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Project fiche

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Prevention of Landslide Dam Disasters in the Tien Shan, Kyrgyz Republic

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This project was developed as a result of the NATO workshop “Security of Rockslide Dams” that took place in Bishkek in 2004. The goal is to prevent disasters induced by mass movements and related dam hazards in the Tien Shan Mountains of the Kyrgyz Republic. The region is prone to strong earthquakes and harbours nuclear waste storage areas and major hydropower projects.

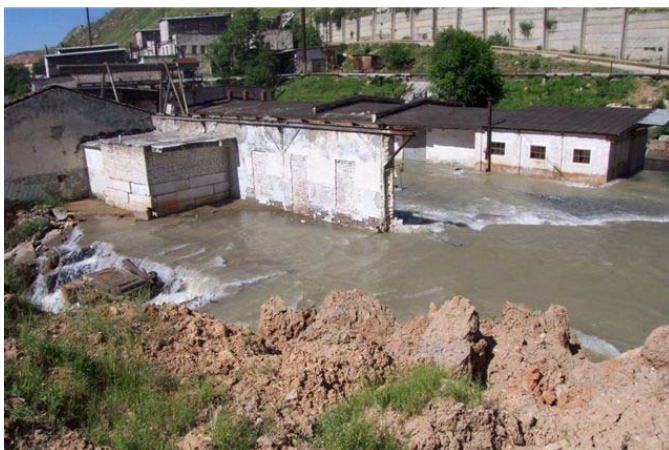
The goal will be achieved through regional mapping and geological investigations as well as 3 D-modelling of the mass movements. The model will be able to show how the landslides will form dams and cause subsequent up- and downstream flooding, destruction of infrastructure and destabilisation of the nuclear waste tailings at Minkush and Mailuu-Suu and hydropower plants on the Naryn River. Experts and authorities will use these risk scenarios to elaborate prevention and mitigation measures in collaboration with the Ministry of Emergency Situations of the Kyrgyz Republic.

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Duration: 3 years; expected completion by April 2012



Tektonik landslide dam breach of 2002 and flooding of nearby factory in Mailuu-Suu Valley.



Dr. A. Strom (second from right) showing Kambarata 2 dam site to students from Belgium and specialists from GEOPRIBOR (Sept. 2008).

(Photos courtesy of Dr. I. Torgoev and Dr. H-B Havenith.)

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