WATERWORKS2014 ERA-NET COFUNDED CALL:

16 Projects Recommended for Funding

The aim of the WaterWorks2014 Cofunded Call is to enable transnational, collaborative research, development and innovation projects addressing questions relating to the water challenges faced by European society.

The call focuses on the theme "Research and Innovation for Developing Technological Solutions and Services for Water Systems", a topic that partially covers the five priority themes described in the Strategic Research and Innovation Agenda (SRIA) of the Water JPI (http://www.waterjpi.eu).

A total of 16 transnational collaborative research projects were selected for funding by the Call Steering Committee:

Acronym	Title	Duration	Consortium Coordinator and PI's	Organizations	Countries
ACWAPUR	Accelerated Water Purification during Artificial Recharge of Aquifers - A Tool to Restore Drinking Water Resources	36m	**Jens Aamand**	**Geological Survey of Denmark and Greenland (GEUS)**	**Denmark**
			Jesus Carrera	Instituto de Diagnóstico Ambiental y Estudios del Agua	Spain
			Sara Hallin	Swedish University of Agricultural Sciences (SLU)	Sweden
			Caterina Levantesi	Italian National Council of Research (CNR)	Italy
			Xavier Sanchez-Vila	Universitat Politècnica de Catalunya (UPC)	Spain
Biorg4WasteWaterVal+	Bioorganic novel approaches for food processing waste water treatment and valorisation: Lupanine case study	36m	**Carlos Alberto Afonso**	**FARM-ID, Faculty of Pharmacy, University of Lisbon (FF-UL)**	**Portugal**
			Frederico Ferreira	Associação do Instituto Superior Técnico para a Investigação e Desenvolvimento (IST-ID/UL)	Portugal
			Francesca Malpei	Politecnico di Milano (POLIMI)	Italy
			Thomas Schäfer	Basque Centre for Macromolecular Design & Engineering	Spain
			Michalis Koutinas	Cyprus University of Technology	Cyprus
			Dina Bastos	A Tremoceira Estrela da Piedade, Lda.	Portugal
DESERT	Low-cost water DEsalination and SEnsoR Technology compact module	36m	**Pietro Rubino**	**Università degli Studi di Bari Aldo Moro**	**Italy**
			Emilio Nicolás	Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC) - CEBAS	Spain
			Philippe Lebailly	Univesité de Liège	Belgium
			Anna Maria Stellacci	Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria	Italy
			Lucas Galera Quiles	NOVEDADES AGRICOLAS SA	Spain
DOMINO	Dikes and Debris Flows Monitoring by Novel Optical Fiber Sensors	36m	**Luca Palmieri**	**University of Padova**	**Italy**
			Thom Bogaard	Delft University of Technology	The Netherlands

			Miguel Gonzalez-Herraez	Universidad de Alcala	Spain
			Alessandro Pasuto	National Research Council - Research Institute for Geo-Hydrological Protection	Italy
IMDROFLOOD	Improving Drought and Flood Early Warning, Forecasting and Mitigation using real-time hydroclimatic indicators	36	**Sergio Vicente-Serrano**	**Consejo Superior de Investigaciones Cientificas**	**Spain**
			Ricardo Trigo	Fundação da Faculdade de Ciências da Universidade de Lisboa (FFCUL)	Portugal
			Chris Reason	University of Cape Town	South AfricA
			Roxana Bojariu	National Meteorological Administration	Romania
			Jaak Jaagus	University of Tartu	Estonia
			Boris Boincean	Research Institute of Field Crops "Selectia"	Moldova
			Jainme Ribalaygua	Farisa Asesores y Consultores S.L.	Spain
			Luis Gimeno	University of Vigo	Spain
INXCES	INnovations for eXtreme Climatic EventS	36m	**Tone Merete Muthanna**	**Norwegian University of Science and Technology**	**Norway**
			Maria Viklander	Luleå University of Technology	Sweden
			John Dehls	Geological Survey of Norway	Norway
			Floris Cornelis Boogaard	Hanze University of applied science in Groningen	The Netherlands
			Radu Constantin Gogu	Technical University of Civil Engineering Bucharest	Romania
IRIDA	Innovative remote and ground sensors, data and tools into a decision support system for agriculture water management	36m	**Diego S. Intrigliolo**	**Agencia Estatal Consejo Superior de Investigaciones Cientificas (CSIC) - CEBAS**	**Spain**
			Daniel Rodriguez	Innovati Servicios Tecnologicos, SL	Spain
			Pablo J. Zarco-Tejada	Agencia Estatal Consejo Superior de Investigaciones Cientificas (CSIC) - IAS	Spain
			Simona Consoli	University of Catania	Italy
			Giancarlo Roccuzzo	Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria	Italy
			Elena Mateescu	National Meteorological Administration	Romania
			Johannes Deelstra	NIBIO, Norwegian Institute of Bioeconomy Research	Norway
MEPROWARE	Novel Methodology for the Promotion of Treated Wastewater Reuse for Mediterranean Crops Improvement	24m	**Alfieri Pollice**	**IRSA CNR, Water Research Institute of the National Research Council of Italy**	**Italy**
			Nicola Lamaddalena	CIHEAM-IAMB, Centre International de Hautes Etudes Agronomiques Mediterraneennes - Istituto Agronomico Mediterraneo di Bari	Italy
			Gonçalo Rodrigues	ISA LEAF, Instituto Superior de Agronomia - University of Lisbon	Portugal
			Jorge De las Heras	UCLM, University of Castilla-La Mancha	Spain
MUFFIN	Multi-Scale Urban Flood Forecasting: From Local Tailored Systems to a Pan-European Service	36m	**Jonas Olsson**	**Swedish Meteorological and Hydrological Institute (SMHI)**	**Sweden**
			Soren Thorndahl	Aalborg University	Sweden
			Herman Russchenberg	Delft University of Technology	The Netherlands
			Teemu Kokkonen	Aalto and Helsinki University	Finland

Project	Title	Duration	PI/Partner	Institution	Country
Pioneer_STP	The Potential of Innovative Technologies to Improve Sustainability of Sewage Treatment Plants	36m	**Juan M. Lema**	**University of Santiago de Compostela**	**Spain**
			Francesco Fatone	University of Verona	Italy
			Gürkan Sin	Technical University of Denmark	Denmark
			Elzbieta Plaza	Royal Institute of Technology	Sweden
			Jose R. Vazquez-Padin	FCC Aqualia	Spain
PROGNOS	Predicting In-Lake Responses to Change Using Near Real Time Models	36m	**Donald Pierson**	**Uppsala University**	**Sweden**
			Eleanor Jennings	Dundalk Institute of Technology	Ireland
			Elvira de Eyto	Marine Institute	Ireland
			Erik Jeppesen	Aarhus University	Denmark
			Raoul-Marie Couture	Norwegian Institute for Water Research - NIVA	Norway
			Gideon gal	Israel Oceanographic and Limnological Research	Israel
SIM	Smart Irrigation from Soil Moisture Forecast Using Satellite and Hydro-Meteorological Modelling	36m	**Marco Mancini**	**Politecnico di Milano**	**Italy**
			Giacomo Branca	Università della Tuscia	Italy
			Massimo Menenti	Delft University of Technology	The Netherlands
			Li Jia	RADI-CAS	China
			Romualdo Romero	University of the Balearic Islands	Spain
			José A. Sobrino	University of Valencia	Spain
			Stefania Meucci	Modellistica e Monitoraggio Idrologico	Italy
			Raffaele Salerno	Meteo Operations Italia - Centro Epson Meteo	Italy
STEEP STREAMS	Solid Transport Evaluation and Efficiency in Prevention: Sustainable Techniques of Rational Engineering and Advanced MethodS	24m	**Aronne A. Armanini**	**Universita' degli Studi di Trento**	**Italy**
			Giuliano Di Baldassarre	Uppsala Universitet	Sweden
			Antonio Heleno Cardoso	CEris, IST-ID, Universidade de Lisboa	Portugal
TH.E.R.BIO.R	Thermal Energy Recovery from a Novel Sequencing Batch Biofilter Granular Reactor	24m	**Franceisco Javier Batlles Garrido**	**University of Almeria (UAL)**	**Spain**
			Claudio Di Iaconi	CNR-IRSA National Research Council- Water Research Institute	Italy
			Ivan Munoz	2.0.-LCA Consultants	Denmark
			Inaki Acasuso Perez	Hedera Helix Ingenieria y Biotecnologia S.L.	Spain
watintech	Smart decentralized water management through a dynamic integration of tecnologies	36m	**Ignasi Rodriguez-Roda Layret**	**Catalan Institute for Water Research (ICRA)**	**Spain**
			Teresa de la Torre Garcia	ACCIONA Agua S.A.	Spain
			Giuseppe Luigi Cirelli	Universita' di Catania (UNICT)	Italy
			Krist V. Gernaey	Technical University of Denmark (DTU)	Denmark
			Adrian Oehmen	NOVA.ID. FCT Universidade Nova de Lisboa	Portugal
WE-NEED	WatEr NEEDs, availability, quality and sustainability	36m	**Monica Riva**	**Politecnico di Milano**	**Italy**
			Brian Berkowitz	Weizmann Institute of Science	Israel
			Susana Loureiro	Universidade de Aveiro	Portugal
			Daniel Fernandez-Garcia	Universitat Politecnica de Catalunya	Spain

(RCN), Portugal (FCT), Romania (UEFISCDI), South Africa (WRC), Spain (MINECO and CDTI), Sweden (FORMAS) and The Netherlands (NWO).

Grants will be awarded to each consortia partner by their national funding organizations according to national rules and procedures. The kick-off of the projects will be scheduled after the conclusion of all national funding procedures and the signature of a Consortium Agreement between the consortia partners.

Call Statistics

A total of 118 pre-proposals were successfully submitted to the Water Works2014 ERA-NET Cofund, the Water JPI 2015 Joint Call. In Table 1 are depicted the key figures in this Two Step Evaluation Process:

Table 1 – General statistics on the participation level.

General Information	
Number of submitted pre-proposals	**118**
Number of applicants (Coordinators and Partners)	**649**
Average number of Partners per Consortium (submitted proposals)	**4.50**
Number of registered users in the Linkedin Group	**211**
Number of eligible pre-proposals evaluated in Step 1	**106**
Number of full-proposals evaluated in Step 2	**41**
Number of proposals selected for funding	**16**

A **gender analysis** of the 118 submitted pre-proposals shows a male dominance in the consortia coordination, with around 75% of the pre-proposals being coordinated by male researchers and only 25% by female researchers. This rate decreases when we proceed to the second phase, with 20% of the approved proposals being led by female researchers.

In what concerns the **countries participation** in the call, it was observed that 97% of the submitted pre-proposals involve partners from the funding countries exclusively. The remaining 3% of the pre-proposals include partners from non-funding countries, specifically, China, Canada, Poland and Finland, whose collaboration was based in their own funding (Figure 1).

Countries Participation in the Call

3% (4)

97% (114)

- Proposals exclusively involving FPOs
- Proposals involving non-FPOs
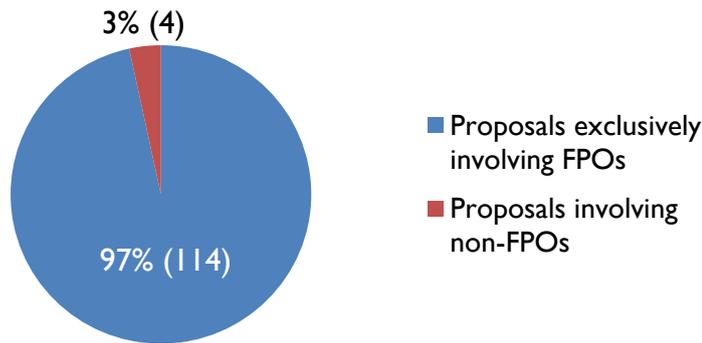
Figure 1 – Countries participation in the call, namely funding countries and non-funding countries.

If one analyses the number of partners per country among the submitted pre-proposals, it is observed a strong engagement of partners from Spain, Italy and Portugal, a pattern that is confirmed in the number of Consortia Coordination's per country, as depicted in Figure 2.

STEP 1 - Number of Coordinators and Partners per Country
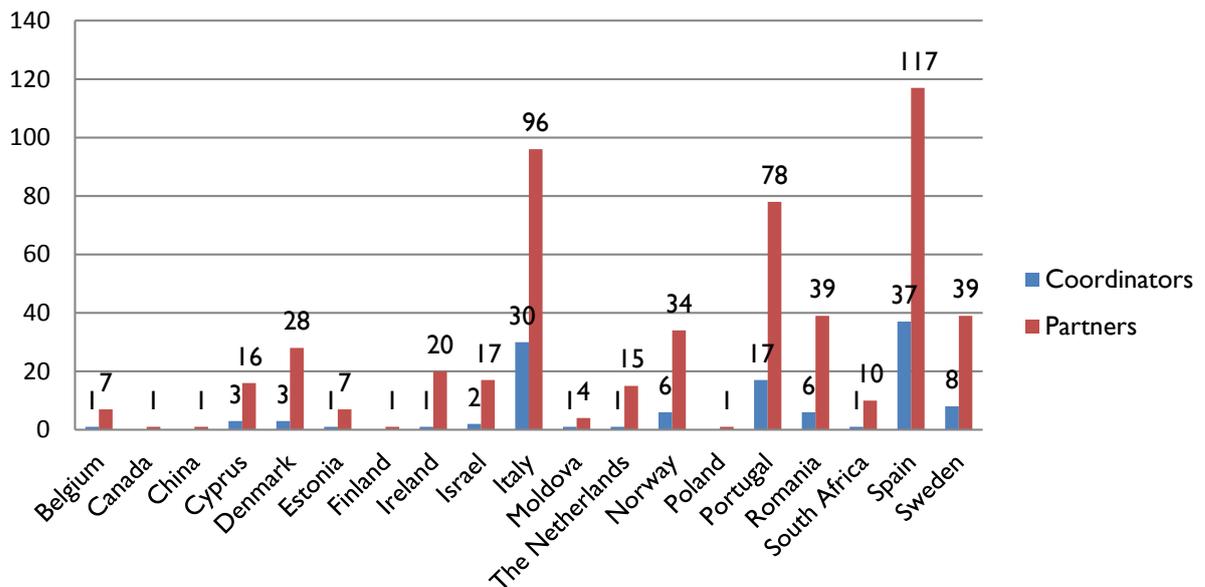
Figure 2 – Total number of Coordinators and Partners per country, considering the 118 submitted pre-proposals.

Considering the strong participation of Spain, Italy and Portugal in this call, it comes as no surprise that among the 41 pre-proposals selected to proceed to the second phase, the weight of these countries prevail (Figure 3).

Selected Pre-Proposals - Number of Coordinators and Partners per Country
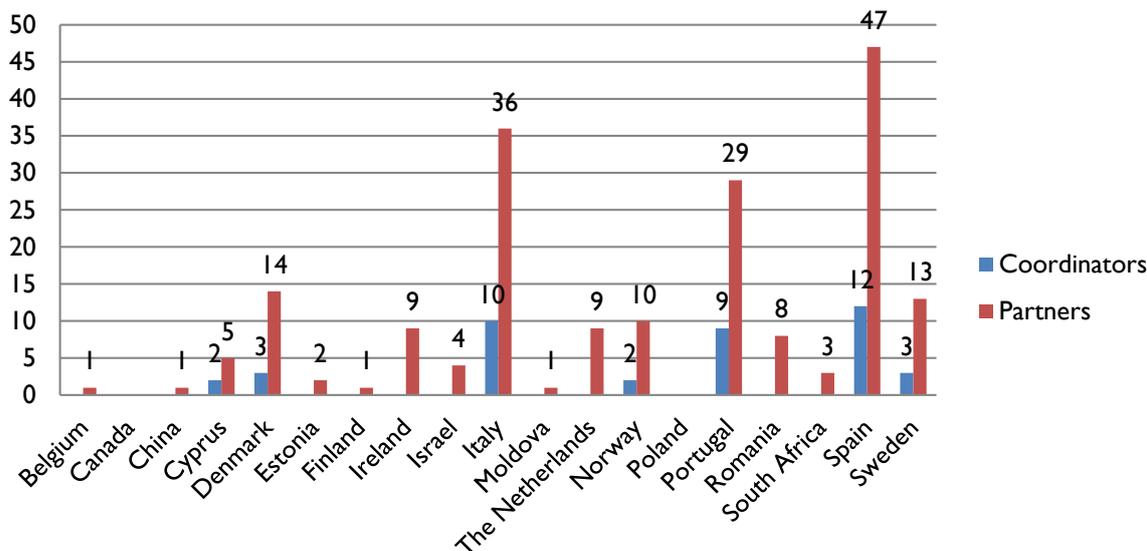
Figure 3 – Total number of Coordinators and Partners per country in the group of 41 pre-proposals selected to proceed to Step 2.

Regarding the **typology of the participating organizations**, we can see in Figure 4 that non-profit organizations are the predominant coordinators/partner's organization type (93%-80%). Only 20% of the proposals involve partners from private enterprises. This number decreasess in which regards the coordination of pre-proposals. Only 7% of the pre-proposals submitted are coordinated by enterprises.
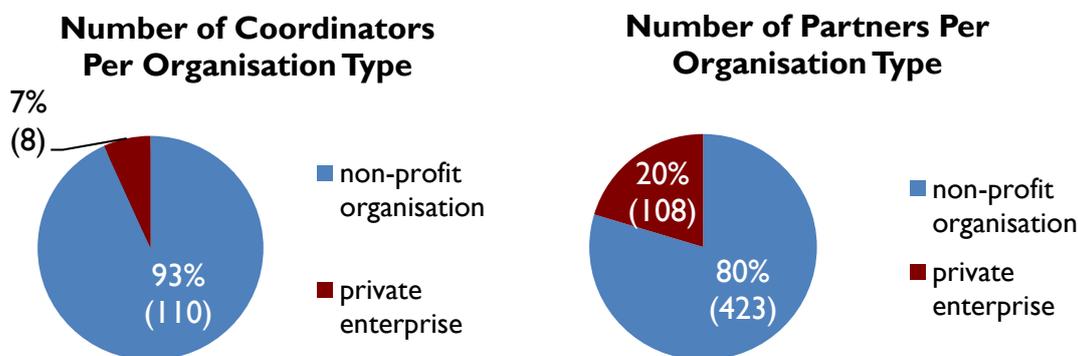
Figure 4 – Total number of Coordinators and Partners per organisation type in the group of 118 pre-proposals submitted to Step 1.

Concerning the **financing plan**, the total requested funding in this call amounts to close to €104 million, which corresponds to about 76% of the total costs declared, and to circa of 7 times more when compared to the available funds (€15 million).

Financing Plan: Overall Numbers
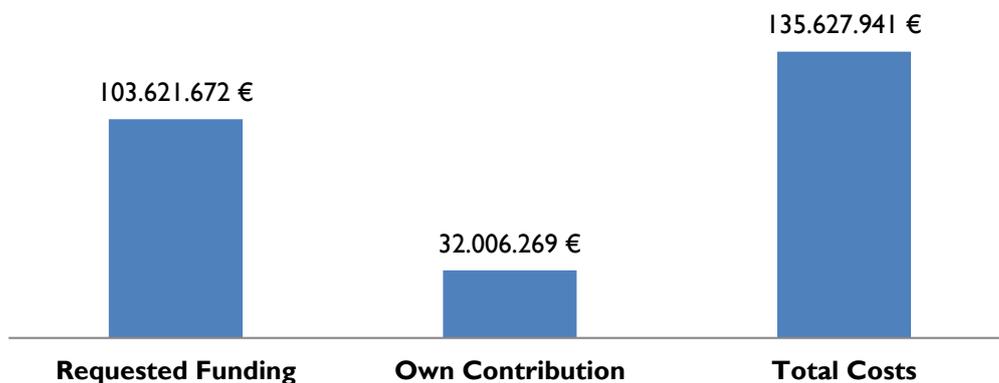
Figure 5 – Financing Plan: Overall requested funding, own contribution and total costs estimated in the group of 118 pre-proposals submitted to the call.

In sync with the strong participation of non-profit organisations in the call, 87% of the total requested funding comes from this type of organizations (Figure 6).

Requested Funding per Organisation Type
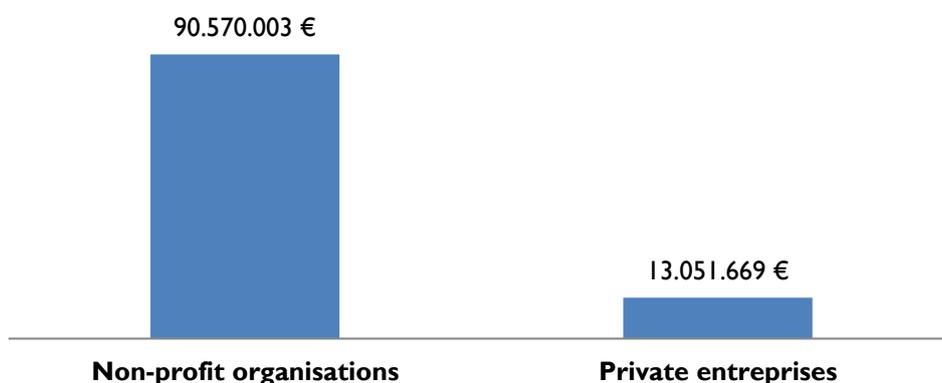
Figure 6 – Overall requested funding by organization type estimated in the group of 118 pre-proposals submitted to the call.

At the end of Step 1, 41 proposals were selected to advance to Step 2 and submit a full proposal, i.e., about 39% of the eligible pre-proposals proceeded to Step 2.

The analysis of the **distribution of the call topics** shows that the array of topics covered by the 106 eligible pre-proposals and the 41 proposals that advanced to Step 2 follow a similar distribution, as depicted in Figure 7. Topic 1 on *Water Treatment, Reuse, Recycling and Desalination*, had a large dominance over the other Call topics. Although speculative, the fact The Netherlands limited their funding to proposals covering Topic 3, may have been determinant to increase the participation level in this particular topic. Out of the 20 proposals submitted covering Topic 3, 14 had Dutch partners.

% of Submitted Pre-Proposals per Call Topic
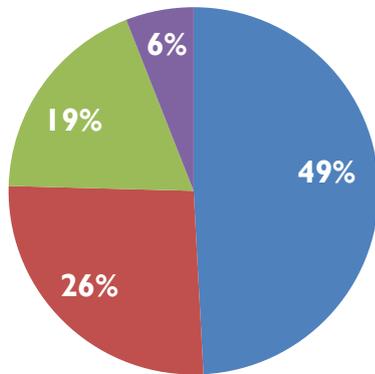
% of Proposals invited for Step 2 per Call Topic
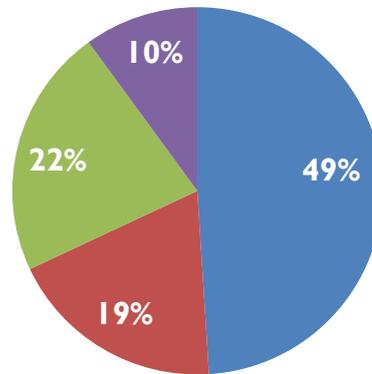
■ T1 ■ T2 ■ T3 ■ Multiple topics

Figure 7 – Distribution of Call Topics in the group of submitted pre-proposals and in the group of proposals that advanced to Step 2, namely, Research and Innovation for Developing Technological Solutions and Services: T1. for Water Treatment, Reuse, Recycling and Desalination; T2. for Water Resources Management; T3. to Mitigate Impacts of Extreme Events (Floods and Droughts) at Catchment Scale.

Step 2 was concluded on the 29-30 October 2015. The Evaluation Panel (EP) met in Lisbon and reached a final consensus evaluation of all 41 full-proposals. The distribution of total scores among the 41 proposals is depicted in Figure 8.
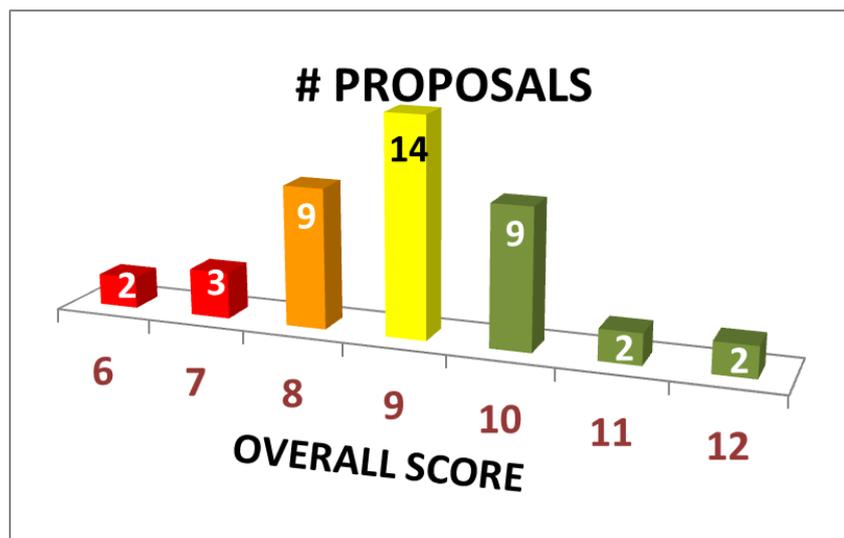
Figure 8 – Distribution of total scores among the 41 proposals.

In the group of 14 proposals scored 9, 13 ranked equally (scored 3 in all three evaluation criteria). The EP re-examined these 13 proposals, distinguish them and unanimously

recommended for funding 6 proposals ranked in high category. Due to budget limitations, the CSC could only propose 3 proposals within this group.

The **shortlist of 16 proposals** selected for funding by the CSC, represents about 39% of the 41 full proposals submitted in this Step. The distribution of topics among these 16 proposals is described in Figure 9. It is interesting to observe the balanced distribution of topics among the proposals recommended for funding.
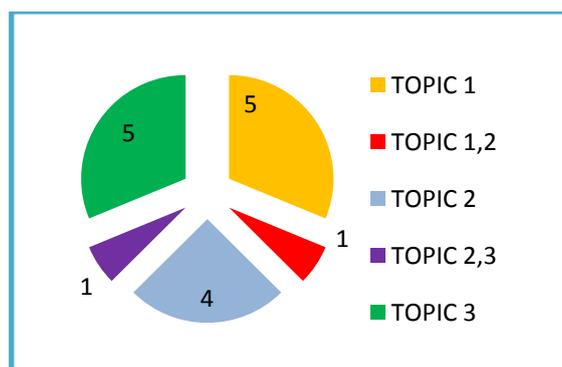
Figure 9 – Distribution of topics among the 41 proposals selected for the second step (left). Distribution of topics among the 16 shortlisted proposals recommended for funding (right).

In Table 2 is presented a summary of the WaterWorks2014 Evaluation Process, specifically, the number of pre and full proposals submitted per country, and the distribution of the proposals recommended for funding.

Table 2 – Summary of the evaluation process of the WaterWorks 2014 Cofunded Call. The last row of the Table includes average percentages based on the number of countries involved (15 countries).

Country	SUBMISSION STEP		ELIGIBILITY CHECK		FIRST STEP		SECOND STEP	
	Submitted Proposals	Proposals Coordinated	Submitted Proposals	Coordinated Proposals	Advancing to STEP2	Coordinated Advancing to STEP 2	Shortlisted to be Funded	Coordinated Shortlisted to be Funded
Spain	94	37	87	34	35	12	12	5
Italy	80	30	72	25	30	10	12	6
Portugal	64	17	62	16	22	9	6	1
Sweden	29	8	28	8	13	3	6	2
Romania	34	6	28	5	7	0	3	0
Norway	32	6	29	5	10	2	3	1
Denmark	25	3	23	3	12	3	6	1
Ireland	15	1	12	1	6	0	1	0
Israel	15	2	15	2	4	0	2	0
The Netherlands	14	1	13	1	8	0	4	0
Cyprus	17	3	15	3	7	2	1	0
South Africa	10	1	9	1	3	0	1	0
Estonia	8	1	8	1	2	0	1	0
Belgium	8	1	8	1	1	0	1	0
Rep. Moldova	5	1	4	0	1	0	1	0
AVERAGE %		19%	91%	89%	37%	27%	46%	38%

One can observe that all partner countries are presented in the top 16 shortlisted proposals recommended for funding. Considering the total number of proposals submitted to the WW2014 Call (106), we have a **success rate of about 15%.** The **total funding invested in the projects amounts to €13.979.751**, including the EC contribution. The efforts made by the funding partners participating in this call guaranteed the maximisation of the allocated EC funds (ca. 4.6 M€).