



**Water Works 2016-2020 in Support of the Water JPI
ERA-NET Cofund Action**



**WATER-3-2015: Stepping up EU research and
innovation cooperation in the water area**

D 5.3

Publication of information

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Web-Site Address:	http://www.waterjpi.eu/
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List of Abbreviations

AAs : Additional Activities
 CS: Call Secretariat
 QMP: Quality Management Plan
 FACCE-JPI: Joint Programming Initiative on Agriculture, Food Security and Climate Change
 FPOs: Funding Partner Organisations
 GDPR: General Data Protection Regulation 2016/679H2020: Horizon2020
 JPI: Joint Programming Initiative
 JTC: Joint Transnational Call
 OA&OD: Open Access & Open Data
 OpenAIRE: Open Access Infrastructure for Research in Europe
 PDER: Plan for Dissemination and Exploitation of results
 RDI: Research, Development & Innovation
 R&I: Research & Innovation
 SRIA: Strategic Research and Innovation Agenda
 Water JPI: Joint Programming Initiative on Water Challenges for a Changing World
 WPs: Work Packages

Funding Partners Organisations

AEI: Agencia Estatal e Investigación
 AKA: Academy of Finland
 ANR: Agence National de la Recherche
 ASRT: Academy of Scientific Research and Technology
 BMEL: Bundesministerium für Ernährung und Landwirtschaft
 CDTI: Centro para el Desarrollo Tecnológico Industrial
 EPA: Environmental Protection Agency
 LNV: Ministry of Agriculture, Nature and Food quality
 FCT, I.P.: Fundação para a Ciência e a Tecnologia
 FORMAS: Swedish Research Council Formas
 FNR: Fachagentur Nachwachsende Rohstoffe e.V.
 FNRS: Fund for Scientific Research
 IFD: Innovation Fund Denmark
 IRESA: Institution de la Recherche et de l'Enseignement Supérieur Agricoles
 MUR: Ministry for Education, University and Research
 MoAF: Ministry of Agriculture and Forestry
 MOST: Ministry of Science and Technology
 NARD: The National Agency for Research and Development
 NCBR: Narodowe Centrum Badań i Rozwoju
 RCN: The Research Council of Norway
 NSERC: Natural Sciences and Engineering Research Council of Canada
 RIF: Research and Innovation Foundation
 TUBITAK: The Scientific And Technological Research Council of Turkey
 UEFISCDI: Executive Agency for Higher Education, Research, Development and Innovation
 Funding
 VLAIO: Agentschap voor Innoveren en Ondernemen
 WRC: Water Research Commission

¹ Due to partial takeover, MINECO was replaced by AEI

Executive Summary

WaterWorks2015 has been designed to support the implementation of the Joint Programming Initiative “Water Challenges for a Changing World” (Water JPI). WaterWorks2015 responds to the Horizon2020 (H2020) Societal Challenge 5 2015 Call Topic Water-3 [2015]: Stepping up EU research and innovation cooperation in the water area. The project started on the January 2016 and will end on December 2020.

The strategy behind the **WaterWorks2015** work plan is to contribute to the development of the Water Joint Programming Initiative (Water JPI) and JPI on Agriculture, Food Security and Climate Change (FACCE-JPI) by implementing a Co-funded Call for proposals and by developing [Additional Activities](#) (AAs) aiming at supporting the Water JPI strategy and implementation. These AAs can be relevant for the FACCE-JPI, in particular, for its water-related activities. The work plan rests upon the following principles:

Taking advantage of the complementary capacities and skills of all **WaterWorks2015** consortium members, derived from their previous experience in the two JPIs, in water-related Research, Development & Innovation (RDI) programme ownership or management, and in previous ERA-NETs;

Using a certain degree of flexibility in the design, particularly in the AAs. The five-year duration of this initiative will require fine-tuning of the **WaterWorks2015** activities during its life cycle;

- Respecting the variable geometry principle in regards to the Water JPI implementation activities; and
- Simplifying the operational aspects of the Water JPI implementation: **WaterWorks2015** has the aim to contribute to developing simple procedures for the Water and FACCE JPIs.

The **WaterWorks2015** activities are organised into seven Work Packages (WPs). WPs 1 to 4 refer to the Co-funded Call and the management of the consortium, whereas WPs 6 and 7 refer to AAs, which are wider in scope than the Co-funded Call and will support the overall implementation of the Water JPI. WPs 1 and 5, dedicated respectively to the coordination and the communication, are horizontal, and are related to all the WPs.

WP5 has foreseen the realisation of the following deliverables:

1. Call announcement web-materials (October 2016) ;
2. ERA-NET Cofund booklet on funded projects (August 2017) and the [online version of WaterWorks2015 funded projects booklet](#);
3. Publication of information on each funded project, containing data on each consortium and its participants, and an overview of the project results collected using the Open Access & Open Data procedures for making them available via the dedicated webpages (December 2020)

This document is the **WaterWorks2015 Deliverable 5.3: Publication of information**. It contains information on each funded project, including data on each consortium and its participants. An overview of the dissemination and communication realised during the life of the projects has been described including the communication and dissemination Indicators (included Water JPI and FACCE website).

1. Introduction

This document has been prepared in the frame of Work Package 5 (WP5) Communication, Exploitation, and Dissemination of the results from the co-founded call of **WaterWorks2015**.

The main objectives of the WP5 include:

- a. To communicate **WaterWorks2015** activities;
- b. To implement the **WaterWorks2015** Plan for Dissemination and Exploitation of Results;
- c. To implement the web services in support of the Call management; and
- d. To set up a contact point on Open Access and Open Data (OA&OD)

According to the objectives of the WP5, publication of information related to **WaterWorks2015** started since the launch of the Call and was maintained during the life of the ERA-NET. Different communication tools to better carry out this commitment were used, they are described in the previous deliverables realised, included the Plan for Dissemination and Exploitation of the results (PDER).

The report gives an overview of all information published through the main Water JPI communication tools (website, e-Newsletter, Social Networks) and provides indicators on the impact of the Communication and dissemination activities of **WaterWorks2015**.

Regarding the RDI funded projects, information on each consortium and its participants is collected on each funded project.

In addition, since the first results of the RDI funded projects have been achieved, the projects' coordinators have been encouraged to publish them using the Water JPI Open Data & Open Access platform. The report gives an overview of all data and results published at 30 September 2021.

The implementation of the online OD&OA tool represented a challenge for Water JPI Initiative for dissemination of results of the funded projects. It is in compliance with the F.A.I.R. - principles - Findable, Accessible, Interoperable, Reusable. Furthermore, during the implementation of the tool some contacts were held with the OpenAire² help desk service to integrate the respective platforms and ensure data interoperability. These aspects could be deepened for future dissemination activities relating to the Water JPI ERANETs currently ongoing which envisage the disclosure of projects results.

At the beginning of 2021 the management of the OD&OA tool has been transferred from ISPRA to ANR, some technical problems have delayed the publication of the results by the researchers. The missing information may be published later as the tool will remain open and accessible even after the closure of the ERANET. In addition the tool contains features that allow to create graphs on the number and type of published results. A recommendation for the current platform administrator is to use the indicators for future communication activities by the Water JPI Initiative in terms of results achieved through the ERANETs.

As the the 2016 Joint Call topic "Sustainable management of water resources in agriculture, forestry and freshwater aquaculture sectors" partially covers some of the five priority themes described in the [Water JPI' Strategic Research and Innovation Agenda \(SRIA\)](#) and some of the [FACCE JPI' Strategic Research Agenda \(SRA\)](#), a section of the document is dedicated to the communication and dissemination activities developed by FACCE JPI.

² <https://www.openaire.eu/>

2. The Joint Call 2016 WaterWorks2015

In February 2016, the Water JPI launched a Joint Call in the frame of the ERA-NET Cofund **WaterWorks2015** to support research on the sustainable management of water resources in agriculture, forestry and freshwater aquaculture sectors.

Supported by 25 national / regional funding organisations from 22 countries, this call was co-funded by the European Commission and covered the following challenges:

- Challenge – 1: Increasing the efficiency and resilience of water uses
- Challenge – 2: Monitoring and reducing soil and water pollution
- Challenge – 3: Integrating social and economic dimensions into the sustainable management and governance of water resources

The 2016 Joint Call resulted in the selection of 21 transnational collaborative RDI projects (out of 197 pre proposals submitted), involving 23 Funding Partner Organisations (FPOs) from the 22 countries participating in the Call.

The 2016 Joint Call topic “Sustainable management of water resources in agriculture, forestry and freshwater aquaculture sectors” partially covers some of the five priority themes described in the [Water JPI' Strategic Research and Innovation Agenda \(SRIA\)](#) and some of the [FACCE JPI' Strategic Research Agenda \(SRA\)](#).

2.1 RDI projects selected for funding and main information

The main information on RDI funded projects have been collected after the [kick off meeting](#) that was held in Stockholm (Sweden) on the 6th of April 2017. The program, the master presentation of the kick off, the presentation of the projects are available on the Water JPI website³.

In addition, the [booklet of the RDI funded projects](#) has been published in 2016 on the Water JPI website and it has been continuously updated upon request of the project coordinators.

Water JPI has taken technical and organisational measures to ensure the compliance with the General Data Protection Regulation (GDPR) 2016/679 and the [Water JPI Privacy Policy](#). All information were collected and processed with the agreement of the project researchers for Communication and Dissemination purposes only, in the frame of the activities of WaterWorks2015 and Water JPI. **Table 1** summarises the RDI projects selected for funding under the 2016 Joint Call. The main information collected included the contacts of the coordinators and the principal investigators of the partners, abstract of the project, structure, implementation, and main expected outcomes. Following the final review of the funded projects, the booklet is being updated with the main public outputs of the projects to better disseminate the produced knowledge. The booklet is also linked to the data repository of the project on the Water JPI Open Access&Open Data platform.

Table 1 – RD projects funded under the 2016 Joint Call (alphabetical order)

³ <http://www.waterjpi.eu/joint-calls/joint-call-2016-waterworks-2015/funded-projects-under-the-2016-water-and-facce-jpi-joint-call>

Project Acronym	Project Title	Coordinator	Participating countries
<u>ABAWARE</u>	Advanced biotechnology for intensive – freshwater aquaculture wastewater reuse	Norway	Norway, Germany, Finland, Ireland, Romania, Sweden
<u>AgriAs</u>	Evaluation and management of As contamination in agricultural water and soil	Finland	Finland, Germany, France, Sweden
<u>AGRINuPeS</u> ⁴	Integrated monitoring and control of water, nutrients and plant protection products towards a sustainable agricultural sector	Portugal	Portugal, Spain, The Netherlands, Sweden, Turkey
<u>AgWIT</u>	Agricultural Water Innovations in the Tropics	Canada	Canada, Germany, Brazil, Costa Rica, Denmark, Sweden, Taiwan
<u>AquaVal</u>	Valorisation of water use in aquaculture using multi trophic systems	Portugal	Portugal, Spain, Italy
<u>AWARE</u>	Assessing the fate of pesticides and wastewater-borne contaminants in agricultural crops and their environmental risks	Spain	Spain, Germany, France, Norway
<u>CLEARANCE</u>	Circular Economy Approach to River pollution by Agricultural Nutrients with use of Carbon-storing Ecosystems	Poland	Poland, Germany, Denmark
<u>ECOSAFE FARMING</u>	Development and testing of a novel photocatalytic system for efficient cogeneration of clean water and hydrogen for ecosafe agriculture	Turkey	Turkey, Germany, Canada, Spain
<u>Eutro-Sed</u>	Eutrophication hotspots resulting from biogeochemical transformations and bioavailability of phosphorus in the fluvial suspended sediment of geologically contrasting agricultural catchments	Ireland	Ireland, Canada, Sweden,
<u>FORWARD</u>	Operational monitoring and Forecasting system for Resilience of agriculture and forestry under intensification of the WAtER cycle: a big Data approach	Spain	Spain, Belgium, Denmark
<u>IMPASSE</u>	Impacts of MicroPlastics in AgroSystems and Stream Environments	Norway	Norway, Canada, Spain, The Netherlands, Sweden
<u>INNOMED</u>	Innovative options for Integrated Water Resources Management in the	Spain	Spain, Cyprus, France, Italy, Moldova, Portugal

⁴ Due to legal reasons, the project's original acronym was replaced by AGRINuPeS

	Mediterranean		
LEAP	Legacies of Agricultural Pollutants (LEAP): Integrated Assessment of Biophysical and Socioeconomic Controls on Water Quality in Agroecosystems	Canada	Canada, Denmark, Portugal, Sweden
OPERA	Operationalizing the increase of water use efficiency and resilience in irrigation	The Netherlands	The Netherlands, South Africa, France, Italy, Poland, Spain
POTENTIAL	Variable rate irrigation and nitrogen fertilization in Potato; engage the spatial variation	Belgium	Belgium, Germany, Denmark, The Netherlands
ProWsper	How to PROtect Water, Soil and Plants production all together	Romania	Romania, France, Portugal
REWATER	Sustainable and safe water management in agriculture: Increasing the efficiency of water reuse for crop growth while protecting ecosystems, services and citizens' welfare	Portugal	Portugal, Romania, Spain, Sweden
SMARTECOPONICS	On-site microbial sensing for minimising environmental risks from aquaponics to human health	Spain	Spain, France, Italy
SOSTPRO	SOURCE STREAM (headwater) PROtection from forest practices: what are the costs and benefits, and how best to do it?	Canada	Canada, Finland, Sweden
Water4ever	Optimizing water use in agriculture to preserve soil and water resources	Portugal	Portugal, Spain, Italy, Turkey
WaterFARMING	Improvement of water and nutrient retention and use efficiency in arable farming systems from field to catchment scale in Europe and North Africa	Denmark	Denmark, Germany, Egypt, The Netherlands, Tunisia

3. Dissemination and communication of the Joint Call and the WaterWorks2015 activities

A number of dissemination and communication tools have been employed to increase the societal impact of the call **WaterWorks2015**. In the “[Plan for Dissemination and Exploitation of results](#)” – PDER – of **WaterWorks2015**, released on 2018, the strategy and the implementation of measures envisioned to efficiently communicate about project objectives and activities in order to ensure the best exploitation of its results, all communication tools have been described. The call is a collaboration between the Joint Programming Initiatives (JPIs), Water JPI (“Water Challenges for a Changing World”) and FACCE-JPI (“Agriculture, Food

Security and Climate Change”), consequently common **WaterWorks2015** communication and dissemination have been carried out by both JPIs.

The preannouncement of the co-funded 2016 Joint Call was published on the Water JPI Webpage on January 15th, 2016 and on the FACCE JPI Webpage on January 26th, 2016. The full Call Announcement was launched on February 16th, 2016, including the publication of all relevant Call documents, instructions and Guidelines for the online submission tool.

The information on the **WaterWorks2015** co-funded Joint Call was also disseminated via Water JPI newsletter, social networks and national dissemination platforms. Additionally, some of the participating FPOs organized a national information day on water Research & Innovation, aimed at promoting the Joint Call and the **WaterWorks2015** activities. A webinar for applicants was organised on March 15th, 2016, in order to provide the researchers with additional information on the Call and to help them building the consortia. The event gathered 104 participants. A LinkedIn group “Water JPI – Researchers Forum” was also created to foster discussion and networking between Researchers. By the end of September 2021, a total of 2584 members were registered in the LinkedIn group.

More details and the description of the communication and dissemination tools used in **WaterWorks2015** are described in the [PDER](#) available on the Water JPI website.

3.1 WaterWorks2015 Communication Indicators

WaterWorks2015 activities have been regularly distributed via various Water JPIs’ dissemination tools. The Water JPI website and the [online Newsletter](#) were the most used tools to communicate **WaterWorks2015** activities. Several indicators have been identified and monitored in order to analyse the impact of WaterWorks2015 communication activities (**Table 2 and Table 3**). The indicators were monitored on a 6-month basis and considered as part included in the projects’ Quality Management Plan (QMP).

The communication indicators data were collected from 2019 to September 2021 as the indicators were not available before the redesign of the Water JPI website.

Table 2 presented the articles focusing on **WaterWorks2015** published in the online Water JPI Newsletter from 2016 to 2021. The Water JPI Newsletter was duly sent to the Water JPI mailing list with international and national contacts (indicator: number of contacts).

The number of clicks, which give indications on the interest of the **WaterWorks2015** activities, have been monitored since April 2019 after a revised version of the Water JPI website and its functionalities. The table shows a constant communication action by the e-Newsletter tool, a support of the main activities of the ERA-NET and the main topics of interest by readers (e.g. newsletters on “AQUATAP-ES Stakeholders event” with 332 clicks and “Water JPI Knowledge Hub on Contaminants of Emerging Concern (KHCEC)” with 172 clicks).

Table 2- The online Water JPI Newsletter articles focusing on WaterWorks2015

e-Newsletter articles focusing on WaterWorks2015 activities from 1 January 2016 to 30 September 2021		
Date of e-Newsletter	Topic addressed	No click
January 2016	WaterWorks2015 – 2016 Joint call	-
February 2016	Kick off meeting of the new ERANET Co-fund supporting the JPI	-
March 2016	Joint Call 2016 is open	-

April 2016	Third joint call open till 19 April 2016	-
June 2016	First step of the 2016 Joint Call	
September 2016	Third joint call open till 19 April 2016	-
October 2016	WaterWorks2015 Additional Activities Meeting	-
December 2016	Stepping up research and innovation cooperation in the water area – shortlisted and recommended for funding the 21 top research projects	-
January-February 2017	WaterWorks2015: Kick off meeting of funded projects, 6 April 2017 Sweden	-
March-April 2017	WaterWorks2015 online booklet of the 2016 joint call funded projects	-
May 2017	Kick off meeting of the WaterWorks2015 funded projects, 6 April 2017 Stockholm, Sweden	-
June-July 2017	WaterWorks2015 Workshop: Common Vision and adapting the strategies of the Water and FACCE JPI, 21 June 2017 Bonn, Germany	-
April 2018	Workshop for the Water JPI Knowledge Hub kick off on Emerging Pollutants, 15 March 2018, Stockholm, Sweden	-
June 2018	First Workshop on Mobility and Infrastructures Platform, Rome, Italy, 21 June 2018	-
April 2019	Final meeting of the AGRI-As project at the Oulanka research center, Finland	23
July 2019	Thematic Workshop on Water management and uses – nexus with climate and food, Dushanbe 24-26th June 2019	26
July 2019	2nd Mobility and Research Infrastructures Workshop held on 6 June, 2019 – Rome, Italy	11
September 2019	1st Water JPI Thematic Annual Programming (TAP) Action Workshop Dublin, 12th June 2019	21
October 2019	2019 Workshop for Experts on “Common vision and adapting the strategies of the Water and FACCE”, Paris, France 26 September 2019	42

November 2019	WaterWorks2015 & WaterWorks2017 Annual Consortium Meetings, Bucharest	20
June 2020	Water JPI Knowledge Hub on Contaminants of Emerging Concern (KHCEC)	172
June 2020	AquaTAP_ES - Workshop 2	117
July 2020	AquaTAP_ES - Workshop 3	6
July 2020	Public Consultation for Contribution to AQUATAP-ES	46
September 2020	Call 2016 - REWATER- Sustainable and safe water management in agriculture: Increasing the efficiency of water reuse for crop growth while protecting ecosystems, services and citizens' welfare	18
September 2020	AgriAs project developed risk management for agricultural soil and water contaminated with arsenic	9
November 2020	AquaTAP-ES Workshop 3	7
November 2020	AquaTAP-ES Policy Brief: Integration of the Ecosystem Services Approach into Policy and Practice is Key for the Sustainable Management of Aquatic Resources	35
December 2020	Final conference of AGRINUPES project	35
March 2021	Water JPI AQUATAP-ES network publish paper on UN Sustainable Development Goal dedicated to SDG6	46
May 2021	Final review meeting of WaterWorks2015 (2016 Water&FACCE JPIs) Joint Call co-funded projects	35

May 2021	AQUATAP-ES Stakeholders event	332
July 2021	AQUATAP-ES Stakeholders Event: Aquatic ecosystem services on the science-policy-practice connection: challenges and opportunities	38
September 2021	AQUATAP-ES Briefing Note on Decision Support Systems	66

The **Table 3** presents a summary of the collected dissemination and communication indicators for the period from January 2019 to September 2021 and it includes information on:

- **Water JPI website** - a dedicated area to relevant information of WaterWorks2015 ERA-NET project (Governance, Participants, WPs description, etc.), the webpages related to the Joint Call and the funded projects and webpages for the Additional Activities such as the Knowledge Hub and the Thematic Annual Programming Action (TAP) were included in the Water JPI website (www.waterjpi.eu). Indicators: information updated, distribution per page of interest, country of origin.
- **Water JPI social networks** linked to the website, in particular Twitter and LinkedIn Indicators: number of likes, followers, members and discussions.
- **Water JPI newsletter** indicator: number of subscribers included in the mailing list for dissemination.
- **Water JPI mailing list** with international and national contacts. Indicator: number of contacts.
- **Press releases** addressed to international and national audiences (e.g. national and regional environmental protection agencies, public and private research organizations, public and private environmental organizations, international and European key stakeholders, international newspapers). Indicator: number of press releases published;
- **Internal Communication:** Water JPI Intranet Section dedicated to WaterWorks2015. It is located in the Water JPI website, is designed to provide repositories of several documents shared only among the project's partners, such as agendas, minutes of meetings, working papers, data bases, contact lists, etc. Indicators: WaterWorks2015 documents uploaded and downloaded, password released

Table 3 – Water JPI dissemination tools and indicators (with data available from 2019 to September 2021)

Dissemination tool	Indicator (if available/useful)	From January 2019 to September 2021 ⁵
website	Contents are kept up to date	yes
Online webpages dedicated to WaterWorks2015	Webpage fully complies with accessibility guidelines	yes
	New or Unique Visitor Conversion	2915

⁵ Data available after a revised version of the Water JPI website (December 2018) and its functionalities.

	Geographical breakdown of the visitors	see table 4
	Sources for Incoming Traffic (unique page view)	Organic: 2414 Direct: 2367 Referral and social : 385
	Interactions per Visit (Pages/Sessions)	3,7
	Return Visitor	142
	Bounce Rate	0,62
	Exit Pages	0,35
	Page Views	7964
	Average Session Duration	1min 49 seconds
	Twitter @WaterJPI	Number of posts dedicated to WaterWorks2015
Number of followers		3118
Retweets & Favourites		1773
LinkedIn Water JPI Researchers Forum Group	Number of Members	2584
	Number of discussions	584
Water JPI monthly newsletter	No. of contacts of the dissemination mailing list	5734
	No. of news dedicated to WaterWorks2015	34
	No. of clicks per items of the Newsletter	see table 2
Press releases addressed to international and national audiences	No. of Press Releases dedicated to WaterWorks2015 (the same inserted in the newsletter)	2
Internal Communication: Water JPI Intranet Section dedicated to WaterWorks2015	No. of WaterWorks2015 documents uploaded	286
	No. of WaterWorks2015 documents downloaded	325
	No. of visits	3114
Intranet - WaterWorks2015	No. of passwords released (since the beginning of the project)	105

The geographical breakdown of the visitors (**Table 4**), ranked by number of users from the same country visiting the webpage, highlights the international level of WaterWorks2015 ERA-NET project. Users from all countries involved in the funded projects visited the webpages dedicated to the joint call and to the booklet of the RDI funded projects.

Table 4 - Geographical breakdown of the visitors

Page path level 3	Country	Users	New Users	Pages/Session
		1,689 % of Total: = % (0)	1,326 % of Total: = % (107,858)	2.19 Avg for View: 2.67 (-18.05%)
1.  /impasse	 Spain	53 (2.22%)	44 (3.32%)	1.40
2.  /joint-call-2016-waterworks-2015	 Moldova	53 (2.22%)	48 (3.62%)	1.16
3.  /joint-call-2016-waterworks-2015	 Italy	43 (1.80%)	24 (1.81%)	2.08
4.  /waterfarming	 Denmark	43 (1.80%)	39 (2.94%)	1.23
5.  /opera	 Italy	33 (1.38%)	26 (1.96%)	1.95
6.  /waterworks-2015-booklet	 Italy	33 (1.38%)	3 (0.23%)	15.00
7.  /aquaval	 Portugal	30 (1.25%)	22 (1.66%)	1.76
8.  /waterworks-2015-booklet	 France	30 (1.25%)	3 (0.23%)	14.33
9.  /aware	 Spain	29 (1.21%)	18 (1.36%)	2.10
10.  /aware	 France	27 (1.13%)	10 (0.75%)	2.16
11.  /leap	 Canada	25 (1.05%)	19 (1.43%)	1.28
12.  /prowsper	 Portugal	24 (1.00%)	22 (1.66%)	1.23
13.  /waterworks-2015-booklet	 Spain	24 (1.00%)	0 (0.00%)	80.00
14.  /aware	 Germany	23 (0.96%)	20 (1.51%)	1.25
15.  /joint-call-2016-waterworks-2015	 Indonesia	23 (0.96%)	23 (1.73%)	1.00
16.  /potential	 Denmark	23 (0.96%)	18 (1.36%)	1.72
17.  /waterfarming	 Germany	20 (0.84%)	17 (1.28%)	1.25
18.  /abaware	 Ireland	19 (0.79%)	13 (0.98%)	1.70
19.  /aquaval	 Spain	18 (0.75%)	13 (0.98%)	1.53
20.  /aquaval	 Italy	17 (0.71%)	8 (0.60%)	3.40
21.  /clearance	 Poland	17 (0.71%)	11 (0.83%)	1.47
22.  /impasse	 Norway	17 (0.71%)	13 (0.98%)	1.72
23.  /joint-call-2016-waterworks-2015	 Germany	17 (0.71%)	14 (1.06%)	1.35
24.  /smartecoponics	 Spain	17 (0.71%)	11 (0.83%)	1.82
25.  /leap	 Denmark	16 (0.67%)	13 (0.98%)	1.85

3.2 FACCE- JPI communication and dissemination dedicated to WaterWorks2015

FACCE-JPI has contributed to spread information on **WaterWorks2015** using its communication tools, in particular [FACCE-JPI website](#) where there is a section dedicated to this Joint Call, the FACCE-JPI Project Wheel and the FACCE-JPI Scientific voices. The [FACCE-JPI Project Wheel](#) is a web-based system aimed to better valorise the research projects under the FACCE-JPI umbrella publishing information on the project's budget, duration, partners, contribution to FACCE-JPI core themes and to international policies, abstract, main results and publications. The WaterWorks2015 Joint Call 21 funded projects have been included in the Project Wheel and all their information has been checked and completed by the project coordinators in close collaboration with the WaterWorks2015 coordination team. Furthermore, FACCE-JPI has developed a series of monthly podcasts: the FACCE-JPI Scientific voices, in which the project coordinators are interviewed. The objective of the Scientific voices is to give the researchers the opportunity to disseminate their scientific knowledge and their projects' results to a diverse audience in an engaging and comprehensible manner. They are published in several languages – normally English and the native language of the project coordinators. To date, one project funded under the 2016 Joint Call of WaterWorks2015, AgriAs, has been the object of the Scientific voices. In the podcast "Kirsti Loukola-Ruskeeniemi or the arsenic menace", the project coordinator Kirsti Loukola-Ruskeeniemi talks about the presence of arsenic in agricultural soil and waste: what are the risks and how can we manage them?

AgriAs

Evaluation and management of As contamination in agricultural water and soil
[Joint Call 2016-WaterWorks 2015](#)

[Go to web page](#)

Total costs*	Total requested funding*	Duration
1,603,626 €	1,054,152 €	Jan. 4, 2017 — Dec. 31, 2019

Core theme

[2020-onwards · Core theme 2 · Sustainable & resilient agriculture](#)
[2020-onwards · Core theme 3 · Nutrition-sensitive agricultural production for food security](#)

Addressed policies

[Food 2030 - European Food and Nutrition Security Strategy](#)
[New DG Agri strategy on Agricultural Research and Innovation](#)
[Sustainable Development Goal 12. Responsible consumption and production](#)
[The Common Agricultural Policy \(CAP\) and CAP 2020+](#)

Coordinator

Kirsti Loukola-Ruskeeniemi

Participating organisations

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 French Geological Survey (BRGM), France
 G.E.O.S. Freiberg Ingenieuresellschaft mbH, Germany
 LEB Aquitaine Transfert, France
 Royal Institute of Technology (KTH), Sweden
 University of Oulu, Finland

Scientific voices

Jan. 17, 2022 · [Kirsti Loukola-Ruskeeniemi or the arsenic menace](#) ?

Finnish



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About

The AgriAs project developed recommendations for the management of arsenic risks for health and environment in agricultural soil and water in Europe.

The distribution of arsenic basically reflects the natural geochemical background which is lower in Nordic countries compared with the rest of Europe. We carried out detailed studies in two sites:

Figure 1: Screenshot of information published on the FACCE-JPI project wheel for the project AgriAs

4. WaterWorks2015 Open Data & Open Access

In relation to Open Data, as identified in the call announcement documents, the **WaterWorks2015** RDI funded projects were requested to submit metadata on all the resources directly generated by the project, as well as additional information on how this data will be used, if and how the data will be made accessible for verification and re-use, and how the

data will be curated and preserved. Metadata on all project resources are required to be submitted as part of the final reporting. This was done via the Water JPI Open Data & Open Access (OD&OA) platform, which is available on the Water JPI website / Water JPI OD&OA platform (also reachable from the bar menu of the Water JPI website). Also, metadata and resources generated by the projects will be maintained in the project website. The Water JPI OD&OA rules were presented to all projects at the kick-off meeting that took place on the 6th of April 2017 in Stockholm⁶, highlighting the importance of such issue.

For the above purpose, the Water JPI OD&OA platform⁷ was developed with the aim to collect the RDI funded projects by the Initiative and at the same time to disseminate the results achieved to large scale. As mentioned in the Introduction some technical problems delayed the upload of information by the researcher but when the tool was finally restored, researchers were invited to submit their data.

4.1 Main functions of the Water JPI Open Data&Open Access platform

The Water JPI OD&OA platform is open and available for public access, for the RDI projects coordinators and researchers can insert new projects and data using the assigned password. The tool has been implemented to provide information both on the RDI projects and on the resources reached during the research activities. The Water JPI OD&OA platform is intended for the long-term use of managing information on research projects and the dissemination of their results. This can be done by actively uploading and editing information on the database thorough the easy-to-use interactive webpages. The use of the Water JPI OD&OA platform will guarantee the traceability of the results of the funded projects, as well as their accessibility, it has been realised in order to guarantee the interoperability and compatibility with OpenAire. The Projects included in the platform can be collated from each system compliant with OpenAire, to respond to the indications of the European Commission (unlimited, barrier free, open access to research outputs financed by public funding in Europe).

The Water JPI OD&OA platform User guide (October 2018)⁸ is available on the Water JPI website to facilitate its access and use. Projects coordinators can upload information on the project using the “Additional Info” section:

Table 5 - Form to publish information of RD project

Additional Information of project
Acronym
Title
Website project
Project Coordinator
Partners

⁶ <http://www.waterjpi.eu/joint-calls/joint-call-2016-waterworks-2015/funded-projects-under-the-2016-water-and-face-jpi-joint-call>

⁷ <http://opendata.waterjpi.eu/> <http://opendata.waterjpi.eu/>

⁸ http://opendata.waterjpi.eu/User_guide_OD_OA.pdf

Project Identifier (Grant Agreement Number)
Start date
End Date
Created
Last updated

Other information can be added thanks to the customizable fields. In addition, non-registered users can easily reach the booklet of the WaterWorks2015 RDI projects published on Water JPI website where more information of each project is available.

Data and Resources. The results generated by the projects can be uploaded in “Data and Resources” section directly by the projects coordinators and/or by the Contact person(s) for Dissemination activities individuated among the projects partners. In **table 6** the main information related to the resources are listed. A resource can be a CSV or Excel spreadsheet, XML file, PDF document, image file and linked data.

Table 6 – Form to publish data and resources generated by the project

Additional Information of resource
Upload
Name
Description
Format
Access level
Licence
Authors
Publication Data
Version

To increase the dissemination of the projects and resources published it is possible to share them directly from the OD&OA platform using Twitter and Facebook. In addition, the tool contains features that allow to create graphs on the number and type of published results.

4.2 WaterWorks2015 Open Data&Open Access Contact Points

Although the OD&OA platform is open and available for public consultation without a password, a password supported access has been assigned to the WaterWorks2015 Projects’

Coordinators and to the person in charge of OD&OA activities among the RDI partnership projects in order to upload the research data and also to monitor the funded projects' OD&OA requirements. In **Table 7** WaterWorks2015 coordinators' project are listed, as well as the projects' partner in charge to OD&OA activities (OD&OA Contact Points).

Table 7 – WaterWorks2015 Open Data&Open Access contact point

Project Acronym	Coordinator	Projects Partner in charge to OD/OA activities
ABAWARE	Henning Sørum	Fiona Walsh
Agrias	Kirsti Loukola-Ruskeeniemi	Piia Juholin
AGRINuPeS ^L	José Boaventura-Cunha	Filipe Santos
AgWIT	Mark Johnson	Mark Johnson
AquaVal	Paula Castro	Catarina L. Amorim
AWARE	Damia Barcelo Culleres	Damià Barceló Culleres
CLEARANCE	Wiktor Kotowski	Marta Wisniewska
ECOSAFEFARMING	Huseyin Selcuk	Huseyin Selcuk
Eutro-Sed	Laurence Gill	David O'Connell
FORWARD	Alberto Fernandez Villan	Alberto Fernandez Villan
IMPASSE	Luca Nizzetto	Luca Nizzetto
INNOMED	Santiago Begueria	Santiago Begueria
LEAP	Philippe Van Cappellen	Tatjana Milojevic
OPERA	Marius Heinen	Marius Heinen
POTENTIAL	Pieter Janssens	Isabelle Piccard Sarah Garre Christian von Hebel Mathias Neumann Andersen
ProWisper	Tanta-Verona lordache	Carmen-Eugenia Sirbu
REWATER	Cristina Delerue-Matos	Manuela Correia Henri Nouws
SMARTECOPONICS	Francesc Xavier Muñoz Pascual	Elisenda Benet
SOSTPRO	John S. Richardson	John S. Richardson
Water4ever	Ramiro Neves	Ramiro Neves
WaterFARMING	Bhim Bahadur Ghaley	Abd-Alla Gad

During the life of the 2016 Joint Call, ISPRA communicated with both with the WaterWorks2015 Projects' Coordinators and the WaterWorks2015 OD&OA Contact Points in order to encourage them to upload the research data in the OD&OA Water JPI tool. As shown in **Table 8**, most of the projects shared some of their data or outputs on the Water JPI OA&OD platform even if the publishing of the data sets in public repositories was optional. All resources published by researchers, Projects' Coordinators and the WaterWorks2015 OD&OA Contact Points are available at the following link: <http://opendata.waterjpi.eu/group/2015jointcall>

Table 8: Overview of OA&OD recorded per project

Project	Number of OA&OD recorded
ABAWARE	1
AgriAs	22
AGRINuPeS	1
AgWIT	1
AquaVal	8
AWARE	0
CLEARANCE	15
ECOSAFEFARMING	0
Eutro-Sed	1
FORWARD	6
IMPASSE	0
INNOMED	1
LEAP	0
OPERA	18
POTENTIAL	0
ProWsper	8
REWATER	1
SMARTECOPONICS	1
SOSTPRO	1
Water4ever	2
WaterFARMING	1

5. Conclusions and recommendation

The report “Publication on Information” shows that the communication and dissemination activities developed to support the ERA-NET Cofund WaterWorks2015 have met the objectives of Work Package 5 (Communication, Exploitation, and Dissemination of the results from the co-founded call). The activities have been developed also in accordance with the Communication Strategies of both JPIs - Water JPI Communication and Dissemination Strategy (April 2013) and the FACCE-JPI Communication and Valorisation Strategy (October 2014). In addition, The WaterWorks2015 “Plan for Dissemination and Exploitation of Results” – PDER – of WaterWorks2015 has been implemented.

Both JPIs implemented platforms or new tools in order to better communicate on the funded projects and valorise the projects outcomes. Communication tools such as the WaterWorks2015 section of both JPIs websites, the news focusing on WaterWorks2015

activities published on the Water JPI e-newsletter, the online booklet dedicated to the funded projects and the FACCE-JPI project wheel, will remain accessible even after the closure of the funded projects and will constitute a point of access to useful information for future collaborations among Water and Agriculture researcher communities.

In addition, the online OD&OA tool, as a public repository, represents the access point to the results achieved by the funded projects under the 2016 Joint Transnational Call (JTC). The Water JPI OD&OA tool, developed in accordance with the F.A.I.R. - principles - Findable, Accessible, Interoperable, Reusable - has represented a challenge for the dissemination of the results. Even if the publishing of the data sets in public repositories was optional, a good response was given by researchers, as demonstrated during the management activities of the contact Network of Researchers in charge of OD&OA. The extension of the duration of the funded projects has slowed down the publication of the results achieved, the missing information may be published later as the tool will remain open and accessible even after the closure of the ERANET.

In order to intensify the dissemination of information of results achieved, the following actions are recommended:

- encouraging the use of OD&OA tool indicators to represent the results achieved in a concise and more communicative way;
- better disseminating the results of the projects and achieved impacts by updating the RDI online booklet in a timely way with the information from the JTC final reports for example – i.e. the publishable summary text or by highlighting some main outputs;
- ensuring the functionality of the platform during the all duration of the projects.