



Proposal for International Virtual Workshop on Water, Energy, Food Nexus *Riyadh, Kingdom of Saudi Arabia* *31 August 2020*



Facilitating International Collaboration on the Water, Energy, Food Nexus

I. Background

Agricultural Chief Scientists of G20 members during their ninth Meeting of Agricultural Chief Scientists (MACS2020) chaired by the Kingdom of Saudi Arabia in 2020 included the following paragraphs in the Communiqué regarding potential nexus solutions:

12. We are deeply aware of the global demands on water and energy to meet food production needs, and how these are being influenced by climate change and changing consumption patterns. A better understanding of the interdependence of Water, Energy and Food (WEF Nexus) is critical for developing policies and innovation that enable a sustainable food system at a global scale, enable resource use efficiency, protect biodiversity and ecosystem services, improve livelihood, empower people, ensure food security and nutrition and optimize sustainable economic benefits. We encourage new collaborative research efforts between interested G20 members and international organizations to shift the idea of the WEF Nexus from *thinking* to *acting*.
13. We support the proposal from the Kingdom of Saudi Arabia to organize an International Workshop later in the year on the WEF Nexus. We encourage G20 members and invitees to exchange views and good practices for efficient utilization of water and energy that contribute to global food security and nutrition and other SDGs.

During the ninth G20-MACS2020, most of the participating G20 members expressed opinions and acknowledged the importance of WEF Nexus solutions for resource use efficiency, improved livelihood, improved health, and economic benefits. They recognized that WEF Nexus has enormous potential for increasing food

production by benefitting from recent, new innovations and advanced technologies. The participants suggested to expand the topic by including land and environment factors for the International Workshop proposed by the Kingdom of Saudi Arabia. They agreed to share knowledge about good practices of nexus solutions in the form of case studies.

II. Objectives

The purpose of the International Virtual Workshop is to:

- Share valuable knowledge through international collaboration with relevant international organizations and interested G20 members in the balancing of water, energy, and land use for food production in challenging environmental conditions
- Enhance collaboration towards capacity development for the implementation of WEF Nexus solutions
- Exchange views and good practices for effective and efficient utilization of global resources at local, regional, and international levels
- Support the development of evidence-based policies by providing tools and measures to the policy makers for responsible use of water and energy resources for achieving global food security
- Continue to build momentum and awareness of WEF Nexus challenges and potential solutions

III. Target Areas for the Case Studies to be presented in the International Virtual Workshop on WEF Nexus

The possible topics selected for the Case Studies are as follow

1. Nature-based solutions to protect ecosystems and biodiversity services for sustainable food system at a global scale
2. Science-based solutions to enhance resource use efficiency, empower people and improve livelihood

3. Innovative agricultural and food production for efficient water and energy optimization
4. Changing consumption pattern and consumer behavior to improve global food security and nutrition
5. Innovative tools and system approaches to reduce Food Loss & Waste, and its impact on water and energy use
6. Bridging the gap of Public Policy Development through private sector WEF Nexus innovations



IV. Call for G20 members and Invitees participation in the Workshop

All the honorable G20 members and Invitees are invited to actively participate in this International Workshop to be held VIRTUALLY in Riyadh due to COVID-19 pandemic on 31st of August, 2020, in order to draw conclusions for future collaboration to develop Multidisciplinary Integrated Nexus Approach for the policy makers.

V. Case Studies

We are formally inviting G20 members, guest countries, and international organizations to voluntarily prepare case studies about the good practices and

activities of above mentioned topics. One might prepare and present more than one case studies.

VI. Participants of the Workshop

The participants of the International Virtual Workshop might be the specialists from research institutes, government officials, academia, international and regional organizations, nominated by the G20 members, guest countries and invited organizations.

VII. Way forward for the participants

- We are sharing the Proposal for **International Virtual Workshop** among G20 members and Invitees, which is going to be held on 31st August 2020, Riyadh, Kingdom of Saudi Arabia
- All the honorable G20 members and invitees are welcome to join this Virtual Workshop.
- Interested G20 members and invitees are kindly requested to voluntarily select one of the topic(s) and submit their perspective in the form of Case Study. One participant may join more than one topic.
- We encourage all to attend this Virtual event to actively contribute by exchanging experiences and providing their opinion during discussion session of this Virtual Workshop.
- All G20 members and Invitees are kindly requested to **NOMINATE** their candidate attendees and participants for this Virtual Workshop before **30th of July 2020**.
- The participants interested to give presentation are requested to submit their presentation (summary report and/or slides) for this Virtual Workshop before **15th of August 2020**.

VIII. Deliverables

A final report will be prepared by compiling all the topics along with panel discussion for distribution among participants during tenth G20-MACS2021.

IX. Action plan

Submission date	Tasks	Deadline
09/06/2020	First email to troika for the Proposal on International Virtual Workshop on WEF Nexus for their feedback	12/06/2020
14/06/2020	Sharing Proposal on International Virtual Workshop with G20 members and Invitees during ninth G20-MACS-2020 for Topic(s) selection	06/07/2020
16/06/2020	Nomination of the attendees and participants by the G20 members and Invitees for this event	30/07/2020
30/06/2020	Voluntarily submission of materials (summary report and/or slides) compiled in the form of case studies on their agreed topic	15/08/2020
24/08/2020	G20SS to send Official Invitation and Agenda to all the participants through "Administrative Circular"	-
31/08/2020	Presentations at the International Virtual Workshop (Riyadh, Kingdom of Saudi Arabia)	-
2021	Final Report submission during tenth G20-MACS2021	-

