



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss cooperation program in

Tajikistan and Central Asia



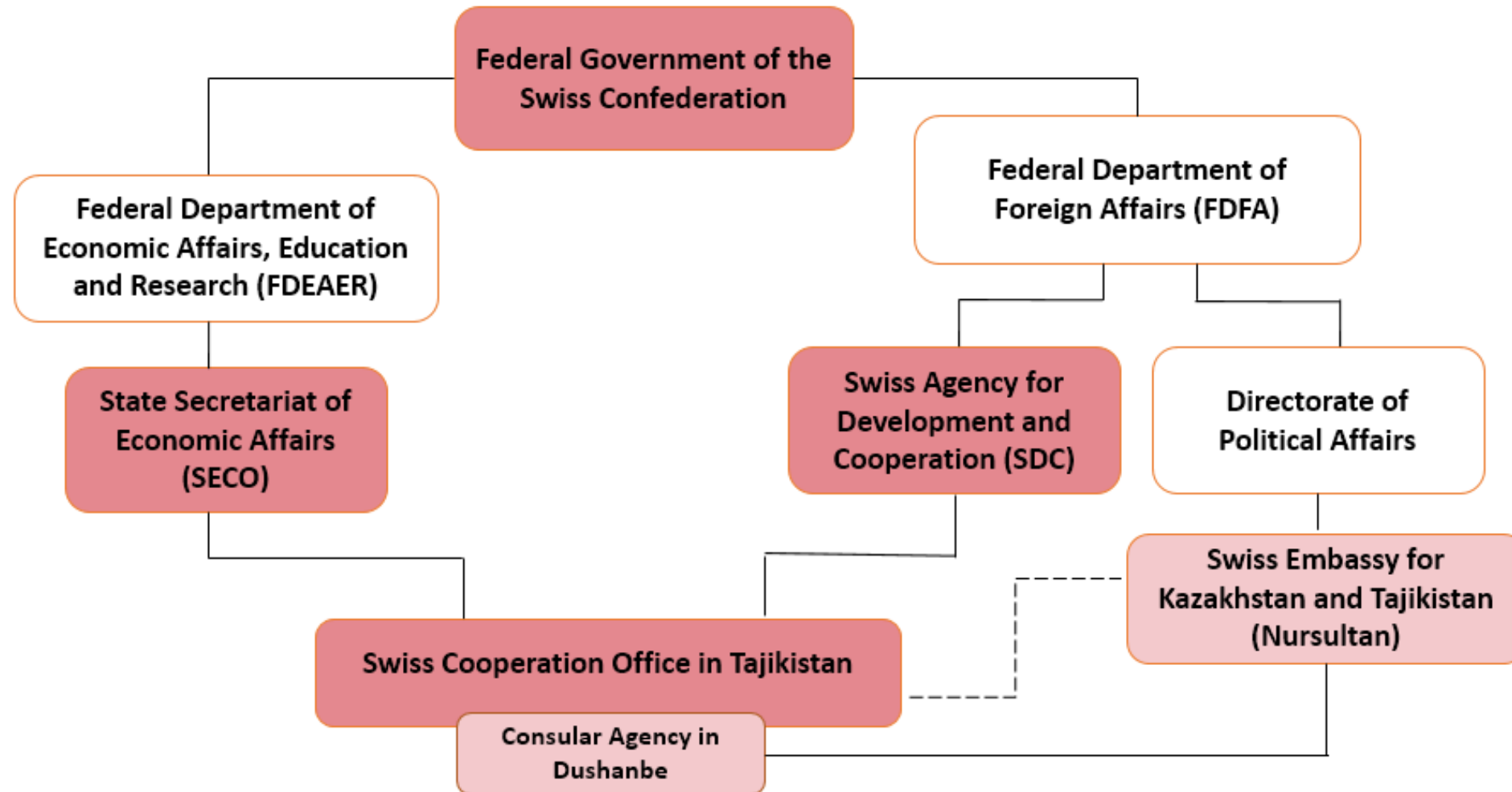
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Swiss Agency for Development and Cooperation
Senior Advisor for Climate, DRR and Environment

19 May 2023, Dushanbe



The Government Of Switzerland





Domains of **Central Asia Cooperation Program** 2022-2025



**WATER,
INFRASTRUCTURE
AND CLIMATE
CHANGE**



**GOVERNANCE,
HUMAN RIGHTS AND
SERVICE DELIVERY**



**INCLUSIVE AND
SUSTAINABLE
ECONOMIC
DEVELOPMENT**



Addressing the challenges



Rehabilitation and construction of water systems in urban and rural areas.



Training people to adopt rational water consumption and improved hygiene and sanitation practices.



Building public community latrines.



Promoting gender equality in the Drinking Water Organizations.



Improving performance of water utilities.



Ensuring fee collection rate for the electricity: Pamir Energy.



Opening a platform for natural hazards data assessment and analysis.



Introducing the Integrated watershed management (IWSM) approach into river basin planning processes.



Partnerships

State Ministries

- Ministry of Energy and Water Resources
- Ministry of Economic Development and Trade
- Ministry of Foreign Affairs
- Ministry of Finance
- Ministry of Justice
- Ministry of Culture
- Ministry of Health and Social Protection

State Committees and Agencies

- State Committee on Investment and State Property Management
- Committee for Environmental Protection
- Committee for Emergency Situations
- Agency on Land Reclamation and Irrigation
- Committee for Women and Family Affairs

**SCO
Tajikistan**

Banks

National Bank of Tajikistan

Non-state partners

Civil society organizations
Private sector

Local Governments

Oblast, city and district local governments and jamoats



Partnerships

International Finance Institutions



Multilateral



International NGOs



Swiss NGOs



Private sector





WORLD
METEOROLOGICAL
ORGANIZATION



Weather-Water-Climate Services (WWCS)
for more resilient food systems



- The WWCS project is providing efficient weather, water and climate services for the rural population of Tajikistan, especially those highly vulnerable to climate change;
- It will contribute to the improvement of their livelihoods and resilience;
- As a result, people in the project area will use accurate/timely forecasts and improve agricultural productivity, hence guarantee food security, effectively manage irrigation water and reduce vulnerability to hazards.



- Duration 01.06.2021 - 31.05.2025
- Target area: Rasht valley (districts: Lyakhsh, Rasht, Sangvor, Tojikobod, Nurobod) and Eastern Khatlon (Muminobod, Khovaling, Kulob, Shamsiddin Shohin)

Outcome 1: Tajik Hydromet provides timely, effective and demanded weather, water and climate services.

Outcome 2: Farmers utilize WWCS to inform their decisions for effective agronomic practices, diversified crop mix associations and sustainable land management practices.

Outcome 3: Communities and authorities in target areas employ WWCS to manage risks from natural hazards;

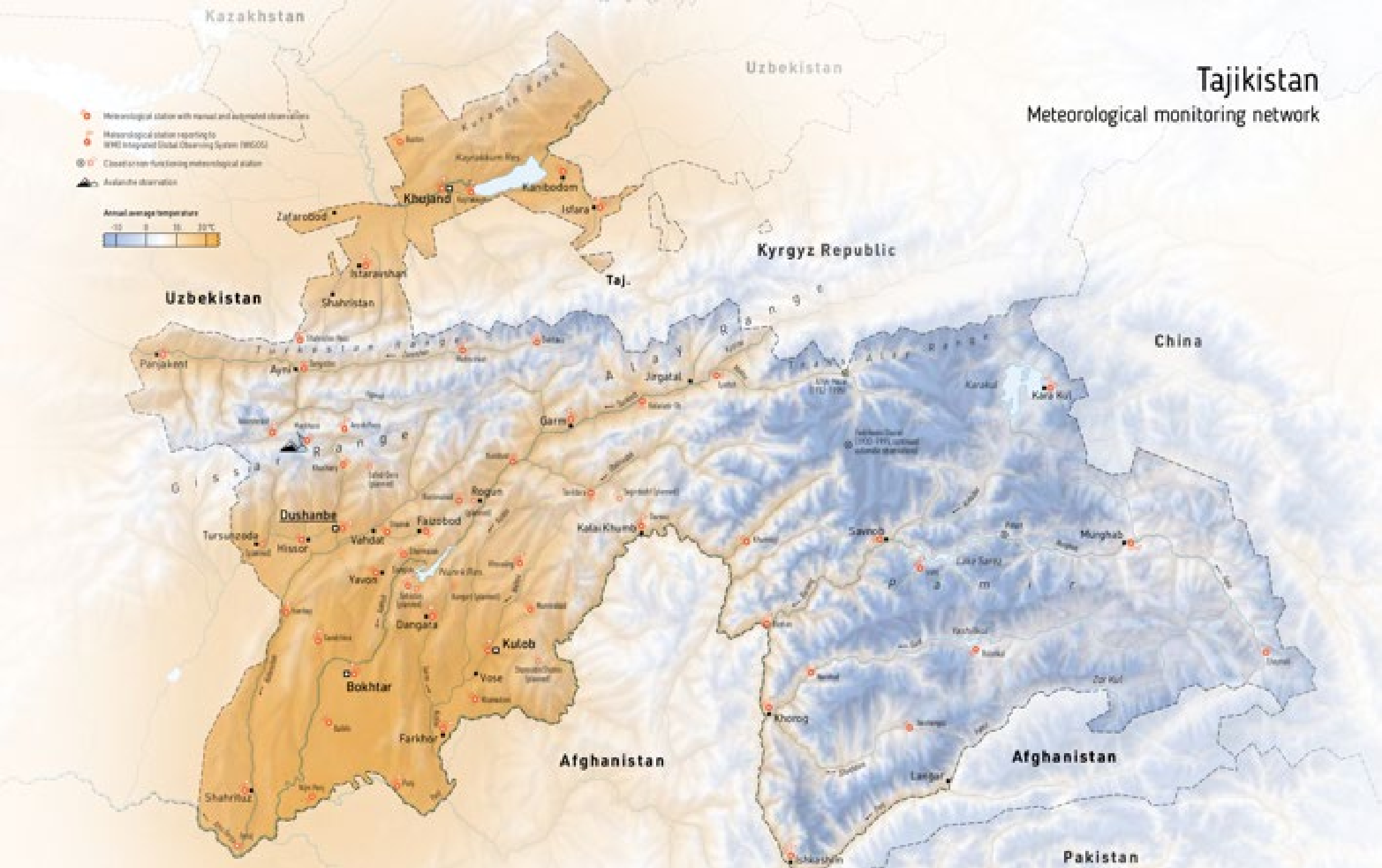
Outcome 4: Governmental structures at all levels (national, oblast, district, jamoat) incorporate WWCS into their development processes.



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Weather, water and climate services for resilient rural livelihoods, Tajikistan



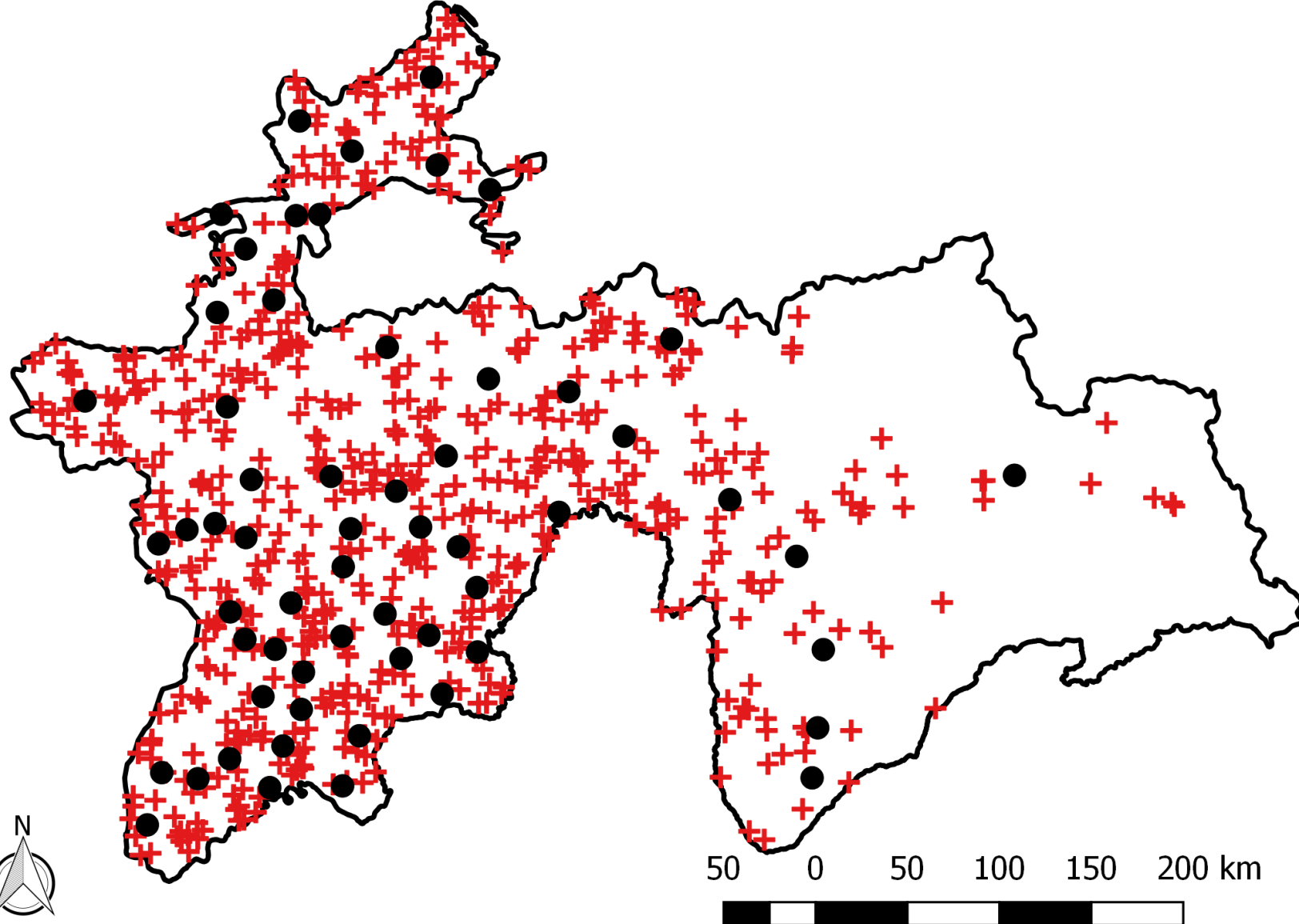


Zoi
environ
mental
network



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Weather, water and climate services for resilient rural livelihoods, Tajikistan





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Projects in Tajikistan



AGA KHAN FOUNDATION



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Swiss Confederation
Конфедератсия Швейцария

Improving community resilience through sustainable livelihoods in Rasht valley, Tajikistan



PUBLIC ORGANIZATION
"MOUNTAIN SOCIETIES DEVELOPMENT
SUPPORT PROGRAMME"



accelerate
prosperity



Aga Khan Agency for Habitat



Improving community resilience through sustainable livelihoods

- Duration: 01.12.2022 - 30.11.2027
- Target Area: Rasht valley: Fayzobod, Roghun, Nurobod, and Sangvor.

Outcome 1: Community members actively participate in the design, implementation of local development processes.

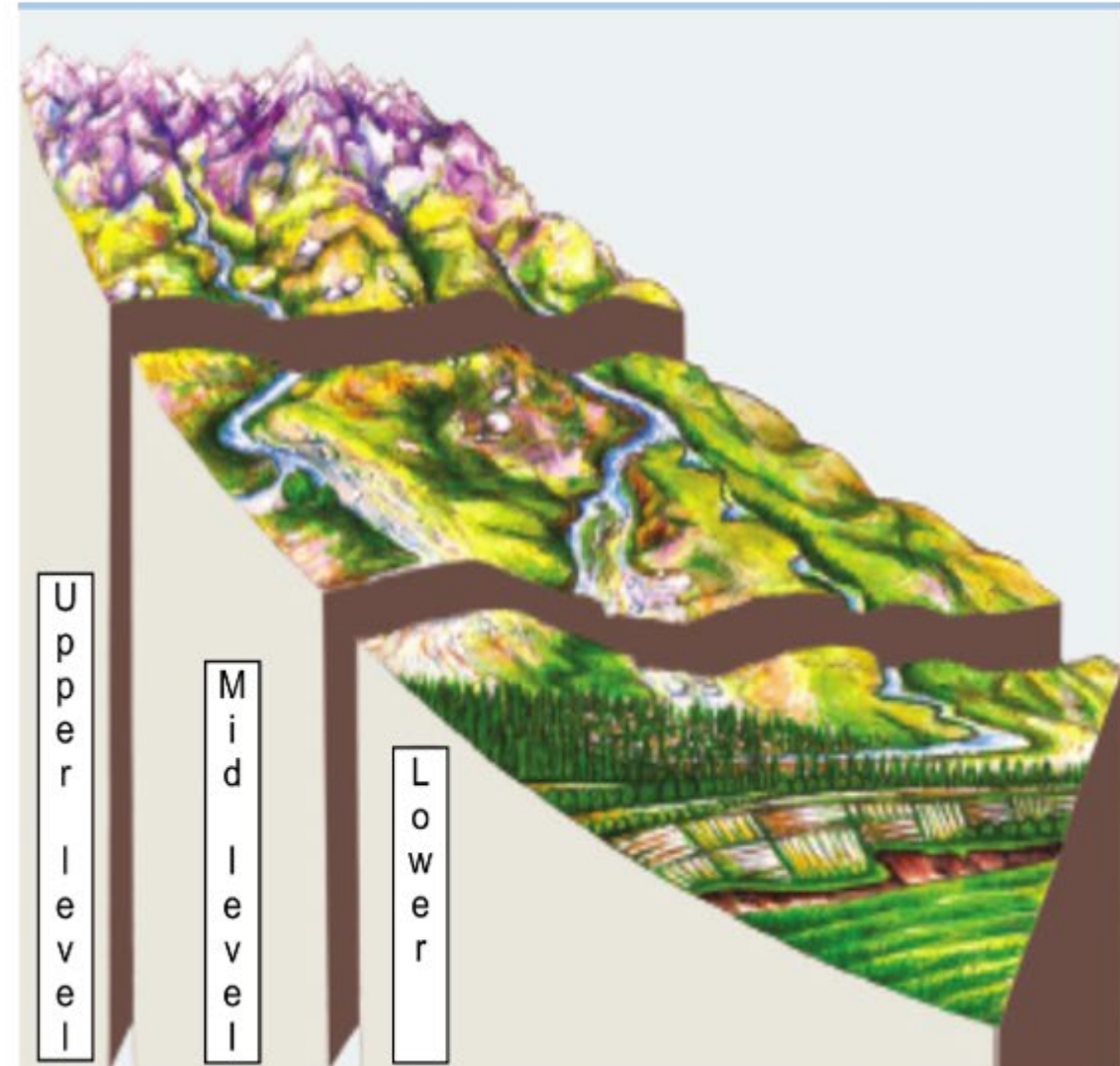
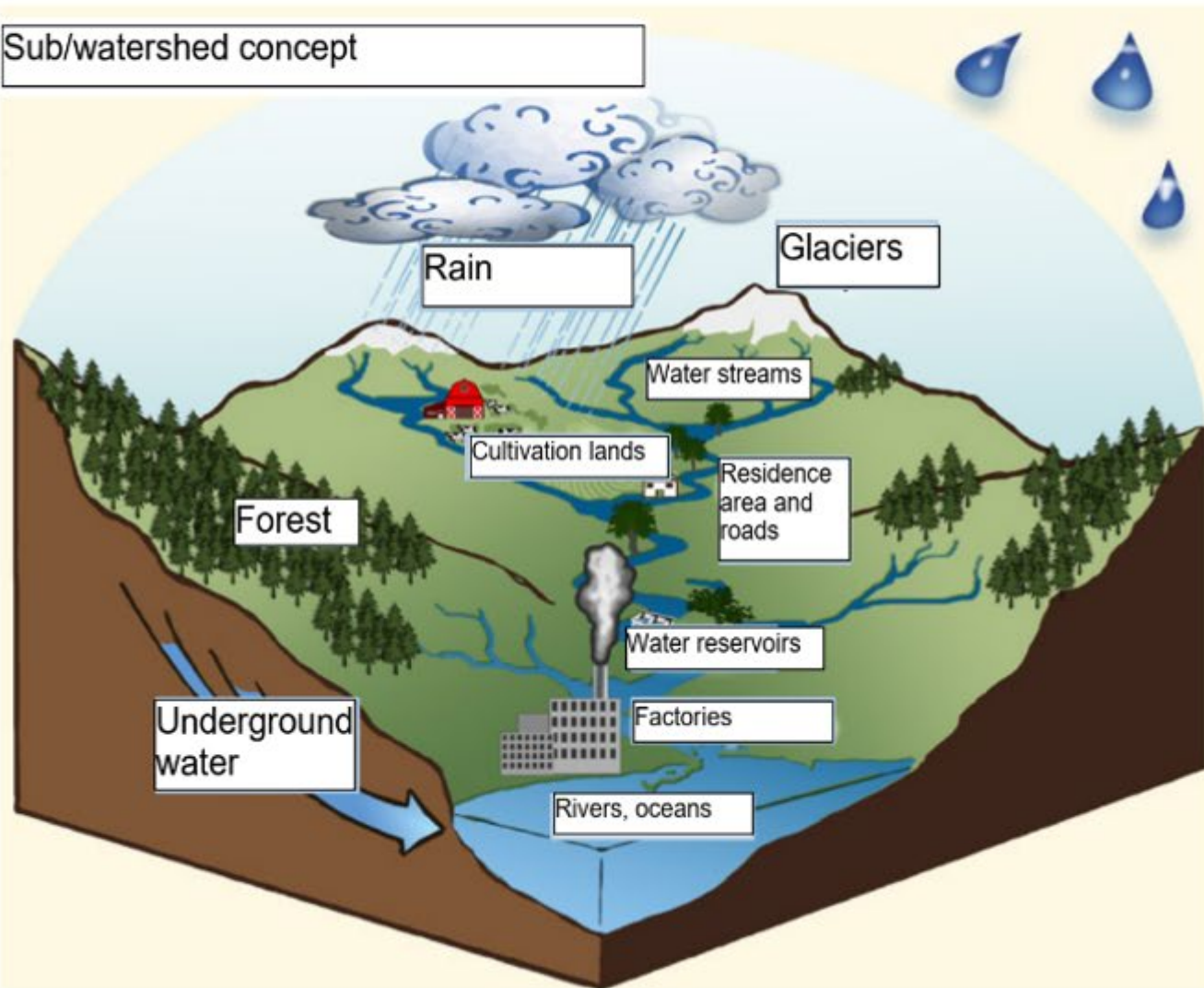
Outcome 2: Communities have equitable access and equitably use vital services (such as water and sanitation, childcare services) which are effectively provided by public and private actors.

Outcome 3: Women and youth generate a sustainable income.

Outcome 4: Communities engage in management, regeneration and protection of their natural resources and adopt climate change disaster risk reduction measures and practices.

Sub-watershed approach (sample)

Sub/watershed concept







SCO Water Infrastructure Climate Change Pipeline with focus on Climate Resilience:

- Conservation of biodiversity in the view of climate change adaptation
- Land restoration
- Green economic development – climate finance for adaptation
- Etc.



Regional Programme: Central Asia

Blue Peace Central Asia

CAWEP - Central Asia Energy and Water Programme

UNESCO – Governance of Transboundary aquifers



CROMO-Adapt - Cryospheric Observation and Modelling for improved Adaptation in Central Asia

SAPPHIRE Central Asia - Smart & Precise Prognostic Hydrology for Innovative Risk Management and Resource Use Efficiency



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Regional Programme: Central Asia



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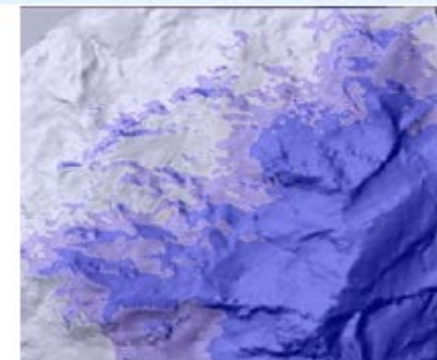
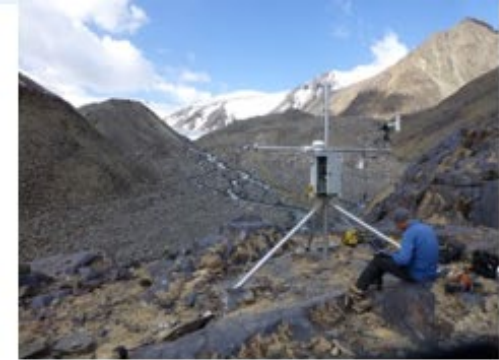


CROMO-ADAPT: Cryospheric Observation and Modelling for improved Adaptation in Central Asia

Funded by: Swiss Agency for Development and Cooperation (SDC), University of Fribourg, Swiss Federal Institute for Forest, Snow and landscape Research (WSL): Institute for Snow and Avalanche Research SLF

T. Saks, T. Mathys, M. Hoelzle, J. Fiddes, University of Fribourg and WSL-SLF Davos





CROMO-Adapt Project structure

- Level
- No
 - Basic
 - Intermediate
 - Advanced

OC1:
Establishment and sustainable management of cryospheric monitoring networks

OC2:
Cryosphere data and information fed into science policy dialogues

OC3:
Adaptation measures are identified and implemented in selected watersheds

Infrastructure

Training
 MSc curricula Supported by UNESCO
 Summer Schools Supported by GEF/UNESCO
 MSc PhD/MSc exchange Supported by GEF/UNESCO

Enforce regional collaboration
 Integration of Cryospheric Services into national services
 Outreach in collaboration with partners

Application WRM **Application DRR**
 In collaboration with partners

	Glaciers	Snow	Permafrost				
Kyrgyzstan	Maintenance	First steps	Installation	Advanced training	Advanced	Medium stage	Medium stage
Uzbekistan	Maintenance	First steps	Installation	Medium training	Intermediate	Medium stage	Medium stage
Tajikistan	Maintenance	Pilot study	Installation	Basic training	First steps	First stage	Basic steps
Kazakhstan	Selected Support	Selected Support	Selected Support	Advanced training	Advanced	Medium stage	Advanced stage

Focus countries

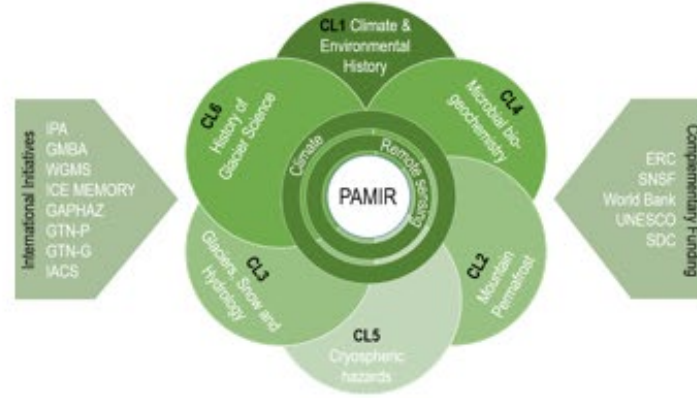
CROMO-ADAPT

Long-term
Permafrost & Snow Monitoring



PAMIR

Interdisciplinary project
with six research clusters



GEF-UNESCO

Long-term
Glacier Monitoring

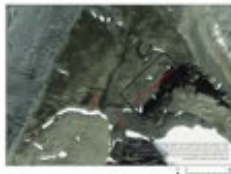
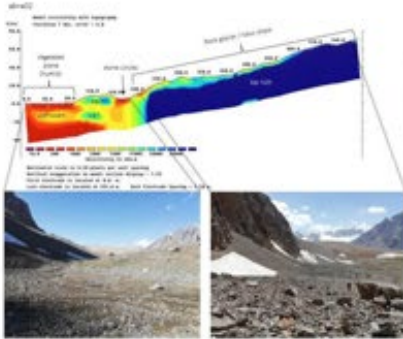


Better knowledge
of the cryosphere
trends
and climate impacts



Regular glacier
monitoring and
regional
exchange

University
of
Fribourg –
Current
projects
in Central
Asia



	Electrical resistivity tomography (ERT) Geophysical profiles	Cluster 2/5 Location Distributed fashion		Refraction seismic tomography (RST) Geophysical profiles	Cluster 2/5 Location Distributed fashion
	Mechanical drill rig Drill holes for the borehole thermometry	Cluster 2/5 Location Permafrost sites		Borehole Thermistors Measure borehole temperature	Cluster 2/5 Location Permafrost sites
	GST logger Measure temperature below the surface	Cluster 2/5 Location Distributed fashion		Automatic weather station (AWS) Snow, Radiation, Wind, Temp., Humidity etc.	Cluster 2/3 Location Off glacier, bed rock
	FODAR Photogrammetry Ultrafine topographic changes at a large scale	Cluster 2/3 Location Permafrost sites			



Improved
science and
policy links
and
cooperation

Adaptation to
climate
change
in glacier-
dependent
areas

Public and policy
interest in
glaciers

CROMO-ADAPT
Cryospheric Observation and Modelling for improved Adaptation in Central Asia



wgms



UNESCO





SAPPHIRE Central Asia

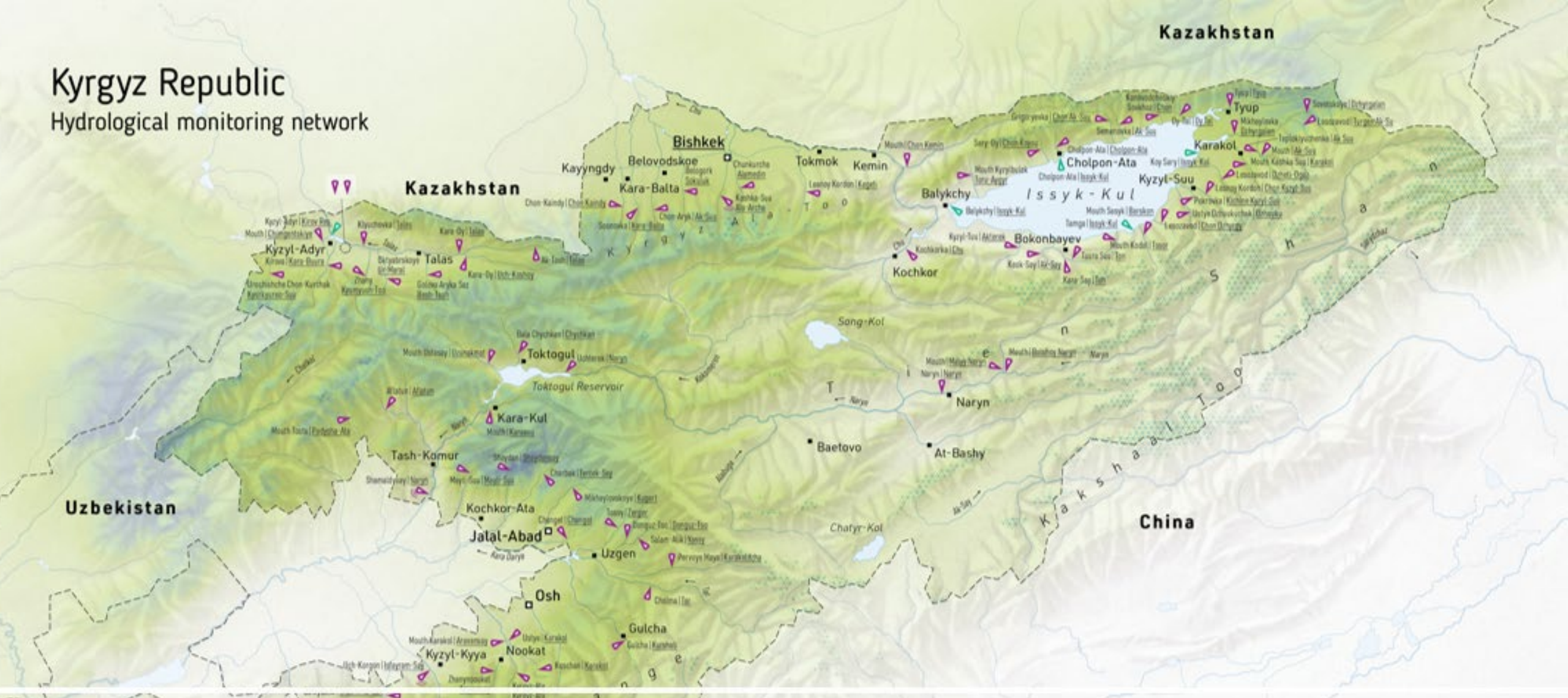
Smart & **P**recise **P**rognostic **H**ydrology for **I**nnovative
Risk Management and **R**esource Use **E**fficiency
in **C**entral **A**sia

- Tobias Siegfried, hydrosolutions GmbH



Kyrgyz Republic

Hydrological monitoring network



A Growing Monitoring Network



- Initially launched in 2014 (Basel conference); one of 3 regional BP projects
- Phase 1 (2017-2022)
- Phase 2 (2023-2028, in preparation)
- Focus:
 - Hydro-Diplomacy: HL dialogue on regional water cooperation among Central Asia states > towards operationalization of basin-management agreements.
 - Technical dialogue based on innovative transboundary water projects
 - Education and Youth: Capacity building of the next generation of water professionals in Central Asia.

Реки Центральной Азии Ледники и источники воды



Ледниковый источник / источник
Город
Крупный город
Озеро
Водоохранилища

Реки с преимущественно снеговым и дождевым питанием
Реки, питаемые преимущественно таянием ледников и снега
Каналы
Дельты рек

••••• Коллекторы

Воздействие изменений климата на ледники и водные ресурсы

Угроза наводнения вследствие прорыва ледниковых озер, нестабильности горных пород и склонов
Угроза дефицита воды

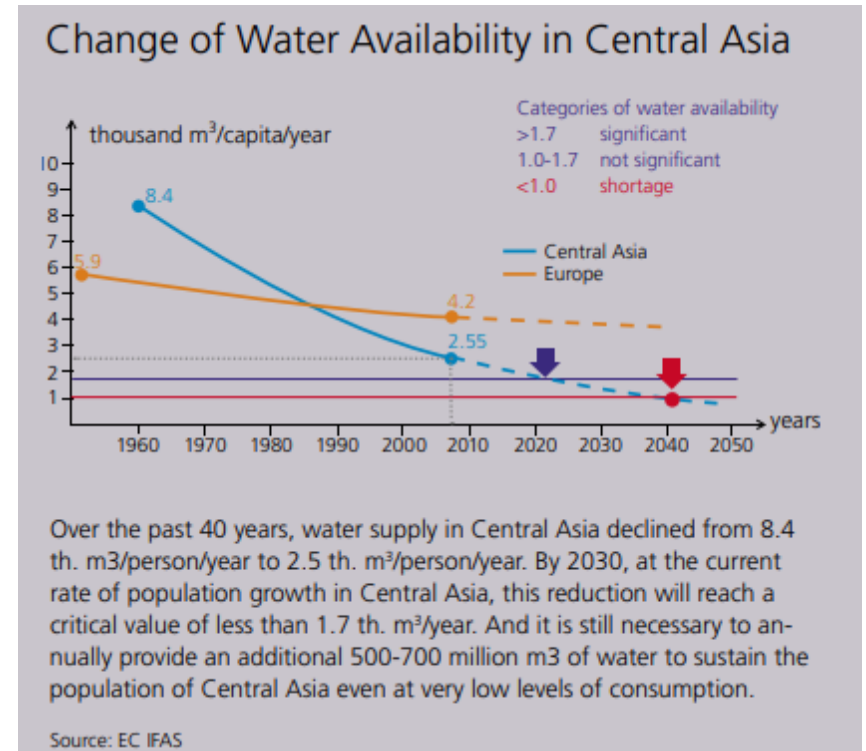
Основные речные системы

Амударья
Сырдарья
Тарим
Или
Чу
Талас



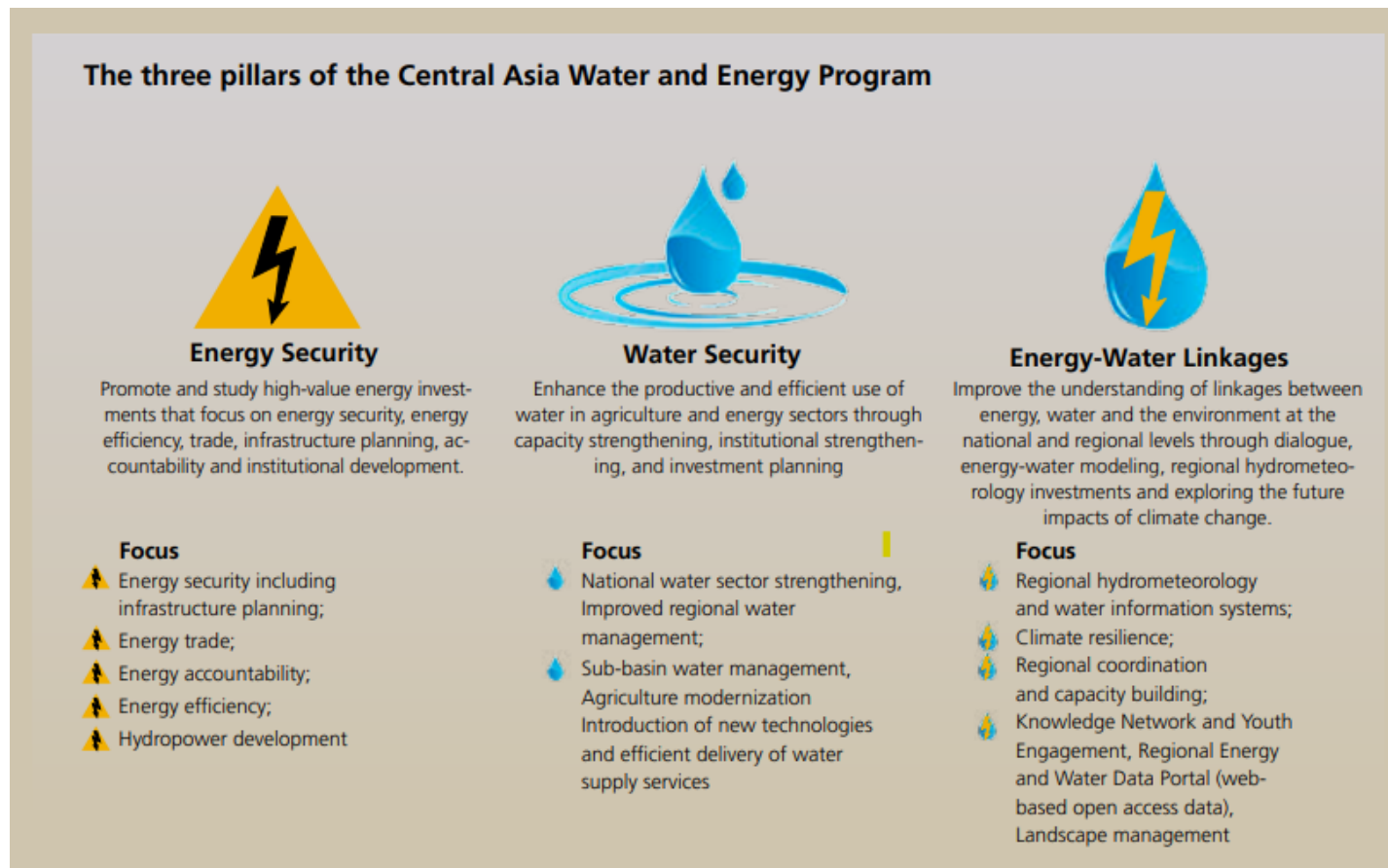
Governance of transboundary aquifers

- Planned 2023 – 2035; ca 25 M CHF
- Several intervention regions, including Central Asia
- Partnership with UNESCO-IHP
- Follow up of the [GGRETA](#) project (active i.a. in the Pre-Tashkent Aquifer)



CAWEP – Central Asia Water and Energy Program

- strengthens the **enabling environment to promote energy and water security** at regional level and in the beneficiary countries by leveraging the benefits of enhanced cooperation.
- promotes **water and energy security** working at the national scale to strengthen national institutional capacities and sector performance
- Keeps **regional cooperation on the dialogue agenda** to create an enabling environment for achieving national and regional energy and water security.



<https://www.worldbank.org/en/region/eca/brief/cawep>





Thank you!

For more info:

<https://www.eda.admin.ch/deza/en/home/countries/central-asia.html>

www.eda.admin.ch/tajikistan

The screenshot shows the 'International cooperation' section of the EDA website. It features a navigation menu with 'SDC', 'Themes', 'Projects', 'Countries', 'Partnerships', 'Impact', and 'Strategy 21-24'. The main content area is titled 'Central Asia (Kyrgyzstan, Tajikistan, Uzbekistan)' and includes a 'Print page' button. A sidebar on the left lists various countries under 'Development and Cooperation'. The main text states: 'Switzerland is involved in water management, good governance and sustainable economic development programmes in the three Central Asian states of Kyrgyzstan, Tajikistan and Uzbekistan. It encourages measures to mitigate the impacts of climate change and supports regional cooperation.' Below the text is a map of Central Asia showing the borders of Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan, Iran, Afghanistan, and Pakistan, with major cities like Tashkent, Bishkek, Dushanbe, and Samarkand marked.

The screenshot shows the 'Switzerland and Tajikistan' page on the EDA website. It features a search bar and a navigation menu with categories like 'News', 'Representations', 'Travel advice', 'Living & working in Tajikistan', 'Services', 'Visa & entry to Switzerland', 'Switzerland and Tajikistan', and 'International cooperation'. The main content area includes a news article titled 'Inaugurations of a 110kV Substation in Khorog, Tajikistan' with a photo of Salome Steib, Director of the SCO in Tajikistan, and the President of the Republic of Tajikistan, His Excellency Emomali Rahmon. Below the article are three featured sections: 'Small Grants', 'Inaugurations of a 110kV Substation in Khorog, Tajikistan', and 'State Free Legal Aid Has Become More Accessible to the Tajik People'. A sidebar on the right contains 'News' and 'Agenda' sections. At the bottom, there are three service boxes: 'Services and visa', 'Online desk FDFA', and 'International cooperation'.