

NATO CCMS Pilot Study
PREVENTION AND REMEDIATION IN SELECTED INDUSTRIAL SECTORS:
Mega-Sites
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***Transboundary Cooperation
for Hazard Prevention in the
Kura-river Basin***

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GEORGIA





Location:
South Caucasus

Area:
69.700 km²

Population:
5.411.000

Capital:
Tbilisi

BASELINE INFORMATION



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Table 1 Total area of the Kura basin per country

	% of country	% of total basin area	Area (km ²)	Population (million)
Armenia	100.0	15.35	29,741	3.0
Azerbaijan	79.8	30.87	57,800	6.8
Georgia	52.4	18.53	34,700	3.0
Turkey + Iran	-	35.25	66,000	-
Total	-	20.00	188,241	20.0

RELEVANT PROJECTS

Water Management in the South Caucasus (USAID)

Joint River Management Programme-Kura Basin (TACIS)

Implementation of London Protocol in Georgia (DANCEE)

**Development of a Transboundary Cooperation for Hazard
Prevention in the Kura River Basin**

**Increase of Public Environmental Awareness and
Information in Transboundary Regions of the South
Caucasus Courtiers:**

**Watersheds of Debeda and Khrami Rivers
(CENN)**

TRANSBOUNDARY COOPERATION FOR HAZARD PREVENTION IN THE KURA- RIVER BASIN

- German Federal Ministry for the Environment, Nature Protection and Nuclear Safety;
- The Federal Environmental Agency of Germany;
- German Consulting Firm IABG;
- The South Caucasian States Armenia, Azerbaijan and Georgia.

PROJECT IS UNDER THE FRAMEWORK OF

- Convention on the transboundary effects of industrial accidents
- Seveso II Directive (on the control of major-accident hazards involving dangerous substances)
- Consideration the requirement of UNECE in respect to the transboundary effects of industrial averages and recommendations of necessary measures in view of security techniques for plants with a potential risk of water pollution.

MAIN OBJECTIVE OF THE PROJECT

- Determination of the technical and administrative feasibility for consultancy services;
- Preparation of a warning and alarm system in Armenia, Azerbaijan and Georgia;
- Implementation of international central warning centers for transboundary communication;
- Registration of all activities relevant for industrial activities in the Kura river basin
- Investigations of concrete enterprises hazardous to waters
- Consequent recommendations aiming to improve the safety of installations.

Elaboration and Implementation of Measures for Hazard Prevention in the Kura River Basin

Since the project was local experts of each South Caucasian State gathered basic data dealing with the inventory of hazard potentials and the prevention of possible hazard incidents in the river basin of Kura.

The basic data comprise the following subjects:



- Existing contingency plans or related Regulations;
- Contingency plan;
- Safety report;
- On site contingency plan;
- Off site contingency plan;
- Major accident prevention policy;
- Existing main warning centers or related installations;
- Existing data base or data pool of operations.

INVESTIGATION OF ENTERPRISES

Looking at the results of the accidental risk spots inventory each South Caucasian country identified and proposed three industrial enterprises for further pilot investigations.

- Armenia

Chemical industry (river Razdan – Araks)

Chemical industry (river Debed – Kura)

Mineral processing (river Debed – Kura)

- Azerbaidjan

Textile processing (river – Alasani/ Kura)

Oil refining

Power supply (river Kura)

- Georgia

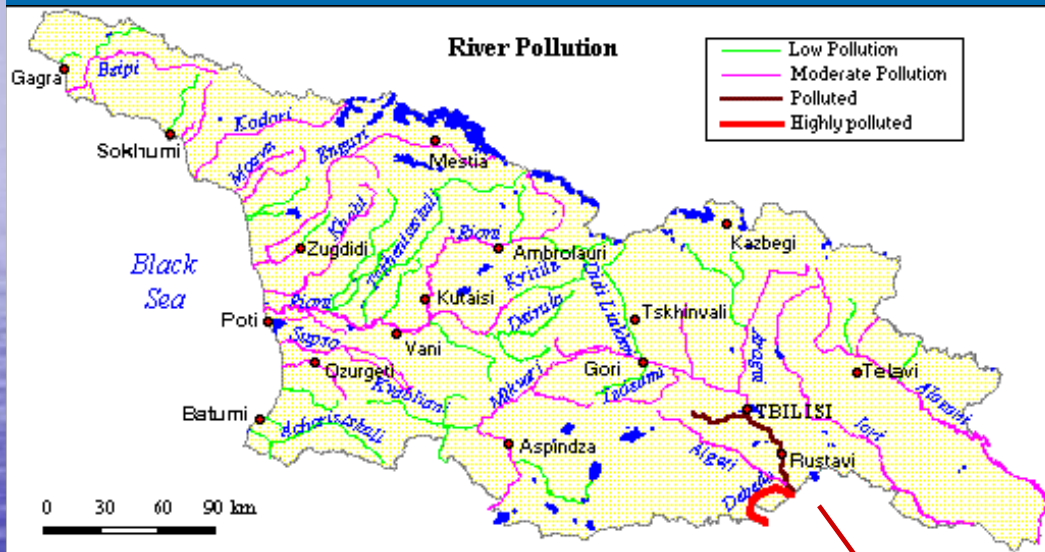
Chemical industry (river Kura)

Rail body processing (river Kura)

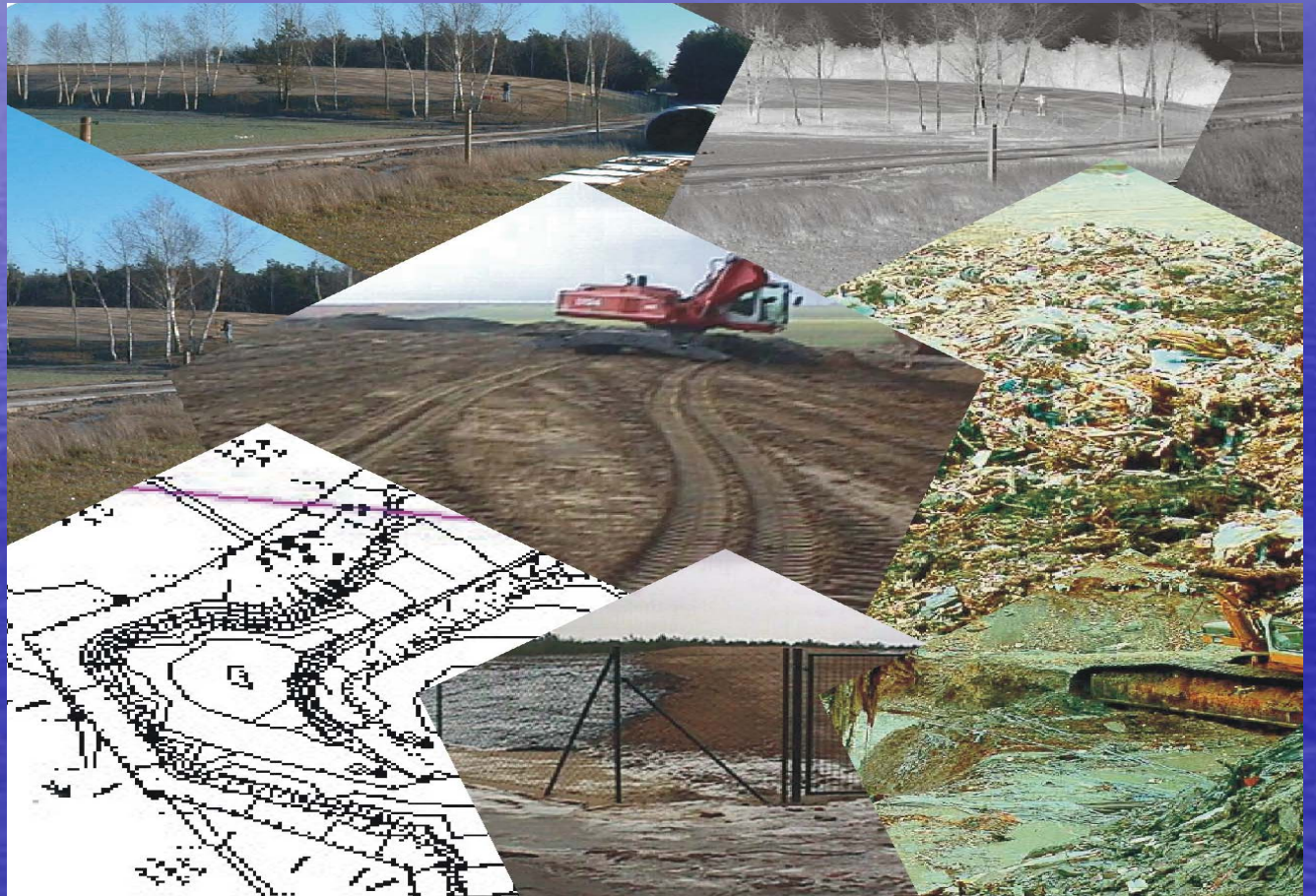
Mining industry (river Maschawera – Kura).



Water Pollution



Madneuli Mining (copper, lead, zinc, barite and gold). The mine is located in an agricultural region where about 20,000 people live. In 1992, the copper content in the Kazretula river was 220 times higher than legal standard, zinc – 65 times.



EXPECTED RESULTS

- Definite reduction of water pollution in the Kura river basin caused by industrial accidents
- Development of a system for successive implementation of European standards concerning requirements for safety of industrial plants hazardous to water with the aim of a continual improvement to water protection.
- Technology and information transfer in the field of systems and safety engineering and hazard management
- Improvement of cooperation through the realization of a joint international warning and alarm system for the Kura river basin

The PROJECT SUPPORTS THE FOLLOWING ACTIVITIES AND PROCESSES

- Preparation to join the United Nations Economic Commission for Europe (UN ECE) convention "On the Transboundary Effects of Industrial Plants"
- Step-by-step implementation of measures in order to increase the security level of industrial plants
- International knowledge exchange, transfer of project results on other river basins aiming at a sustainable development in the whole region
- Preparation of the Kura Convention
- Preparing the founding of the International Commission for the Protection of the Kura River
- Improvement of the water quality of the Kura River as a resource for drinking water supply

THANKS FOR ATTENTION