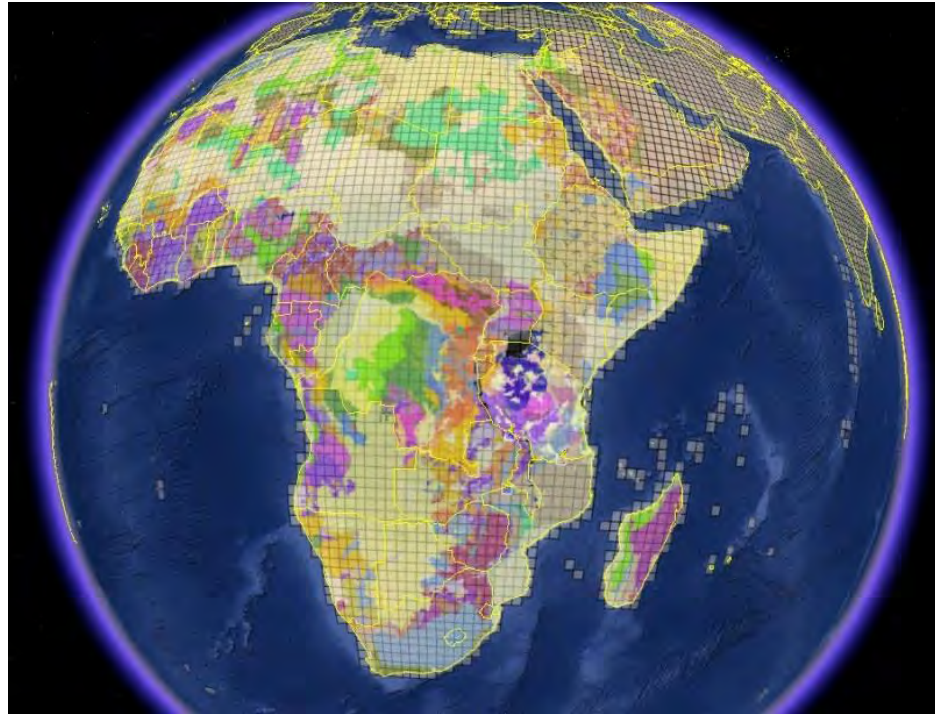




The AMGI project: A Brief Overview



World Bank Group (Energy & Extractives Global Practice) GEEDR

Francisco Igualada (figualada@worldbank.org)

Presented by Ash Johnson, Geosoft Inc.

The AMGI Project: Vision and Mission

Under the political umbrella of the AFRICAN UNION, the AMGI Project (*African Minerals Geoscience Initiative*) has been endorsed by African Governments as a “pillar” of the AFRICAN MINING VISION (AMV).

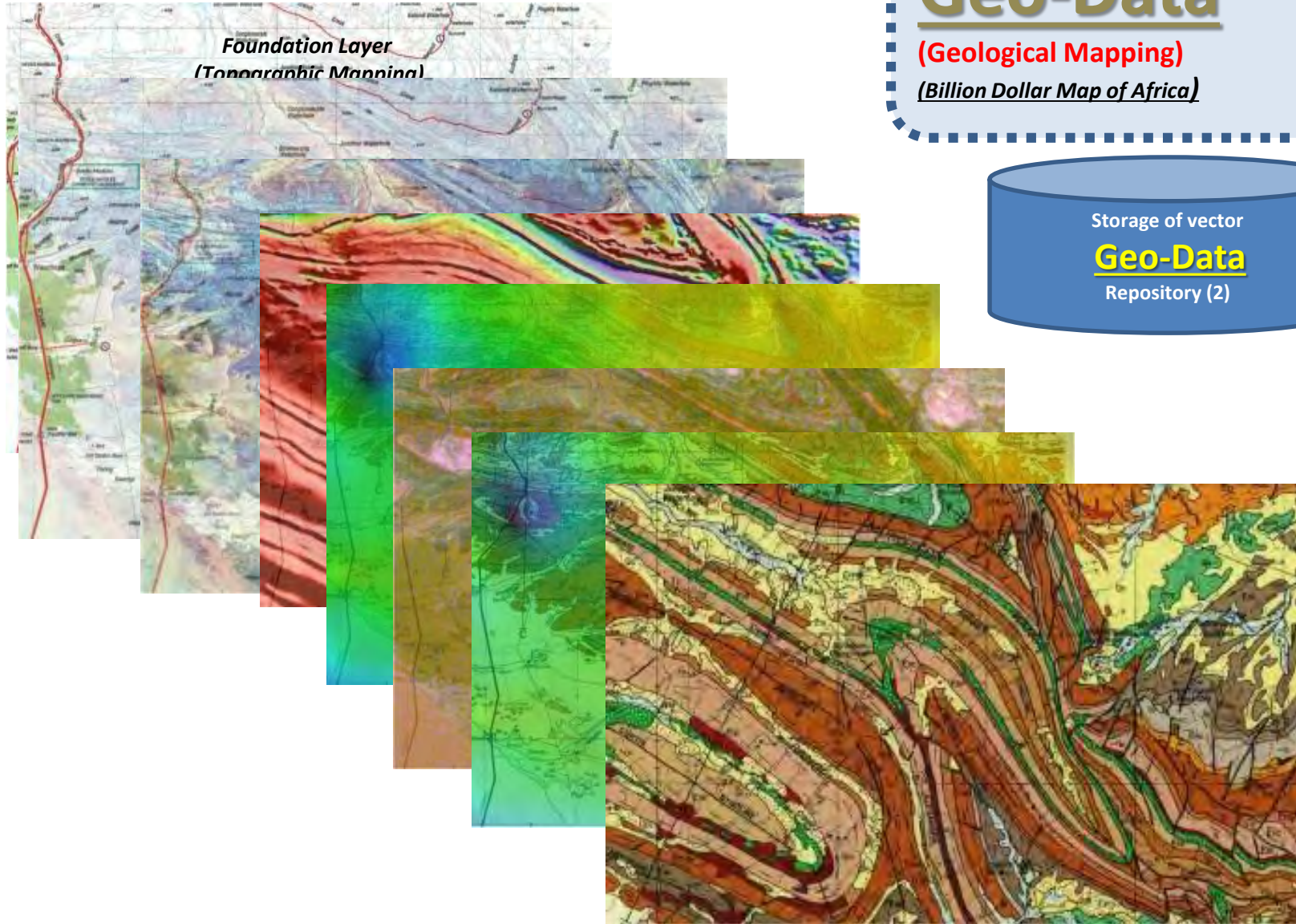
Mission of the *AMGI* is to:

- *Provide public geo-data to a global audience and to accelerate and cost reduce the exploration process*
- *De-risk investments to improve value assessment*
- *Improve competitiveness and transparency in the mining sector*
- *Improve benefits to States (by avoiding asymmetrical disadvantage)*
- *Maximize economic development impacts through enhanced mining sector conditions*
- *Use geodata as a multi-sector asset to derive other related mapping products used for development*

Vision statement:

“AMGI aims to be a single, secure, complete on-line store of digital geodata with access controlled by entitlement”.

The AMGI Deliverables





How will this be done?

- Recovering, replicating, re-conditioning and carrying out a re-interpretation workflow of existing relevant geoscience information or geodata
- Ensuring data integrity and geodatabase homogeneity at a working level (*common foundation imagery layer*)
- Facilitating a safe repository for “new and existing” geodata for enabling a future integration with geophysical, geochemical and regolith information.
- Enabling geodata exchange services (Fast Delivery), interoperability and trading, where appropriate



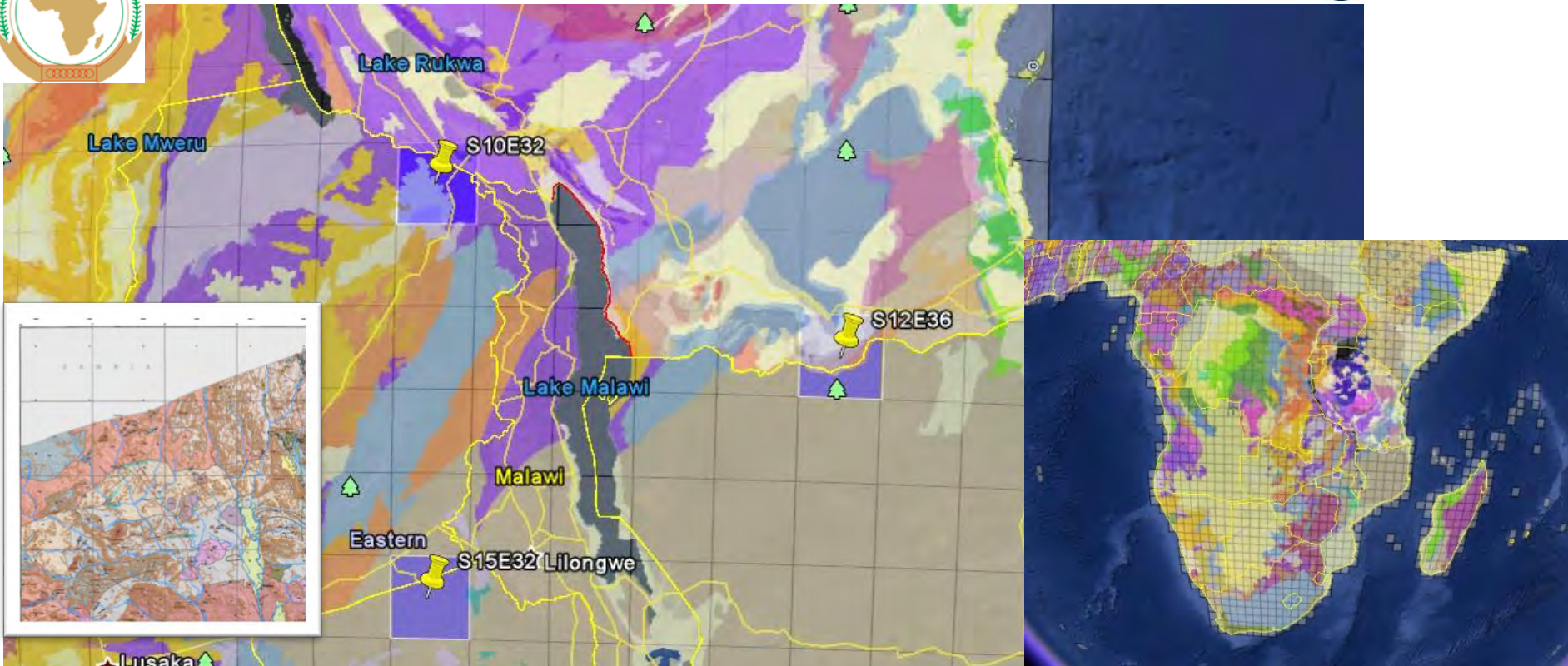
How will this be done?

- Delivering geodata cost-effectively to owners and end-users ensuring ownership, accessibility and security.
- Making public geodata improvements through the “integration” & (addition) of geospatial-type of standard exploration reports
- Promoting data dissemination for investment attraction, exploration valuation and other value-added services
- Developing new datasets (Value-added) according to agreed priorities based on exploration, valuation or any other need (such as detailed prospectivity targeting and geophysical re-interpretation)

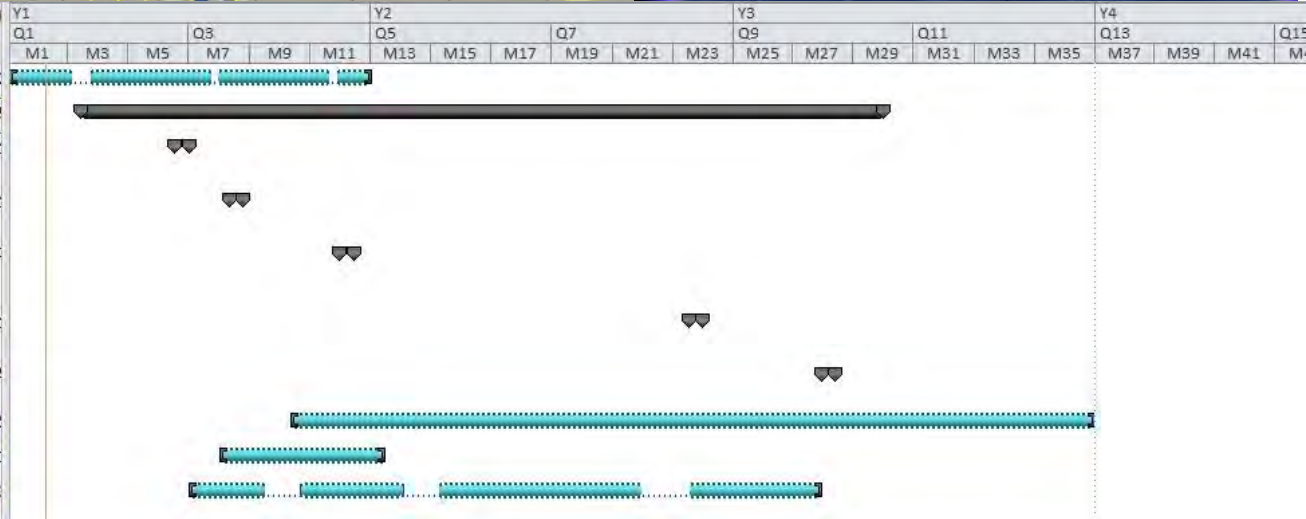
Project components

- **Track-1 Fast Delivery (FD)**- Fast Delivery of geodata services by compiling, geo-referencing and compiling existing geodata and make it available through the web. Likely 1:250k to 1:100k
- **Pilot Projects** (three test areas in southern Africa of *one degree by one degree*)
- **Track-2 Value Added (VA)**- Value-Added services and products through re-interpretation at 1:50k to 1:100k scales suitable for basic exploration purposes
- **Capacity building:**

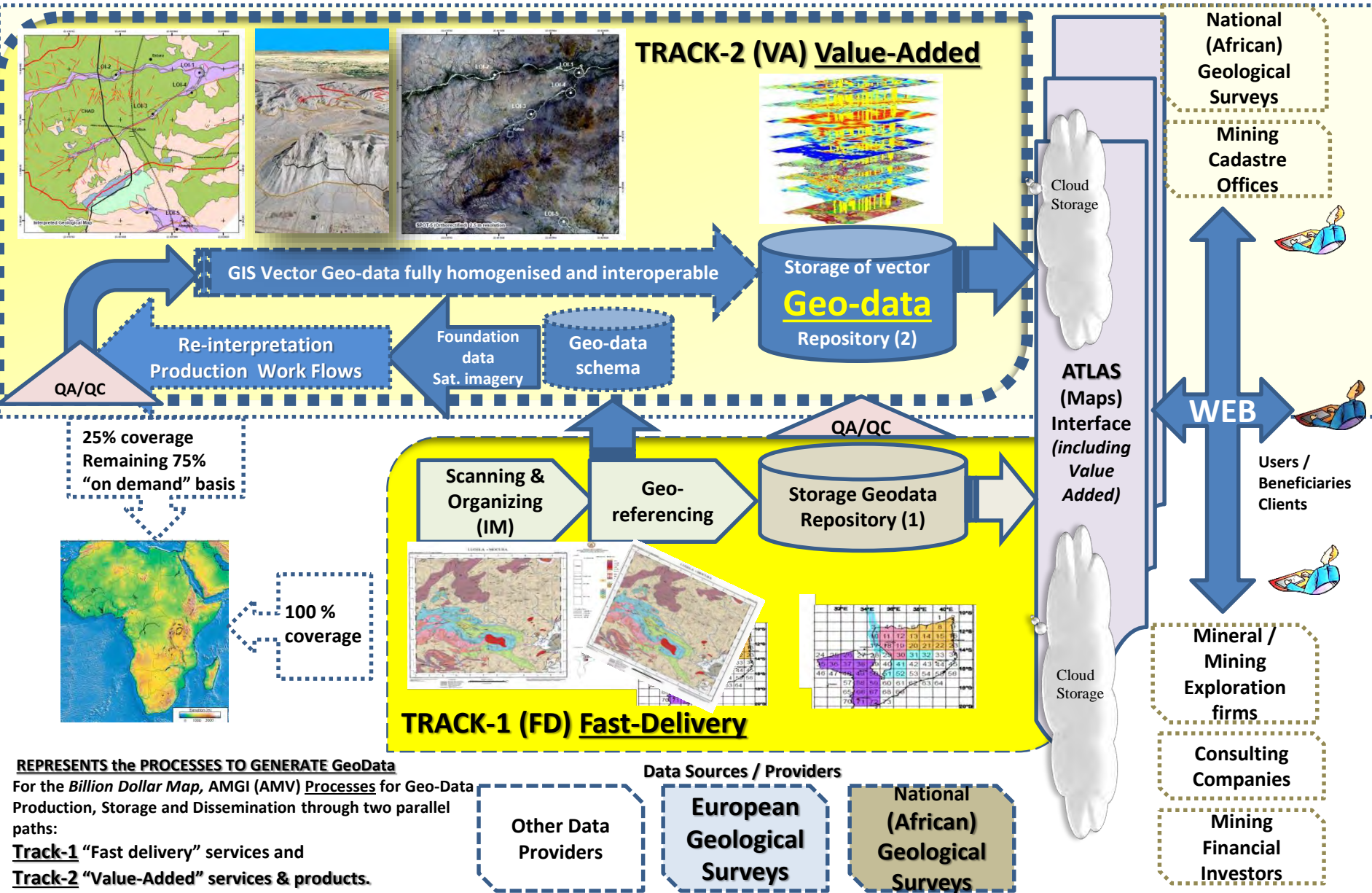
The AMGI “Billion Dollar Map”, is an initiative that aims to build capacity within African national institutions to collect, collate and reinterpret all the geodata that has already been produced, assess the gaps and define priorities for the generation of new data.
- **Partnerships:** Key for the success of AMGI and includes NGS, Mining houses, service providers, training institutions and technology drivers among many others.



Tas Mo	Task Name
1	COMPONENT-1: Structure
2	COMPONENT-2: Pilot Process
3	+ Detailed scoping missions in countries where the three Cells for Track-2
6	+ Establishing a basic/test geodata structure for processing, analyzing, hosting and disseminating geo-science information
9	+ Creating a Track-2 (Value-Added) products or "new geological products/maps" out of existing "old" geological datasets by re-interpreting
15	+ Outlining potential pilot areas & selecting all geoscience datasets of interest
18	+ Highlight technical geodata limitations in implementation of pilots & developing a quantification of resources
20	COMPONENT-3: Develop Track-1
21	COMPONENT-4: Cap. Build & AMGI Plans
22	COMPONENT-5: GP Facility & Multi-Secto



Overview of Track-1 (FD) and Track-2 Value-Added (VA)

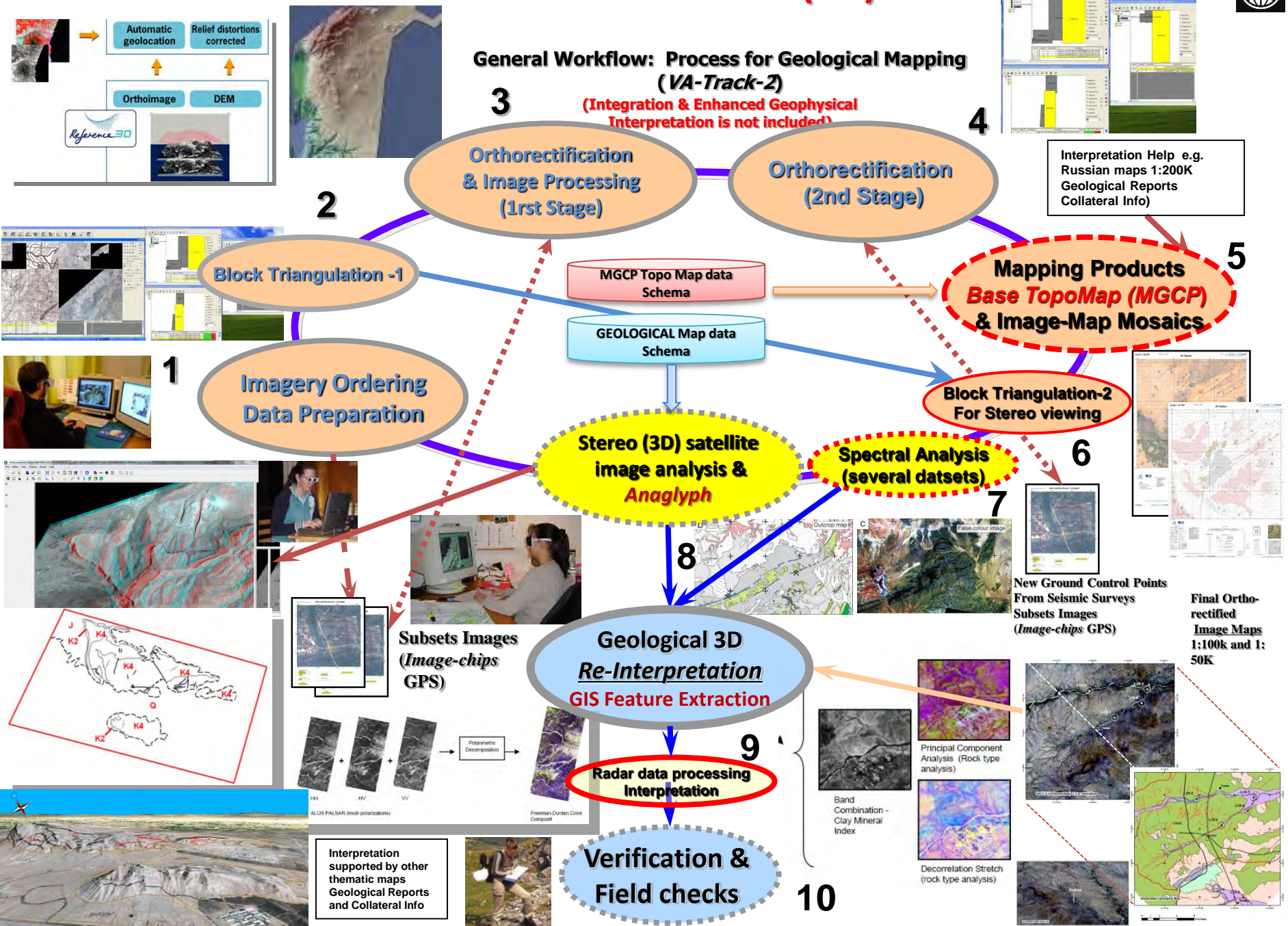


Track-2 Value-Added (VA) cont'



General Workflow: Process for Geological Mapping (VA-Track-2)

(Integration & Enhanced Geophysical Interpretation is not included)





Summary

1. The mineral sector is driven by exploration and this activity needs Geodata as “the critical asset”.
2. Joint efforts in detailed scale mapping (e.g. AMGI) and GeoData are fundamental for attracting mineral investors bringing economic development to countries.
3. Need for further work for GIS-based prospectivity analysis and initial-stage asset valuation. In using GeoData (a.-*Unbiased sample* & b.- *uniform area coverage*)
4. Interoperability and GeoData quality/reliability is a critical component.



Summary

5. **GeoData has an “intrinsic value” linked to the knowledge derived and NOT the actual cost of data.**
6. **Standardization is key for communicating and, bringing TRUST to the “mining picture” which is often seen as an unreliable and rapidly changing sector with little transparency.**
7. **Geodata derived from geoscience information must be considered as multi-sector in terms of uses and by-products.**
8. **GeoData is part of a continuous workflow involving public and private sector sources through multi-sector uses (key justification for investing).**