



# Annual General Meeting

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Managing Director

21 November 2013

**ASX:OGX**

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**Competent Person's Statement:** The information in this presentation that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Dr Klaus Petersen who is a member of the Australasian Institute of Mining and Metallurgy and CREA. Dr Klaus Petersen is an employee of Orinoco Gold Limited and has sufficient experience, which is relevant to the style of mineralisation and type of deposits 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. Dr Klaus Petersen consents to the inclusion in this presentation of the matters based on the information in the form and context in which it appears.

**Exploration Targets:** It is common practice for a company to comment on and discuss its exploration in terms of target size and type. The information in this presentation relating to exploration targets should not be misunderstood or misconstrued as an estimate of Mineral Resources or Ore Reserves. Hence the terms Resource(s) or Reserve(s) have not been used in this context in this presentation. The potential quantity and grade of resource targets are conceptual in nature since there has been insufficient work completed to define them beyond exploration targets and that it is uncertain if further exploration will result in the determination of a Mineral Resource or Ore Reserve.

# Year in Review

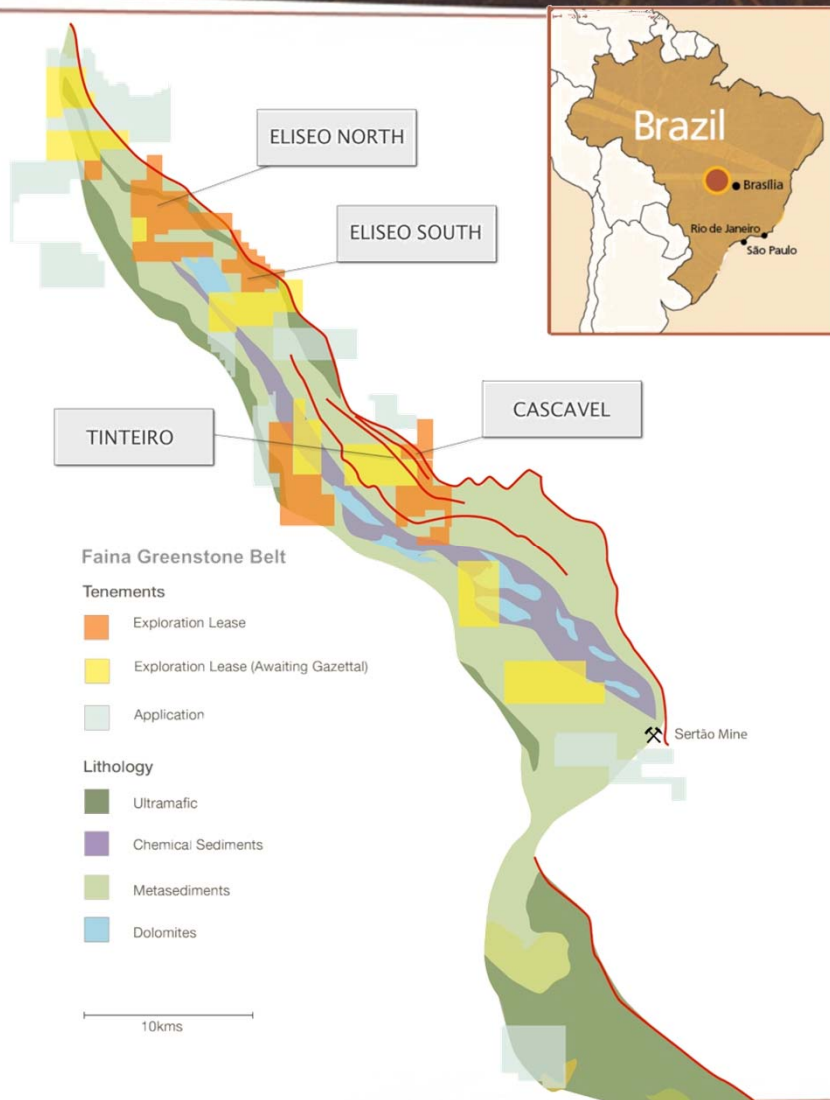


- Rapid progress since 31 Oct 2012 Orinoco/Strickland transaction:
- Two key discoveries from 7,000m of drilling :
- Extensive high grade gold **Cascavel** gold Project.
  - 1 tonne bulk sample grading 22.3 g/t Au.
  - Drilling includes 3.4m @ 38.3 g/t Au. (CdP 004)
  - 1.6km of strike (open) 620m of down dip extent (open) defined.
  - Large underground bulk sampling of high grade gold underway.
  - Excellent gravity gold recoveries – low cap-ex, small footprint.
  - Taking Cascavel from an advanced project to a mine.
- **Tinteiro** Iron Oxide-Copper-Gold Project.
  - 17.6m @ 1,263 g/t Ag, 11m @ 0.25% Cu. (CdP 021)
  - 4.4m @ 760.3g/t Ag, 4.4m @ 0.27% W. (CdP 036)
  - Key structural targets of +4kms defined from aerial geophysics and confirmed by field work.
  - rock chips up to: 23.9g/t gold, 0.4% Copper, 41% Iron, 0.0125% Uranium, >1% Cobalt and 0.6% Nickel.
  - Large, polymetallic system with potential to host significant tonnages on the doorstep of Cascavel.





# A New Mineral Province

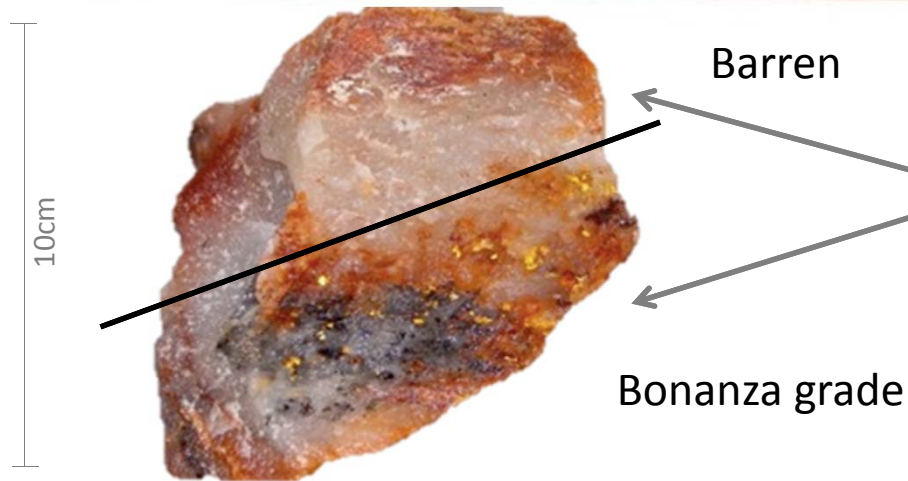


## Faina Goldfields Project (OGX: 70%)

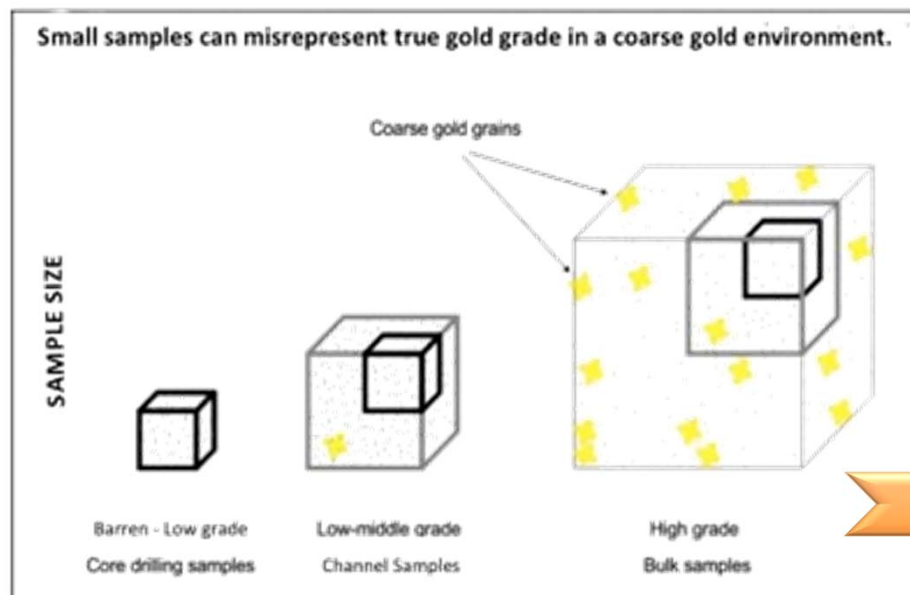
- Brazil remains an excellent jurisdiction in which to explore.
- Experienced team:
  - Exploration & development team with track record of discovery and mine building in Central Brazil.
  - Management team has been running Brazilian focused ASX listed companies for 7 years.
- Large, dominant position in underexplored mineral province.
  - Centred on the large, high grade gold **Cascavel** Project.
  - **Tinteiro** Iron Oxide-Copper-Gold target ~2km from Cascavel.
- Trial mining licenses provide optionality.
  - Will lodge application for a full mining lease at Cascavel during 2014.
- Excellent and productive relationship with local partners
  - Required to make final retention payment in March 2014.



# Cascavel: Coarse, Clustered Gold



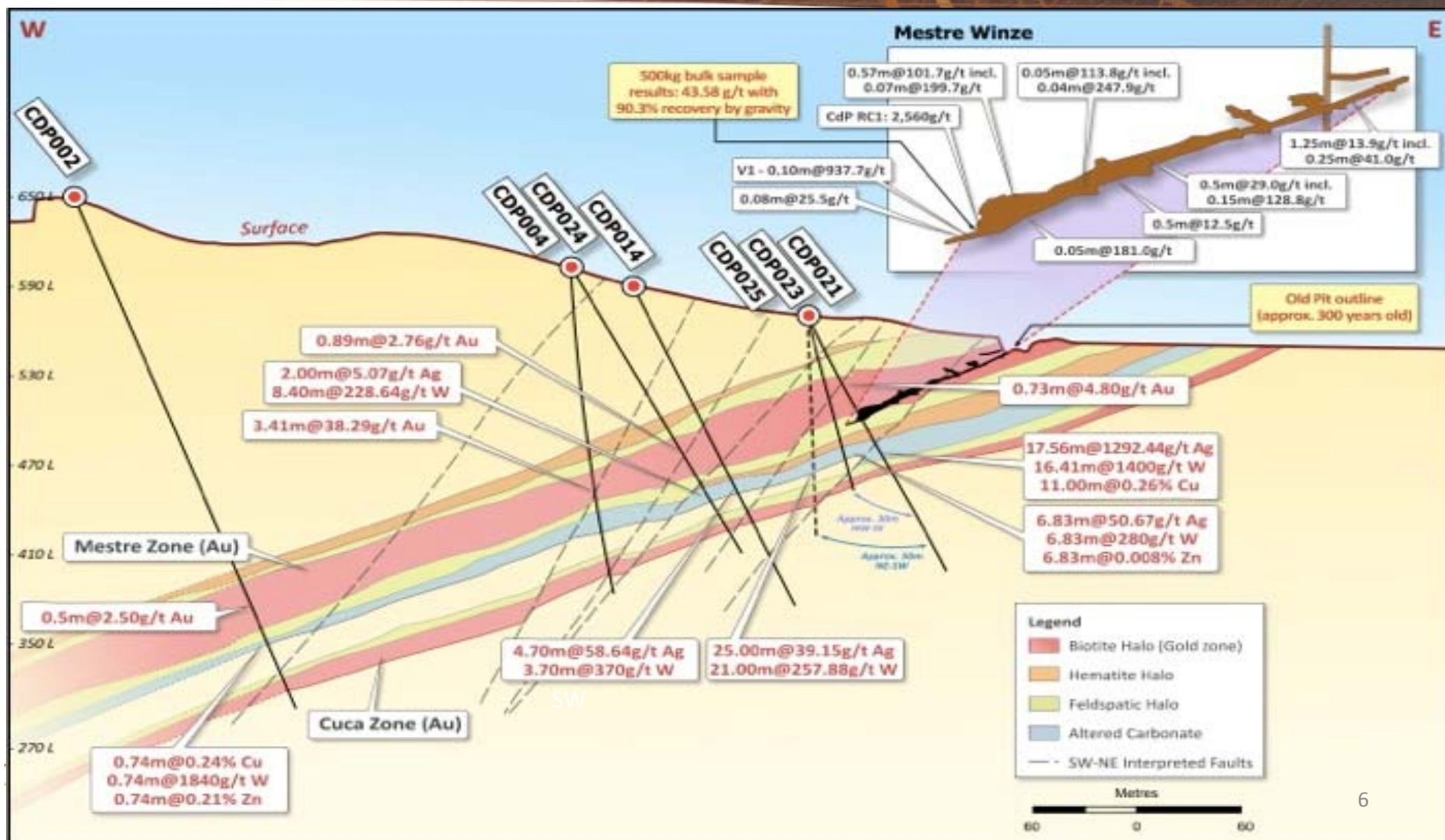
- Nuggetty nature of the gold : high variability in the gold distribution.
  - drilling for **grade** - challenging
  - drilling for **structure** - rewarding
- Mineralised, stacked vein systems structurally controlled within known hydrothermal alteration zones:
  - Biotite/hematite alteration, stacked qtz veins, plus > 0.2g/t gold = mineralised zone.
- Developing well established practice of using geological proxies to assist grade estimation (e.g. Wattle Dam, Castlemaine Goldfields: Resource grade 2g/t: Mined grade 12g/t)
  - colour, texture, alteration, mineralogy, lithology code to predict grade of potential ore bearing zones.



- Within a 10m zone:
  - Drill hole CdP\_023 : 0.5m @ 0.2 g/t gold
  - Channel sample C35 :1.85m @ 5.12 g/t gold
  - 500kg bulk sample returned a grade of 39.3g/t gold

# Cascavel

(OGX: 70%)



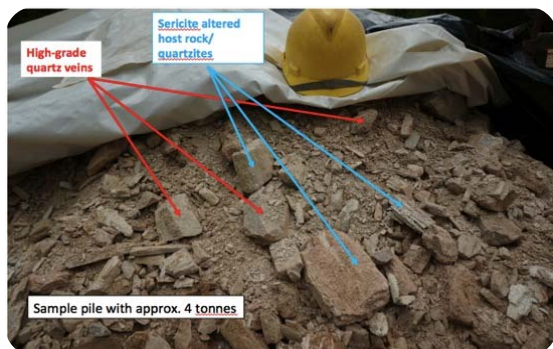


# Cascavel – The Path Forward



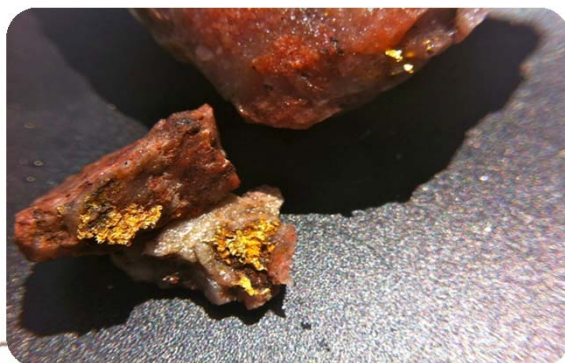
## Bulk Sampling Outcomes:

- Optimise gravity recoveries.
- Additional geological information for broader grade estimation.
- Initial indication of average grade of the Cascavel ore.
- Indication of diluted mining grade & conditions.
- Extraction of ore for stockpiling or gravity concentration.



## Project Pathway

- Processing of a ~25-tonne bulk sample at a pilot plant completed
  - Gold concentrate being refined end of Nov: total contained gold results pending.
  - Metallurgical test work (200kg) to optimise gravity recoveries complete: results pending.
- Next step : collection of a ~500-tonne bulk sample from a 200m exploration decline.
  - Contract mining.
  - Toll treatment discussions underway with local mills.
  - Engineering design work underway.
- Evaluation of multiple options for Project Development post positive completion of decline.

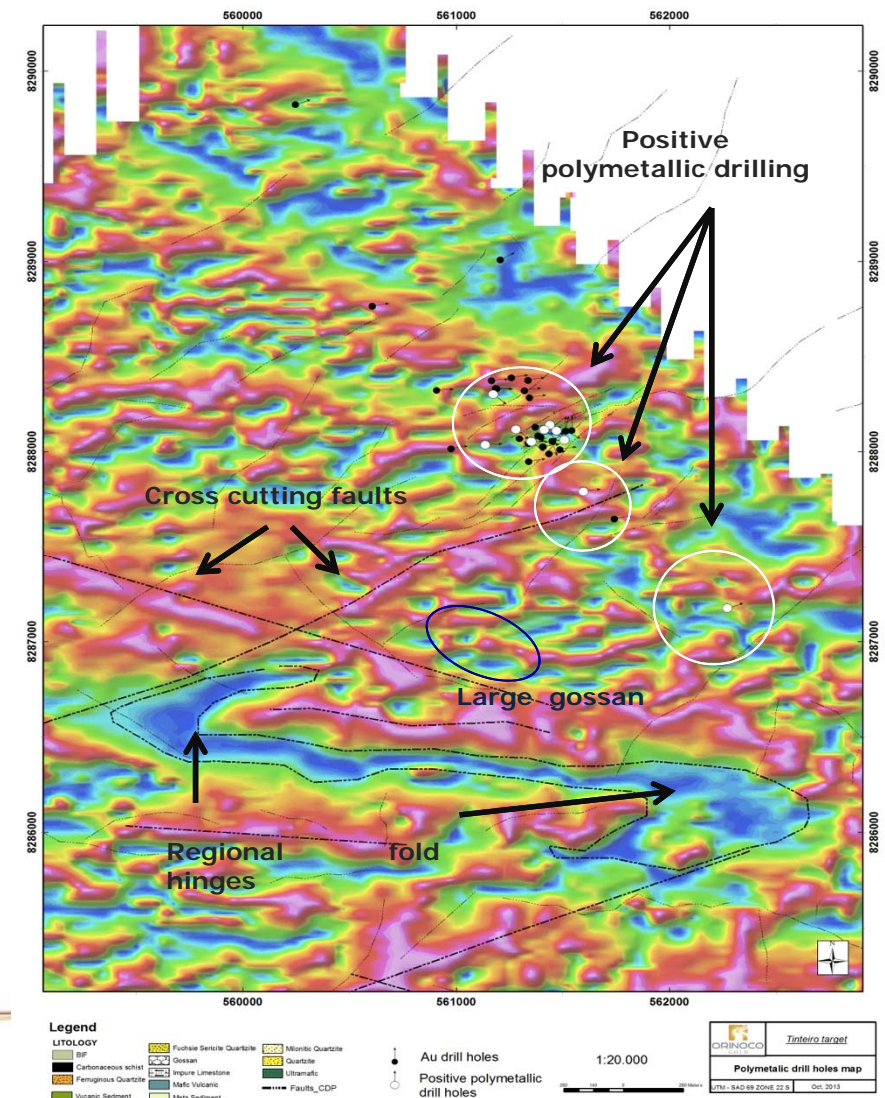




# Tinteiro: IOCG Target

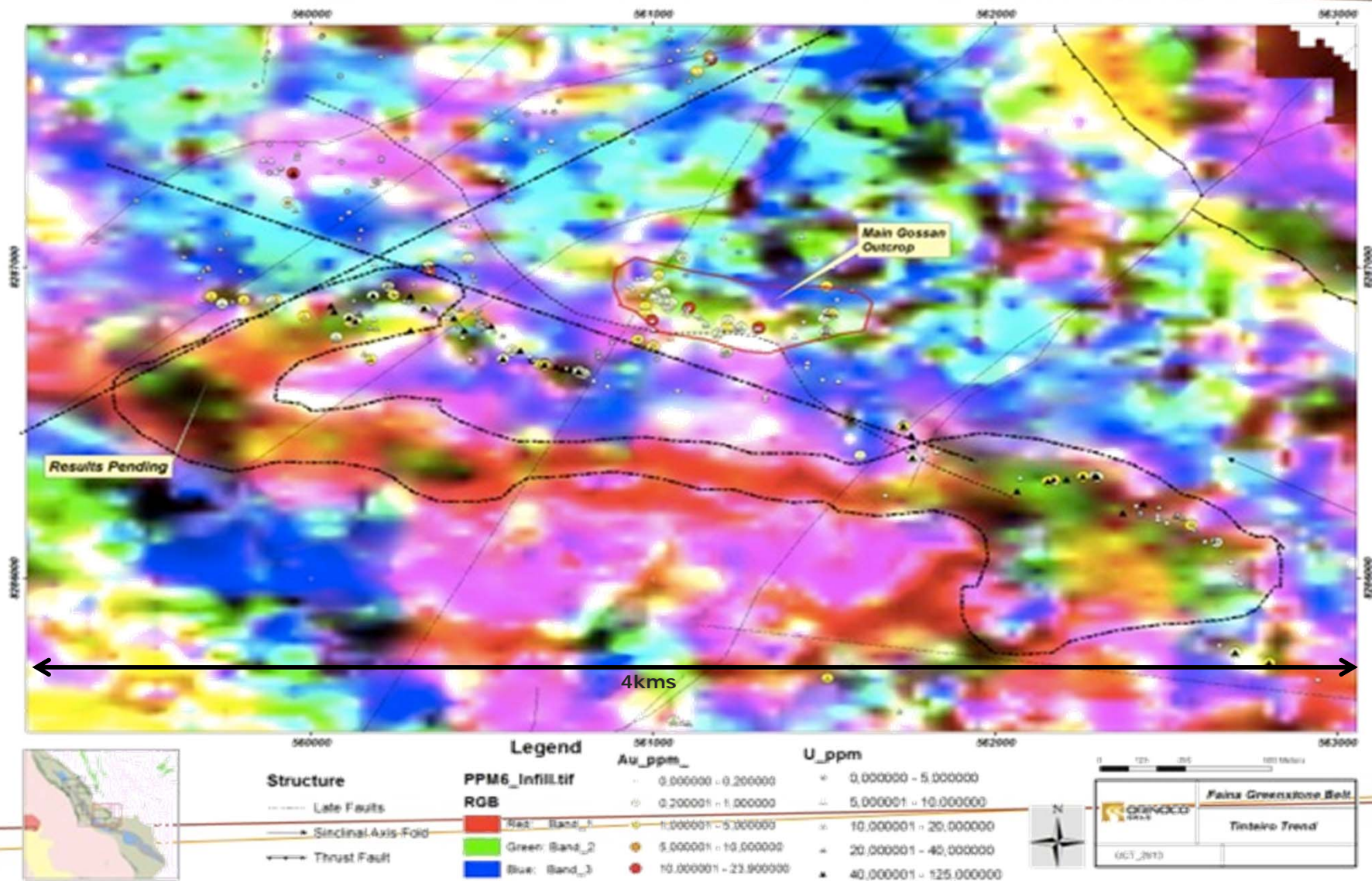


- Key targets at Tinteiro have +4kms of strike.
- Structural targets identified from aerial geophysical, survey correspond with:
  - numerous gossans and hematite-rich breccias with rock chips up to:
    - 23.9g/t gold, 0.4% Copper, 41% Iron, 0.0125% Uranium, >1% Cobalt and 0.6%
- Drilling at distal margin of system includes:
  - **17.6m @ 1,263 g/t Ag**, 11m @0.25% Cu (CdP 021)
    - including **2m @ 6,600 g/t Ag**
  - **4.4m@ 760.3g/t Ag**, 4.4m @ 2,672g/t W (CdP 036)
    - including **1.05m @ 2,510 g/t Ag**
- Undertaking further detailed rock chip sampling and mapping over key untested structural targets.
- Refining geophysics and field data to identify priority drill targets in numerous large anomalous areas.



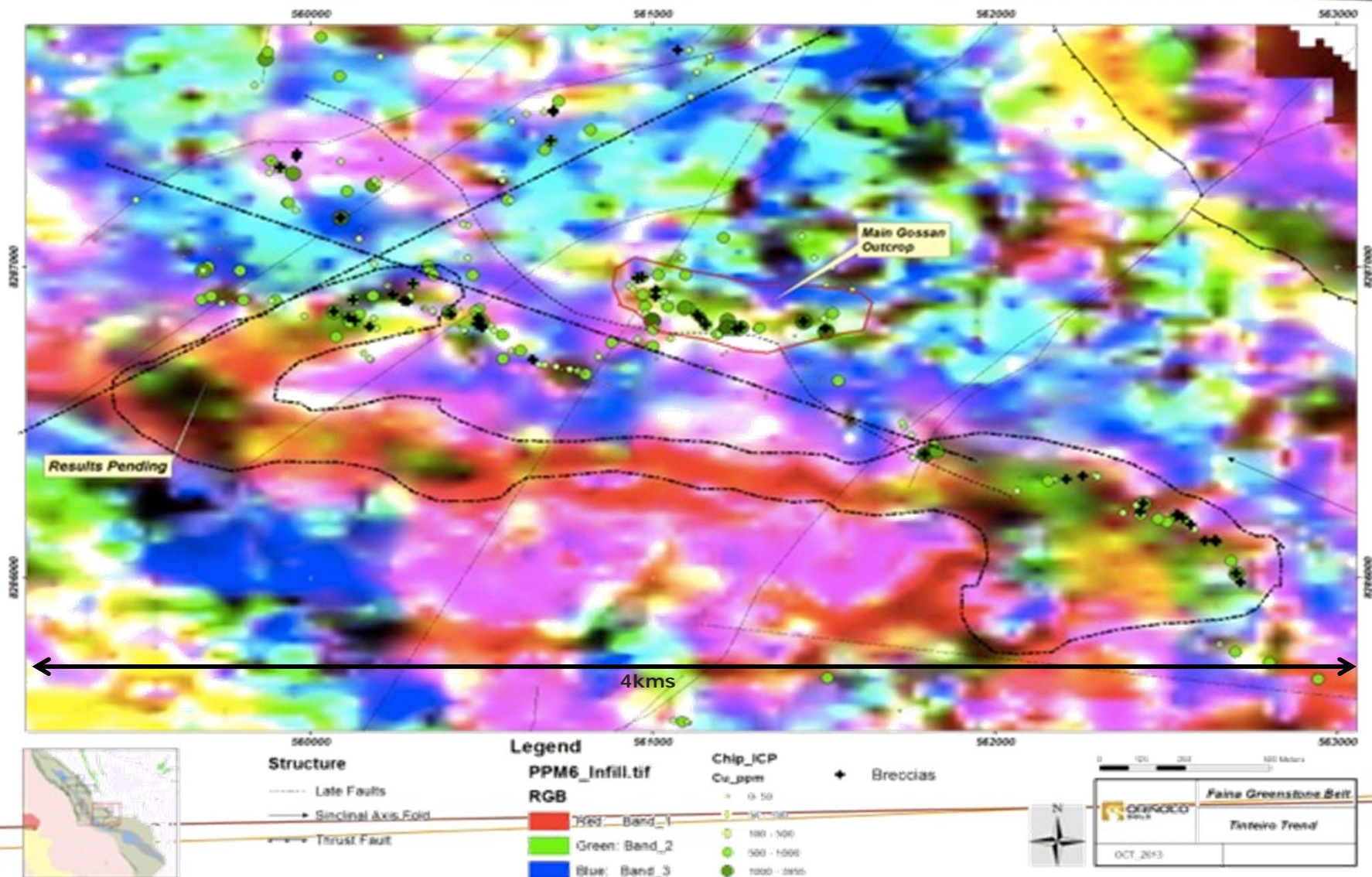


# Tinteiro: Gold, Uranium Anomalies





# Tinteiro: Copper & Breccias





- Progressing Cascavel from an advanced project to a mine.
- Continuing to prove the scale, grade and large potential of Tinteiro.
- Applying our exploration knowledge to OGX's broader tenement package.





# Contact

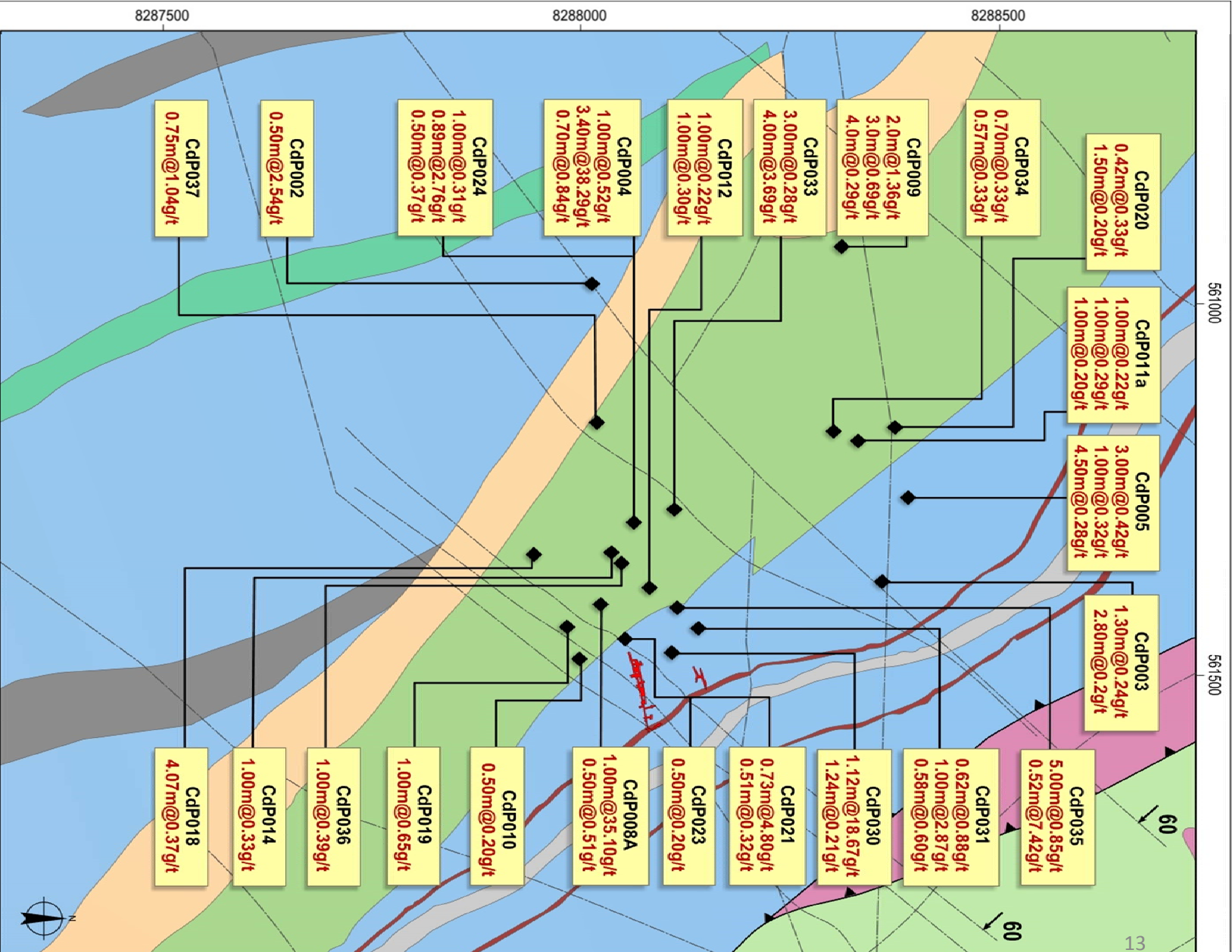
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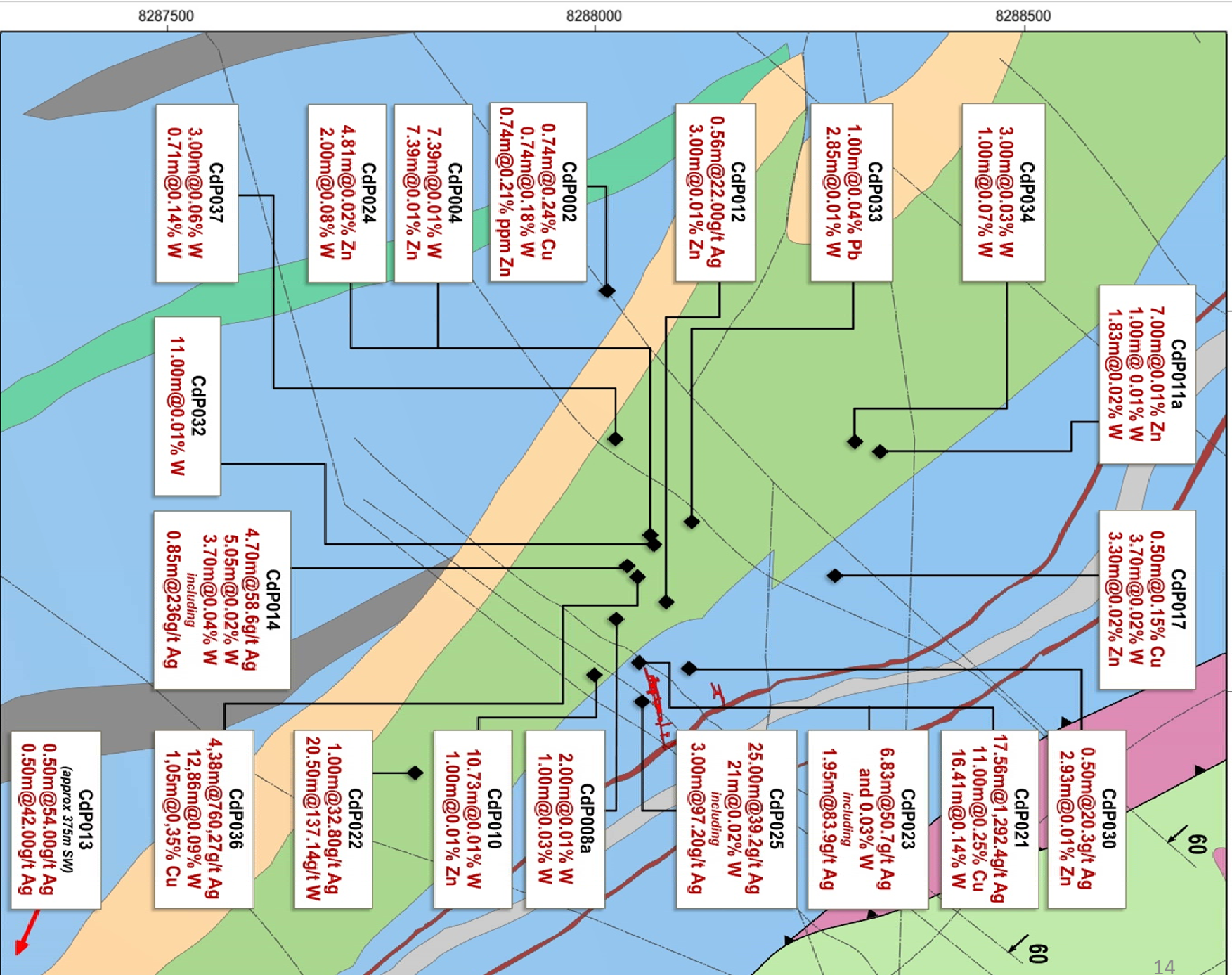






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**Lithology**

- Meta Sediment
- Ultramafic
- Chlorite talc schist
- Mafic Volcanic
- Carbonaceous schist
- Quartzite
- Impure Limestone
- Gold bearing zones
- Mylonitic Quartzite
- Gossan
- BIF
- Ferruginous Quartzite
- Faults CDP
- Drill holes
- Winze



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Meters



Fauna Goldfields Project  
CASCADAVEL