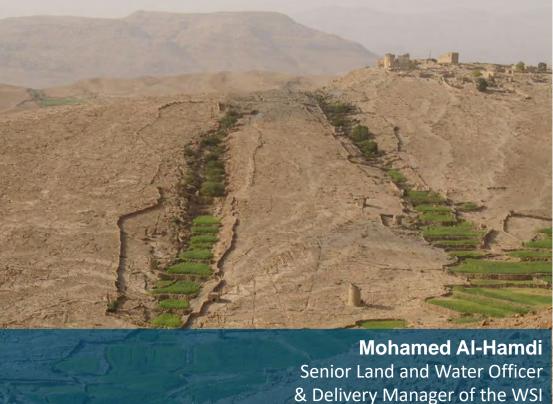


SUSTAINABLE DEVELOPMENT GALS





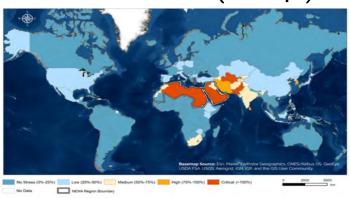


FAO Regional office for the Near East and North Africa

KEY FACTS

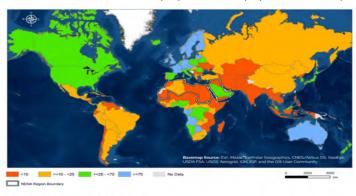


Level of water stress (SDG 6.4.2)



Source: AQUASTAT, 2021 www.fao.org/aguastat/en/

Water use efficiency (US\$/m3) (SDG 6.4.1)



- → Freshwater availability per capita declined in NENA by more than 75% between 1960 and 2018
- → 12 countries in the top 15 highest levels of water stress in the world
- →60% of water resources generated outside the region
- → Most groundwater aquifers are over-exploited
- → Around 82% of wastewater untreated/not reused

Source: AQUASTAT, 2021. www.fao.org/aquastat/en/

WATER CHALLENGES IN NENA



CHALLENGES

- Physical water scarcity
- Inefficient utilization of water (water use efficiency and water productivity, network losses)
- Sustainability of water resources (GW)

MAJOR PROGRESS, BUT

- Policy directions (conflicting..)
- Science-Policy interface (Weak)
- Legal framework (challenged by enforcement capacity)
- Institutional framework (weak and overlapping mandates)
- Technical capacity (weak..)
- Technology and Innovation (low investment and slow adoption)



FAO REGIONAL INITIATIVE ON WATER SCARCITY-NENA (WSI)



<u>Overall Objective:</u> Contribute to inclusive and sustainable development in the context of increasing water scarcity, through:

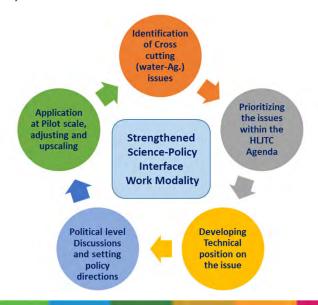
- Strengthened policy coherence/convergence/coordination between the water and agriculture sectors.
- Enhanced Partnership and Collaboration (within the Region)
- Higher awareness and collaboration inter-Regional Technical Platform on Water Scarcity (beyond the Region)
- Informed strategic water planning driven by effective water accounting, enhanced water productivity and integrated WEF nexus management approach (WEPS project).
- Non-conventional water supply alternatives (wastewater reuse) SNE wastewater reuse initiative.



Policy Coherence and Cross-Sectoral Coordination



- First Joint Ministerial Meeting (4 April 2019)
 - Endorsed the Cairo Declaration.
 - Set Joint Ministerial Meetings at biennial basis.
 - Established High-Level Joint Technical Committee annual meetings.
 - Established a Joint Secretariat (Secretariat of the AMWC and AOAD).





First meeting of the LAS Joint (Water-Agriculture) Ministerial Council (4 April 2019)



Fourth meeting of the LAS High-Level Joint (Water-Agriculture) Technical Committee (18 October 2022)

Enhanced Partnership and Collaboration



Two Major Outputs (1st land & Water Days – Dec. 2013):

- **1. Regional Collaborative Strategy** on Sustainable Agricultural Water Management (the 'Regional Collaborative Strategy')
- **2. Regional Partnership** to Support Countries in the Implementation of the Regional Collaborative Strategy.

Partnership Pledge – in support of the Regional Initiative on Water Scarcity



"We declare our strong interest and willingness to work together, drawing on our collective knowledge and resources, in an effective, action-oriented and result-based Regional Partnership, to support the implementation of relevant collaborative strategies..."

ACSAD Arab Center for the Studies of Arid Zones and Dry Lands AOAD Arab Organization for Agricultural Development AWC Arab Water Council CEDARE Center for Environment and Development for the Arab Region and Europe CIHEAM International Center for Advanced Mediterranean Agricultural Studies DRC Desert Research Center DWFI Daugherty Water for Food Institute GIZ German Cooperation Agency	ICARDA ICBA IWMI LAS NWRC-Egypt UNESCO UNESCWA WB WFP	International Center for Agricultural Research in the Dry Area International Center for Biosaline Agriculture International Water Management Institute League of Arab States National Water Research Center UN Educational, Scientific and Cultural Organization UN Economic and Social Commission for Western Asia World Bank World Food Program
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Enhanced Partnership and Collaboration

Workina Cluster

Focus Areas



 Working Cluster 1: Resilience and Climate Change Adaptation (Coordinators: UNESCWA and ACSAD)

 Working Cluster 2: Water Productivity Tools and Analytics (Coordinators: FAO and ICARDA)

Working Cluster 3: Non-Conventional Water Resources

(Coordinators: IWMI and AWC)

 Working Cluster 4: Water Governance (Coordinators: UNESCO and CEDARE)

TOWARD JOINT PROGRAMING Funding Challenges!!

- Coordinators (Two Partners per WrC)
- Members (Partners Focal Points)

Activities Details

Secretariat (FAO – WSI Team)

Working Cluster 2: Water Productivity Tools and Analytics	Organization	Area of Work	Activity Description	Service Provider	Planned Time Frame	Beneficial Countries	Location	Expected Outputs	Budget Allocated	Statistics	Notes
	IWMI	WATER PRODUCTIVITY	Capacity building training in Lebanon and Egypt	IWMI	June.2020- Sep.2020	Lebanon and Egypt	Lebanon and Egypt	Build capcity to improve water productivity using ICT technologies	٧	organizations, 38 activities.	N/A
	IWMI	WATER PRODUCTIVITY	Assessing water profitabiltiv in DELTA-Egypt	IWMI	June. 2020- Sep. 2021	Egypt				(FAO: 10 activities; ICARDA: 8	
	IWMI/FAO	Water Accounting	Conduct a Regional Training Workshop to build the Capacity of Technical Staff of the Ministry of Water Resources on Rapid and Advanced Water Accounting	IWMI	Sept. 2020 Dec. 2021	Egypt - Jordan - Lebanon	ТВС	Build the Capacity of 5 staff members per country - Develop Training Materials - Establish an online Repository of the Course	V	activity; IWMI: 5 activities; AOAD: 4 activities; ACSAD: 1 activity; UNESCO: 2 activities;	
	IWMI	Irrigation	Develop IRWI App (irrgation water) in Egypt	IWMI	June.2020- Sep.2020	Egypt				ICBA: 2 activities;	
	IWMI	Irrigation	Upgrade LARI App to provide irrigation water reg in Lebanon	IWMI	June.2020- Sep.2020	Lebanon				ESCWA: 2 activities; IFAD : 1 activity;	
	Arab Organization for Agricultural Development (AOAD)	WATER PRODUCTIVITY	The use of smart agriculture to overcome water scarcity and increase productivity. TOT on smart agriculture / TOT on water productivity. estimation at local and		Nov-20	22 Arab Countries	Khartoum	Understanding the concept of water productivity, training on the use of GIS techniques, understanding the basic concepts of remote sensiong concepts, estimation of crop yield, estimation of water use and water productivity.	50000	CEDARE: 2 activities; AWC: 1 activity)	

Enhanced Partnership and Collaboration



Toward Joint Programing (Funding Challenge!!)

Water Scarcity Initiative Programme

Agricultural Water <u>Go</u>	Resilience of Food Systems and Water Services to Climate Change					<u>Knowledge</u> Management				
	WEFE Nexus Policy Coherence and Cross- Sector Coordination	Integrated Land and Water Management Water Accounting and	Productivity Food Loss and Waste	Drought Management	Saline Agriculture	WASH Services and Management	Data Gap	Tools for Knowledge Management	Awareness and Communication	Knowledge sharing

FAO, UN-ESCWA, ICBA, ICARDA, IWMI, UNICEF, + (LAS, AOAD, ACSAD, RCREEE,...)

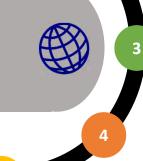
Enhanced Partnership and Collaboration (iRTP-WS)





"Leaving No One Behind" (A) Supporting the International Agenda, Lead and facilitate discussions on governance reform s, effective nexus fram eworks

Five Areas of Work
Embracing Complexity,
Inclusion, Interconnectedness,
and Innovation!



(B) Know ledge M anagement, Technology and Innovation, Poolexperiences, M ake use of broader exchange and learning for and promotes the use of digital transformation and advanced tools

- (C) Inclusion & Participation, Forge strategic alliances and fostering intersectoral collaboration and Partnership
- (D) Capacity Building and Engagem ent Prom ote joint ventures and Support the developm entofa com m on capacity developm entagenda to prom ote sound practices





(E) Scaling up investments and Innovation: Support Grantmatchmaking, funding alliance and cost-sharing.

Informed Strategic Water Planning at National Level (WEPS-NENA Project)





Water Accounting

- 10 case studies- rapid water accounting in 8 countries
- 500 people trained in the basics or water accounting
- 160 people trained in advanced water accounting,
- 80 Webinars on water accounting, ET etc.
- 1600 members of the community of Practice on water accounting,
- Five NENA countries engaged in a process of institutionalizing water accounting

Water Productivity

- 500 farmer surveys for 9 local water productivity assessment,
- 90 people trained in water productivity concepts, tools and crop ET measurement,
- 600 farmers engaged in Farmer Field Schools activities on WP
- 14 Webinars on WP
- 400 members of the community of Practice on water Productivity,
- Seven countries engaged in a regional network on measurement of crop ET,
- 1 country local governance process engaged (groundwater governance & water productivity)

Nexus WEF

- 2 Integrated WEF Model (Jordan, Souss Massa/Morocco),
- 1 assessment of Solar irrigation development (Palestine)
- 1 assessment of water/energy for agriculture water (ongoing)
- 60+ people trained in Nexus tools
- 14 webinars on Nexus
- 350 members of the community of Practice on Nexus WEF
- 1 reg. Training on SPIS

Knowledge & Stakeholder engagement

- 5 Methodologies designed (water accounting, water productivity assessment, economic WP field to fork, Nexus,
 - Gender/water/agriculture)
- Blocks of training modules& MOOC (ongoing)
- 4 community of practices created, enhanced or support
- 5000 people following the project work
- 1 website

Water Scarcity Initiative Program (Phase 2) Under preparation in consultation with Sida and the Netherlands and 5 partner organizations

Reflections and Directions



- Water Scarcity is A GROWING IMPEDIMENT to sustainable development, climate change impacts as an aggravating factor.
- Improvements are visible, but NOT ENOUGH to overcome the mounting challenges.
- POLITICAL WELL is the underpinning factor for any meaningful improvements.
- CROSS SECTOR COORDINATION AND POLICY COHERENCE is no longer an option, it is a must.
- Timely TECHNOLOGY transfer and an enabling environment for INNOVATION is key for facing water scarcity.
- TECHNICAL CAPACITY and EVIDENCE are elemental for informed decision making.
- INNOVATIVE FINANCING mechanisms are needed to bridge the growing financing gap.
- Water Scarcity is TOO COMPLEX to be addressed and resolved without genuine collaboration.





Thank you for your attention

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