# GEO Exploration

## High Technology Exploration


**4440 PGA Boulevard Suite 600,**
**Palm Beach Gardens, Florida 33410, USA**

# GeoExploration - Capabilities

- ✓ **GeoExploration LLC helps in generating wealth by combining and assessing the multiple layers of information to reach to the final conclusion.**
- ✓ **Our Experts come from varied field of knowledge relevant to the mineral exploration assignments which makes us one of the unique presence in industry.**

- **Technology centric exploration**
- Remote sensing
- Structure focus mapping and sampling
- GIS – Exploration data integration
- GPS / DGPS survey
- Deep geophysics
- **Proprietary Cutting edge exploration technologies**
- CAGE-IN
- Gold proxy index
- Error free exploration databases
- Structural modelling

- **High resolution remote sensing interpretation in**
- Exploration planning
- Geological and Structural mapping
- Forest studies, land use mapping
- GIS integration and interpretation
- Prospect identification
- **Regional reconnaissance**
- **Field mapping, sampling**
- **Drill hole planning, logging, sampling**
- **Sample preparation**
- **3D geological modeling**
- **Compliant reports**
- **Reviving old Mines**

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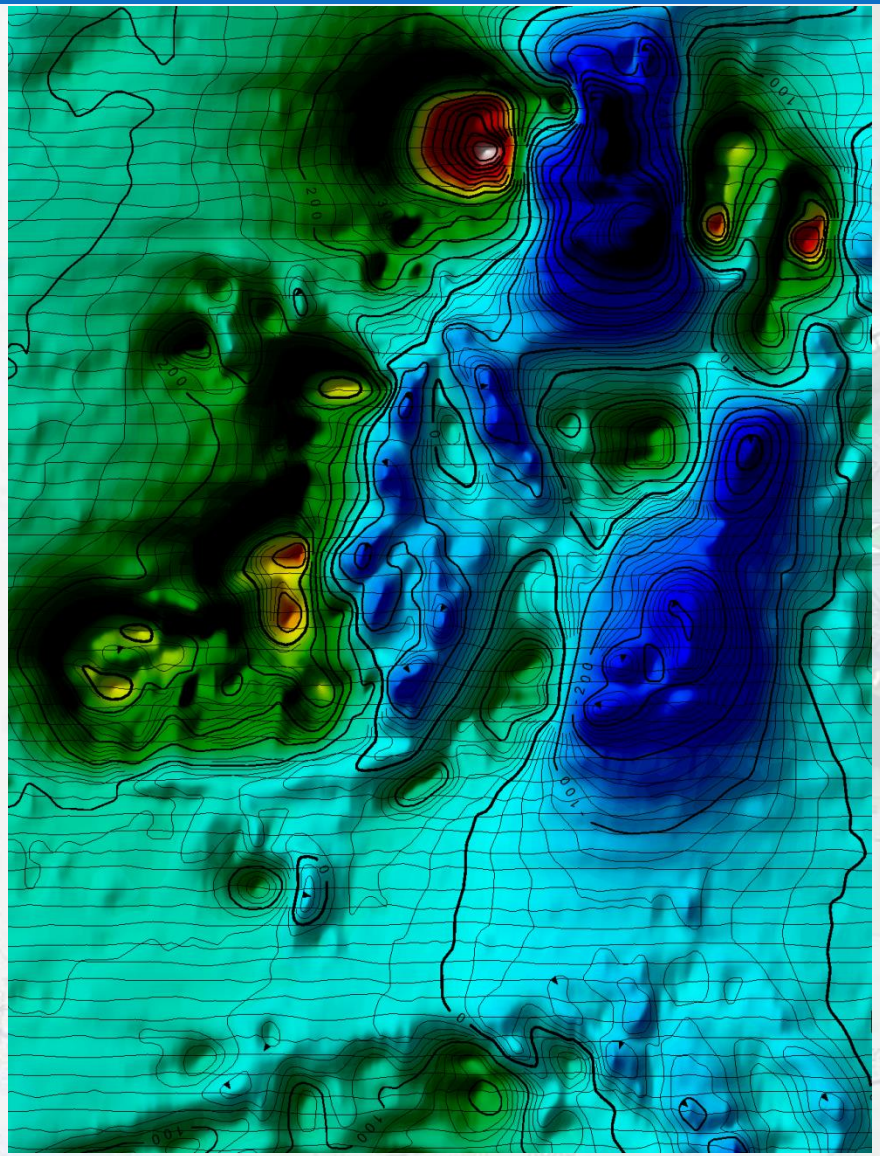
# CAGE-IN: Constrained Area Gridding for Enhanced Interpretation

- CAGE-IN: new proprietary data interpretation technology.
- CAGE-IN uses multipass segmentation of geophysical data.
- Data is constrained with geology and then segmented to extract geological interpretation
- **Unmasks subtle anomaly contrasts**.
- Found successful application in **identifying targets and focusing exploration efforts**.
- Suitable tool for **re-interpretation of areas using existing ground and airborne** mag, rad, EM and grav data.
- CAGE-IN would be potentially helpful in identifying subtle or buried targets.

# CASE STUDY 1 – PORPHYRY



Regular TMI data

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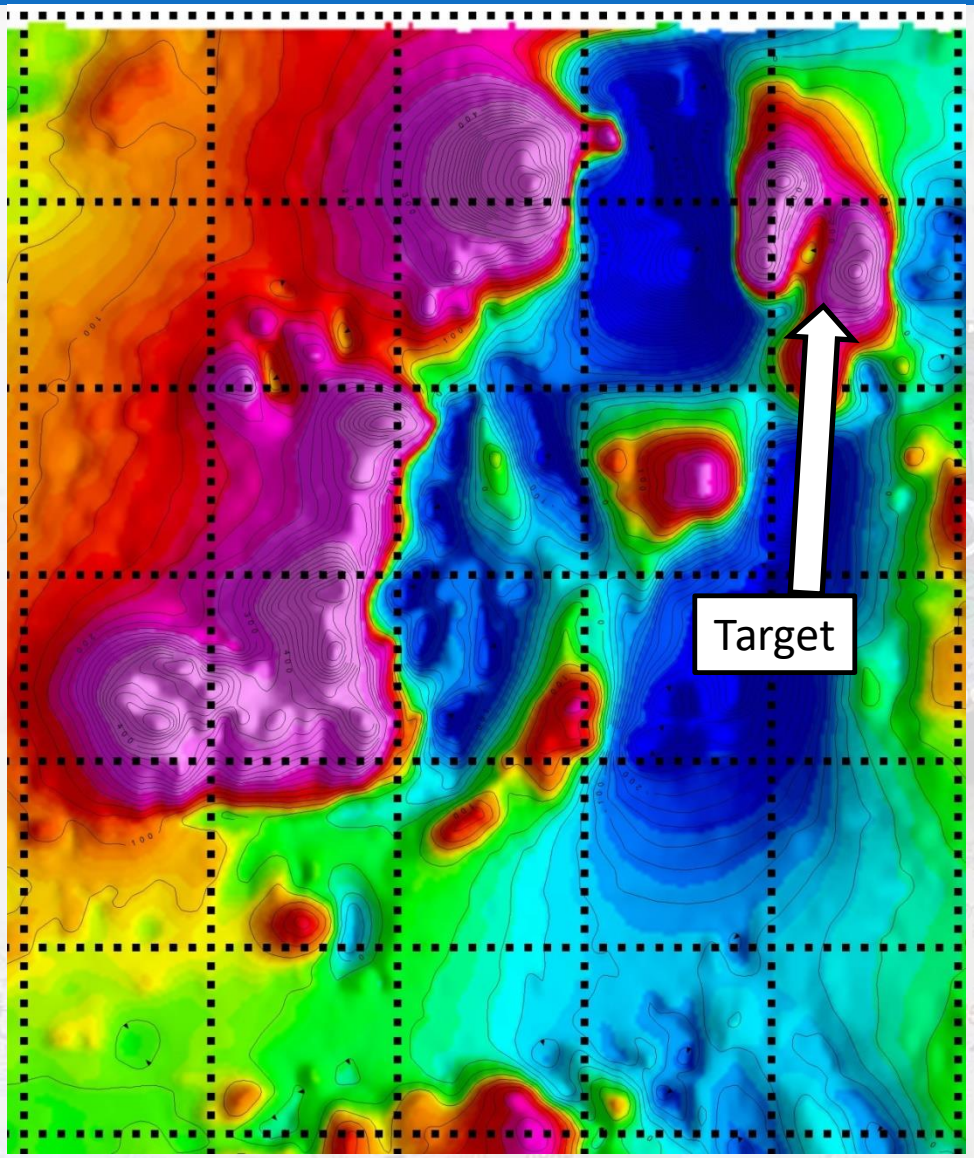
# CASE STUDY 1 – PORPHYRY




Routine geophysical enhanced data

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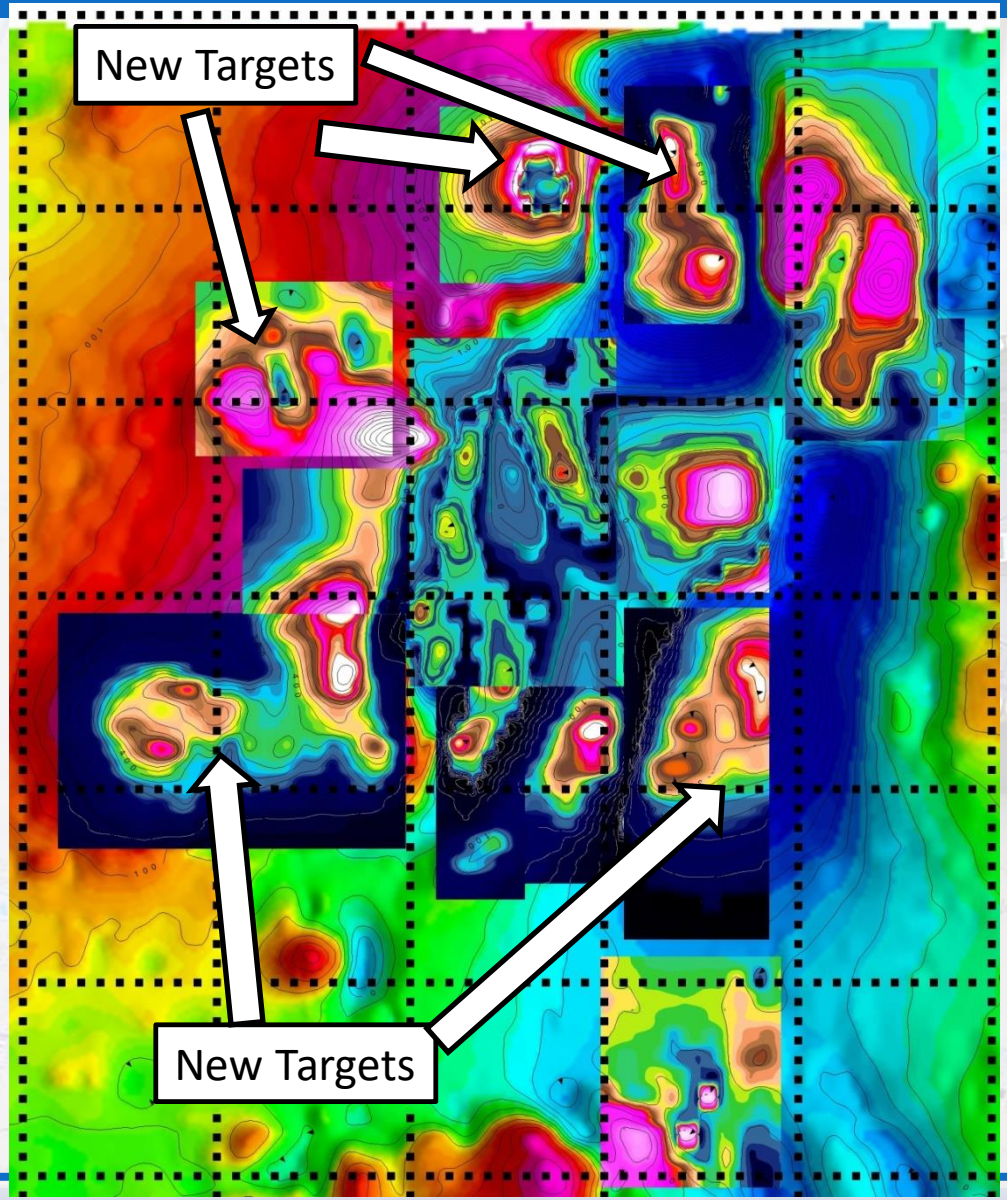
# CASE STUDY 1 – PORPHYRY




Enhanced TMI using CAGE-IN technology is able to identify multiple potential targets.

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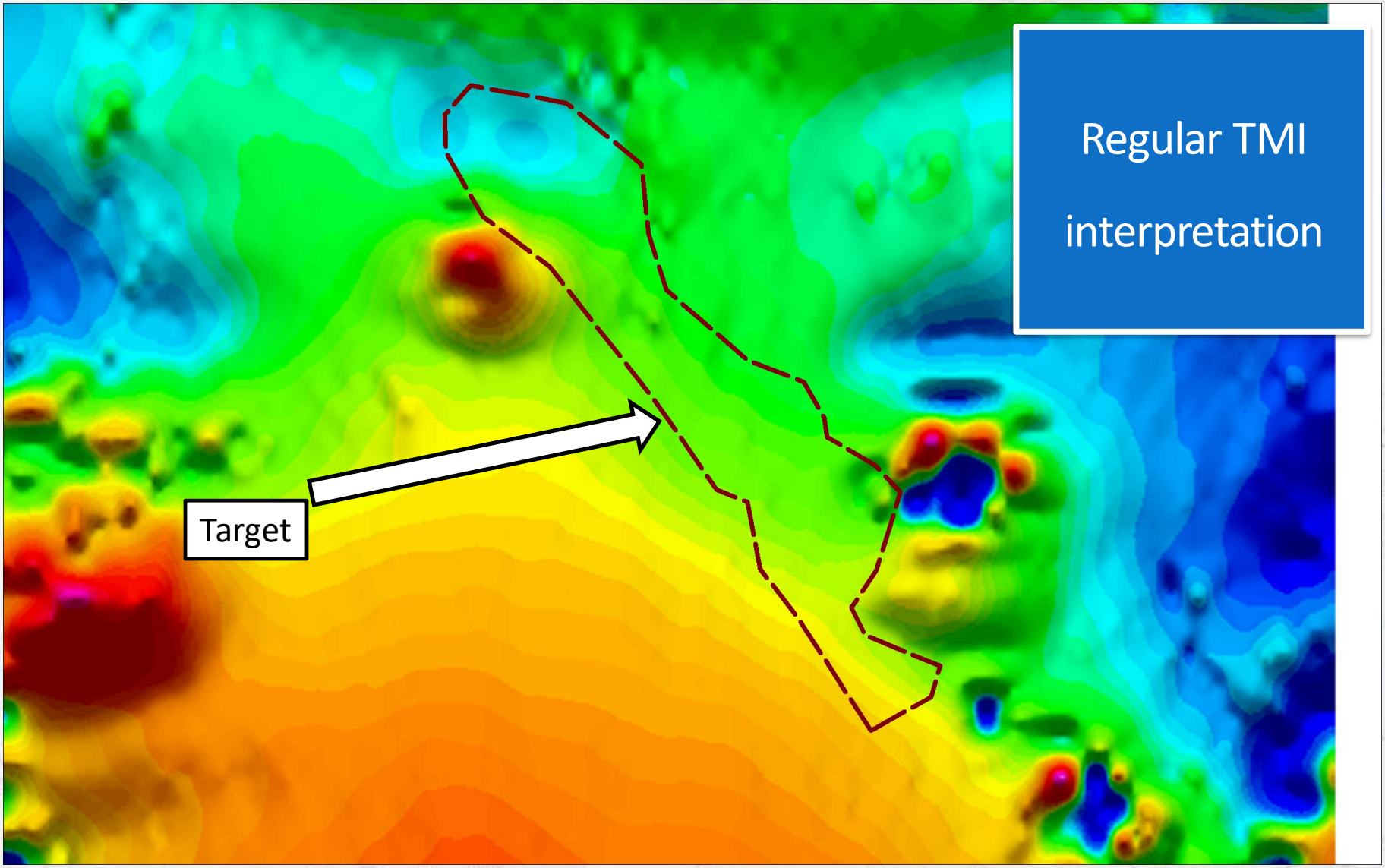
# CASE STUDY 2 – EPITHERMAL

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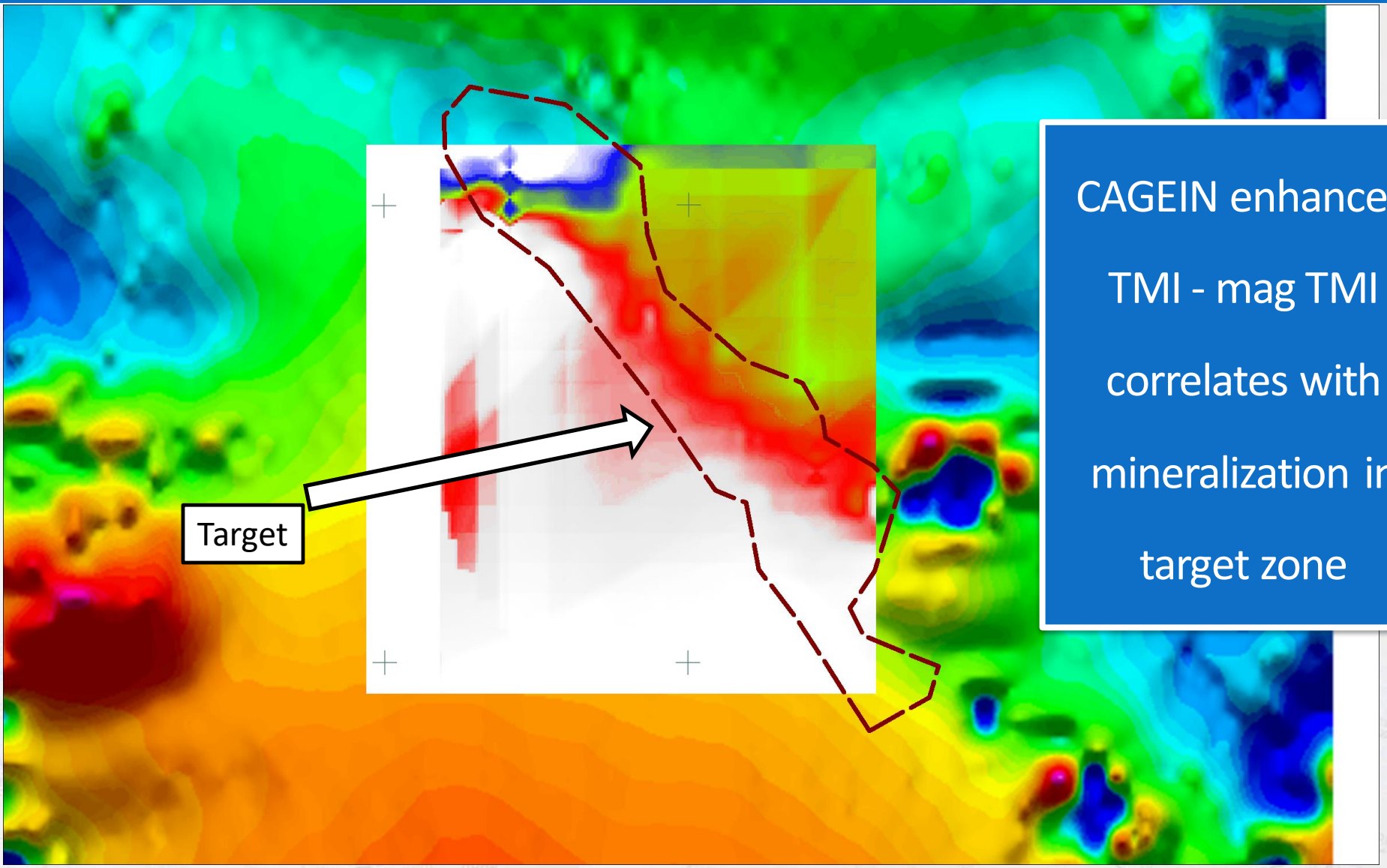


CAGEIN enhanced TMI - mag TMI correlates with mineralization in target zone

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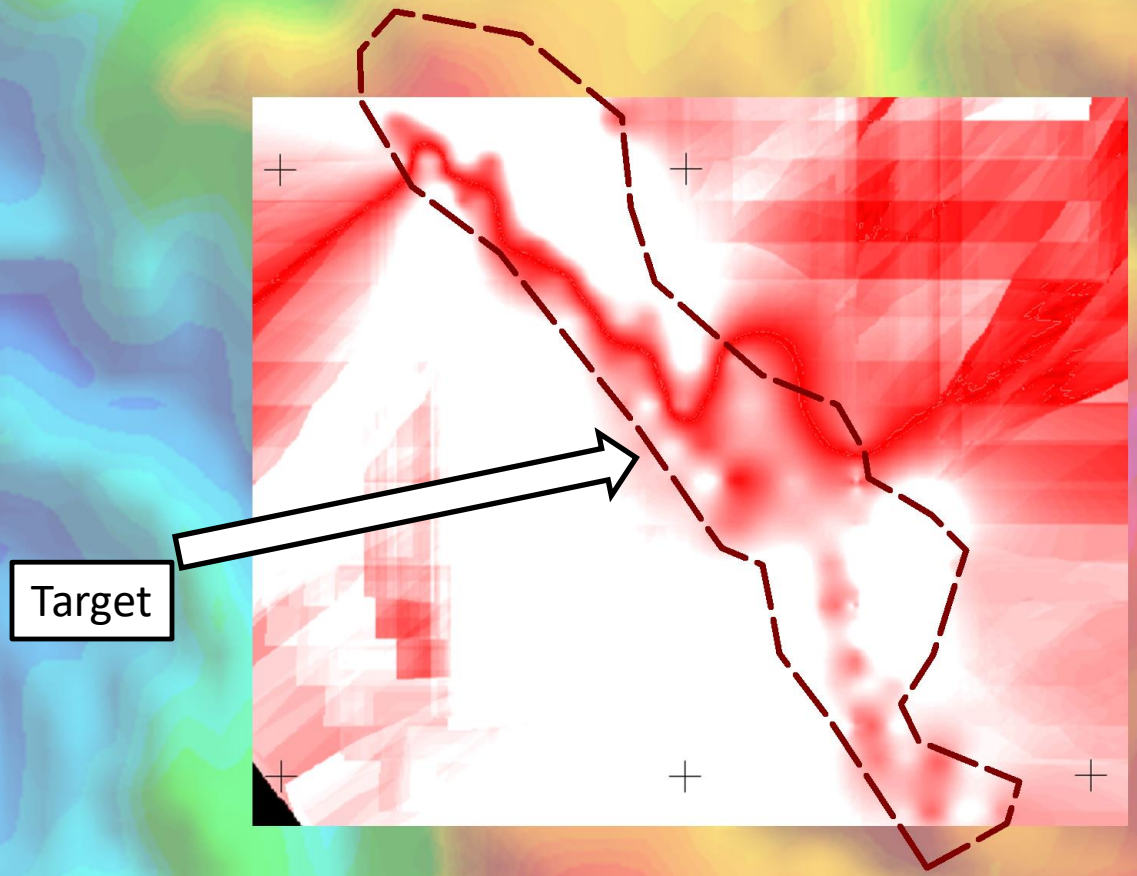
# CASE STUDY 2 – EPITHERMAL




CAGEIN Enhanced RADIOMETRIC – K excellent correlation with mineralized zone

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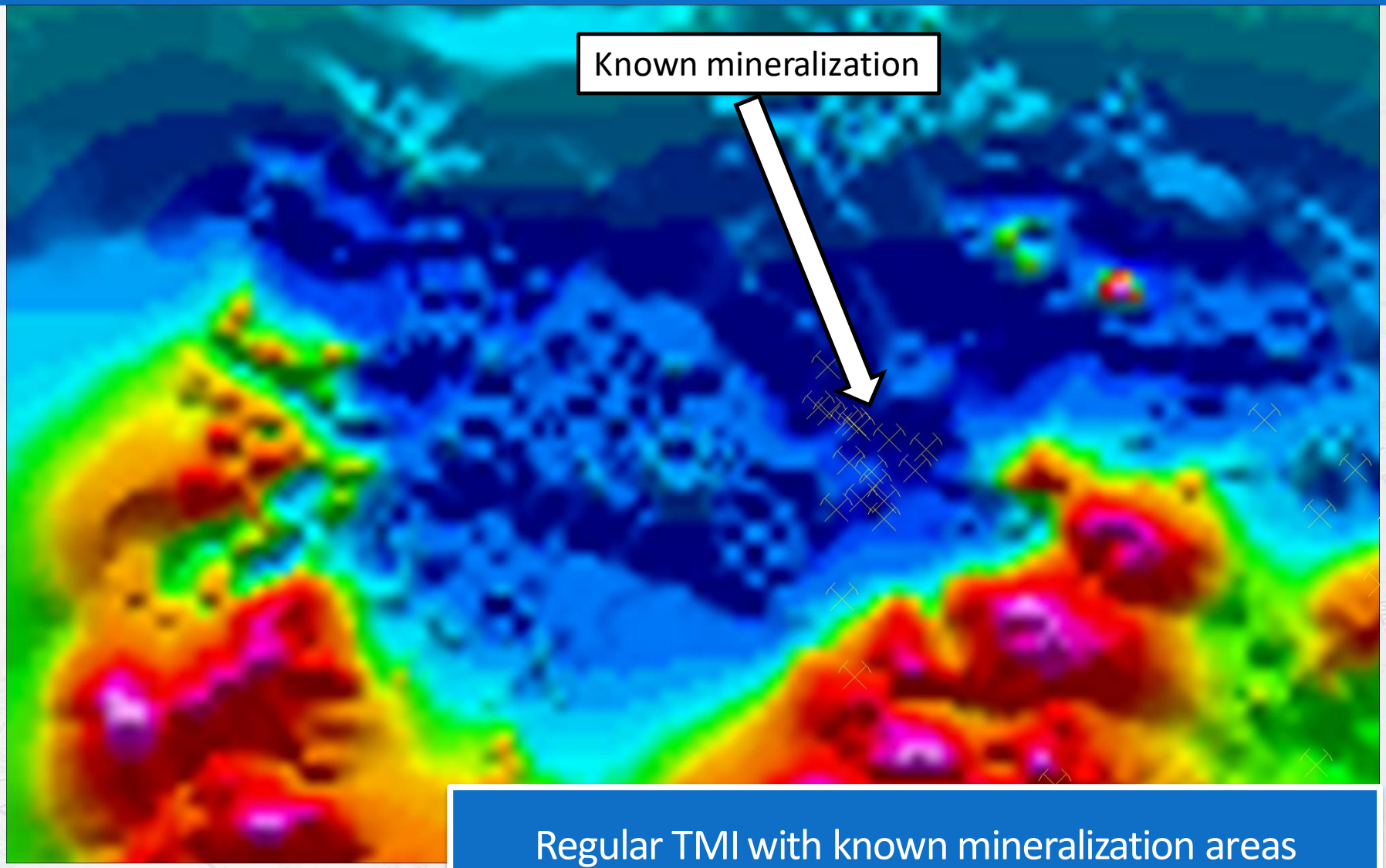
# CASE STUDY 3 – SKARN




Regular TMI with known mineralization areas

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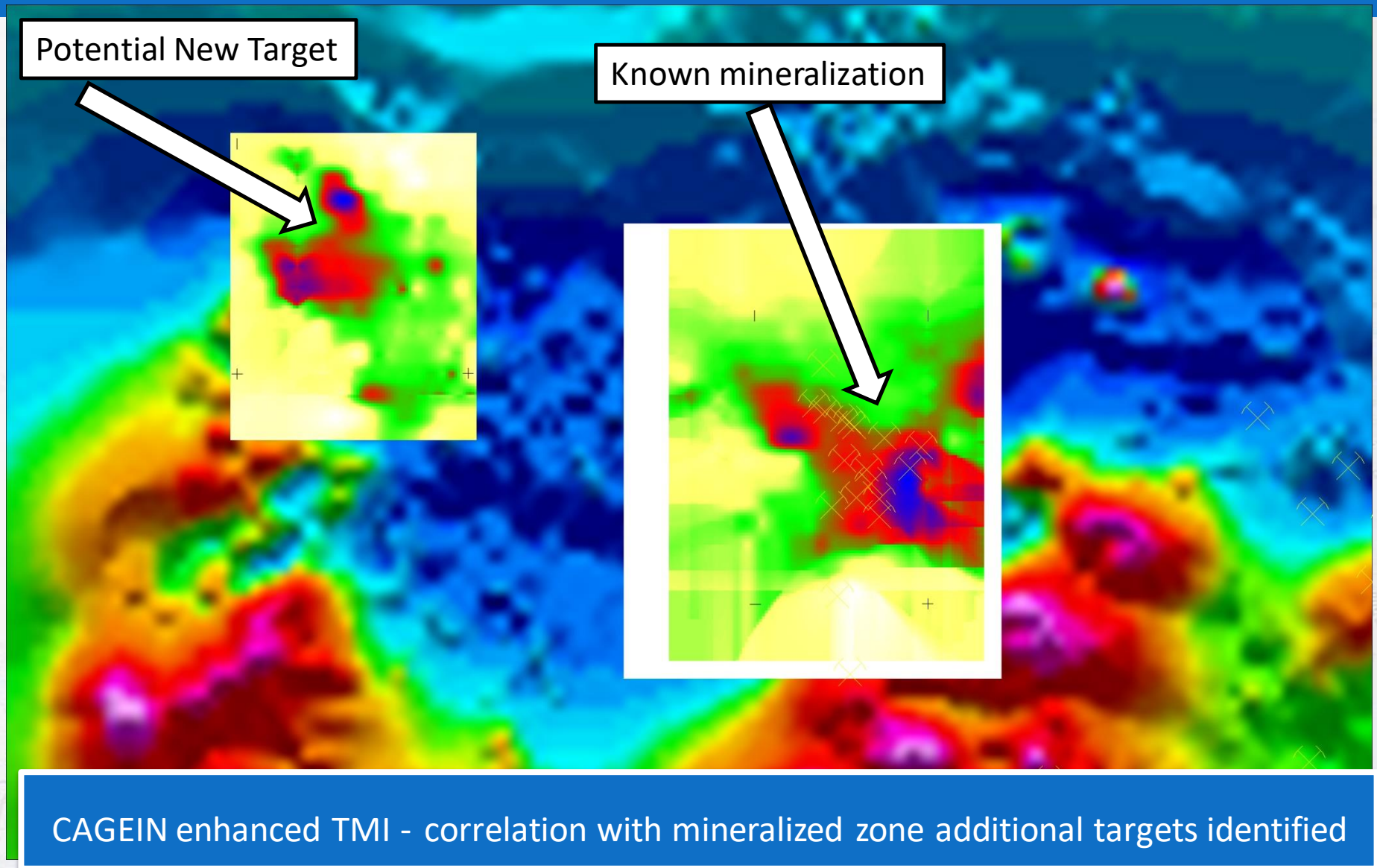
# CASE STUDY 3 – SKARN




CAGEIN enhanced TMI - correlation with mineralized zone additional targets identified

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# INPUTS AND DELIVERABLES

| Inputs needed | | Deliverables |
|---|---|---|
| • Geophysical data<br>  • Mag - X, Y, Z, TMI<br>  • Rad - X, Y, Z, U, Th, K<br>• Geological map<br>• Location of known mineralization if any | CAGE-IN | • Enhanced map with establishing correlations of mineralization and different geophysical parameters<br>• Potential targets areas |

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# CONCLUSION

- CAGE-IN technology enhances existing geophysical data
- Helps identify additional targets even in well explored areas
- Applicable is several mineral occurrences
  - Demonstrated in porphyry, epithermal, skarn types
- Can be applied on pre-existing surveys as well as in conjunction with fresh acquisition
- CAGE-IN is an integrated interpretation and would work increasingly well if geological maps, soil/rock geochem data, structural maps, location of historical/ artisanal workings become available

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