



International Expertise in Redevelopment of Mine Sites – Case Studies

German and International Expertise

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Theses

The mining industry is the basis of all economic activities.

The mining industry creates employment and social development.

But: The mining industry causes environmental impacts.

German mining experience:

- * 800 years of ore mining
- * 150 years of coal mining
- * 100 years of potash and salt mining
- * 50 years of uranium mining.

► Long term experience in controlling the environmental impacts of mining, expertise in rehabilitation and redevelopment of mining sites in urban areas.



Situation 1992



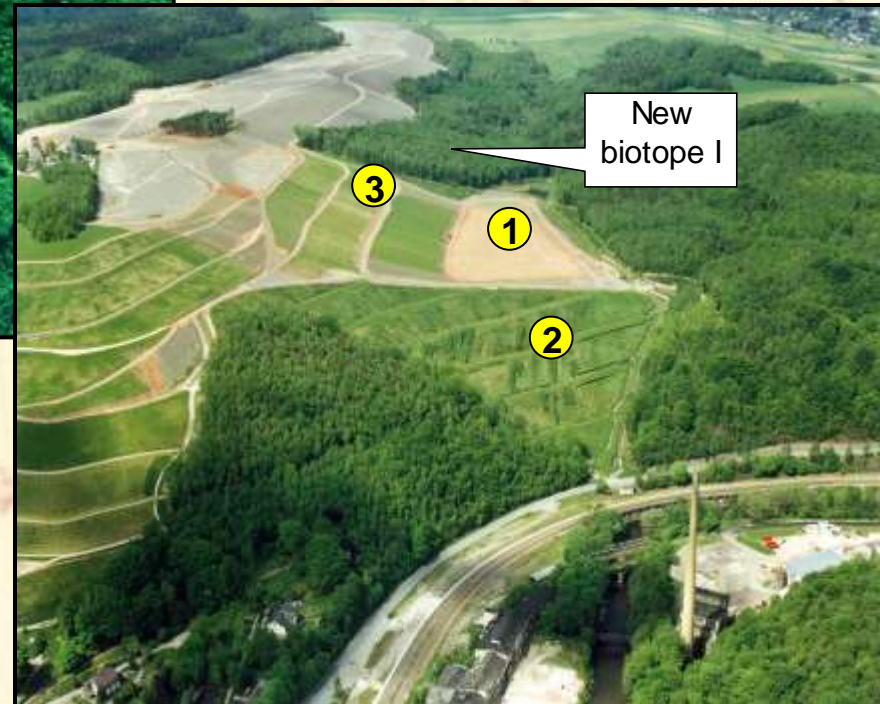
Situation 2014

http://www.wismut.de/de/nl-ronneburg_tagebau-lichtenberg.php

Hammerberghalde – Finishing the rehabilitation with recultivating



Situation in 1992



① Tailing dam with evaporation ponds

② Tailing dam

③ Tailing 382

Situation in 2005

Rehabilitation of former tailing dams, AngloGoldAshanti, Klerksdorp, South Africa, September 2006



starting new vegetation, 3 years old

Fe-Mine Cerro De Mercaro in Durango, Mexico, Open-cast-mining, March 2007



starting new vegetation, 5 years old

Open-cast, in the background the mine worker village

Situation 1991 and 2005: Uranium treatment plant and tailing Beerwalde

1991



2005

**Cu-Mo-Open Pit Mine, Erdenet,
Mongolia, October 2014**

Open Pit



Mine heap in the proximity to Erdenet

Current Situation

- ❑ Mining sector responsible for economic growth
- ❑ BUT: Mining sector is declining and
- ❑ The negative effects by mining will be felt for decades to come



tailings Dams in the southeast of Welkom (geotec, 05/2011)

Methodology

- ❑ Assessment of current situation
- ❑ Development of a data base for municipally and investors
- ❑ Design and draft of an "Investor's Guidebook" to attract pot. Investors
- ❑ Identify Investors and German companies to stimulate industrial development

Crucial Problems

- ❑ No integrated Water Management
- ❑ Waste Water Management
- ❑ Stakeholder Dialogue



Thank you for your attention!

Questions?

Do not hesitate.