



# PERSPECTIVE OF INTERNATIONAL COOPERATION WITHIN THE WATER JPI

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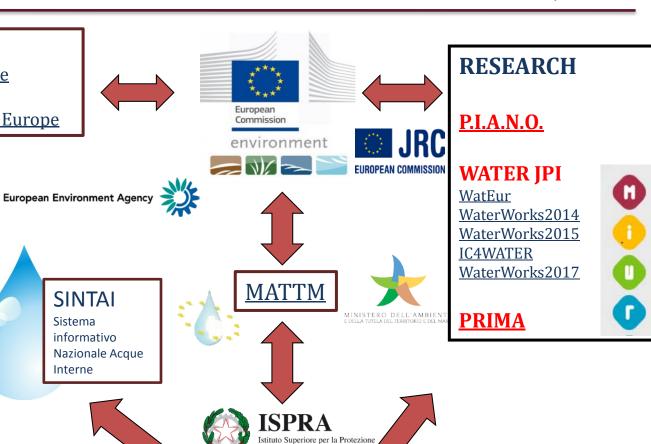
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#### **POLICY**

- <u>EU Water Framework Directive</u>
- <u>EU Floods Directive</u>
- Water Information System for Europe









e la Ricerca Ambientale





#### **EU – China Research Cooperation Roadmap**

- **1998** First Cooperation Agreement between the European Commission and China: since then cooperation has kept on growing very dynamically (FP5, FP6 and FP7).
- **2005** The Chinese Ministry of Science and Technology (MOST) and EU launched the project "Multi-stakeholder Platform for ASEM S&T cooperation on Sustainable Water Use".
- **2009** ASEM Forum on Water Resources Management was held in Changsha, Hunan Province in China where the ASEM Water Resources Research & Development Center was founded to establish a long-term partnership among Asia-Europe water resources research institutes.
- **2012** Joint Declaration for EU-China Innovation Cooperation Dialogue. A platform for dialogue was established for joint research and private sector on better management of water resources (www.cewp.org).
- **2013** Flagship initiative for research and innovation to ensure concrete, substantial and balanced joint research and innovation cooperation activities on selected priorities of common interest. **Water**





# Water Joint Programme Initiative: Water challenges for a changing world

Water

Focus on: International Cooperation





# HORIZON 2020 AND WATER JPI STRENGTHENING SYNERGIES

- ✓ H2020 the EU Framework Programme for Research and Innovation (2014-2020).
  - funding fundamental type of research in the field of water (Excellent science pillar)
  - focus on innovation-oriented investment proof of concepts, large scale demos aiming to mobilise resources for various EU and national funding instruments, market replication, inducement prizes, innovative public procurement (Societal Challenges and Industrial leadership pillars)



Horizon 2020 European Union funding for Research & Innovation

- ✓ Water JPI Joint Programming Initiative "Water Challenges for a Changing World"
  - Transnational initiative among 22 Member and 3 Observer Countries + the European Commission
  - platform for aligning and funding research to underpin the knowledge and evidence for providing solutions to water challenges
  - privileged partners for international water R&I cooperation, including by cooperating globally within Belmont Forum actions







### MAIN OBJECTIVES OF WATER JOINT PROGRAMMING INITIATIVE AND ACTIVITES TO REALIZE

#### **OBJECTIVES**

Involving water end-users for effective RDI results uptake.

Reaching effective, sustainable coordination of European water RDI.

Harmonising National water RDI agendas in Partner Countries.

Supporting European leadership in science and technology.

#### **TOOLS**

Joint Call Management

Mapping RDI activities (Questionnaire, Interview, Desk Research)



Alignment of Research Agendas (SRIA Document and Implementation Plan)

**International Cooperation** (MoUs, Call Partnerships...)



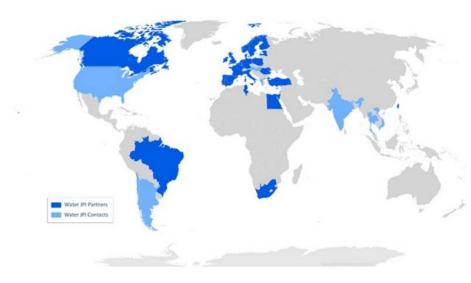




#### Water JPI Partnership

The <u>international cooperation</u> dimension of the first implementation actions of the Water JPI include Israel, Norway, the Republic of Moldova, South Africa and Turkey (full Water JPI members), as well as two additional Horizon 2020 associated countries (Egypt and Tunisia) and three international partners (Brazil, Canada and Taiwan).

#### **NEW PARTNERSHIP MAP**









**Discussion with** 

Chile

China

India

USA

Mediterranean countries (PRIMA)

Israel

Moldova

Norway

**Turkey** 

Canada

**Taiwan** 

**Egypt** 

**Tunisia** 

**Brazil** 

**Argentina** 

**Thailand** 

**Vietnam** 

Latvia

**South Africa** 

2014

**Non EU Water JPI Members** 

**H2020 Associated Countries** 

**Third countries** 

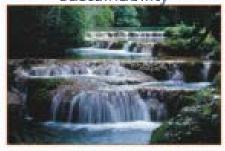
2018





### 5 themes

Maintaining ecosystem sustainability



Developing safe water systems for the citizens



Promoting competitiveness in the water industry



Implementing a water-wise bioeconomy



Closing the water cycle



For each theme, analysis of socioeconomic, environmental and policy impact





#### CONNECTIONS BETWEEN WATER JPI SRIA AND THE CHINESE RDI PROGRAMMES

SRIA Questions	Rate* (1 to 6)	Brief motivation of the rating (*1= weak connection; 6= high connection)
Sustainable ecosystems	6	China must give high priority to make ecological progress and incorporate it into all aspects and the whole process of advancing economic, political, cultural, and social progress.
Developing safe water systems for the citizens	5	China restricts pollutants in water function areas. Water quality standards of the main water functional zones in rivers and lakes must reach 80% by 2020, and 95% by 2030.
Promoting competitiveness in the water industry	3	In 2012 the Chinese government released its policy document on implementing the most stringent water resources management system to support the lasting and sustainable development of the country.
Implementing a water- wise bio-based economy;	6	Specifying the control indicators of the "Three Red Lines" China will control water use efficiency. Water consumption per RMB 10,000 industrial value must be below 65 m³ by 2020, and 40 m³ by 2030. Coefficient of effective farmland irrigation water use must be higher than 0.55 by 2020, and 0.6 by 2030.
Closing the water cycle gap	6	Specifying the control indicators of the "Three Red Lines", China will control the development and utilization of water resources. The total quantity of water consumption nationwide must be below 6700 108 m³ by 2020, and 7000 108 m³ by 2030. Priorities are: to accelerate transformation of the water use pattern under the guidance of the sustainable development concept; to develop and utilize water resources in a scientific and rational manner centering around total quantity control; to construct a water-saving society on all fronts with a view to improving water use efficiency; to reinforce protection and restoration of water resources with management of water function areas as the vehicle Reforms and innovation are the driving force for improvement of water resources management systems and mechanisms.

Source: *Mapping Beyond Europe Report*, 2014





## OUR WISHES, LONG-TERM COOPERATION PARTNERSHIP AGREEMENTS

#### On Joint Actions such as

- Shared strategic research agenda
- Joint calls: IC4Water call on International Cooperation
- Demonstration programmes or launch of demonstration platforms
- Access to key infrastructures, observatories
- Knowledge hub (Including development of policy briefs, innovation factsheets)
- Joint events / conferences / workshops / webinars
- Brokerage events / roadshows
- Training and capacity building
- Mobility schemes (for researchers, for research programmes managers)
- Connections with leading research networks (e.g. COST Actions) and
   Platforms (e.g. China-Europe Water Platform)





### Thank you for your attention!

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