

AEGOSAfrican-European Georesources Observation System

Système d'observation Afrique-Europe des géoressources

Design a pan-African infrastructure of interoperable data and user-oriented services to strengthen the sustainable use of georesources in Africa. Safeguard, share, valorise the knowledge and data archived in African and European geological surveys. Support geoscientific communities and institutional decision-makers for sustainable development public policies.

PROJECT BACKGROUND

Collectively, European geological surveys have a unique archive of public Africa-related georesources data that needs to be shared with their African partners.

A huge amount of geoscientific data and information has been and is presently acquired by African R&D institutes, in collaboration with European counterparts.

Existing data and information assets exist in **multiple formats**, **several languages**, and are frequently difficult to identify and access.

EUROPE-AFRICA PARTNERSHIP

Cotonou Partnership Agreement (2000): the ACP-EU cooperation shall "provide technical and financial assistance for the acquisition, conservation, processing and dissemination of geoscientific data".

SIGAfrique network (2003-2005): 13 ACP countries, 2 ACP regional organisations and BRGM developped a digital low resolution harmonised pan-African geological and mineral resources GIS - www.sigafrique.net

Maputo declaration (2006): the African Earth sciences community is "convinced that geoscience's knowledge can help Africa learning from past mistakes in the environmental management of our Earth system in order to improve the quality of life of their populations".

A priority for sustainable development and rules for intellectual property rights management



Contribution of African and European geosciences' community to 3 international initiatives:

GMES – Global Monitoring for Environment and Security

GEOSS – Global Earth Observation System of Systems

INSPIRE – Infrastructure for Spatial Information in Europe

PROJECT HIGHLIGHTS

- > Preparatory phase for the building of a pan-African information system on Africa's geology and related resources: raw material, minerals, groundwater, energy, etc.
- > Distributed architecture of national multidisciplinary data sets presently disseminated and managed by African and European geological surveys
- > 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

Associated Partners

> Permanent network of institutions and geoscientists to facilitate cross-border and continental overviews



- Support action of the European Union 7th Research and Technology Framework Programme
- Project opened to the participation of all interested parties as associate partners or user committee members
- Design of georesources predictivity maps combining geological, environmental, societal and economic data and indicators
- Establishment of a partnership charter to define the commitments of the respective partners in the implementation of the actual Georesources Observation System
- Support of sustainable development policies for decisionmakers and geoscientific communities

AEGOS WORKPACKAGES

- 1- Spatial data infrastructure reference model, metadata and data specifications
- 2- Architecture specifications
- 3- Identification of data themes, user-oriented products and services
- 4- Preparation of innovative projects based on AEGOS
- 5- Interoperability and interdisciplinarity in support of GEOSS
- 6- Definition of common strategies for capacity building and training
- 7- AEGOS as a geoscientific contribution to GEOSS, in the context of the INSPIRE Directive

Contact - Project coordination
Marc Urvois – m.urvois@brgm.fr
www.brgm.fr/brgm/aegos

