

General Introduction on the Water JPI & Strategic Research & Innovation Agenda



Dominique Darmendrail
ANR
Water JPI Coordinator

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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

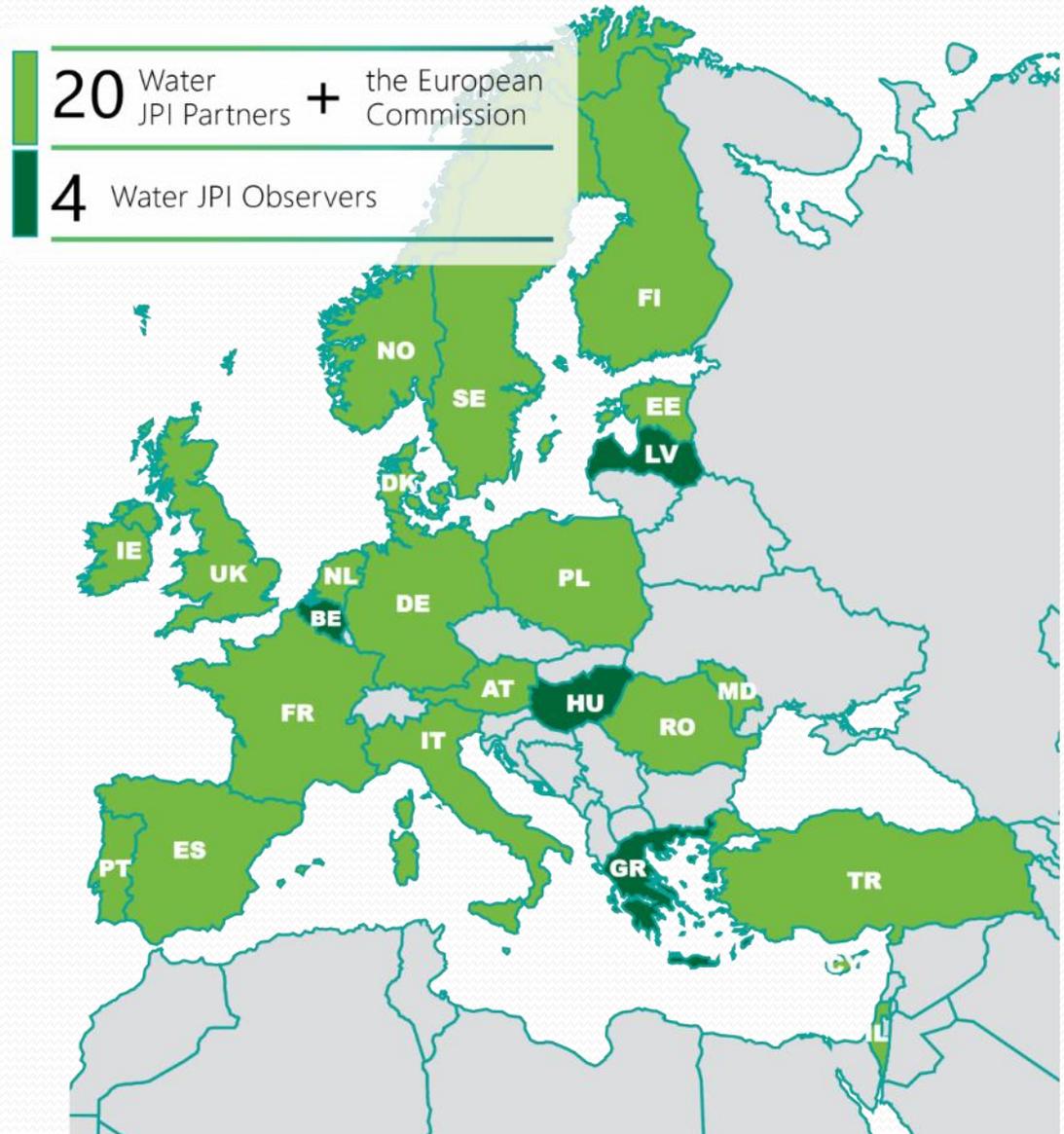


A Healthy Diet for a Healthy Life



Alzheimer and other Neurodegenerative Diseases

Water JPI Partner Countries



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

Thematic Activities



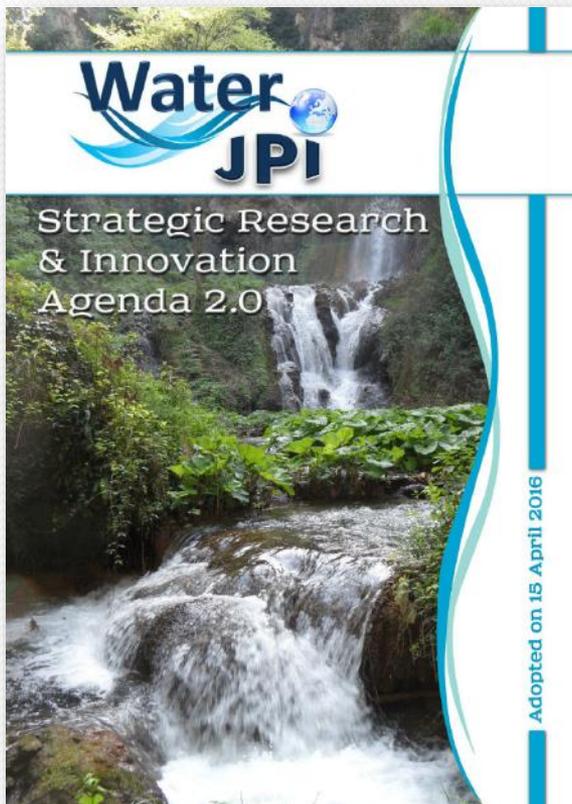
Water JPI Horizontal Activities

- Strategy Activities
(Foresight, Consultative workshop, Consultation)
- Mobility and Infrastructures
- Horizontal Activities Workshops

- Towards a common vision
- Updating the SRIA
- Enlarging the Water JPI membership
- Engaging stakeholders
- International cooperation
- Updating the mapping
- Outreach & dissemination

SRIA

Strategic Research and Innovation Agenda



- Conceived as a participatory, inclusive, shared and forward-looking strategic document that lays out Research, Development and Innovation (RDI) needs in Europe in the field of water
- Conceived as an instrument to guide European research and innovation

➔ **Objective: to be the European reference document on water stakes that will frame H2020 calls, etc.**

SRIA structure

Vision Document

(5 themes)

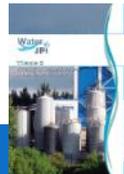
Theme 1
Improving
Ecosystem
Sustainability
and Human
Well-being



Theme 2
Developing
Safe Water
Systems for
Citizens



Theme 3
Promoting
Competitiveness
in the
Water
Industry



Theme 4
Implementing
a Water-wise
Bio-based
Economy



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



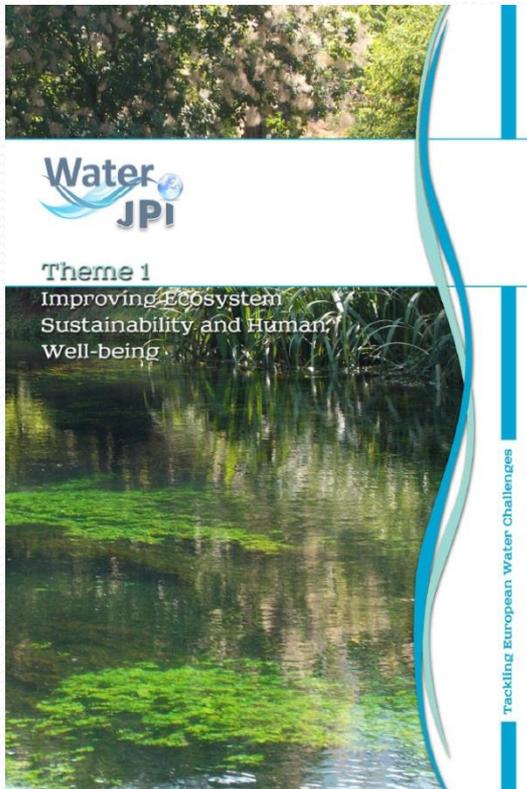
SRIA 2.0

(5 themes and 11 sub-themes)

Theme 1 - Improving Ecosystem Sustainability and Human Well-being

Subthemes

- ❑ 1.1 Developing approaches for assessing and optimising the value of ecosystem services
- ❑ 1.2 Integrated approaches: developing and applying ecological engineering and ecohydrology
- ❑ 1.3 Managing the effects of hydro-climatic extreme events



Social



Public health and protection from extreme weather events



Economic



Market failures



Technological



Ecological engineering and Early Warning Systems



Environmental



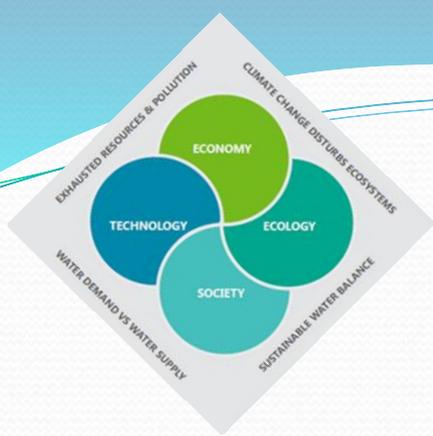
Ecosystem services concept and water management...
Relevant to EU Regulations & Policies (EU Water Blueprint, Water Framework Directive..) and to UN Sustainable Development Goals (6, 2, 14 and 15)



Policy

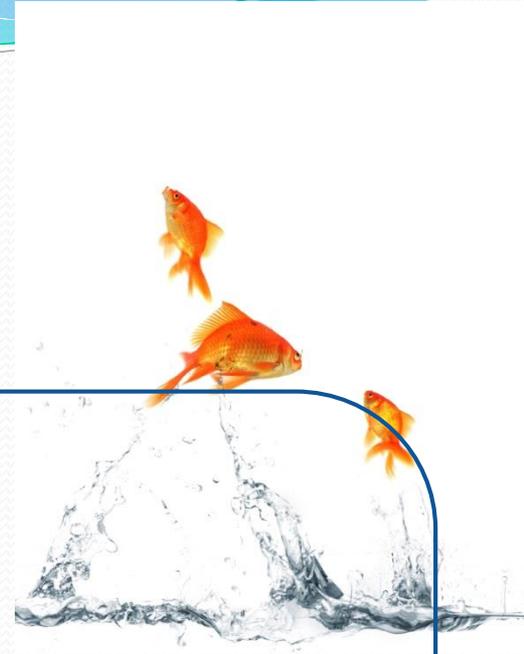


Bringing forward the cross cutting/horizontal issues in the SRIA in a more holistic/integrated manner and highlighting the links/synergies between some of the needs within the SRIA



	Theme 1 Improving Ecosystem Sustainability and Human Well-being	Theme 2 Developing Safe Water Systems for Citizens	Theme 3 Promoting Competitiveness in the Water Industry	Theme 4 Implementing a Water-wise-Bio-based Economy	Theme 5 Closing the Water Cycle Gap
Ecosystems' ecological status, resilience, services and restoration	+++	+	+	+	++
Pollutants: risks and remediation	+	+++	++	++	+
Water and energy	+	+	+++	+	++
Water and agriculture	+	+	+	+++	++
Water and citizens	+	++	+	+	+++
Water and climate	++	++	+	+	++
Water data (monitoring, citizen participative sciences)	++	++	++	++	+++
Sensors, technologies and smart systems	++	++	+++	++	++
Governance and acceptance Removing barriers (legislation, funding schemes, governance, acceptance)	+	+	+++	++	+++
Developing new tools combining in situ and remote sensing data: models	+	+	+	+++	+++
Integration of water policies in the EU	++	++	++	++	++

Contact Details



waterjpisecretariat@agencerecherche.fr

dominique.darmendrail@agencerecherche.fr