

Earth Science Cooperation with Sida

- Abandoned Mines Project
- African Network of Earth Science Institutions (ANESI)



Abandoned Mines Project

- Field works
- Workshop in Tanzania on formalization of ASM
- Workshop in Côte d'Ivoire Minamata convention
- Assessment of the project

Highlights on the Abandoned Mines Project

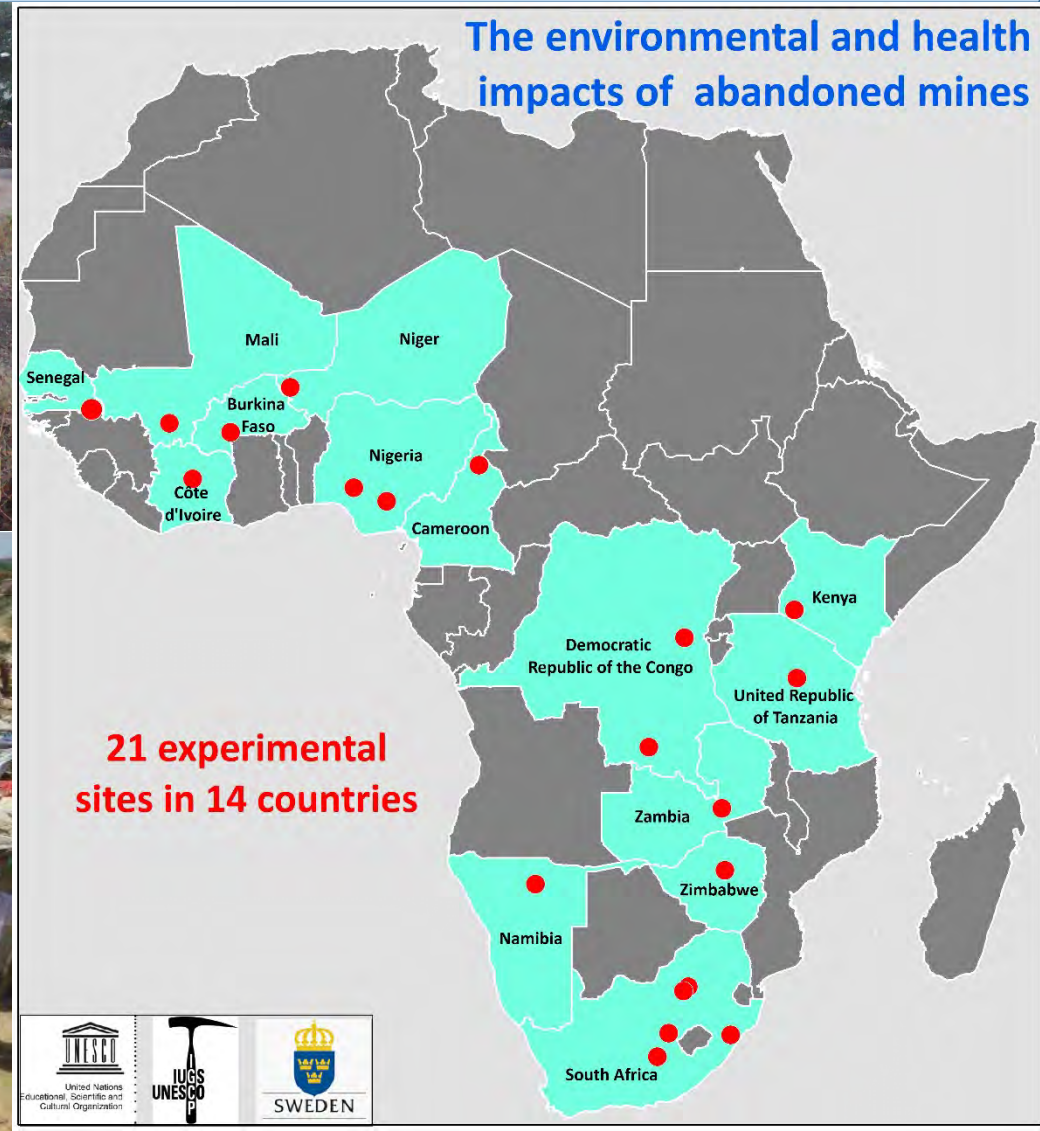




Figure 1: Points sampled in the Kabwe area in June–July 2013

Conclusion

Over 90 years of mining and mineral processing has impacted and continued to impact on the environment. The elevated levels of heavy metals in the ecosystem are an urgent matter that is recommended to be addressed by all stakeholders through enforcement of existing legislation and rehabilitation programmes together with continued awareness of these effects in schools and communities around mining areas.

Overall, despite the Government clean-up of the Kabwe area, concentration values for metals (lead, zinc, copper, iron and manganese) are either at the same levels or increasing. This is due to the continued processing of metal ores by the new operations who still use the same facilities for disposal, and therefore it is important that Government should step up the monitoring of these mining activities in the area.

References

- ¹ Makumba, J. (2013). The impact of Lead Mining in Kabwe, Zambia and measures taken to address the problem. Paper presented at the workshop on Environmental and Health Impacts of Mining Activities in the Sub-Saharan African Countries. Garden Court O.T. International Airport Hotel, Johannesburg, 02-03, May, 2013 (p.33).
- ² Kfirbek, B., Nyambe, I. A., Njumu, F., Chitwa, G. and Ziwa, G. (2010). Assessment of impacts of mining and mineral processing on the environment and human health in selected regions of the Central and Copperbelt Provinces of Zambia (p. 127).
- ³ Nyambe I.A., Chitwa M and Chazaya B. (2013): Impacts of past mining activities on

- ◆ Increased educational, sensitization and awareness campaigns in schools and communities around abandoned mines;
- ◆ Introduction of photo-remediation and rehabilitation programmes; and
- ◆ Enforcement of existing legislation.



Professor Imasiku Nyambe sensitizing school pupils on the effects of mining impacts of a closed mine such as Kabwe

Outreach, educational and awareness material on the environmental and health impacts of closed / abandoned mines in Central, Copperbelt and North Western Provinces of Zambia

FOR FURTHER DETAILS PLEASE CONTACT:

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DRGS - UNESCO- SIDA Outreach Project

HOW WOULD YOU
KNOW THAT THE
ENVIRONMENT IS
POLLUTED?



A Form questionnaire resulting in the Kabwe area; the district map shows

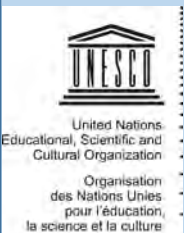
45 participants
From 19 countries

Focus

How UNESCO
through its
research and
training mandate
can contribute to a
successful
formalization of
ASM sector in
Africa

Workshop in Tanzania of Formalization of Artisanal and Small- Scale Mining, 2 to 5 September 2015, Arusha (Tanzania)

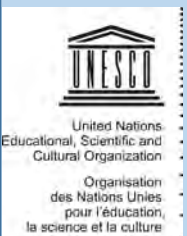
A new more sustainable research and
training model anchored in the national
education system



Workshop the Minamata Convention on Mercury May 2016 in Côte d'Ivoire

Focus

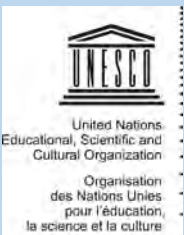
What specific
research and
training to
strengthen the
capacity of
African
countries to
implement the
Convention



Meeting of the IGCP Subcommittee to oversee the Abandoned Mines Project 24 to 26 February 2016

**Assessment of 21
new proposals for**

**Evaluation of 22
ongoing projects**



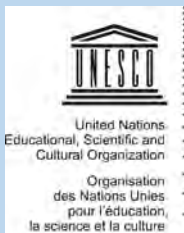
Highlights on the African Network of Earth Science Institutions (ANESI)

1. Management Team
2. Constitution
3. Next step

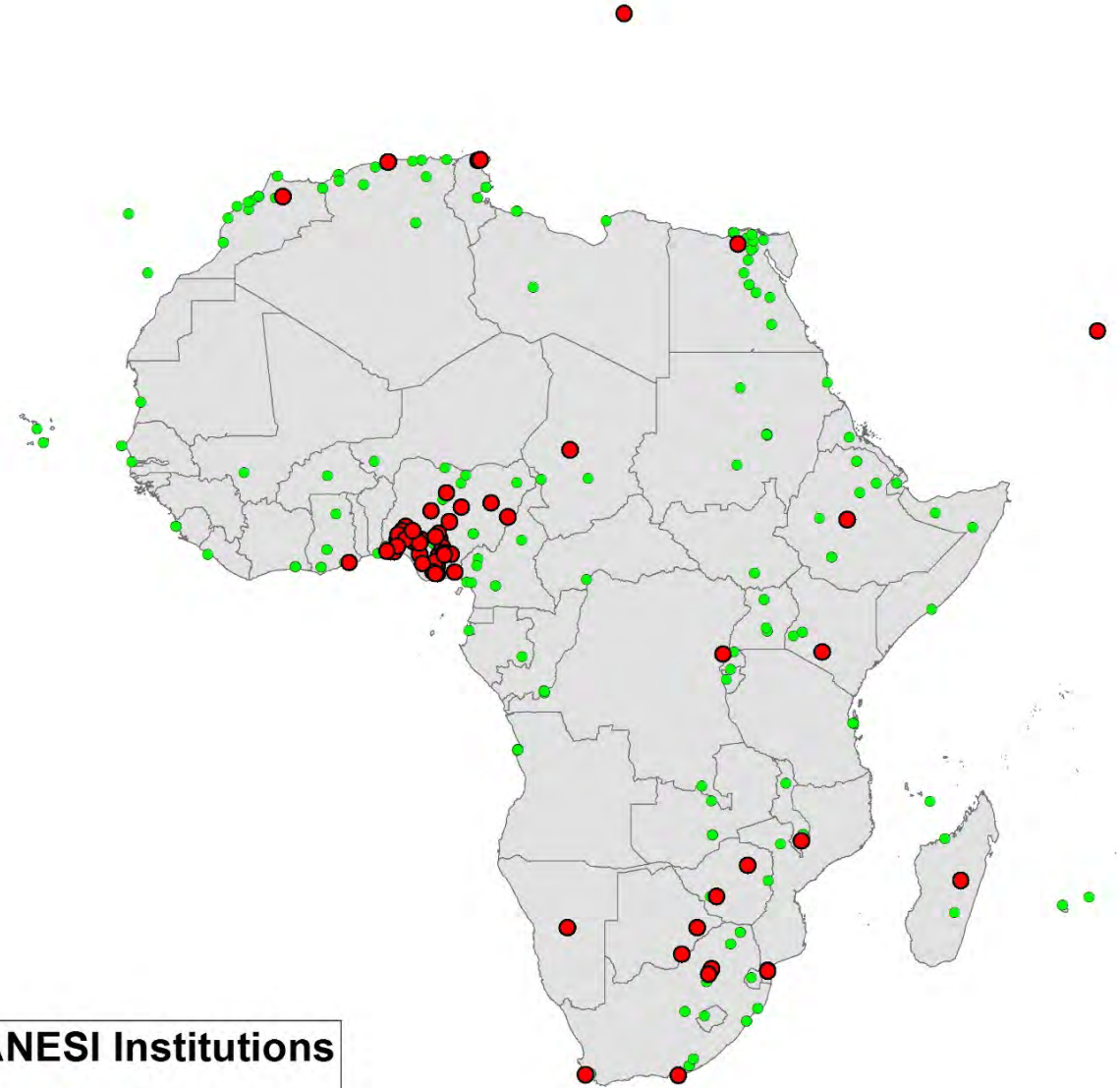


ANESI Membership

- More than 331 institutions mapped in the database
- About 80 present at the Launch meeting in January 2013 in Addis Ababa
- About 69 have now registered as ANESI Member Institutions



Africa Network of Earth Science Institutions (ANESI)



ANESI Institutions

- Registered
- Unregistered

ANESI Mobility Grants

- Students
- Researchers/Lecturers
- Women in Geosciences
- Partnership with industry
- Short courses for field geology and geophysics
- Special capacity building grant



Earth Scientists Mobility Programme

Facilitate exchange and collaboration in research and education among African Earth Science Institutions

A total of 50 scientists exchanged across Africa

The bottom of the slide features three logos: UNESCO on the left, ANESI in the center, and SWEDEN on the right. The ANESI logo is smaller than the one on the left slide. The SWEDEN logo is also smaller and includes the word 'SWEDEN' below the shield.

Few avenues for sustainability

- Making ANESI a training capacity building tool for Africa Mining Vision
- Finding synergies with other ongoing Earth sciences capacity building initiatives in Africa
- Prospecting for new funding opportunities



Thank You!

