

European Innovation Partnership on Water

Nine initial Action Groups selected after initial call for proposals

Nine Action Groups were selected out of 64 applications by the EIP Water in May 2013:

- Smart Pricing and Drought Insurance Schemes in Mediterranean Countries
- Renewable Energy Desalination (RE-Desalination)
- W4EF: Framework for evaluation and reporting of the energy impacts on water
- Anaerobic membrane Bioreactor for Recovery of Energy and Resources
- CITY BLUEPRINTS: Improving Implementation Capacities of Cities and Regions
- WaterCoRe: Regional governance of water scarcity and drought issues
- Industrial Water Re-use and Recycling
- ESE - Ecosystem Services for Europe
- FINNOWATER

For getting in touch with any of these EIP Water Action Groups please contact the EIP Water secretariat: ENV-EIP-WATER@ec.europa.eu

AG Name	Smart Pricing and Drought Insurance Schemes in Mediterranean Countries
Description	<p>The Action Group aims at establishing and implementing a methodology on "Smart Pricing and Drought Insurance Schemes in Mediterranean Countries". The methodology will be based on improved analysis (DPSIR), data and (water management and risk assessment) models to reduce and mitigate drought impacts, by managerial and behavioural change and appropriate economic instruments for increased water security. The Action Group involves different perspectives, such as insurance, water pricing for re-used wastewater, and water trading.</p> <p>The implement phase will test the data sources and possible ways of improving and sharing them (e.g. via a common system under SEEA-W), and the analytical models and to validate the application.</p>
Lead Name	Instituto IMDEA Agua
Lead Organization/ Company Type	Knowledge provider
Core Priority	FLOOD AND DROUGHT RISK MANAGEMENT
Secondary Priority	WATER GOVERNANCE
Partner List	Directorate of Water Planning of the Spanish Ministry of Agriculture - Food, and the Environment (MAGRAMA); National Federation of Irrigation Communities (FENACORE); Consortium of insurance firms of the agrarian sector (AGROSEGURO S.A.); VALORIZA Agua: Agua de Valencia; Spanish-Portuguese Association of Environmental and Natural Resource Economics (AERNA); Spanish Water Technology Platform (PTEA); Universidad Politécnica de Valencia (UPV-LC); Universidad de Alcalá; Instituto Superior Tecnico de Lisboa
Partner Countries	Portugal, Spain

AG Name	Renewable Energy Desalination (RE-Desalination)
Description	<p>The Action Group will promote the use of desalination powered by renewable energy, as an environmentally friendly and decentralised solution for sustainable water supply.</p> <p>The implementation of RE-Desalination faces several technological, economical, social and institutional barriers that will be addressed in this Action Group.</p> <p>The Action Group will coordinate and promote research, development and innovation on RE-Desalination, in order to support the development and commercialization of RE-Desalination products at concrete sites. Furthermore, the Action Group will address awareness raising & training and demonstrate market potential, in an international context. The promotion of legal structures and policies will be investigated to facilitate and drive deployment.</p>
Lead Name	CIEMAT (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas)
Lead Organization/ Company Type	Knowledge provider
Core Priority	WATER-ENERGY NEXUS
Secondary Priority	WATER-ENERGY NEXUS
Partner List	Abengoa Water S.L.U.; AUA (Agricultural University of Athens); Aston University; CRES (Centre for Renewable Energy Sources & Saving); D&R Globe; European Desalination Society; Fraunhofer Institute; TEMAK S.A.; ITC (Instituto Tecnológico de Canarias S.A.); SolarSpring GmbH; University of Evora; UNIPA (Universita Degli Studi di Palermo); WIP-Renewable Energy (Wirtschaft und Infrastruktur GmbH & Co Planungs KG)
Partner Countries	Germany, Greece, Italy, Portugal, Spain, United Kingdom

AG Name	W4EF: Framework for evaluation and reporting of the energy impacts on water
Description	<p>The main objective of this Action Group is to produce an adapted framework for energy companies in order to assess their water use and water impacts. The Action Group will develop a comprehensive approach to the water footprint of energy production. It will allow differentiating between water withdrawal, water consumption and net water consumption, and calculating different kinds of interactions between the activity and its water environment. The underlying project assumption is that existing frameworks and initiatives do not fulfil the need of the energy sector.</p> <p>After agreement on the framework and its validation, a tool will be developed to help implement the methodology in a consistent way and ensure wide dissemination across the European energy industry and beyond.</p>
Lead Name	EDF Electricité de France
Lead Organization/ Company Type	Other/Non water sector
Core Priority	WATER-ENERGY NEXUS
Secondary Priority	WATER-ENERGY NEXUS
Partner List	DANVA Danish Water and Wastewater Association; FIWA Finnish Water Association; Norsk Vann Norwegian Water; ARA Romanian Water Association; IGWP Polish Waterworks Chamber of Commerce; Avanade; Delf University; World Water Council; Water Energy Council; World Business Council for Sustainable Development; International Energy Agency; United Nations Environment Program; Renewable Energy Alliance including International Hydropower Association; World Nuclear Association; World Coal Association; IPIECA; GDF Suez Environment; Veolia Water; Hydro Tasmania; Statkraft; BP International; Accenture; Limnotech; Quantis; Greenpeace International; EPRI: Electric Power Research Institute; University of Twente;

	WFN: Water Footprint Network; Lund University; Sintef Energy Research; University of Bordeaux; Austin University of Texas; NTNU: Norwegian University for Science and Technology; Centre for Environmental Design of Renewable Energy
Partner Countries	France, Germany, Netherlands, Australia, United States

AG Name	Anaerobic membrane Bioreactor for Recovery of Energy and Resources
Description	The Action Group aims to develop an anaerobic membrane reactor to maximize resource recover through an alternative wastewater treatment based on AnMBR technology. Through a multidisciplinary scientific and industrial composition, the Action Group will achieve successful integration into a new design for a sustainable and economic wastewater treatment. It will offer new marketable wastewater treatment solutions.
Lead Name	University of Valencia
Lead Organization/ Company Type	Knowledge provider
Core Priority	WATER-ENERGY NEXUS
Secondary Priority	WATER AND WASTE WATER TREATMENT
Partner List	Polytechnic University of Valencia; Delft University of Technology; UNESCO-IHE Institute for Water Education; French National Institute for Agricultura and Research; Cranfield University; Aqualia; Biothane Systems International; Scottish Water; Severn Trent PLC; Koch Membrane Systems
Partner Countries	France, Netherlands, Spain, United Kingdom

AG Name	CITY BLUEPRINTS: Improving Implementation Capacities of Cities and Regions
Description	<p>The Action Group will organize interventions at the local level to overcome barriers in the governance systems that hinder the development and uptake of innovations. More transparent governance and communication on urban water management options and technologies will enable a more rapid introduction of state-of-the-art technologies and will further improve the involvement of the civil society and the private sector in cities and would strengthen the collaboration between cities.</p> <p>The Action Group will establish a network (learning alliance) of European cities to share their best practices on Urban Water Cycle Services (UWCS) in their effort for a transition towards improving the sustainability of the UWCS of their city/municipality/region. Innovation in water governance may enable and accelerate the application of state-of-the-art UWCS technology. In addition, the Action Group will drive bringing innovative models of water governance, aligned with technical innovations, to the market.</p>
Lead Name	KWR Water Cycle Research Institute
Lead Organization/ Company Type	Knowledge provider
Core Priority	WATER GOVERNANCE
Secondary Priority	WATER GOVERNANCE
Partner List	Adventech; KWR Water Cycle Research Institute; University of Utrecht - Copernicus Institute of Sustainable Development; Siemens; ERRIN; Netwerc H2O; Red Aragon 7 PM; ZINNAE; AMGA; PARAGON EUROPE; USBMA; REGIONE PUGLIA; ACQUEDOTTO PUGLIESE; AUTORITA' IDRICA PUGLIESE; De Montfort University; Witteveen en Bos; Deltares; ENEA; REDINN; LEITAT; DEMOWARE CONSORTIUM; World Bank
Partner Countries	Belgium, Italy, Malta, Netherlands, Portugal, Spain, United Kingdom, Morocco, United States

AG Name	WaterCoRe: Regional governance of water scarcity and drought issues
Description	The 'WaterCoRe Action Group on regional governance of water scarcity and drought issues centres around the implementation of Regional Action Plans that are intended to improve water governance in practice, with a focus on connecting institutions in different domains and on different levels of scale (multilevel governance). The Action Group supports creating a sense of urgency and drivers for change (leadership), design and implementation of new arrangements for cooperation (including public-private partnerships and business opportunities) and will provide a knowledge exchange and best practices network, consisting of administrations and other representatives of seven European regions.
Lead Name	Province of Noord-Brabant (NL)
Lead Organization/ Company Type	Legal Supporter
Core Priority	WATER GOVERNANCE
Secondary Priority	WATER GOVERNANCE
Partner List	Ministry of Environment, Energy, Agriculture and Consumer Protection of Hessen; Ministry of Agriculture, Livestock and Environment of the Government of Aragon; General Directorate for Environment and for Soil and Coast Protection of Emilia-Romagna; Ministry of Rural Development; General Council of Herault; Agency of Environment and Geology of Hessen; Aragonese Water Institute; Environmental Agency of Emilia-Romagna; Lower Tisza District Water Directorate; National Meteorological Administration; Environmental Protection Agency Covasna; Regional Environmental Center; University of Liverpool; Knowledge Transfer Partnership on Water; University of Tilburg - Telos Institute for sustainable development (in cooperation with the Simon Fraser University); Radboud University Nijmegen - Geography, Spatial Planning and Environment Department (in cooperation with University of Wageningen - Public Administration and Policy Group); University of Bologna - Department of Agricultural Sciences; Deltares - Policy and Planning Department (in cooperation with Alterra); Blue! Advancing European projects
Partner Countries	France, Germany, Hungary, Italy, Netherlands, Romania, Spain, United Kingdom

AG Name	Industrial Water Re-use and Recycling
Description	The objective of this Action Group is to develop new methodologies for industrial water re-use and recycling and with the aid of these new methodologies, develop and implement (local) innovative technical, social- and environmental solutions. All types of sources for industrial water re-use: industrial, urban, agriculture and ecosystems (wetlands) will be considered. New regional concepts will be discussed to come to robust and sustainable water regions in relation to industry. New arrangements and stakeholder involvement methodologies fit for finding and consolidating new cooperation forms between various local partners will be included, as well as technological and non-tech solutions.
Lead Name	TNO
Lead Organization/ Company Type	Knowledge provider
Core Priority	WATER RE-USE AND RECYCLING
Secondary Priority	WATER RE-USE AND RECYCLING
Partner List	TNO; TU Delft; EWP; Evides; DOW; ISPT; TNAV; UGent; VITO; Solvay; Euratex; Procter & Gamble; CEIT; UC Madrid; Cetaqua; Leitat; Tecnalía; UPC; Cartif; CIDTA; VTT; Paragon; UMaribor; Limnos; PEC; IVL; Forrestry; Dechema; PTS; DHI; IRSA; SSSA; Food4Life; FHNW; Veolia; BRGM; ESTEP; Arkema; Degremont; SIRIM; MinTek; PUB; CSIRO; Golden State

Partner Countries	Belgium, Finland, France, Germany, Italy, Malta, Netherlands, Slovenia, Spain, Sweden, Australia, China, India, Malaysia, Singapore, South Africa, Switzerland
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AG Name	ESE - Ecosystem Services for Europe
Description	<p>The Action Group aims to develop a consensual and agreed methodology to assess the tangible and intangible benefits from natural and constructed ecosystems in environment and monetary terms. This methodology will be tested, adapted and implemented in a range of European and non-European demo sites as European, national and local (RTD) projects.</p> <p>Expected is the development of a unique set of economic indicators (in monetary values), allowing economic comparisons among diverse areas and different scenarios.</p> <p>The main issues to be included are: - Ecosystem functions allocation, biophysical processes understanding, natural microbial communities, water resources to guaranty the ecosystem functions and ES; - Local studies on wetlands and paddy fields, buffer zones; - Good agriculture practices, sustainable architecture, global warming effects and energy aspects related to ES; - Sustainable use of storm waters and groundwater use, and drainage in cities; and - Tariff and business models, stakeholder's perception, economic effectiveness of the ES.</p> <p>Market opportunities will be especially centred on the creation of new SMEs to carry out the alternative water management techniques based on the new methodology, as well as the implementation of new ICT devices that could easily measure the biologic and environmental status of water bodies.</p>
Lead Name	CIRCE Research Centre
Lead Organization/ Company Type	Knowledge provider
Core Priority	ECOSYSTEM SERVICES
Secondary Priority	ECOSYSTEM SERVICES
Partner List	IRSA Research Institute; Geological Survey of Finland GTK; EU-rice network; Lulea University of Technology LTU - Urban Water Engineering SWE; Centre for Ecological Research and Forestry Applications CREAF; Centro Tecnológico LEITAT; Institute for Science - Innovation & Society; Coventry University - Urban Physical Geography - Sustainable Urban Drainage Systems (repress. also the Water Efficiency in Buildings Network & the Integrating Sciences to Sustain Urban Ecosystem Services (ISSUES) Group & EPSRC and the Better Thames Network); Decagon Devices INC; Centre Assessoria Dr. Ferrer S.L.; UMS GmbH
Partner Countries	Finland, Germany, Italy, Netherlands, Spain, Sweden, United Kingdom, United States

AG Name	FINNOWATER
Description	<p>FINNOWATER - Innovative financial instruments and mechanisms to support public and private sector in water innovation. The FINNOWATER Action Group intends to explore, develop and implement new approaches to increase financial flows in the water (and water-related) sector, particularly by incentivizing public innovation (Pre-Commercial Procurement PCP, and Public Procurement of Innovative Solutions PPI) of new technologies and services as well as other innovative financial tools and mechanisms.</p>
Lead Name	ERRIN – European Regions Research and Innovation Network
Lead Organization/ Company Type	Knowledge provider
Core Priority	FINANCING FOR INNOVATION

Secondary Priority	FINANCING FOR INNOVATION
Partner List	Red Aragon 7PM Network/University of Zaragoza; WETSUS - Center of Excellence for Sustainable Water Research; VTT - Technical Research Center of Finland; Stichting Deltares; FEUGA - Fundacion Empresa Universidad Gallega; R+i Alliance-SUEZ ENVIRONEMENT; Regione Puglia, Deparment for Environment, Water Resources and Public Works; Central Denmark Region; Government of the Region of Valencia, Directorate General on Water; Development Agency of the Region of Murcia; CDTI - Centre for Industrial Technological Development; Abengoa Water; Acciona Agua S.A.U.; Aqua Publica Europea; ZINNAE; EUREKA AQUEAU; OIEAU - Office Internacional de l'Eau; Paragon Europe
Partner Countries	Belgium, Denmark, Finland, France, Italy, Malta, Netherlands, Spain

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