



Earth science education programme for all of Africa.





Earth science education initiative in Africa.





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Organizational partners

Geological Society of Africa

International Center for Training and Exchanges in the Geosciences (CIFEG)

African Association of Women Geoscientists
Royal Museum of Central Africa

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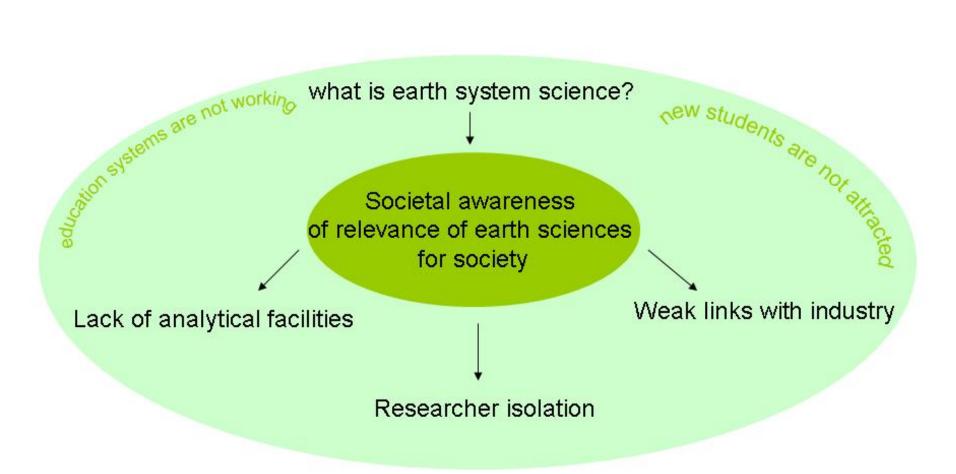






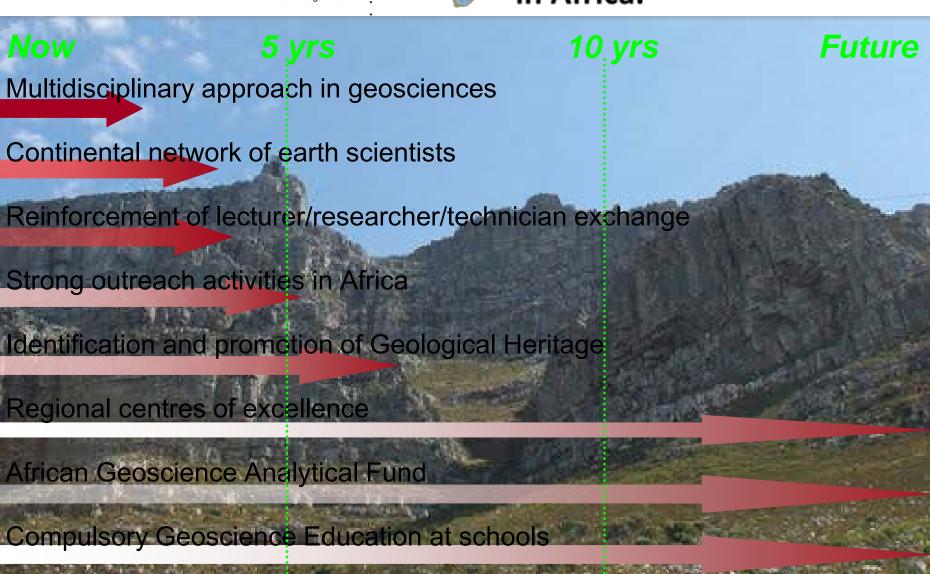


Regional differences exist, but there are continental similarities:









GEOPARKS











First International Conference on African & Arabian Geoparks المؤتمر الدولي الأول للمنتزهات الجيولوجية الإفريقية و العربية

El Jadida, Morocco, 21-28 November 2011



Aspiring Geoparks in Africa and Arab World

http://www.africangeoparksnetwork.org

Main sponsor









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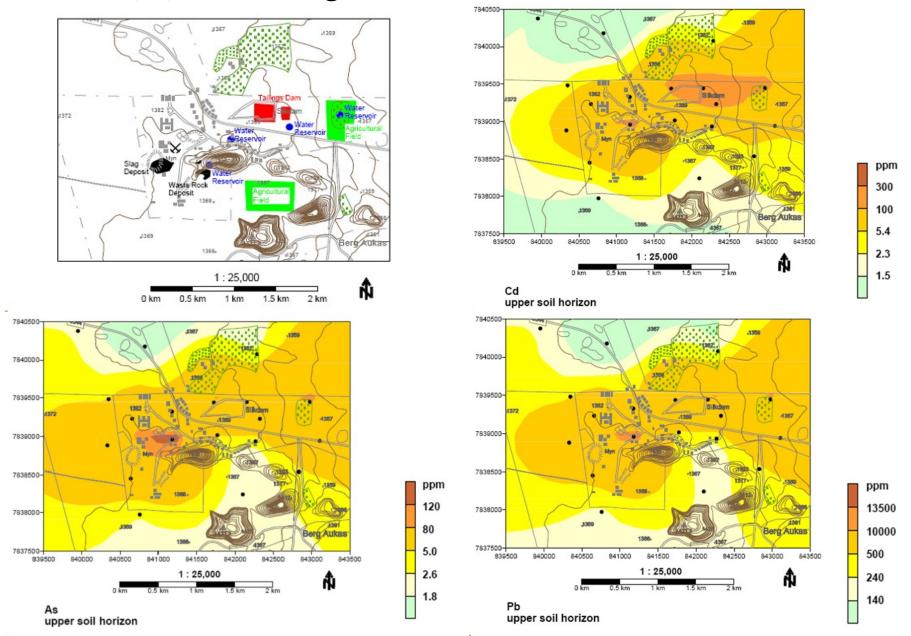
INTERNATIONAL GEOSCIENCE PROGRAMME: Environmental and Health impacts of mining in Africa

Children, girls and women are important targets of our education activities





A successful case of policy advise Pb, V, and Zn Berg Aukas abandoned mine in Namibia

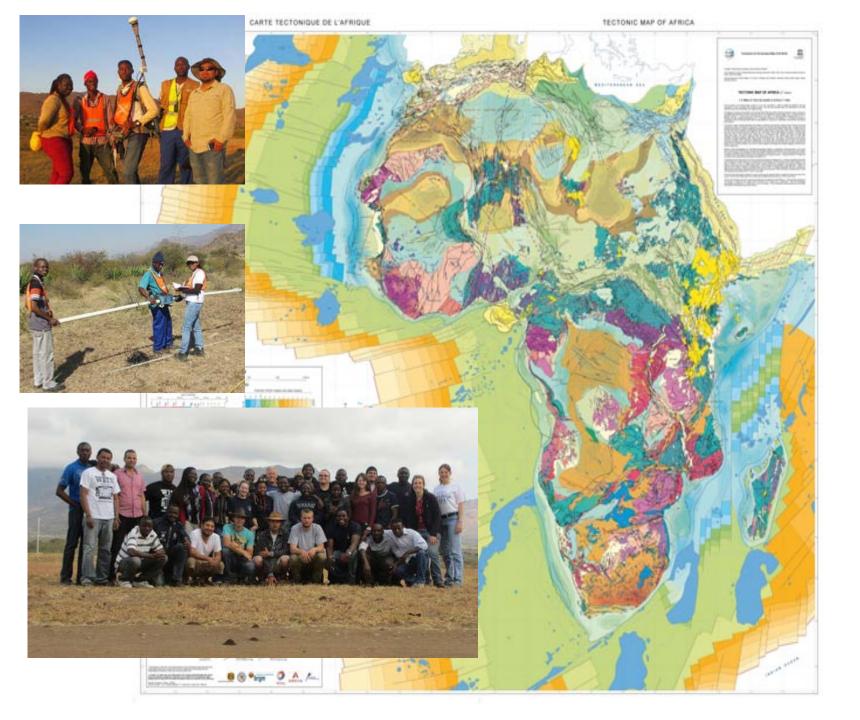






The way forward: few priority actions to start

- 1. Strengthening Earth Science Infrastructures through Geological Field Mapping Training;
- 2. Strengthening/ Introducing earth science courses in primary and secondary education;
- 3. Strengthening Earth Science Education through Institutional Networking







Geological Field Mapping Training in Africa: Political foundation

"...much of Africa's mineral resources remain under-explored and under-exploited and geoscience knowledge is at a relatively too low level to attract exploration and investment"

(First African Union Conference of Ministers Responsible for Mineral Resources in October 2008)

"Africa is the world's top producer of numerous mineral commodities and has the world's greatest resources of many more, but most of Africa still lacks systematic geological mapping which could bring to light a much greater resource base" (Africa Mining Vision prepared by the African Union in 2009)





Geological Field Mapping Training in Africa The project

- 1. Plan is to set up mobile geological field mapping school
- 2. Trainees would be young professionals from geological surveys, private sectors or early career lecturers from universities:
- 3. The initial set up costs and support in kind would be sought from global donors;
- 4. We hope the school will become progressively self-funded and evolve towards an African Centre of Excellence for Geological Mapping training;







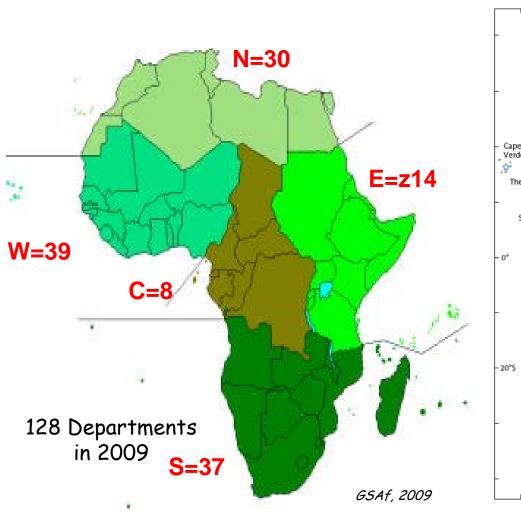


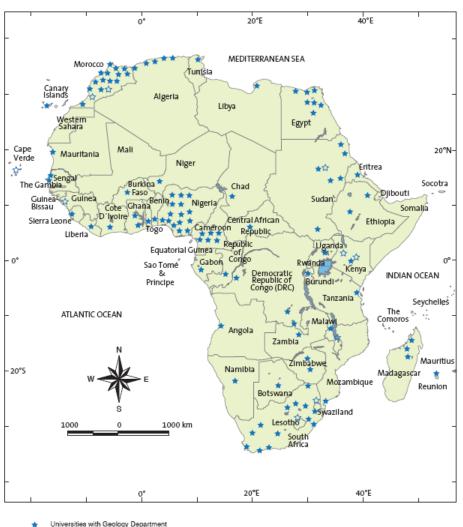
African Network of Earth Science Institutions (ANESI)

Why a network?

In 2009, Africa had 128 departments of earth sciences, although unevenly distributed throughout the continent

We are currently updating the mapping survey of institutions for their inclusion in an online database











Organisation des Nations Unies pour l'éducation, la science et la culture

African Network of Earth Science Institutions (ANESI) Selected objectives

- Promote excellence in earth science education and research;
- Promote earth system science education;
- Promotion collaboration in training, research and capacity building;
- Maintain database of African earth science institutions and experts;
- Promote of gender equality access to earth science education;
- Improve participation in international research projects, particularly IGCP;
- Improve of connections between universities/research institutions and industry;

African Network of Earth Science Institutions (ANESI)



Institutions

African Network of Earth Science



United Nations Educational, Scientific and Cultural Organization

HOME

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Our Vision

ANESI concourses to the vision of the Earth Sciences Education Initiative in Africa to trigger the emergence of the new ... Read More ...

Our Mission

ANESI works towards increasing the impact of Earth Sciences on the sustainable dovatonment of Africa through

African Network of Earth Science Institutions

HOT NEWS

November/December 2011

GIRAF Geoscience Information in Africa, 2nd Workshop, GIRAF

Circular for the Colloquim " 23rd Colloquim of African Geology" (CAG23), Johannesburg, South Africa, More

MEMBERSHIP

 ANESI Members are recruited from earth. African science department universities, earth sciences research institutions, African geological surveys and from earth science related industries





Earth Science in Primary and Secondary Education

- 1. It is a well-established fact that in primary and secondary schools geology has not the same status as geography, biology, or physics;
- 2. In many African countries, earth sciences appear for the first time at the end of secondary school, if not only at university;
- 3. Awareness on earth-related environmental challenges starts at an early age through education;









"if all women had secondary education, there could be 1.8 million fewer under-5 deaths"

(UNESCO Global Monitoring Report on EFA, 2011)

- 1. "Earth Sciences Education for All" (especially children) can prevent Africa from past mistakes of environmental management in the future.
- 2. Introducing earth sciences at primary and secondary education is an opprtunity to forge future generation of "Earth stewards".







Earth Science courses in Primary and Secondary School

The project

- 1. Changing and adapting curricula is a long and complex process;
- 2. Convincing governments to adapt natural sciences curricula to give earth sciences a status that reflects their importance in the everyday life;
- 3. starting with a test country, and
- 4. convincing others to join;





