



المنظمة الإسلامية للأمن الغذائي
Islamic Organization for Food Security
l'Organisation Islamique pour la Sécurité Alimentaire

Concept Note

2nd IOFS HIGH-LEVEL FORUM ON FOOD SECURITY

*“Climate Resiliency, Bio&Agri-Technology
and Water Management for
Enhanced Food Systems”*

Astana, 6-7 July 2023



BACKGROUND

Food insecurity remains a priority challenge faced by vulnerable world populations that suffer from acute hunger and malnutrition, largely because of the continuous global economic slowdown, conflicts, and the effects of climate change. Such status-quo, day by day, has therefore been worsening as it impacted economic and food supply disruptions that increase the costs of food for vulnerable households, and overall, intensify the vulnerabilities and inadequacies of national, regional, and global food systems.



In response to the global food crisis, the President of the Republic of Kazakhstan, H.E. Mr. Kassym-Jomart Tokayev, set objectives of intensifying the efforts to combat hunger through active cooperation with the Islamic Organization for Food Security (IOFS) at various high level international platforms, including *the 77th Session of the General Assembly of the United Nations in 2022, the 6th Summit of the Conference on Interaction and Confidence-Building Measures in Asia (CICA) in 2022, and at the Abu Dhabi Sustainable Development Summit in 2023.*

The IOFS firmly believes that comprehensive review and systemic maintenance of regional and national food systems is necessary to ensure their sustainability. In particular, the agricultural sector in-large is the greatest opportunity to deliver inclusive economic growth, jobs creation, and healthcare to the world. Due to climate change, today's agriculture necessitates the use of advanced agri-technologies and digitalization tools to apply for harsh and marginal environments. In addition, food value and supply chain disruptions demand governments and, especially the private sector, to reanalyze current agricultural flows and explore new horizons for enhancing trade and investment in agriculture.

HIGH-LEVEL FOOD SECURITY FORUM

After the successful holding of *the 1st IOFS High Level Forum* in June 2022 in Almaty, Republic of Kazakhstan, with participation of representatives of more than 22 Member States and gathered more than 1000 participants, the IOFS, in the framework of its Strategic Vision 2031, finds it fit that the 2nd edition would be an opportunity to reiterate that it bears the responsibility to assist its Member States in ensuring sustainable food systems.

The IOFS intends to hold the *2nd High-Level Forum on Food Security* on 6-7 July 2023 in Astana, Kazakhstan. The Forum aims at creating a unique, dynamic and unprecedented platform, for multistakeholder dialogue with a focus on exchanging advanced agricultural technologies, building climate resilience for food security and nutrition, enhancing science and research in order to adapt agriculture to marginal environments, promoting the concept of smart agriculture, facilitating strategic partnerships for agricultural development and empowering youth for sustainable food systems



OBJECTIVES

The High-Level Food Security Forum is to serve OIC Member States in providing the knowledge-sharing platform and gather relevant stakeholders to accelerate strategic relationships for providing solutions for sustainable food security.

The Forum objectives include:

- To discuss current challenges of food systems and explore creative solutions.
- To present international, regional, and national projects on smart agriculture, the use of agricultural technologies and innovations, and new farming practices to address food insecurity.
- To elaborate on perspectives of introducing smart technologies to agriculture and the role of business for innovative farming practices.
- To enhance the climate-resilient food security and livelihoods of smallholders.
- To explore options for establishing new or reorienting existing food supply and value chains.
- To promote the role of youth, as well as increase their engagement in food security, agriculture and sustainable food systems fields.



FORMAT

Pre-Forum: IOFS YOUTH BIOTECHNOLOGY FORUM



On the eve of the main forum, the IOFS will hold on **6 July 2023** the **Youth Biotechnology Forum** on “Biotechnology for food security and climate resilience” where future food security experts, agripreneurs, farmers, businessmen, IT specialists and students from the agriculture sector will be able to participate in the discussion of the pressing challenges in agriculture with a modern perspective. The interest of young people in this sector of the economy in the long term will help promote rural development and enhance the national and regional food systems.

The Youth Forum’s sub-themes will include i) Green biotechnology; ii) Animal biotechnology; iii) Biotechnology for better soil health; and iv) Biotechnology for better nutrition. In addition, leading government officials and businessmen will provide guidance in drawing a proper roadmap for a career in agriculture.

FORMAT

The IOFS High-Level Forum on Food Security will take place on 7 July 2023 in Astana, Kazakhstan and provide a focus on **three** major segments: **food safety, advanced technologies & innovation and road to COP 28.**

FOOD SAFETY IN OIC GEOGRAPHY

This segment will provide the IOFS “Gene to fork” modality and its promotion through: advanced technologies, traceability system, food waste, and losses approach for saving the life and devoted to International Food Safety Day. Particularly the IOFS Secretariat will make a presentation on the IOFS Insights on the methodology for the exclusion of non-tayib categories within the data on food and agriculture. In 2023 the theme of the International Food Safety Day is “food standards save lives” and session will also examine the use of information technologies, including the development of the methodological base to provide full traceability within the whole supply chain and create a healthy - friendly ecosystem.

ADVANCED TECHNOLOGIES AND INNOVATION

This segment will provide an opportunity to exchange best practices and advanced technologies to address agricultural issues, establish proper storage conditions, and provide a platform for the private sector, farmer foundations and governments with national institutions in enhancing collaborations with the objective of strengthening agricultural innovations. Leading agricultural companies will be able to present best practices in overcoming geographic challenges. In addition, this segment will discuss the topic of the digital transformation of agriculture, which has become a pressing topic during the pandemic. The development and use of software for field monitoring and yield forecasting, digitalization of water supply systems, the introduction of water-saving technologies - all this and more will be discussed at the forum site.

ROAD TO COP28 OIC PERSPECTIVES

The region of South-East and Central Asia, Middle East, North and Sub-Saharan Africa has enormous human, natural and economic potential for leapfrogging and rapid clean economic growth. Meantime, it is also one of the most impacted by climate change, with water scarcity, desertification, loss of biodiversity and largely contributing to emissions and changing climate. United Arab Emirates’ Presidency at COP28 is committed to foster innovative technologies and partnerships that deliver results. The outcomes of this Segment allow decision-makers to develop appropriate policies, strategies and investments, to explore and exploit synergies, and to identify and mitigate trade-offs among the development goals related to water, energy and food security.

EXPECTED PARTICIPANTS



The IOFS will gather high-level government officials from around the world, along with representatives of leading businesses, and all relevant stakeholders to address the challenges of ensuring food security and facilitating the development of strategic partnerships among OIC Member States.

The participants expected to participate in the forum include:

- Government authorities
- Leading Research Institutions and Universities
- Business and Private Sector Entities
- International Organizations
- Civil Society and Youth

DATE AND VENUE

- Date: 6-7 July 2023
- Venue: Astana, Kazakhstan
- Language: English & Russian (Translation to Arabic and French)

AGENDA


SESSION NAME	SESSION TOPICS	STRATEGIC PARTNERS
<i>FIRST DAY, 6 JULY</i> YOUTH BIOTECHNOLOGY FORUM “Biotechnology for food security and climate resilience”		
THEMATIC SESSIONS <i>(FULL DAY)</i>	<ul style="list-style-type: none"> ● Green biotechnology ● Animal biotechnology ● Biotechnology for better soil health ● Biotechnology for better nutrition ● Fair/Exhibition ● Visit to NCB Kazakhstan 	<ul style="list-style-type: none"> ● IOFS Member States ● COMSTECH, ICYF, IsDB ● RUFORUM ● Institutions under Qatar Foundation ● NASEC, NCB Kazakhstan, KazNARU, KazATU ● KAUST
<i>SECOND DAY, 7 JULY</i> IOFS HIGH-LEVEL FORUM ON FOOD SECURITY		
<u>SEGMENT I:</u> FOOD SAFETY IN OIC GEOGRAPHY	<ul style="list-style-type: none"> ● “Gene to fork” modality promotion: advanced technologies, traceability system, food waste, and losses approach for saving lives. ● The Food Safety Index in OIC member countries. The IOFS methodology on the inclusion of non-tayeb food commodities. ● Current scenario of smart food safety. ● Traceability system and advanced opportunities of block-chains to trace from “gene to fork”, reflection to safe life. 	<ul style="list-style-type: none"> ● Government of Qatar ● SESRIC ● ATYAB ● Dar Al Halal Nigeria ● KAZNARU ● PIA Group ● Halal DAMU ● BPS-Statistics Indonesia

AGENDA

<p><u>SEGMENT II:</u> ADVANCED TECHNOLOGIES AND INNOVATION</p>	<ul style="list-style-type: none"> • Exchange of Best Practices in Promoting Smart Technologies for Agriculture and Food Industry • Digital Transformation of Agriculture • Satellite Remote Sensing • Current Trends in Water Management and Capacity Buildings Case Studies • Transboundary plant pest control interventions in OIC geography • Innovation in Agricultural Extension • Vertical Farming 	<ul style="list-style-type: none"> • IsDB, • COMSTECH • COMCEC, • ICESCO • SESRIC • CILSS • ICBA • ICARDA • INWRDAM • ATYAB • CEDARE • Soil Association • KazGaryshSapary • UN Technology Bank • Institutions under Qatar Foundation • UAE Bustanica • NASEC, KazNARU, KazATU • Sumitomo Corporation • Nagashima Holdings • Transleadia Ltd
<p><u>SEGMENT III:</u> ROAD TO COP28 OIC PERSPECTIVES</p>	<ul style="list-style-type: none"> • Climate-related risks • Management for agriculture • Climate change fans spread of Transboundary Pest and threatens Food Security • Adoption of low-carbon transition strategies across food security • Agriculture in Marginal Environments • Water Integrated Plan • Current Trends in Water Management Technologies and Innovation • Organic Agriculture & Green Technologies • Food Banking Systems • Preservation of Agricultural Ecosystem and valorization of natural resources 	<ul style="list-style-type: none"> • UAE Government • COP28 Organization Committee • COMSTECH • ICBA • ICARDA • FAO • HBKU, QEERI • NASEC • FBRN
<p><u>ROUNDTABLE:</u> <u>FORUM</u> <u>OUTCOMES</u></p>	<ul style="list-style-type: none"> • Review of implementation of Almaty Declaration • Panel Discussion • Proposals for projects and actions for further implementation 	<ul style="list-style-type: none"> • Organizers, Partners, Speakers, and all Forum Participants

DETAILS

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