MINUTES OF THE VIRTUAL MEETING OF THE WORKING GROUP ON IRRIGATION AND DRAINAGE IN THE STATES UNDER SOCIO-ECONOMIC TRANSFORMATION (WG-IDSST)

26 May 2022, 14:30-16:30 hours

Strategy Theme: Basin

Presented by the Chairman

Year of Establishment: 2018 **Completion of the Mandate: 2024**

Mandate: (a) to develop and strengthen the network among the countries of transition on the basis of establishment of monitoring and evaluation of common problems in the States and bring it to the attention of decision-makers in states; (b) to create database and exchange of information about changing situation in Irrigation and Drainage in these States and to attract global and national attention to existing trends affecting global and national food security and wellbeing of rural population; especially related to climate change and ability to adapt to it; (c) to promote implementation of IWRM and broad-basing of stakeholders by popularizing the case studies and best practices explaining the real content of IWRM principles; (d) to monitor the ecological situation in the transition states, including problems of closed basin (Aral Sea, Lake Chad, Lake Victoria, Caspian Sea), rivers deltas, salinization and water logging, land desertification etc.; (e) to collect appropriate advance irrigation and drainage technology for use in transition states and its dissemination through capacity building; to promote involvement young specialists as providers of these innovations; pay specific attention to use of RS technology in I&D; (f) to promote farmer's and WUAs training to create awareness about agricultural water management; (g) to increase the efficiency and functioning of the WG, intensify collaboration with other countries to share best practices and experience for development of irrigation and drainage in the States under socio-economic transformation.

Members present: (1) Dr. Shukhrat Mukhamedjanov, Vice Chair (Uzbekistan); (2) Mr. Momir Vranes (Australia); (3) Dr. (Ms.) Ya-Wen Chueh (Chinese Taipei Committee); (4) VPH Dr. Mohamed Wahba (Egypt); (5) Dr. Katsuyuki Shimizu (Japan); (6) Dr. Andrii Shatkovskyi (Ukraine); (7) VPH Mrs. Irina Bondarik represented Dr. Alexander Solovyev (Russia), (8) Mr. Rajni Kant Agrawal, Direct Member, WAPCOS (India); (9) ICID Secretary General represented by Er. B.A Chivate, Director (Technical).

Office Bearer: Dr. Ragab Ragab, President, ICID

Observer: Mr. C.P. Arora (India)

Website: http://icid-ciid.org/inner_page/114

WG-IDSST Minutes Item 1: Action taken report by Chair

1. Vice Chairman WG-IDSST Dr. Shukhrat Mukhamedjanov, on behalf of WG Chairman WG-IDSST Peter Kovalenko, presented the agenda for the online meeting, prepared in accordance with the minutes of the issues discussed at the 3rd meeting of the Working Group on Irrigation and Drainage in the States Under Socio-Economic Transformation (WG-IDSST) held on 28 November 2021 in Marrakech, Morocco.

WG-IDSST Minutes Item 2: Case studies and best practices of IWRM

2. Dr. Mohamed Wahba from Egypt presented a presentation on "The Role of Agricultural Drainage and the Challenges it Faces in Africa". In his presentation, Dr. Mohamed Wahba raised questions about the importance of drainage in agricultural development in Africa and Egypt. In particular, the presentation noted that most of the irrigated land in the world leads to salinization and the main solution to this problem is the use of drainage. After the report was completed, questions were asked and comments were made. In particular, ICID President Ragab Ragab noted the importance of drainage in irrigated agriculture but in the diversion of water during floods, which lead to the spread of malaria from mosquitoes.

3. Dr. Shukhrat Mukhamedjanov from Uzbekistan presented the presentation titled "Integrated Water Resources Management in Central Asia: Challenges, Experiences and Achievements". In his speech, Dr. Sh. Mukhamedjanov presented the results of the project "Integrated Water Resources Management in the Ferghana Valley". On the irrigated lands of the three states of Central Asia - Kyrgyzstan, Uzbekistan and Tajikistan, from 2002 to 2012, work

was carried out to introduce the principles of integrated water resources management. The presentation noted the importance of managing water resources according to the hydrographic principle. After the implementation of the project, the countries moved from administrative management to management of water resources along hydrographic boundaries. After the presentation, questions were asked and comments were made. In particular, ICID President Ragab Ragab noted the importance of IWRM in irrigated agriculture and its importance in efficient and economical use. Dr. Ragap Ragap also expressed the opinion that one of the important tools for efficient water use is the calculation of crop needs based on weather station data.

WG-IDSST Minutes Item 3: Develop and strengthen the network among the transition states

4. Dr. Sh. Mukhamedjanov provided details on the opening of a dedicated WG-IDSST window in CAWater-Info and provided information on how each WG member can access the CAWater-Info website. On 25 May 2022 Vice Chair sent everyone the address of the website. Dr. Sh. Mukhamedjanov informed that on the Publications page, one can upload any materials that they would like to share with other countries. On the WG-IDSST page, the group can upload all the materials and events that have in the working group. Members may like to share their views and comments with Vice Chair.

5. All materials from members of the working group can be sent to - shuhrat.shakir@mail.ru and to the address of the Secretary of the working group Shavkat Kenjabaev - kenjabaev@yahoo.com Then the material will be placed on the website through the administrator. The members agreed to accept the website CAWater-info for the exchange of information between countries.

WG-IDSST Minutes Item 4: Develop and strengthen the network among the transition states

6. The working group discussed the issue of developing and strengthening communication between the members of the working group and how, on the basis of which materials, through existing websites, it will be possible to work on the exchange of information, technologies, country experiences, and discussion of opinions. The Working Group considered strengthening communication among Working Group members via the CAWater-Info website and through correspondence between Working Group members with Working Group leadership, the Chair, Co-Chair, and Secretary of WG-IDSST.

WG-IDSST Minutes Item 5: Database of I&D in the states in transition

7. The meeting participants agreed that the members of the WG from each country will collect experience, technologies, assess the situation of irrigation and drainage in their countries, and transfer this information to the CAWATER-Info website for the exchange of experience between countries. The information received will be provided to all interested countries in accordance with their interests.

8. Dr. Shukhrat Mukhamedjanov posted materials on irrigation and drainage in Central Asia on the CAWATER website and invited participants to share their country's experiences in the field of irrigation and drainage. He also said that each country's experience, both in developing irrigation and drainage and in solving the problems faced by countries, is different. Most of them are common problems, however, not all problems are solved equally successfully. Each country had its own development path, and each country had its own experience of overcoming problems.

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Annex 1 [Appendix XVI, Item 1]

MEMBERS AND THEIR ATTENDANCE AT 2019 and 2020 MEETINGS

No.	Members	Member from (Year)	2019		2020		Remarks
			Self	Contributed by mail	Self	Contributed by mail	
1.	VPH Prof. Peter Kovalenko, Chairman (Ukraine)	2018	#[1]	•		•	
2.	Dr. Shukhrat Mukhamedjanov, Vice Chairman - 2021 (Uzbekistan)	2018	•	•	•		
3.	Dr. Shavkat Makhmudjanovich Kenjabaev, Secretary (Uzbekistan)	2020			•		
4.	VPH Dr. Mohamed Wahba (Egypt)	2018		•	•		
5.	Mr. Rajni Kant Agrawal, Direct Member, WAPCOS (India)	2021					
6.	Dr. Katsuyuki Shimizu (Japan)	2018	•	•	•		
7.	Engr. Peter Yakube Manjuk (Nigeria)	2018	•				
8.	Mr. Rafaquat Ali (Pakistan)	2018					
9.	Dr. Alexander Solovyev (Russia)	2018	#	•			
10.	Eng. W.B. Palugaswewa (Sri Lanka)	2018					
11.	Dr. Hassan Abu Bashar (Sudan)	2018					
12.	Mr. Baratov Rustam Okilovich (Tajikistan)	2018					
13.	Dr. Andrii Shatkovskyi (Ukraine)	2018			#		
14.	Mr. Momir Vranes (Australia)	2019	•	•	•		
15.	Dr. (Ms.) Ya-Wen Chueh (Chinese Taipei Committee)	2019	•	•			
16.	Secretary General ICID		#		#		
	Permanent Observers						
(i)	IWRA (Prof. Daene C. McKinney)						
(ii)	FAO Representative						
(iii)	World Bank representative						

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[1] *Through representation*

Annex 2 [Appendix XVI, Item 3]

ROAD MAP TO ICID VISION 2030 - ACTIVITIES OF WORKBODIES

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022	Milestone for Year 2023	Responsibility
Goal A: Enable higher crop productivity with less water and energy								
	The Development of drip irrigation systems and technologies in countries. Irrigation and water use efficiency in small-scale farms	Widespread adoption of water- saving technologies in countries Countries experience on methods and approaches for effective irrigation on small farms		1. Overview of water-saving technologies in countries. 2. Exchange of experience 1. Overview of experience on methods and approaches for effective irrigation on small farms in countries. 2. Exchange of experience	Methods and tools to reduce unproductive losses in irrigation. Assessment of water availability in Central Asia based on WUEMOCA Methods and approaches for effective irrigation on small farms			
Goal B: Be a catalyst for change in policies and practices								
	Publication	Technical paper	A review of the experience of leading countries in the effective management of water resources	Overview of scientific advances in countries to reduce unproductive losses in irrigation.				
Goal C: Facilitate exchange of information, knowledge and technology								
C1. Strategy: Providing Knowledge-sharing Platform for AWM Professionals	3.1 Develop and strengthen the network	Establishment of communication between countries on the rapid exchange of information Web- Portal organization.		Exchange of experience between countries on the effective management of water resources	Exchange of experience between countries on methods and tools to reduce unproductive losses in irrigation.			
	3.2 Database on irrigation and drainage in the countries of transition	Database on irrigation and drainage in the countries of transition						

Goals/ Strategies	Activities	Outcomes/ Outputs	Milestone for Year 2019	Milestone for Year 2020	Milestone for Year 2021	Milestone for Year 2022	Milestone for Year 2023	Responsibility
Goal E: Encourage research and support development of tools to extend innovation into field practices								
	5.1 Interaction between countries in studies of remote monitoring of water resources and water use	Introduction of remote sensing and remote control of water use and water resources management		Research and exchange of experience between countries in the widespread introduction of remote sensing in monitoring water metering at water bodies	Research and exchange of experience between countries in the widespread introduction of remote sensing in monitoring irrigated fields and crops			
Goal F: Facilitate capacity development								
F3. Strategy: Technical Training of Young Professionals from Member Countries	Organize training Workshop	Training Workshop	Organize Training Workshop		Organize Training Workshop			

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Annex 3 [Appendix XVI, Item 4]

WG-IDSST WORK PLAN

Activity	Outcomes/ Outputs	2020	2021	2022
(a) to develop and strengthen the network among the countries of transition on the basis of establishment of monitoring and evaluation of common problems in the States and bring it to the attention of decision-makers in states;	Created Web-Portal for continuous communication between countries	1. Based on the Web Sit CAWATER.Info http://cawater-info.net/water_world/index.htm create an ICID window, WG IDSST. 2. Exchange of information on monitoring and evaluation of common problems.	Web Portal Development	Web Portal Development
(b) to create database and exchange of information about changing situation in Irrigation and Drainage in these States and to attract global and national attention to existing trends affecting global and national food security and wellbeing of rural population; especially related to climate change and ability to adapt to it;	A database was created based on the CAWATER.Info Portal http://cawater-info.net/water_world/inde x.htm	1. Exchange of experience and information between countries on changing situations in irrigation and drainage in countries. 2. Information in countries in irrigation and drainage due to climate change.	1. Exchange of experience and information between countries on changing situations in irrigation and drainage in countries. 2. Information in countries on adaptation of irrigation and drainage and agriculture to climate change.	1. Exchange of experience and information between countries on changing situations in irrigation and drainage in countries.
(c) to promote implementation of IWRM and broad-basing of stakeholders by popularizing the case studies and best practices explaining the real content of IWRM principles;	Publication	Widespread adoption of IWRM principles in countries	Overview of countries' experiences in implementing IWRM	Obstacles in countries in implementing IWRM
(d) to monitor the ecological situation in the transition states, including problems of closed basin (Aral Sea, Lake Chad, Lake Victoria, Caspian Sea), rivers deltas, salinization and water logging, land desertification etc.;	Overview of environmental monitoring results in countries, including closed basins problems	Collection of monitoring information and facilitate in their implementation	2. Exchange of experience	2. Exchange of experience and decision
(e) to collect appropriate advance irrigation and drainage technology for use in transition states and its dissemination through capacity building; to promote involvement young specialists as providers of these innovations; pay specific attention to use of RS technology in I&D;	Countries have access to information from other countries through the Web-portal on advanced technologies in irrigation and drainage. Young professionals trained to spread innovation	Overview of advanced water-saving technologies and remote sensing tools in countries	2. Exchange of experience	Overview of scientific advances in countries to reduce unproductive losses in irrigation.

Activity	Outcomes/ Outputs	2020	2021	2022
(f) to promote farmer's and WUAs training to create awareness about agricultural water management;	Training materials and modules prepared for farmers and WUAs in countries	A review of existing methods, approaches, technologies that allow effective management of irrigation water at the level of WUA farms.	2. Exchange of experience	Preparation of training modules from each country for training farmers and WUAs on advanced water use technologies
(g) to increase the efficiency and functioning of the WG, intensify collaboration with other countries to share best practices and experience for development of irrigation and drainage in the States under socio-economic transformation.	Develop and strengthen the network	Establishment of communication between countries on the rapid exchange of information Web-Portal organization.	Exchange of experience between countries on the effective management of water resources	Exchange of experience between countries on methods and tools to reduce unproductive losses in irrigation.

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