

ANALYSIS & OVERVIEW OF WATER EUROPE MEMBERS' EUROPEAN PROJECTS











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Introduction

Dear reader,

Our strategy at Water Europe revolves around the ambition to realise the value of water for our society and our economy, and achieve a European Water-Smart Society, while providing excellent services to members. Representing the whole water value chain, Water Europe is engaged in raising the water topic on the political agenda, ensuring that water receives the proper attention in the European funding programmes and facilitating our members' involvement in research projects. Earlier this year, we started a stakeholders' and EU-funded projects' analysis and we are now proud to share with you its results and conclusions in this new publication that if anything else proves one thing: Our hard work and efforts have paid off.

Our new publication has a threefold aim. Firstly, to present you an overview of all the EU- water related projects funded under H2020, Interreg and LIFE programmes. Secondly, to provide you with impressive statistics and insights on the projects that our Water Europe members have been successfully involved over the years. Lastly, to take you on a journey into the projects Water Europe has participated, wishing not only to acknowledge the achievements of these projects but also to present concrete examples of innovation, the impact they have caused and their added value in European research.

We would like to thank all people who contributed to making this publication happen. After all, let's keep in mind that knowledge sharing, experience exchange, and collaborative work are not only essential factors to create successful projects' consortia but it's the only way to achieve a Water-Smart Society. To all our members and partners, we wish that this publication inspires you and stimulates you to keep up the good work of bringing your breakthrough ideas to life in the years to come.

Enjoy the read.





Section 1

Analysis of the EU-funded water related projects from 2014 to 2019

Investing in research and innovation means a lot of things. It means to capitalise on Europe's future and its sustainable development. It means to compete globally and improve the lives of millions of people in Europe and around the world. It means to encourage cooperation across countries and disciplines. Lastly but most importantly, it means to help solving some of the biggest societal challenges our planet faces. Water is one of them.

Securing long-term resilience, stability and sustainability of water systems provides the foundation for a future Water-Smart Society where the new sources for economic development and social stability are based on new investment and governance models to realise the true value of water.

In this regard, the EU has supported and supports the water sector development through a number of flagship programmes such as the running R&I FP Horizon 2020, LIFE+ and INTERREG.

This publication aspires to highlight the efforts and the contribution of the EU to the water sector by offering a snapshot on how the above-cited programmes have allocated resources for the implementation of water-related projects across Europe and highlight the participation of Water Europe members in these projects, which is remarkable just considering that in more than 70% of the water-related H2020 RIA and IA projects, WE members play the role of the coordinator or participating partner.

This review covers the years from 2014 to 2019, including the funds from Horizon 2020, LIFE+ and INTERREG programmes, while the related allocation of resources across the period is based on the official start-up date of the projects.

So far, Horizon 2020 has contributed to the water sector approximately with 1.245 M€, LIFE+ with 820M€, and INTERREG with 1.000M€, and the calls for proposal for the year 2020 will bring even further means.

The first part of this section is dedicated to the analysis of the totality of the funded water projects, while the second part focuses on water projects with the participation of Water Europe members.

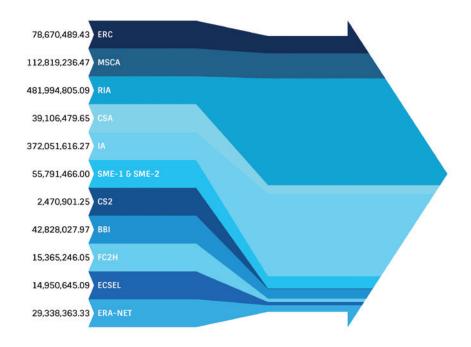
¹ RIA: research and innovation actions, R&D to establish new knowledge or explore the feasibility of a new or improved technology, product, process, service or solution (including basic and applied research, technology development and integration, testing and validation on a small-scale prototype in a laboratory or simulated environment).

²IA: innovation activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services (including prototyping, testing, demonstrating, piloting, large-scale product validation and market replication)



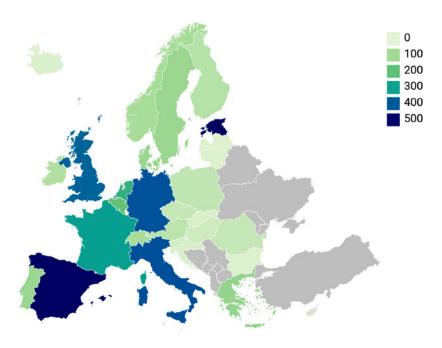
1.1 Overall outline of EU-funded water related projects 2014-2019³

WATER EUROPE - FUNDING ALLOCATION ACROSS H2020 FUNDING SCHEMES



³ Related allocation of resources across the period is based on the official start-up date of the projects

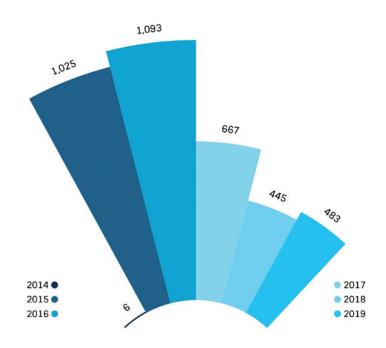
TOTAL NUMBER OF H2020 WATER PROJECT PARTICIPATIONS PER EU/EFTA COUNTRY



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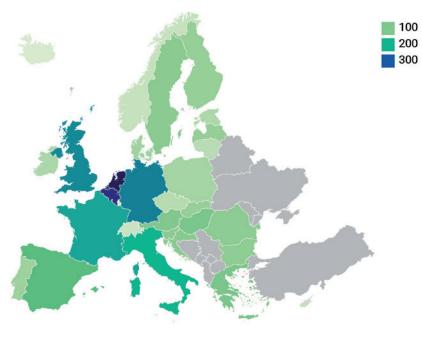
NUMBER OF PROJECT PARTICIPATIONS IN H2020 WATER PROJECTS FUNDED UNDER THE FOUR H2020 BBI, CSA, IA, AND RIA ACROSS THE YEARS





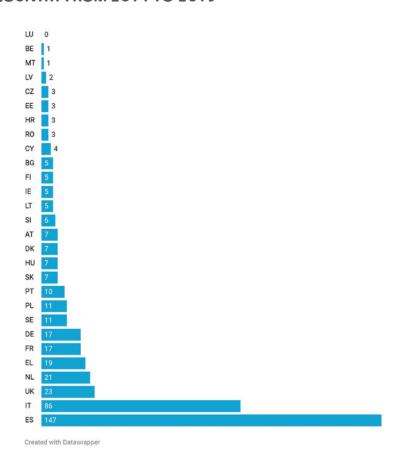


TOTAL NUMBER OF PROJECT PARTICIPATIONS IN THE INTERREG PROGRAM FROM 2014 TO 2019



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NUMBER OF DISTINCT COORDINATOR ORGANISATIONS PARTICIPATED IN LIFE WATER PROJECTS FROM THE SAME EU COUNTRY FROM 2014 TO 2019

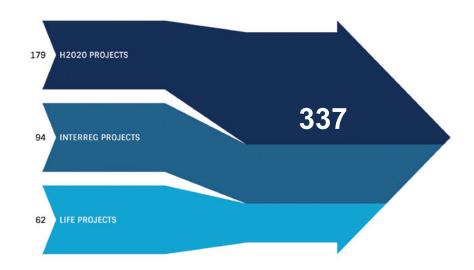


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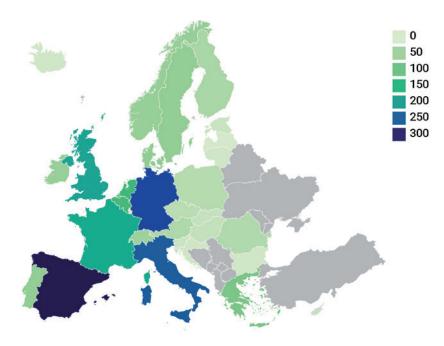


1.2 Water Europe Members' participation in the EU-funded water related projects

WATER EUROPE MEMBERS' WATER RELATED PROJECTS BY FUNDING PROGRAMME



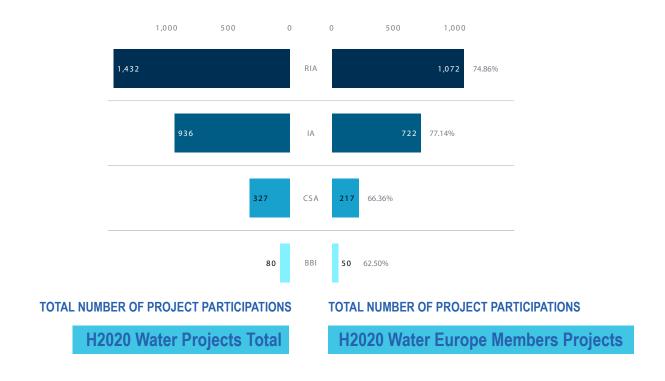
TOTAL NUMBER OF H2020 WATER EUROPE MEMBERS' PROJECT PARTICIPATIONS PER EU/EFTA COUNTRY (BY OFFICAL PROJECT START DATE)



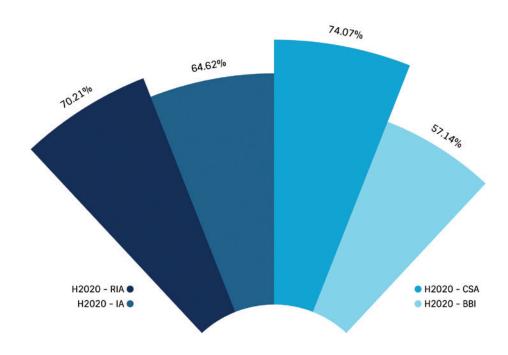
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COMPARATIVE OVERVIEW: TOTAL NUMBER OF PROJECT PARTICIPATIONS IN ALL WATER PROJECTS AND WATER EUROPE MEMBERS' PROJECTS, FUNDED UNDER H2020 RIA, IA, CSA, AND BBI

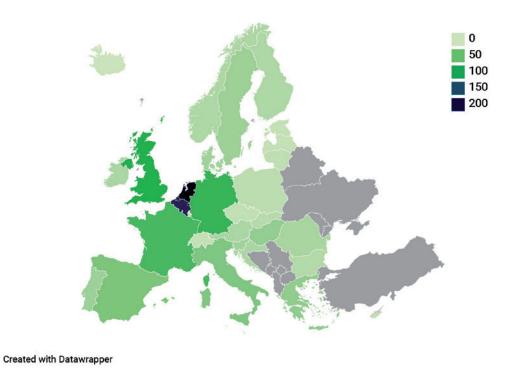


SHARE OF WE MEMBERS' PROJECTS OF TOTAL WATER-RELATED PROJECTS FUNDED UNDER H2020 RIA, IA, CSA, AND BBI

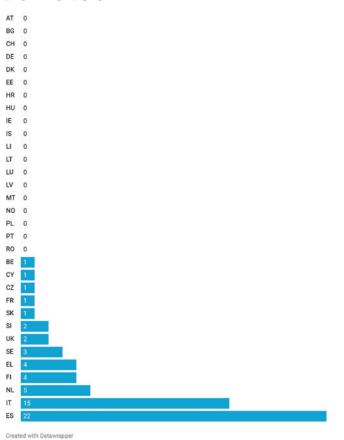




WATER EUROPE MEMBERS' INTERREG PROJECT PARTICIPATIONS

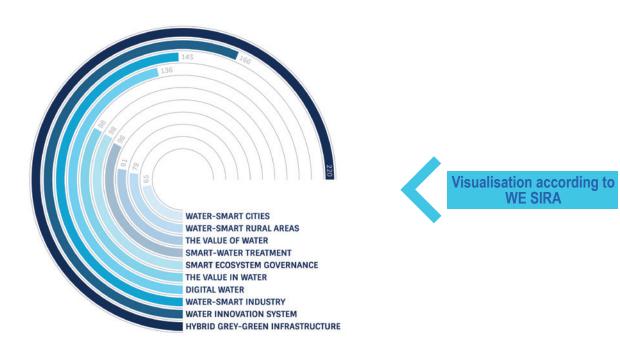


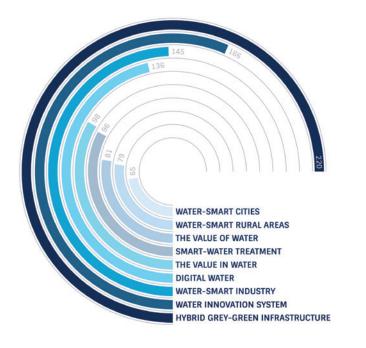
NUMBER OF DISTINCT COORDINATOR ORGANISATIONS PARTICIPATED FROM THE SAME COUNTRY IN LIFE WATER EUROPE MEMBERS' PROJECTS





WATER EUROPE PROJECTS ALIGNMENT WITH THE WATER EUROPE VISION CLUSTERS LEADERSHIP TEAMS, AND SIRA









Section 2

Interviews with the Coordinators of the Water Europe projects

aqua3S



COORDINATOR Anastasios Karakostas

ORGANIZATION Centre For Research And Technology Hellas - CERTH

Starting Date 1-sept-19

Duration 36 months

Total Costs € 6,853,608.75

EU Contribution € 5,997,067.88

Project reference H2020-SU-SEC-2018-2019-2020: 832876

Number or partners 23

Website www.aqua3s.eu



What is the project about?

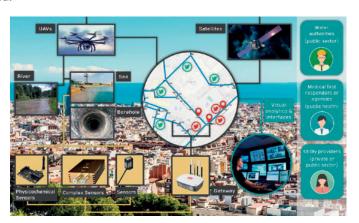
aqua3S project will create strategies and methods enabling water facilities to easily integrate solutions regarding water safety. aqua3S combines novel technologies in water safety and security, aiming to standardise existing sensor technologies complemented by state-of-the-art detection mechanisms. On the one hand, sensor networks are deployed in water supply networks and sources, supported by complex sensors for enhanced detection; on the other hand, sensor measurements are supported by videos from Unmanned Aerial Vehicles (UAVs), satellite images and social media observations from the citizens that report low-quality water in their area (e.g. by colorisation), creating also social awareness and an interactive knowledge transfer. The proposed technical solution is designed to offer a very effective detection system, taking into account the cost of the aqua3S platform and targets at very high return over investment ratio, by exploiting and combining open data sources to complement sensor measurements.

What are the specific challenges the project addresses?

Exposure of citizens to potential disasters has led to vulnerable societies that require risk reduction measures. Drinking water is one main source of risk when its safety and security is not ensured. Although several technologies for the analysis of drinking water have been proposed, there is a gap on how we could integrate them in the existing water safety networks. To fill this gap, aqua3S combines novel technologies in water safety and security, aiming to standardise existing sensor technologies complemented by state-of-the-art detection mechanisms.

What are the key research and innovation goals of the project and their expected impact?

aqua3S foresees the improvement of innovation capacity and integration of new knowledge in five main areas of innovation. Innovation in substance detection in water: aqua3S will customise and integrate a set of available sensors deployed at key points under control of the water utilities in order to cover the maximum possible number of these substances and send the relevant warning signal. Innovation in data acquisition from UAVs and earth observation: aqua3S streams of EO data will be continuously gathered and analysed to forecast natural hazards which potentially affect the water quality or monitor their changes in a predefined area of interest. Innovation in social media monitoring: aqua3S will gather social media data in social media public and open accounts to focus on the event and the creation of social awareness. Innovation in algorithms for threat detection and localisation in the existing water distribution networks: The algorithm will be implemented as a software tool for anomaly detection at water distribution networks and will be integrated into the early warning system. Innovation in crisis management modelling for enhance preparedness: Through aqua3S crisis management, modelling for each case study of the project will be implemented.





RIMA



COORDINATORChristophe Leroux

ORGANIZATION

Commissariat A L Energie Atomique Et Aux Energies Alternatives - CEA

Starting Date 1-jan-19

Duration 48 months

Total Costs € 16,048,605.00

EU Contribution € 16,048,605.00

Project reference H2020-DT-2018-1: 824990

Number or partners

Website www.rimanetwork.eu

What is the project about?

RIMA is a European project which received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824990. RIMA is one of the instruments of the European Commission's strategy regarding Digitizing European Industry. Its objective is to build a network of Digital Innovation Hubs (DIHs) to facilitate uptake of robotics technologies for the inspection and maintenance of infrastructures. RIMA covers inspection and maintenance of oil and gas, energy distribution and production, nuclear, transport (roads, rail, waterways, and hubs) and water supply and sanitation infrastructures. DIH are organizations offering a set of services to industries to facilitate technology transfer, such as technical expertise in robotics, definition of path to market, coaching, training, and support to funding, connection to regulation bodies for instance. RIMA network holds thirteen DIHs located in regions engaged in research and innovation on inspection and maintenance of infrastructures.

What are the specific challenges the project addresses?

Our challenge is to reinforce this connection and to provide education and training on robotics I&M, while connecting the value chain - research, technology companies, service providers, end users and investors- to accelerate economic growth in the field. RIMA project holds a set of "facilitators" whose role is to help in making connection with stakeholders (integrators, techno and service providers, asset owners and asset operators). Among these facilitators, RIMA includes the European sectorial associations Water Europe, FORATOM (nuclear), EFNDT (Non Destructive Testing), FEHRL (transport) and SPRINT ROBOTICS (Oil and Gas).

What are the key research and innovation goals of the project and their expected impact?

SMEs are at the heart of RIMA's activities regarding deployment of robotics technologies. Half of RIMA's budget, 8M€, will be distributed by RIMA to European SMEs by means of two open calls. These open calls are aiming at stimulating deployment of robotics technologies held in the RIMA DIHs in the industry using challenges defined by asset owners or asset operators. RIMA will select applications that show the maximum socioeconomic impact for Europe (creation of employment, creation of new products, of new markets, of new companies, etc.). Applicants selected by independent experts will receive up to 300k€ to conduct demonstration or tech transfer experiments from six to fourteen months. A market place is being also set up in order to support the sustainability of the RIMA network beyond the terms of the project.



Robotics for Inspection and Maintenance





NEXTGEN



COORDINATORJos Frijns



COORDINATOR Christos Makropoulos

ORGANIZATIONKWR Water B.V. - KWR

Starting Date 1-jul-18

Duration 48 months

Total Costs € 11,397,543,54

EU Contribution € 9,965,230.51

Project reference H2020-CIRC 2017 Two Stage: 776541

Number or partners 30

Website www.nextgenwater.eu

What is the project about?

NextGen is a 4-year H2020 project under the EU Water in the Context of the Circular Economy programme. The project mobilises a strong partnership of 30 water companies, industry, specialised SMEs, applied research institutes, technology platforms, city and regional authorities. KWR is the project coordinator. NextGen will demonstrate innovative technological, business and governance solutions for water in the circular economy in ten high-profile, large-scale, demonstration cases across Europe, and we will develop the necessary approaches, tools and partnerships, to transfer and upscale. By introducing innovative solutions for closing the cycles of the water system, NextGen contributes to the challenges of water scarcity, raw materials depletion and climate change

What are the specific challenges the project addresses?

NextGen addresses a wide range of challenges related to water-embedded resources:

- water: reuse at multiple scales supported by nature-based storage, optimal management strategies, advanced treatment technologies, engineered ecosystems and compact/mobile/scalable systems;
- energy: combined water-energy management, treatment plants as energy factories, water-enabled heat transfer, storage and recovery for allied industries and commercial sectors
- materials: nutrient mining and reuse, manufacturing new products from waste streams, regenerating and repurposing membranes to reduce water reuse costs, and producing activated carbon from sludge to minimise costs of micro-pollutant removal.

What are the key research and innovation goals of the project and their expected impact?

NextGen's innovative circular water solutions will be demonstrated at ten large-scale sites across Europe. Emphasis will be on the conditions for successful application and upscaling. At the demo sites, the circular technologies are demonstrated, and these solutions are assessed on their environmental and economic performance. Stakeholder engagement and citizens involvement in devising circular water solutions is organized in communities of practices and public engagement activities. Key findings on the regulatory and governance (pre)conditions will be used to develop an EU Roadmap to support wider uptake of circular solutions in the water sector. All this work gears towards the development of new circular economy business models and market opportunities.







Hydrousa



COORDINATORSimos Malamis

ORGANIZATION National Technical University Of Athens - NTUA

Starting Date 1-jul-18

Duration 54 months

Total Costs € 12,015,448.75

EU Contribution € 9,958,706.88

Project reference H2020-CIRC-2017 Two Stage: 776643

Number or partners 29

Website www.hydrousa.org



What is the project about?

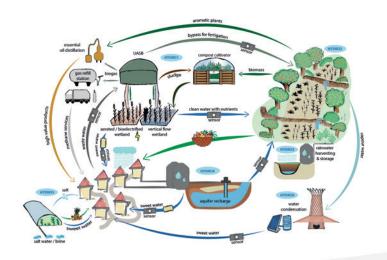
HYDROUSA is a Horizon2020 Innovation Action, circular economy project which aims to set up, demonstrate and optimise low-cost, innovative, nature-based solutions for the treatment and recovery of non-conventional water sources such as wastewater, rainwater, groundwater, seawater and atmospheric vapour water. HYDROUSA focuses on decentralized, water scarce Mediterranean areas facing significant challenges in terms of water resources management. HYDROUSA solutions produce water suitable for multiple purposes such as domestic and agricultural use and drinking water. The HYDROUSA solutions lead to an increase of the agricultural production, therefore, boosting the economic activities of water-scarce Mediterranean areas.

What are the specific challenges the project addresses?

The Mediterranean region has been identified as one of the most vulnerable regions to climatic and anthropogenic changes in the world. Water resources in the Mediterranean are limited and unevenly distributed leading to serious water scarcity problems, while the high touristic activities during the summer months increase this stress. Agriculture is the prime water consumer, since more than 70% of water in the Mediterranean is used for agricultural activities. The existing wastewater treatment plants are often too overloaded to cope with the high seasonal loads, while some regions are not serviced at all. In several Mediterranean areas wastewater is discharged without (sufficient) treatment into the sea or septic tanks/pits are used. The desalination processes implemented to produce drinking water from seawater significantly increase the energy demand. Considering the water-energy-food nexus, activities within the concept of circular economy are urgently required within the Mediterranean. HYDROUSA aims to tackle these problems by delivering high quality water at low cost for multiple purposes at water scarce decentralized areas.

What are the key research and innovation goals of the project and their expected impact?

HYDROUSA does not only develop innovative water services, but revolutionizes the water value chains in Mediterranean areas from water abstraction and use up to sewage treatment and reuse. It changes the human water cycle at a local level by valorizing non-conventional water resources, which are currently not being exploited. The notion of onsite water reuse is dominant, minimizing the requirements for infrastructure to convey water and sewage, one of the main limitations of water reuse. HYDROUSA integrates engineered and nature based solutions at a decentralized level to recover resources at a local level. Decentralized treatment and use of resources also abolish the complex supply chain procedures and key players, maximizing the benefits and profit margins for producers and final users. Since no intermediaries are involved, the benefits are maintained within the local communities.





ZEROBRINE



COORDINATORRoelof Moll

ORGANIZATION Technische Universiteit Delft - TU Delft

Starting Date 1-jun-17

Duration 48 months

Total Costs € 11,081,972.78

EU Contribution € 9,992,209.11

Project reference H2020-CIRC-2016 Two Stage: 730390

Number or partners 22

Website www.zerobrine.eu



What is the project about?

ZERO BRINE aims to facilitate the implementation of a circular economy package for brines generated in the process industry, by developing concepts, technological solutions and business models to recover and reuse valuable minerals from brines while minimizing environmental impacts. The project integrates several emerging and innovative technologies to recover end-products of high quality and sufficient purity with a good market value. Large-scale demonstration sites are set-up in the Netherlands (industry water supply), Poland (coal mine industry), Spain (silica mining) and Turkey (textile industry). Brine Excellence Centers (BECs and an Online Brine Platform (OBP) are being established to promote mineral and water recovery. The project is being implemented by a consortium of 22 European partners (SMEs, industries, universities, consultancies and research institutes) and is coordinated by Delft University of Technology.

What are the specific challenges the project addresses?

The major challenge of the project is to identify effective, innovative and workable solutions for various different industries that are provided by a large number of suppliers throughout Europe. This needs specific care and time for implementation and testing, while the industrial sector has a broad interest and large expectations and cannot wait for the results. In addition, specific constraints, like impeding effects of organics in brines, should be tackled. Finally, the introduction and implementation of the new circular economy business models, based on economically sound an industrially relevant solutions, is a key challenge ahead.

What are the key research and innovation goals of the project and their expected impact?

Our key innovation goal is the demonstration of the value of the ZERO BRINE circular economy concept, i.e. the successful integration of innovative technologies in a business environment. Specific technological research goals comprise the potential reduction in waste volume, the purity of the minerals to be recovered, sustainability and reliability of the process chain excluding scaling risks, and the effectiveness of the use of waste heat. Further research focusses on the development and validation of innovative and circular economy business models.

Expected impacts of the project comprise resource optimization for water and minerals, including strategic reduction of e.g. magnesium imports from China, reduction of residual waste generation including waste heat, provision of economic, social and environmental sustainability of the proposed approaches, fostering new business opportunities within the circular economy concept supporting the transition to a circular economy and improving competitiveness of EU enterprises in the global market.





STOP-IT



COORDINATOR Rita Ugarelli

ORGANIZATION SINTEF AS

Starting Date 1-jun-17

Duration 48 months

Total Costs € 9,616,525.18

EU Contribution € 8,255,319.50

Project reference CIP-2016-2017-1: 740610

Number or partners 25

Website www.stop-it-project.eu

STOP-IT

What is the project about?

STOP-IT (Strategic, Tactical, Operational Protection of water Infrastructure against cyber-physical Threats) project is all about developing an integrated approach to manage risks to water critical infrastructure (both the physical and cyber asset of it), in addition to training solutions to enhance the cyber skills and capabilities of the water sector to meet future needs. This mission can be neither addressed nor solved in isolation. With a strong team of 23 partners from across Europe and Israel, the project is co-developing an all-hazards risk management framework to protect water critical infrastructures against physical and cyber threats.

What are the specific challenges the project addresses?

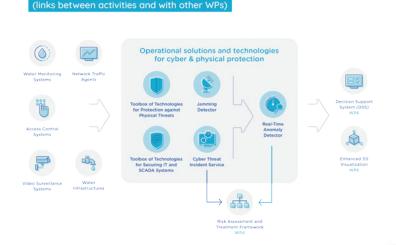
Water critical infrastructures are essential for life. Technologies allow us to operate the systems and these days more digital technologies are used, which means new opportunities, but also new risks. Cybersecurity is a top priority in the water sector because cyberattacks on water utilities can have impacts on public health, but also on other critical services that depend on the continuous delivery of water. Managing cybersecurity is a complex task, which requires a multidisciplinary risk-based approach.

What are the key research and innovation goals of the project and their expected impact? The main technological outcome of STOP-IT is an integrated, scalable, adaptable and flexible platform (at least TRL 7), which integrates nine modular components including solutions to:

- plan for preparedness (both prevention and mitigation) by stress testing the cyber physical systems of the network under scenarios of attack;
- mdetect cyber (i.e. jamming attacks) and physical (i.e. intruders, sabotage) threats and protect the system in real time;
- mmonitor and protect the data integrity of the IT and SCADA systems;

Visualization of WP5 activities

- mcontrol the access to restricted environment and for defined purposes;
- mcollect and share data feeds from incidents and provide preventive actions for the existing system and instantly visualize the alerts and suggested countermeasures;
- mcommunicate and share information with the public in areas affected by critical events;
- develop capabilities by using the solutions as a basis for training material and activities. All the STOP-IT technologies are ready to be tested and validated by the frontrunner water utilities. STOP-IT also includes follower utilities that will undertake training and knowledge transfer exercises with a focus on the interactive learning, transferability and scalability of the STOP-IT solutions.





IC4WATER



COORDINATORDominique Darmendrail

ORGANIZATION Agence Nationale De La Recherche - ANR

Starting Date 1-jan-17

Duration 60 months

Total Costs € 2,289,000.00

EU Contribution € 2,289,000.00

Project reference H2020-SC5-2016-OneStageB: 730264

Number or partners 20

Website www.waterjpi.eu/jointcalls/joint-call-2017-ic4water



What is the project about?

Water challenges are recognised by the World Economic Forum as a top risk in terms of impact to the economy and society in the upcoming years. Water crises, associated with the failure of climate change adaptation, are also perceived as more likely to occur and have an impact than the average risk. Global water requirements are projected to increase by 40% by 2030. In this context, the outreach and opening of the Water JPI to international partners is increasingly raising interest among the latter. In Support of the Water JPI development, IC4Water is a Coordination and Support Action funded by the European Commission for the development of international cooperation in Research and Innovation in the Water area. It aims to elaborate new principles of transnational RDI cooperation and to develop a common strategy co-designed with the Water JPI members, European initiatives (such as the other JPIs, or Water Europe) and International partners.

What are the specific challenges the project addresses?

Tackling these global challenges requires joining resources (human, financial) at international level in order to create a critical mass able to provide solutions to the Society. This cooperation faces numerous challenges: complexity of cooperation models, lack of national programmes, disparities in time scales, or variety of interest groups and agendas. Why should it do so? What kind of countries are of interest? Still though, there are a number of important benefits, motivations and enabling factors, including greater impact of R&D results and of scientific discovery and advances in technology; scale, scope and complexity of research topics and international issues; or capacity-building.

What are the key research and innovation goals of the project and their expected impact?

IC4WATER aims to increase the scale and ambition of water RDI activities beyond the current level, raising the overall coherence and efficiency of the use of European resources and valorising European know-how on water solutions at a global level in the context of the UN SDGs agenda. This is done via a set of joint activities, iterative coordination with the existing Water JPI SRIA and developing cooperation models with the most relevant partners (funders, economic sector, researchers). It also aspires to develop long-term RDI cooperation with European and international institutions for making the Water JPI, in cooperation with the European Commission, a privileged and attractive partner for global RDI cooperation. IC4WATER will have a strengthened role for underpinning knowledge and evidence for supporting the implementation of related international & EU policies, and the global water-related negotiations and fora. This will be achieved through cocreation and co-development of appropriate tools and concrete actions for reaching the UN SDGs objectives by 2030, which require innovative solutions easily transposable in all countries.

2030 UN Sustainable Development Goals



Water is central to many of the UN SDGs



REWATCH



COORDINATORMontse Calderer Perich

ORGANIZATION Fundacio Eurecat -Eurecat

Starting Date 1-sept-16

Duration 40 months

Total Costs € 2,645,765.00

EU Contribution € 1,586,556.00

Project reference LIFE15 ENV/ES/000480

Number or partners

Website www.rewatch.eu



What is the project about?

REWATCH is a LIFE project financed by the European Union, coordinated by the Eurecat technology centre and joined by the Spanish companies DuPont Water Solutions and Veolia Water Systems Ibérica, the Dutch Research Centre KWR Water and the Water Europe from Belgium. REWATCH aims to validate an innovative system that combines different technologies to treat and reuse wastewater from the petrochemical industry to obtain high-quality reclaimed water likely to be reused at the petrochemical industry itself. The REWATCH prototype will be tested at the DOW Chemical Ibérica ethylene cracker facilities in Tarragona (Spain), a region facing water supply shortages in certain periods of the year. The petrochemical industry has a high water consumption and generates considerable volumes of wastewater. At European level, this sector alone is responsible for 1,750 million m3 of wastewater a year. Experts believe that the water demand to produce ethylene could be reduced by 3.5 million m3 a year if this treatment and reuse scheme is implemented industrywide, increasing the availability of water resources.

What are the specific challenges the project addresses?

The main challenges of the REWATCH project are to validate an innovative treatment system and generate a predictive model to be used in other petrochemical plants. Besides this, the project aims to promote social awareness about the impacts that the generation of wastewater and freshwater overexploitation have on the environment. REWATCH will engage the participation of social stakeholders to encourage other petrochemical plants to use this innovative technology.

What are the key research and innovation goals of the project and their expected impact?

The REWATCH innovative system includes a prototype with five different technologies to constitute a completely new treatment scheme: Actiflo®-based physicochemical pre-treatment (ballasted settling), moving bed biofilm reactor (MBBR), DuPontTM Ultrafiltration (UF), DuPontTM Reverse Osmosis (RO) and DuPontTM Ion Exchange (IER). The process is designed in such a way that the treated water may exit after any treatment step depending on the desired water quality. Unlike other reusing technologies, with this project, industrial wastewater could be treated in the same place it is generated and where it can potentially be used again. REWATCH project will also develop a decision support tool to predict the environmental and economic benefits of the new technology, and encourage other petrochemical plants to implement the innovative water reuse scheme in their facilities.





Sim4Nexus



COORDINATOR Floor Brouwer

ORGANIZATION Stichting Wageningen Research - WR

Starting Date 1-jun-16

Duration 48 months

Total Costs € 7,895,657.50

EU Contribution € 7,895,657.50

Project reference H2020-WATER-2015-two-stage: 689150

Number or partners 27

Website www.sim4nexus.eu



What is the project about?

SIM4NEXUS is the acronym of the EU-funded project 'Sustainable Integrated Management for the nexus of water-land-food-energy-climate for a resource-efficient Europe'. SIM4NEXUS addresses all these resources and their interlinkages, and also accounts for the possible impact on these elements in response to climate and relevant policy changes. Twelve case studies are implemented to test them at different scales (i.e. regional, national, transboundary, European and global). Barriers to a resource efficient and low-carbon Europe are addressed, including policy inconsistencies and incoherence and knowledge gaps related to the complex interactions.

Gaming has been established as means for understanding policies, leading to acceptance, mitigating conflicts and seeking compromise. However, to our best knowledge, a Serious Game has never been developed for the nexus based on such an extensive list of scientifically sound models and methodologies. Serious Games are developed in SIM4NEXUS as an enhanced visualisation tool, assisting users in better understanding and visualising policies at different scales, towards a better scientific understanding of the Nexus of water-land-food-energy-climate.

What are the specific challenges the project addresses?

Water, energy, food, land and climate are tightly connected, and actions on one sector impact other sectors, creating feedbacks and unanticipated consequences. There is a need to train practitioners and students to address societal challenges (e.g. transition to a low-carbon economy and resource efficiency) with complex features (e.g. interdependence between water-land-food-energy-climate). Serious Games do facilitate dialogue and stimulate learning regarding such challenging topics. Playing Serious Games is an emerging area to connect ideas from different domains (e.g. water, energy, food, land and climate). Alternative solutions are debated and compared with a perspective to co-create shared solutions. The main purpose of these serious games should be to enable stakeholders to understand and learn about the medium and long-term implications of nexus-related policies.

What are the key research and innovation goals of the project and their expected impact?

The scientific understanding of the water-food-land-energy-climate nexus is improved, and applicable at a range of scales (regional, national, transboundary, European and global).

Serious Games are proposed to explore a long-term (3-5 decades) integrated approach to business and policy planning and a training tool for use with local educators, considering resilience, environmental protection and low-carbon development. They combine a fun activity with being a learning component. It is used for purposes other than mere entertainment, for education, decision making and public policy making.





AfriAlliance



COORDINATOR
Uta Wehn

ORGANIZATION Stichting IHE Delft Institute For Water Education - IHE Delft

Starting Date 1-march-16

Duration 60 months

Total Costs € 3,238,735.00

EU Contribution € 3,238,735.00

Project reference H2020-WATER-2015-onestage: 689162

Number or partners 16

Website www.afrialliance.org



What is the project about?

Africa is one of the regions most in need of innovative solutions for tackling water and climate change-related challenges, yet many parts of Africa are also suffering from the lack of water-related skills and capacity as well as wide-spread institutional fragmentation. The AfriAlliance project aims to better prepare Africa for future climate change challenges by having African and European stakeholders work together in the areas of water innovation, research, policy, and capacity development.

What are the specific challenges the project addresses?

The water sector is facing enormous challenges due to climate change, rapid population growth, rising demand for water, increasing pollution of sources, which altogether lead to ever more insecure water resources. Specifically, in Africa, the lack of appropriate water-related skills and capacity, the wide-spread institutional fragmentation within Africa as well as between Africa and the EU is a major obstacle to meeting the Sustainable Development Goals and addressing water crises, many with severe Climate Change implications. In addition to this, the lack of effective synergies between policy, research and entrepreneurs in Africa means that current mechanisms to effectively transfer relevant EU knowledge and technologies to African economies or vice versa are not enough to accomplish market uptake and provide solutions for pressing local water problems in Africa. This is where AfriAlliance steps in to address these challenges by increasing the preparedness to address the vulnerability of water and climate change-related challenges.

What are the key research and innovation goals of the project and their expected impact? Among the key goals of the project is to promote and implement a strengthened coordination within Africa and between Africa and the EU, increasing this way the interactions

among well-connected and comprehensive group of stakeholders capable to better address current and emerging water and Climate Change related Challenges. Thus, AfriAlliance is playing a vital role in minimising the existing fragmentation by connecting the broader water sector community in Africa with the EU and other relevant international actors. Through its activities, AfriAlliance enhances knowledge sharing and technology transfer in online and offline environments and events for African and EU stakeholders. The project has been also producing dynamic catalogues of demand-driven R&I opportunities to address short-term challenges and demand-driven R&I agendas identifying long-term knowledge needs, the same moment that it is expected to deliver a variety of monitoring and forecasting tools and processes for water and climate.





EnergyWater



COORDINATORDavid González

ORGANIZATION Instituto Tecnológico De Castilla Y León - ITCL

Starting Date 1-feb-16

Duration 36 months

Total Costs € 1,971,187.50

EU Contribution € 1,971,187.50

Project reference H2020-EE-2015-3-Market Uptake: 696112

Number or partners

Website www.energywater-project.eu



The 3-years' project, EnergyWater started its activities in 2016, led by ITCL. The main objective was to provide support to SMEs by enabling energy efficient water processes, through the development of the Energy Management Self-Assessment (EMSA)-web tool and the creation of the Energy Angels Network. The EMSA web-tool is a free and anonymous ICT tool created to compare and benchmark the energy performance in industrial water process in European manufacturing industries. The implementation of the EMSA is supported by the Energy Angels network, a group of energy experts that, through the EMSA web tool, assisted companies to evaluate their water processes regarding the water-energy nexus, building energy efficiency indicators that could be compared with benchmarking strategies as well as be used to identify cost-saving measures. At the end of the project, a benchmarking database was built with 311 companies that anonymously compared their EE indicators, enabling them to know their energy efficiency status compared against other companies at EU level.

What were the specific challenges the project addressed?

The EnergyWater proposal addressed the topic "EE 16–2014/2015: Organizational innovation to increase energy efficiency in industry" as well as the following specific areas "industrial systems efficiency benchmarking" and "energy management in SMEs and industry". In this sense, two main aspects have to be taken into consideration in order to remove market barriers that block EE improvement on SMEs: having access to reliable information about saving potentials (through the EMSA web tool) and after that, having access to skilled providers (through the Energy Angels Network) who share not only a strong experience in this area but also a services portfolio that gives real solutions to real industrial problems.

What were the key research and innovation achievements of the project and their related impact?

After the implementation of the EMSA web-tool and the Energy Angels network, we have concluded that at an SME level, the market is divided between few companies with a high level of energy culture and a majority without a figure entirely involved in energy efficiency management. It is in the second category where the effort of this project has been carried out. A great saving potential has been detected in these companies, and solutions were proposed to overcome the energy market barriers, thanks to the EMSA tool and the Energy Angels network. Part of this potential could be exploited, however, a great part is blocked by other barriers that are not in the market, but within the companies themselves, such as lack of information and resources to assess their efficiency. Based on this, one of the conclusions of the project, in addition to removing market barriers, is to carry out programmes focused on building capacities to transform people into energy managers, enabling them to increase their energy culture and access the energy market with guarantees.







Saving-E



COORDINATOR

Julián Carrera

ORGANIZATION Universitat Autònoma De Barcelona

Starting Date 1-oct-15

Duration 42 months

Total Costs € 1,169,068.00

EU Contribution € 672,645.00

Project reference LIFE15 ENV/ES/000633

Number or partners

Website www.saving-e.eu



What was the project about?

SAVING-E was a pilot project dealing with the transformation of the current wastewater treatment plants from being energy-consumers to energy-sufficient or even energy-producer facilities, without affecting their performance or even improving it.

What were the specific challenges the project addressed?

For many years now, the EU has been taking steps towards the reduction of nitrogen and phosphorous loads in the environment but only 6 Member States have an overall UWWT compliance higher than 90% for tertiary treatment, while the rest of Member States has less than 60% of implementation. So, there has been an urgent need for implementing cheap and efficient tertiary treatment. Currently, urban wastewater treatment plants (WWTPs) are net-energy-consumers systems and this consumption can be quantified in 8-16 kWh/person/year depending on the type of treatment, being the classical nitrification/denitrification the most consuming process. In EU, this means an energy consumption of 4000-8000 GWh/year for treating wastewater, which represents an emission of 3-6 Mtons CO2/year. Both energy costs and greenhouse emissions are important and there is an urgent need to develop new technologies able to reduce them. Responding to this burning need, the SAVING-E project dealt with the radical re-engineering of current wastewater treatment processes in order to improve energy trades and flow of materials.

What were the key research and innovation achievements of the project and their related impact?

The main result of the SAVING-E project is that its innovative technology has significant positive impacts such as energy savings and reduction of operational costs. In addition to this, the implementation of the project's activities has resulted in bringing forward important socio-economic benefits in Spain but also in other parts of Europe. SAVING-E has succeeded in boosting employment in the water and industrial sectors through the generation of technical and specialized job profiles (engineers, technicians, operators) that are needed in granular sludge, N removal via nitrite and self-sufficient energy WWTP. The wide range of training programmes developed throughout this project has also left behind a stock of training courses, responding to the training needs of professionals of the wastewater market in advanced treatment solutions. Moreover, the children and young educational programmes offered through the project have contributed significantly to increasing the social awareness about wastewater treatment. Equally important have also been the innovation activities of the project (Open Innovation, Hackathon: challenges in the water sector, best thesis award) that set a great example of innovative approaches in the sector and motivate water utilities and their consultants to take into account innovation in public service contracts





WIDEST



COORDINATORGabriel Anzaldi Varas

ORGANIZATION Bdigital

Starting Date 1-feb-15

Duration 24 months

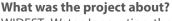
Total Costs € 1,022,030.00

EU Contribution € 1,022,030.00

Project reference H2020-WATER-2014-one-stage: 642423

Number or partners 7

Website www.widest.eu



WIDEST, Water Innovation through Dissemination Exploitation of Smart Technologies, was a Coordination and Support Action funded by the EU research and innovation programme Horizon 2020. The role of ICT in contributing to the "Smart Technologies is widely recognised by the scientific community and water business professionals. WIDEST contributed to developing a thriving and interconnected Information and Communication Technology network for the whole Water Community. WIDEST's main objective was to promote the dissemination and exploitation of the results of European Union funded activities in this area, along with all the relevant advances achieved in the sector.

What were the specific challenges the project addressed?

The project contributed strategically to overcoming several barriers for the implementation of smart water technologies such as: the fragmentation of the sector, slow adoption of new technologies, integration of domain and digital knowledge, and no holistic vision of water supply considering its whole life cycle. WIDEST has addressed its goals through a project-to-project approach and the coordination among relevant stakeholders by means of specific objectives that included: common standards approaches; strategic documents; a portfolio of effective ICT for water management technologies including the methodology to build it; and update and execute it literature reviews of relevant academic and commercial references. The project was backed by a strong consortium composed by institutions with proven track record and expertise across different facets of ICT for water research, including established connections with key stakeholders.

What were the key research and innovation achievements of the project and their related impact?

WIDEST has created the ICT for Water observatory to become a "benchmark" at European level in the application of intelligent tools in water management. The initiative fostered the transfer of knowledge among the relevant players in the water sector and has promoted events, conferences and workshops that have impacted in more than 400 companies directly. Under the umbrella of WIDEST, four roadmaps have been published, three thematic themed roadmaps, such as "Semantic Interoperability and Ontologies", "Smart City Connection" and "Smart Water Grids" and a strategy on intelligent water management available at beginnings. These roadmaps, together with other strategic materials, have contributed as reference, for the strategies developed by the ICT4Water cluster, which concluded in the Action Plan for a Digital Single Market of Water Services. The initiative, ended in February 2017, and its objectives continue being actively developed through the ICT4Water Cluster.







WATERPIPP



COORDINATOR Natacha Amorsi



COORDINATORGilles Neveu

ORGANIZATION Office International De L'eau - OIEAU

Starting Date 1-jan-14

Duration 36 months

Total Costs € 998,843.00

EU Contribution € 998,843.00

Project reference FP7-ENV-2013-WATER-IN-NO-DEMO: 619069

Number or partners 12

Website www.waterpipp.eu

What was the project about?

Public procurement represents around 19% of the EU's GDP, an important lead market for innovators in particular in the water and climate change sectors. However, procurement of innovative water-related services and technologies is often underexploited in the public sector. The core of the WaterPIPP project was to help change this by gathering together experts and practitioners in the area of water-related public procurement to identify existing barriers and bottlenecks and issue recommendations for policy-makers and public procurers; and by acting as an information hub providing the latest and most relevant information about the procurement of innovative products and services in the water sector. The community of practitioners openly discussed the Innovation-oriented Public Procurement procedures (IOPP) in the water sector, including Pre-Commercial Procurement (PCP) and Procurement of Innovation (PPI).

What were the specific challenges the project addressed?

Despite excellent knowledge and technologies, the European innovation potential in the water sector is blocked by a number of bottlenecks. Among the challenges that WaterPiPP project addressed is first and foremost, fragmentation. The water sector is very fragmented, with many 'point solutions' and a very large number of small management bodies. That implies that public sector often lacks the necessary expertise to assess and value correctly new approaches and technologies, thus preventing existing resources to flow to these new domains. Hesitation of the public sector to act as a launching customer was another challenge of the project, as well as the risk-averse approach that prevails in the sector. The specific regulatory structure of public procurement markets, where tenders and subcontracts rely on process guarantees, tends to favour technologies which already have a tracked record of successful operations, thus making the sector cautious in new technologies.

What were the key research and innovation achievements of the project and their related impact?

The project tested new approaches to stimulate the uptake of innovation in the water sector. In March 2015, 15 recommendations were adapted, and all were validated by the WaterPiPP consortium partners as well as additional experts. Based on these practical and strategic recommendations, the EIP Water and the project consortium started their joint proposition in Fall 2015 and onwards. The accompanying measures of coaching and training made the stakeholders community knowledgeable about innovative procurement and enabled the public procurer to be more confident in undertaking PCP&PPI initiatives. A MOOC is available (FR, SP), as well as the project outputs here. It also contributed to identify, select, prioritize and prepare viable procurements, corresponding to real challenges and needs in the water sector, giving support and related training to the pilot procurers and mutualising on good practices available in other sectors. Lessons from WaterPiPP were used for defining the on-going project Smart.Met, a PCP for developing a new generation of smart meters.





ZELDA



COORDINATORSandra Meca

ORGANIZATION Fundacio Eurecat -Eurecat

Starting Date 1-jul-13

Duration 48 months

Total Costs € 2,301,553.00

EU Contribution € 1,021,775.00

Project referenceLIFE12 ENV/ES/000901

Number or partners

Website www.life-zelda.eu



What was the project about?

Seawater and brackish water desalination are currently considered one of the best options to face up the water scarcity problem. However, this technology generates high amounts of brines that must be managed. In coastal desalination plants, brines are discharged to the sea while in the inland plants, deep well injection and surface water or groundwater discharge are the most common options. These management strategies have a high environmental impact. Responding to the need of a brine management strategy that makes desalination a sustainable technology at environmental, economical and social level, ZELDA project proposed an innovative brine treatment system sustainable at all levels decreasing the environmental impact associated to desalination processes.

What were the specific challenges the project addressed?

The main objective of the project was to demonstrate the technical feasibility and economical sustainability of decreasing the overall environmental impact of desalination systems. To do so, the main challenges of the ZELDA project were to validate an innovative brine treatment system based on the use of electrodialysis metathesis (EDM) and valuable compound recovery processes with the final aim of reaching a zero liquid discharge (ZLD) process. Besides, the project aimed to promote social awareness about the environmental impact of current brine discharge strategies.

What were the key research and innovation achievements of the project and their related impact?

ZELDA project demonstrated the technical and economic viability of an innovative ZLD process based on EDM using novel monovalent membranes, physico-chemical treatments and advanced solar evaporation for recovering up to 80% of water and valuable chemical compounds (Mg(OH)2, Na2SO4, NaCl) from brines. The ZLD strategy allows to increase the overall water recovery in seawater and brackish water desalination plants and reduce the environmental impact of current brine discharge strategies. ZELDA project offers a clear benefit in Europe, and especially to those zones, as the Mediterranean region, with severe water stress, fighting against the impacts of climate change without being a threat.











Section 3

Overview of Water Europe members' water-related projects 2014-2019

3.1 H2020 funding programme

PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
CUTLER	01/01/2018	31/12/2020	€ 5.080.125,00	€ 5.080.125,00	Coastal Urban Development Through The Lenses Of Resiliency
INNOQUA	01/06/2016	31/05/2020	€ 8.073.725,29	€ 6.996.213,75	Innovative Ecological On-Site Sanitation System For Water And Resource Savings
MADFORWATER	01/06/2016	31/05/2020	€ 4.039.418,75	€ 2.910.868,75	Development And Application Of Integrated Technological And Management Solutions For Wastewater Treatment And Efficient Reuse In Agriculture Tailored To The Needs Of Mediterranean African Countries
VicInAqua	01/06/2016	31/05/2019	€ 2.997.710,00	€ 2.997.710,00	Integrated Aquaculture Based On Sustainable Water Recirculating System For The Victoria Lake Basin (Vicinaqua)
NanoFASE	01/09/2015	31/08/2019	€ 11.296.701,25	€ 9.954.475,50	Nanomaterial Fate And Speciation In The Environment
VALUEMAG	01/04/2017	31/03/2020	€ 4.789.000,00	€ 4.789.000,00	Valuable Products From Algae Using New Magnetic Cultivation And Extraction Techniques
INTEGROIL	01/06/2016	31/05/2019	€ 5.794.442,50	€ 4.273.536,26	Demonstration Of A Decision Support System For A Novel Integrated Solution Aimed At Water Reuse In The Oil & Gas Industry
LoTGlasSy	01/06/2016	31/05/2021	€ 1.760.000,00	€ 1.760.000,00	Low Temperature Glassy Systems
WATERSPOUTT	01/06/2016	31/05/2020	€ 3.571.945,83	€ 3.084.351,25	Water - Sustainable Point-Of-Use Treatment Technologies
AquaNES	01/06/2016	31/05/2019	€ 10.720.718,13	€ 7.837.292,22	Demonstrating Synergies In Combined Natural And Engineered Processes For Water Treatment Systems
Ko-Tsah-To	01/09/2016	31/08/2018	€ 177.598,80	€ 177.598,80	Temperatures, Ash And Soil Hydrology: Predicting Fire Impact From Plant Traits
WATERPROTECT	01/06/2017	31/05/2020	€ 4.997.006,50	€ 4.997.006,50	Innovative Tools Enabling Drinking Water Protection In Rural And Urban Environments
TEMPDEP	01/05/2016	30/04/2021	€ 1.499.997,50	€ 1.499.997,50	Ecological And Evolutionary Constraints On The Temperature Dependence Of The Carbon Cycle
STRONGRCRAFT	01/02/2018	31/01/2023	€ 2.666.150,00	€ 1.957.658,75	Safe, Technically Robust And Optical New Generation Fuel System To Be Integrated On New Rotorcraft
MEACTOS	01/09/2017	31/08/2021	€ 4.002.645,00	€ 2.550.798,44	Mitigating Environmentally Assissted Cracking Through Optimisation Of Surface Condition
FIBRESHIP	01/06/2017	31/05/2020	€ 11.041.212,50	€ 8.866.322,75	Engineering, Production And Life- Cycle Management For The Complete Construction Of Large-Length Fibre-Based Ships



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
TomRes	01/06/2017	30/11/2020	€ 5.996.175,00	€ 5.996.175,00	A Novel And Integrated Approach To Increase Multiple And Combined Stress Tolerance In Plants Using Tomato As A Model
LTPAM	01/05/2017	30/04/2019	€ 172.800,00	€ 172.800,00	Low Temperature Plasma For Applications In Medicine
Ground Truth 2.0	01/09/2016	31/12/2019	€ 5.755.298,45	€ 4.975.093,89	Ground Truth 2.0 - Environmental Knowledge Discovery Of Human Sensed Data
AMBER	01/06/2016	30/09/2020	€ 6.238.103,75	€ 6.020.172,75	Adaptive Management Of Barriers In European Rivers
SIM4NEXUS	01/06/2016	31/05/2020	€ 7.895.657,50	€ 7.895.657,50	Sustainable Integrated Management For The Nexus Of Water-Land-Food-Energy-Climate For A Resource-Efficient Europe
CHESS-SETUP	01/06/2016	31/05/2020	€ 3.718.454,57	€ 3.364.315,14	Combined Heat System By Using Solar Energy And Heat Pumps
BRIGAID	01/05/2016	30/04/2020	€ 8.817.445,10	€ 7.739.805,79	Bridges The Gap For Innovations In Disaster Resilience
metaVir-Alp	01/11/2016	31/10/2018	€ 180.277,20	€ 180.277,20	Alpine Lakes Benthic Viral Community Structure And Diversity: A Metagenomic And Ecological Approach
EnergyWater	01/02/2016	31/01/2019	€ 1.971.187,50	€ 1.971.187,50	Improving Energy Efficiency In Industrial Water Processes Through Benchmarking And Benchlearning Tools In Europe Manufacturing Industry.
MATCHING	01/03/2016	31/08/2019	€ 11.790.518,76	€ 9.706.413,77	Materials Technologies For Performance Improvement Of Cooling Systems In Power Plants
SURE	01/03/2016	31/08/2019	€ 6.143.415,00	€ 5.892.165,00	Novel Productivity Enhancement Concept For A Sustainable Utilization Of A Geothermal Resource
OptiNanoPro	01/10/2015	30/09/2018	€ 6.920.685,00	€ 5.516.910,00	Processing And Control Of Novel Nanomaterials In Packaging, Automotive And Solar Panel Processing Lines
SESAME	01/04/2015	31/03/2019	€ 6.643.280,00	€ 5.200.000,00	Thermal Hydraulics Simulations And Experiments For The Safety Assessment Of Metal Cooled Reactors
BioSmartTra- inee	01/10/2015	30/09/2019	€ 2.822.328,36	€ 2.822.328,36	Training In Bio-Inspired Design Of Smart Adhesive Materials
IVMR	01/06/2015	30/11/2019	€ 8.205.085,00	€ 4.831.454,00	In-Vessel Melt Retention Severe Accident Management Strategy For Existing And Future Npps
VOXEL	01/06/2015	31/05/2019	€ 3.996.875,00	€ 3.996.875,00	Volumetric Medical X-Ray Imaging At Extremely Low Dose
SOTERIA	01/09/2015	31/08/2019	€ 13.888.769,25	€ 4.971.297,00	Safe Long Term Operation Of Light Water Reactors Based On Improved Understanding Of Radiation Effects In Nuclear Structural Materials
VIDA	01/04/2018	31/03/2021	€ 5.031.141,25	€ 4.988.766,25	Value-Added Innovation In Food Chains



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
SWS-HEATING	01/06/2018	31/05/2022	€ 5.236.488,75	€ 4.994.926,25	Development And Validation Of An Innovative Solar Compact Selective-Water- Sorbent-Based Heating System
PUMP-HEAT	01/09/2017	31/08/2020	€ 5.904.426,25	€ 5.904.426,25	Performance Untapped Modulation For Power And Heat Via Energy Accumulation Technologies
OPERA	01/02/2016	31/07/2019	€ 5.741.263,75	€ 5.741.263,75	Open Sea Operating Experience To Reduce Wave Energy Cost
WaterWatt	01/04/2016	31/03/2019	€ 1.782.532,50	€ 1.782.532,50	Improvement Of Energy Efficiency In Industrial Water Circuits Using Gamification For Online Self-Assessment, Benchmarking And Economic Decision Support
DCS4COP	01/12/2017	30/11/2020	€ 2.266.538,75	€ 1.981.929,88	Datacube Service For Copernicus
CLAIM	01/11/2017	31/10/2021	€ 6.185.612,75	€ 5.654.786,01	Cleaning Litter By Developing And Applying Innovative Methods In European Seas
LIFES 50plus	01/06/2015	30/04/2019	€ 7.274.837,50	€ 7.274.837,50	Qualification Of Innovative Floating Substructures For 10mw Wind Turbines And Water Depths Greater Than 50m.
BINGO	01/07/2015	30/09/2019	€ 7.822.422,50	€ 7.822.422,50	Bringing Innovation To Ongoing Water Management – A Better Future Under Climate Change
INCEFA - PLUS	01/07/2015	30/06/2020	€ 6.140.668,75	€ 2.550.128,00	Increasing Safety In Npps By Covering Gaps In Environmental Fatigue Assessment
EBBR	01/05/2015	31/10/2015	€ 71.429,00	€ 50.000,00	Commercialisation Of Expanded Bed Biofilm Reactor Technology For The Treatment Of Waste-, Used- Or Contaminated-Water And For Improved Protection Of The Aquatic Environment And Atmosphere
IMPREX	01/10/2015	30/09/2019	€ 7.996.848,00	€ 7.996.848,00	Improving Predictions And Management Of Hydrological Extremes
HPEM2GAS	01/04/2016	30/09/2019	€ 2.654.250,00	€ 2.499.999,00	High Performance Pem Electrolyzer For Cost-Effective Grid Balancing Applications
COREWIND	01/09/2019	28/02/2023	€ 5.031.858,75	€ 5.031.858,75	Cost Reduction And Increase Performance Of Floating Wind Technology
ECORISK2050	10/10/2018	09/10/2022	€ 3.596.088,24	€ 3.596.088,24	Effects Of Global Change On The Emission, Fate, Effects And Risks Of Chemicals In Aquatic Ecosystems
MegaRoller	01/05/2018	30/04/2021	€ 4.946.768,75	€ 4.946.768,75	Developing The Pto Of The First Mw-Level Oscillating Wave Surge Converter
eSCALED	01/04/2018	31/03/2022	€ 3.599.025,20	€ 3.599.025,20	European School On Artificial Leaf : Electrodes Devices
MAGIC	01/06/2016	31/05/2020	€ 7.457.761,25	€ 7.457.761,25	Moving Towards Adaptive Governance In Complexity: Informing Nexus Security
WASTE2FUELS	01/01/2016	31/12/2018	€ 5.989.743,75	€ 5.989.742,50	Sustainable Production Of Next Generation Biofuels From Waste Streams
FERTINNOWA	01/01/2016	31/12/2018	€ 2.999.273,40	€ 2.999.273,40	Transfer Of Innovative Techniques For Sustainable Water Use In Fertigated Crops
SolHyPro	01/06/2015	31/05/2017	€ 170.509,20	€ 170.509,20	Water Splitting By Solar Energy: From Lab-Scale To Prototype Devices



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
PHYSIO-POP	01/09/2015	31/08/2017	€ 172.800,00	€ 172.800,00	Physiological And Environmental Controls Of Water And Ozone Fluxes In A Short Rotation Poplar Plantation: From Leaf To Tree To Ecosystem Scale
NANOCARB	15/04/2015	14/04/2017	€ 180.277,20	€ 180.277,20	Self-Selection Of A Multivalent Nanosystem For Carbohydrate Recognition
ENERWATER	01/03/2015	31/10/2018	€ 1.731.087,00	€ 1.731.087,00	Standard Method And Online Tool For Assessing And Improving The Energy Efficiency Of Wastewater Treatment Plants
RE-InVEST	01/03/2015	30/04/2019	€ 2.499.600,00	€ 2.499.600,00	Rebuilding An Inclusive, Value-Based Europe Of Solidarity And Trust Through Social Investments
VEZ	01/11/2014	31/08/2015	€ 71.429,00	€ 50.000,00	Vez
DARWIN	01/06/2015	30/09/2018	€ 4.998.896,25	€ 4.998.896,25	Expecting The Unexpected And Know How To Respond
WIDEST	01/02/2015	31/01/2017	€ 1.022.030,00	€ 1.022.030,00	Water Innovation Through Dissemination Exploitation Of Smart Technologies
BlueSCities	01/02/2015	31/01/2017	€ 995.918,75	€ 995.918,75	Blueprints For Smart Cities: Developing The Methodology For A Coordinated Approach To The Integration Of The Water And Waste Sectors Within The Eip Smart Cities And Communities
C-CASCADES	01/01/2015	31/12/2018	€ 3.112.980,61	€ 3.112.980,61	Carbon Cascades From Land To Ocean In The Anthropocene
WaterWor- ks2014	01/02/2015	31/01/2020	€ 17.423.501,00	€ 5.749.755,33	Water Works 2014-2019 In Support Of The Water Jpi
WATERINNEU	01/03/2015	28/02/2017	€ 914.991,04	€ 914.991,00	Applying European Market Leadership To River Basin Networks And Spreading Of Innovation On Water Ict Models, Tools And Data
ShaleXenviron- menT	01/09/2015	31/08/2018	€ 3.399.201,75	€ 2.999.201,25	Maximizing The Eu Shale Gas Potential By Minimizing Its Environmental Footprint
HYPERNETS	01/02/2018	31/01/2022	€ 4.999.233,75	€ 4.999.233,75	A New Hyperspectral Radiometer Integrated In Automated Networks Of Water And Land Bidirectional Reflectance Measurements For Satellite Validation
CarbFix2	01/08/2017	31/01/2021	€ 2.200.318,75	€ 2.200.318,00	Upscaling And Optimizing Subsurface, In Situ Carbon Mineralization As An Economically Viable Industrial Option
FAirWAY	01/06/2017	31/05/2021	€ 4.999.865,00	€ 4.999.865,00	Farm Systems That Produce Good Water Quality For Drinking Water Supplies
SolACE	01/05/2017	30/04/2022	€ 7.192.148,75	€ 6.000.000,00	Solutions For Improving Agroecosystem And Crop Efficiency For Water And Nutrient Use
STOP-IT	01/06/2017	31/05/2021	€ 9.616.525,18	€ 8.255.319,50	Strategic, Tactical, Operational Protection Of Water Infrastructure Against Cyber-Physical Threats
AFTERLIFE	01/09/2017	31/08/2021	€ 4.180.166,38	€ 3.890.593,13	Advanced Filtration Technologies For The Recovery And Later Conversion Of Relevant Fractions From Wastewater



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
SARAH	01/10/2016	30/09/2019	€ 6.636.395,00	€ 6.636.393,75	Increased Safety And Robust Certification For Ditching Of Aircrafts And Helicopters
MANTEL	01/01/2017	31/12/2020	€ 3.056.654,16	€ 3.056.654,16	Management Of Climatic Extreme Events In Lakes Reservoirs For The Protection Of Ecosystem Services
DATA4WATER	01/01/2016	31/12/2018	€ 999.493,75	€ 999.493,75	Excellence In Smart Data And Services For Supporting Water Management
SElySOs	02/11/2015	01/11/2019	€ 2.939.655,00	€ 2.939.655,00	Development Of New Electrode Materials And Understanding Of Degradation Mechanisms On Solid Oxide High Temperature Electrolysis Cells
EU-CIRCLE	01/06/2015	30/09/2018	€ 7.283.525,00	€ 7.283.525,00	A Paneuropean Framework For Strengthening Critical Infrastructure Resilience To Climate Change
LANDMARK	01/05/2015	31/10/2019	€ 5.307.551,25	€ 4.999.663,00	Land Management: Assessment, Research, Knowledge Base
MistAndClean	01/03/2019	31/05/2019	€ 71.429,00	€ 50.000,00	Upscaling Production And Adding New Product Lines To The Unique And Patented Water-To-Mist Technology That Reduces Water Use By 98% Without Loss Of Functionality And Keeping A High User Experience
NAVAIS	01/06/2018	31/05/2022	€ 7.915.781,75	€ 6.589.361,38	New, Avanced And Value-Added Innovative Ships
FotoH2	01/01/2018	31/12/2020	€ 2.578.971,25	€ 2.578.971,25	Innovative Photoelectrochemical Cells For Solar Hydrogen Production
MELOA	01/12/2017	28/02/2021	€ 4.694.844,75	€ 4.694.844,75	Multi-Purpose/Multi-Sensor Extra Light Oceanography Apparatus
MSO4SC	01/10/2016	30/09/2018	€ 2.435.064,50	€ 2.435.064,50	Mathematical Modelling, Simulation And Optimization For Societal Challenges With Scientific Computing
EOMORES	01/12/2016	30/11/2019	€ 2.219.318,00	€ 2.005.861,66	Earth Observation Based Services For Monitoring And Reporting Of Ecological Status
EnvJustice	01/06/2016	31/05/2021	€ 1.910.811,00	€ 1.910.811,00	A Global Movement For Environmental Justice: The Ejatlas
INTCATCH	01/06/2016	31/01/2020	€ 8.770.935,00	€ 7.570.335,00	Development And Application Of Novel, Integrated Tools For Monitoring And Managing Catchments
MSP-REFRAM	01/12/2015	30/06/2017	€ 1.499.760,00	€ 1.499.760,00	Multi-Stakeholder Platform For A Secure Supply Of Refractory Metals In Europe
MinWaterCSP	01/01/2016	31/12/2018	€ 5.861.371,75	€ 5.861.371,75	Minwatercsp - Minimized Water Consumption In Csp Plants
INTMET	01/02/2016	31/01/2019	€ 7.834.976,25	€ 7.834.976,25	Integrated Innovative Metallurgical System To Benefit Efficiently Polymetallic, Complex And Low Grade Ores And Concentrates
CERES	01/03/2016	29/02/2020	€ 5.586.851,25	€ 5.586.851,25	Climate Change And European Aquatic Resources



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
Blue Nodules	01/02/2016	31/07/2020	€ 7.991.137,50	€ 7.991.137,50	Breakthrough Solutions For The Sustainable Harvesting And Processing Of Deep Sea Polymetallic Nodules
EXCELLABUST	01/01/2016	31/12/2018	€ 1.014.551,00	€ 1.014.551,00	Excelling Labust In Marine Robotics
WASCOP	01/01/2016	31/12/2019	€ 5.941.607,50	€ 5.941.607,50	Water Saving For Solar Concentrated Power
C-FOOT-CTRL	01/04/2015	31/03/2019	€ 711.000,00	€ 711.000,00	Developing On Line Tools To Monitor, Control And Mitigate Ghg Emissions In Wwtps
NANOLEAP	01/01/2015	30/06/2018	€ 7.679.159,25	€ 6.878.348,75	"Nanocomposite For Building Constructions And Civil Infraestructures: European Network Pilot Production Line To Promote Industrial Application Cases"
PAVITRA GAN- GA	01/02/2019	31/01/2023	€ 4.731.647,50	€ 3.074.821,25	Unlocking Wastewater Treatment, Water Re- Use And Resource Recovery Opportunities For Urban And Peri-Urban Areas In India
ColiSense Online	01/07/2019	30/06/2021	€ 2.413.375,00	€ 1.689.362,50	Online And Automated E. Coli Monitoring For 100% Safe Drinking Water
PANI WATER	01/02/2019	31/01/2023	€ 4.969.748,50	€ 3.576.532,50	Photo-Irradiation And Adsorption Based Novel Innovations For Water-Treatment
PANTROP	01/09/2019	31/08/2024	€ 2.499.895,00	€ 2.499.895,00	Biodiversity And Recovery Of Forest In Tropical Landscapes
REPARES	01/10/2019	30/09/2022	€ 781.856,25	€ 781.856,25	Research Platform On Antibiotic Resistance Spread Through Wastewater Treatment Plants
DEEPFIELD	01/10/2019	30/09/2022	€ 799.975,00	€ 799.975,00	Deepfield- Deep Learning In Field Robotics: From Conceptualization Towards Implementation
Bac-To-Fuel	01/01/2019	31/12/2021	€ 2.999.922,50	€ 2.999.919,00	Bacterial Conversion Of Co2 And Renewable H2 Into Biofuels
WaysTUP!	01/09/2019	28/02/2023	€ 11.670.317,81	€ 9.348.929,35	Value Chains For Disruptive Transformation Of Urban Biowaste Into Biobased Products In The City Context
DEEP PURPLE	01/05/2019	30/04/2023	€ 9.527.581,25	€ 6.983.049,99	Conversion Of Diluted Mixed Urban Bio-Wastes Into Sustainable Materials And Products In Flexible Purple Photobiorefineries
AUTOSHIP	01/06/2019	30/11/2022	€ 27.679.830,00	€ 20.109.109,13	Autonomous Shipping Initiative For European Waters
DOGMATICC	01/10/2019	30/09/2022	€ 319.400,64	€ 319.400,64	Digestion, Osmoregulation And Metabolism In Fish Relevant To Aquaculture And In A Changing Climate
HACKS	01/09/2019	31/08/2022	€ 2.159.045,75	€ 2.159.033,50	Heating And Cooling Know-How And Solutions
LEMON	01/01/2019	31/12/2022	€ 3.374.725,00	€ 3.374.725,00	Lidar Emitter And Multispecies Greenhouse Gases Observation Instrument



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
EurofleetsPlus	01/02/2019	31/01/2023	€ 9.999.360,58	€ 9.999.360,58	An Alliance Of European Marine Research Infrastructure To Meet The Evolving Needs Of The Research And Industrial Communities
NAIADES	01/06/2019	31/05/2022	€ 5.729.753,75	€ 4.999.980,13	A Holistic Water Ecosystem For Digitisation Of Urban Water Sector
APPLAUSE	01/05/2019	30/04/2022	€ 34.558.714,32	€ 8.561.598,71	Advanced Packaging For Photonics, Optics And Electronics For Low Cost Manufacturing In Europe
CropBooster-P	01/11/2018	31/10/2021	€ 2.996.942,50	€ 2.996.942,50	Preparatory Action To Boost Global Crop Yield For Food & Nutrition Security And Fueling A Bioeconomy
REFLOW	01/01/2019	31/12/2022	€ 3.469.774,68	€ 3.469.774,68	Phosphorus Recovery For Fertilisers From Dairy Processing Waste
NextGen	01/07/2018	30/06/2022	€ 11.389.106,04	€ 9.965.230,51	Towards A Next Generation Of Water Systems And Services For The Circular Economy.
SuWaNu Eu- rope	01/01/2019	30/06/2021	€ 1.999.926,25	€ 1.999.926,25	Network For Effective Knowledge Transfer On Safe And Economic Wastewater Reuse In Agriculture In Europe
RESIST	01/03/2019	28/02/2023	€ 1.062.600,00	€ 1.062.600,00	Resurrection Plants Reveal Secrets Of Vegetative Desiccation Tolerance
Circular Agro- nomics	01/09/2018	31/08/2022	€ 7.021.764,70	€ 6.999.795,50	Circular Agronomics - Efficient Carbon, Nitrogen And Phosphorus Cycling In The European Agri-Food System And Related Up- And Down-Stream Processes To Mitigate Emissions
SUPER-G	01/06/2018	31/05/2023	€ 9.994.996,83	€ 9.994.996,83	Developing Sustainable Permanent Grassland Systems And Policies
SINCERE	01/01/2018	31/12/2021	€ 4.237.214,13	€ 3.991.234,38	Spurring Innovations For Forest Ecosystem Services In Europe
NEPTUNE	01/02/2018	31/01/2021	€ 1.927.335,43	€ 1.926.221,25	Next Generation Pem Electrolyser Under New Extremes
Wat-Qual	01/01/2018	31/12/2019	€ 243.000,00	€ 243.000,00	Water Quality In Drinking Water Distribution Systems
TWIGA	01/02/2018	31/01/2022	€ 5.006.823,54	€ 4.979.622,50	Transforming Weather Water Data Into Value-Added Information Services For Sustainable Growth In Africa
ROBORDER	01/05/2017	28/02/2021	€ 8.997.781,50	€ 7.999.315,82	Autonomous Swarm Of Heterogeneous Robots For Border Surveillance
ALICE	01/01/2017	31/12/2020	€ 900.000,00	€ 900.000,00	Accelerate Innovation In Urban Wastewater Management For Climate Change
TAOIDE	01/11/2016	31/10/2019	€ 3.237.773,75	€ 3.237.773,75	Technology Advancement Of Ocean Energy Devices Through Innovative Development Of Electrical Systems To Increase Performance And Reliability
ReWaCEM	01/10/2016	30/09/2019	€ 5.781.631,25	€ 5.041.866,76	Ressource Recovery From Industrial Waste Water By Cutting Edge Membrane Technologies



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
SPACE-O	01/11/2016	31/12/2018	€ 2.469.948,75	€ 2.002.087,50	Space Assisted Water Quality Forecasting Platform For Optimized Decision Making In Water Supply Services
INSPIREWater	01/10/2016	31/03/2020	€ 7.614.000,85	€ 5.377.879,50	Innovative Solutions In The Process Industry For Next Generation Resource Efficient Water Management
NAIAD	01/12/2016	30/11/2019	€ 5.081.176,25	€ 4.994.370,00	Nature Insurance Value: Assessment And Demonstration
SPOTVIEW	03/10/2016	02/04/2020	€ 8.498.102,75	€ 6.863.359,63	Sustainable Processes And Optimized Technologies For Industrially Efficient Water Usage
N2OPNA	01/11/2016	31/10/2018	€ 160.800,00	€ 160.800,00	Understanding Nitrous Oxide Production From The Mainstream Partial Nitritation And Anammox Process
ERN	01/02/2015	31/01/2017	€ 1.489.221,25	€ 1.489.221,25	The European Remanufacturing Network - Coordinating And Supporting European Remanufacturers
GRACeFUL	01/02/2015	31/01/2018	€ 2.404.943,75	€ 2.404.943,00	Global Systems Rapid Assessment Tools Through Constraint Functional Languages
SENTIENT	01/02/2018	31/01/2023	€ 1.499.941,00	€ 1.499.941,00	Scheduling Of Event-Triggered Control Tasks
EDEN ISS	01/03/2015	30/04/2019	€ 4.550.867,50	€ 4.535.869,00	Ground Demonstration Of Plant Cultivation Technologies And Operation In Space For Safe Food Production On-Board Iss And Future Human Space Exploration Vehicles And Planetary Outposts
FOWARIM	01/01/2016	31/12/2018	€ 960.125,00	€ 960.125,00	Fostering Water-Agriculture Research And Innovation In Malta
ICON-SE	01/03/2019	28/02/2021	€ 183.454,80	€ 183.454,80	Ichnological Analysis Of Core And Outcrop Contourite Facies: Scientific And Economic Implications
POWERSTEP	01/07/2015	30/06/2018	€ 5.173.854,75	€ 3.997.125,99	Full Scale Demonstration Of Energy Positive Sewage Treatment Plant Concepts Towards Market Penetration
MOSES	01/07/2015	31/10/2018	€ 4.249.262,50	€ 3.768.012,50	Managing Crop Water Saving With Enterprise Services
SUBSOL	01/09/2015	31/08/2018	€ 4.170.008,38	€ 3.460.565,24	Bringing Coastal Subsurface Water Solutions To The Market
CYTO-WATER	01/06/2015	31/05/2018	€ 2.368.298,75	€ 1.896.624,50	Integrated And Portable Image Cytometer For Rapid Response To Legionella And Escherichia Coli In Industrial And Environmental Waters
iMETland	01/09/2015	31/12/2018	€ 3.461.622,50	€ 2.924.810,25	Imetland: A New Generation Of Microbial Electrochemical Wetland For Effective Decentralized Wastewater Treatment
CReScenDo	01/06/2017	31/05/2019	€ 180.277,20	€ 180.277,20	Combining Remote Sensing Technologies For Peatland Detection And Characterization
INSPIRATION	01/04/2016	31/03/2020	€ 3.837.779,64	€ 3.837.779,64	Managing Soil And Groundwater Impacts From Agriculture For Sustainable Intensification
CAT	01/02/2016	31/01/2021	€ 1.499.631,00	€ 1.499.631,00	Climbing The Asian Water Tower



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
ЕоСоЕ	01/10/2015	30/09/2018	€ 5.689.521,11	€ 5.403.491,00	Energy Oriented Centre Of Excellence For Computer Applications
ANSWER	01/10/2015	30/09/2019	€ 3.708.689,76	€ 3.708.689,76	Antibiotics And Mobile Resistance Elements In Wastewater Reuse Applications: Risks And Innovative Solutions
METAL-AID	01/07/2016	30/06/2020	€ 3.716.533,44	€ 3.716.533,44	Metal Oxide Aided Subsurface Remediation: From Invention To Injection
WU TANG	01/11/2017	31/10/2022	€ 2.000.000,00	€ 2.000.000,00	Selective Conversion Of Water And Co2 Using Interfacial Electrochemical Engineering
REvivED water	01/05/2016	30/04/2020	€ 9.781.826,25	€ 7.633.672,01	Low Energy Solution For Drinking Water Production By A Revival Of Electrodialysis Systems
GEOTeCH	01/05/2015	30/04/2019	€ 9.025.458,75	€ 7.136.662,88	Geothermal Technology For €Conomic Cooling And Heating
PROTECT	01/01/2017	31/12/2020	€ 9.441.862,50	€ 7.478.985,00	Pre-Commercial Lines For Production Of Surface Nanostructured Antimicrobial And Anti-Biofilm Textiles, Medical Devices And Water Treatment Membranes
BIOWYSE	01/01/2016	31/12/2018	€ 3.000.000,00	€ 3.000.000,00	Biocontamination Integrated Control Of Wet Systems For Space Exploration
TIME SCALE	01/02/2015	30/04/2018	€ 3.871.209,36	€ 3.871.209,00	Technology And Innovation For Development Of Modular Equipment In Scalable Advanced Life Support Systems For Space Exploration
LiNaBioFluid	01/07/2015	30/06/2018	€ 3.024.827,50	€ 3.024.827,00	Laser-Induced Nanostructures As Biomimetic Model Of Fluid Transport In The Integument Of Animals
SHERPACK	01/06/2017	30/11/2020	€ 2.589.095,00	€ 1.294.445,00	Innovative Structured Polysaccharides- Based Materials For Recyclable And Biodegradable Flexible Packaging
FutureEUAqua	01/11/2018	31/10/2022	€ 7.083.501,25	€ 6.000.000,00	Future Growth In Sustainable, Resilient And Climate Friendly Organic And Conventional European Aquaculture
URBAN GreenUP	01/06/2017	31/05/2022	€ 14.777.185,67	€ 13.970.642,25	New Strategy For Re-Naturing Cities Through Nature-Based Solutions
NoAW	01/10/2016	30/09/2020	€ 7.816.232,50	€ 6.887.570,00	Innovative Approaches To Turn Agricultural Waste Into Ecological And Economic Assets
5TOI_4EWAS	01/05/2016	30/04/2019	€ 1.949.914,00	€ 1.949.644,00	Quintuple Helix Approach To Targeted Open Innovation In Energy, Water, Agriculture In The South Mediterranean Neighborhood
ambliFibre	01/09/2015	31/08/2018	€ 4.735.941,25	€ 4.735.941,25	Adaptive Model-Based Control For Laser- Assisted Fibre-Reinforced Tape Winding
SOLENALGAE	01/03/2016	28/02/2021	€ 1.441.875,00	€ 1.441.875,00	Improving Photosynthetic Solar Energy Conversion In Microalgal Cultures For The Production Of Biofuels And High Value Products



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
MOTOR	01/09/2015	31/08/2018	€ 4.302.875,00	€ 4.302.875,00	Multi-Objective Design Optimization Of Fluid Energy Machines
AQUAlity	01/10/2017	30/09/2021	€ 3.897.678,24	€ 3.897.678,24	Interdisciplinar Cross-Sectoral Approach To Effectively Address The Removal Of Contaminants Of Emerging Concern From Water
BASE-LiNE Earth	01/01/2015	31/12/2018	€ 3.749.331,24	€ 3.749.331,24	Brachiopods As Sensitive Tracers Of Global Marine Environment: Insights From Alkaline, Alkaline Earth Metal, And Metalloid Trace Element Ratios And Isotope Systems
BASE-platform	01/12/2015	30/11/2017	€ 2.222.394,95	€ 1.781.326,25	Bathymetry Service Platform
MIDES	01/04/2016	31/03/2020	€ 8.019.583,04	€ 6.328.164,13	Microbial Desalination For Low Energy Drinking Water
POLIS	01/12/2015	30/11/2017	€ 168.277,20	€ 168.277,20	Studying The Bricks Of Microbial Cities: Characterization And Structural Properties Of Exopolysaccharides And Their Interaction With Proteins And Cations In Anammox Granular Sludge
SWARMs	01/07/2015	31/07/2018	€ 17.168.626,68	€ 6.389.046,38	Smart And Networking Underwater Robots In Cooperation Meshes
POWER	01/12/2015	30/11/2019	€ 3.747.937,50	€ 3.747.937,50	Political And Social Awareness On Water Environmental Challenges
EpiAnodes	01/10/2015	30/09/2017	€ 170.509,20	€ 170.509,20	Heteroepitaxial A-Fe2o3 Photoanodes For Solar Water Splitting
NEPTUNE	01/07/2016	31/12/2018	€ 4.199.821,61	€ 4.158.735,25	New Cross Sectorial Value Chains Creation Across Europe Facilitated By Clusters For Smes's Innovation In Blue Growth
DAFNE	01/09/2016	31/08/2020	€ 5.420.222,68	€ 3.408.658,75	Dafne: Use Of A Decision-Analytic Fra- mework To Explore The Water-Energy-Food Nexus In Complex And Trans-Boundary Water Resources Systems Of Fast Growing Developing Countries
SMART-Plant	01/06/2016	31/05/2020	€ 9.768.806,09	€ 7.536.300,02	Scale-Up Of Low-Carbon Footprint Material Recovery Techniques In Existing Wastewater Treatment Plants
INCOVER	01/06/2016	31/07/2019	€ 8.432.456,43	€ 7.209.032,01	Innovative Eco-Technologies For Resource Recovery From Wastewater
DEMOGRAVI3	01/01/2016	31/12/2019	€ 26.523.602,50	€ 19.037.465,51	Demonstration Of The Gravi3 Technology – Innovative Gravity Foundation For Offshore Wind
RAVE	01/06/2015	01/11/2017	€ 168.277,20	€ 168.277,20	Rotifers As Vehicles For Epibiotic Bacteria
NANOREMO- VAS	01/01/2015	31/12/2018	€ 688.500,00	€ 688.500,00	Advanced Multifunctional Nanostructured Materials Applied To Remove Arsenic In Argentinian Groundwater
C-LEAK	01/07/2016	30/06/2018	€ 183.454,80	€ 183.454,80	Rivers As Leak In The Terrestrial C Sink



3.1 H2020 funding programme

PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
CZ-SK SOUTH LIFE	01/09/2017	30/06/2024	€ 7.024.703,00	€ 5.085.000,00	Optimalization Of Natura 2000 Sites Management Delivery In The South Bohemia Region And The Territory Of South Slovakia
FRESHABIT	01/01/2016	30/09/2022	€ 24.431.249,00	€ 11.976.286,00	Towards Integrated Management Of Freshwater Nature 2000 Sites And Habitats
Green Foundry LIFE	01/07/2018	30/06/2021	€ 2.088.998,00	€ 1.216.781,00	Inorganic Binder System To Minimize Emissions, Improve Indoor Air Quality, Purify And Reuse Of Contaminated Foundry Sand
Hg-rid-LIFE	01/09/2016	31/08/2019	€ 1.701.112,00	€ 1.019.766,00	Mercury Decontamination Of Dental Care Facilities
Hydrology LIFE	01/08/2017	31/12/2023	€ 8.874.132,00	€ 5.324.481,00	Restoring The Hydrological Integrity Of Wetland Habitats In Finland
LIFE - MER- MAIDS	01/07/2014	31/12/2016	€ 1.287.123,00	€ 643.561,00	Mitigation Of Microplastics Impact Caused By Textile Washing Processes
LIFE ADAPT- 2CLIMA	01/10/2015	29/02/2020	€ 1.497.060,00	€ 898.236,00	Adaptation To Climate Change Impacts On The Mediterranean Islands' Agriculture
LIFE AGRICLOSE	02/07/2018	01/07/2022	€ 2.203.843,00	€ 1.315.021,00	Improvement And Disclosure Of Efficient Techniques For Manure Management Towards A Circular And Sustainable Agriculture.
LIFE ALGAECAN	02/10/2017	31/12/2020	€ 1.728.018,00	€ 1.033.569,00	Adding Sustainability To The Fruit And Vegetable Processing Industry Through Solar-Powered Algal Wastewater Treatment
LIFE APEX	01/09/2018	31/08/2022	€ 3.353.413,00	€ 2.012.047,00	Systematic Use Of Contaminant Data From Apex Predators And Their Prey In Chemicals Management
LIFE BELINI	01/10/2016	31/12/2026	€ 17.699.504,00	€ 9.752.311,00	Belgian Initiative For Making A Leap Forward Towards Good Status In The River Basin Of The Scheldt
LIFE BEWARE	03/09/2018	30/06/2022	€ 2.103.964,00	€ 1.188.160,00	Better Water-Management For Advancing Resilient-Communities In Europe
LIFE CELSIUS	01/10/2015	30/09/2018	€ 732.049,00	€ 436.377,00	Sustainable And Low Energy Wastewater Treatment For Warm Climates
LIFE CLEAN UP	01/10/2017	30/09/2020	€ 1.492.512,00	€ 895.506,00	Validation Of Adsorbent Materials And Advanced Oxidation Techniques To Remove Emerging Pollutants In Treated Wastewater
LIFE CO2FOR- MARE	01/06/2014	30/11/2017	€ 4.064.144,00	€ 1.953.422,00	Use Of Co2 As A Substitute Of Chlorine- Based Chemicals Used In O&M Industrial Processes For Macrofouling Remediation
LIFE DeNTreat	01/07/2017	30/06/2020	€ 1.391.893,00	€ 835.133,00	Decentralized Innovative Treatment Of Ammonium-Rich Urban Wastewater
LIFE DREAMER	01/09/2017	31/12/2020	€ 1.626.410,00	€ 975.845,00	Demonstration Of An Environmentally- Friendly Desalination System Concept: Transforming Seawater Into Valuable Resources
LIFE EBRO-AD- MICLIM	02/06/2014	01/06/2018	€ 2.260.960,00	€ 1.124.341,00	Adaptation And Mitigation Measures To Climate Change In The Ebro Delta



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
LIFE ECAP	07/09/2015	31/12/2019	€ 3.539.877,00	€ 2.123.926,00	European Sustainable Clothing Action Plan
LIFE ECORKWASTE	01/09/2015	31/12/2018	€ 1.903.898,00	€ 1.087.756,00	Integrated And Sustainable Management Of Cork Waste Generated In The Cork Industry.
LIFE EFFIDRAIN	01/10/2015	29/03/2019	€ 2.169.735,00	€ 1.286.691,00	Efficient Integrated Real-Time Control In Urban Drainage And Wastewater Treatment Plants For Environmental Protection
LIFE ELECTRO -SLUDGE	01/09/2015	31/12/2018	€ 1.475.110,00	€ 863.464,00	Innovative Electro Dewatering System For The Maximisation Of The Urban Sludge Dry Solid Content
LIFE ENRICH	01/09/2017	28/02/2021	€ 2.770.781,00	€ 1.662.467,00	Enhanced Nitrogen And Phosphorus Recovery From Wastewater And Integration In The Value Chain
LIFE FOODPRINT	01/09/2014	30/04/2018	€ 1.874.864,00	€ 891.182,00	Development Of An Integrated Strategy For Reducing The Carbon Footprint In The Food Industry Sector
LIFE for Acid Whey	03/07/2017	30/06/2021	€ 4.439.001,00	€ 2.622.435,00	Reuse Of Waste Acid Whey For Extraction Of High Added Value Bioactive Proteins
LIFE FRANCA	01/07/2016	31/12/2019	€ 1.058.242,00	€ 630.383,00	Flood Risk Anticipation And Communication In The Alps
LIFE iBATHWA- TER	01/09/2018	31/12/2021	€ 2.274.164,00	€ 1.364.497,00	Advanced Urban Water Management To Efficiently Ensure Bathing Water Quality
LIFE IP RICH WATERS	01/10/2016	31/03/2024	€ 30.030.380,00	€ 9.736.678,00	Integrated Approach To Mobilise Resources For Resilient Ecosystems And Rich Waters In The North Baltic Sea River Basin
LIFE LEACHLESS	01/10/2016	31/12/2019	€ 1.775.805,00	€ 1.041.237,00	Low Energy Treatment Technology For Leachate Valorisation
LIFE LESSWATT	01/10/2017	31/03/2021	€ 1.267.708,00	€ 760.624,00	Innovative Wireless Tool For Reducing Energy Consumption And Ghgs Emission Of Water Resource Recovery Facilities
LIFE Local Water Adapt	01/07/2018	31/12/2023	€ 5.741.574,00	€ 2.405.024,00	Life Local Water Adapt; Innovative Collective, Adaptive Water Management
LIFE MATHER	01/07/2017	31/12/2020	€ 1.580.774,00	€ 935.521,00	Life Mather - Full Material And Chemical Monitoring Data And Disclosure For The Protection Of The Human Health And Environment
LIFE MIGRATOEBRE	01/07/2014	30/06/2018	€ 1.568.574,00	€ 784.285,00	Life Migratoebre - Migratory Fish Recovery And Improved Management In The Final Stretch Of The Ebre River
LIFE PHOENIX	01/09/2017	31/03/2021	€ 2.176.493,00	€ 1.264.369,00	Perfluorinated Compounds Holistic Environmental Interinstitutional Experience
LIFE PRIMED	02/07/2018	30/06/2023	€ 2.136.775,00	€ 1.602.581,00	Restoration, Management And Valorisation Of Priority Habitats Of Mediterranean Coastal Areas
LIFE PRIMES	01/10/2015	31/12/2018	€ 2.366.767,00	€ 1.085.761,00	Preventing Flooding Risks By Making Resilient Communities



PROJECT	START	END	PROJECT	EC	PROJECT
ACRONYM	DATE	DATE	COST	CONTRIBUTION	TITLE
LIFE PureAgroH2O	02/07/2018	31/12/2021	€ 2.145.822,00	€ 1.279.435,00	Pollutant Photo-Nf Remediation Of Agro-Water
LIFE RAMSES	16/07/2015	15/07/2018	€ 1.158.391,00	€ 694.906,00	Enhanced Reclaimed Water Quality Through Mainstream Anaerobic Treatment Using Supported Biomass Growth.
LIFE REMoPaF	07/07/2016	30/06/2021	€ 1.810.566,00	€ 965.391,00	Recovery Of Endangered Mollusc Patella Ferruginea Population By Artificial Inert Mobile Substrates In Mediterranean Sea
Life RESAFE	01/01/2014	31/12/2015	€ 1.354.887,00	€ 672.023,00	Innovative Fertilizer From Urban Waste, Bio- Char And Farm Residues As Substitute Of Chemicals Fertilizers
LIFE REWATCH	01/09/2016	31/12/2019	€ 2.645.765,00	€ 1.586.556,00	Demonstration Of An Innovative Recycling Scheme To Increase The Water Efficiency In The Petrochemical Industry
LIFE SUSTAIN- HUTS	01/07/2016	30/06/2020	€ 1.976.885,00	€ 1.116.543,00	Sustainable Mountain Huts In Europe
LIFE TRANSFO- MEM	01/06/2014	30/06/2018	€ 956.077,00	€ 477.488,00	Transformation Of Disposed Reverse Osmosis Membranes Into Recycled Ultra- And Nanofiltration Membranes
LIFETTGG	03/07/2017	30/06/2021	€ 2.148.987,00	€ 1.270.869,00	The Tough Get Going
LIFE UR- BAN-ADAPT	16/07/2015	31/12/2021	€ 10.362.411,00	€ 2.767.982,00	Demonstrating Urban Climate Adaptation And Resilience In Inner City Rotterdam
LIFE UrbanProof	01/10/2016	31/05/2020	€ 1.854.000,00	€ 1.104.599,00	Climate Proofing Urban Municipalities
LIFE ViVaCCA- dapt	01/07/2016	30/06/2021	€ 869.028,00	€ 520.516,00	Adapting To The Impacts Of Climate Change In The Vipava Valley
LIFE+ SOIL4WI- NE	01/01/2017	31/12/2019	€ 1.613.328,00	€ 914.999,00	Innovative Approach To Soil Management In Viticultural Landscapes
Life4MarPiccolo	01/01/2016	30/09/2020	€ 2.512.171,00	€ 1.325.473,00	A New Life For Mar Piccolo
LIFE-AGESCIC	01/09/2018	30/09/2021	€ 3.737.597,00	€ 2,227.556,00	Life-Agescic - Achieve Good Environmental Status For Coastal Infrastructures Construction
LIFE-BRAINY- MEM	01/07/2014	30/06/2017	€ 506.367,00	€ 253.183,00	Advanced-Control Mbr For Wastewater Reclamation
LIFE-EMPORE	01/09/2016	31/12/2019	€ 1.783.824,00	€ 1.030.407,00	Development Of An Efficient And Sustainable Methodology For Emerging Pollutants Removal In WWTPs(Empore)
LIFE-IP RBMP- NWRBD UK	01/01/2015	31/12/2019	€ 20.031.040,00	€ 11.988.811,00	Integrated Water Management Approach To Delivery Of The North West England River Basin Management Plan
LIFE-IREPRO	01/07/2017	28/02/2020	€ 2.930.153,00	€ 1.692.729,00	A Innovative Industrial Process For Production Of Low-Gwp Refrigerants For Industrial Refrigeration And Air Conditioning
LIFE-NEWBIES	01/07/2018	30/06/2021	€ 1.249.375,00	€ 747.602,00	Nitrogen Extraction From Water By An Innovative Electrochemical System
LIFE-RENEWAT	01/07/2014	30/06/2017	€ 1.366.044,00	€ 621.362,00	Optimised Renewable Mix For Energy Saving In Waste Water Treatment Plants
LIWE LIFE	01/07/2018	30/06/2023	€ 7.581.807,00	€ 2.991.076,00	Lidköping Innovation Wastewater Eco-Hub



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
MIDWOR-LIFE	01/09/2015	31/08/2018	€ 931.850,00	€ 554.608,00	Mitigation Of Environmental Impact Caused By Dwor Textile Finishing Chemicals Stud- ying Their Non-Toxic Alternatives
Soil4Life	01/10/2018	31/03/2022	€ 2.919.769,00	€ 1.751.861,00	Soil4life
SU-EATABLE LIFE	01/09/2018	31/08/2021	€ 1.672.056,00	€ 1.003.232,00	Reducing Carbon Emissions In The Eu Through Sustainable Diets
CIRCWASTE	01/10/2016	31/12/2023	€ 18.521.507,00	€ 11.112.904,00	CIRCWASTE - LIFE IP on waste - towards circular economy in Finland
Wetlands International - Wetlands International	01/01/2018	31/12/2019	€ 1.437.888,00	€ 853.468,00	Wetlands International - Wetlands International - European Association

3.3 INTERREG funding programme

PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT ON TITLE
@BluePortS	01/09/2017	29/04/2020	€ 2.959.900,00	€ 2.219.925	Atlantic Blue Port Services - Discharge polluted water in port, not at sea
AFLOWT	25/10/2018	24/12/2022	€ 31.173.591,08	€ 14.119.567	7,14 Accelerating market uptake of FLoating Offshore Wind Technology
APP4SEA	01/05/2017	30/04/2020	€ 1.414.143,47	€ 868.922	Arctic Preparedness Platform for oil Spill and other Environmental Accidents
AQUA-VLAN 2	01/10/2016	30/09/2019	€ 3.499.537,95	€ 1.749.768	3,98 AQUA-VLAN 2
ARCWIND	01/11/2017	31/10/2020	€ 3.920.146,54	€ 2.940.109	Adaptation and implementation of floating wind energy conversion technology for the Atlantic region
AT-VIRTUAL	01/01/2019	31/12/2021	€ 1.888.308,72	€ 1.416.231	Open innovation to improve response in maritime security and safety in the Atlantic Area
BaltGas (seed)	01/09/2016	31/12/2016	€ 40.000,00	€ 32.400,	,00 Regional Sustainable Biogas Solutions
BEGIN	01/09/2016	31/07/2020	€ 7.525.000,00	€ 3.462.500	0,00 Blue Green Infrastructure through Social Innovation
BE-GOOD	25/02/2016	31/05/2020	€ 6.450.167,47	€ 3.870.100	D,48 Building an Ecosystem to Generate Opportunities in Open Data
BIGDATA 4RIVERS	01/08/2019	31/07/2023	€ 1.320.345,00	€ 1.106.506	Improving the European Rivers Water Quality through Smart Water Management Policies
BIOVAC	01/10/2018	30/11/2018	€ 43.775,98	€ 28.454	,39 Bioprocess value chain
BLUEISLANDS	01/11/2016	31/10/2019	€ 2.755.320,41	€ 2.342.022	2,35 Seasonal variation of waste as effect of tourism
boDEREC-CE	01/04/2019	31/03/2022	€ 2.328.140,81	€ 1.938.208	Board for Detection and Assessment of Pharmaceutical Drug Residues in Drinking Water - Capacity Building for Water Management in CE



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIB		PROJECT TITLE
BWN	01/12/2015	01/07/2020	€ 6.840.000,00	€ 3.400	0.000,00	Building with Nature
C5A	01/01/2019	31/12/2021	€ 1.925.150,00	€ 962	2.575,00	Cluster for Cloud to Coast Climate Change Adaptation
ČIGRA	01/09/2017	29/02/2020	€ 579.177,41	€ 478	3.982,00	Preserving the population of terns in Sava and Drava basin
Circulair onder- houd	01/04/2019	31/03/2022	€ 1.464.543,46	€ 710	0.000,00	Circulair onderhoud
COCOON	01/01/2017	31/12/2021	€ 1.268.505,00	€ 1.060).328,25	Consortium for a Coherent European Landfill Management Strategy
Concert-Eaux	25/04/2017	24/04/2020	€ 1.998.634,00	€ 1.698	3.838,90	Cross-Border Consultation of the Roya Valley to strategies of adapatation at climate changes
CrossRoads 2	01/03/2016	30/11/2020	€ 20.625.876,30	€ 8.699	9.628,27	CrossRoads 2
CWPharma	01/10/2017	30/09/2020	€ 3.724.448,36	€ 2.879	9.898,08	Clear Water from Pharmaceuticals
De blauwe keten	01/01/2016	31/12/2018	€ 2.748.751,73	€ 1.374	1.375,86	De blauwe keten
DIADeM	01/01/2017	31/12/2019	€ 2.326.040,88	€ 1.163	3.020,41	Development of an integrated approach for the diagnosis of the water quality of the River Meuse
DOC2C's	01/01/2016	31/12/2019	€ 4.189.804,05	€ 2.513	3.882,43	DOC2C's: Innovative technologies for DOC removal in drinking water treatment
DTP1-005-2.3 - DANUBEparks- CONNECTED	01/01/2017	30/06/2019	€ 3.085.412,49	€ 2.622	2.600,62	Bridging the Danube Protected Areas towards a Danube Habitat Corridor
DTP1-096-2.1 CAMARO-D	01/01/2017	30/06/2019	€ 2.588.138,36	€ 2.199	9.917,61	Cooperating towards Advanced Management Routines for land use impacts on the water regime in the Danube river basin
DTP2-064-2.1 - DAREFFORT	01/06/2018	31/05/2021	€ 1.351.898,63	€ 1.149	9.113,84	Danube River Basin Enhanced Flood Forecasting Cooperation
Eco-AlpsWater	17/04/2018	16/04/2021	€ 1.804.494,95	€ 1.447	7.666,58	Innovative Ecological Assessment and Water Management Strategy for the Protection of Ecosystem Services in Alpine Lakes and Rivers
EERES4WATER	01/01/2019	31/12/2021	€ 3.130.993,08	€ 2.348	3.244,81	Promoting energy-water nexus resource efficiency through renewable energy and energy efficiency
ELMAR (seed)	01/09/2016	31/12/2016	€ 40.000,00	€ 34	.000,00	Promoting the production and use of electric boats and ships in the South Baltic area
F2AGRI-effluent to agriculture	01/10/2016	30/09/2019	€ 6.350.772,61	€ 2.960).516,13	F2AGRI-effluent to agriculture
FAIR	01/12/2015	30/06/2020	€ 4.593.750,00	€ 2.276	5.875,00	Flood infrastructure Asset management and Investment in Renovation, adaptation and maintenance
FanpLESStic-sea	01/01/2019	30/06/2021	€ 2.968.068,80	€ 2.090).961,49	Initiatives to remove microplastics before they enter the sea
Food Pro.tec.ts	01/07/2016	30/06/2020	€ 9.984.334,89	€ 4.992	2.167,45	Food Pro.tec.ts
FRAMES	01/10/2016	31/01/2020	€ 6.924.911,00	€ 3.462	2.454,00	Flood Resilient Areas by Multi-layered Safety



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
FramWat	01/07/2017	30/06/2020	€ 1.611.621,80	€ 1.362.704,89	Framework for improving water balance and nutrient mitigation by applying small water retention measures
FRESH4Cs	15/02/2019	30/09/2022	€ 5.621.915,43	€ 2.958.041,07	Alternative FRESH water resources for saline Coastal Areas
From the Tatras to Tisza	01/09/2017	31/12/2018	€ 308.632,00	€ 262.337,20	From the Tatras to Tisza
GeoPLASMA-CE	01/07/2016	30/09/2019	€ 2.896.081,25	€ 2.388.495,26	Shallow Geothermal Energy Planning, Assessment and Mapping Strategies in Central Europe
Green WIN	31/05/2018	30/05/2021	€ 2.454.783,00	€ 1.472.869,80	Greener Waterway Infrastructure
H2SHIPS	11/01/2019	10/07/2022	€ 6.333.985,89	€ 3.466.501,76	System-Based Solutions for H2-Fuelled Water Transport in North-West Europe
HEAWATER	01/03/2018	28/02/2021	€ 1.898.348,65	€ 1.488.788,70	Achieving healthier water quality in urban small rivers of the Baltic Sea catchment by restoration of water bodies and preventing of nutrients and hazardous substances inflow from watersheds
HyTrEc2	02/10/2016	10/10/2021	€ 5.246.271,00	€ 2.197.940,00	Hydrogen Transport Economy in the North Sea Region2 (Call 2)
IDEA	20/09/2017	19/12/2020	€ 4.981.632,00	€ 2.988.979,20	Implementation and development of economic viable algae-based value chains in NWE
IMMERSE	01/10/2018	30/09/2021	€ 3.764.138,00	€ 1.882.069,00	Implementing Measures for Sustainable Estuaries
IMPAKT!	01/09/2016	31/08/2020	€ 5.924.350,77	€ 2.962.175,39	IMPAKT!
IMPROVED	01/01/2016	31/12/2019	€ 4.596.678,85	€ 2.298.339,42	IMPROVED
I-QUA	24/04/2017	23/04/2020	€ 1.796.694,44	€ 894.097,37	I-QUA
ISHY	01/02/2019	30/06/2022	€ 15.984.446,91	€ 9.206.068,30	Implementation of Ship Hybridisation
I-STORMS	01/01/2018	31/12/2019	€ 1.405.787,45	€ 1.194.919,33	Integrated Sea Storm Management Strategies
Jomopans	01/01/2018	31/12/2020	€ 3.475.357,00	€ 1.567.344,00	Joint Monitoring Programme for Ambient Noise North Sea
JONAS	01/01/2019	31/12/2021	€ 2.800.403,92	€ 2.100.302,94	Joint framework for Ocean noise in the Atlantic seas
LESS is MORE	01/01/2018	30/09/2020	€ 2.299.325,00	€ 1.752.399,75	Energy-efficient technologies for removal of pharmaceuticals and other contaminants of emerging concern
LIVES	01/08/2018	31/07/2021	€ 1.470.614,83	€ 735.307,42	Litter Free Rivers and Streams
LL4WIDE	07/03/2018	06/12/2021	€ 6.069.503,96	€ 3.641.702,38	Living Labs For Water Innovation Demonstration Exchange - A North West Europe collaboration to create a network of water and wastewater test and demonstration facilities for SMEs to develop new water related innovative technologies
MED Greenhouses	01/02/2018	31/07/2019	€ 1.171.400,00	€ 995.690,00	Green Growth through the capitalization of innovative Greenhouses



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
MORPHEUS	01/01/2017	31/01/2017	€ 1.597.591,85	€ 1.310.706,12	Model Areas for Removal of Pharmaceutical Substances in the South Baltic
NANOCULTURE	01/01/2019	01/01/2022	€ 1.470.040,88	€ 1.102.530,66	Risk assessment and mitigation of the presence of engineered Nanomaterials in Atlantic aquaculture
NEREUS	01/10/2017	31/12/2020	€ 7.007.863,54	€ 3.394.737,38	New Energy and Resources from Urban Sanitation
NuReDrain	03/10/2016	29/09/2020	€ 2.674.405,00	€ 1.337.201,00	Nutrients Removal and Recovery from Drainage Water
PEFMED	01/11/2016	31/07/2019	€ 2.438.360,51	€ 2.072.606,43	Uptake of the Product Environmental Footprint across the MED agrofood regional productive systems to enhance innovation and market value
Phos4You	15/09/2016	14/09/2020	€ 11.019.067,69	€ 6.611.440,61	Phosphorus Recovery from Wastewater For Your Life
PROLINE-CE	01/07/2016	30/06/2019	€ 2.750.209,47	€ 2.267.296,09	Efficient Practices of Land Use Management Integrating Water Resources Protection and Non-structural Flood Mitigation Experiences
PROWATER	01/09/2018	31/08/2022	€ 5.526.623,70	€ 3.315.974,22	Protecting and restoring raw water sources through actions at the landscape scale
QUALIFY	14/08/2017	31/07/2020	€ 3.781.577,25	€ 2.268.946,35	Protecting and restoring raw water sources through actions at the landscape scale
RECENT	01/09/2015	31/08/2018	€ 1.730.066,82	€ 1.092.028,61	Renewable Community Empowerment in Northern Territories
REDAWN	01/09/2017	31/08/2020	€ 2.915.599,00	€ 2.186.699,25	Reducing energy dependency in Atlantic Area water networks
REEF 2W	01/06/2017	31/05/2020	€ 2.300.298,81	€ 1.878.304,71	Increased renewable energy and energy efficiency by integrating, combining and empowering urban wastewater and organic waste management systems
REFEC	01/12/2017	30/11/2020	€ 728.192,93	€ 569.664,43	Reinforcing Eastern Finland-Estonia Transport Corridor
RESANAT	01/05/2019	30/04/2022	€ 2.240.278,14	€ 1.092.129,46	RESANAT
REVALPET	01/10/2016	30/09/2019	€ 1.258.999,06	€ 818.349,39	Recycling and regeneration of bottles of milk in innovative materials
RockTheAlps	01/11/2016	31/12/2019	€ 2.246.416,50	€ 1.856.844,42	Harmonized Rockfall natural risk and protection forest mapping in the Alpine Space
SalFar	12/06/2017	30/06/2022	€ 6.147.375,00	€ 2.760.633,00	Saline Farming - Innovative agriculture to protect the environment and stimulate economic growth
SAMARCH	01/04/2017	31/07/2022	€ 7.790.262,40	€ 5.375.281,06	Salmonid Management Round the Channel
SaveSafeWater	02/04/2018	31/03/2020	€ 901.583,26	€ 766.345,77	Networking for Reciprocal Safe Cross Border Water Supply towards a Worth Living Environment
SCALE-UP	01/12/2015	31/12/2019	€ 5.007.076,00	€ 2.503.535,00	Supporting Clean-tech innovators in Accessing Large Enterprises through Unlocking Procurement



PROJECT ACRONYM	START DATE	END DATE	PROJECT COST	EC CONTRIBUTION	PROJECT TITLE
Smart tooling process industry	01/09/2016	31/05/2020	€ 3.488.275,83	€ 1.719.634,78	Smart tooling process industry
Smart sediment	01/09/2016	30/11/2020	€ 7.582.687,68	€ 3.791.343,84	Smart sediment
SOILCOM	01/02/2019	31/01/2023	€ 3.406.136,00	€ 1.703.068,00	Sustainable soils by quality compost with defined properties
SPECTORS	01/09/2016	31/08/2020	€ 9.884.989,00	€ 4.942.494,00	SPECTORS
Sullied Sediments	03/10/2016	27/03/2020	€ 4.086.826,00	€ 2.043.412,00	Sullied Sediments - Sediment Assessment and Clean Up Pilots in Inland Waterways in the North Sea Region
SUMANU	01/10/2018	31/03/2021	€ 997.958,45	€ 768.110,02	Sustainable manure and nutrient management for reduction of nutrient loss in the Baltic Sea Region
SURICATES	20/09/2017	19/03/2021	€ 5.718.690,68	€ 3.431.214,41	Sediment Uses as Resources In Circular And Territorial Economies
Sustainable Gateways	01/02/2018	30/04/2020	€ 1.730.630,66	€ 1.297.973,00	Small ports - sustainable gateways to coastal national parks
T.R.I.G - Eau	01/01/2017	01/01/2020	€ 2.091.370,21	€ 1.777.664,68	Cross-border cooperation, Resilience, Innovation & Governance for the prevention of Hydrogeological Risk
The Green & Blue Rhine Alliance	01/05/2017	30/04/2020	€ 3.545.380,81	€ 1.772.690,40	The Green & Blue Rhine Alliance
VALSE	01/10/2016	31/12/2019	€ 4.157.724,61	€ 2.078.862,28	New cross-border resources: towards validation of recovery scenarios for sediments and other materials
VillageWaters	01/03/2016	28/02/2019	€ 3.007.536,10	€ 2.424.615,36	Water emissions and their reduction in village communities – villages in Baltic Sea Region as pilots
WATenERgy CYCLE	01/09/2017	30/08/2019	€ 1.346.400,00	€ 1.144.440,00	Urban water full cycle: from its source to its end-users and back to the environment
WATER RESCUE	10/11/2017	09/11/2019	€ 789.574,56	€ 671.138,38	Water resources efficiency and conservative use in drinking water supply systems
Water Test Network	07/03/2018	06/12/2021	€ 6.069.503,96	€ 3.641.702,38	A North West Europe collaboration to create a network of water and wastewater test and demonstration facilities for SMEs to develop new water related innovative technologies
WATERCHAIN	01/10/2015	30/09/2018	€ 2.574.249,86	€ 2.029.057,39	Pilot watersheds as a practical tool to reduce the harmful inflows into the Baltic Sea
WaVE	01/08/2019	31/07/2022	€ 1.521.007,00	€ 1.277.785,25	Water-linked heritage Valorisation by developing an Ecosystemic approach
WOW!	07/03/2018	06/09/2021	€ 6.479.130,76	€ 3.887.478,46	Wider business Opportunities for raw materials from Wastewater



Colophon

Original title: Analysis & overview of Water Europe members' European projects

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Disclaimer: For the present research analysis, the data were collected from a number of the EU projects databases and websites: European Commission's Community Research and Development Information Service (CORDIS), LIFE programme ec.europa.eu webpage, EASME LIFE datahub, https://wwww.keep.eu, and interregeurope.eu.

Given the different data reporting structures (e.g. data categories) observed in the projects datasets and data reporting/dissemination systems of the LIFE, H2020, and Interreg funding programmes, a number of dataset limitations were observed in some of the datasets used for the present research analysis.

With reference to the LIFE programme (approved) projects dataset, multilingual textual data (i.e. use of different languages in the self-reported organizational entity names of the projects participants) created limitations related to the cross-language alignment of different textual data. Furthermore, the lack of data categories in the current, downloadable and public LIFE (approved) projects dataset, such as the sectorial affiliation and the project participation role of the LIFE projects participants, limited the data analysis dimension and process of the LIFE projects.



ANALYSIS & OVERVIEW OF

WATER EUROPE
MEMBERS'
EUROPEAN PROJECTS