

The Water JPI

Joint Programming Initiative
Water Challenges for a Changing World



Presentation for USA
January 2018

10 JPIs since 2008



Water Challenges for a Changing World



Healthy and Productive Seas and Oceans



More Years, Better Lives
- The Potential and Challenges of Demographic Change



Antimicrobial Resistance-
The Microbial Challenge
- An Emerging Threat to Human Health



Connecting Climate Knowledge for Europe



Global Urban Challenges, Joint European Solutions
Agriculture, Food Security and Climate Change



Cultural Heritage and Global Change: A New Challenge for Europe



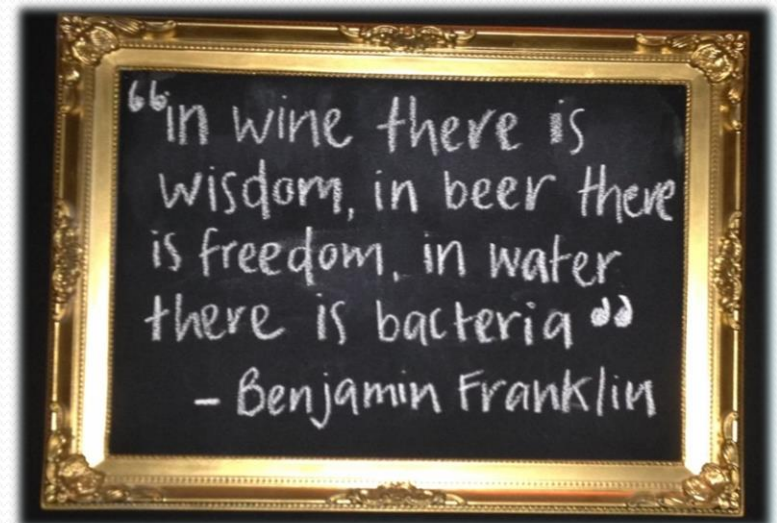
A Healthy Diet for a Healthy Life



Alzheimer and other Neurodegenerative Diseases

EU Joint Programme - Neurodegenerative Disease Research

Water will be the first mineral resource to be exhausted on the blue planet



Water as a top priority for ...

- World Economic Forum
 - since 2015, TOP 1 risk in terms of impacts to economy and society for the upcoming years

Figure 1.1: Global Risks of Highest Concern - for the Next 18 Months and 10 Years



Source: Global Risks Perception Survey 2014, World Economic Forum.

Note: Survey respondents were asked to select up to five risks of highest concern for each time frame. The percentage indicates the share of respondents who selected the specific global risk among the five risks of highest concern for each time frame. In each category, the risks are sorted by the total sum of mentions. See Appendix B for more details. To ensure legibility, the names of the global risks are abbreviated. See Appendix A for the full name and description.



SDGs

Water is crosscutter, interconnector, multiplier (© S. Rekolainen)

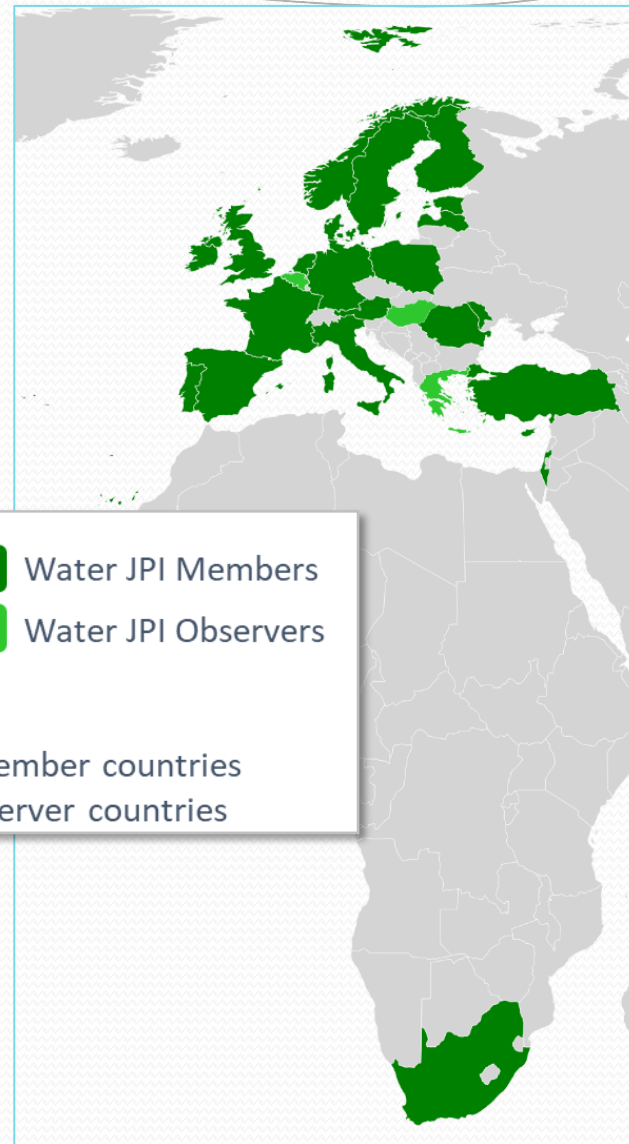
1 NO POVERTY Fundamental role of water	2 NO HUNGER 70% of all water use	3 GOOD HEALTH Water-borne diseases 1.5M deaths/y	4 QUALITY EDUCATION Education links closely to water and health etc	5 GENDER EQUALITY Much gender disparity exists around water	6 CLEAN WATER AND SANITATION 
7 RENEWABLE ENERGY 96% biomass & hydropower	8 GOOD JOBS AND ECONOMIC GROWTH Water's role is fundamental to economy	9 INNOVATION AND INFRASTRUCTURE Water infrastructure is essential	10 REDUCED INEQUALITIES Water and healthy environment for all	11 SUSTAINABLE CITIES AND COMMUNITIES Water services and clean environment is essential	12 RESPONSIBLE CONSUMPTION Water infrastructure is essential
13 CLIMATE ACTION Most energy is transmitted by water	14 LIFE BELOW WATER Aquatic ecosystems	15 LIFE ON LAND Key role of water	16 PEACE AND JUSTICE Water has many functions	17 PARTNERSHIPS FOR THE GOALS Water is involved and important	 <p>Water is crosscutter, interconnector, multiplier</p> <p>THE GLOBAL GOALS For Sustainable Development</p>

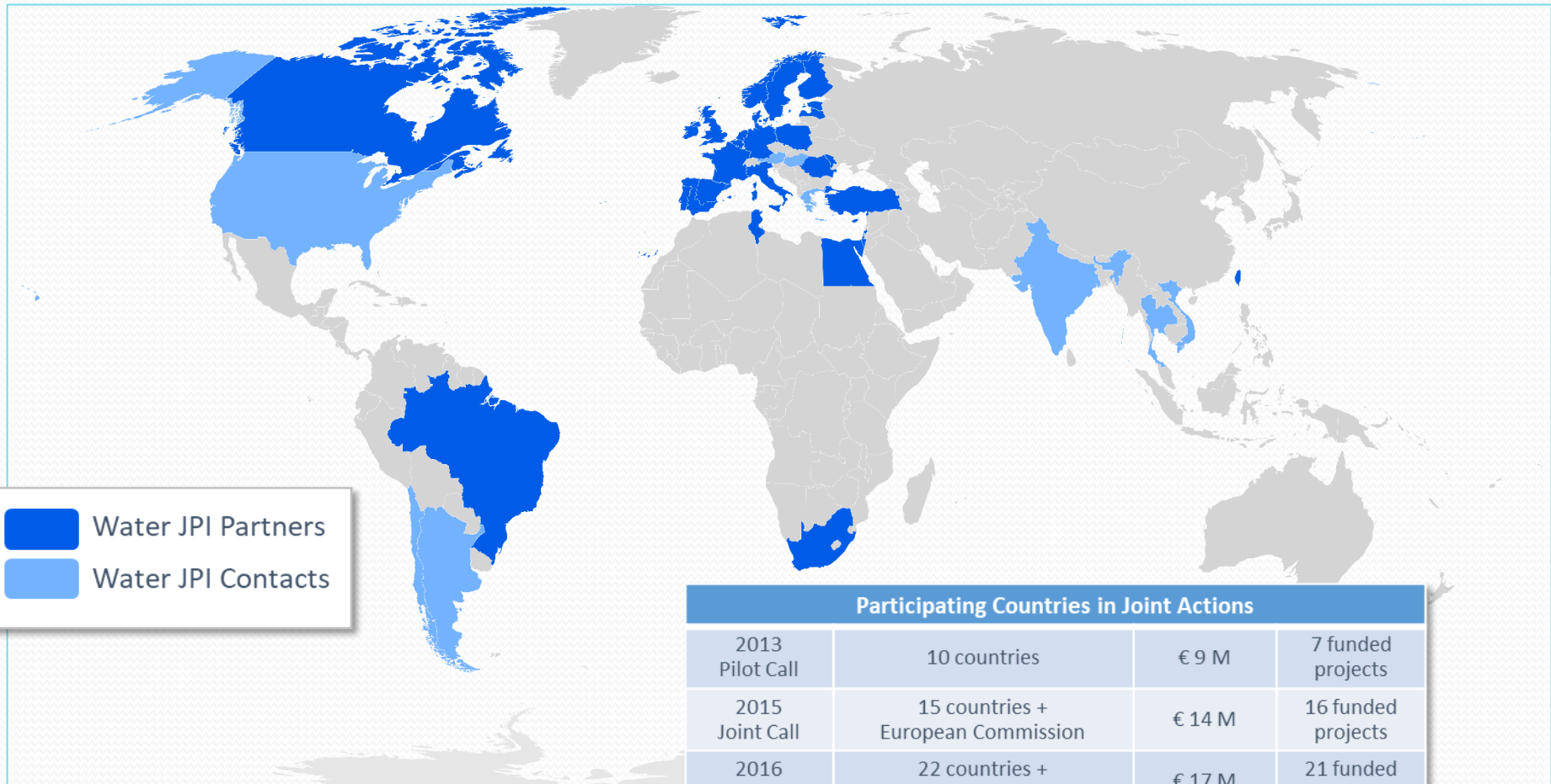


Alignment levels/approaches and enabling actions

Levels & approaches	Possible enabling / confirming actions (alignment criteria)
Strategic	Mapping of synergies, complementarities and gaps between programmes; joint foresight activities; Consensus building meetings; Joint decisions on priority areas; procedure of considering SRIAs in national programming cycles;
Funding	Ability to fund foreigners / foreign institutions located abroad; Implementation of real common pot; harmonised timing and rules of funding;
Operational	Common/harmonised rules for project reporting, monitoring and evaluation; common/harmonised rules and timing of participation;
Scientific	Development and adoption of databases and/or terminologies; development of standards in research practices and/or research outputs; shared use of research infrastructures; joint creation of infrastructures; adoption of open science and open data approaches;

Water JPI partners currently represent 88% of the European National Public RDI investment on water





Water JPI Partners
 Water JPI Contacts

Participating Countries in Joint Actions			
2013 Pilot Call	10 countries	€ 9 M	7 funded projects
2015 Joint Call	15 countries + European Commission	€ 14 M	16 funded projects
2016 Joint Call	22 countries + European Commission	€ 17 M	21 funded projects
2017 Joint Call	12 countries	€ 8,55 M estimated	-
2018 Joint Call	19 countries + European Commission	€ 17 M estimated	-





Common Vision

Strategic R&I Agenda



Research funding: Calls, TAP...



Impact measures



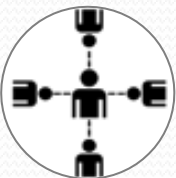
Knowledge transfer and dissemination



Data, Observatories & Infrastructures



Capacity Building



Stakeholders involvement & engagement



International Cooperation



Mapping & foresight activities



Water JPI Activities



SRIA structure

Vision Document

(5 themes)

Theme 1
Improving
Ecosystem
Sustainability
and
Human Well-
being



Theme 2
Developing
Safe Water
Systems for
Citizens



Theme 3
Promoting
Competitive
ness in the
Water
Industry



Theme 4
Implementin
g a Water-
wise Bio-
based
Economy



Theme 5
Closing the
Water Cycle
Gap
Improving
Sustainable
Water
Resources
Management



SRIA 2.0

(5 themes and 11 sub-themes)

Mapping Beyond Europe

- Mapping of RDI activities in 7 targeted countries and first contacts with research funding organisations to invite them to participate in the ERA-NET

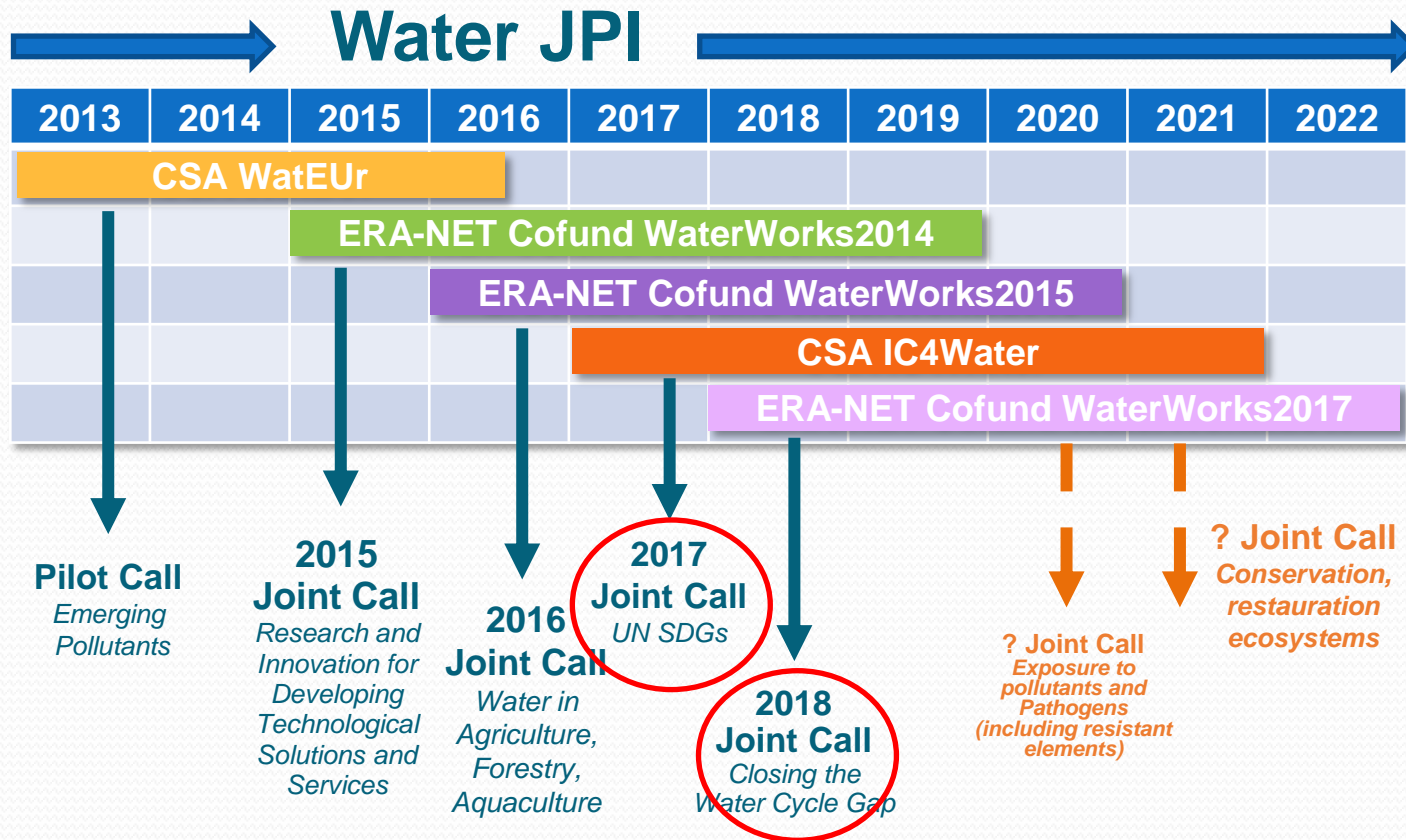
- ✓ Brazil
- ✓ Canada
- ✓ China
- ✓ India
- ✓ South Africa
- ✓ USA
- ✓ Vietnam



Timeline of Water JPI Joint Calls



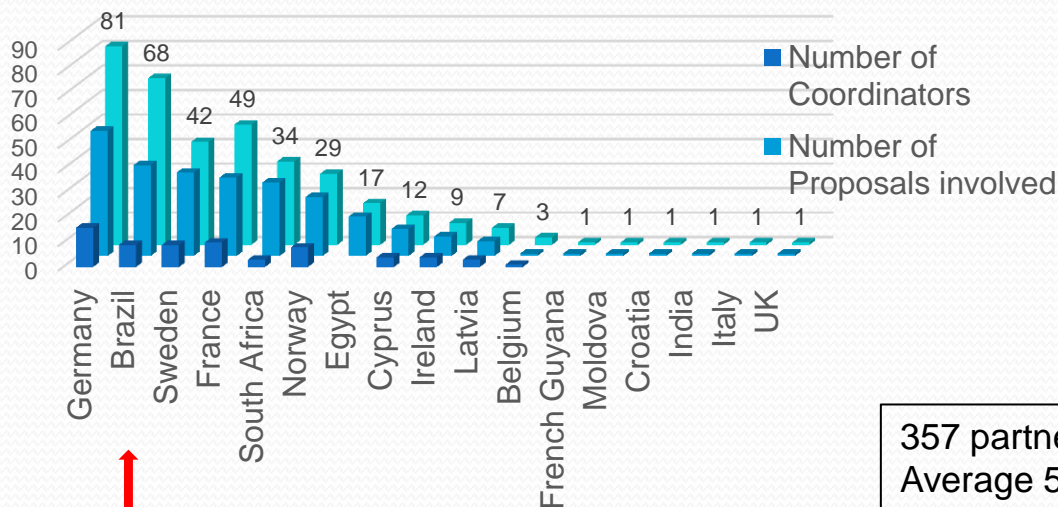
CONFAP
Conselho Nacional das Fundações
Estaduais de Amparo à Pesquisa



2017 Water JPI Joint Call – UN SDGs

Step 1 General Statistics

67 submitted pre-proposals



Country/Region	Funding Partner Organisation	National Contributions (tentative budget, EURO)
Belgium	F.R.S.-FNRS	200,000
Brazil	CONFAP	1,870,000
Cyprus	RPF	400,000
Egypt	ASRT	250,000
France	ANR	1,000,000
Germany	BMBF	2,000,000
Ireland	EPA	500,000
Latvia	IZM	300,000
Moldova (Republic of)	CIP	100,000
Norway	RCN	1,000,000
South Africa	WRC	130,000
Sweden	FORMAS	800,000

357 partners in total;
 Average 5,3 partner/project
 Total requested budget €59,6M;
 Average project size: €0,89M
 -> 10-11 funded projects

Mapping BR-EU cooperation in water challenges

2014

Population: 201 M inhabitants

GDP: 1,645 G €

Research Question	Publications			Publications Respect Europe (%)		
	Number	Per M inhab.	Per G € GDP	Number	Per M inhab.	Per G € GDP
Q1: Ecosystems	1,900	9	1	6	20	56
Q2: Citizens	2,522	13	2	7	23	66
Q3: Industry	6,696	33	4	5	16	47
Q4: Bioeconomy	1,487	7	1	10	32	92
Q5: Gap	1,251	6	1	6	20	56
All	12,742	63	8	10,00	30	87

2017

Population: 208,7 M inhabitants

GDP: 1,460 G €

Research Question	Publications			Publications Respect Europe (%)		
	Number	Per M inhab.	Per G € GDP	Number	Per M inhab.	Per G € GDP
Q1: Ecosystems	3,141	15	2	7,25	24	77
Q2: Citizens	3,932	19	3	8,28	28	88
Q3: Industry	10,189	49	7	6,19	21	66
Q4: Bioeconomy	2,343	11	2	11,88	40	127
Q5: Gap	2,195	11	2	7,58	25	81
All	19,771	95	14	11,00	37	118

first publication of international patent application between 2014-2017



In the world	%	In Europe (MS ¹ +AC ²)	%
EU (MS+AC)	16.4	FRANCE	3.0
USA	8.9	UK	2.5
CANADA	1.6	GERMANY	2.3
ARGENTINA	1.1	SPAIN	2.2
AUSTRALIA	1.1	PORTUGAL	1.4

Sectoral dialogue EU-Brazil jointly tackling global water challenges

- Participation to the World Water Forum (mission of representatives from Europe)
- Contracting 2 senior experts (1 EU and 1 BR), to perform a mapping of existing global water challenges, which are common to Europe and Brazil, identification joint solutions
- Publication : Europe & Brazil water challenges mapping and sustainability perspectives
- Side Event on EU-Brazil strategic partnership on

Future cooperation opportunities with the Water JPI

Topics

- Water governance and Water management
- Urban areas: sanitation issues (in particular the tertiary level) and water reuse, water management in cities
- Water in Agriculture and industrial sectors
- Water quality
- Extreme events / natural disasters – floods and droughts
- Aquatic biodiversity assessment & ecosystems services

Feedbacks of exchanges with MCTIC,
CNPq, CAPES, CONFAP

Tools

- Mapping the Brazilian research communities
- Contribution to Joint Transnational calls
- Knowledge Hub / Synthesis center
- Sharing water resources solutions, good practices, data.



Engaging with the Water JPI - Funders

The gateway

- A unique contact point for engaging with research & innovation funding agencies in Water challenges
- Connecting to collaborative actions on global water challenges

Being an Observer

- Mutual interest
- Commitment of the external party
- Available national / regional funding (cash and/or in kind) for their participation in meetings

Becoming an Associated Partners

- Commitment to the Water JPI Vision
- A beginning of successful cooperation with the JPI activities
- Interest and means of getting involved in more than one joint action
- Formal request to join the JPI – *For GB approval / VOTE on the strategy*

Becoming a Voting Member

- Strong commitment to the Water JPI Vision and Missions (Alignment, European Networking, International Cooperation, ...)
- History of successful cooperation
- Interest and means of getting involved in more than one joint action and to contribute to the JPI strategy and functioning (fees and/or in-kind)
- Formal request to join the Governing Board – *For GB approval / VOTE on the strategy and on financial decisions*

To know more about the Water JPI...



- A website : www.waterjpi.eu
- A Newsletter – Subscribe on line!



- Social Media
- LinkedIn - Water JPI researcher forum group (1340 members)



- <https://www.linkedin.com/groups/8455262>
 - Joint Calls announcements & Networking
 - Announcement of events and activities
- A unique contact point
 - waterjpisecretariat@agencerecherche.fr
 - Phone + 33 1 78098120



Water JPI Conference

The 2nd Water JPI CONFERENCE

Emerging pollutants
in freshwater ecosystems

6-7th of June, 2018
HELSINKI, FINLAND

organized by the Academy of Finland & Water JPI

at Marina Congress Center,

<http://www.marinacongresscenter.com/en>

photo of Helsinki: Jussi Heijster

 ACADEMY OF FINLAND