

CWANA F2R Initiative: From Fragility to Resilience in Central and West Asia and North Africa

Consultative Workshop

**The Role of Climate Information Data and Services in
Climate Risk Management in Uzbekistan
and event dedicated to World Soil Day and World
Mountain Day**



**F2R-CWANA Consultative Workshop Program
in Uzbekistan
December 05, 2022
Samarkand, Uzbekistan**



Participants of the Consultative Workshop:

- Representatives of the Committee of the Senate of the Oliy Majlis of the Republic of Uzbekistan on the development of the Aral Sea region and ecology;
- Representatives of the Ministry of Innovative Development of the Republic of Uzbekistan
- Representatives of the Ministry of Agriculture of the Republic of Uzbekistan
- Representatives of the Ministry of Water Resources of the Republic of Uzbekistan
- Representatives of the State Committee of Geology and Mineral Resources of the Republic of Uzbekistan
- Representatives of the Center for Hydrometeorological Service of the Republic of Uzbekistan (Uzhydromet)
- Representatives of other ministries, departments, state research institutions;
- Activists of the Ecological Movement of Uzbekistan;
- Employees of the Samarkand Regional Center for Agricultural Services
- Employees and representatives of One CGIAR, such as ICARDA, IFPRI, IWMI and others;
- Representatives of the khokimiyat, farmers, textile clusters, higher educational institutions of Samarkand and Samarkand region;
- Media representatives.

The consultative seminar will be held on December 5 at 10:00 in the conference hall of the Alexander Hotel at the address: Mirzo Ulugbek, Samarkand.

Mode: Hybrid (offline and on-line)

Join Zoom Meeting:

<https://us02web.zoom.us/j/83933544493?pwd=cmR0dllwWVliejZRU1VFdWlmNDQ2UT09>

Phone for inquiries: 90-1786548; 90 808 28 95; 71 230-41-54; 71 230-42-19



Uzbekistan Consultative Workshop

F2R-CWANA Initiative



Background

CGIAR's F2R-CWANA Initiative builds resilient agri-food systems in the region, primed to withstand the impact of climate change and generate better livelihoods for rural communities. At its core, this initiative will provide options for climate adaptation and mitigation that respond to, and are effective for, smallholder farmers in CWANA with a view to scaling up and out the best bet solutions. It recognizes the unique biodiversity richness of this center of origin of many species, and it promotes its conservation of soil, ecology and water resources in-situ and ex-situ. It is aware of the complex political interactions between countries in the region, and it bridges borders to deliver and widely deploy technologies.

Anchor Countries

The F2R-CWANA initiative has five planned regional anchor countries – Egypt, Lebanon, Morocco, Uzbekistan, Sudan, representing diverse needs and social contexts. Turkey and Syria, both member countries of the CGIAR, will participate in this initiative with their own funding.

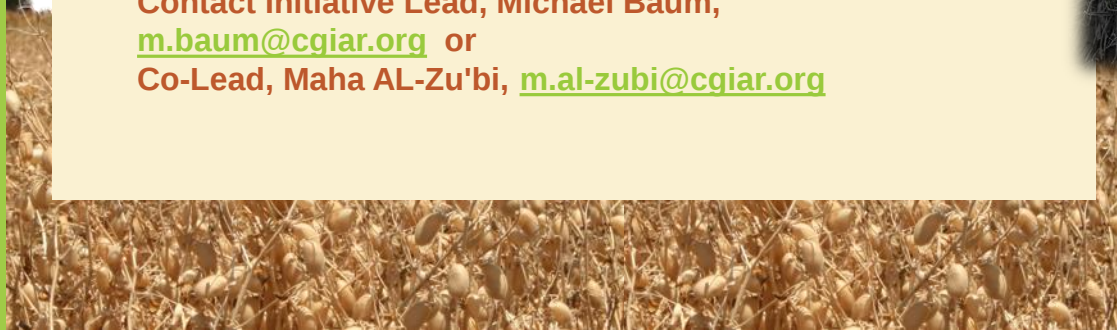
One CGIAR

All CGIAR Research Centers are engaged in a reform process ("One CGIAR") to achieve better impact through more strategically integrated research, unified governance, an integrated structure, and new research modalities. The OneCGIAR transformation is supported by CGIAR donors who have committed to increased funding as a result of these reforms.

The reform provides an opportunity for a fresh strategy to shape a stronger, more relevant science agenda for today's dynamic world. It integrates CGIAR's capabilities, knowledge, assets, people, and global presence for a new era of interconnected and partnership-driven research toward achieving the Sustainable Development Goals (SDGs), and it will operate as a cohesive organization with a single mission, seamlessly leveraging all of our capabilities and assets to deliver real benefits to people and our planet.

Through integrated systems research, CGIAR and country partners are striving for impact to create sustainable and resilient food, land, and water systems, and meet SDG targets through strategically designed global initiatives.

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UZBEKISTAN BACKGROUND

The CWANA region covers a vast swathe of land across Central Asia, West Asia, and North Africa and contains a vast diversity of cultures and agroecological systems. What unifies this area is a relative semi-arid and aridness that will become more extreme with ongoing climate change. The region is expected to experience an increase in the severity and frequency of hot temperatures, agricultural and ecological droughts, precipitation droughts, floods, climate variability, and climate change compound events with significant consequences for society and the environment.

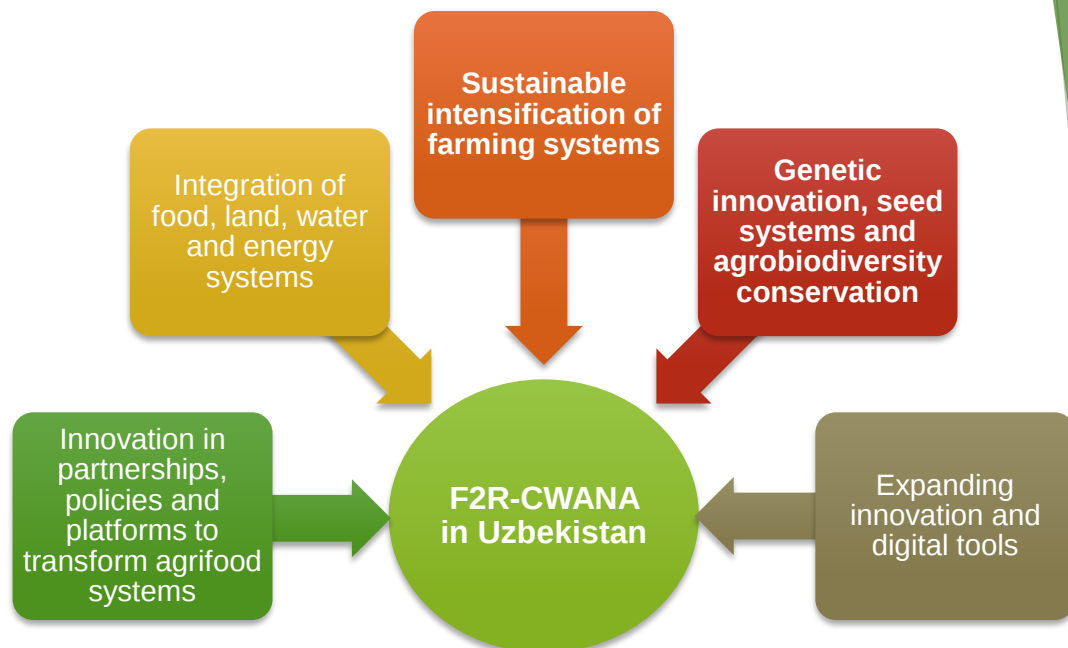
Despite the inherent constraints in the CWANA region of a lack of productive agricultural land and severe water scarcity and unsustainable surface and groundwater abstraction (for use in agriculture), the predominantly rainfed agri-food systems (70%) are frequently the largest employers of the populace and of women, and significantly contribute to national GDP and local food security in a region heavily dependent upon food imports.

Yet the CWANA regional agri-food systems are highly vulnerable to overuse of the limited natural resources, the biophysical effects of present and future climate change, and their interplay with societal pressures, e.g., gender inequalities, youth unemployment, demographic shifts, a predominance of small, non-specialized smallholdings, institutional and economic pressures. Many of the countries in CWANA are fragile and conflict affected.

Uzbekistan is one of the most vulnerable countries in terms of climate change. Without additional measures resource conservation, the country may face shortage of water resources, increased desertification and land degradation, increase in the number of droughts and other dangerous phenomena, which will cause instability in agricultural production and pose a threat to the country's food security (Uzbekistan NDC Report, 2021).

Despite these challenges, the momentum is high for building resilient agri-food systems in Uzbekistan. Currently, climate change mitigation and adaptation measures are reflected in almost all sectoral strategies and the country's development programs, in particular: Development Strategy (2022-2026), Innovation Development Strategy (2019-2021), and Environmental Protection Concept 2030. Further, the Agriculture Development Strategy (2020-2030), Concept of Water Sector Development for 2020-2030 and National Strategy on Water Management and Development of Irrigation Sector (2021-2023) acknowledge the need for transformative adaptation interventions to reduce risk to vulnerable groups. Both aim to improve climate information, adopt a strategic governance plan, and enhance resilience of the agriculture sector, improve water use efficiency and increase access to climate finance. The F2R-CWANA Initiative directly contributes to these goals.





F2R-CACA Research Areas in Uzbekistan

F2R-CWANA in Uzbekistan

F2R-CWANA together with partners will test and scale up the following innovations to address the challenges of sustainable agriculture in Uzbekistan:

- Smart tools at different levels, from the farm to the pool, to improve the efficiency of water management
- CGIAR Open Innovation Accelerator and Program
- Rural Investment Modeling and Policy Analysis Toolkit
- A set of natural solutions for people and the planet
- Promoting the conservation of agrobiodiversity in the drylands of CWANA in the field
- Collaborative Product Profile Views
- Sustainable food and feed crops adapted to the MENA region
- Scale-appropriate mechanization for CWANA countries
- Irrigation advisory system based on weather station data

The planned innovations will help Uzbekistan's stakeholders become more resilient in dealing with the negative impacts of climate change.

The purpose of the workshop

This workshop is based on the WP5 work package of the CGIAR F2R-CWANA Initiative.

The workshop sets itself the following task, to answer the question: what kind of climate information data and services do participants in the value chain in food production need to manage climate risks in the CWANA region, in particular in Uzbekistan. The consultative seminar within the framework of WP5 coincides with World Soil Day and World Mountain Day, which is celebrated jointly with the Committee of the Senate of the Parliament of the Republic of Uzbekistan on the development of the Aral Sea region.

The work package (WP5) intends to increase the agriculture resilience of anchor countries to climate change by providing accessible and up-to-date climate information through digital tools. The accumulated knowledge and available scientific data from the Initiative developed by the CGIAR will be integrated into local platforms and systems of national centers for agricultural research.



F2R-CWANA Consultative Workshop in Uzbekistan

December 05, 2022, 9:30-17:00 Tashkent time (+5 GMT)

Time (according to GMT)	Events	Lead / Facilitator
9:30 – 10:00	Registration	
10:00 – 10:40	Opening speech	• Mr. Oytur Anarbekov, Country Manager, IWMI Representative Office for Central Asia
	Greeting speech	• Mr. Boriy Alikhanov, Senator, Chairman of the Committee of the Senate of the Oliy Majlis of the Republic of Uzbekistan on the development of the Aral Sea region and ecology • Dr. Michael Baum (Lead) / Maha Al-Zubi (Co-Lead) of the F2R-CAWA Initiative (via Zoom) • Representative of the Khokimiyat (Provincial Authority) of Samarkand Region
Session 1: Climate Information Data and Services for Climate Risk Management		
<i>Moderators: Ms. Khamdamova Gulnoza (UzHydromet) and Dr. Zafar Gafurov, IWMI-CA</i>		
10:40 – 11:00	Presentation of the online dashboard for climate risk assessment: drought, heat and floods	Dr. Zafar Gafurov and Mr. Sarvarbek Eltazarov, IWMI - CA
11:00 – 11:15	Theory for determining the intensity of climate change	Mr. Boriy Alikhanov, Senator, Chairman of the Committee of the Senate of the Oliy Majlis of the Republic of Uzbekistan on the development of the Aral Sea region and ecology
	Questions and answers	
11:15 – 11:30	Coffee break	
11:30 – 12:00	Brainstorming session	
	What are the main issues and challenges related to climate information data and services do agricultural food value chain actors confront?	
12:00 – 12:15	Presentation of each group (5 minutes)	
Section 2: State policy on climate risk management and its implementation in the Samarkand region		
<i>Moderator: Mr. Sergey Samoilov, Chief of Staff of the Ecological Movement of Uzbekistan</i>		
12:15 – 13:00	• Representative of the Ministry of Agriculture • Representative of the Ministry of Water Resources • Representative of the Center for Hydrometeorological Service • Representative of the State Committee of Geology and Mineral Resources	
13:00 – 14:00	Lunch	

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Panel 3: Scaling innovation and digital tools for a climate-resilient agricultural value chain		
<i>Moderators: Dr. Akmal Akramkhanov (ICARDA-CAC) together with AKIS of Samarkand Region</i>		
14:00 – 14:15	Programs of the Ministry of Innovative Development on scaling up innovations and digital tools, especially in agriculture	<i>Representative of the Ministry of Innovative Development of the Republic of Uzbekistan</i>
14:15 – 14:30	IWMI Experience in Launching Incubator/Accelerator Scaling Program (MENA Water-Energy-Food Center)	<i>Ms. Sarah Dehel, IWMI Egypt Office</i>
14:30 – 14:45	Presentation on the topic: "The relevance of the water harvesting in the context of climate change"	<i>Dr. Mira Haddad, ICARDA Office Jordan</i>
Group work		
14:45 – 15:15	Brainstorm: Best ways to scale innovation and digital solutions	
15:15 - 15:30	Presentation of the results of brainstorming by groups	
Session 4: Dedicated to World Soil Day and World Mountain Day		
<i>Moderator: Ms. Firuza Ganieva, Head of the Department for the development of relations with foreign and international environmental organizations, Ecological Movement of Uzbekistan</i>		
15:30 – 15:45	The influence of climatic phenomena on the conservation of biodiversity in the foothills and mountains	<i>Mr. Alexander Grigoryan, Espert, Ecological Movement of the Republic of Uzbekistan</i>
15:45 – 16:00	Soils of Samarkand region, main problems and their solution	<i>Mr. Shodi Kholikulov, Head of the Department of Soil Science and Agrotechnologies, Samarkand State University. Sh. Rashidova</i>
16:00 – 16:30	Summing up and closing	<i>Mr. Boriy Alikhanov, Senator, Chairman of the Committee of the Senate of the Oliy Majlis of the Republic of Uzbekistan on the development of the Aral Sea region and ecology</i> <i>Mr. Oytur Anarbekov, Country Manager, IWMI Representative Office for Central Asia</i>
16:30- 17:00	Coffee break	
17:30 – 18:30	Excursion to the Zoological Museum of Samarkand State University	

Key Contacts

Question	The contact person	Email
General Inquiries F2R-CWANA	Michael Baum Maha Al Zubi	m.baum@cgiar.org m.al-zu'bi@cgiar.org
Contacts of F2R-CACA members		
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WP3: Sustainable intensification of farming systems	Mangi Lal JAT	m.jat@cgiar.org
WP4: Integrated Food, Land, Water and Energy Systems	Maha Al Zubi	m.al-zubi@cgiar.org
WP5: Scaling Innovation and Digital Tools	Oytura Anarbekov	o.anarbekov@cgiar.org

Location

Alexander Hotel.
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Samarkand, Uzbekistan

