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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GE Exploration

About GeoExploration

- Incorporated in Florida in 2011 for mineral exploration consulting
- Worked in 12 countries for various commodities like Au, Cu, U, COLTAN, Fe, Al, Diamonds
- Specialist in greenfield and brownfield Precious and Base Metals exploration – reconnaissance to resource estimate
- Specialist on high technology mineral exploration related geological services
- Undertakes technology development for exploration and mining ventures
- Involved in several very successful mineral exploration ventures globally

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Global Footprint in Geological Work and QA-QC

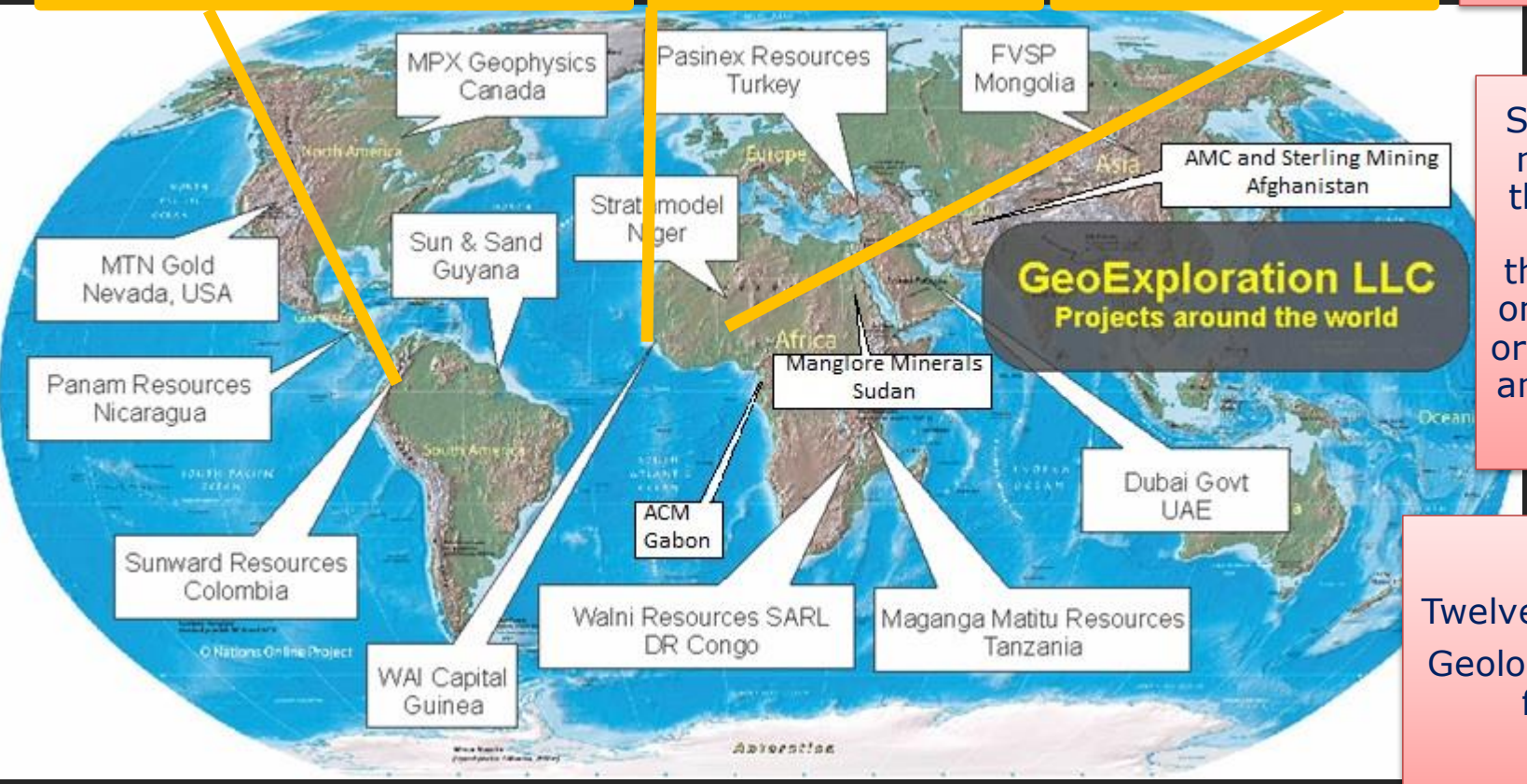
GE Exploration

14 Moz Au eq, Colombia.
Au-Cu porphyry attained market cap of over $250M in less than 2 yrs

Multi billion tonne
Iron Bauxite Laterite in Guinea

+165 Mlb
Uranium Discovery in Niger

Internationally recognized geologists' team



Success rates much higher than industry average through focus on technology, organized work and multistage QC

Twelve countries Geology, QA QC focus

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International clients, Geology focus, Developed QA-QC and data interpretation know how for geological applications

GEOExploration

- Remote sensing, prospect identification and prioritizing
- Data integration in GIS
- Geology-geophysics data integration – CAGE-IN technology
- Remote monitoring of mining activity and change monitoring using satellite data
- Environmental monitoring using remote sensing
- Software development for process automation

SunWard Resources

WAI CAPITAL INVESTMENTS CORP.

MPX GEOPHYSICS LTD.

Sun-n-Sand

MEC MONGOLIA ENERGY CORPORATION

FVSP Mongolia

Stratamodel

Pasinex

Walni Resources SARL D.R.Congo

GOVERNMENT OF DUBAI

Magana Matitu Resources Development Limited

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GeoExploration - Capabilities

GeoExploration

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*

Services for Government

- **GIS integration of multiple databases**
- Satellite data interpretation
  - **Monitoring and surveillance of mining activity**
  - Prospect identification for exploration
  - **Land use mapping**
  - Environmental change monitoring
- **Geology - Geophysics data integration CAGE-IN technologyChange monitoring on existing mines (remote monitoring)**
- Integrating TAX data with mining database
- **Support at international expositions and trade shows**

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Proprietary Spectral Classification Methodology

- Works for regional prospect identification as well as high resolution targeting
- Perfect for shallow mineralization with subtle superficial spectral signature
- Has been successful in delineating targets for Cu-Au Porphyry, hydrothermal and lateritic mineralization
- Works on the principle that mineralized bodies have identifiable spectral signatures and the geological anomalies associated with mineralization affect the surface bodies and vegetation.

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Satellite – Prospect identification

- ✓ Proprietary image classification technology uses spectral signature to identify mineral prospects over very large areas
- ✓ Using our proprietary know-how of image classification we can identify the following on remote sensing imagery:
  - ✓ Potential mineral bearing areas within large prospects
  - ✓ Locate active mining areas and artisanal mining areas
  - ✓ Change in mining activities sites over time
  - ✓ Illegal mining activities or mining outside concession areas

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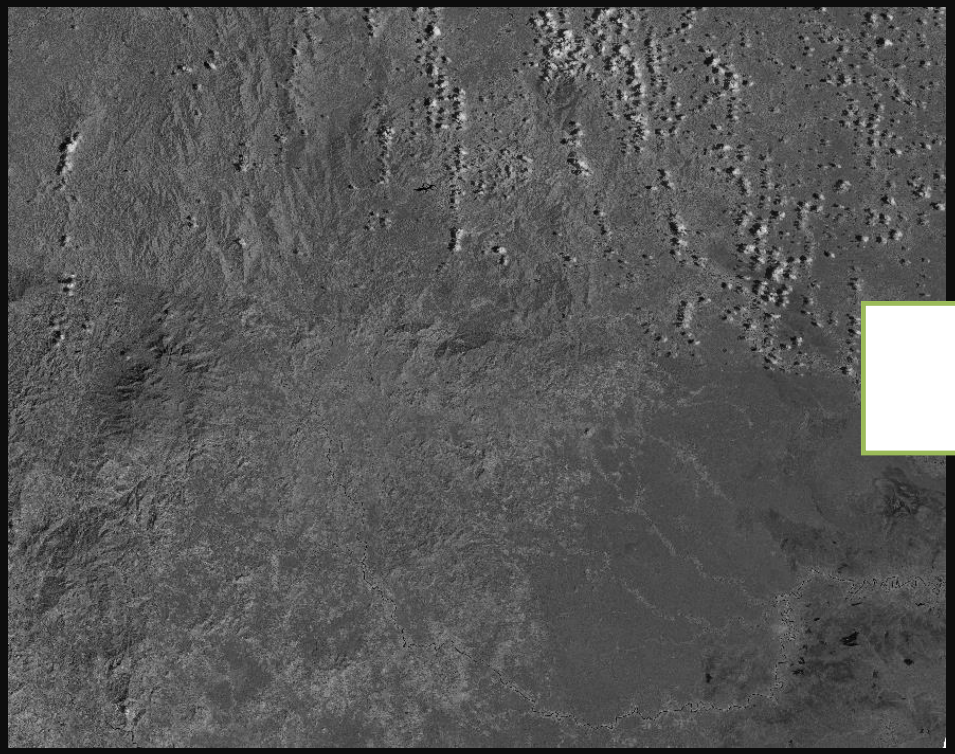
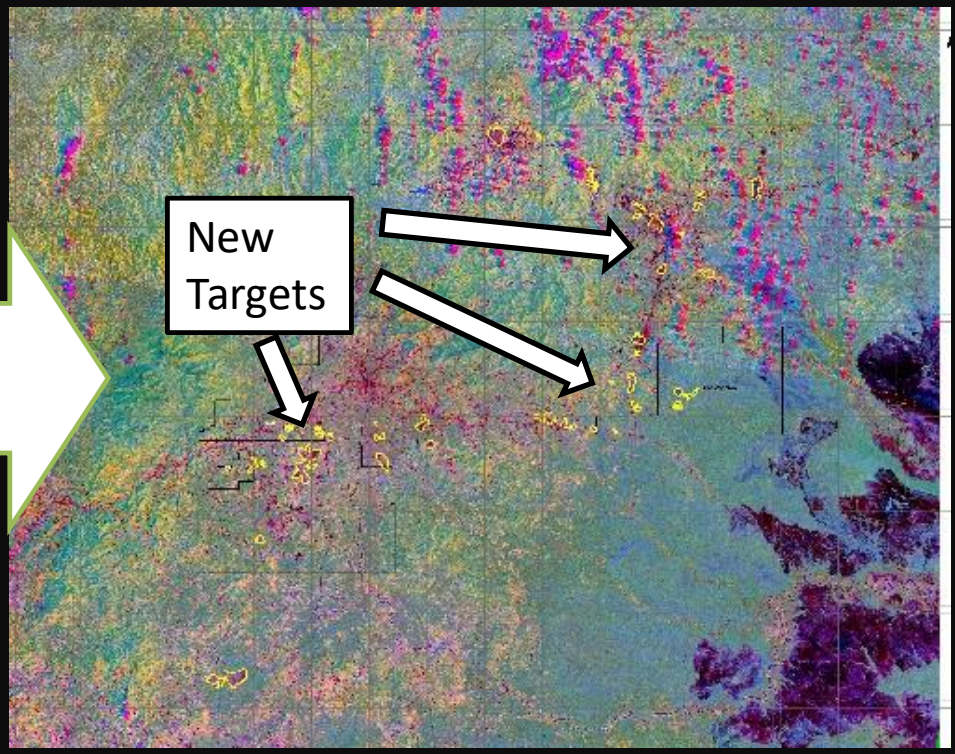
Spectral Calssification case study





Spectral classification methodology is able to identify multiple potential targets through identification and demarcation of geological domains, defining spectral signatures of mineralization in the target area, through detailed image analysis using band arithmetic, ratios, band combinations, PCA etc…

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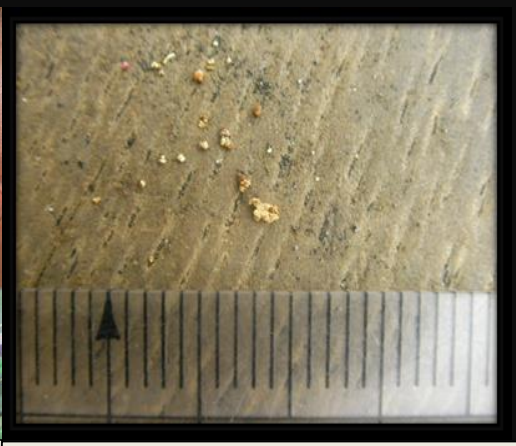
GeoExploration LLC - Expertise at a glance

Malachite boulder – DR Congo

Finding Gold - Nicaragua

Drilling for Uranium - Niger

Reconnaissance for Gold - DRC



Gold nuggets - Colombia

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Major Exploration Success Stories

GEO Exploration

SUCCESSFUL EXPLORATION – Multiple occurrences

- Au Cu Porphyry - 14 Moz Au eq – Colombia (2010-2012)
- Lateritic Iron Ore & Bauxite in Guinea, West Africa (2012-2013)
- Identification of hydrothermal gold targets in Nicaragua (2014)
- Identification of potential mineralization for alluvial gold in North Ontario (2017 – ongoing)

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