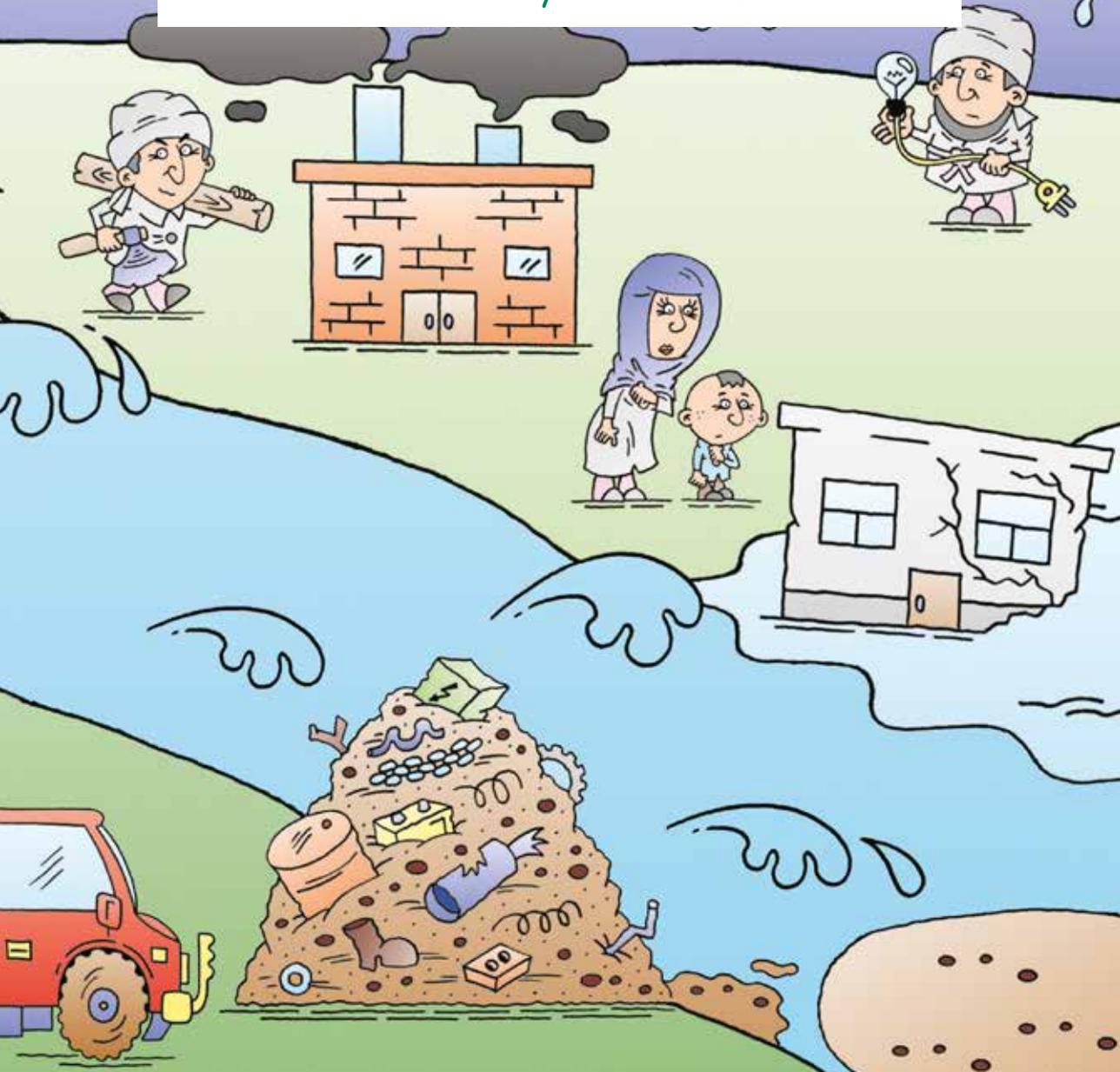


Environment and Hydrology Cooperation between Afghanistan and Tajikistan

A Summary in Cartoons





Environment and Hydrology Cooperation between Afghanistan and Tajikistan

A Summary in Cartoons

Acknowledgements

This publication has been produced by Zoï Environment Network in collaboration with the countries, the United Nations Economic Commission for Europe (UNECE) and OSCE Office in Tajikistan with generous support of the Russian Federation.

Concept: Viktor Novikov and Aman Berdiev (Zoï Environment Network)

Cartoons: Ruslan Valitov (Zoï Environment Network)

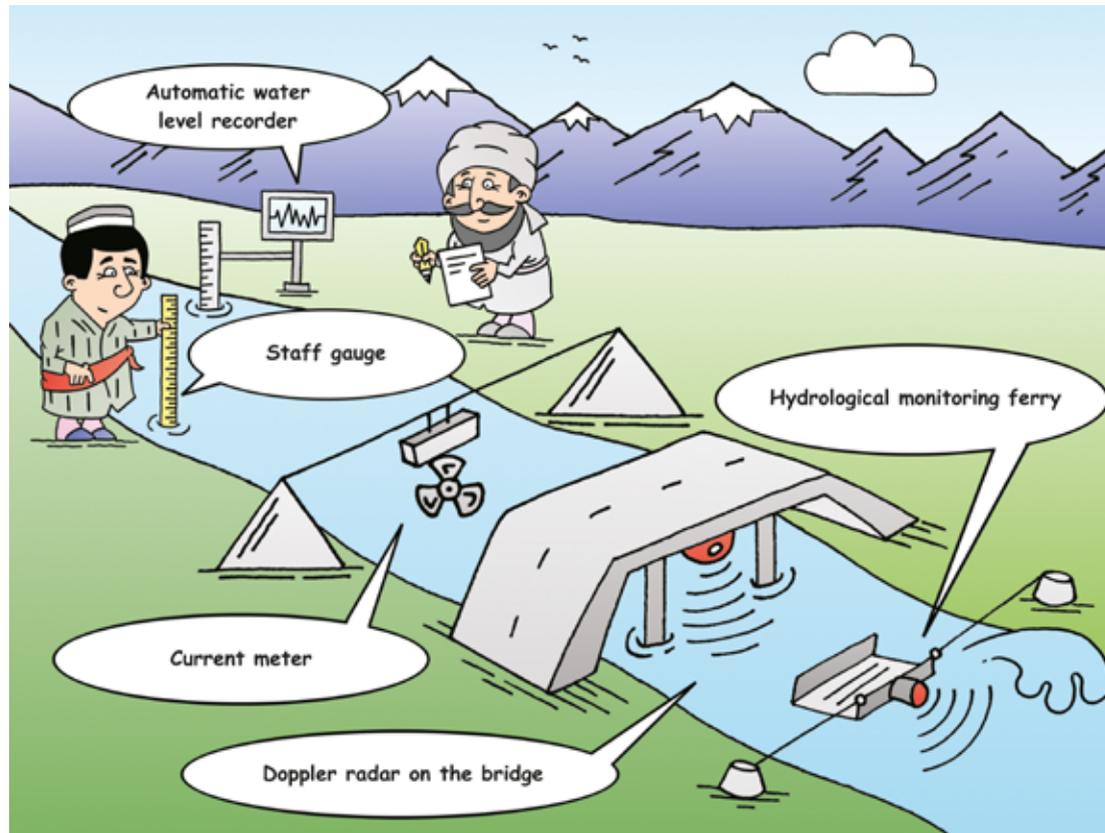
Text: Geoff Hughes (Zoï Environment Network)

Contributors: Firuza Illarionova, Anvar Homidov, Azizullah Omar, Nickolai Denisov, Julia Denisova

Layout: Maria Libert (Zoï Environment Network)

-
-
1. Hydrology basics and river measurements
 2. Water information needs of users
 3. Hydrological data exchange
 4. Natural disasters and cooperation
 5. Cooperation in the prevention of environmental crimes
 6. Forest plantations and the conservation of genetic resources
 7. Joint expeditions and environmental assessments
 8. Glacier monitoring and climate change assessments
 9. Training and experience exchange
 10. Cooperation along the border
 11. Common environmental problems

Hydrology basics and river measurements



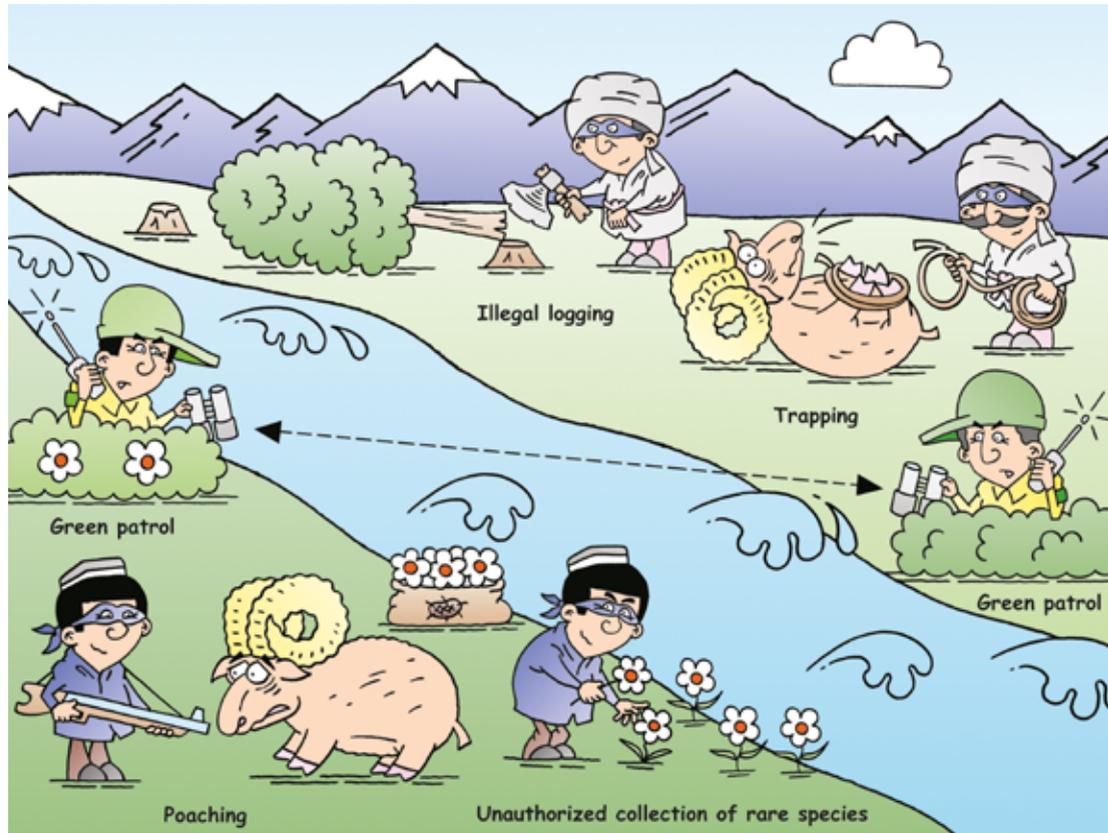
Water information needs of users



Hydrological observations in the Upper Amu Darya basin depend on the available infrastructure and follow methods suitable to the specific geographic and hydrologic conditions. Measuring the water discharge of this rapid and turbulent mountain river is not as easy as measuring the water level.

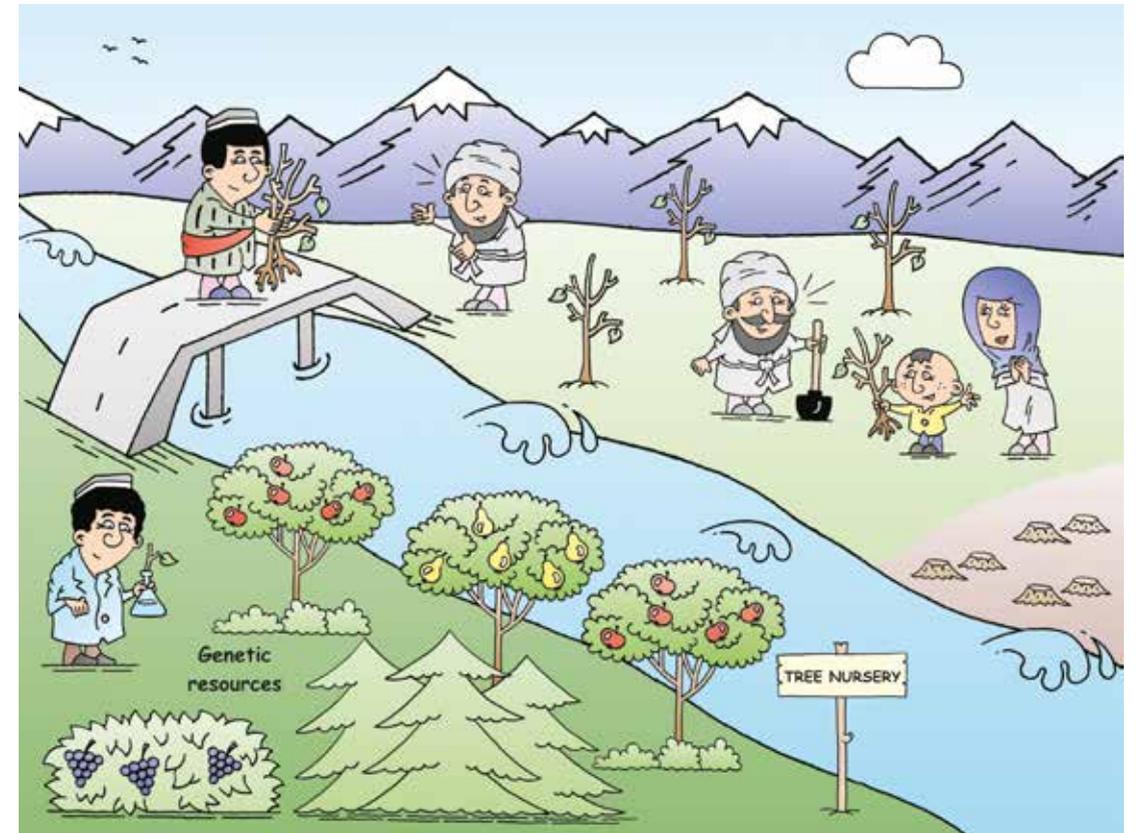
Some users need water information in real time, and others prefer processed data and aggregated formats. The applications range from the technical and farming to policymaking and interstate cooperation. Meeting the needs of all users requires well-developed hydrological monitoring, careful preparation of water information and robust data exchange.

Cooperation in the prevention of environmental crimes



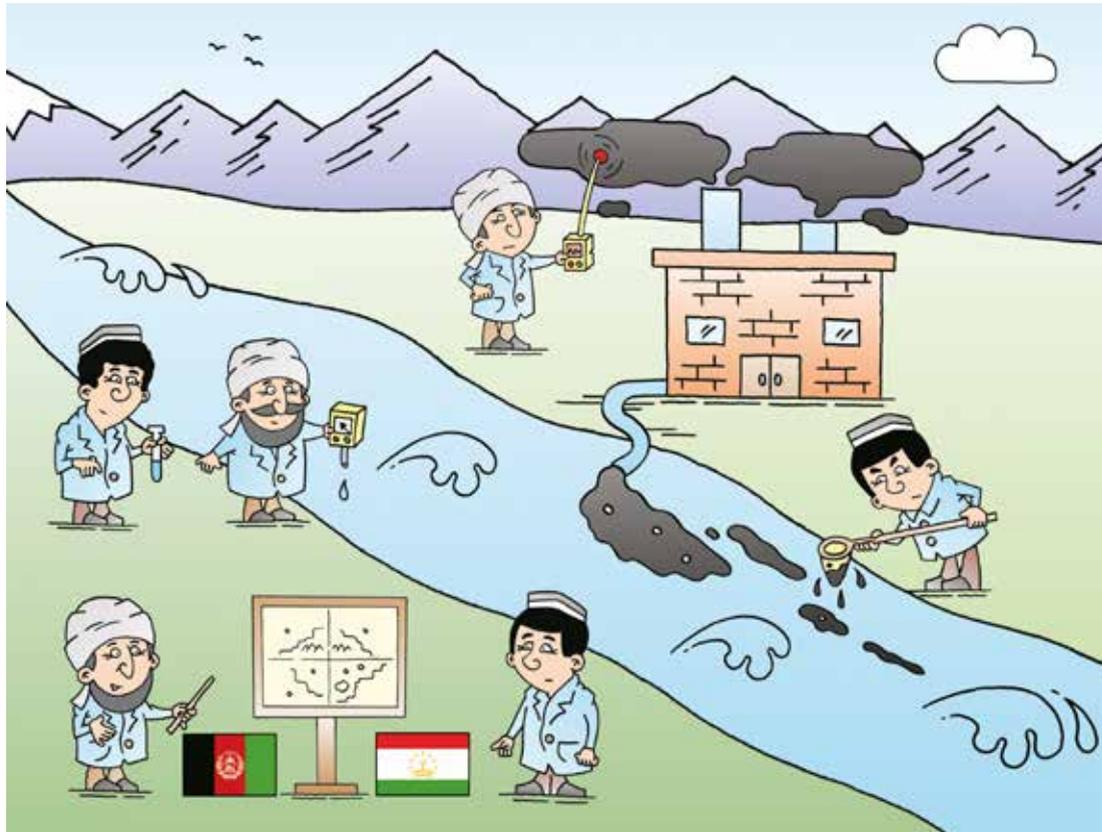
Environmental crimes are harming natural resources, and the decline in migratory species, genetic resources or forest cover on one side of the river may negatively affect the other. Improved protection depends on close cooperation between law enforcement agencies and the establishment of common protected areas and compatible regulations.

Forest plantations and the conservation of genetic resources



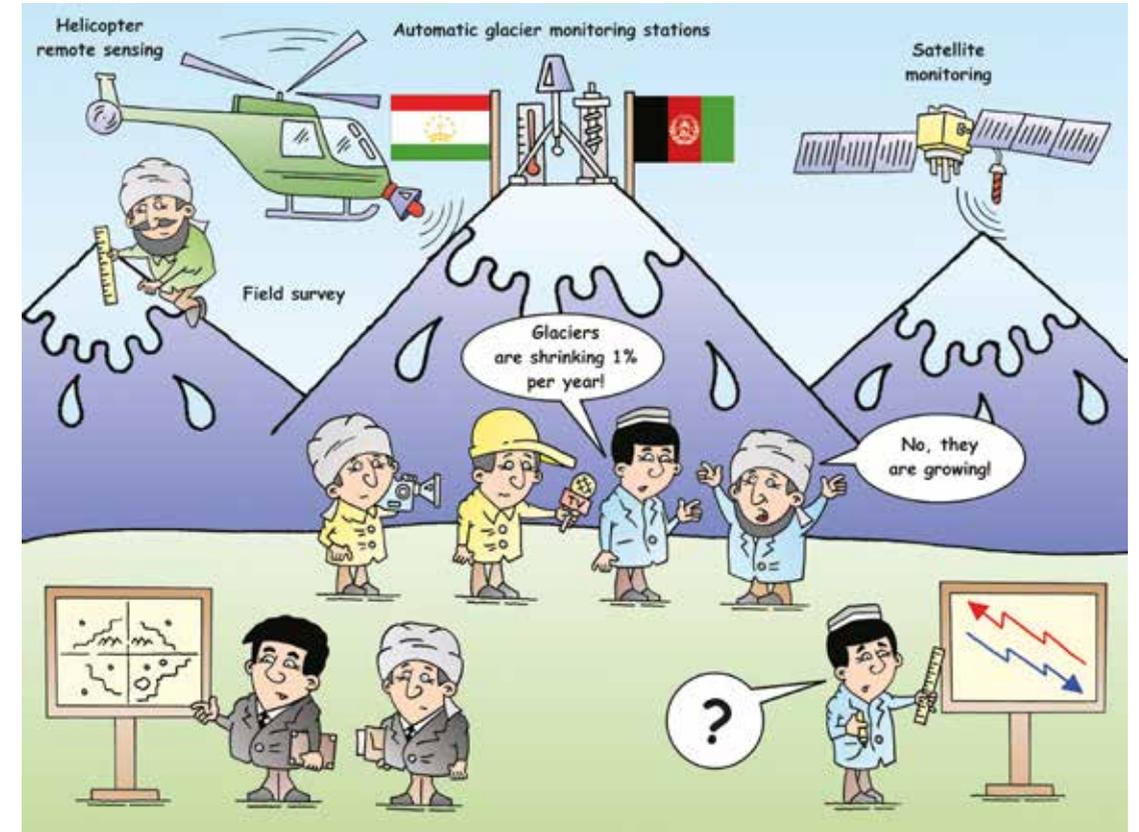
Afghanistan and Tajikistan need to protect their genetic resources and precious forests. Mutual efforts in afforestation and in the conservation of genetic resources may benefit both the ecosystems and the local populations.

Joint expeditions and environmental assessments



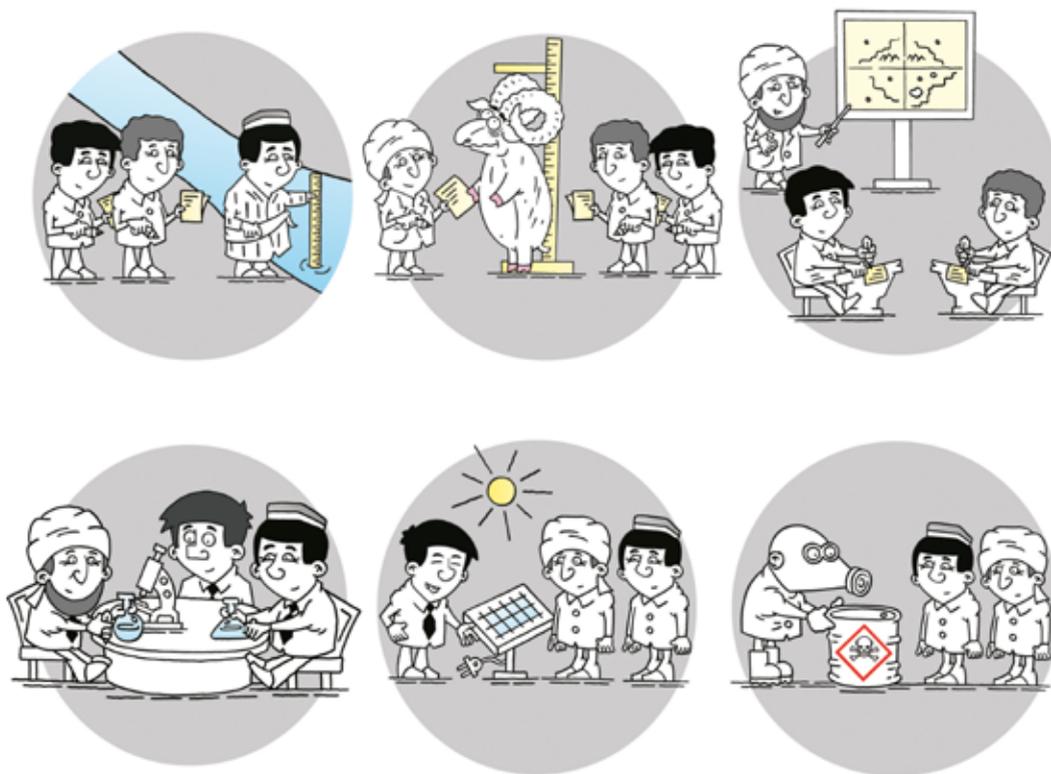
Afghanistan and Tajikistan intend to carry out joint expeditions to study the state of the environment, to conduct environmental assessments, and to plan and implement measures to restore and maintain a clean environment.

Glacier monitoring and climate change assessments



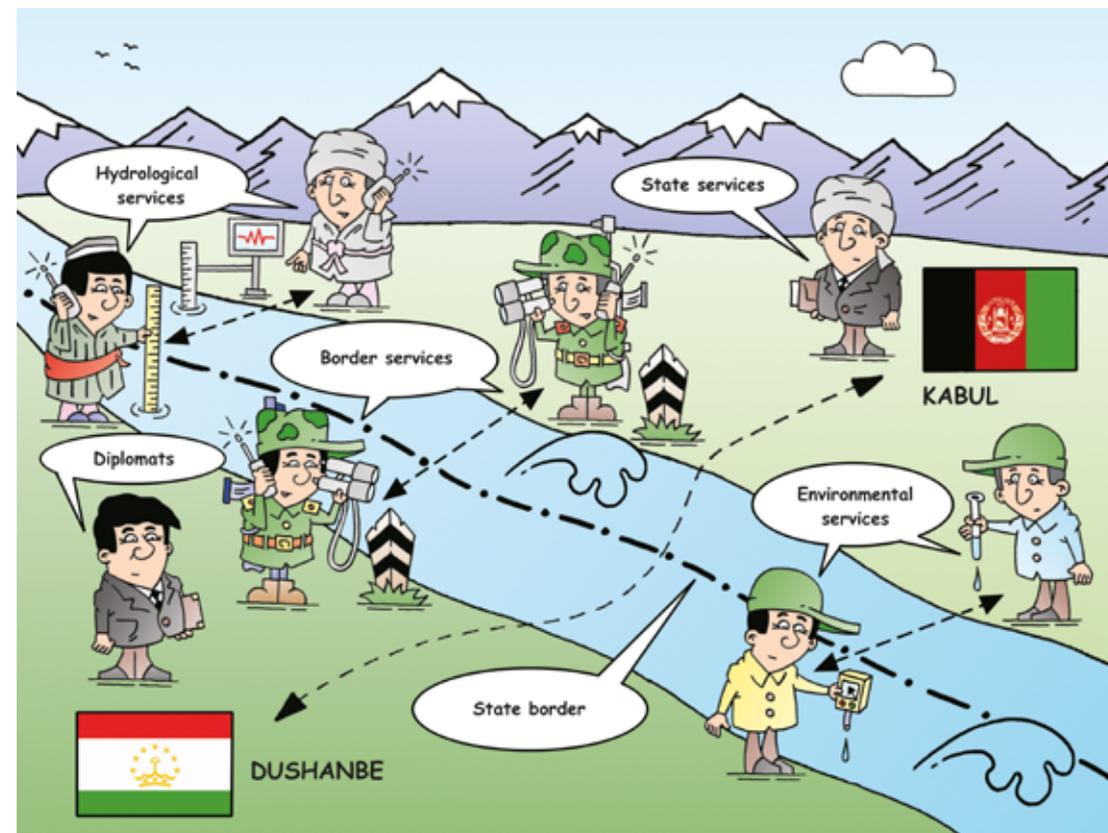
Inconsistent approaches to the assessment of climate change and melting glaciers have produced different results and plans for action. Closer cooperation and coordination may help narrow the range of gaps and improve responses.

Training and experience exchange



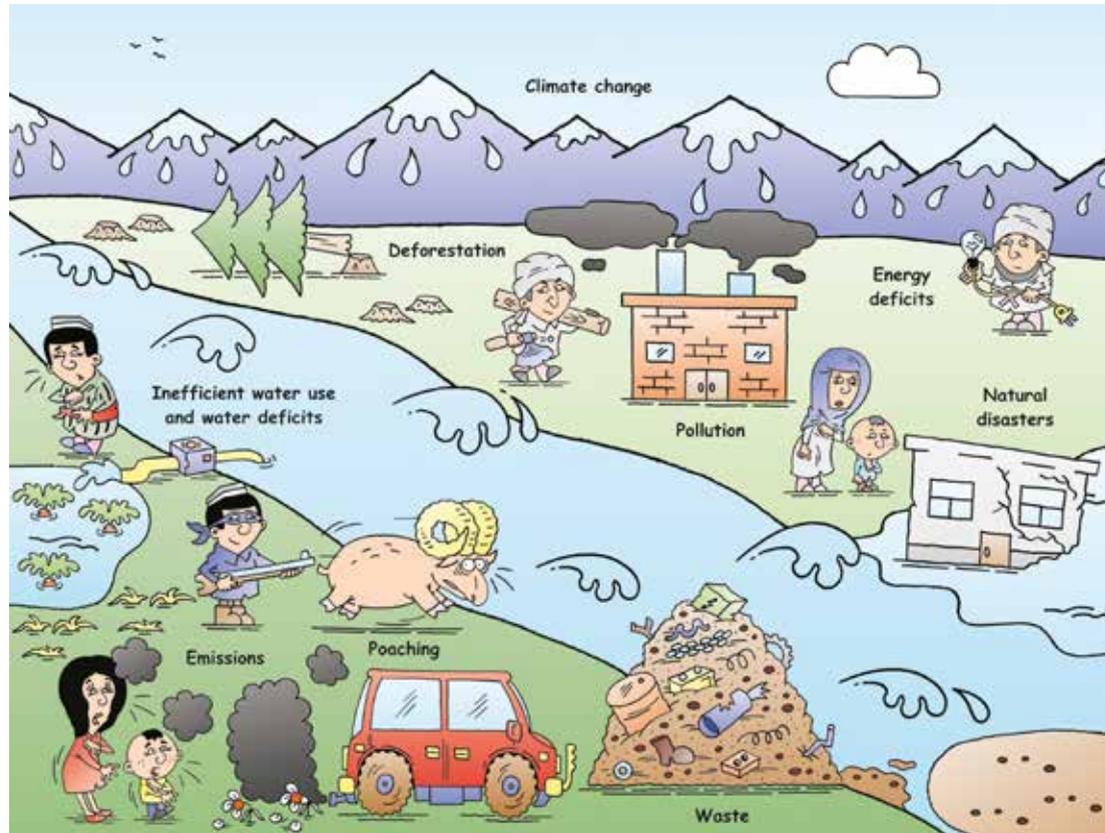
The Afghan-Tajik cooperation process for hydrology and the environment involves training and experience exchange. A major benefit of this process is that the younger generation and students are learning from local professionals.

Cooperation along the border



The security of the hydrological and environmental services personnel working on the Amu Darya is a matter of great importance. Access requires special permission, but the rough mountain terrain makes the Afghan-Tajik border area difficult to control, and the countries are developing systems and networks at all levels to ensure the security of the workers.

Common environmental problems



Afghanistan and Tajikistan face a number of environmental challenges, some more important in one country, some in the other. Cooperation on environmental problems leads to mutual solutions that are efficient and that strengthen cross-border relations.

