



Improving Ecosystem Sustainability and Human Well-being



Safe water systems for citizens



Closing the Water Cycle Gap



A water-wise bio-based economy



Competitiveness in the water industry

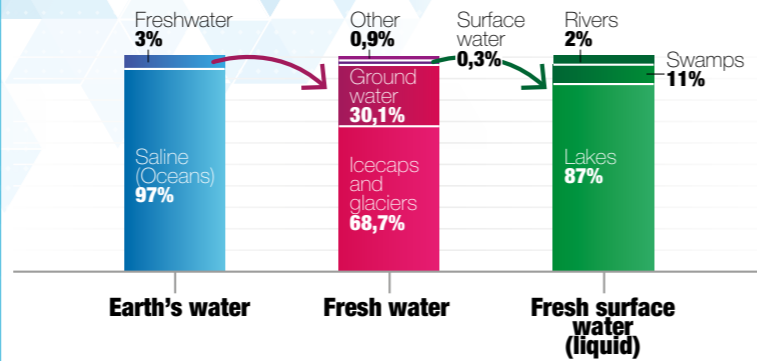


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WATER IN FIGURES



WORLD WATER RESOURCES



Source: Shiklomanov, I. A. 1993. World fresh water resources. Water in Crisis: A Guide to the World's Fresh Water Resources. Peter H. Gleick (ed), pp.13-24. New York and Oxford, Oxford University Press.

WATER IS WORK

78% of the jobs constituting the global workforce are water-dependent. Employment in the water sector increased by 1,5 times since 1991.



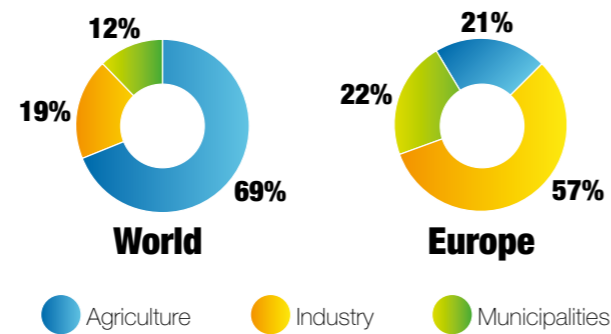
1.35 billion of people have **heavily water-dependent jobs**



1.15 billion of people have **moderately water-dependent jobs**

Source: UN Water World Development Report, 2016

GLOBAL WATER WITHDRAWALS



Source: FAO, 2015

WATER IS BENEFICIAL SERVICES

Water supports terrestrial biodiversity. The loss and degradation of biodiversity compromise ecosystems and all the services they deliver, including the supply of clean water.

PROVISIONING SERVICES

Food Production
Water
Wood and Fiber
Fuel

SUPPORTING SERVICES

Nutrient Cycling
Soil Formation
Primary Production
Habitat provision

FRESHWATER ECOSYSTEM

PROVIDE A VAST ARRAY OF SERVICES TO SOCIETY, INCLUDING CLEAN WATER.

CULTURAL SERVICES

Spiritual
Aesthetic
Educational
Recreational

REGULATING SERVICES

Climate Regulation
Flood Regulation
Water Purification

THE WATER WE EAT



Source: WaterFootprint network, Virtual Water by Tony Allan, 2011

WATER IS RISKS & DISASTERS

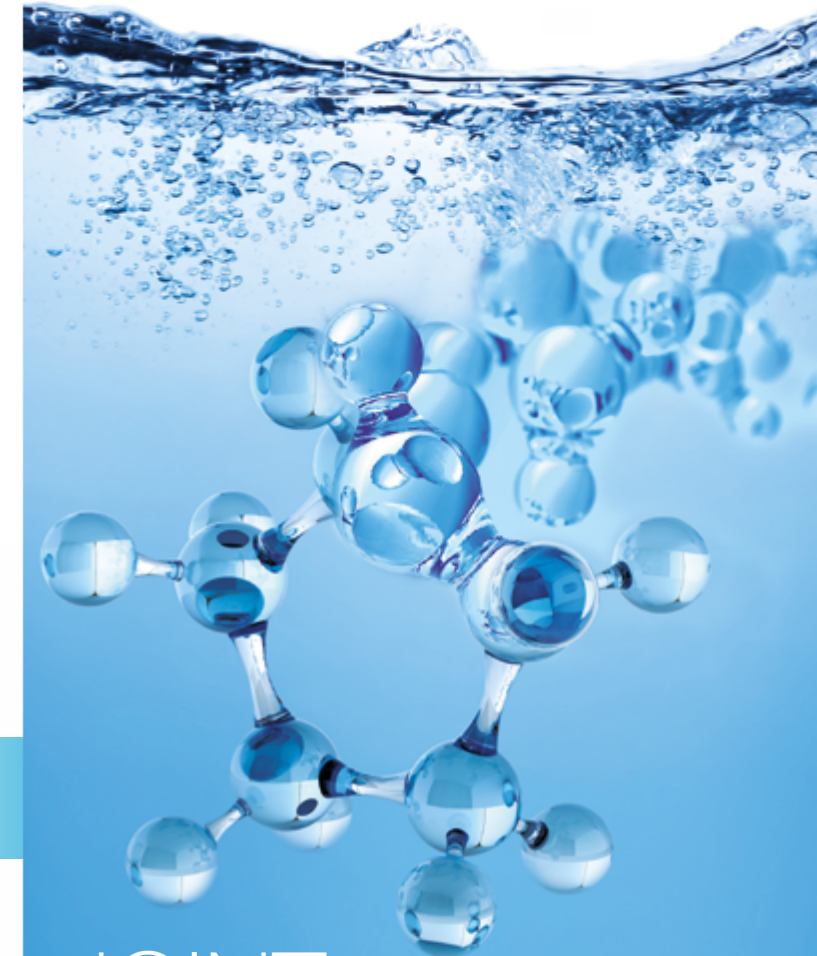
Over the last 20 years

90% of natural disasters are water related

606,000 lives claimed

4.1 billion people injured

US\$ 1,891 billion of losses



JOINT PROGRAMMING INITIATIVE ON WATER

WATER CHALLENGES FOR A CHANGING WORLD

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KEY ACHIEVEMENTS

The Water Joint Programming Initiative (JPI) was formally approved by the European Council in December 2011. It is dedicated to tackling the ambitious challenge of achieving sustainable water systems for a sustainable economy in Europe and abroad.

Progress towards **alignment** of national research programmes and agendas, which is a crucial priority enabling the optimal use of national research funds. Agreement on a **Common Vision** necessary to work together and address common challenges. This document outlines the objectives the Water JPI is aiming to achieve by 2020.

Increasing International Cooperation is a key priority activity for the Water JPI in order to reach a critical mass to provide efficient solutions in tackling our Global Societal Challenges on water.

Interaction with the EC in order to enhance knowledge and capacity that strengthens the EU leadership of water RDI activities and support their national alignment.

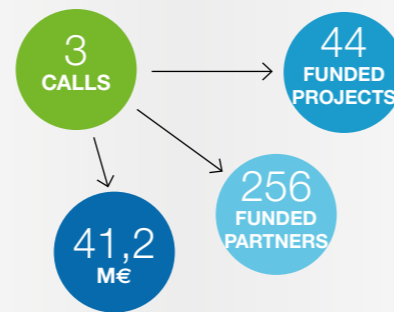
Building a **Strategic Research and Innovation Agenda (SRIA)** that presents and prioritises Research, Development and Innovation (RDI) needs. The SRIA sets guiding principles and identifies policy-relevant research priorities for the future.

Completion of a comprehensive **water RDI mapping**, including the creation of a Projects Database that provides the most up-to-date inventory of existing water-related research projects, enables linkages among research institutes and increase awareness on research activities in the water sector.

Engaging Stakeholders is essential to ensure that the Water JPI addresses the needs of society and develop practical solutions. The Water JPI **Advisory Boards** ensure that the new knowledge is effectively transferred to end-users and adopted.

WATER JPI JOINT CALLS

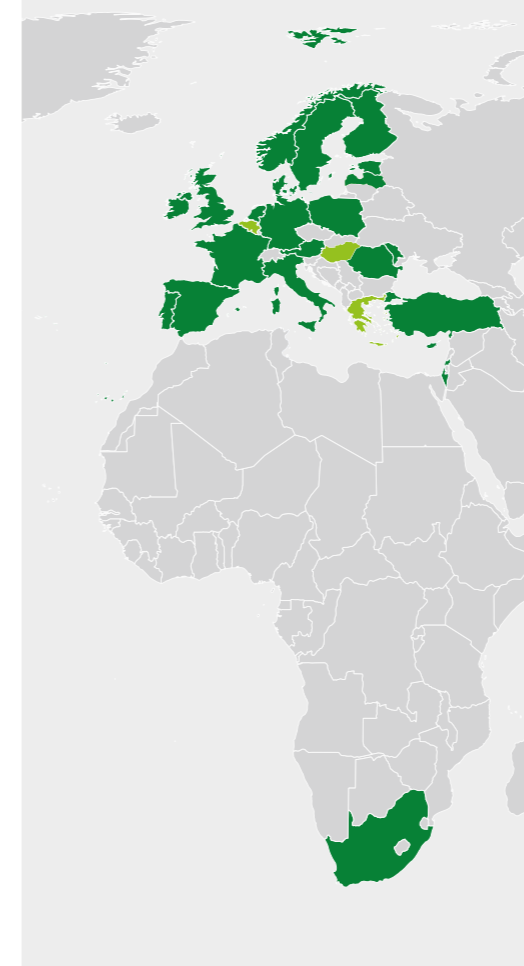
TRADITIONAL COLLABORATIVE RDI PROJETS



Establishment of the **Water JPI Communication & Dissemination Strategy** in 2013 to reach a vast range of water-related research and innovation stakeholders in Europe and abroad through various communication channels and facilitate the engagement of the public at large.



The Water JPI is composed of 22 member countries and 3 observer countries.



The Water JPI partnership collectively represents **88% of European public RDI investment** in water resources and provides an opportunity for enhanced cross-border programme collaboration resulting in a larger critical mass of resources and increased impact of research.

The Water JPI relies on **27 Partners** (i.e. countries involved in at least one activity) and is progressing discussions with **Argentina, Austria, Chile, Greece, Hungary, India, Thailand, USA and Vietnam** to get them involved in future actions.

● Water JPI Partners ● Water JPI Contacts

