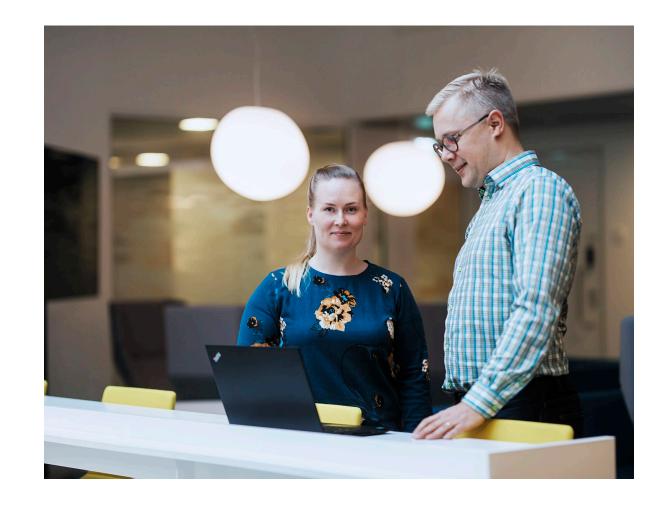




GEOLOGICAL SURVEY OF FINLAND

- Founded in 1885, GTK is an internationally oriented geoscience research agency operating under the Ministry of Economic Affairs and Employment.
- We are a leading European competence center on the assessment and sustainable use of geological resources.
- For our customers and partners we provide geological expertise to create solutions to accelerate the transition to sustainable and carbon-neutral world.
- We offer diverse expert and research services, continuously developing digital services and a broad range of laboratory services.
- www.gtk.fi





GTK'S MFA PROJECTS IN CENTRAL ASIA

2009-2011, Preparatory Phase

Kazakstan, Kyrgyzstan, Uzbekistan, Tajikistan and Turkmenistan

2011-2014

Development of Geoinformation management infrastructure Kazakstan, Kyrgyzstan, and Tajikistan

• 2014-2019

Strengthening the mastering of natural resources for national welfare in the Kyrgyz Republic / in Tajikistan

Separate projects in Kyrgyzstan and Tajikistan

- WP1: Climate change and modern techniques
- WP2: Strengthening of geoinformation chain and distribution
- WP3: Regional aspects and administration





ROLE OF GEO-SECTOR

- Management of Natural Resources (Minerals, Soil and Groundwater)
- Infrastructure planning
- Monitoring of Groundwater,
 Geohazards and Environment
- Protection and improving living conditions for citizens





STRENGTHENING THE MASTERING OF NATURAL RESOURCES FOR NATIONAL WELFARE IN

the Kyrgyz Republic, Phase II

1.7.2020-31.12.2022

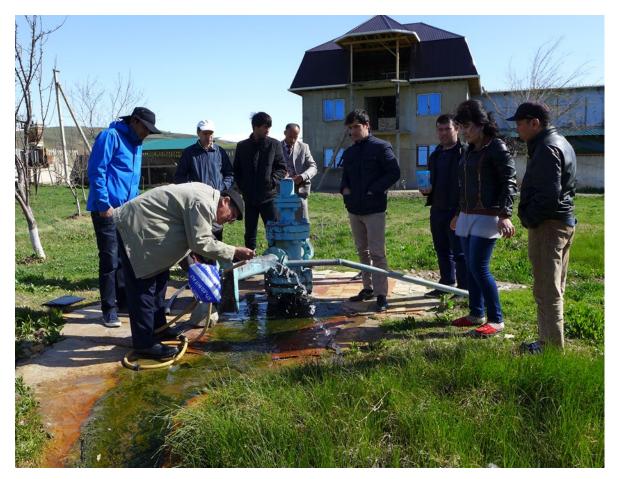
Department of Geology and Subsoil Use under the Ministry of Mineral Resources, Ecology and Technical Supervision of the Kyrgyz Republic.

Uzbekistan

17.2.2022 -31.12.2024
State Committee of the Republic of Uzbekistan on Geology and Mineral Resources

Tajikistan, Phase II

Main Department of Geology under the Republic of Tajikistan





GEOINFORMATION

- Digitalization and storage
 - Data management
 - Digitizing and databases: Hydrogeological and geohazard maps
 - Countrywide Digital Geological Map
- Distribution
 - Central Asian Geoportal





GROUNDWATER

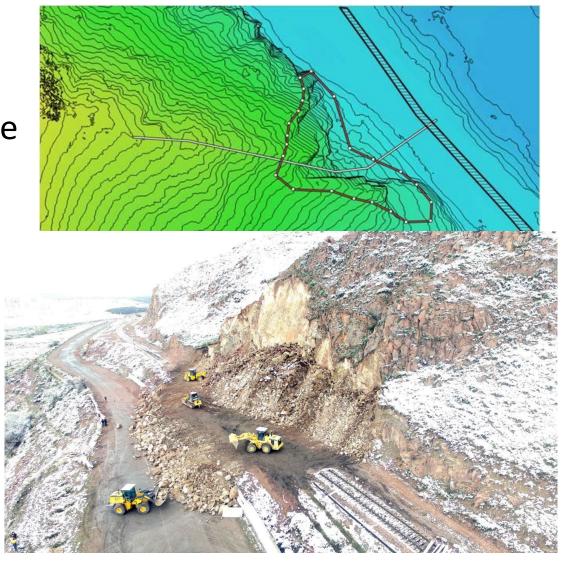
- Monitoring groundwater wells
- Pilot area:
 - Aquifer monitoring
 - Modelling
 - Geophysical measurements
- Sampling techniques
- Target areas (water sampling+ comparison analyses
- Isotope analyses (monitoring groundwater/surface waters)
- Database: Groundwater wells
- Digitizing: Hydrogeological maps





GEOHAZARDS

- Interpretation of satellite images, remote sensing
- Target areas: monitoring and follow-up by drone
- Databases
- Digitizing of geohazard maps
- Interpretation of mass movements
- Strengthen early warning of geohazards





MODELL OF IMPLEMENTATION

- "On-the-job" training by GTK experts
 => all work done by local staff
 - New working processes
 - New expert groups
 - Team work between groups & experts
- Regional cooperation







Thank you!

