



Preparing Policies that Release the S&T Potential to (better) solve the water crisis

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International Office for Water



*International
Office
for Water*



Training

Data & information

**International cooperation
projects**

Developing networks

**Capacity building for better water management and
adaptation to climate change**

Decisions-makers need Water Information Systems

- How S&T and Water Information System support decision-making process :

Solving water issues requires S&T to scale up solutions (that address short and long term needs)

Improve understanding, application and utilization of S&T for decision-makers

Strengthen the link between S&T and Policy communities to provide faster and innovative solutions suitable

Governance of data management

Data production

Shared and
integrated data
management

Data processing
and valorization

Information/
knowledge
dissemination

THE MEDITERRANEAN WATER KNOWLEDGE PLATFORM

Knowledge for adaptation

Jordan, Lebanon, Monaco, Morocco, Spain & Tunisia

- **Context:** - A region of chronic water scarcity (less than 1000 m³/ inhabitant/year),
- Highly vulnerable to climate change (rainfall patterns, floods and droughts).
- **Objective:** Developing knowledge to increase basin capacities for adaptation
- **Beneficiaries:** 100 million people living in the beneficiary countries.
- **Timeframe:** phase 1: 2014- 2017; phase 2: 2018-2020

Mediterranean	Mediterranean Water Knowledge Platform for climate change adaptation
Description	<ul style="list-style-type: none"> • To provide a common and shared basis for evidence based decision making • To guide investments necessary for climate change adaptation plans
Outcomes & outputs	<ul style="list-style-type: none"> • Developing advocacy for sustainable financing of water knowledge management based on economic analysis of Water Information Systems costs • Diagnosis of data available and gaps along with a Water, Energy, Food, Ecosystem approach • Defining priority investments, (incl. substitution data base on innovative technologies such as satellites) required for improving knowledge in order to develop, monitor and assess climate change adaptation plans



Many Science to Policy initiatives have been conducted

Global objective of raising awareness of issues on the transfer of research results by coordinating or participating in many Science-Policy Interface (SPI) demonstration projects





Water PiPP

Water Public Innovation Procurement Policies

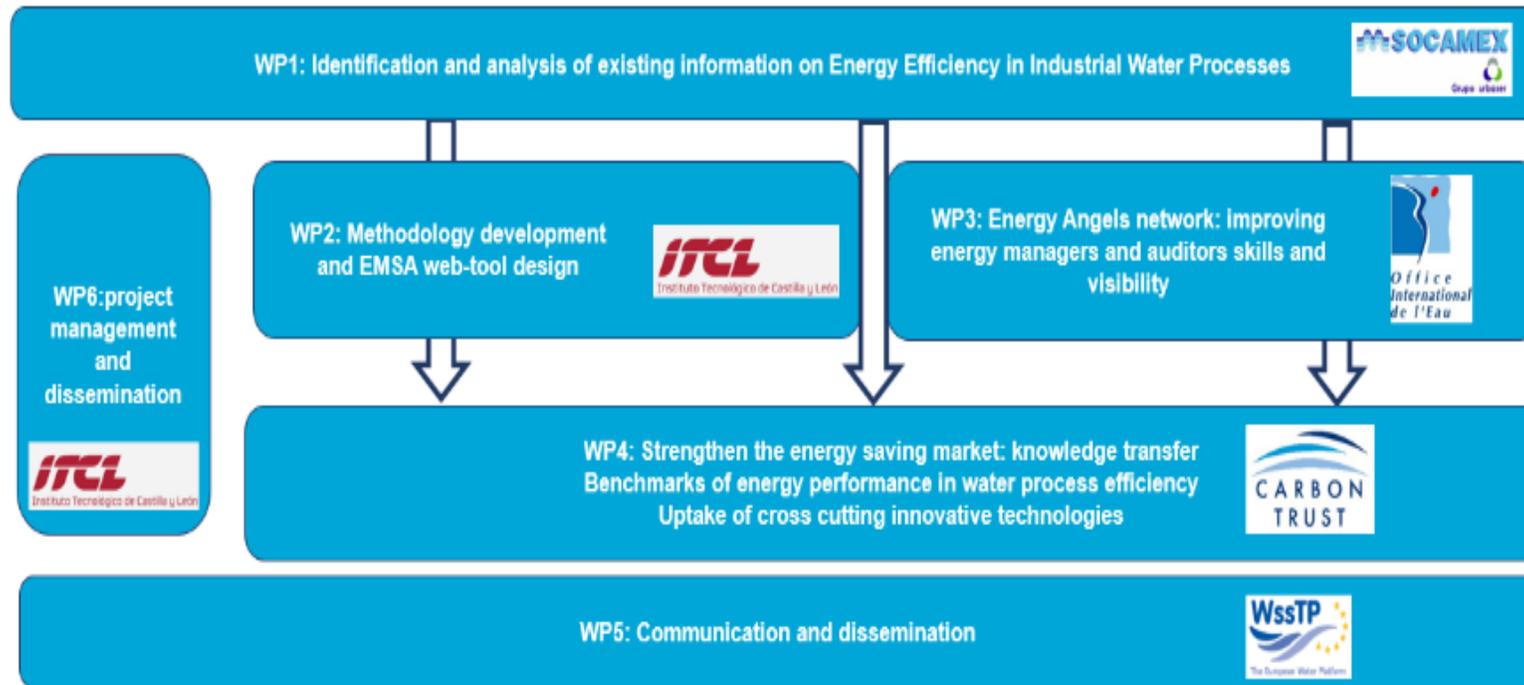
*We need to **stimulate creative and innovative solutions** contributing to tackle water challenges at European and global level, while stimulating **sustainable economic growth & job creation***

Partners





Improving energy efficiency in industrial water processes through benchmarking and benchlearning tools in Europe manufacturing industry



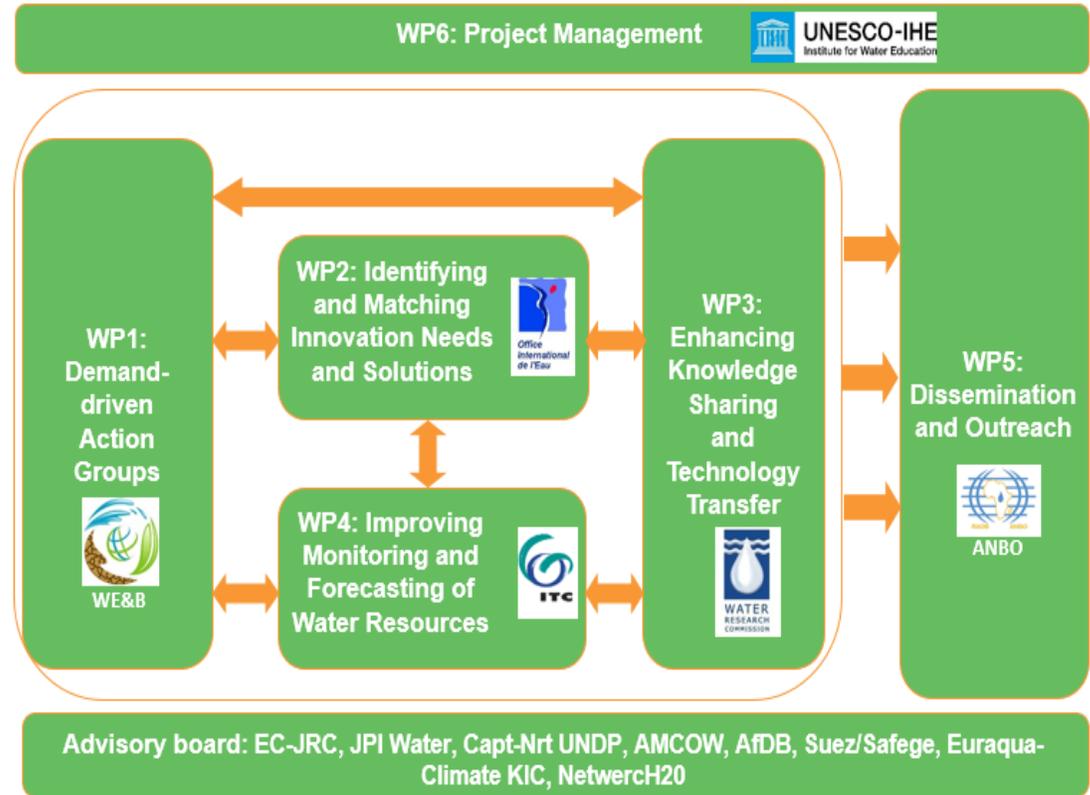
10 partners:
 France, Spain, UK, Cyprus, Ireland, Germany, Belgium, Italy





afrialliance main objective

The main objective of AfriAlliance is for African and European stakeholders to **work together** in the areas of water and climate innovation, research, policy and capacity development in order to **enhance the preparedness of Africa** for climate change challenges.



AfriAlliance : Africa-EU Innovation Alliance for Water and Climate

- A Innovative platform to **promote knowledge sharing mechanism between African and European Water stakeholders** : scientists, decision-makers, practitioners and citizens.

Supporting existing networks in identifying appropriate social innovation and technological solutions

Sharing (non) technological solutions for local challenges and identifying & boosting sustainable market & investment opportunity

Filling the gap : Scale-up Sustainable Development Goals and addressing water crises, many with severe climate change implications

Help policy makers to create a consistent approach to bilateral cooperation between Africa and the EU in the field of innovation for water and climate

Smart.MET



Drive the development of new technologies to deal with the collection and management of smart metering data, through a joint Pre-Commercial Procurement (PCP)

SMART.Met, a European PCP Project : Drive the development of a new cost effective, efficient, interoperable Water Smart Metering system based on open standards

Smart.MET

- Pre-Commercial Procurement (PCP): **procurement of research and the development of new innovative solutions, BY PUBLIC AUTHORITIES**
- PCP involves different suppliers competing through different phases of development. The risks and benefits are shared between public procurers and suppliers.
- PCP focuses on R&D before commercialization, because nothing on the market meets utilities' real needs, following a state-of-the-art study

Smart.MET

- **Better detection of leaks/water loss** to facilitate immediate action
- **Better management of networks and water balance:** decreasing operating costs
- **More efficient management of the billing process**
- More efficient water use thanks to **increased awareness on water users' behaviour**

Several innovative projects are ready to be disseminated and implemented : NWRM

- **NWRM : Natural Water Retention Measures** :Natural Water Retention Measures (NWRM) are **multi-functional measures** that aim water-related challenges by enhance, as well as preserve, the water retention capacity of aquifers, soil, and ecosystems with a view to improving their status : **NWRM offer multiple benefits.**
- **NWRM** : Innovative platform on nature-based solutions for water that gathers information at EU level : **53 identified concrete measures ready to be applied.**

Several innovative projects are ready to be disseminated and implemented : NWRM

- NWRM : Great capacity to meet the objectives of European Policies (DCE, DI)
- NWRM : Practical Guide to support the selection, design and implementation of Natural Water Retention Measures in Europe



Training and awareness of decision makers is a key trigger

Nouveau ! Inscrivez vous avant Juin 2018

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DUREE 1 AN inscription avant juin 2018 / Démarrage Septembre 2018

Global recommendations

- **Building a continuous dialogue**
 - Creating a Scientific-Political Interfacing (SPI) platform gathering decision-makers and scientists
- **Promoting technological and social innovations**
 - Developing an operational body for support
- **Transferring efficiently R&D results**
 - Identifying the needs of river basins
- **Organizing scientific dialogue and promoting a proactive approach to research users**
 - Informing researchers of the users' needs by developing participatory processes between the managers of water and research programs;
- **Disseminating knowledge**
 - Promoting twinning and knowledge transfer via the international networking of water management organizations.



8th
World Water
FORUM

Brasilia-Brazil
2018

Sharing Water

Organization



MINISTRY OF THE
ENVIRONMENT



Support

