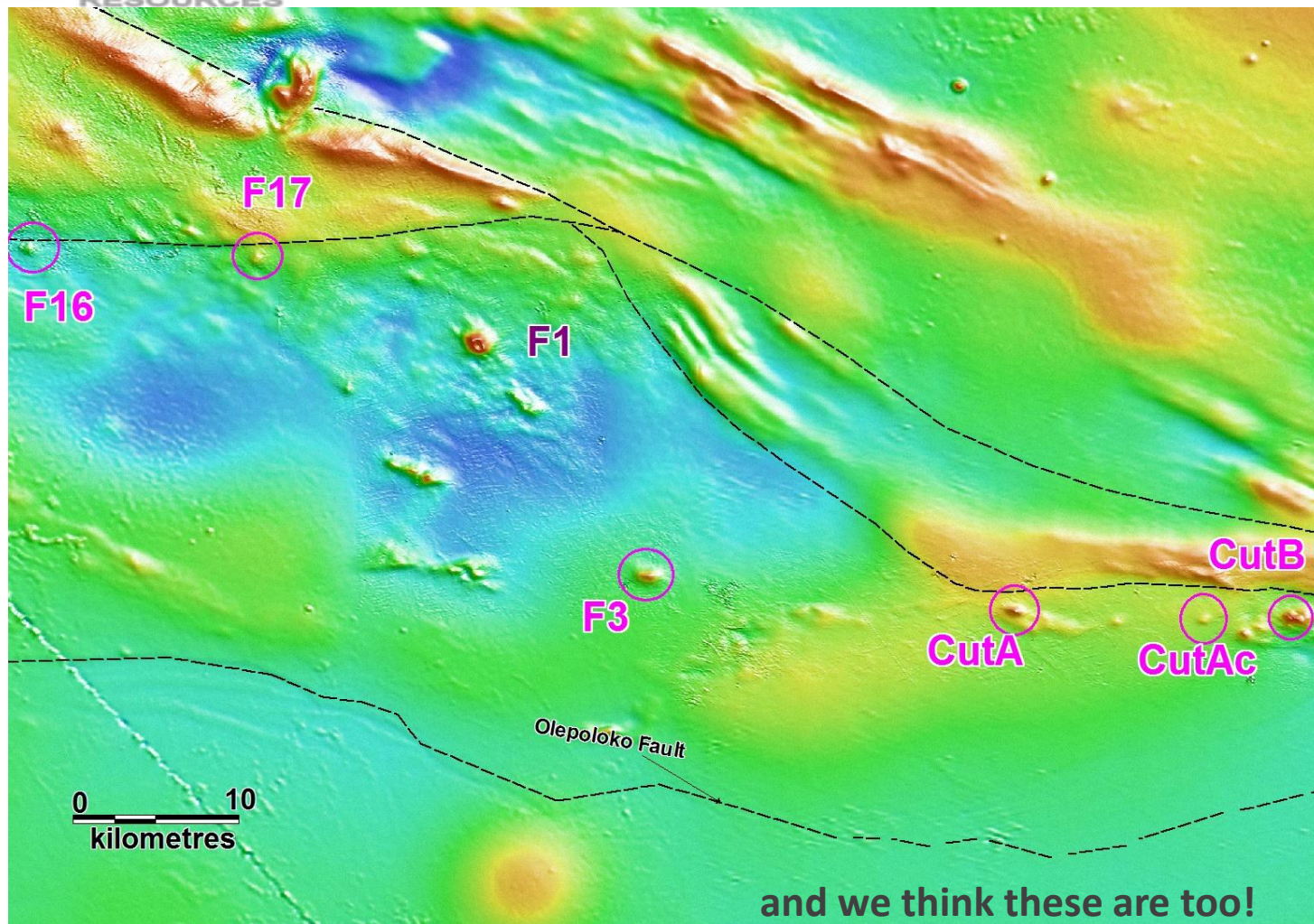


 = These are all IRG mineralised systems including two +1Moz Au





## Magnetic signature - Cuttaburra IRG Field





## Cuttaburra IRGs discovered

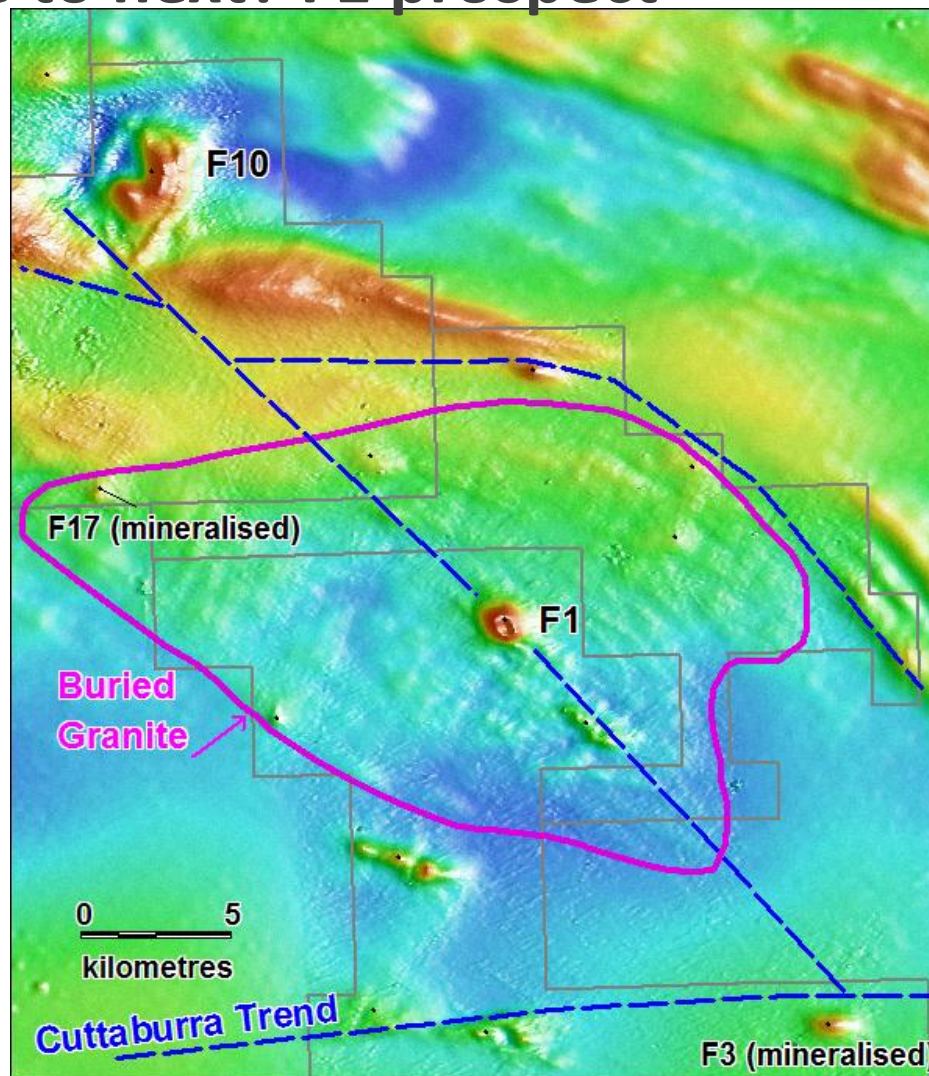
- New IRG mineral field discovered – six systems so far with just 9 effective drill holes
- All six bulls-eye magnetic anomalies drilled are large, mineralised hydrothermal systems
- “Ore grade” material found for the first time in 2011 (but deep at 400m)
- High grades of up to 3.7 g/t gold, 4% zinc, 113 g/t silver, 0.5% copper, 0.8% tin, 0.6% tungsten, 0.9% lead in initial drilling
- Shallower targets identified for follow up RC drilling





# Where to next? F1 prospect

- New deposit model – intrusion related gold (IRG)
- Possible large buried granite below F1
- Peripheral anomalies F3, F17 are mineralised
- F1 – Not yet drilled
  - Large, ring-type magnetic anomaly
  - Central position to buried intrusion
  - Linear alignment with F3 and F10
  - Shallow cover ~100m = RC target





# Thomson Resources

- Byrock JV – paid to explore
- New JVs in shallower parts of the Cobar Basin – little or no cover
- New area of interest to the south: Hera, Nymagee, Mallee Bull
- Achilles-Tooroonga Project:
  - Pb-Zn-Cu-Ag-Au intercept not yet followed up
  - On strike from Cobar-type deposit at Browns Reef
- Ghost rider Project:
  - Strong Pb in shallow drilling with new IP targets

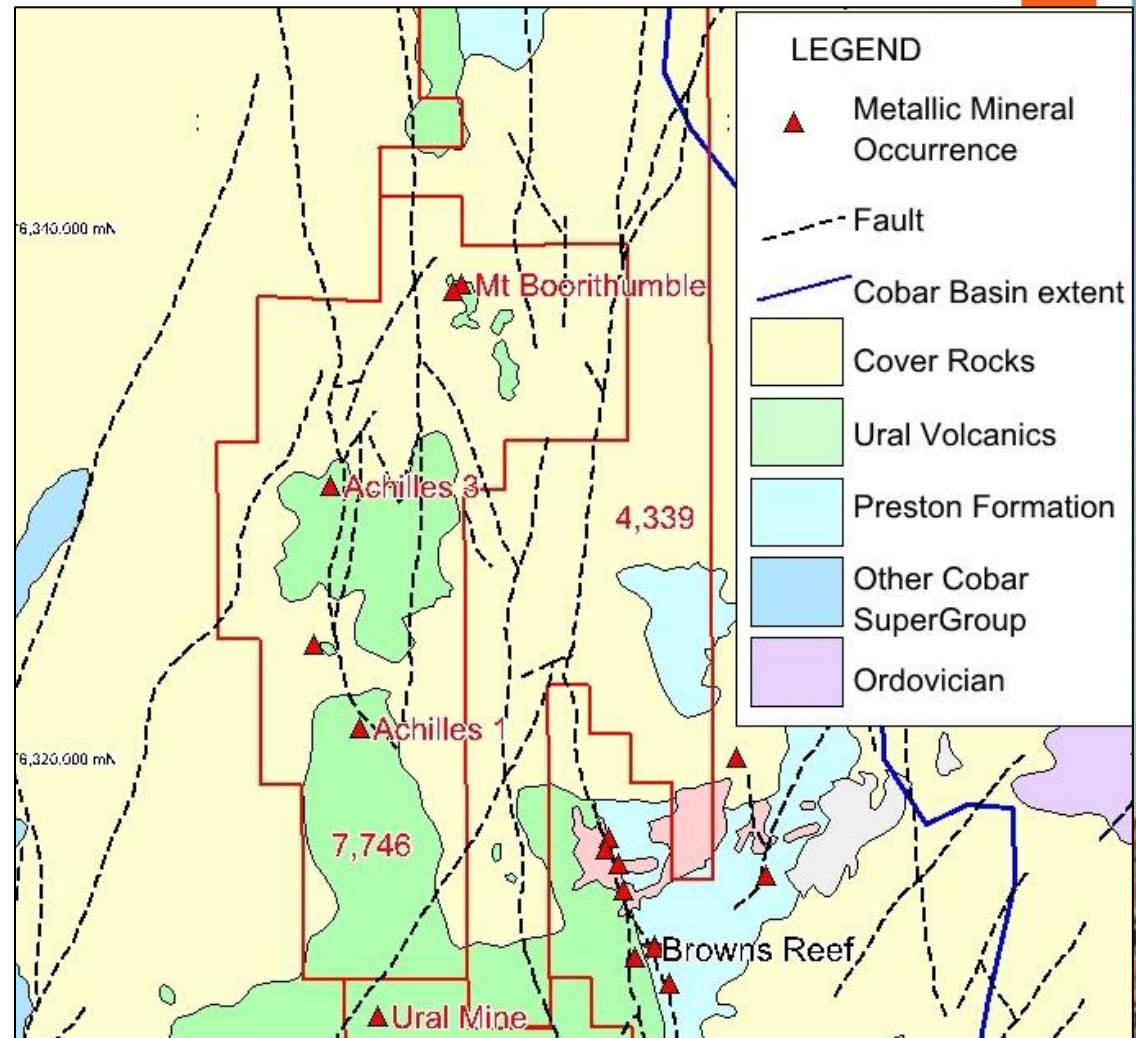






## Achilles Project

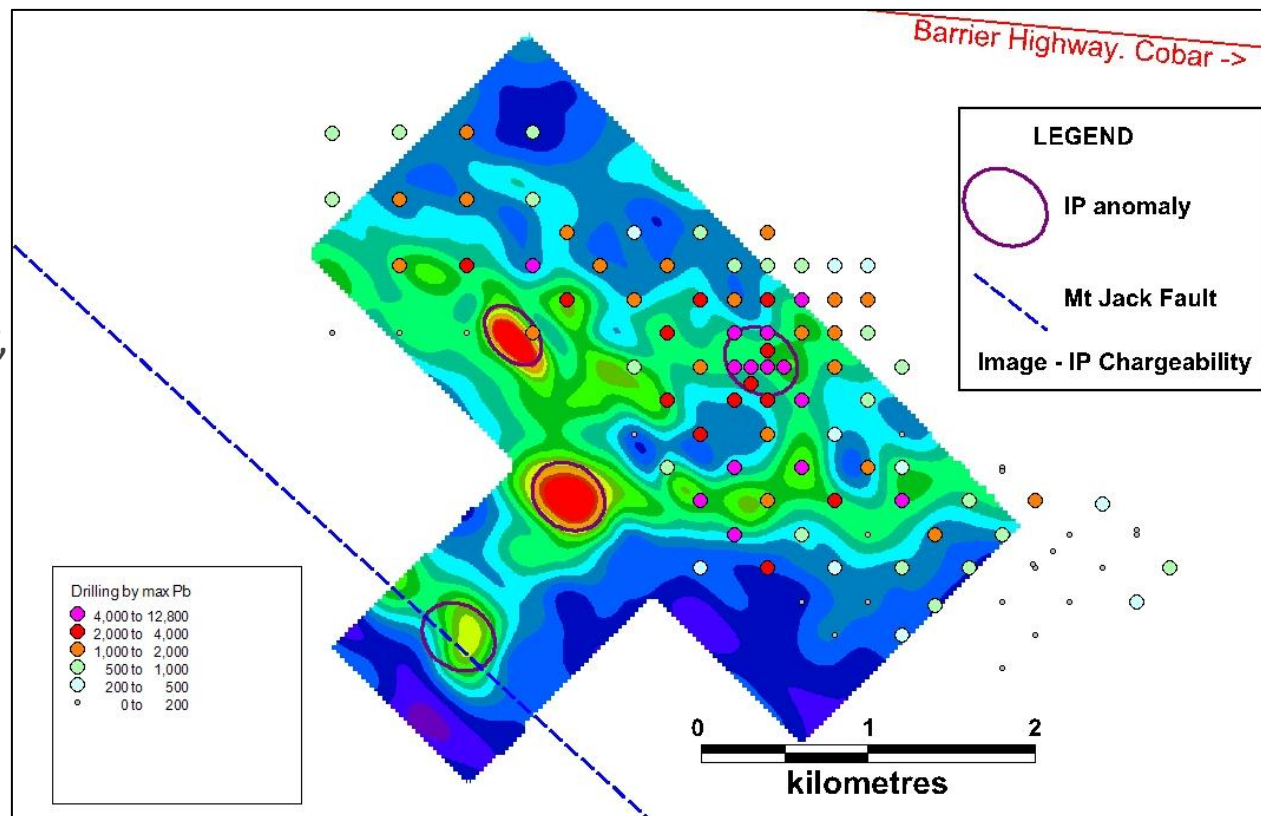
- Cobar Basin
- Browns Reef – significant deposit
- 80km south of Mallee Bull
- Mt Boorithumble – 1 deep hole: 3m at 2% Pb, 2% Zn, 1.2% Cu, 150 g/t Ag, 0.5 g/t Au from 117m depth
- Achilles 3 – 4m at 0.4% Pb, 0.1% Zn, 0.1% Cu from 4m depth
- EM surveys completed, results being interpreted





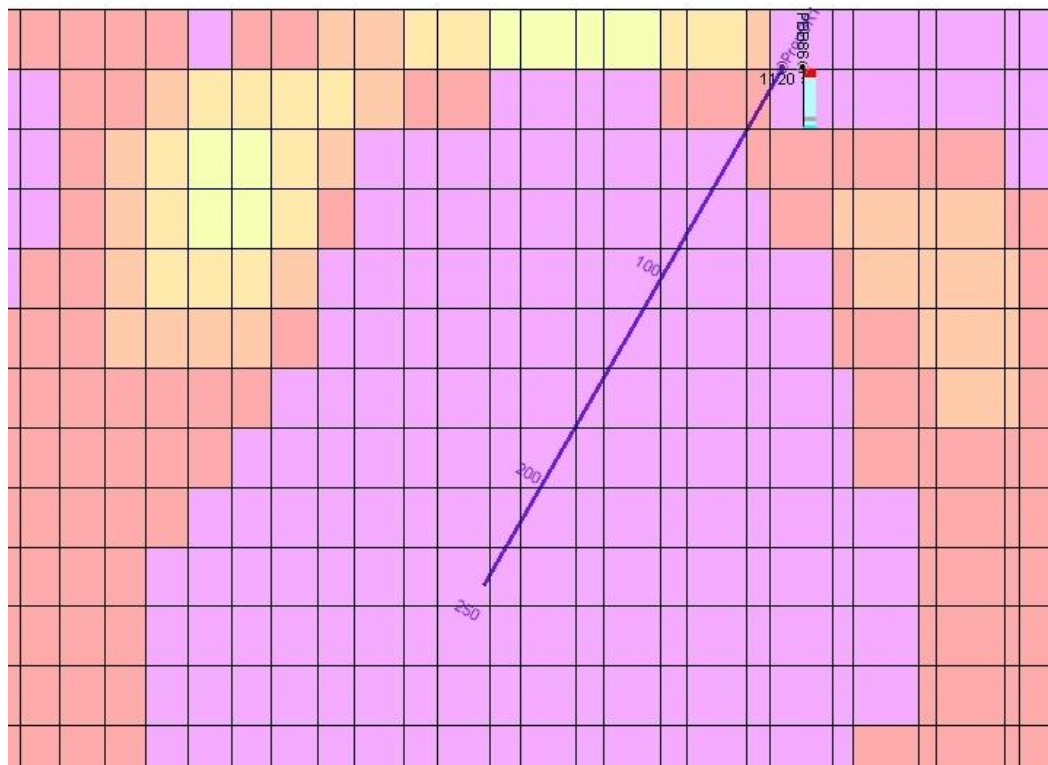
# Ghostrider JV Project

- Strong geochemical anomaly in shallow drilling
- Lead up to 1.2% (2m width at 14m depth), zinc, copper, silver also anomalous
- Old BHP prospect - 1984
- New IP has strong anomalies
- Three of those not drilled

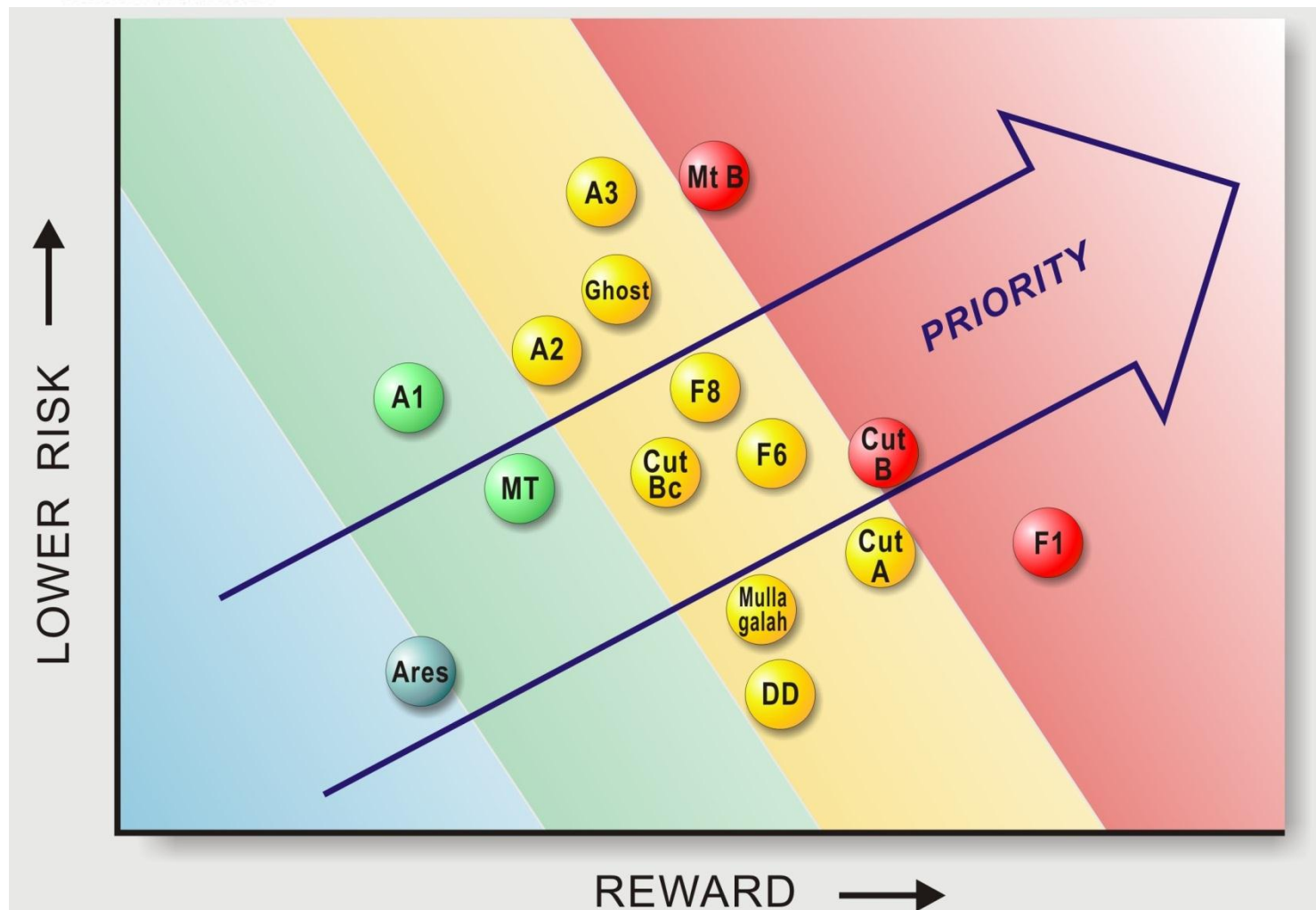


# Ghostrider JV Project

- Chargeability anomaly: up to 8 times background
- Lead near surface: - both galena and pyrite noted in shallow drilling of sandstone dominated sequence
- Wonawinta type target; MVT-type target near basement fault
- Proposed RC hole tests IP



## Prospect Priority for RC drilling





# Corporate Overview

## Capital Structure

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**ASX Code: TMZ**

**Shares on Issue: 70.2 million**

**Market Cap: \$3.4 million**

**Share Price: \$0.045 - \$0.14**  
**(52 Week low/high)**

**Cash at bank: \$2.0 million (30 Sep12)**

**Debt - Nil**

## Shareholders

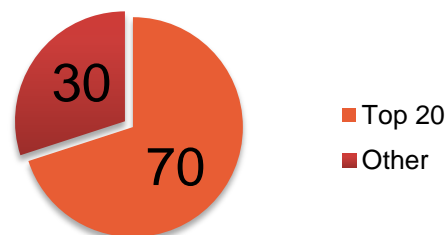
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**PlatSearch NL: 25.6%**

**Van Der Horst Energy: 14.2%**

**Minotaur Exploration: 14.2%**

**Top 20 shareholders:**



## Positive Investment Strategy

- Target concept proved – new mineral field discovered
- Shallower RC drill out to target further high grades
- New JVs have shallow geochemical and geophysical anomalies: RC targets being assessed
- Shallow RC drill-focused exploration program
- Experienced and skilled board and management team

