



WASAG

The Global Framework on
Water Scarcity in Agriculture

The Global Framework on Water Scarcity in Agriculture: achievements

Showcase event and Partners meeting
Stockholm WWW, 30 August 2018



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The Global Framework on
Water Scarcity in Agriculture

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From the WEF Global Risks Report (2018)

Global Risks Report

The 5 risks that will have the biggest impact in the next 10 years

	rank
Weapons of mass destruction	1
Extreme weather events	2
Natural disasters	3
Failure of climate change mitigation & adaptation	4
Water crises	5

Source: Global Risks Perception Survey 2017-2018, World Economic Forum

Agricultural Water Demand

Agriculture
is responsible for an
average of
70 %
of water
withdrawals from
surface and
groundwater sources
worldwide



That leaves 30 % for
everything else:

- Domestic
- Industries
- Electricity
- Environment

Source: Adapted from www.ceres.org/FoodWaterRisk

For agriculture dependent economies such as Swaziland and Syria, this figure is higher!

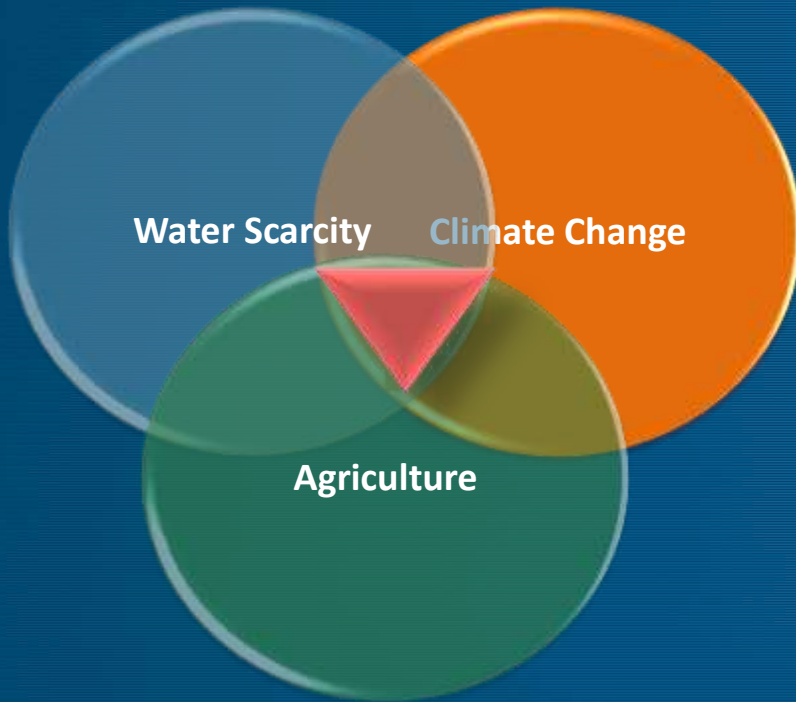
Challenges of the agricultural sector



- Growing population (mostly in cities) and changing diets
 - Need to increase and improve (nutritious) food production
- Cause and casualty of climate change and climate variability
 - Mitigation and adaptation measures required
- Increased competition for scarce resources
 - Need to improve water productivity



Priorities



Water scarcity = an entry point to address agriculture adaptation in the context of climate change

- **Agenda 2030** and the Sustainable Development Goals 2, 6, 12, 13 and 15
- **Climate Change** agenda in agriculture: **77% of countries include water scarcity in their NDCs**
- **Other country priorities** (drought management, water and migration, waste water, etc)



19/20 April 2017

The First meeting of Partners adopts Rome Statement and establishes an Interim SC

October 2016

Endorsed by the Summit of Water Ministers at the Second World Irrigation Forum in Chiang Mai, Thailand.

November 2016

The Global Framework on Water Scarcity was officially launched during the **UNCCC COP22** in Marrakesh, Morocco.

January 2017

Endorsed by 83 Ministers of Agriculture during the 9th Berlin Agriculture Ministers' Conference at the **Global Forum for Food and Agriculture (GFFA)**, and the **G20**

September 2017

Endorsed by the **UNCCD COP 13** as a **knowledge-sharing partnership** to help countries develop their drought preparedness plans in Ordos, China

Rome Statement (20 April 2017)

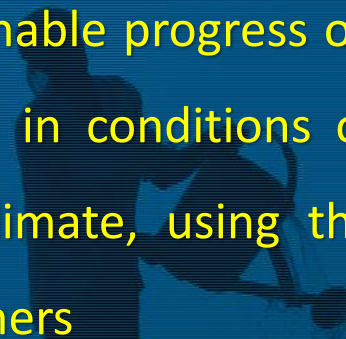


VISION

A world whose food systems are secure and resilient to increasing water scarcity in a changing climate

MISSION

To support measurable, significant and sustainable progress on improving and adapting agricultural systems in conditions of increasing water scarcity and a changing climate, using the combined expertise and resources of the Partners



Rome Statement


OBJECTIVES

To urgently address the following important and relevant work areas at international and country levels:

- 🌍 **Advocating for political prioritization.**
- 🌍 Cooperating on work programmes.
- 🌍 **Sharing and disseminating knowledge and experience.**
- 🌍 Developing new or improved solutions.
- 🌍 **Promoting sustainable and integrated water resources management.**
- 🌍 Building capacity of Partners and countries and other stakeholders.
- 🌍 **Contributing to consistent monitoring systems.**

WASAG Governance



- 59 Partners (from more than 22 different countries)
 - New Steering Committee (since Monday 27 August)
 - Guided by the:
 - Rome Statement
 - Terms of Reference adopted by the ISC and FAO
 - Hosted by FAO
 - WASAG Support Team - Secretariat
- 

WASAG Partners

ASU School for the Future of Innovation in Society
 Arizona State University

eit Climate-KIC

CGIAR Independent Science and Partnership Council

Global Water Partnership

IFPRI INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE

UNESCO-IHE Institute for Water Education

ICARDA Science for Better Livelihoods in Dry Areas

ICBA تربية للوقت AGRICULTURE FOR TOMORROW

CIHEAM

ICID-CIID

IFS INTERNATIONAL FOUNDATION FOR SCIENCE

IWMI International Water Management Institute

Ministry of Foreign Affairs of the Netherlands

ANA AGÊNCIA NACIONAL DE ÁGUAS

Water for Food ROBERT B. DAUGHERTY INSTITUTE at the University of Nebraska

TEXAS A&M AGRILIFE RESEARCH

GWA GENDER AND WATER ALLIANCE

Semiáridos AMÉRICA LATINA

UNESCO United Nations Educational, Scientific and Cultural Organization

United Nations Framework Convention on Climate Change

FAO Food and Agriculture Organization of the United Nations

UNU-INWI Institute for Water, Environment and Health

World Meteorological Organization Weather - Climate - Water

UC DAVIS UNIVERSITY OF CALIFORNIA

WORLD RESOURCES INSTITUTE ROSS CENTER

WORLD WATER COUNCIL

United Nations

RÉPUBLIQUE FRANÇAISE Liberté • Égalité • Fraternité

AFRICAN UNION

IFAM ORGANICS INTERNATIONAL

FUNDACION GRAN CHACO

WOMEN FOR WATER PARTNERSHIP

Griffith UNIVERSITY

World Business Council for Sustainable Development

G-eau Gestion de l'Eau, Acteurs, Usages

Water JPI

GOBIERNO DE ESPAÑA MINISTERIO DE AGRICULTURA Y PESCA, ALIMENTACION Y MEDIO AMBIENTE

UN environment United Nations Environment Programme

International Centre for Water Resources and Global Change

MINISTERO POLITICHE AGRICOLE ALIMENTARI E FORESTALI

Convention on Biological Diversity وزارة الزراعة Ministry of Agriculture

McGill

COOP International Co-operative Alliance

SIWI

CONAGUA COMISIÓN NACIONAL DEL AGUA

IIASA International Institute for Applied Systems Analysis

IFAD INTERNATIONAL FUND FOR AGRICULTURAL DEVELOPMENT

IDA

European Investment Bank

FAO support to WASAG (1)


- Full time staff dedicated to the WASAG Support Team
- Technical staff supporting the working groups
- 3 interns dedicated to WASAG (Italy, Canada, France)
- One staff seconded from Turkey (6 months)
- 3 or 4 interns supporting other WASAG working groups
- Communication: website, flyers and promotional material

FAO support to WASAG (2)

- WASAG on the agenda of the next meeting of Committee on Agriculture (COAG)
- FAO SP2's Global Knowledge Product on Water in Agriculture and Food Systems
- Support to WASAG working groups
- **Just completed:** WASAG e-forum on Indigenous Knowledge Practices to cope with water scarcity with the facilitation Global Forum on Food Security and Nutrition, with FAO Technical Networks, the WASAG Network and the Youth in Water Network.
- Coordination of international events (WWF, WWW, etc.)



Support to countries (through FAO)

- Support to the one million cistern project (West Africa) – with funding from Italy, inspired by Brazil.
 - Coordination and support to regional offices to develop Technical Cooperation Projects (TCP) aimed at addressing water scarcity in agriculture (RAF, RAP, RLC and RNE)
 - Cape Verde (under discussion)
- 

Other partners - countries

- **Italy** – established a chapter of WASAG with a structure mirroring the WASAG working groups
- **Spain** – training centre for irrigation technologies (MoU signed at the World Water Forum 8)
- **Brazil** – (ANA) – hosted the last meeting of the WASAG ISC during the WWF-8
- **Cape Verde** – engaging WASAG actively
- **Tunisia**
- **Jordan**



Partners leading the working groups

Seven working groups established since the 3rd ISC meeting with the aim to focus the work of WASAG on emerging issues (also for quick wins):

- 🌍 **Water and Migration**
- 🌍 Drought Preparedness
- 🌍 **Financing Mechanisms**
- 🌍 Water and Nutrition
- 🌍 **Sustainable Agriculture Water Use**
- 🌍 Saline Agriculture
- 🌍 **WASAG Communication strategy**



Groups	Water & Migration	Drought Preparedness	Financial Mechanisms	Water & Nutrition	Sustainable AG Water Use	Communication Strategy	Saline Agriculture
Leader	Global Water Partnership (GWP) Julienne Roux Kostantina Toli	UNCCO Daniel Tsogai	World Bank (WB) Steven N. Schonberger	International Food Policy Research Institute (IFPRI) Claudia Ringler	International Water Management Institute (IWMI) Meredith Giordano	International Commission on Irrigation & Drainage (ICID) Sahdev Singh Focal Point: Marco Arcieri	International Center for Biosaline Agriculture (ICBA) Ismahane A. Elouafi
Co-Leader	International Water Management Institute (IWMI) Claudia Sadoff Focal point: Alan Nicol	Robert B. Daugherty Water for Food Global Institute at the University of Nebraska Mark Svoboda World Meteorological Organization (WMO) Robert Stefanski Global Water Partnership (GWP) Frederik Pischke Representing: Integrated Drought Management Programme (IDMP)	Climate KIC Daniel Zimmer International Fund for Agricultural Development (IFAD) Mawira Chitima	Stockholm International Water Institute (SIWI) Jan Lundqvist	International Food Policy Research Institute (IFPRI) Mark Rosegrant International Commission on Irrigation & Drainage (ICID) Harish Kumar Varma International Fund for Agricultural Development (IFAD) Mawira Chitima	/	Permanent Representation of the Islamic Republic of Iran to FAO H.E. Mohammad Hossein Emadi
Collaborators	World Resources Institute (WRI) Charles Iceland International Fund for Agricultural Development (IFAD) Amandine Adamczewski-Herzog French Agricultural Research Centre for International Development (CIRAD) Amandine Adamczewski-Herzog International Commission on Irrigation & Drainage (ICID) Sahdev Singh Focal Point: Marco Arcieri Italian Coordination Group Raffaella Zucaro Food and Agriculture Organization of the United Nations (FAO) Patricia Mejias Moreno	Italian Coordination Group Raffaella Zucaro United Nations Educational, Scientific and Cultural Organization (UNESCO) Abou Amani French Agricultural Research Centre for International Development (CIRAD) Bruno Barbier Food and Agriculture Organization of the United Nations (FAO) Patricia Mejias Moreno	World Business Council for Sustainable Development (WBCSD) Tatiana Fedotova Italian Coordination Group Raffaella Zucaro International-Cooperative Alliance (ICA) Danila Curcio European Investment Bank (EIB) Bogachan Benli CIRAD Damien Jourdain Sylvie Morandet (IRSTEA) Organisation for Economic Co-operation and Development (OECD) Guillaume Guère	Food and Agriculture Organization of the United Nations (FAO) Olcay Ünver	World Bank (WB) Susanne Schiring Ministry of Foreign Affairs, the Netherlands Job Kleijn Food and Agriculture Organization of the United Nations (FAO) Jippe Hoogveen French Agricultural Research Centre for International Development (CIRAD) Cristèle Leauthaud Robert B. Daugherty Water for Food Global Institute at the University of Nebraska Christopher Neale	Women for Water Partnership (WfWP) Verhoeff-Cohen, Mariet International Water Management Institute (IWMI) Julie Van der Bieck Global Water Partnership (GWP) Kostantina Toli	Food and Agriculture Organization of the United Nations (FAO) Baris Ensari Rosaida Dolta UNCCO Daniel Tsogai Italian Coordination Group Raffaella Zucaro International Water Management Institute (IWMI) Claudia Sadoff International Center for Agricultural Research in the Dry Areas (ICARDA) Thob Oweis

WASAG Working Groups

Groups	Leader	Co-Leader	Collaborators
Water & Migration	<p>Global Water Partnership (GWP)</p> <p><i>Julienne Roux</i> <i>Kostantina Toli</i></p>	<p>International Water Management Institute (IWMI)</p> <p><i>Claudia Sadoff</i></p> <p><u>Focal point:</u></p> <p><i>Alan Nicol</i></p>	<p>World Resources Institute (WRI)</p> <p><i>Charles Iceland</i></p> <p>International Fund for Agricultural Development (IFAD)</p> <p><i>Mawira Chitima</i></p> <p>French Agricultural Research Centre for International Development (CIRAD)</p> <p><i>Amandine Adamczewski-Herzog</i></p>
Drought Preparedness	<p>UNCCD</p> <p><i>Daniel Tsegai</i></p>	<p>Robert B. Daugherty Water for Food Global Institute at the University of Nebraska</p> <p><i>Mark Svoboda</i></p> <p>World Meteorological Organization (WMO)</p> <p><i>Robert Stefanski</i></p> <p>Global Water Partnership (GWP)</p> <p><i>Frederik Pischke</i></p> <p><u>Representing:</u> Integrated Drought Management Programme (IDMP)</p>	<p>Italian Coordination Group</p> <p><i>Raffaella Zucaro</i></p> <p>United Nations Educational, Scientific and Cultural Organization (UNESCO)</p> <p><i>Abou Amani</i></p> <p>French Agricultural Research Centre for International Development (CIRAD)</p> <p><i>Bruno Barbier</i></p> <p>Food and Agriculture Organization of the United Nations (FAO)</p> <p><i>Patricia Mejias Moreno</i></p>

WASAG Working Groups

Groups	Leader	Co-Leader	Collaborators
Financial Mechanisms	World Bank (WB) <i>Steven N. Schonberger</i>	Climate KIC <i>Daniel Zimmer</i> International Fund for Agricultural Development (IFAD) <i>Mawira Chitima</i>	World Business Council for Sustainable Development (WBCSD) <i>Tatiana Fedotova</i> Italian Coordination Group <i>Raffaella Zucaro</i> International-Cooperative Alliance (ICA) <i>Danila Curcio</i> European Investment Bank (EIB) <i>Bogachan Benli</i>
Water & Nutrition	International Food Policy Research Institute (IFPRI) <i>Claudia Ringler</i>	Stockholm International Water Institute (SIWI) <i>Jan Lundqvist</i>	Food and Agriculture Organization of the United Nations (FAO) <i>Olcay Unver</i>

WASAG Working Groups

Groups	Leader	Co-Leader	Collaborators
Sustainable Agriculture Water Use	International Water Management Institute (IWMI) <i>Meredith Giordano</i>	International Food Policy Research Institute (IFPRI) <i>Mark Rosegrant</i>	World Bank (WB) <i>Susanne Schirling</i> Ministry of Foreign Affairs, the Netherlands <i>Job Kleijn</i>
		International Commission on Irrigation & Drainage (ICID) <i>Harish Kumar Varma</i> International Fund for Agricultural Development (IFAD) <i>Mawira Chitima</i>	Food and Agriculture Organization of the United Nations (FAO) <i>Jippe Hoogeveen</i> French Agricultural Research Centre for International Development (CIRAD) <i>Crystele Leauthaud</i> Robert B. Daugherty Water for Food Global Institute at the University of Nebraska <i>Christopher Neale</i>
Communication Strategy	International Commission on Irrigation & Drainage (ICID) <i>Sahdev Singh</i>	Global Water Partnership (GWP) <i>Kostantina Toli</i>	Women for Water Partnership (WfWP) <i>Mariet Verhoeff-Cohen</i> International Water Management Institute (IWMI) <i>Julie Van der Bliek</i>

WASAG Working Groups meeting during the WWF-8



Drought Preparedness



Water & Migration



Sustainable Agricultural Water Use



Water & Nutrition



Communication



Financing Mechanisms


WASAG work plan project criteria

- Relevance to WASAG mission: water scarcity in agriculture in a changing climate
- Readiness for implementation (actionable, funding availability)
- More than one WASAG partner involved (partnerships)
- Budget assured
- Actual deliverables within 2 years
- Potential for upscaling or replication





WASAG work plan: deliverables

- Innovative and new solutions, rather than traditional
 - Support to stakeholder (mainly country) activities on the ground
 - Pilot project
 - New methodologies, concepts, guidelines and tools (as 'public good')
 - Technology development
 - Training and capacity building material
 - Conference, HL-Panel etc. (advocacy, political will)
 - Other
- 




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WASAG work plan project status

- **Proposals/ Concept Notes under preparation**
 - Concept Notes submitted
 - **Projects under preparation**
 - Projects under implementation (active work plan)
 - Other (specify)
- 

TITLE OF THE PROJECT	
EXPECTED PRODUCT(S) (20 words maximum per product, 100 words maximum in total) Products must be relevant to water scarcity in agriculture	Product 1: Product 2: Product 3:
EXPECTED IMPACT	
CONTRIBUTION TO SDGs	SDG2 SDG6 SDG12 SDG13 SDG15 Other SDGs – specify:
DATES	START: dd/mm/yy END: dd/mm/yy
COUNTRIES/REGION	
RELATED WORKING GROUP(S)	Water & Migration Drought Preparedness Financing Mechanisms Water and Nutrition Sustainable Agriculture Water Use
LEAD WASAG PARTNERS & OTHER PARTNERS	
CONTACT PERSON	Name: E-mail:
BUDGET (US\$)	
SOURCE OF FUNDING	
STATUS	Proposal /Concept Note under preparation Concept Note submitted Project under preparation Project under implementation Other (specify)
WASAG CRITERIAS (Please check the boxes that apply)	Relevance to WASAG mission: water scarcity in agriculture Readiness for implementation (actionable, funding availability) More than one WASAG partner involved (partnerships) Budget assured Actual deliverables within 2 years Potential for upscaling or replication
DELIVERABLES (Please check the boxes that apply)	Innovative and new solutions, rather than traditional Support to stakeholder (mainly country) activities on the ground Pilot project New methodologies, concepts, guidelines and tools (as 'public good') Technology development Training and capacity building material Conference, HL-Panel etc. (advocacy, political will) Other (specify):
LEAD AGENCY REMARKS	

Challenges and opportunities!

- Through the WASAG Partnership, the challenges of coping with water scarcity in agriculture are turning into opportunities.
- During this WWW, three working groups have shared their work, with a WASAG showcase event, a Partners meeting and a SC meeting.
- The momentum needs to be sustained
- Tangible deliverables should not take long





Food and Agriculture Organization
of the United Nations

WASAG@ONE

Celebrating the first anniversary
of the Global Framework on
Water Scarcity in
Agriculture



*WASAG is now geared for less
talk and more action!*





WASAG

The Global Framework on
Water Scarcity in Agriculture

**Substantive progress in just over one year
- justifying the need for WASAG**

Let us all get involved!

HOW ?

Contact us at Water-Scarcity@fao.org



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The way forward (next steps)!

- Emerging work from the working groups
- Contributions from Partners: examples of Italy, Spain
- Consolidation of the work plan
- Towards tangible deliverables (at country level)

