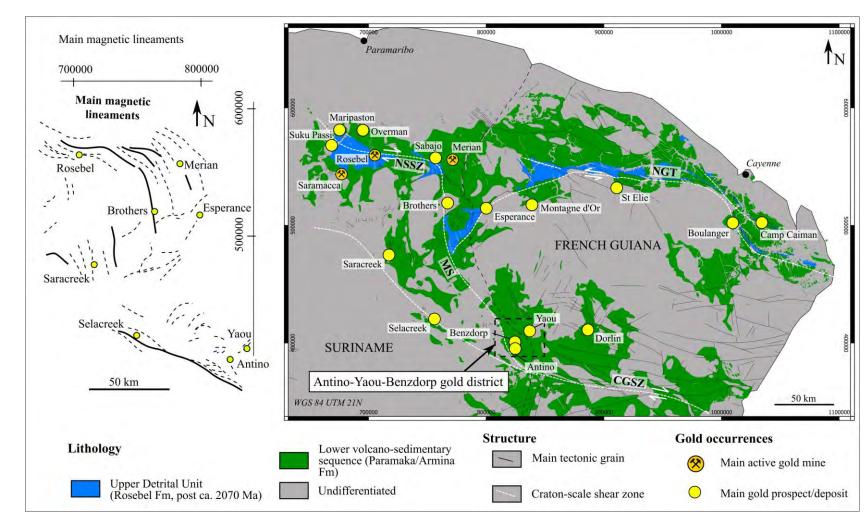




The Antino Gold Project Within The Guiana Shield

- NE part of Guiana Shield
- At intersection of two cratonscale shear structures
- 10 km from the Yaou gold deposit (> 1.5 M ounces) in French Guiana

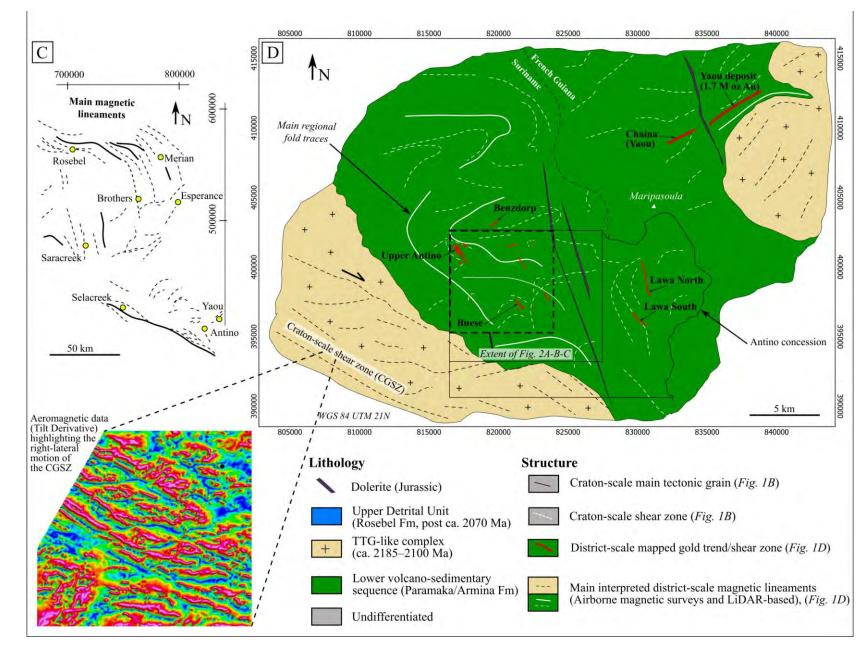






Regional Framework

- Prolific gold district
- Yaou-Benzdorp-Antino
- Large fold traces in volcanosedimentary sequence
- First, second/third order structures

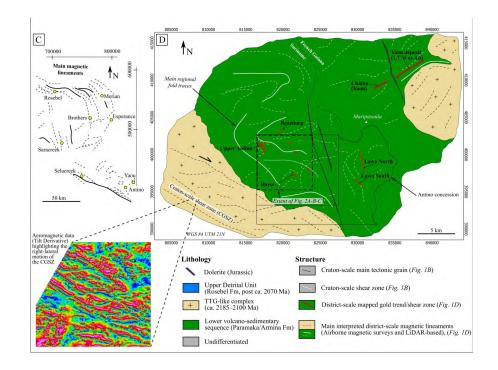


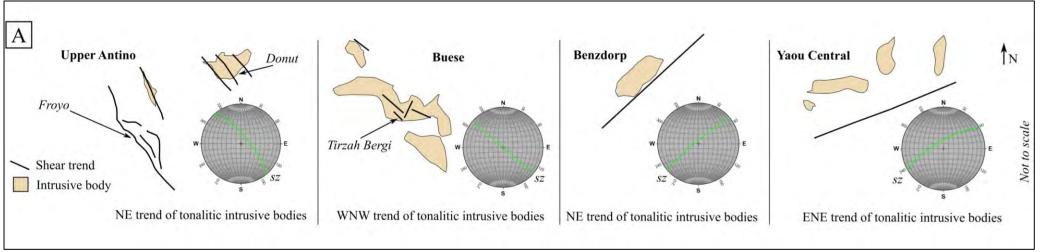




Regional Framework

- At least 9 identified areas with tonalitic intrusion-hosted mineralization in the district
- (intrusion hosted OG =large tonnage)



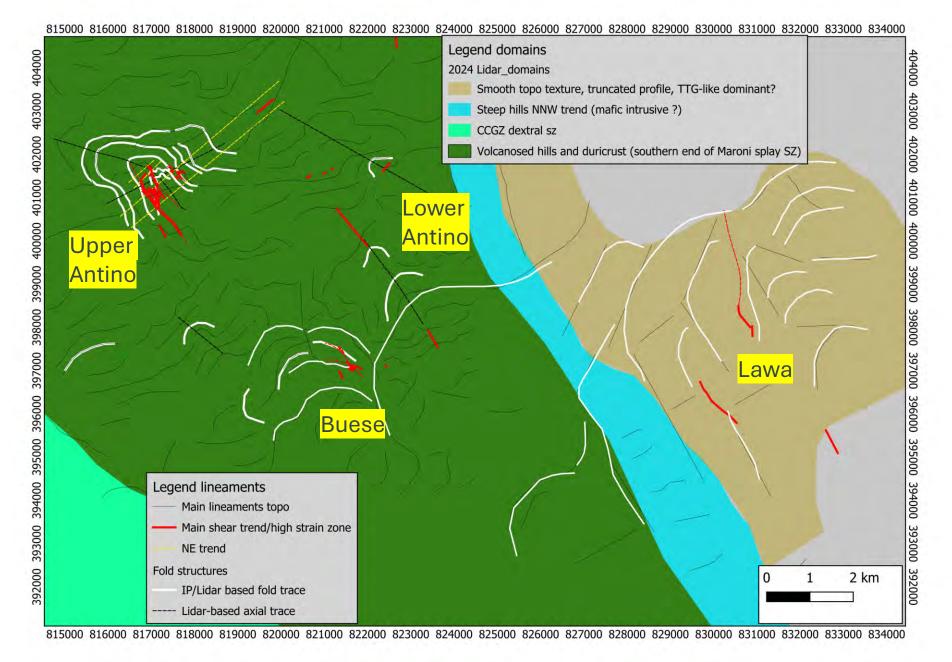






Antino Gold Camp

 Multiple Aubearing shear structure with spatial association with fold structures

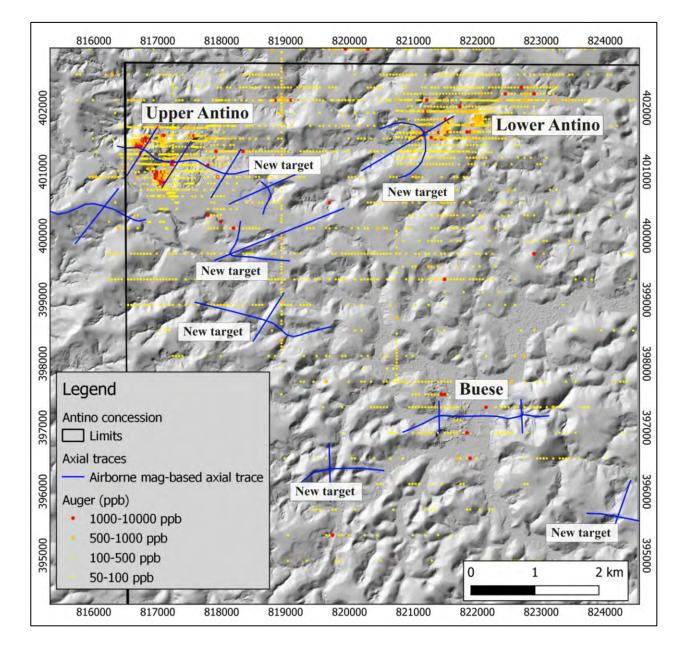






Antino Project

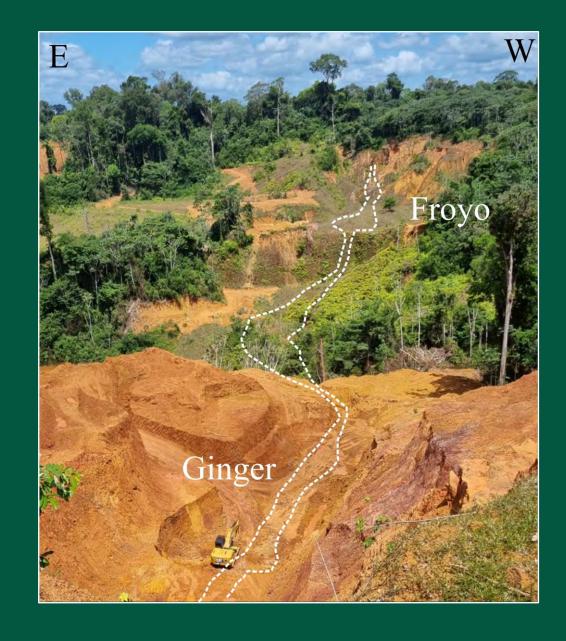
- NW corner of the concession
- 3 main historical targets
- Multiple new targets generated in 2023
- Two styles of gold mineralization identified (both orogenic gold):
 - shear zone hosted, mostly at lithological contacts (high grade, up to 400 g/t)
 - intrusion-hosted (lower grades but potential for large volume)
- Exploration work (2023-2024)
- Upper Antino: diamond drilling, IP survey, ground survey, mapping, trenching
- Buese: mapping, sampling, auger, IP survey





Upper Antino Exploration Target



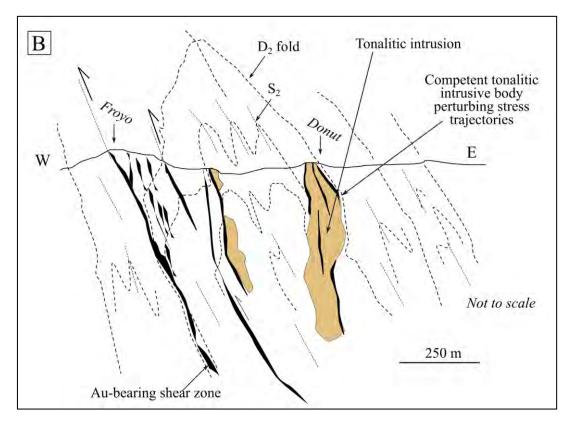




- Fold closure of NW plunging fold structure
- Based on mapping, Lidar and IP

Topographic high domain, (mafic volcanic dominant, more resistive) Upper Antino, plan view Cupcake target Eclair targets Donut target Ginger target Froyo target Camp Chargeability mV/V Chargeability anomaly 500 m

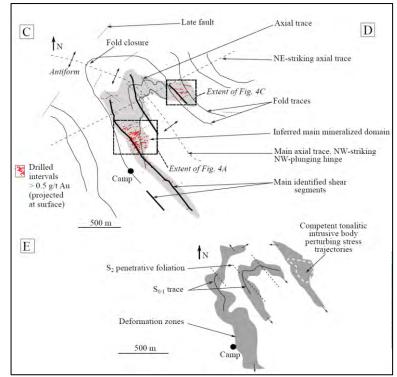
Froyo East dipping, Cupcake and Donut West dipping

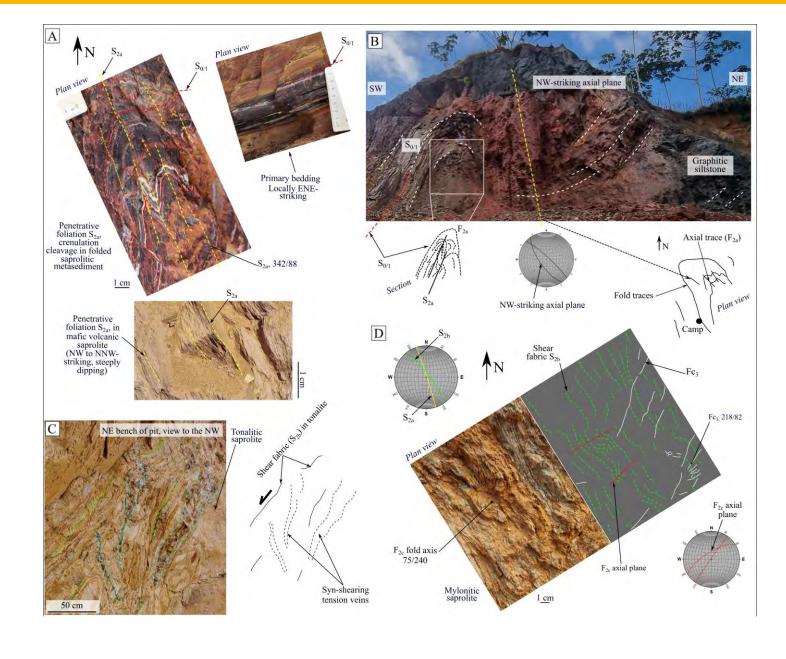






- Fold closure of NW plunging fold structure
- Based on mapping, Lidar and IP

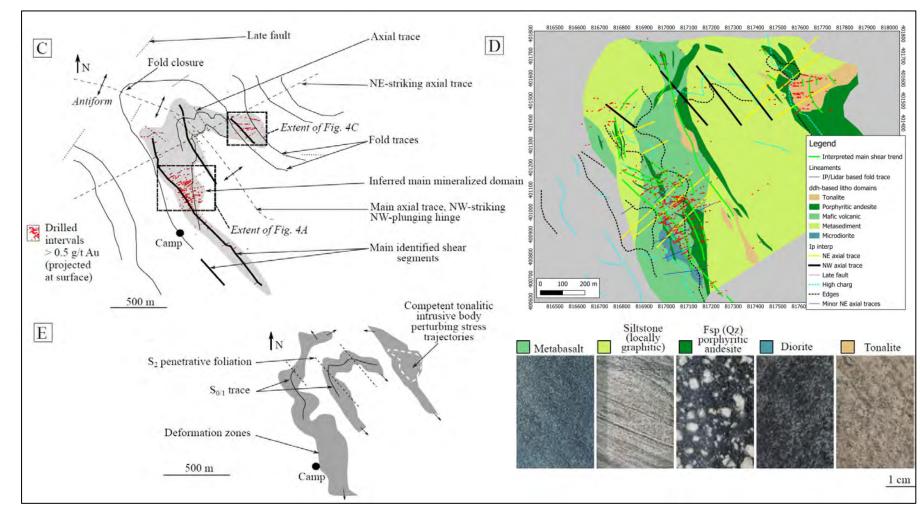








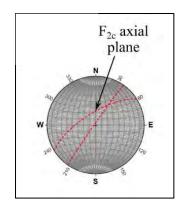
- Fold closure of NW plunging fold structure
- Based on mapping, Lidar and IP



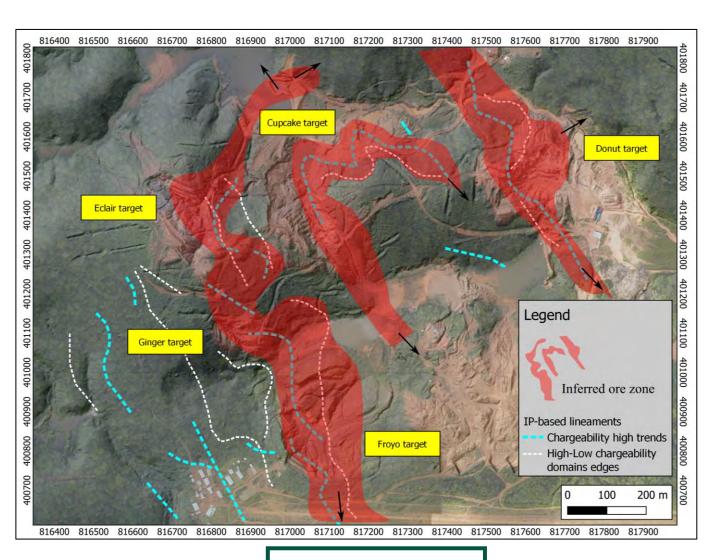




- Shear NW-striking
- Importance of NE for refolding = NE-striking axial traces
- Importance of NE trend = post-shearing brittle deformation



Based on mapping and oriented ddh

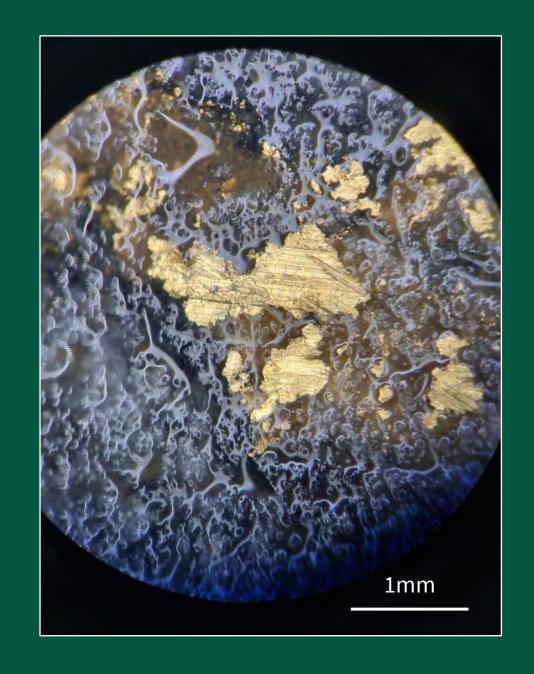


Based on mapping and IP lineaments



Upper Antino 2023-2024 Drill Target

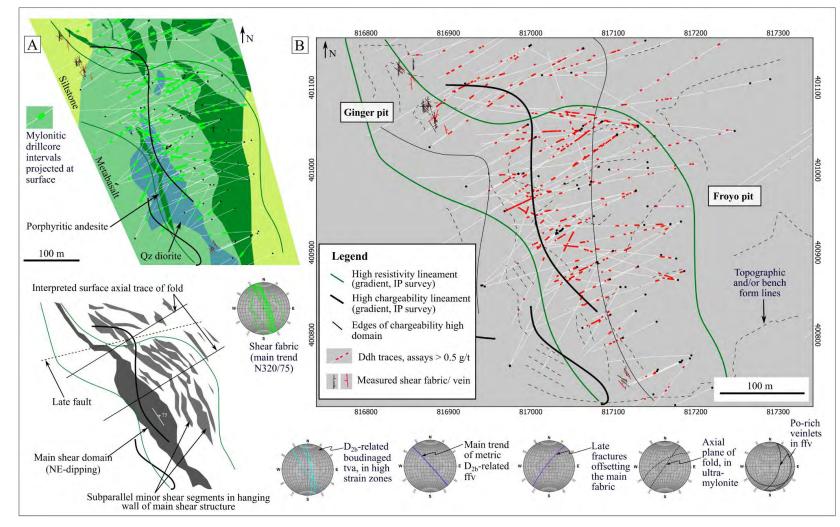






Froyo-Ginger Drill Target

- Interesting width: 38m, 45m or 26m long intervals
- > 200m wide ore zone
- Multiple ore zones: example hole FRDD45
- 1 main shear
- Multiple subparallel shears
- Reusing lihto contacts and preexisting fabric
- Fold structure with NE axial traces

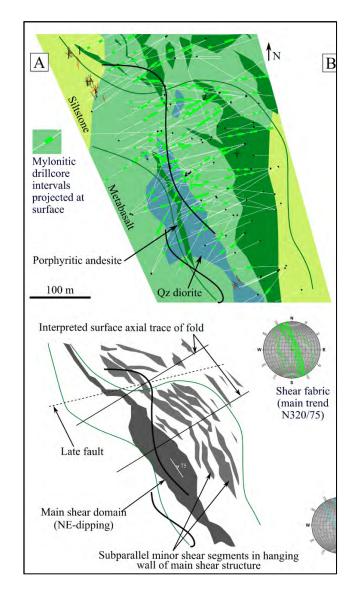


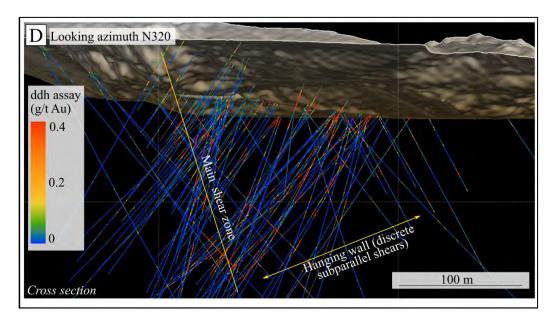




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- Fold structure with NE axial traces



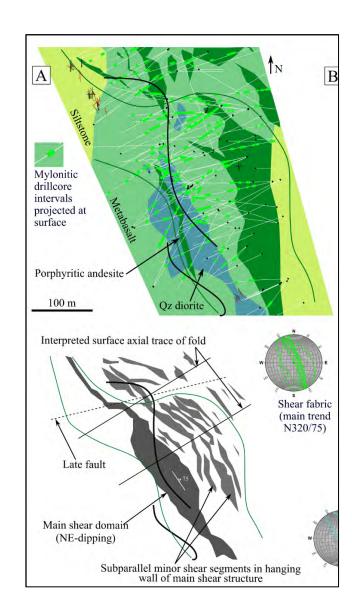


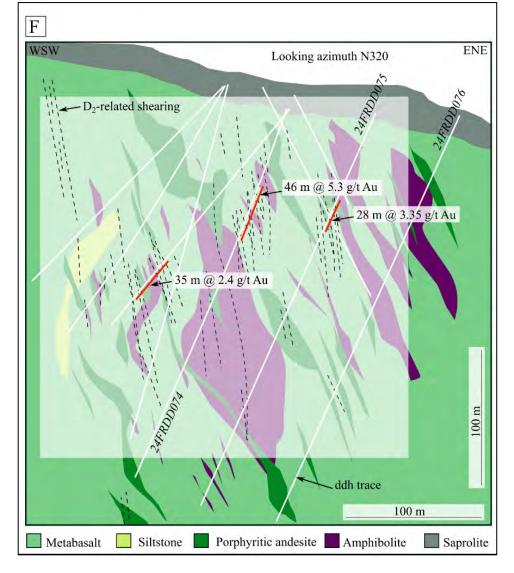




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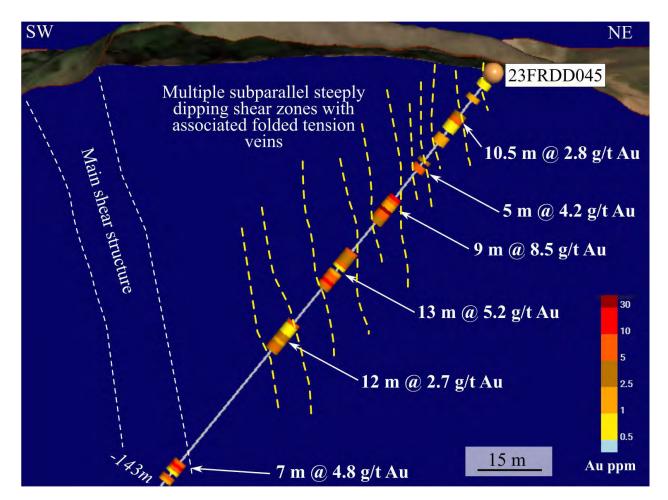




Froyo-Ginger Drill Target

- Interesting width: 38m, 45m or 26m long intervals
- > 200m wide ore zone
- Multiple ore zones: example hole FRDD45
- Best Intervals Include:

| Hole ID | Intervals | |
|-------------------|--|--|
| Drillhole 24GG013 | 44.0 m @ 2.05 g/t Au | |
| Drillhole 24FR74 | 46 m @ 5,31 g/t | |
| Drillhole 24GG04 | 38 m @ 10.90 g/t Au | |
| Drillhole 23FR030 | 26.00 m @ 6.35 g/t Au | |
| Drillhole 23FR027 | 10.50 m @ 8.91 g/t Au from Froyo-Ginger Connector Zone | |
| Drillhole 23FR025 | 45.79 m @ 4.06 g/t | |
| Drillhole 23FR014 | 15.50 m @ 30.72 g/t including 5.80 m @ 54.61 g/t | |







Froyo-Ginger **Drill Target**

- Very High grade intervals
- **Highest grade in the NW** extension: 1.0 m@ 434.98 g/t Au

Example high grade gold mineralization: drillhole 23FRDD014

| From (m) | To (m) | Assay (g/t Au) |
|----------|--------|----------------|
| 63 | 64 | 1,19 |
| 64 | 65 | 47,3 |
| 65 | 66 | 49,58 |
| 66 | 67 | 15,45 |
| 67 | 68 | 2,372 |
| 68 | 69 | 3,97 |
| 69 | 70 | 3,97 |
| 70 | 71 | 27,6 |
| 71 | 72 | 64,84 |
| 72 | 73 | 9,73 |
| 73 | 74 | 147,87 |
| 74 | 75 | 37,83 |
| 75 | 76 | 34,22 |
| 76 | 77 | 7,9 |
| 77 | 78 | 14,45 |
| 78 | 79 | 23,42 |
| 79 | 80 | 0,321 |



from 65 m



from 71 m





147.87 g/t Au

from 73 m



60.7 g/t Au

from 74.57 m



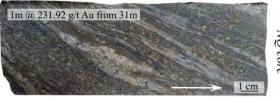
Founders

Metals

Example high grade gold mineralization: drillhole 23FRDD026







Example visible gold drillhole 23FRDD044

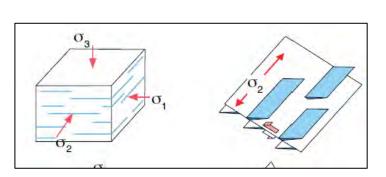


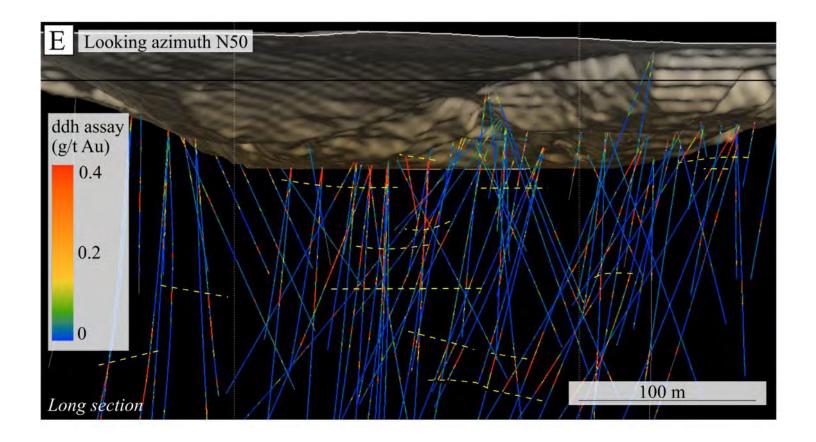


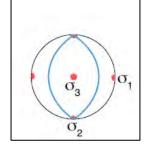


Froyo-Ginger Drill Target

- Subvertical slip direction identified at Froyo-Ginger
- Long axis of the ore shoot is perpendicular to the slip direction observed in the shear plane so subhorizontal ore shoot for dipslip reverse shearing (= sigma2, fluid flow vector)







Ore shoot are subhorizontal and repeated at depth.
The drilling should target same depth of identified
ore shoot, along strike

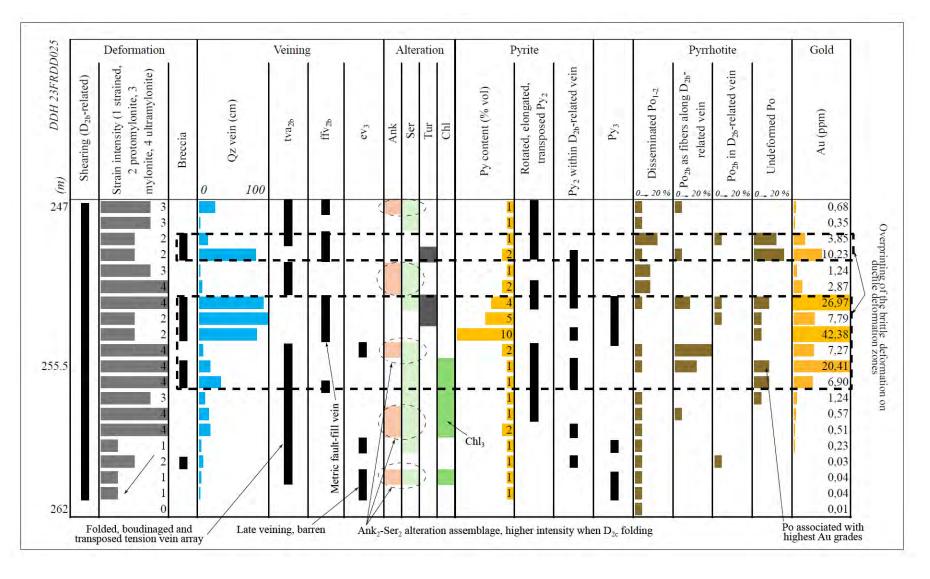
Cox (2020)





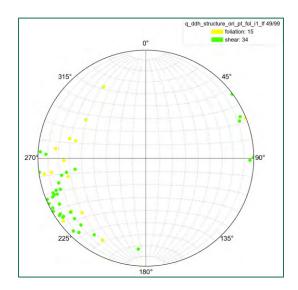
Example Relog

- Complex controls on gold content:
 - Importance of preexisting features
 - Importance of folding
 - Importance of brittle over-printing

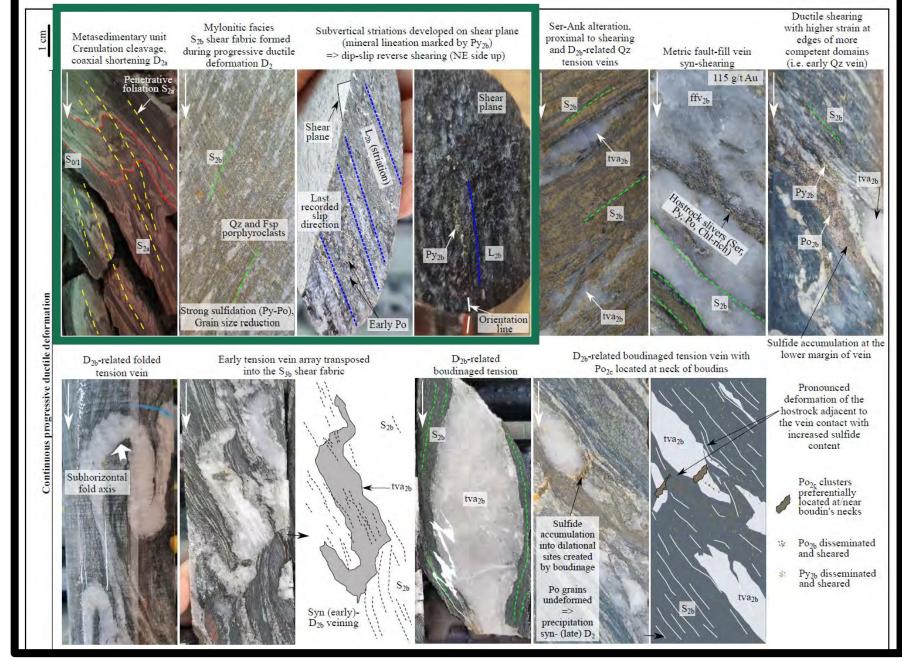




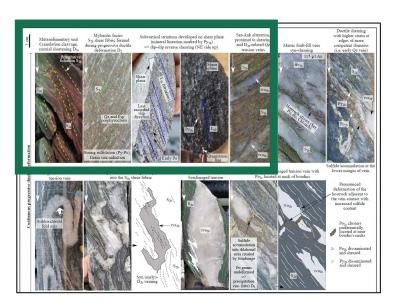


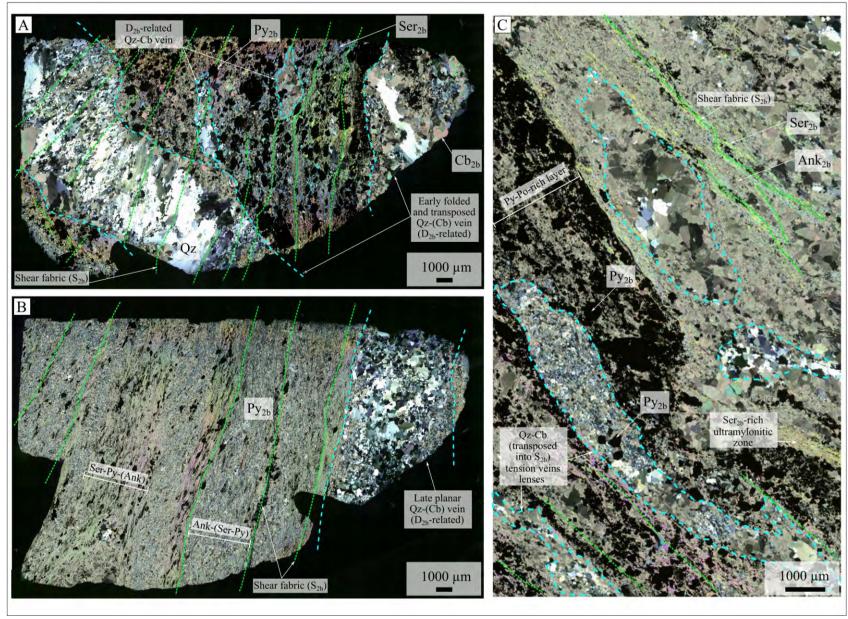


Hole 74: S2a penetrative foliation (in yellow) and S2b (in green). The strike of the shear fabric (away from microfolding/bending associated with D2c) remains the same along the Froyo-Ginger structure =N320/70-75.



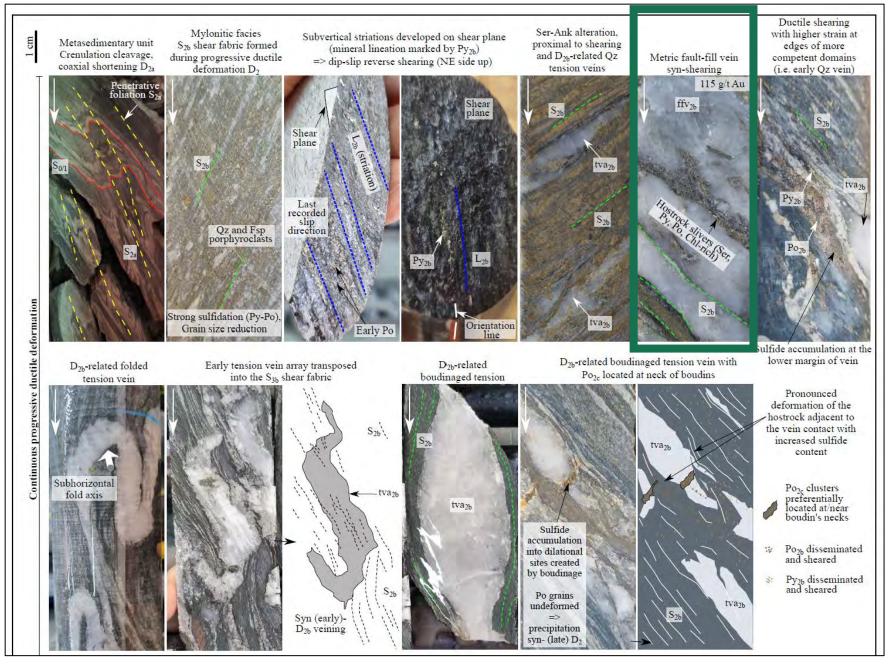


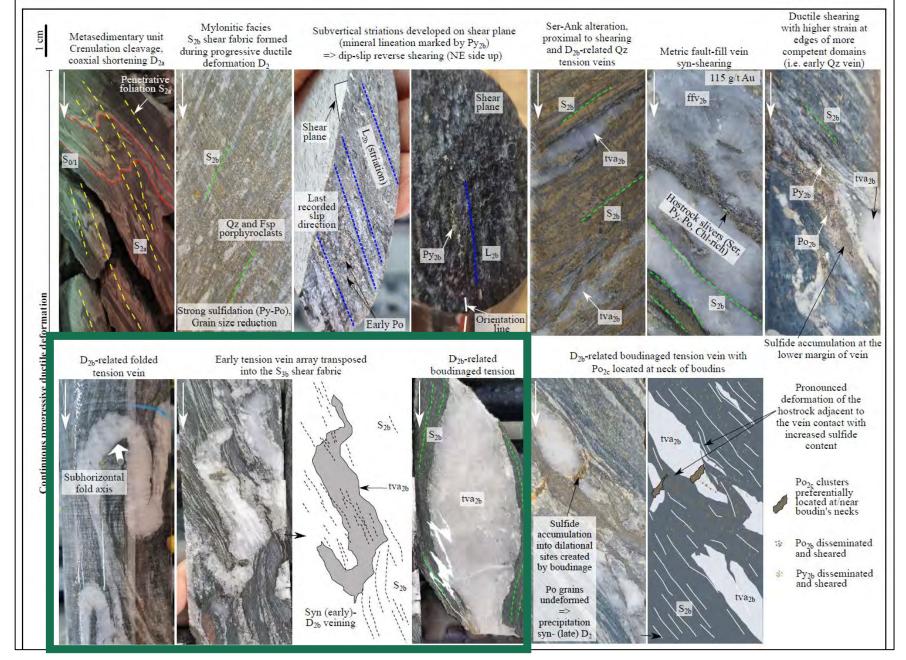








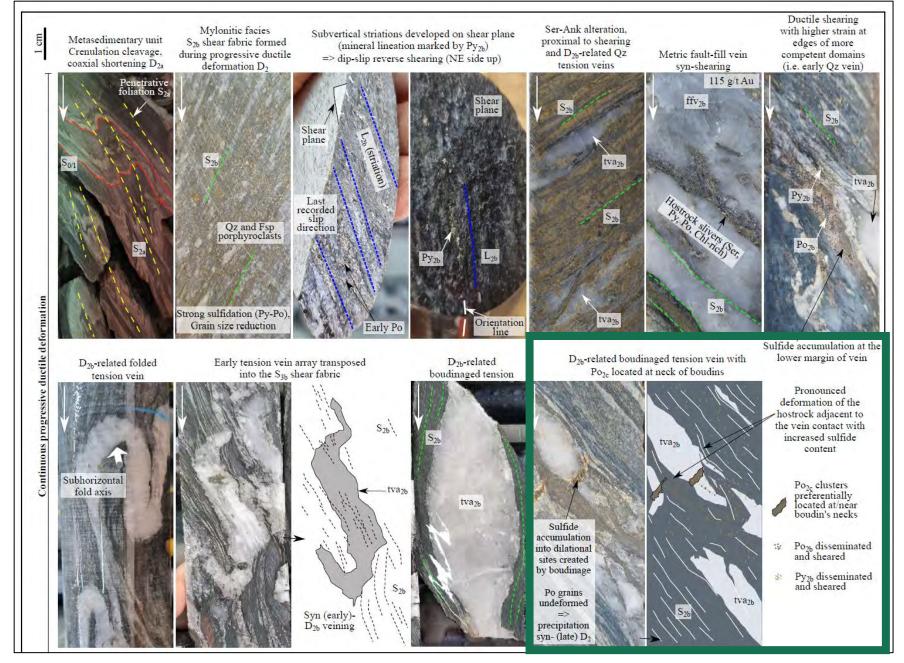




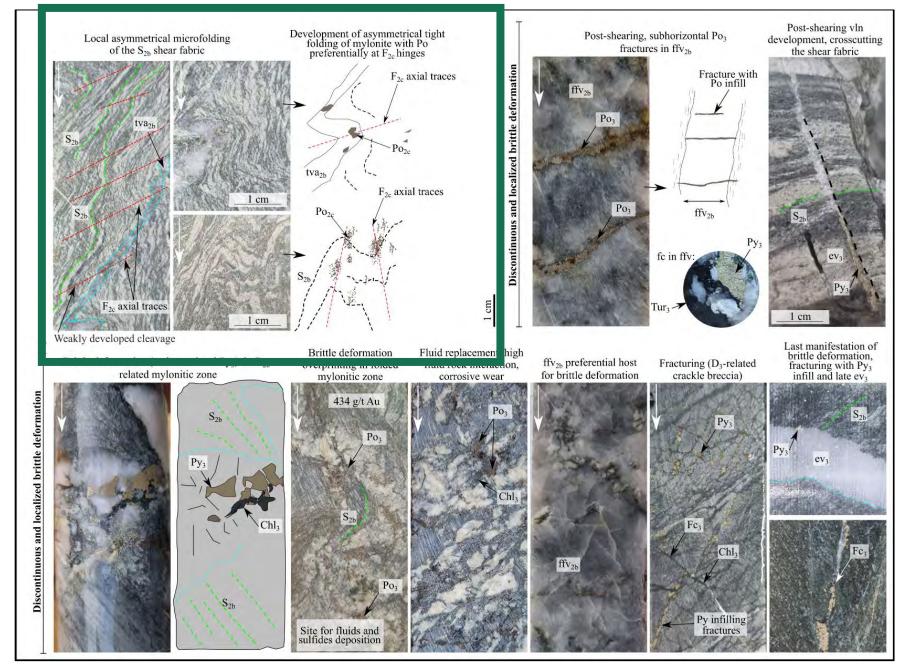




- Deformation stages and vein system
- During subsequent deformation the vein will fold/boudinage creating low stress sites that will focus the deposition of subsequent hydrothermal fluids

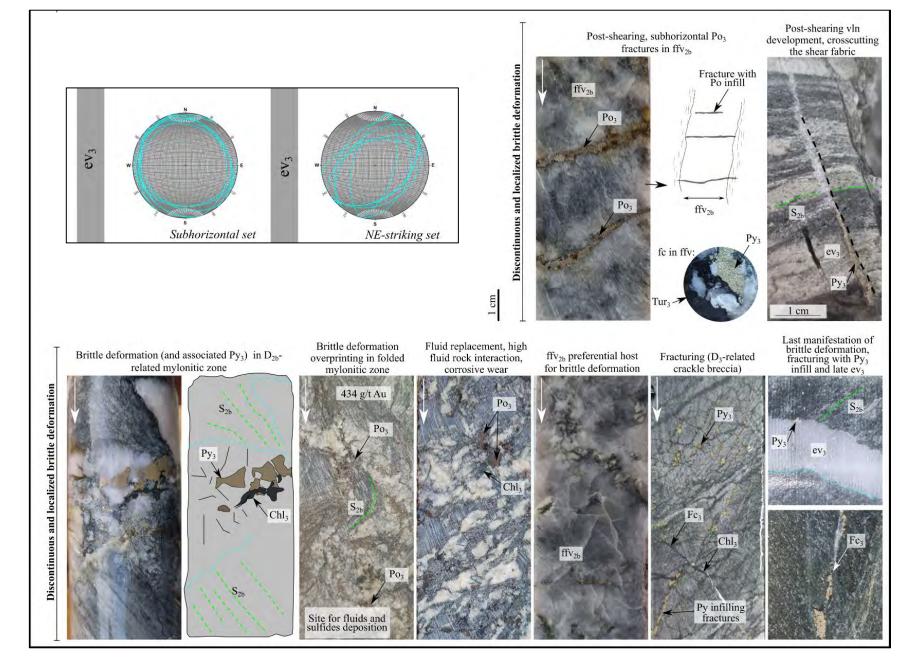






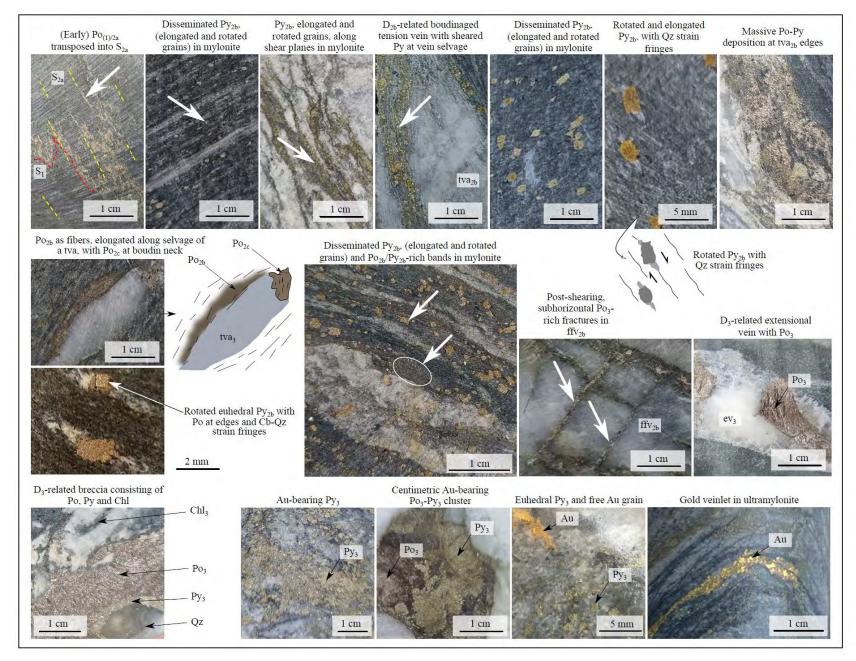


- Deformation stages and vein system
- Discontinuos and localized brittle def





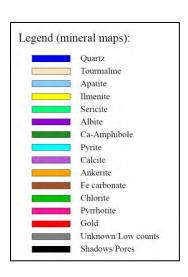
Ore-related phases

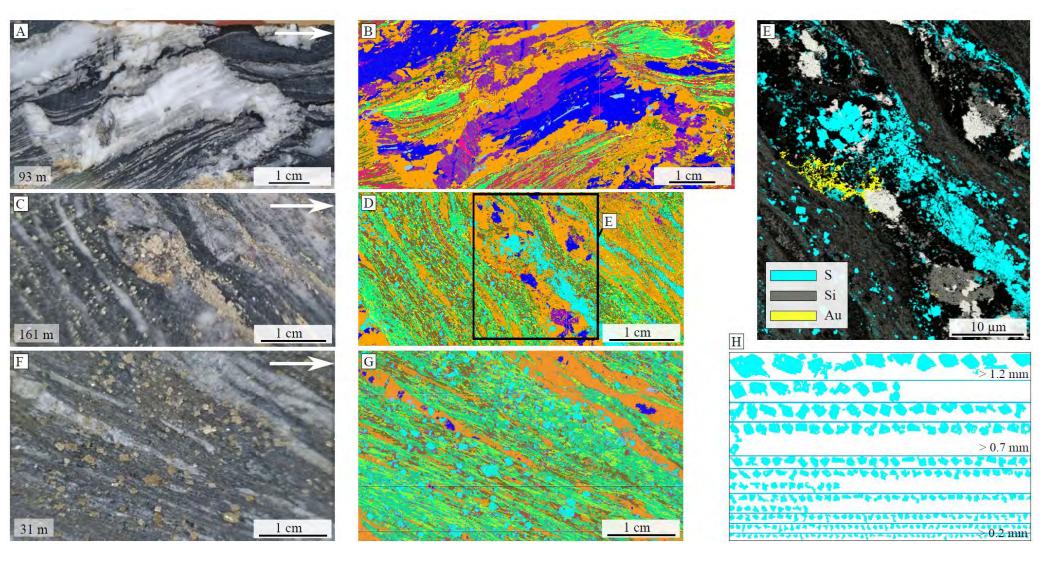






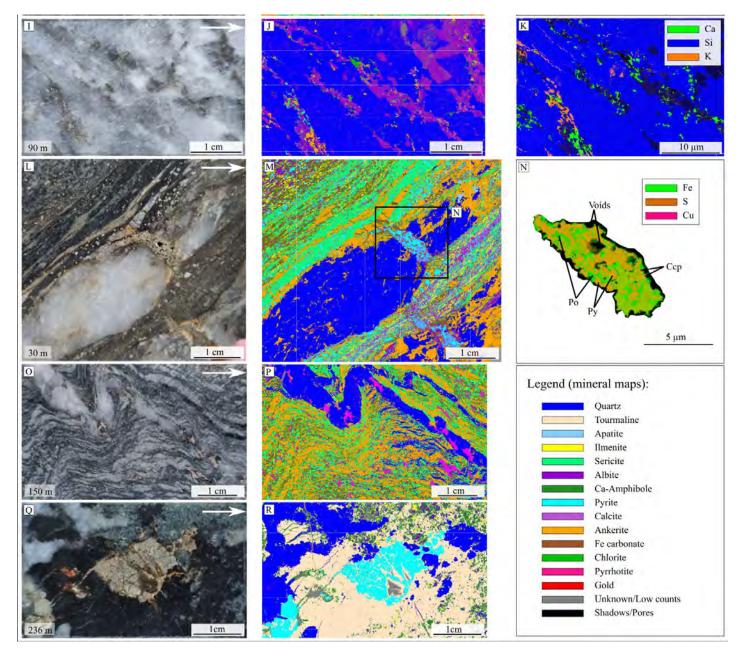
- Ore-related phases
- μxrf drillcore scans







- Ore-related phases
- μxrf drillcore scans

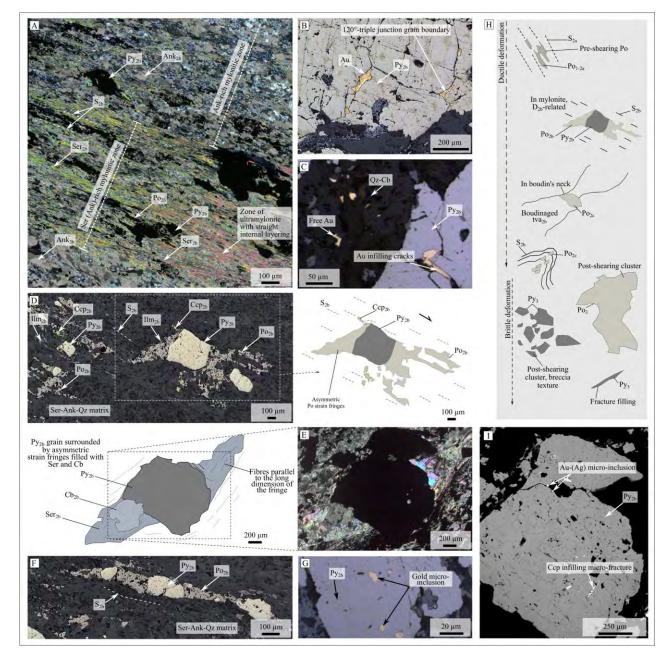






Au Controls at the core-scale

- Gold occurs mainly as:
 - 1. free gold in quartz carbonate veins
 - 2. free gold within sericite-(ankerite)-rich mylonite, and as both
 - 3. micro-inclusions
 - 4. gold infill in microfractures/cracks/grain joints within sheared pyrite grains related to the local D2b deformation stage

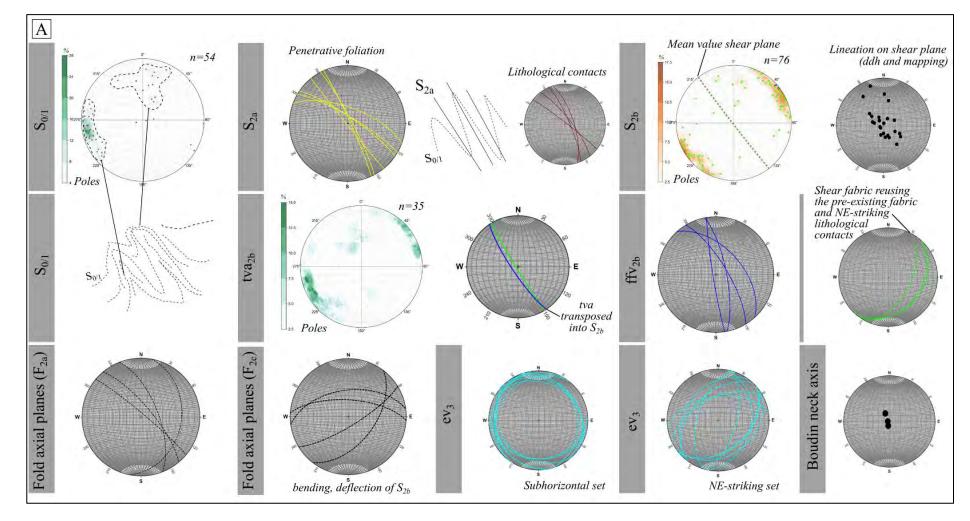






Froyo-Ginger Target Summary

Oriented Core

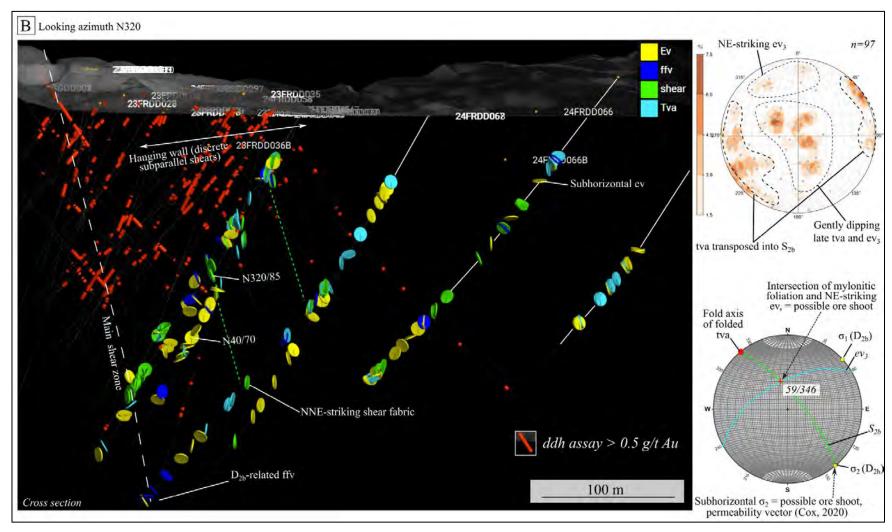






Froyo-Ginger Target Summary

Oriented Core

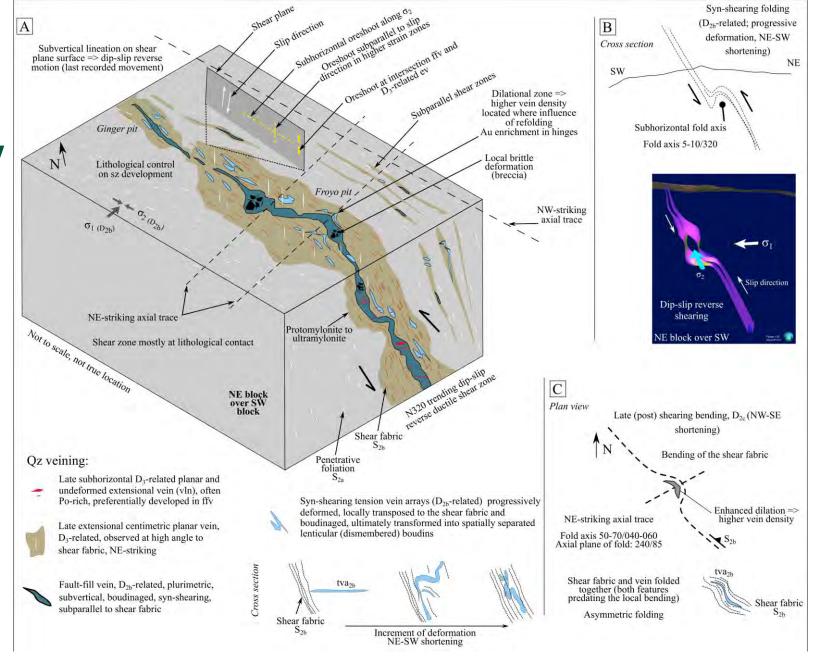






Froyo-Ginger Target Summary

- Model for the Froyo-Ginger target
- Importance of folding

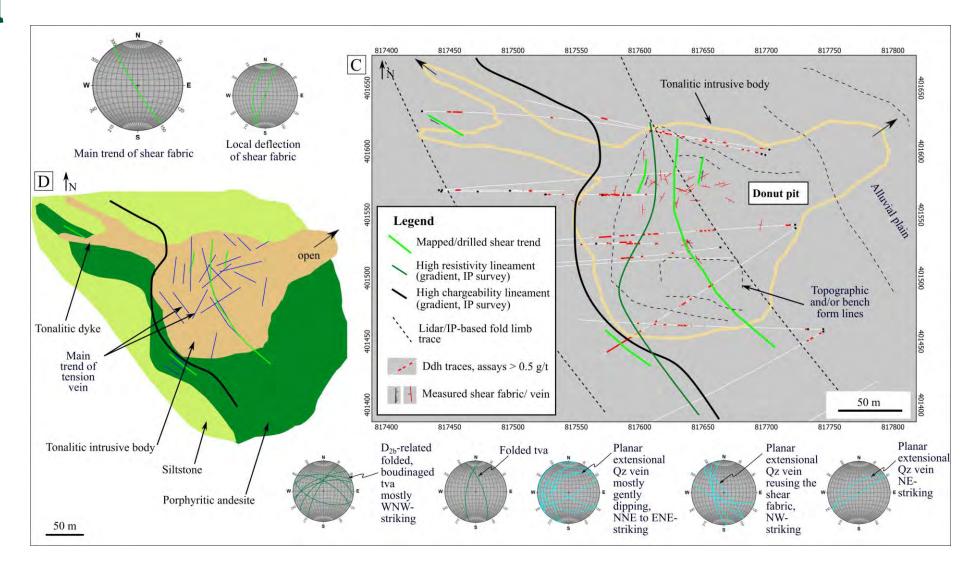






Donut Drill Target

- Intrusion hosted, Au associated with internal shearing and brittle veining
- 19 m @ 14.23 g/t
 (24D007) and 45 m
 @ 2.16 g/t (24D006)
 D₄ deformation stage
 = NE trending

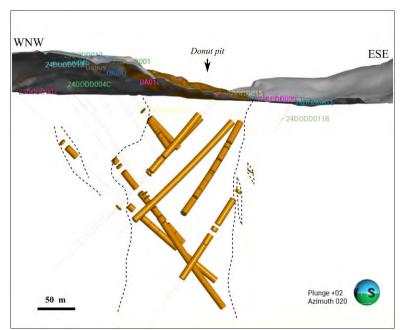


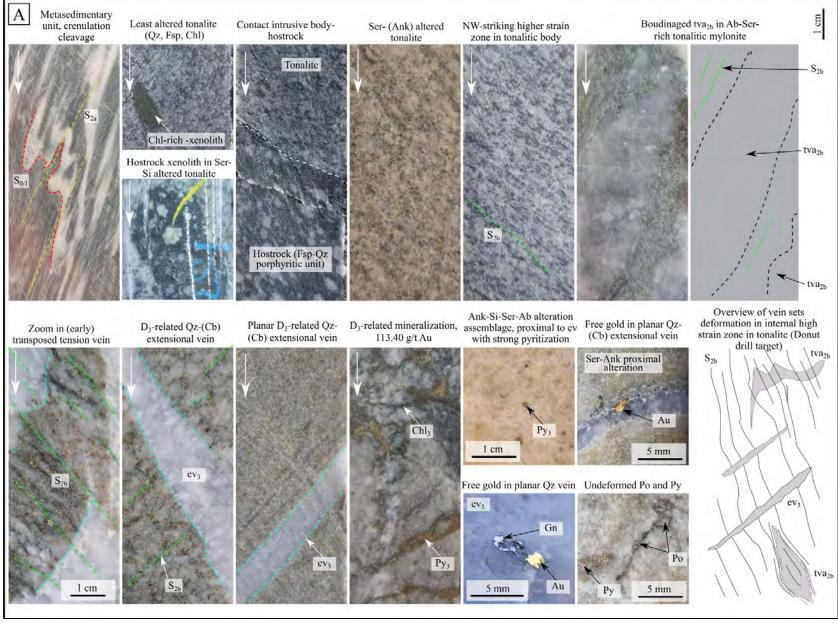




Donut Drill Target

Main Observations



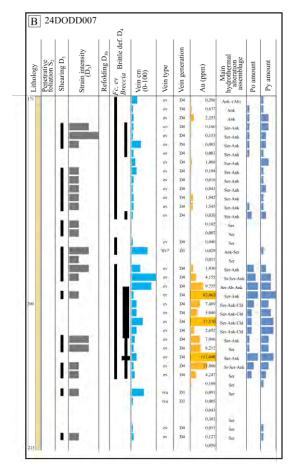


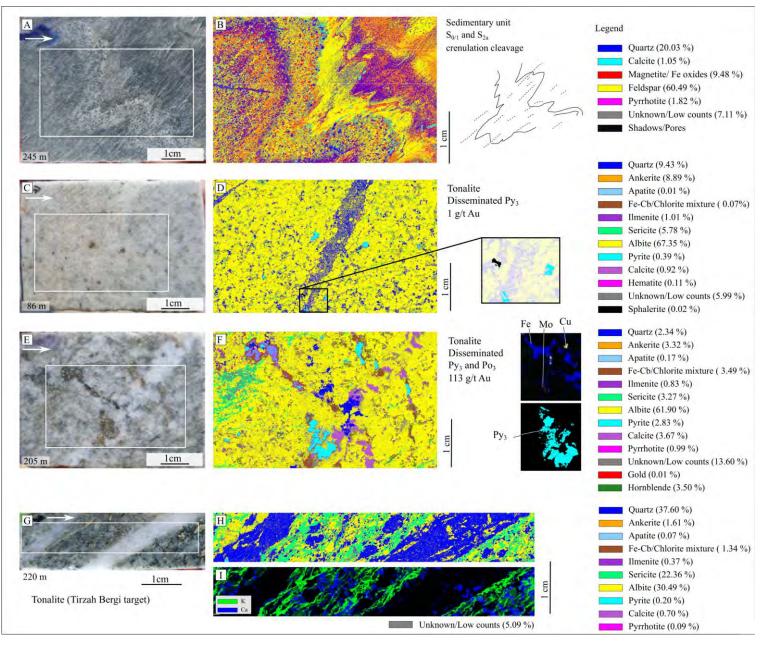




Donut Drill Target

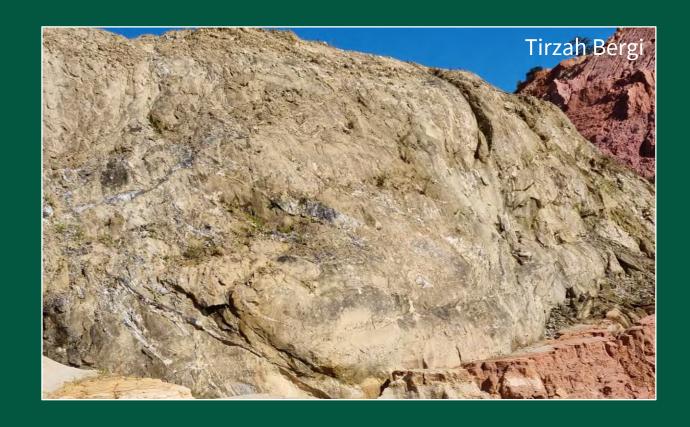
• μ xrf scan







Buese Exploration Target

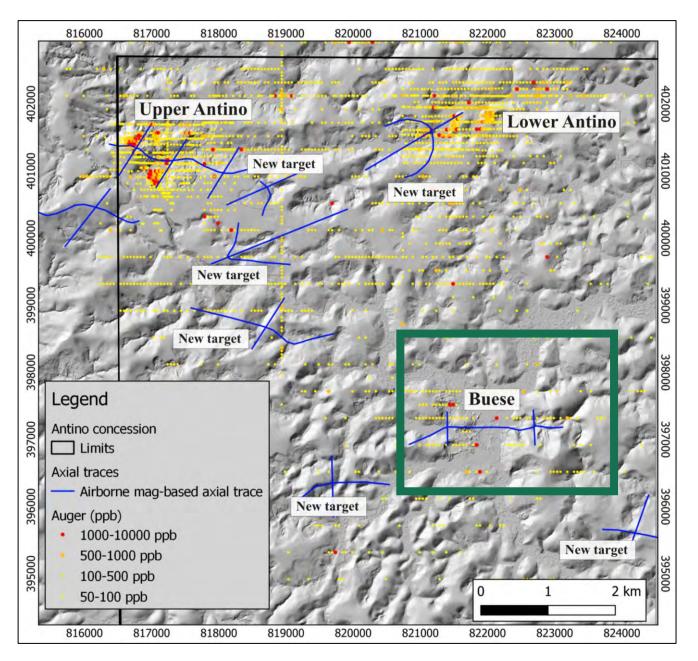






Buese Target



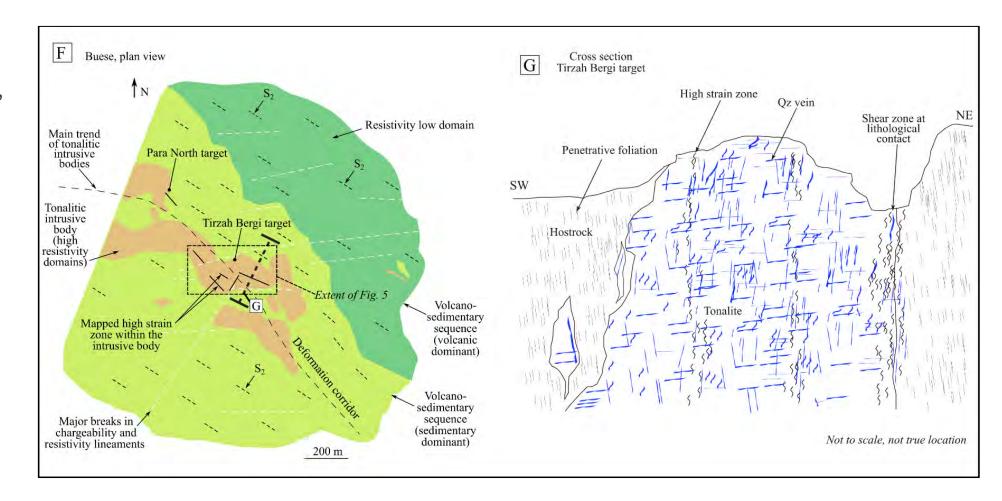






Buese Target Overview

- Spatial distribution of intrusive bodies (based on mapping, historical drilling and IP survey)
- High resistivity domain= tonalitic bodies

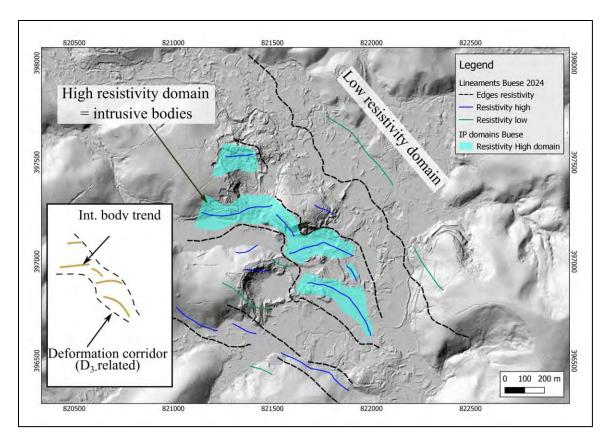


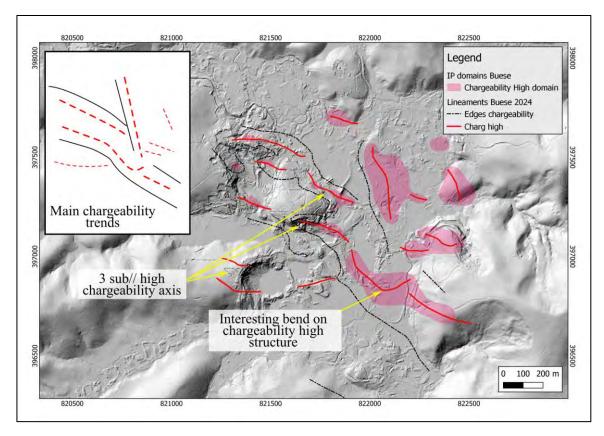




Buese Target Overview

NW trend with E-W bends

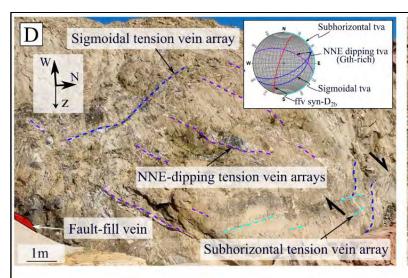


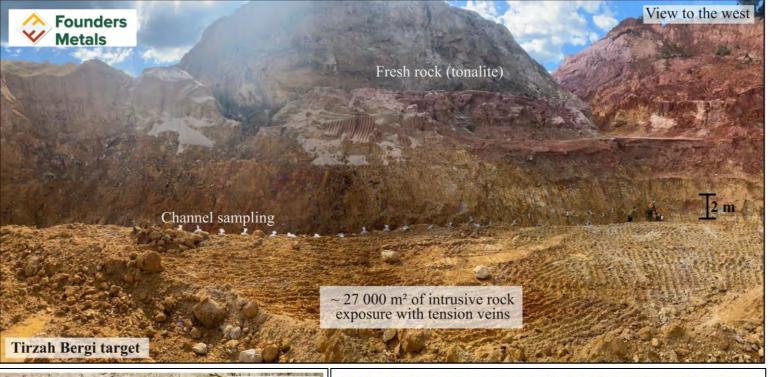


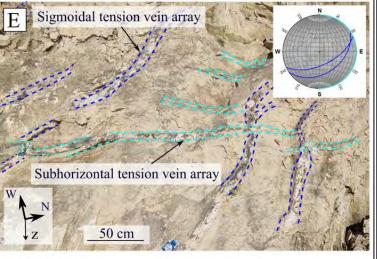


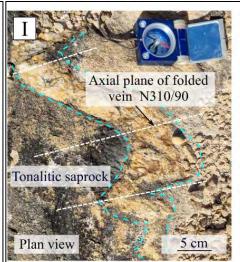
Tirzah Bergi Pit Mapping

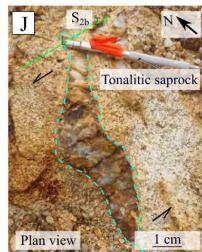
- Large tonalitic body
- 4 sets of Qz vein are identified
- Multiple zones with a strong pyritization









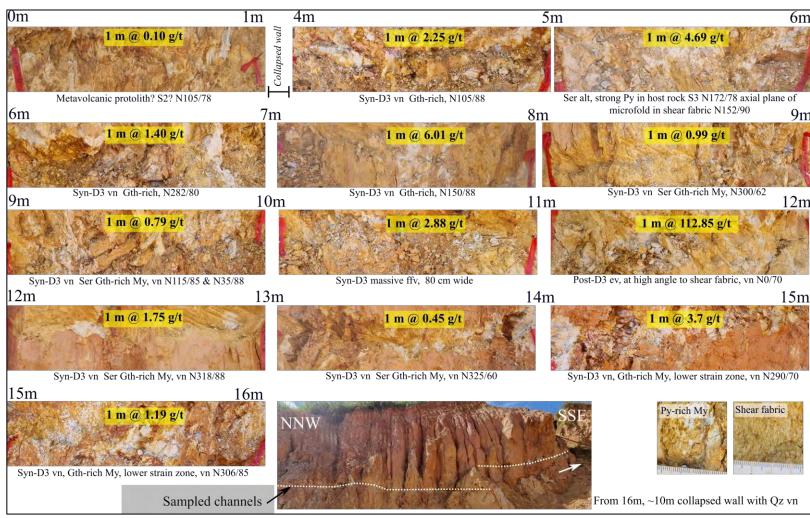




Channel Sampling

Tirzah Bergi

- The main shear zone located at the East of the pit was sampled
- 1m intervals
- 26m wide shear zone
- Although Buese is mainly intrusion-hosted, the shear zone-hosted mineralization itself seems volumetrically more important than at Upper Antino

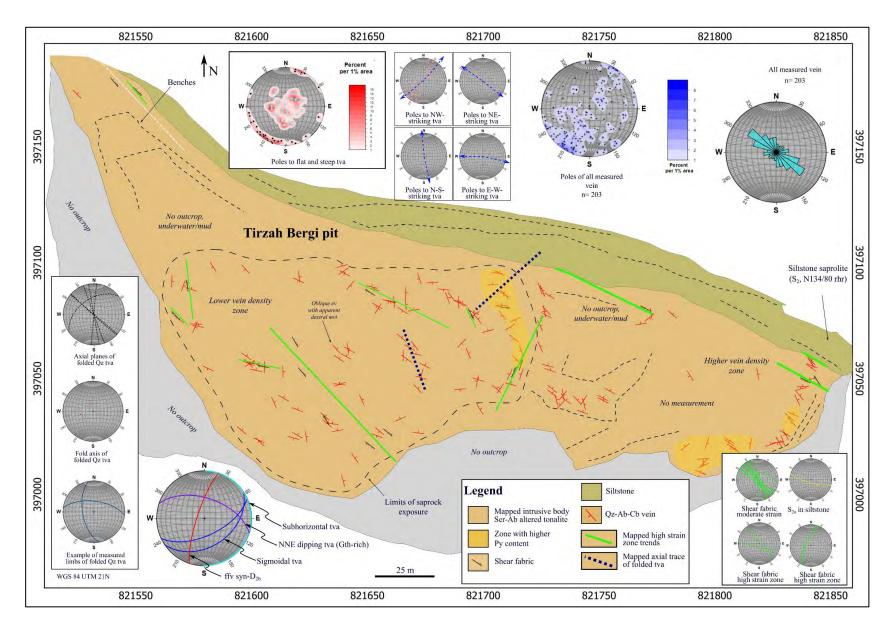






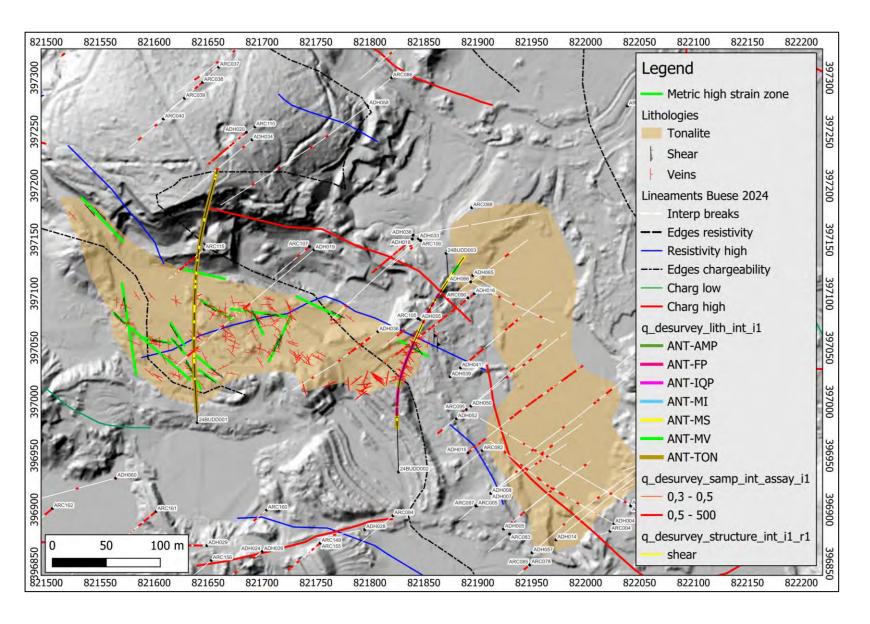
Tirzah Bergi Pit Mapping

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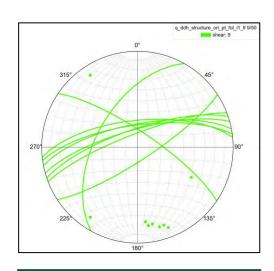


Tirzah Bergi Drilling

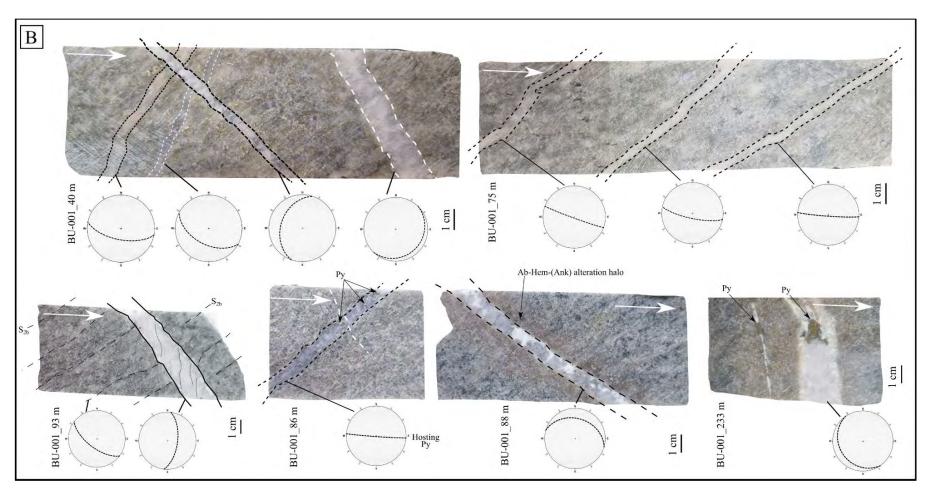




Tirzah Bergi Drilling



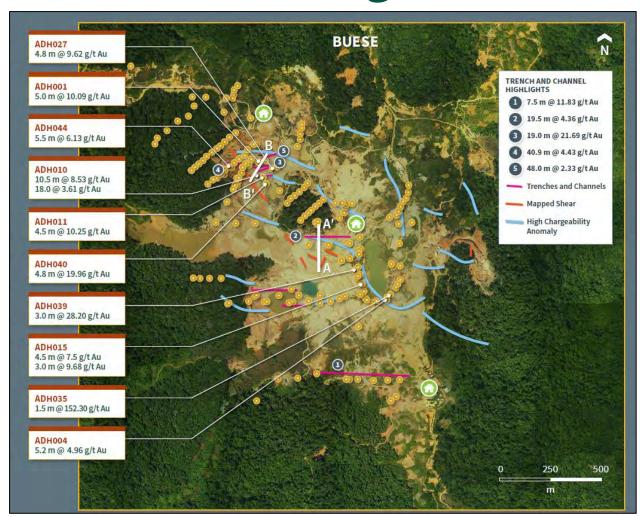
Internal metric Serrich high strain zone

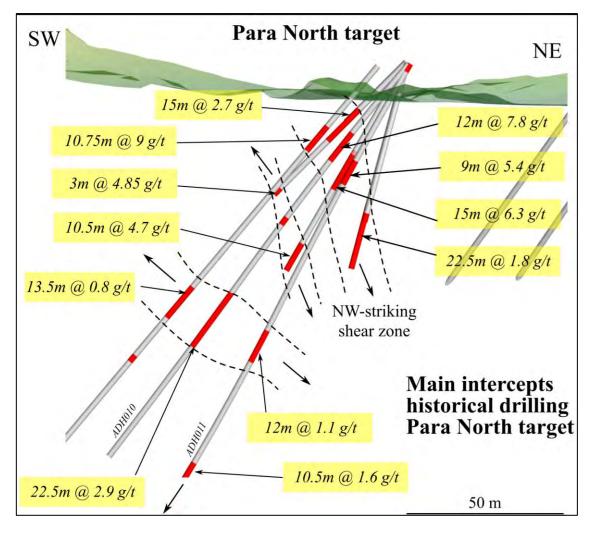






Para North Target



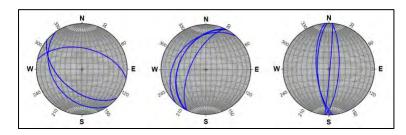


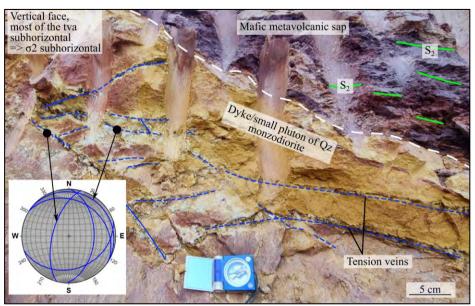


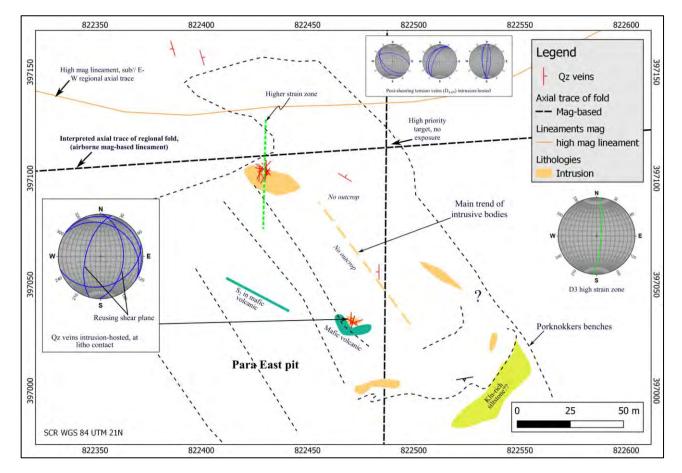


Para East Drilling

- The intrusions are observed as small dykes and lenses
- High strain zone dipping to East
- Gold bearing vein striking N130/50, N200-220 and N-S



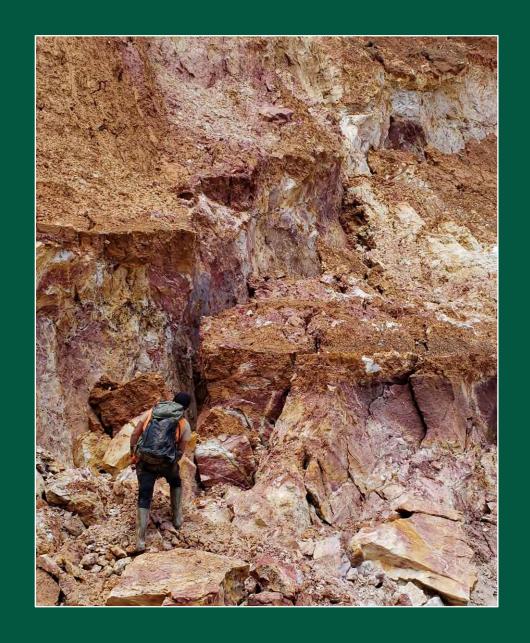






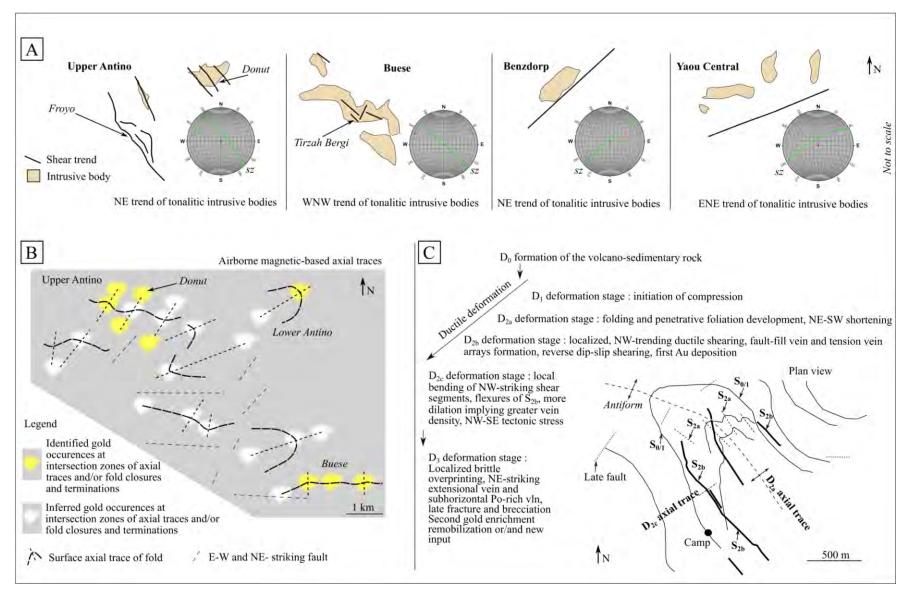
Summary UA & Buese







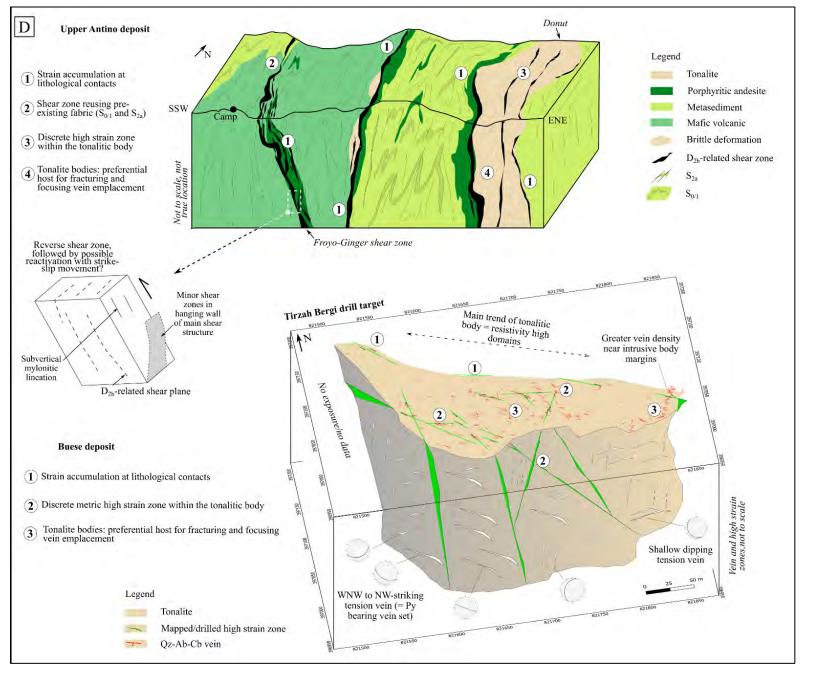
Structural controls from District to mineral scale







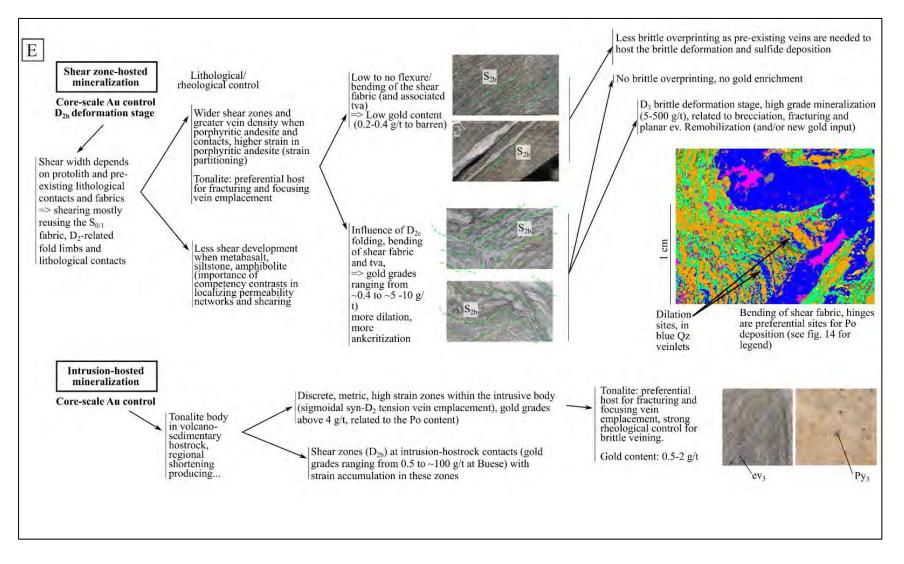
Structural controls from District to mineral scale







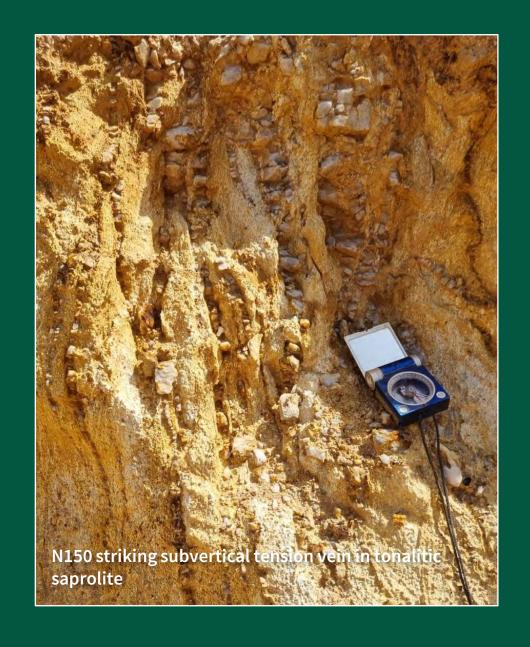
Structural controls from District to mineral scale





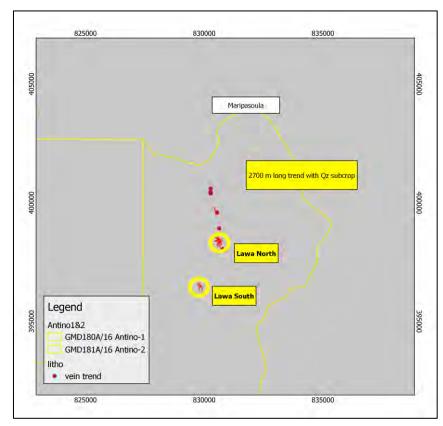
Lawa Targets (Eastern part of the Antino Concession)



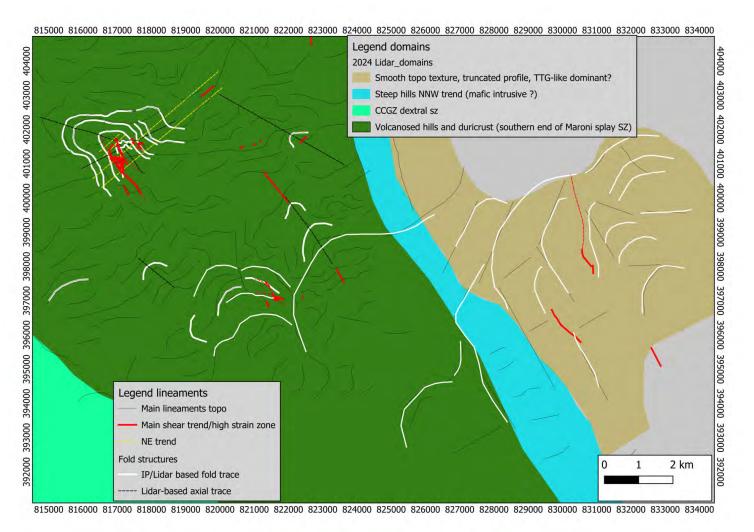


Lawa Target

- Mapping and sampling at Lawa allowed to identify a 2.7 km long trend with Qz vein subcrops preferentially hosted by a tonalite
- Two main pits referred as Lawa North and Lawa South are mapped





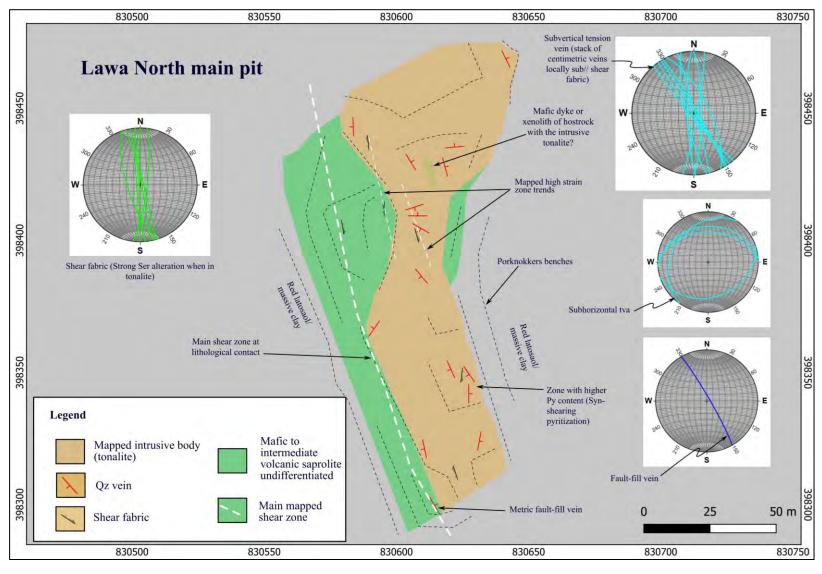




Lawa Target: Lawa North Pit

- Located at contact between a tonalite and a mafic volcanic hostrock
- Main shear with ffv at contact
- N150/85 shear
- Locally strong pyritization



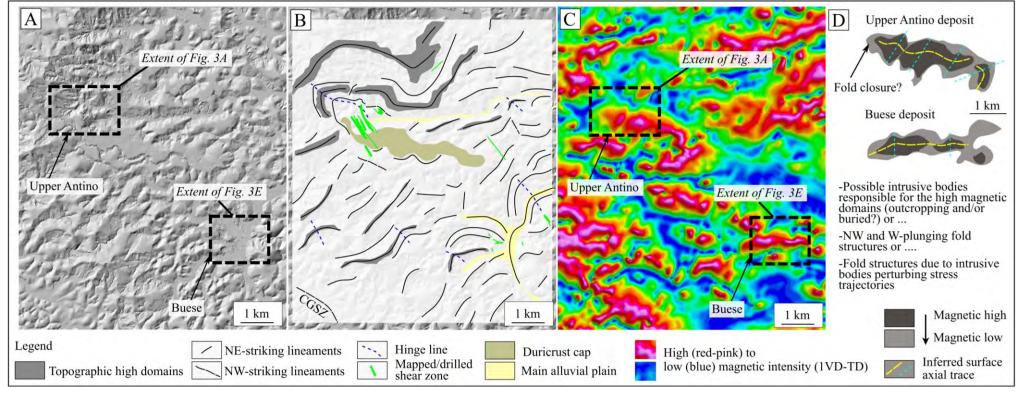






Multiple Targets

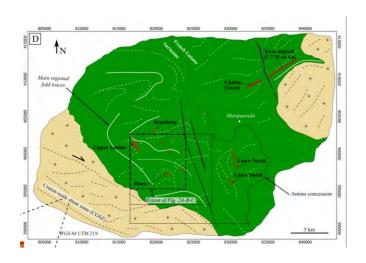
- Magnetic domain are redrawn to highlight the fold pattern
- Fold interference
- NW striking steeply dipping sz occur along the axial trace and limb of fold D_χ with gold enrichment in hinges of $D_{\chi+1}$ folds
- Or Buried intrusion responsible for the high magnetic domain with strain accumulation at edges







Analogies with the Yaou deposit



But: Higher grades at Antino Po not observed at Yaou

- 1.5 M ounces average grade 2.1 g/t
- Shared settings with Buese and Donut pit:
- mostly intrusion-hosted mineralization, strong rheological control, tension veins in intrusive bodies, mainly subhorizontal, Py-rich and Mag-depleted with proximal Ab-Ank alteration halo

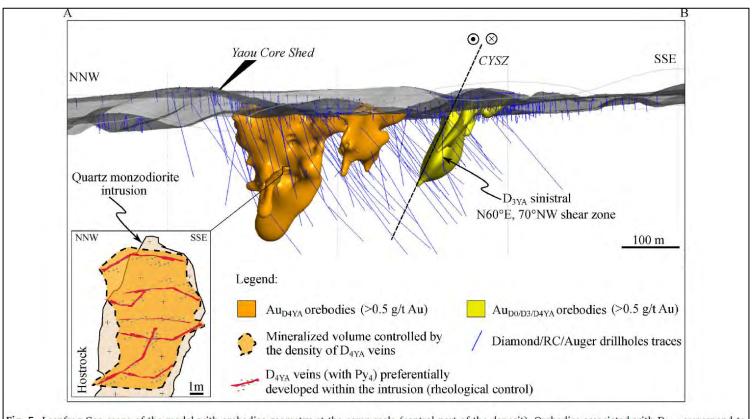


Fig. 5. Leapfrog Geo scene of the model with orebodies geometry at the camp-scale (central part of the deposit). Orebodies associated with D_{4YA} correspond to intrusive bodies enveloppes. See Fig. 4 for location.



