



Serabi's copper-gold district: regional exploration model and drill testing



Tapajós Mineral Province (PA)

Nick Winer
Classic Discoveries

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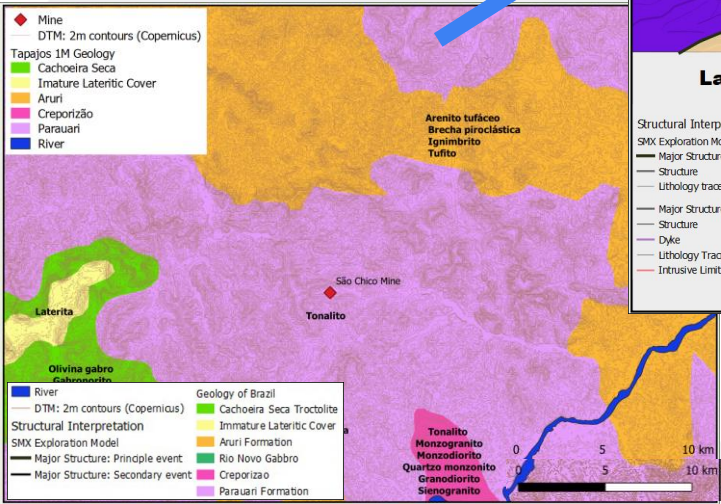
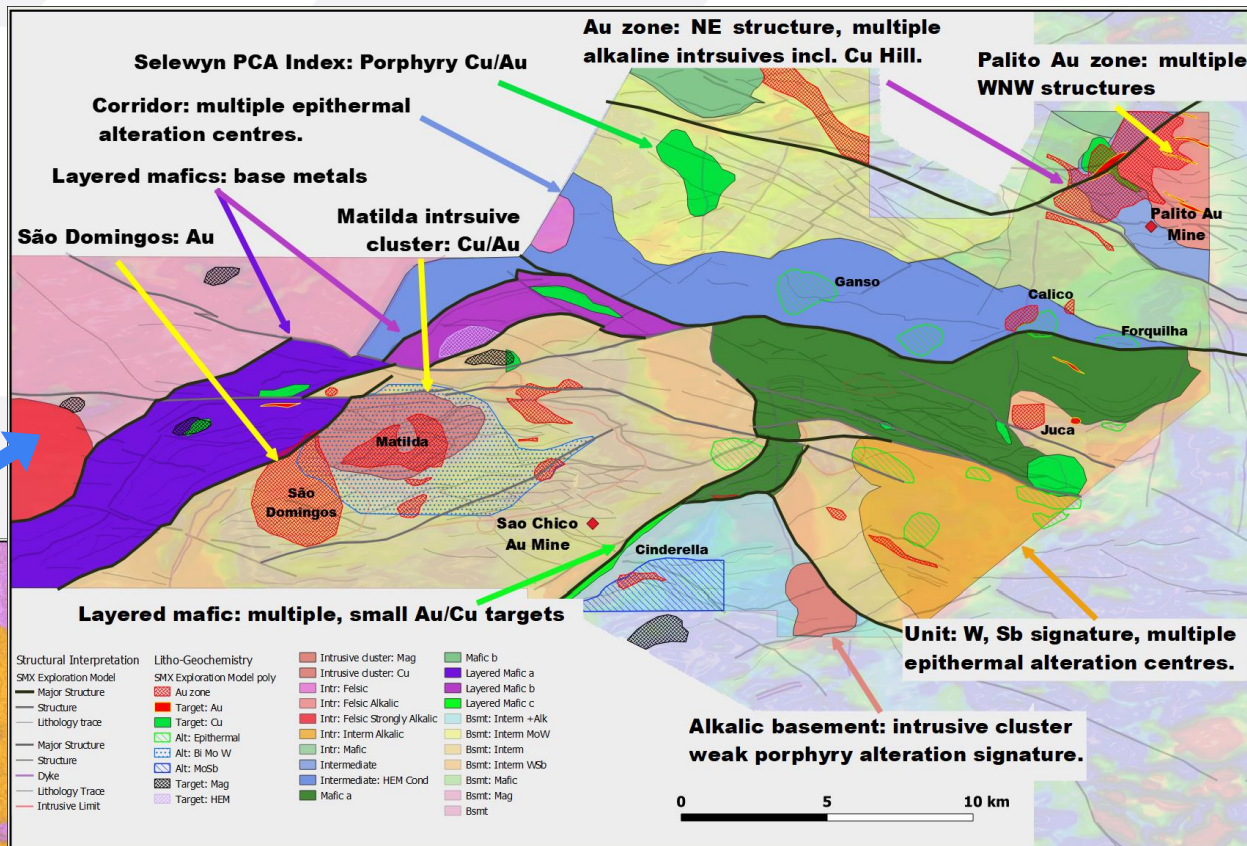
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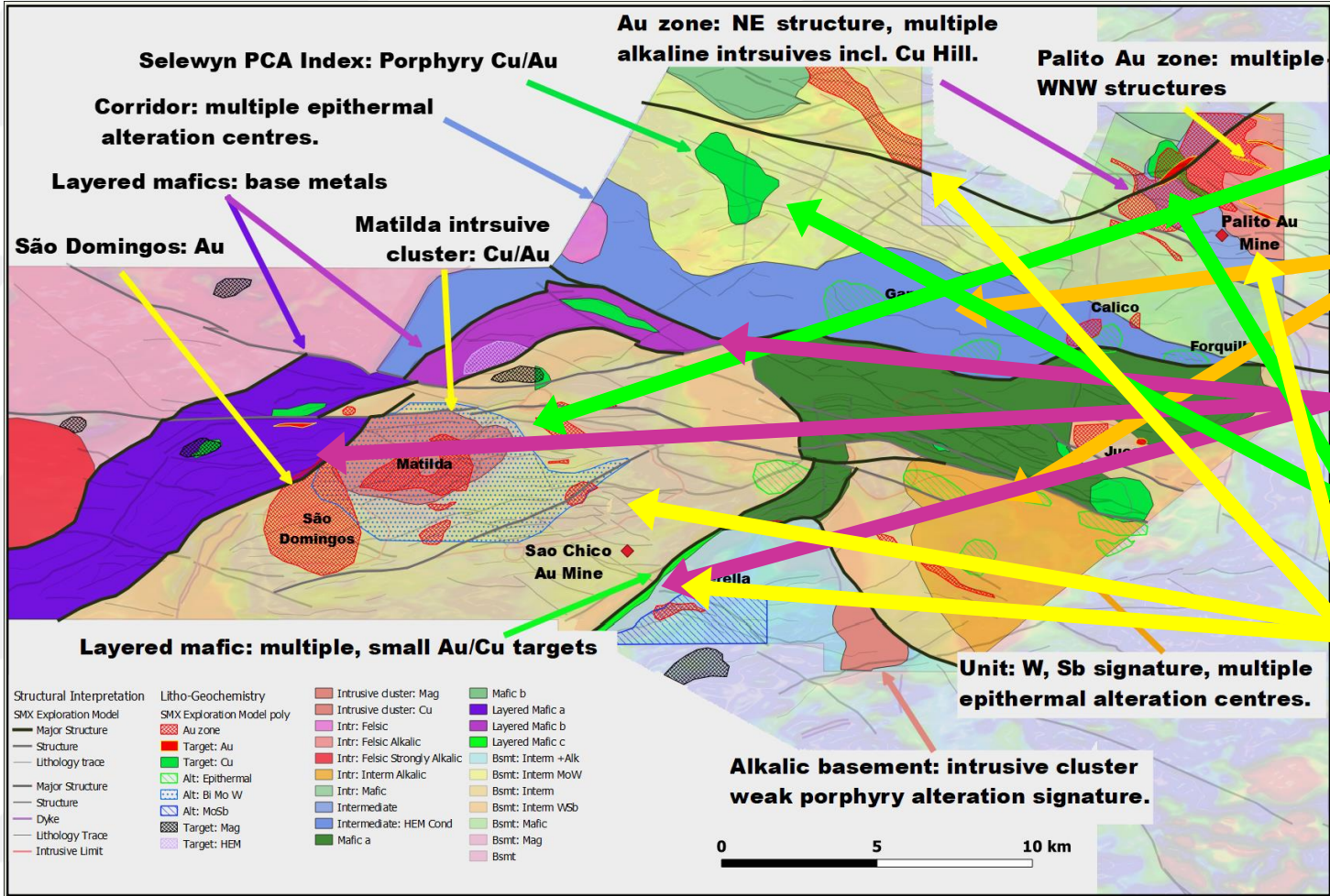
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Objective

Define a 2D Exploration Model within a 600Km² block with regional soil geochemistry.



Weathering regime
 Litho-geochemical units
 Alteration-mineralization system



Matilda porphyry Cu/Au district

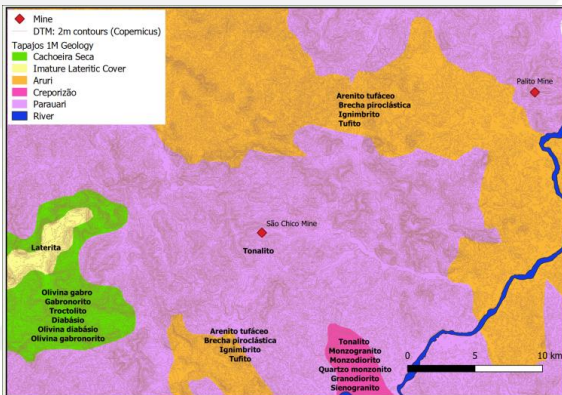
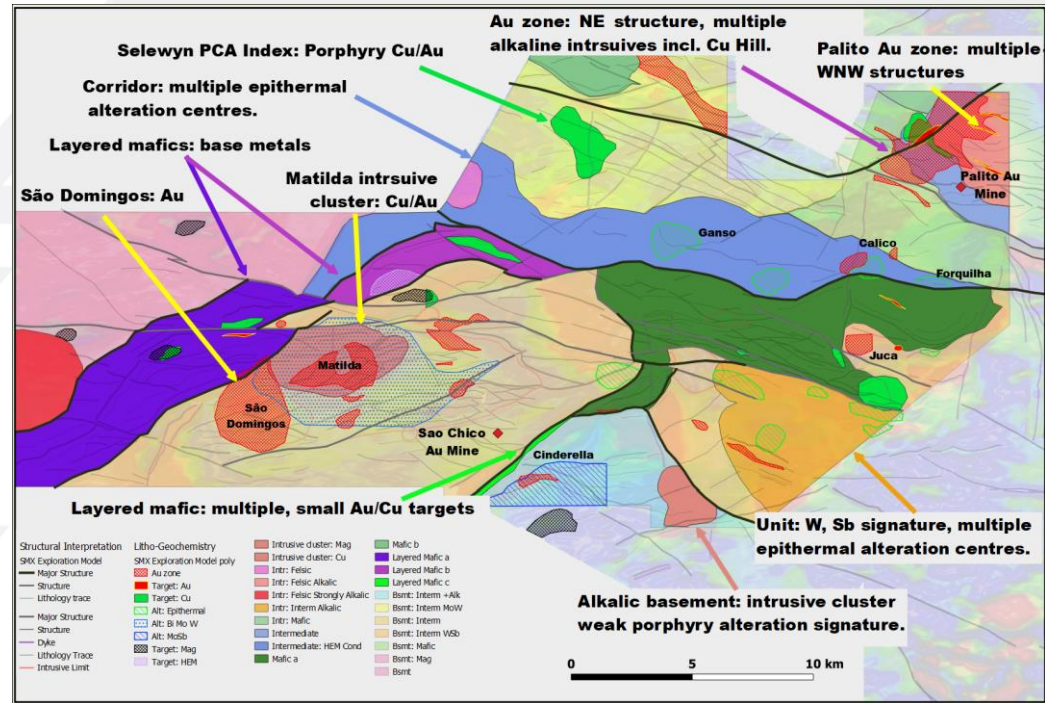
Epithermal / porphyry districts

Layered mafic bodies with base metal potential

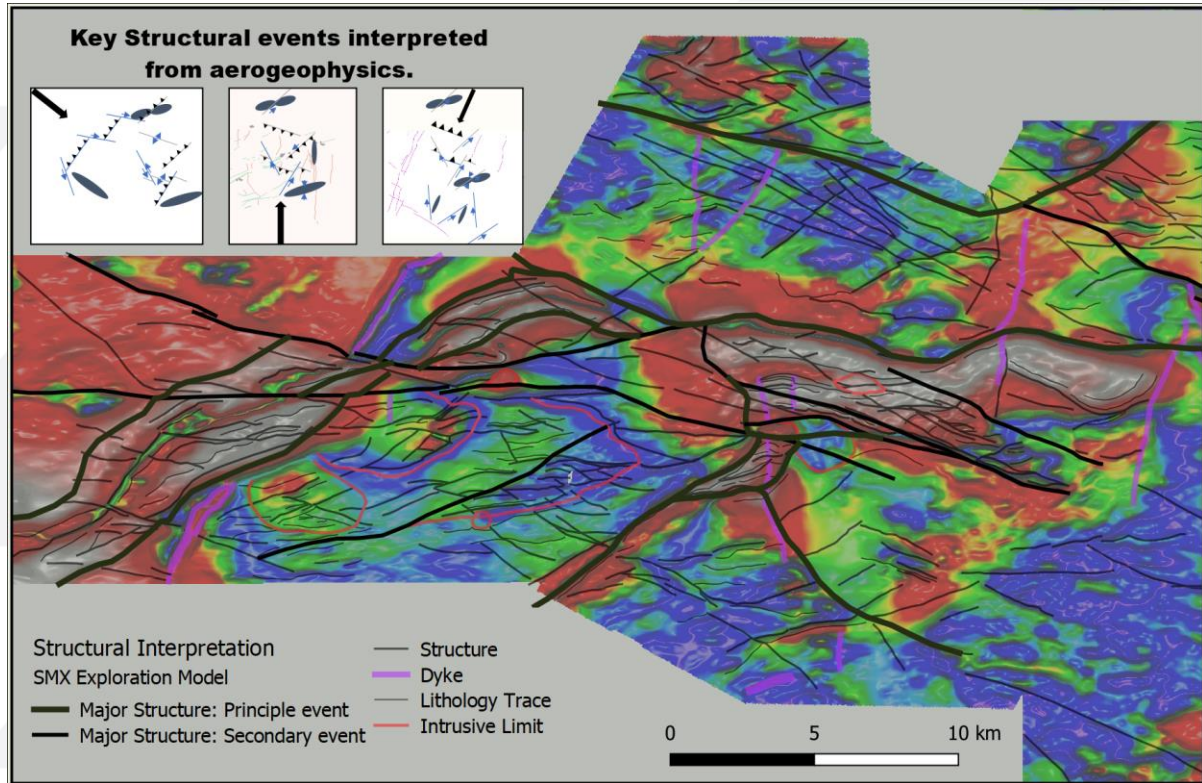
Deeper level porphyry targets

Multiple structurally controlled Au targets

Is it magic?



Compiled Aeromagnetic Survey



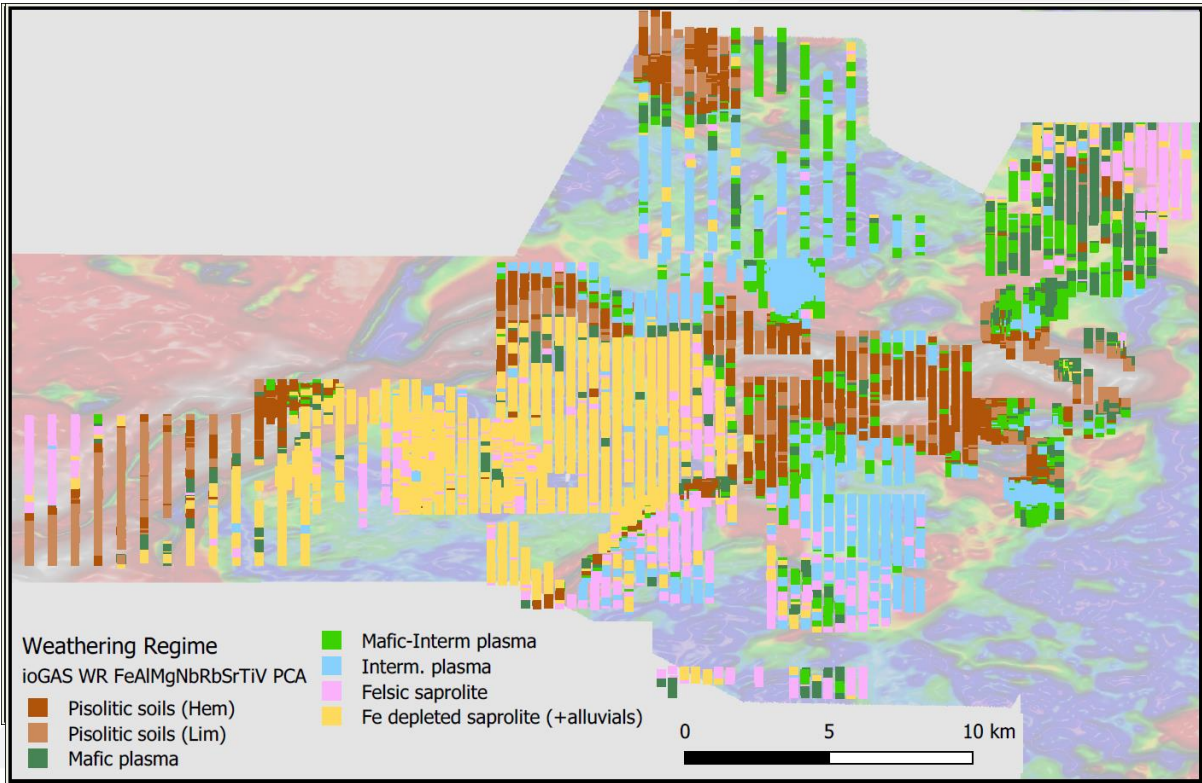
Identify structures, lithologies and intrusions.

Categorize structures by tectonic event.

Correlate structural events with known mineralization.

Analyse the key structural event associated with mineralization. Define favourable structural zones for the control of intrusions / hydrothermal cells.

Weathering Regime



Classification of weathering regime by individual soil sample geochemistry.

- critical for the normalization of the geochemistry based on weathering regime domains.
- Critical for definition of *effective* exploration programs.

Pisolitic soils



Saprolitic soils

Ground geophysics

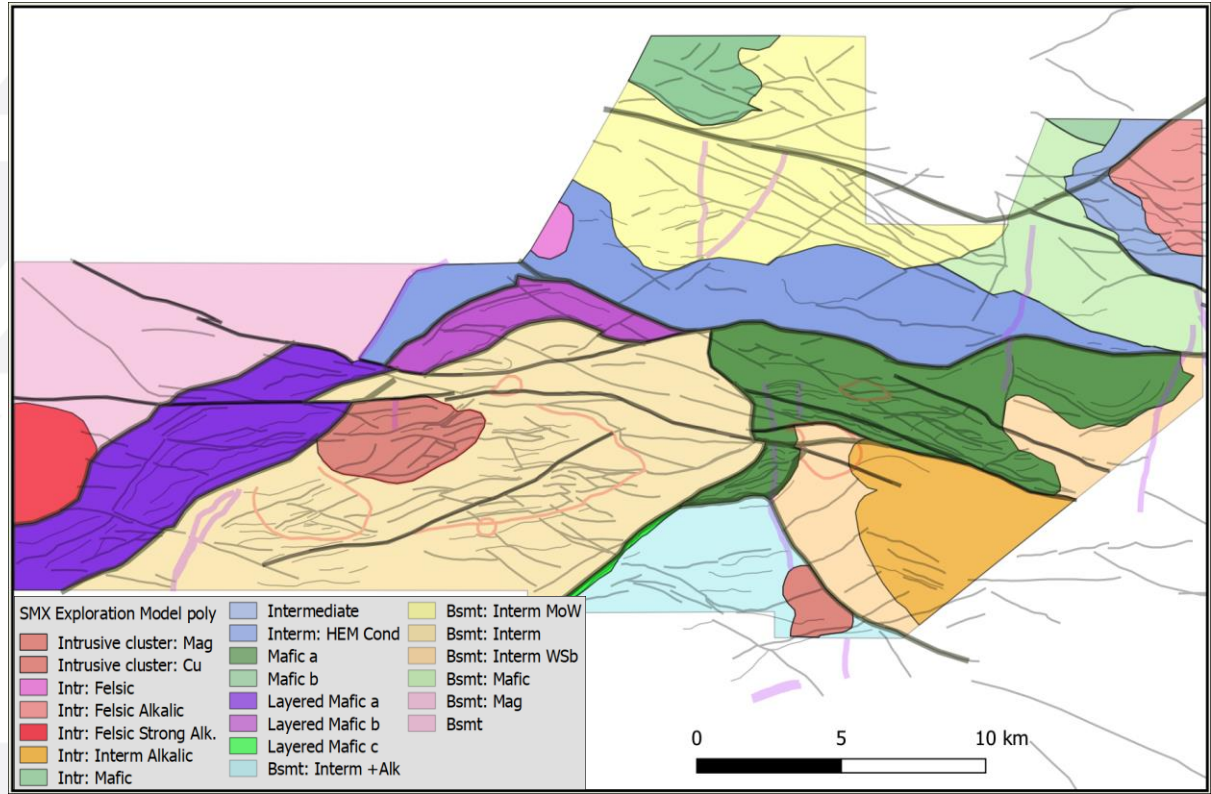
RAB, RC or Diamond drilling

Field mapping, infill soil geochemistry

Trenching, auger, ground geophysics

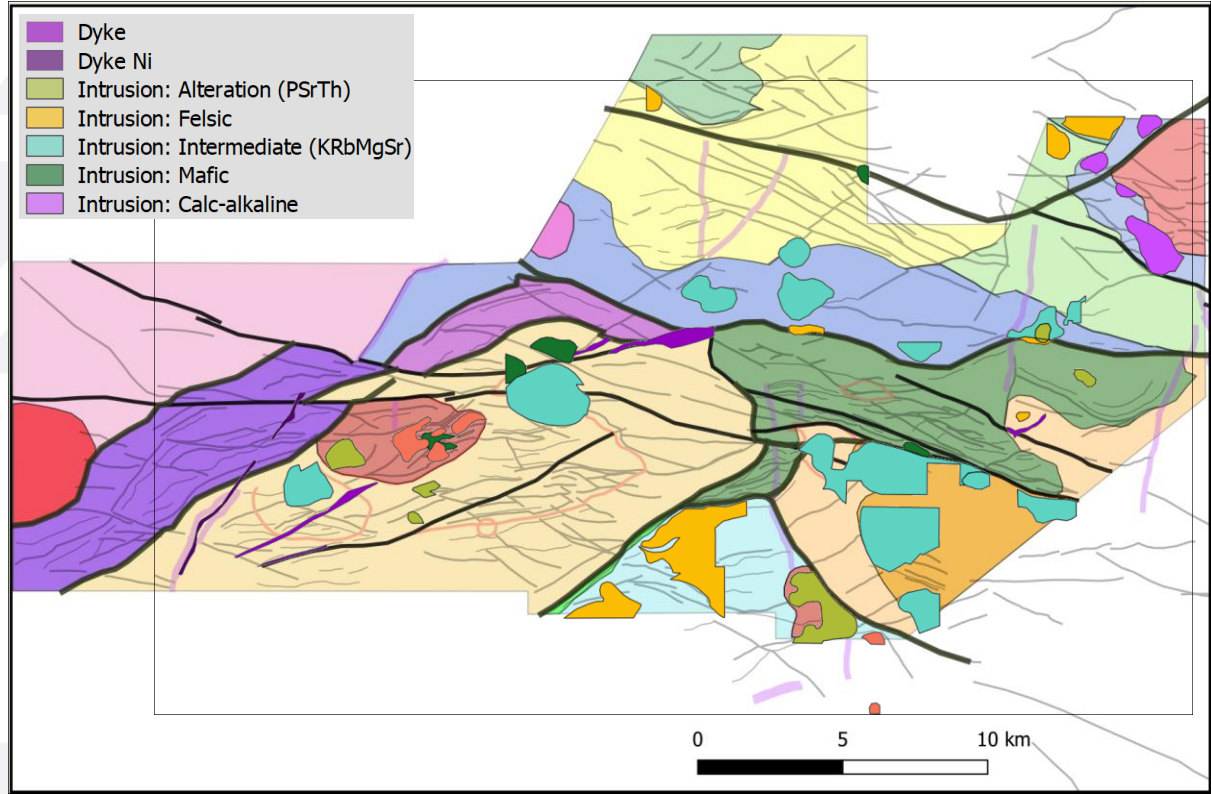
Lithology - Domains then Units

- 3 step process
 - Lithology domains



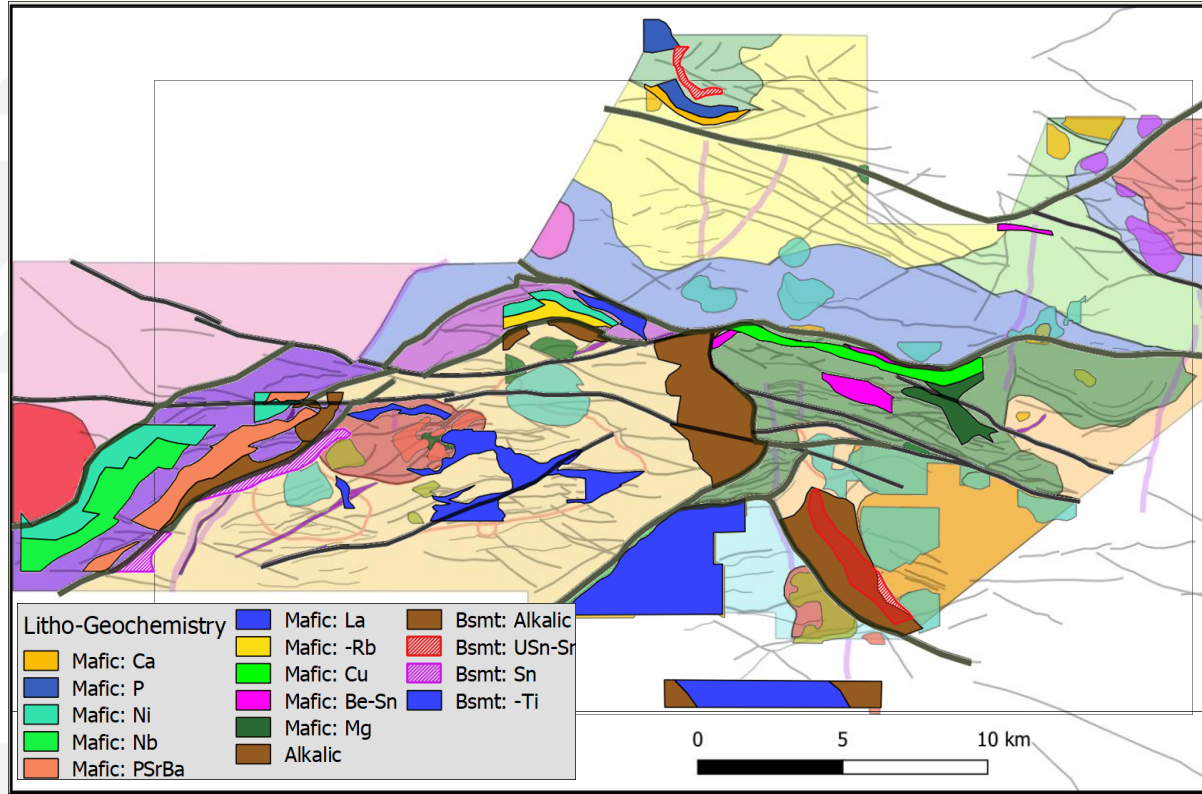
Lithology - Intrusions

- 3 step process
 - Lithology domains
 - Intrusions / stocks



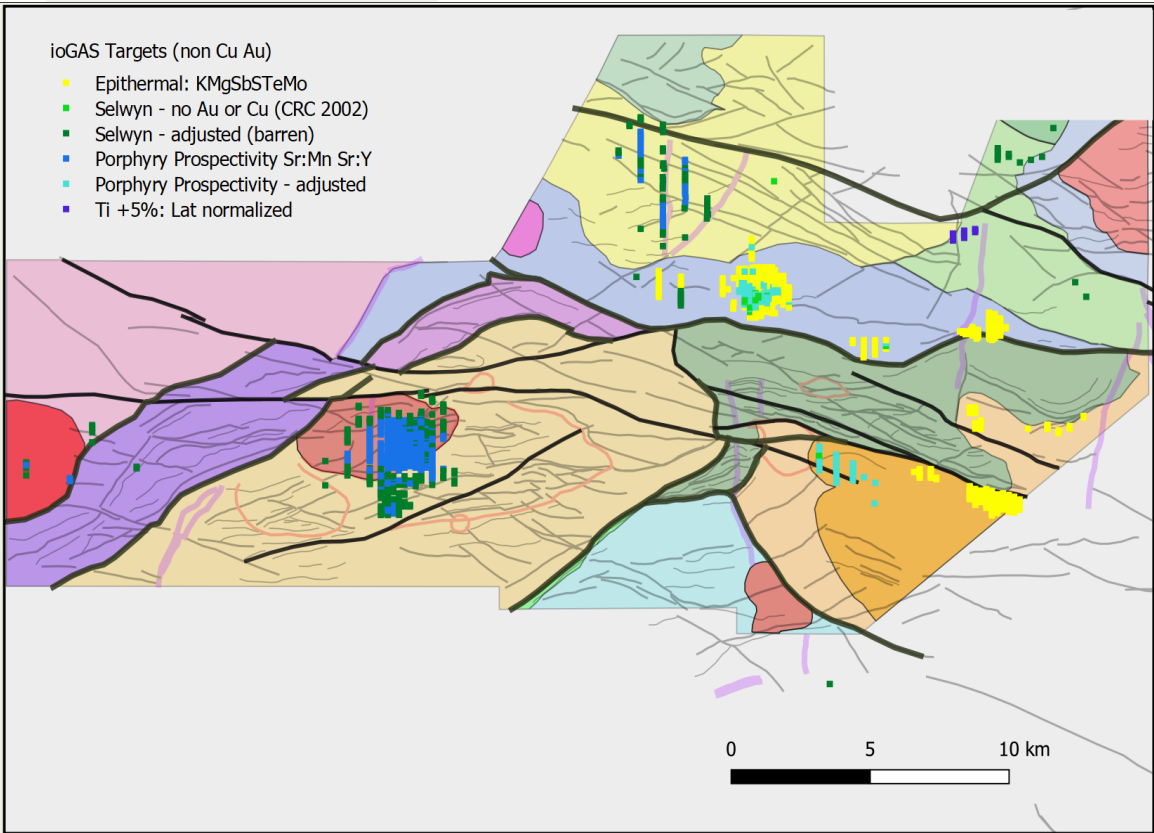
Lithology - Detail

- 3 step process
 - Lithology domains
 - Intrusions / stocks
 - Lithology units (normalization by domain)
- In each step above it is vital that the geochemistry and geophysics are consistent. They will not show the same features, but the features they show must be complimentary. If not, the interpretation is wrong.

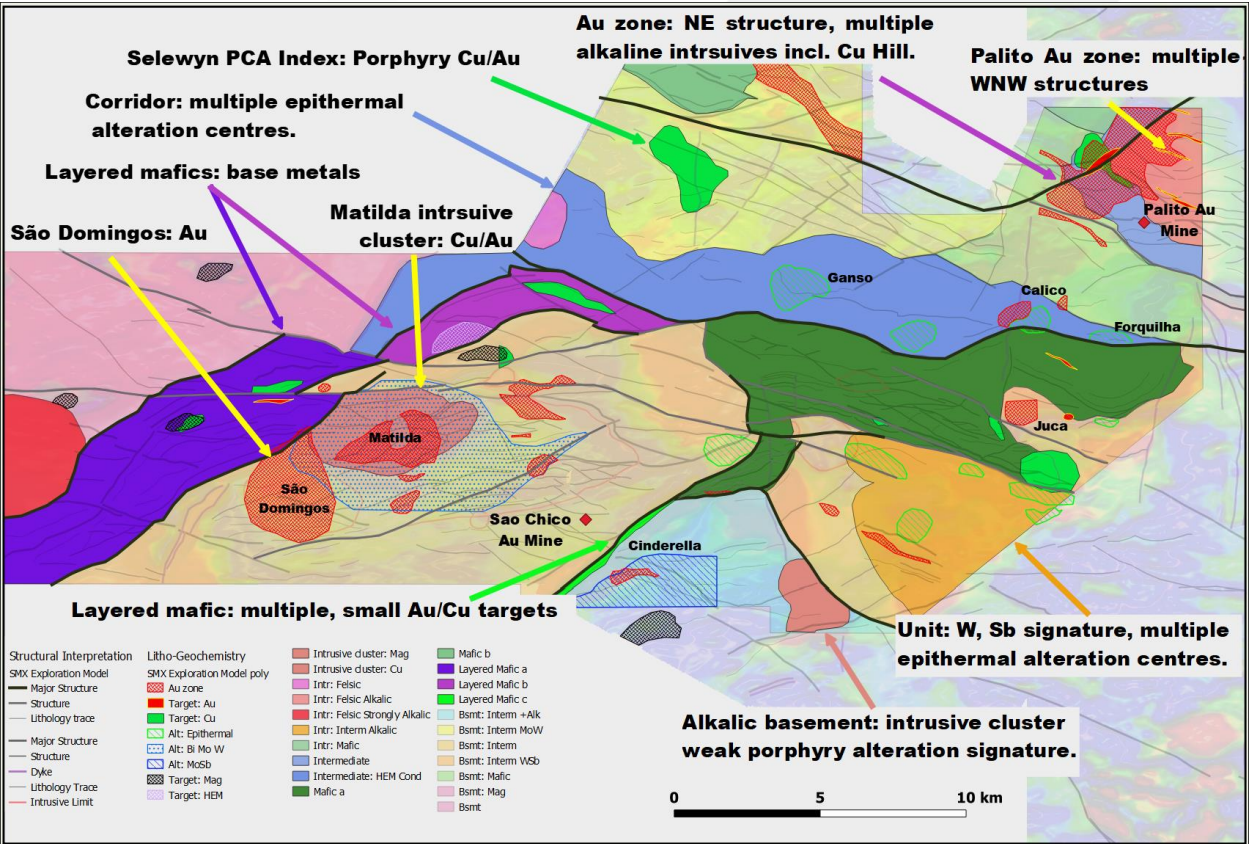


Alteration and Pathfinder Associations

- In addition to the traditional methods for definition of alteration and drill targets.
 - normalization of data for the different weathering regime or lithology domains, and
 - use of routines/diagrams developed by 3rd parties.
- Caution is required in the use of the above, and ML/AI, but incredibly, upper management seem to understand these better than us, as more commonly one receives stronger management support if these are included.
- NB: Make sure you understand what has been done.



Conclusions: Exploration Model and Strategy



Matilda porphyry Cu/Au district

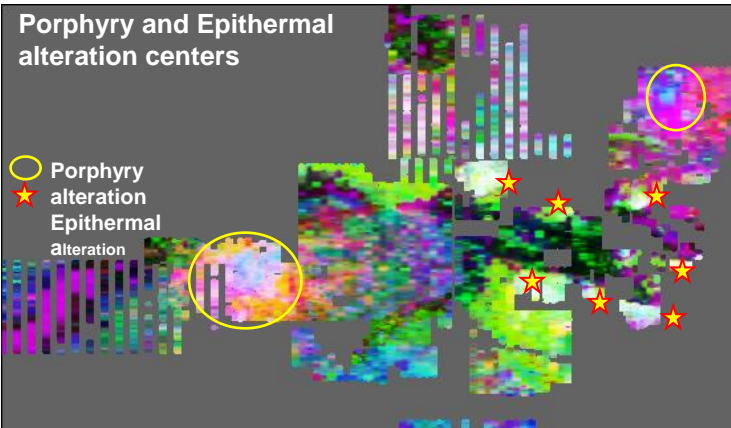
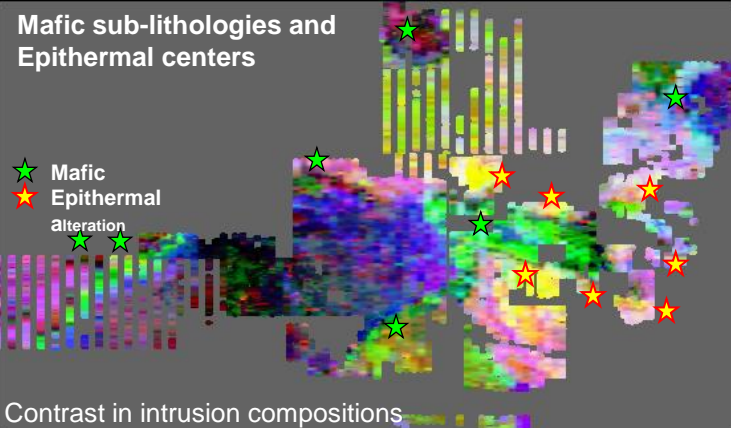
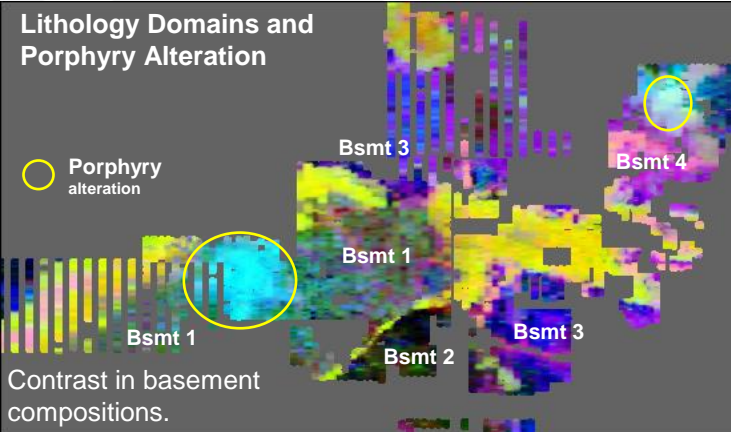
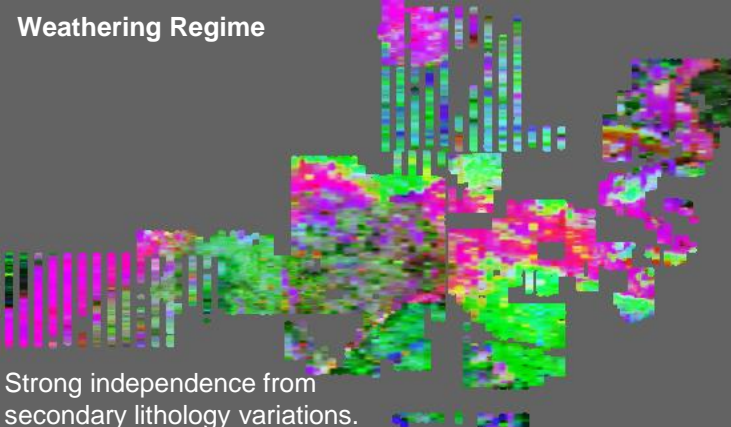
Epithermal / porphyry districts

Layered mafic bodies with base metal potential

Deeper level porphyry targets

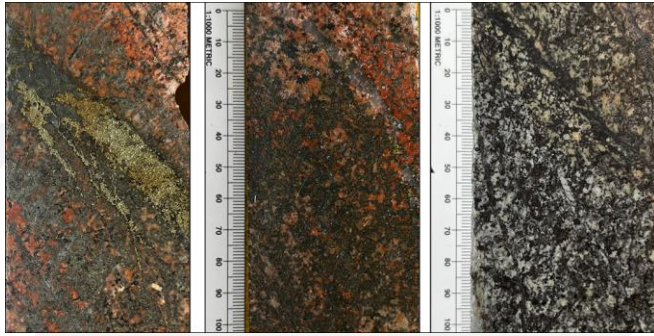
Multiple structurally controlled Au targets

Some examples of the data used

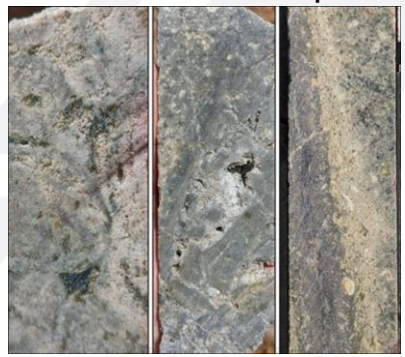


Lithologies intersected

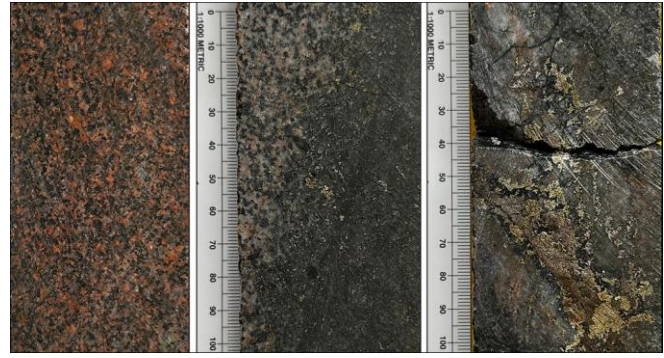
Matilda Alkalic Porphyry



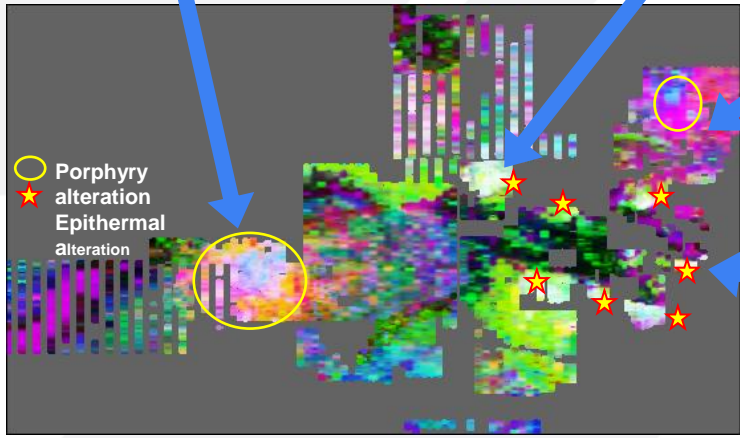
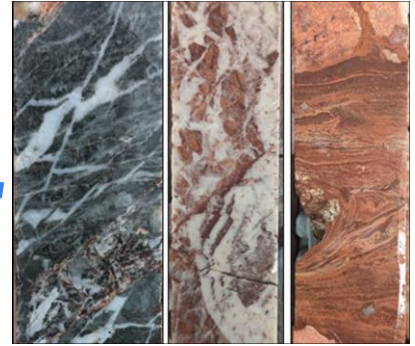
Ganso Lithocap



Palito Au Mine



Forquilha Epithermal Vein



Conclusions

- It is common to find projects with large databases but where these ***datasets are not fully utilised***.
 - In this example, in addition to the ~7000 soil samples Serabi generated in 2023 it had another 7000 samples in its database generated on targets over the course of 11 years. The first Aerogeophysical survey was in 2008. Like in so many cases, the multi-element data and aerogeophysics had been used by the project team, ***but not fully interpreted nor integrated***.
- My passion is the interpretation and integration of regional, project scale and , target and drill hole multi-element geochemistry and/or geophysical datasets. It has generated multiple discoveries, including a world-class Cu-Au discovery in Colombia.

Acknowledgements

I would like to acknowledge the support Serabi Gold, in particular that of Chris Spurway and Rogerio Alves who invited me to participate in this exciting project. Also the field geologists, Edgar Hole, Jessica Sousa and Carlos Barbosa who worked so diligently on the 2023 exploration program.

The contribution and support of Vale was fundamental in providing the financial backing for the Project, which allowed the generation of this dataset.



Nick Winer: Key achievements

(Regional geochemistry and geophysical programs)

- **Mali: 1989 - 1991**
 - Interpretation of the UN multi element soil program in the Syama district
 - Discovery of the Syama North and Bonanso deposits
- **BHP: 1996 - 1999**
 - Brazilian foldbelt regional stream sediment sampling program.
 - Amapa regional soil and sampling and Aerogeophysical program
- **AngloGold: 1999 - 2001**
 - Amapa regional Spectrem survey
- **Horizonte Minerals 2003 - 2006**
 - Malvinas regional geochemistry and Exploration Strategy
 - Used multi-element drilling data to re-model the Araguaia Ni deposit, re-classifying resources and demonstrating the upside potential
 - Rio Grande do Sul and Confers district of Pará: major stream sediment surveys. Discovery of the Santana Phosphate deposit.
 - In Pará the Falcão Exploration model based on integrated aeromagnetic and soil geochemistry interpretation.
- **AngloGold: 2012 - 2015**
 - Colombia: discovery of the 'blind' Nuevo Chaquiro' Cu-Au porphyry.
 - (Maiden Resource: 604Mt @ 0.65% Cu, 0.32g/t Au, Reserve: 104.05Mt @ 1.21% Cu, 0.66g/t Au.)
- **Miraflores: 2016 - 2018**
 - Quinchia regional aerogeophysics and geochemistry: 2D Exploration model and Exploration Strategy
 - Andes regional aerogeophysics and geochemistry: 2D Exploration model and Exploration Strategy
- **Great Panther: 2019 - 2022**
 - Regional soil program over the Amapari district
 - Tucano Mine: Application of multi-element core geochemistry to understand the mineralization and resolve modelling issues
 - Guanajuato epithermal Ag mine: Led the team that generated the first 3D model of the world-class a major
- **Serabi Gold: 2022 - 2023**
 - Palito region: regional aerogeophysics and geochemistry interpretation and integration: 2D Exploration Model



Obrigado!

Nick Winer

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