Results of Activity 6
Capacity Building and Training Concept

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G. Delmonaco (ISPRA)
M. Urvois (BRGM)
B. Kříbek (CGS)
T. Ngwisanyi (OAGS-Botswana)
Relevance of the Topic

**Rationale**

*Capacity building/Training initiatives on Earth Sciences in Africa*

- **AMDI** – African Mining Vision Initiative
  - Capacity Building (specific action)
- **UNESCO** – Earth Science Education Initiative in Africa (ESEIA)
  - Institutional Networking (ANESI) for promoting participation of African earth scientists to IGCP
  - Promoting the emergence of Geoheritage/Geoparks in Africa
- **Other initiatives:**
  - AEGOS, AusAID, IM4DC, WAXI, AMSI, GIRAF

EuroGeoSurveys - The Geological Surveys of Europe
Relevance of the Topic

training in PanAfGeo

Specific objectives of PanAfGeo

- Need to enhance capacity of African national geological surveys vs. their specific mission and institutional roles
- Strengthen training capacity involving also the national education and training systems
  - Mining-related activities (i.e. mining exploration, mineral exploitation, small-scale mining, mining-induced hazards)
  - GeoHazards, GeoHeritage, IT infrastructures and GeoScientific Mapping
As a general rule, almost all scientific fields dealing with the main objectives of the project are present in the capacity of the considered OAGS.

- Lack of funds and skilled expertise
- Lack of adequate and modern equipment
- Proper and constant training of personnel
- Staff mobility from public to private system

- Most of topics have been deemed as relevant in terms of actual capacity by OAGS
- Mining is not a priority for some AGS
Needs, expectations, recommendations

MAIN DEMANDS AND RECOMMENDATIONS

Training and Capacity Building to be addressed considering the fulfillment of institutional mission/responsibilities.

Attention requested from OAGS to:

- Transfer of standard practices
- Quality of trainers
- Applicability of knowledge
- Quality of materials (e.g. manuals, guidelines)
- Fulfilment of expectations
- On-the-job training delivery mode
- Case studies on pilot areas in Africa
Needs, expectations, recommendations

- Delivery mode for different training programmes to be designed according to potential target groups (i.e. technicians, professionals, stakeholders, administrators) as well as the different level of capacity/skill of the involved people
- Short-courses (field or laboratory) on specialised topics are recommended for technical staff whereas workshops, mainly on land planning and management subjects, can be addressed to decision makers or stakeholders.
Training courses distinguished in Short Courses (SC), Basic and Practical (BP) and Specialist (ST):

- SC.1 “From stepping on a stone to opening a mine”
- BP.1 “Remote Sensing Techniques and Mapping”
- BP.2 “Geology of Mineral Resources”
- BP.3 “Artisanal and Small-Scale Mining”
- BP.4 “Geochemistry and Environmental Geology”
- BP.5 “Geoinformation and Data Management”
- BP.6 “Geohazards”
- BP.7 “Geoheritage”
- ST.1 “Advanced Remote Sensing Techniques and Map Production”
- ST.2 “Laboratory Analysis”
- ST.3 “Advanced Geology of Mineral Resources”
Training Courses

Training courses as a part of the fieldwork within Activities 3, 4 and 5

Training courses organized in Zambia and Namibia as part of development and cooperation projects
Training Course in Methods of Geochemical Exploration and their Environmental Applications (Czech Republic)

Duration of the course: 10-14 days
Number of participants: 15-20 per course
Lecturers from Czech Republic and invited lectures from PGI, GTK, NGR
On-the-job training in installation of monitoring systems for rock deformation analysis of the Siq of Petra (Jordan) - UNESCO
Training Courses

On-the-job training in geoscientific database management (geology, mineral resources, hydrogeology, bibliography): SIGAfrique network, BRGM
Workshops or special sessions organized in the framework of international conferences together with OAGS, GSAf, UNESCO, IUGS, IGCP
SUSTAINABILITY OF CAPACITY BUILDING PROGRAMMES

- Involvement of African institutions/networks
- Joint cooperation between EGS and OAGS trainers in preparing training programmes and materials coherently with GSOs needs and requirements
- Availability and involvement of the required local training facilities and faculties to contribute to capacity building programme
- Establishment of positive relationships and shared visions among participating institutions and stakeholders
THANK YOU FOR YOUR ATTENTION!