Feasibility Study:

GEOSCIENTIFIC KNOWLEDGE AND SKILLS OF AFRICAN GEOLOGICAL SURVEYS

WP 3 - Gap analysis of geoscientific mapping

Acquisition of metadata to geological maps as base for the compilation of an index map and map catalogue of available maps

Kristine Asch & Markus Toloczyki (BGR)
WP3: Partner organisations

BGR – Bundesanstalt für Geowissenschaften und Rohstoffe

BGS – British Geological Survey

BRGM - Bureau de Recherches Géologiques et Minières

CzGS – Ceska geologicka sluzba

IGME – Greece - Institute of Geology & Mineral Exploration

PGI-NRI – Polish Geological Institute - National Research Institute

SGUDS - State Geological Institute of Dionýz Štúr (Slowakia)

GIRAF - Network Geoscience Information in Africa
WP3: Objectives

• Compilation of a map catalogue / index maps of available maps on:
  – Geology
  – Mineral occurrences, e.g. raw materials, energetic minerals
  – Groundwater occurrences and quality
  – Geochemistry
  – Geophysics
  – Remote Sensing data

• Identification of areas where detailed geological mapping is required
WP 3: Methods

- Collection of all necessary **geospatial metadata of published and unpublished digital and analogue maps** for geology, mineral resources, groundwater, geophysics, geochemistry and imageries on international, national, regional and local scales;

- Identification of areas where **more detailed field mapping is needed** (= “white areas”);

- Identification of **actual and potential users needs**;

- **Recommendations** to better the situation.
Activity 3: GAP analysis of geoscientific mapping

- **Task 3.1**, Create and disseminate a questionnaire no 1.2 to assess the present situation of all African Geological Surveys and similar institutions in Africa for activities in geoscientific fieldwork and map production.

- **Task 3.2**: Evaluate gathered information to show the present situation with African Geological Surveys;

- **Task 3.3**: Write a concept note with recommendations for strengthening mapping activities and the provision of geoscientific information and geodata by Geological Surveys in Africa.

- **Task 3.4**: Present the assessment results and recommendations at the Project Workshop for comments, feedback discussion and refine with the OAGS members.

- **Task 3.5**: Present the assessment results and recommendations at the Project Workshop for comments, feedback discussion and refine with the OAGS members.
WP3: Deliverables - Internal reports

- **IR3.1**: Overview on existing available geoscience maps and geodata in Africa as well as a description of the present situation on mapping activities in African countries by national geological surveys. **15.10.2013**

- **IR3.2**: Concept Note on strategies to strengthen the capacities of African geological surveys in the field of geological mapping and the provision of geodata (maps and web services). **20.01.2014**

- **IR3.3**: Dissemination result. **15.11.2014**
„As-Is Analysis“

• Overview of existing available maps and geodata and

• Description of the present situation on mapping activities with African Geological Surveys.
Database for metadata

Data Entry Form
Graphic User Interface
Database for metadata

Table metadata
Generation of index maps:
e.g. Geological Maps (Ghana)

- All themes, var. scales
- Geology, 1:62 500
- Geology, 1:100 000
- Geology, 1:125 000
WP3: Concept Note

• Strategies and recommendations to strengthen the capacities of African Geological Surveys in the field of geological mapping and the provision of geodata (maps and web services)
Interaction with other WPs

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Thank you