



أكاديمية البحث العلمي والتكنولوجيا
Academy of Scientific
Research & Technology



PRIMA
PARTNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA

WORKSHOP

Strengthening EU-Africa cooperation in Water RDI: opportunities and challenges

Cairo, Egypt
& online

26 October 2021

12.00-16.00 CEST





WELCOME AND OPENING

Véronique Briquet-Laugier
Water JPI Coordinator





Welcome address

Mahmoud Sakr
ASRT President



أكاديمية البحث العلمي والتكنولوجيا
Academy of Scientific
Research & Technology



Agenda & Aims of the workshop

Mohamed El-Shinawi

PRIMA co-Chair



Aims of the workshop

- ▶ To explore opportunities for collaboration between Europe and Africa in water RDI
- ▶ To support the development of international cooperation strategies of water RDI initiatives through the collection of relevant information
e.g. water RDI themes, collaboration modalities, cooperation barriers
- ▶ To exchange ideas and best practices on alignment and social innovation

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INTRODUCTION AND KEYNOTE SPEECH

Véronique Briquet-Laugier, Water JPI

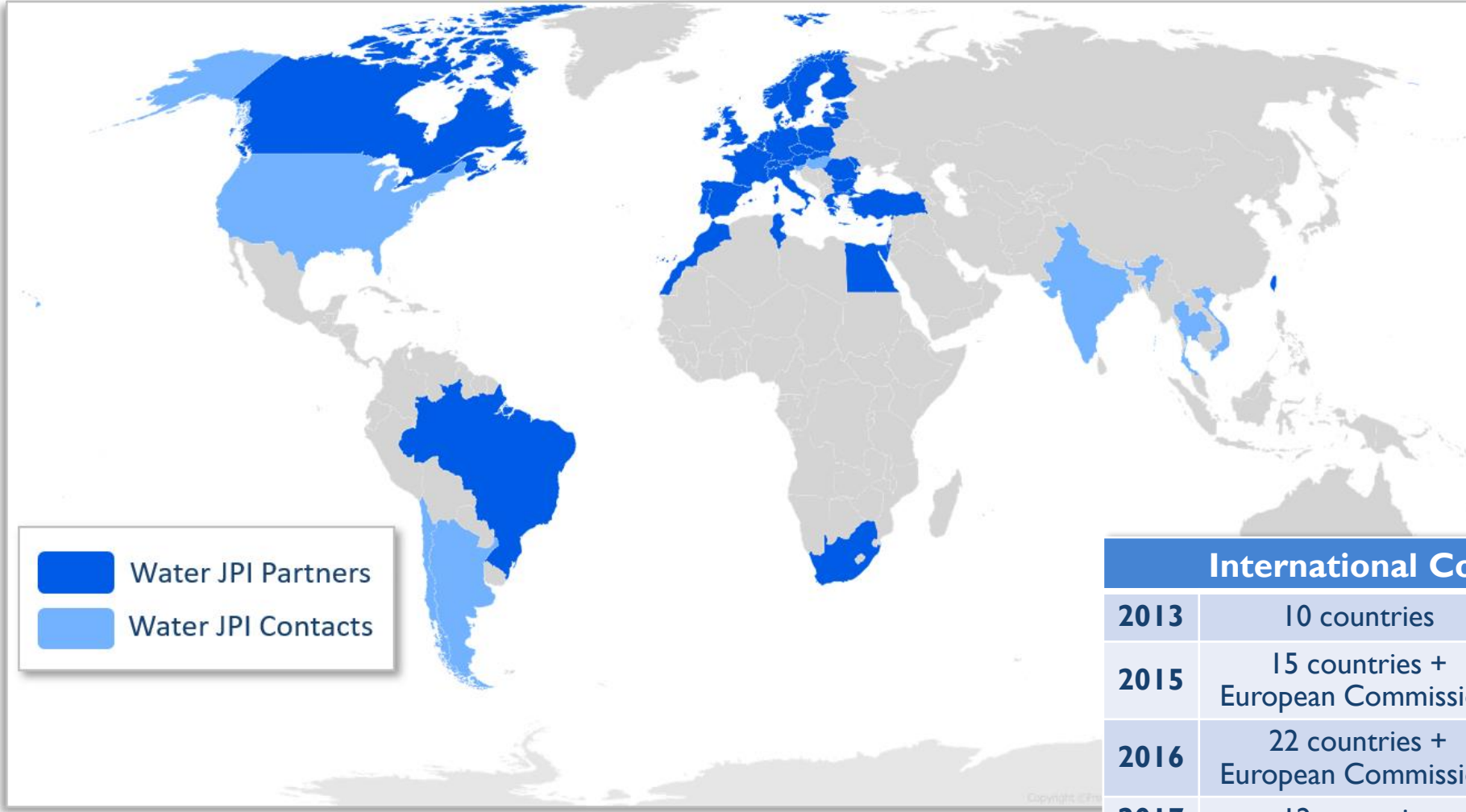
Daan du Toit, DSI



Exploring opportunities for enabling international networking

Véronique Briquet-Laugier
Water JPI Coordinator





Water JPI Partners
 Water JPI Contacts

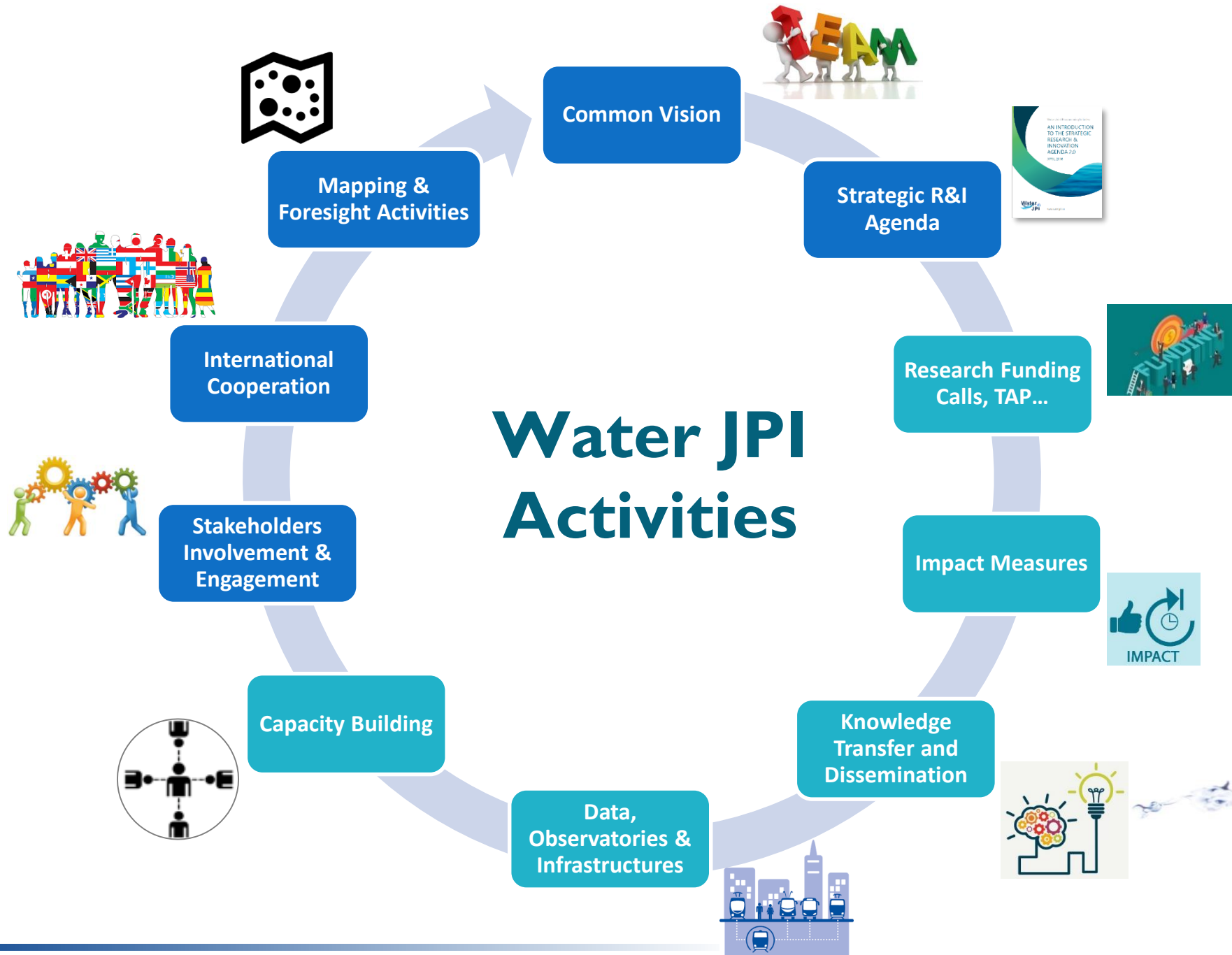
- 28 Member countries**
- 20 voting members
 - 5 associated partners
 - 3 observers
- + European Commission

International Cooperation in Joint Calls		
2013	10 countries	
2015	15 countries + European Commission	With Israël and South Africa
2016	22 countries + European Commission	Canada, Egypt, South Africa, Taiwan, Tunisia and Turkey
2017	12 countries	Brazil, Egypt, and South Africa
2018	18 countries + European Commission	Brazil, Egypt, Israël, South Africa and Tunisia
2020	26 countries + European Commission	Brazil, Israël, South Africa, Taiwan, Tunisia and Turkey
2020	27 countries + European Commission	Brazil, Morocco , South Africa, Taiwan and Tunisia

Water JPI Global Partnership



Water JPI Activities



Water JPI Knowledge Hubs for knowledge sharing, transfer and dissemination

WHO & HOW?

- A network of selected researchers within a defined scientific area and involved in Research & Innovation projects funded by the Water JPI or at national level

FOR WHAT?

- Knowledge management (collecting – sharing)
- Knowledge usability
- Knowledge synthesis
- Knowledge sharing to extended domain(s)
- Knowledge dissemination & communication
- To enhance critical mass of research and technological excellence

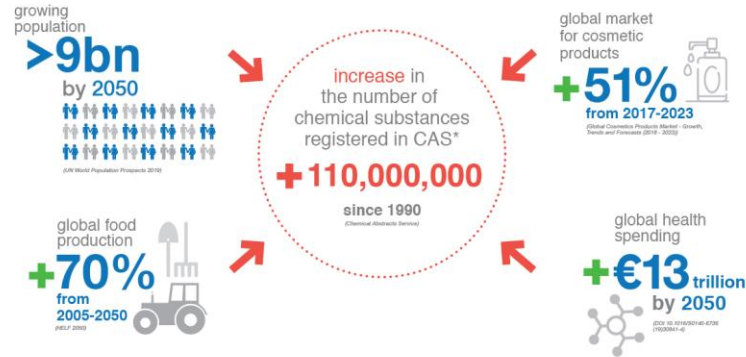
FOR WHOM?

- Knowledge transfer to end-users, stakeholders, European policy makers and the scientific community

THE CHALLENGE:
CONTAMINANTS OF EMERGING CONCERN (CECs) ARE IDENTIFIED CONTAMINANTS WHICH HAVE RAISED CONCERN ABOUT THEIR ECOLOGICAL OR HUMAN HEALTH IMPACTS.



Population growth, along with associated increases in sanitary and personal care products, advances in medicines and therapies, and a greater demand for food are all contributing to a growing number of chemicals in the environment.



This output has been created by the Water JPI Knowledge Hub on Contaminants of Emerging Concern to highlight key concerns facing our water resources today.



Water Joint Programming Initiative
Knowledge Hub on Contaminants of
Emerging Concern

**Continuous increase
of CECs in the
anthroposphere as
a stressor for water
resources**

STAKEHOLDER BRIEF
JANUARY 2020



Water Joint Programming Initiative
WATER4SDGs Knowledge Hub

'New Water' under Scarcity

Integrated Solutions to Accomplish Water Related UN SDGs

POLICY BRIEF
JULY 2020



Water JPI Knowledge Hub - KHCEC
Contaminants of Emerging Concern

Within the ERA-NET Cofund programme WaterWorks2015, one of the additional activities has been to set up a Knowledge Hub: The Knowledge Hub on Contaminants of Emerging Concern (KHCEC). This Water JPI pilot Knowledge Hub was launched in March 2018 and continued up to February 2020. During this time the KHCEC organised four workshops and produced several outputs including policy briefs, press releases, and infographics among others and engaged in dissemination activities for achieving knowledge transfer goals. The Seed Group of the KHCEC consisted of 23 experts from 11 countries. This summary aims to highlight the key achievements and added value of the KHCEC. Read more about the KHCEC here.

- Key terms of outputs from the KHCEC pilot phase 2018-2020
- November 2018: Who is Who leader, [click here](#)
 - April 2019: Implementation Plan
 - April 2019: Intellectual Property Rights (IPR) Protocol
 - May 2019: Business Plan
 - June 2019: Policy Brief - "Contaminants of Emerging Concern - an emerging risk in our waters" [click here](#)
 - October 2019: Communication Strategy/Dissemination Roadmap
 - December 2019: Stakeholder Brief - "Continuous increase of CECs in the anthroposphere as a stressor for water resources" [click here](#)
 - January 2020: Media campaign to disseminate the CEC message on a national basis, particularly by sharing press release with networks and engaging in social media activities, managed by Entigo Ltd.
 - 2019-2020: Infographics for different groups (industry, society, endusers), included in this document

Key recommendations from the KHCEC pilot phase 2018-2020

An inclusive hub for fostering knowledge transfer and SRIA alignment

The KHCEC activities made an important contribution to the development and alignment of Water JPI SRIA at national level. Focus of the KHCEC was set in a compatibility with SRIA provisions, particularly the sub-theme 2.1 "Fostering Inclusion and Empowering Stakeholders". The Policy Brief, Stakeholder Brief, Press Release and Infographics addressed research and policy challenges associated with the CEC topic in multiple ways to improve understanding of different groups. In more practical terms, the Stakeholder Brief was published as a reference for the call preparation of Aquatic Pollution 2020 Co-Fund that has been coordinated jointly by Water JPI Oceans and JPI ASMI.

It is recommended that knowledge hub activities should be inclusive and communicative to other initiatives in order to impact on SRIA alignment objectives. Inclusion of stakeholders including similar knowledge platforms, decision makers, civil society and private sector will foster dynamic interactions among these stakeholders and strengthen ownership of knowledge by end-users.



WATER4SDGS KNOWLEDGE HUB
POLICY BRIEF INFOGRAPHIC - JUNE 2020

"New Water" under Scarcity

The Challenge: The effects of water scarcity are intensifying variably all over the world. Besides increasing numbers of extreme weather events, human-induced impacts on water quality and poor governance exacerbate the water scarcity problem.



150-200 million
Number of people will be displaced due to extreme weather events globally by 2050.
(UNWATER 2016)



+\$100 billion
Cost of droughts over European economy over the past three decades.
(European Commission 2019)



1 in 3 people globally do not have access to safe drinking water

Is it possible to be indifferent to water scarcity?
Water scarcity is commonly described as the physical absence of freshwater to meet the water demands for human, sectoral and ecological needs.
Because water resources are distributed unevenly across regions, it is estimated that nearly one-third of the global population (2.1 billion people) living under extreme water scarcity conditions do not have access to safely managed drinking water services, whereas the number of people who do not have access to safely managed sanitation services is 4.2 billion.
However, assuming that "relatively less water stressed two-third of the population will be exempt from extreme scarcity risks in the future" could be a short sighted proposition.

Water JPI Thematic Annual Programming action (TAP) for a common research priority on Ecosystem Services



WHO & HOW?

- A cluster of Research & Innovation projects
- Common call text agreed by funders or selection of relevant recently-funded projects at national level or from a Water JPI Call
- 14-month preparation + 2-year period of networking

FOR WHAT?

- Transnational cooperation and exchange of approaches, methods, data and results
- Assessing and optimising the value of Ecosystem services
- To enhance critical mass of research and technological excellence
- Knowledge dissemination and communication

FOR WHOM?

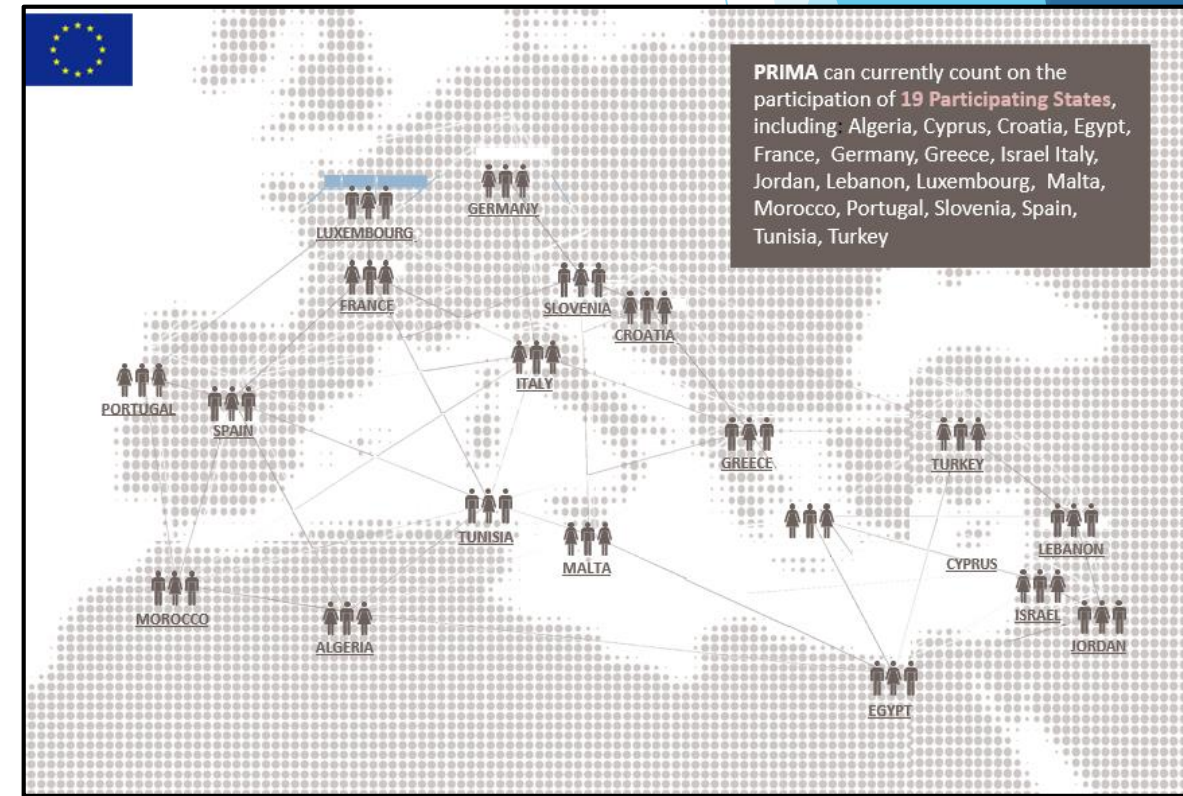
- Generating Knowledge for European policy makers, public institutions, farmers, consumers and extension services



PRIMA - The Partnership for Research & Innovation in the Mediterranean Area

- ▶ Art.185 Initiative addressing four thematic pillars: water management, farming systems, agri-food systems and the WEFE nexus
- ▶ Promotes alignment of national R&I programmes and the strengthening of R&I capacities across the participating countries
- ▶ Based on a common 10-year Strategic Research and Innovation Agenda (2018-2028)
- ▶ Tackling societal and environmental challenges through R&I (climate change, population growth, food security issues, water scarcity...)



- ▶ Partnership between **19 Participating States + European Union**
- ▶ **22 National Funding Agencies** involved
- ▶ **129 international R&I projects** funded so far, involving almost **1200 organisations** from the Participating States



International R&I cooperation on water management

PRIMA Actions



Budget	# Projects	# Entities
€ 41.4M	 31	 254

R&I Collaboration centered around 4 main water-related topics:

- ▶ Water resources availability and quality within catchments and aquifers
- ▶ Sustainable, integrated water management
- ▶ Irrigation technologies and practices
- ▶ Use of alternative water resources

Euro-Med consortia involving **public and private** organisations from **EU, MPC and H2020 Associated Countries**

Projects promoting **multi-actor approach**, and **stakeholder/end-user involvement**

Focus on both technological development and innovative governance

International R&I cooperation on water management

PRIMA Actions

MEDWATERICE - Towards A Sustainable Water Use In Mediterranean Rice-based Agro-ecosystems

- ▶ **Overall Budget:** 2.4 Mln Eur
- ▶ **Duration:** 2019-2023
- ▶ **Consortium:** Italy Egypt Spain Israel Portugal Turkey (11 partners)
- ▶ **Mixed consortium:** academia, research centres, companies
- ▶ **7 EU-Med regional case studies** and **13 pilot farms**
- ▶ **7 Stakeholder Panels** established with 25+ stk involved (rice producers, farmer associations, irrigation associations...)
- ▶ **GENERAL OBJECTIVE:** To explore the sustainability of innovative irrigation solutions in the rice production sector, in order to reduce rice water consumption and environmental impacts, and to extend rice cultivation outside of traditional paddy areas to meet the escalating demand in the Mediterranean region.

PROJECT
EXAMPLE



Partners and Regional Case Studies

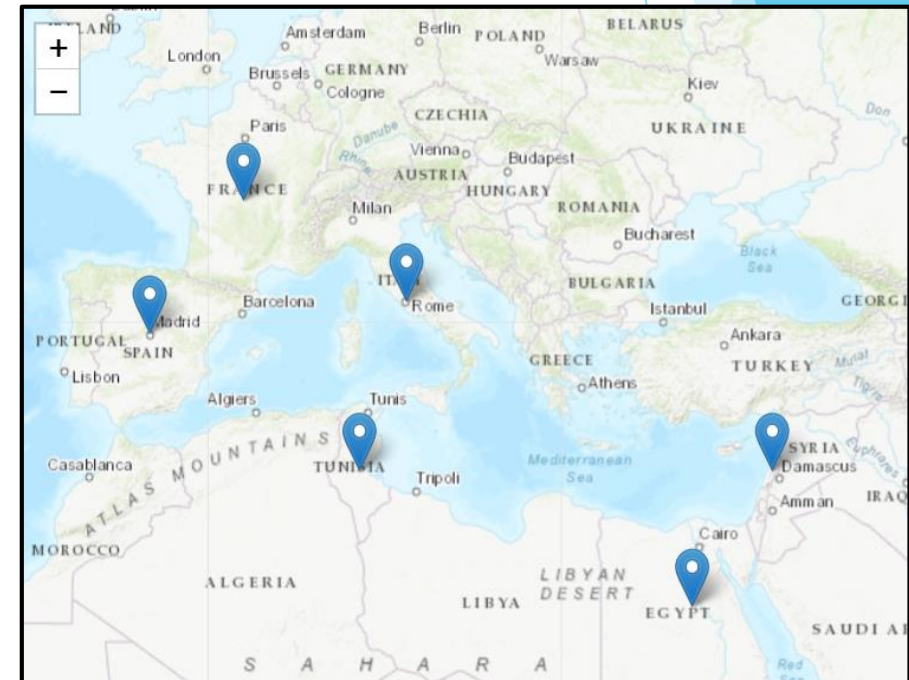
International R&I cooperation on water management

PRIMA Actions

TALANOA-WATER - Talanoa Water Dialogue for Transformational Adaptation to Water Scarcity Under Climate Change

- ▶ **Overall Budget:** 2.6 Mln Eur
- ▶ **Duration:** 2021-2025
- ▶ **Consortium:** Italy Egypt Spain Lebanon France Tunisia (8 partners)
- ▶ **Mixed consortium:** academia, research centres, companies, foundations
- ▶ **Six pilot water laboratories** in water scarce areas representative of Mediterranean conditions
- ▶ **37 Stakeholders** will be involved in pilot water laboratories (river basin authorities, local governments, associations...)
- ▶ **GENERAL OBJECTIVE:** to inform and catalyze the adoption of robust transformational adaptation strategies to water scarcity under climate change that contribute to the IWRM objectives of social equity, economic efficiency and environmental sustainability.

PROJECT
EXAMPLE



Partners and Regional Case Studies

Water JPI Conference

“From Research into Practice: pollutants, pathogens and antimicrobial resistances in the water cycle”

- ▶ Strong transfer orientation & engagement of stakeholders and policy is planned
- ▶ Two parallel streams are foreseen
 - On topic Water/Pollutants
 - On topic AMR/Pathogens
- ▶ 17 November 2021 in Germany
- ▶ **REGISTRATION OPEN!**
- ▶ <https://waterjpi-conference-muelheim.com/>



Keynote address



Daan du Toit

Deputy Director-General

South African Department of Science and Innovation



science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



PANEL DISCUSSION

Alignment of RDI programmes between
Africa and EU

12.30-13.30

PANEL DISCUSSION

Alignment of RDI programmes between Africa and EU

Moderator: Salma Essawi – Deputy Director, Research & Innovation Management Department, Academy of Scientific Research and Technology (ASRT)

Panel composition

Nienke Buisman – European Commission, DG RTD.F.2 Head of Unit for Global Approach and International Cooperation in R&I Africa

Majed Elsadek – representative of the PHEMAC project - *Participatory hub for effective mapping, acceleration and capitalization of the Water Energy and Agri-Food Nexus best practices*

Maurice Heral – Scientific officer, French National Research Agency (ANR) and former Water JPI Chair

Gustavo Perez Gonzalez – Project Manager of the Nex-Labs project - *Nexus-driven open Labs for competitive and inclusive growth in the Mediterranean*. Universitat Autònoma de Barcelona.

Amr Radwan – Head of Research & Innovation Management Department, ASRT

Mamohloding Tlhagale – Water Research Commission (WRC)

Panel members



Moderator
Salma
Essawi
ASRT



Nienke
Buisman
EC
DG RTD



Gustavo
Perez Gonzalez
Universitat
Autònoma de
Barcelona



Maurice
Heral
ANR



Mamohloding
Tihagale
WRC



Amr
Radwan
ASRT



Majed
Elsadek
PHEMAC

TIME FOR A BREAK! BACK AT 14.30...



AGENDA

14.30-15.30 - Panel discussion

Social innovation

- Social debate on competing use of water in the region
- Capacity development
- Stakeholders and private sector participation

Moderator: Adrian Healy (Cardiff University)

Panel composition:

Jean Albergel (IRD)

Octavi Quintana (PRIMA)

Craig Sheridan (URBWAT)

Uta Wehn (IHE Delft & University of Gothenburg)

TIME FOR A BREAK!
BACK AT 14.30...





PANEL DISCUSSION

Social innovation

14.30-15.30

PANEL DISCUSSION

Social Innovation

Moderator: Adrian Healy – UKRI Future Leader Fellow, Cardiff University

Panel composition

Jean Albergel – Senior Scientist, French Institute of Research for sustainable Development (IRD)

Octavi Quintana – Director, PRIMA Foundation

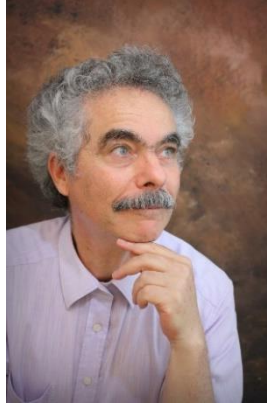
Craig Sheridan – Principal Investigator for URBWAT project. Claude Leon Foundation Chair in Water Research. Director: Centre in Water Research and Development. School of Geography, Archaeology and Environmental Studies. University of the Witwatersrand, Johannesburg.

Uta Wehn – Associate Professor of Water Innovation Studies, IHE Delft Institute for Water Education. Adlerbert Visiting Professor of Marine Citizen Science for Sustainable Development, University of Gothenburg

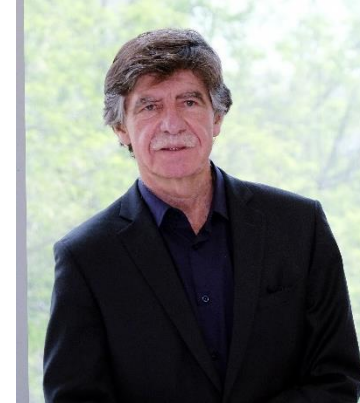
Panel members



Moderator
Adrian Healy
Cardiff University



Jean Albergel
IRD



Octavi Quintana
PRIMA Foundation



Uta Wehn
IHE Delft & University of Gothenburg



Craig Sheridan
University of the Witwatersrand



How can we encourage social innovation through EU-Africa cooperation in water RDI?

Social innovation lies at the heart of developing new approaches to water management. Social innovations may involve new technologies, but they can also involve innovations in the institutional frameworks that govern water supplies.

What counts as 'social' innovation?

Innovations that focus on tackling a human need or societal challenge, such as securing safely-managed water supplies

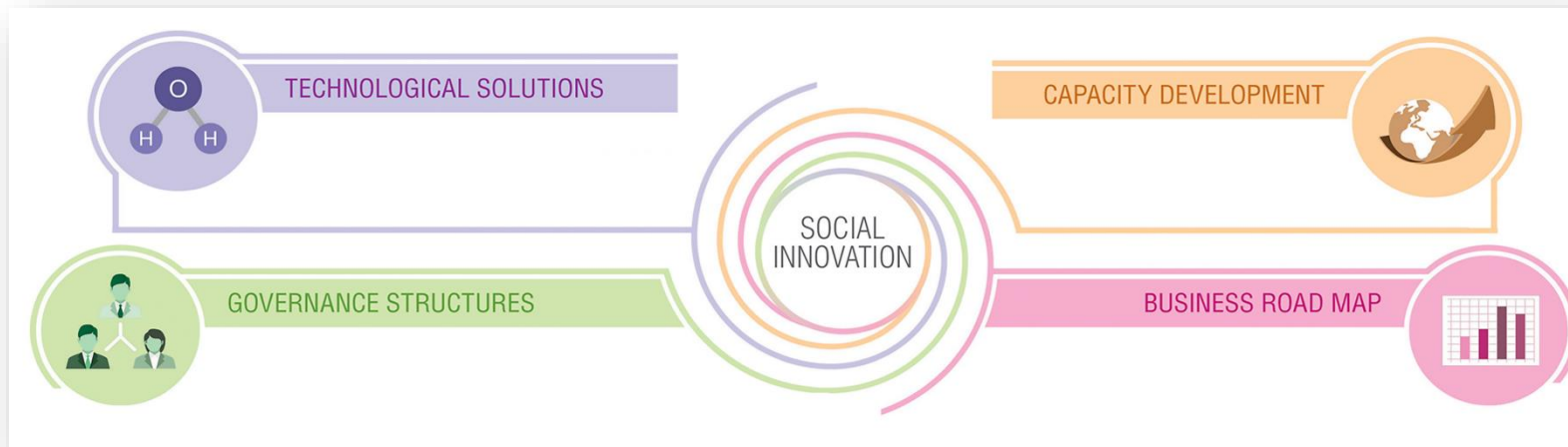
Innovations in social institutions that promote a universal right to access safely-managed water supplies

Changes in the way that goods and services are delivered in order to overcome inequalities in access to safely-managed water supplies

User-led innovations that ensure new technologies, products or services are appropriate to their setting

Social Innovation

Social innovation **process**



Social innovation **outcomes**

Societal challenges in Africa arising from climate change

Water security

Food security

Energy security

Public health

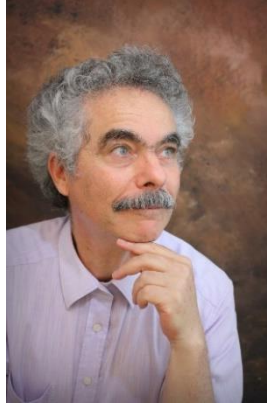
Ecosystems management

Water-Energy-Food Nexus

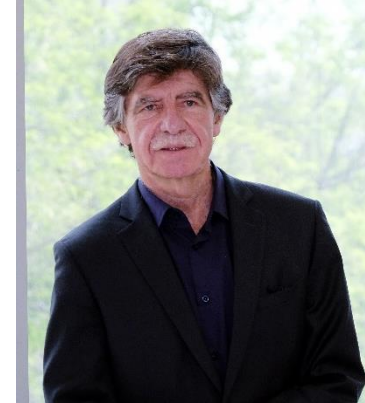
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Craig Sheridan
University of the Witwatersrand

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INTERACTIVE SESSION WITH THE AUDIENCE

Questions to the panellists?

Open to the Floor for Questions & Answers

Use the Chat Section for those online!



A dynamic splash of clear blue water against a white background, with droplets and ripples visible.

Wrap-up

Véronique Briquet-Laugier
Water JPI Coordinator





Closing remarks

Mohamed El-Shinawi

PRIMA co-Chair

Thank you!

