



Climate action, Environment, Resource Efficiency and Raw Materials

Short report on current developments in the relevant initiatives and networks:

WATER JPI Strategic Research & Innovation Agenda (SRIA) update

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Introduction

Task 4.3 “Collaboration with networks/multilateral programmes (JPI, EIP)” within “WP4-Stakeholder Outreach” of the NCPs CaRE project aims at enhancing the “Collaboration with Networks/Multilateral initiatives”. To achieve this objective, the Task collects information on these relevant Networks and Initiatives and keeps the information updated with the last modifications. Like this, the first document (“Report on relevant initiatives and networks and their organograms”, Deliverable 4.3) was launched (August 2015) and can be found on [NCPs CaRE web page](#). However, instead of updating the Deliverable 4.3 every time there is a major change, the Task undertakes to write short notes/analysis that will be disseminated to the SC5 NCPs through the newsletter or the intranet. At the end of the project, the thematic notes will be compiled into a new and final deliverable due January 2019.

The following initiatives and networks have been identified which will be monitored (see table 1).

Table 1: Thematic area & initiatives to be monitored (2016 – 2017)

Thematic area	Initiatives to be monitored
WATER	JPI Water, EIP water, ETP Water, JPI Oceans, WssTP
CIRCULAR ECONOMY	PPP SPIRE, PPP FOF, PPP BBI, ETP SusChem, Implementation of CE package, EcoAp
RAW MATERIALS	EIP Raw Materials, KIC raw Materials
RESILIENT CITIES	JPI Urban, Climate KIC
Horizontal issues linking SC5 and existing networks	Initiatives taken at PC Levels



The objective of this report is to make an overview of the **changes made in the Water JPI Strategic Research & Innovation Agenda V1.0**, focusing on modifications relevant for NCPs activities.

Why is this important for SC5 NCPs?

- ✚ These changes have a direct influence on the next **SC5 Work Programme 2017-2019/20**
- ✚ JPI SRIA objectives are considered in H2020 Work Programs, so the NCPs must alert their clients in order to take them into consideration when preparing their proposals.
- ✚ The **joint calls** that will be launched in the future under the JPI instrument will be influenced by the changes.

Towards the Strategic Research and Innovation Agenda V2.0

- ✚ The preliminary version of the Water JPI SRIA (SRIA 0.5) was adopted in May 2013. This version detected a number of relevant RDI needs and objectives for water but **no prioritisation was attempted**.
- ✚ After a public consultation and experts stakeholder workshop, the Water JPI SRIA 1.0 was launched in October 2014. This analysis allowed the identification of new RDI needs, **but still without prioritisation**.
- ✚ During 2014 and 2015, the [Water JPI Advisory Boards](#) and the general public have been invited to provide their input on the contents of the agenda and to support the identification of **the prioritisation of Water RDI needs** with a second stakeholder workshop and online public consultation. As a result, the SRIA 2.0 was officially adopted by the [Water JPI Governing Board](#) in **April 2016**.



The content of the SRIA 2.0

- ✚ The drivers and multidisciplinary challenges to be addressed remains the same as in the [Vision Document \(20 April 2011\)](#).

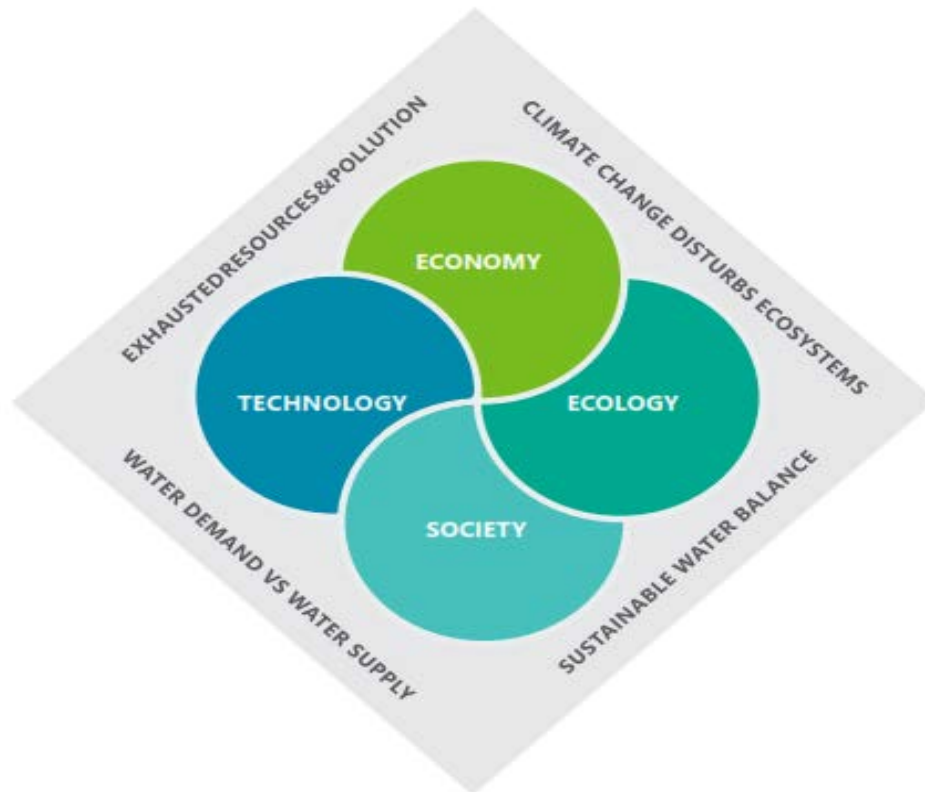


Figure 1- Drivers and Multidisciplinary Challenges to be addressed

- ✚ The Vision Document of 2011 identified five main themes which still constitute the core of the [SRIA](#):
 - [Maintaining Ecosystem Sustainability](#)
 - [Developing Safe Water Systems for Citizens](#)
 - [Promoting Competitiveness in the Water Industry](#)
 - [Implementing a Water-wise Bio-based Economy](#)
 - [Closing the Water Cycle Gap](#)



- ✚ In this latest version of the [SRIA \(V. 2.0 2016\)](#), these five themes have been further developed and divided into 11 RDI subthemes (see table 2).

Table 2: SRIA (V 2.0 2016) with its themes and RDI subthemes

Theme	Subtheme
Improving Ecosystem Sustainability and Human Well-being	Developing Approaches for Assessing and Optimising the Value of Ecosystem Services
	Developing and Applying Ecological Engineering and Ecohydrology
	Managing the Effects of Hydro-climatic Extreme Events
Developing Safe Water Systems for Citizens	Emerging Pollutants and Emerging Risks of Established Pollutants: Assessing their Effects on Nature and Humans and their Behaviour and Opportunities for their Treatment
	Minimising Risks Associated with Water Infrastructures and Natural Hazards
Promoting Competitiveness in the Water Industry	Developing Market-Oriented Solutions for the Water Industry
	Enhancing the Regulatory Framework
Implementing a Water-Wise Bio-Based Economy	Improving Water Use Efficiency for a Sustainable Bio-Economy Sector
	Reducing Soil and Water Pollution
Closing the Water Cycle Gap-Improving Sustainable Water Resource Management	Enabling Sustainable Management of Water Resources
	Strengthening Socio-economic Approaches to Water Management

- ✚ The SRIA 2.0 has been structured based on these five themes and cross-cutting issues. This “two-dimensional” structure helps the reader to follow the identified knowledge gaps within each theme without ignoring cross-cutting issues. Figure 2 shows how a number of key water-related issues are addressed in each of the five themes of the SRIA. Some of the issues are relevant to all five themes of the Water JPI and even other JPIs¹. The relevance of the horizontal needs is based on the results of the various consultation exercises.

¹ [Annex III: Synergies Between the Water Joint Programming Initiative and Other Joint Programming Initiatives \(page 85-86\)](#)



THEMES 1-5						
	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 resource management	
HORIZONTAL RDI NEEDS	Ecosystems' ecological status, resilience, services & restoration	Very relevant	Somewhat relevant	Somewhat relevant	Somewhat relevant	Relevant
	Pollutants: risks and remediation	Somewhat relevant	Very relevant	Relevant	Relevant	Somewhat relevant
	Water and energy	Somewhat relevant	Somewhat relevant	Very relevant	Somewhat relevant	Relevant
	Water and agriculture	Somewhat relevant	Somewhat relevant	Somewhat relevant	Very relevant	Relevant
	Water and citizens	Somewhat relevant	Relevant	Somewhat relevant	Somewhat relevant	Very relevant
	Water and climate	Relevant	Relevant	Somewhat relevant	Somewhat relevant	Relevant
	Water data (monitoring, citizen participative sciences)	Relevant	Relevant	Relevant	Relevant	Very relevant
	Sensors, technologies and smart systems	Relevant	Relevant	Very relevant	Relevant	Relevant
	Governance and acceptance, removing barriers (legislation, funding schemes, governance, acceptance)	Somewhat relevant	Somewhat relevant	Very relevant	Relevant	Very relevant
	Developing new tools combining in situ and remote sensing data: models	Somewhat relevant	Somewhat relevant	Somewhat relevant	Very relevant	Very relevant
	Integration of water policies in the EU	Relevant	Relevant	Relevant	Relevant	Relevant

Figure 2- Priorities

- The expected impacts for every of the main five themes have contributed to the four multidisciplinary challenges (fig. 1) and are relevant for the implementation of the EU Regulations & Policies and the [UN Sustainable Development Goals \(SDGs\)](#).



References

- [WATER JPI WEB PAGE](#)
- [Vision Document \(20 April 2011\)](#)
- [WATER JPI SRIA 2.0, short version](#)
- [WATER JPI SRIA 2.0](#)
- [EU Policies](#)
- [EU Regulations](#)
- [Sustainable Development Goals \(SDGs\)](#)

Figures²

- Figure 1- Drivers and Multidisciplinary Challenges to be addressed
- Figure 2- Priorities

² Source of figures: [WATER JPI SRIA 2.0, short version](#)

