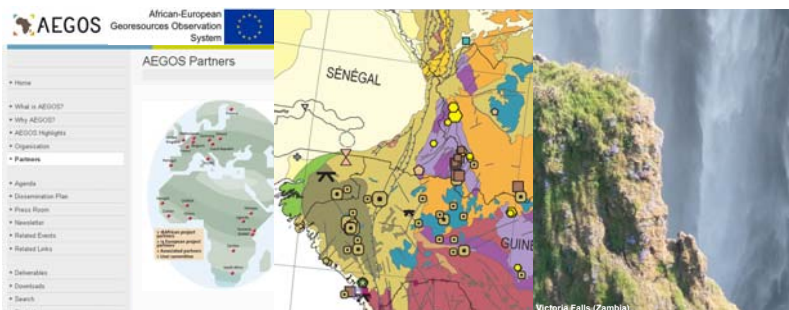




# AEGOS

## AFRICAN-EUROPEAN GEORESOURCES OBSERVATION SYSTEM

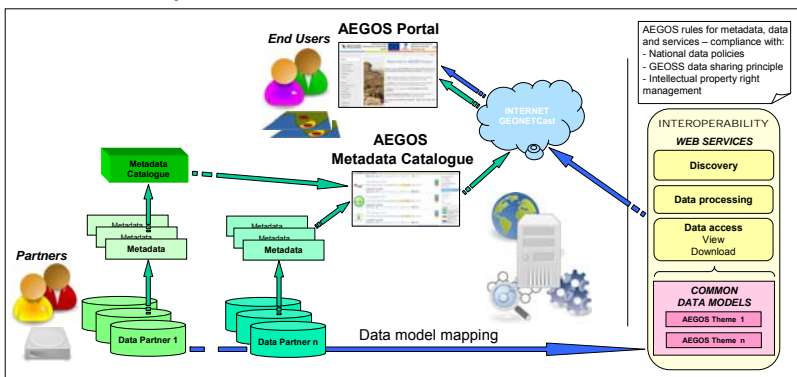
- > Strengthen the sustainable use of underground resources in Africa by designing the Spatial Data Infrastructure for Georesources based on interoperable geoscience data and user-oriented services.
- > Elaborate common strategies for capacity building and training programmes.
- > Support geoscientific communities and institutional decision-makers to set up both research and public policies on sustainable development.



> **AEGOS Mid-Term Conference and annual project meetings:**  
May 18 - 25th, 2010 – Dar es Salaam, Tanzania

### ONGOING ACTIVITIES

- Analyse the existing **Spatial Data Infrastructure reference models, metadata and data specifications**: recommendation for ISO 19115 & 19119 for AEGOS metadata profile, INSPIRE methodology for data specification and ISO reference model for Open Distributed Processing as SDI conceptual model.
- Analyse the **technical infrastructure and functionalities** of existing systems as well as staff and development plans.
- Identify the **data themes** through analysis of user-oriented products and services: current status and future user requirements.
- Formalise the **generic approach for the development of innovative projects** based on AEGOS.
- Identify the test-case area and relevant data sources and services for **interoperability and interdisciplinarity in support of GEOSS**: JRC soil and biodiversity databases, Tanzania Natural Resources Information Centre, World Soil Survey and Catalogue, West African Exploration Initiative.
- Analyse the existing **curricula and training institutes**; identify the gaps and necessary professional skills to define the relevant qualifications and outline the capacity building programmes.
- Draft the **AEGOS charter of partnership** and the possible schemes for the **sustainable operation of the AEGOS SDI** as the African Georesources Portal.



### CONTRIBUTION OF AFRICAN AND EUROPEAN GEOSCIENCE COMMUNITIES TO INTERNATIONAL PROGRAMMES

- > **GEO** (Group on Earth Observations) – Work Plan 2009-2011: AEGOS is Sub-Task no. **CB-09-05d** of the **Capacity Building programme** “Infrastructure Development and Technology Transfer for Information Access”
- > **INSPIRE** (Infrastructure for Spatial Information in Europe) and **ISO** standards for metadata and data models
- > **GEONETCast** - broadcasting of geoscience data in Africa through a satellite network: **showcase at GEO Ministerial, 2010**
- > **GMES in Africa** (Global Monitoring for Environment and Security) – Identify AEGOS as an infrastructure in the Action Plan and contribute to “Long-term management of natural resources” and “Water resources management” thematic areas

### PROJECT OUTCOMES

- > **Preparatory phase** for building the pan-African SDI dedicated to Africa’s geology and related resources: raw materials, minerals, groundwater and geothermal energy.
- > **Distributed architecture** of national multidisciplinary data sets presently disseminated and managed by African and European geological surveys and geosciences related organisations.
- > **Internet and satellite-based access** to public geoscientific metadata and harmonised data.
- > **User-oriented products and services**: customized decision-support systems combining georesource information with socio-economic and sustainable development indicators.
- > **Operational procedures and open standards** to browse interoperable spatial information: ISO/CEN, OGC (WMS, WFS), IUGS/CGI (GeoSciML).
- > **Capacity building and training programmes.**
- > **Charter of Partnership**: commitment of the partners to the implementation and operation of the future Georesource Observation System.
- > **Permanent network** of institutions and geoscientists to facilitate transboundary and regional management plans.

- Project duration: December 2008 to May 2011
- 23 partners over 20 African and European countries
- Support Action of the European Union 7th Framework Programme for Research and Technological Development
- Participation is open to all interested parties as associate partners or user committee members

**AEGOS Partners**  
Belgium (RBINS), Czech Republic (CzechGS), Ethiopia (GSE), Finland (GTK), France (BRGM, IRD), Germany (BGR, Beak), Ghana (GSD), Guinea (DNG), Netherlands (TNO), Poland (PGI), Portugal (INETI), Senegal (MMI), South Africa (CGS), Tanzania (IRA), Uganda (GSM), United Kingdom (BGS), Zambia (GD-SOM-UNZA), International organisations (CIFEG, EU/JRC, SEAMIC, UEMOA)



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