

LIFE Project Summaries

LIFE- URBANLAKE	LIFE12 ENV/AT/000128	Contact: Thomas Ofenböck
Project: Integrated Lake Management of the Urban Lake "Alte Donau"		
<p>About: The project is defining strategies to reduce the vulnerability of the "Alte Donau" from effects of climate change e.g. increase of water temperature and effects from other anthropogenic pressures. The currently good environmental status and bathing water quality have to be secured. The strategies are part of the integrated lake management and the risk management system and comprise an innovative and up-to-date holistic view of the water resource, ecologic and socio-economic environment.</p>		
Website: www.life-altedonau.wien.at		

Urban Oases - Keidas	LIFE 11 ENV/FI/ 0911	Contact: Outi Wahlroos
Project: Shaping a Sustainable Future through Environmentally Functional Landscape Features		
<p>About: The project will demonstrate:</p> <ul style="list-style-type: none"> • the need for managing urban landscapes in a sustainable and holistic manner. • the scale and specific quality impacts of urban run-off management on ecosystems and receiving waters (the Baltic Sea), also in comparison to agricultural run-off. • and quantify the value of environmentally functional landscape elements in providing environment beneficial ecosystem services: impacts on water quantity (flood control), water quality, greenhouse gas sink/source, and bio-diversity are monitored and demonstrated to demonstrate a holistic view of the urban green elements' design dependent environmental functions. • innovative storm water and snow management swale structures are piloted as structural and pervious waterways within densely built urban environments. • possibilities and challenges in the implementation of EU conventions and directives relating to water environment, ecosystem services, and bio-diversity issues in the urban environments at site, national, and EU levels. 		
Website: http://www.helsinki.fi/taajamakeitaat/		

FRESHABIT	LIFE 14 IP FI 023	Contact: Jari Ilmonen, Seppo Hellsten
Project: Freshabit LIFE IP		
<p>About: The project aims to improve the ecological status, management and sustainable use of freshwater Natura 2000 sites in Finland, by tackling the problems they face at catchment level. The project will develop and demonstrate, in eight regional Natura 2000 networks, new biodiversity and ecosystem service indicators, with a focus on reviving populations of the key indicator species freshwater pearl mussel (<i>Margaritifera margaritifera</i>), alongside modelling methodologies for assessing the status of freshwater habitats</p>		
Website:		

MAC EAU	LIFE11 ENV/FR/000745	Contact: Anne Claire Gonzalez, Marie Taledec
Project: Reduction of drinking water consumption: implementation and evaluation of integrated measures in Gironde		
<p>About: There are four project objectives:</p> <ol style="list-style-type: none"> 1. Preservation of ground-water resources by reducing the aquifers' exploitation (installation of 		

<p>water-saving equipment, awareness-raising campaigns, dissemination of good practices, consumption follow-up and impact monitoring). Expected savings of 1,9 Mm³/year.</p> <ol style="list-style-type: none"> 2. Development of the knowledge on consumption behaviours and ratios. 3. Improvement of the control over drinking water demand (upgrade of the distribution network to reduce leakage). 4. Improvement of the local water public governance.
<p>Website: http://www.jeconomiseleau.org/index.php/projet-mac</p>

Lippeaue	LIFE 08 NAT D 010	Contact: Mr.Schmidt-Formann
<p>Project: Optimizing the connection between river and wetlands in the Lippeaue conservation area between Hangfort and Hamm</p>		
<p>About: This project has successfully completed the actions to achieve the following objectives:</p> <ul style="list-style-type: none"> • Improvement of the connection between the flood plain and the river • Increasing the frequency of flooding • Adjusting the water balance to nature-orientated conditions • Development of natural habitat types in the in the flood plain and in the river • Changing to less intensive farming methods • Reduction of disturbing factors 		
<p>Website: www.life-lippeaue.de</p>		

MAGPlan	LIFE08/ENV/D/021	Contact: Herman Kirchholtes
<p>Project: Management plan to prevent threats from point sources on the good chemical status of groundwater in urban areas</p>		
<p>About: The overall goal of the project was to develop and implement an optimal strategy for integral ground water investigation and efficient remediation of the key inputs of pollution. This was laid down as an exemplary municipal ground water management plan. Important elements of such management plans were to achieve a quantitative overview of contaminant mass flow rates for the whole area under consideration; to localise hot spots in a second step and then subsequently identify the main sources of pollution and related liable causes. Finally risk management strategies and remedial action plans should be defined.</p>		
<p>Website: www.magplan-life.eu/</p>		

INADAR	LIFE 14 ENV/DE/000851	Contact: Sebastian Blass
<p>Project: Innovative and ecological approach for dam restoration</p>		
<p>About: The INADAR project will demonstrate a new approach for dam restoration by implementing 'eco-berms' – a sediment and erosion control measure - in two locations in Germany: Offingen and Oberelchingen. Eco-berms make it possible to carry out restoration while</p> <ul style="list-style-type: none"> • elevating the dam in line with the Floods Directive, • and the improvement of the ecological potential as demanded by the Water Framework Directive (WFD). <p>This increases the efficiency and cost effectiveness of the measures.</p>		
<p>Website: not available as of 12.02.2016</p>		

My Favourite River	LIFE09/ENV/D/011	Contact: Barbara Grueter
<p>Project: Sustainable use of, and identification with, the River Neckar in comparative governance (national, municipal and regional level)</p>		
<p>About: The project's successfully proved in practice that "multilevel governance" can have great advantages. The project established cooperation routines between national and municipal levels,</p>		

focusing on environmentally significant dimensions, including river restoration, city planning and local recreation. It successfully proved that if concurrent investment plans at such different levels are jointly coordinated and implemented, a unified and environmentally sustainable river management can be realised. The river bank, broken up in a controlled way, resisted a severe flood (fifty-annual event). 30-40% of the planning and construction time and some 25% of the costs could be saved compared to a conventional project execution.

Website: www.my-favourite-river.de/

HWC	LIFE10 ENV/DE/000158	Contact: Kim Augustin
Project: Hamburg Water Cycle - Jenfelder Au		
<p>About: The project's overall objective is to demonstrate the technical, environmental and economic feasibility of an integrated and decentralised wastewater disposal and energy generation system for an urban housing district in Hamburg, Germany. The concept will bring together well-known technologies, as well as new and innovative prototypes – to be demonstrated for the first time on a large-scale. The system will be developed in different phases, in accordance with the different phases of construction. Specific objectives are to:</p> <ul style="list-style-type: none"> • Demonstrate an integrated wastewater disposal and energy generation system; • Minimise the dilution of sewage with drinking water (flush) by the use of vacuum toilets within an urban district; • Improve water quality, i.e. preventing rain and grey water from being polluted with black water; • Save energy by systematically treating and utilising separated wastewater streams. This will be done by preventing energy consuming wastewater processing; • Demonstrate an innovative decentralised energy generation concept based on a biogas plant. The concept will demonstrate the potential to minimise the use of non-renewable energy sources and the potential for energy generation based on separation of black water; • Prepare for future phosphorus and nitrogen recovery and effective elimination of micro pollutants such as pharmaceuticals. 		
Website: www.hamburgwatercycle.de		

LiLa	LIFE 14 IP/DE/022	Contact: Manuele Osterthun
Project: Living Lahn River – one river, many interests		
<p>About: The project aims to contribute to the implementation of the Water Framework Directive in order to achieve a “good” ecological status for surface waters in the catchment area of the Lahn River, an eastern tributary of the Rhine. LiLa will serve as a pilot for the recategorisation of inland waterways that previously gave priority to waterborne transport. It will demonstrate an integrated multi-stakeholder approach to managing the Lahn catchment, which crosses several administrative boundaries, improving the ecosystem services it provides. Restoration of near-natural conditions will improve the Lahn's ecological status and biodiversity. The project will also create water retention areas and identify pollution sources to improve water quality.</p>		
Website:		

CHARM	LIFE10 ENV GR 000601	Contact: Simos Malamis
Project: Chromium in Asopos groundwater system: remediation technologies and measures		
<p>About: The aim of the project is to establish TVs for chromium in the Asopos river basin and to address delays in the implementation of the Groundwater Directive (GWD). Innovative technologies and methods will be applied to estimate the natural background levels of chromium in the Asopos river basin and appropriate remediation technologies will be then tested and</p>		

evaluated.

Specific objectives of the project are to:

Evaluate the properties of the soil and the groundwater and assess their contribution to the potentially high natural background levels (NBL) of Cr(VI); Evaluate the effect of high NBL of Cr(III) and Cr(VI) on the determination of appropriate TVs; Develop a widely applicable (in other parts of Greece and the EU) rational methodology for the determination of TVs, in accordance with the guidelines of Annex II of the GWD; Identify relevant polluting activities in the area and estimate the generated loads and their effective transport until they enter the aquatic environment; Demonstrate different technologies for the remediation of groundwater bodies with high concentrations of Cr(III) and Cr(VI); Establish a programme of measures (PoM) for the Asopos river basin, which will include the implementation of the most efficient chromium removal technologies as well as supplementary administrative and legal instruments, with the active participation of interested stakeholders.

Website: www.charm-life.gr

RII - LIFE	LIFE11 ENV/IT/000243	Contact: Alfredo Caggianelli
Project: Integrated redevelopment of the hydraulic and environmental status of the rivers belonging to the foothills of Emilia Romagna		
<p>About: The general aim of the RII project is to demonstrate that Directives 2000/60/EC and 2007/60/EC can also be applied to:</p> <ul style="list-style-type: none"> • Networks of drainage basins and watersheds, not directly addressed by the two directives; and • Heavily urbanised areas along the borders between hilly mountainous territories and the plain, where the minor drainage network is typically modified. <p>The project's specific goals are:</p> <ul style="list-style-type: none"> • To introduce, test and demonstrate the usefulness of (a) innovative territory management strategies and water course intervention techniques, based on WFD and Floods Directive key concepts, in order to manage hydraulic critical points and the ecological quality of the networks of drainage basins and watersheds; (b) innovative economic-legal management tools to support flood risk management and territory ecological restoration; • To demonstrate restoration works in selected creeks; the restoration work will show that flood risk can be dealt with through ecological quality improvement techniques, despite limitations caused by the location of built-up areas along creeks; • To contribute to an improvement in the ecological quality of the minor drainage network located in a heavily urbanised strip close to the hillside, thus reducing local and downriver flood risk; • To increase the awareness of citizens and of Italian and European authorities involved in river management about the positive impacts these techniques can have for environmental protection flood risk management. 		
Website: http://ambiente.regione.emilia-romagna.it/life-rii		

LIFE BIOCLOC	LIFE12 ENV/IT/000120	Contact: Cecilia Caretti
Project: BIOprocess Control through Online titrimetry to reduce Carbon footprint in wastewater treatment		
<p>About:</p> <ul style="list-style-type: none"> - Demonstration of the suitability of a new technology for nitrification rate measurement and the applicability and the efficiency of an innovative control strategy for activated sludge system; - Installation of a prototype of an instrument based on the differential measurement of alkalinity and oxygen consumption at the end user's site, thereby allowing continuous measurement of the 		

nitrification rate in the aerobic basin of the WWTP;
 - Implementation of an innovative process control strategy in one of the treatment plant's two activated sludge treatment trains, leading to better oxygen transfer efficiency (by 10-25%), effluent quality and sludge quality;
 - Improved oxygen transfer efficiency will also lead to a reduction in electricity consumption and CO₂ emissions. The occurrence of nitrification inhibition phenomena will be identified immediately and their impact on the effluent in terms of nitrogen concentration will be minimised. The ratio between organic and total suspended solids in the excess sludge will be maximised by reducing solids retention time and the potential biogas production of the sludge will be improved. The project will assess the environmental and economic suitability of the system and its transferability to other WWTPs.

Website: www.bioclocproject.eu

LIFE RINASCE	LIFE13 ENV/IT/000169	Contact: Aronne Ruffini, Marco Monaci
Project: Naturalistic Restoration for the integrated hydraulic-environmental Sustainability of the Emilian Canals		
<p>About: The LIFE RINASCE project aims to reduce the risk of flooding and achieve good ecological status of the waters in the Po floodplain through ecological restoration of the channel network and vegetation management. It hopes to demonstrate the feasibility and environmental and socio-economic benefits of such measures on a large floodplain area. The project plans to develop an integrated restoration programme for floodplain channels using river restoration methods and protocols for sustainable management of aquatic and riparian vegetation. Planned interventions will aim to restore hydraulic functions of the floodplain, reduce the risk of flooding and improve the ecology. Interventions will include:</p> <ul style="list-style-type: none"> - The natural enlargement of a section of channel through excavation of a bank between two channels which run side-by-side – to improve drainage; - Enlargement of the natural channel for plumbing and water treatment plants – to improve drainage; - Lowering the floodplain and creating an arboreal strip of plants and shrubs – to improve the ecological value in compatibility with hydraulic functions; and - Creating a wetland – to mitigate flood risks through water retention and to purify the water retained. 		
Website: https://ambiente.regione.emilia-romagna.it/life-ri		

LIFE+ DIGITALIFE	LIFE13 ENV/IT/000140	Contact: Claudia Bianchi, Valentino Capucci
Project: A novel manufacturing process for photocatalytically activate ceramic tiles by digital printing		
<p>About: The objective of the LIFE DIGITALIFE project is to demonstrate an innovative approach to the production of photocatalytic surfaces, by using digital printing technology. This represents an important paradigm shift for state-of-the-art TiO₂ coating processes. The technology will be based on suitably designed print heads, using an ink based on solvents, TiO₂, and additives, able to coat a wide range of tile surfaces. The TiO₂-based ink will be directly and homogeneously deposited on the tile surface, greatly reducing the quantities of TiO₂ used and disposed of as waste, while also drastically reducing energy and water usage. Moreover, the use of an innovative water-based ink instead of a solvent-based ink will further reduce the process' environmental impact. Finally, the solution will be validated and the project results widely disseminated in order to raise awareness of sustainable manufacturing, and of the positive environmental impact of eco-active tiles.</p>		
Website: http://digitalife.active-ceramic.com/		

REWAT	LIFE 14 ENV/IT/001290	Contact: Chiara Machchina
Project: Sustainable WATER management in the lower Cornia valley through demand REDuction, aquifer REcharge and river REstoration		
<p>About: The principle objective of the LIFE REWAT project is to put in place, following a participatory approach, a strategy for integrated water resources management at sub-catchment level, proposing a governance model for sustainable development of the lower Val di Cornia. The specific objectives of the project are to:</p> <ul style="list-style-type: none"> • Create an integrated and structured knowledge base on the hydrological system of the Val di Cornia; • Raise water users' awareness of the importance of water saving and groundwater banking and actively involving them in the project; • Demonstrate the technical feasibility, the economic viability and the environmental sustainability of five solutions for the management of natural and managed aquifer recharge and for general water saving in civil water supply and in agriculture; • Develop an integrated governance model for the management of surface and groundwater at sub-catchment scale, based on a participatory process; and • Sign a river basin contract, involving all stakeholders of the sub-catchment 		
Website: www.liferewat.eu		

Investing in water	LIFE 10 INF MT 91	Contact: Geoffrey Saliba
Project: Achieving Reduction in Water Consumption by Business in Malta		
<p>About: The main objective of the 'Investing in Water' project is to achieve behavioural changes that will lead to increased adoption of best practices for water conservation during the project lifetime among the target economic sectors. The project aims to raise awareness on issues related to the water scarcity problem in Malta, and of the importance of water conservation among the target economic sectors. These will also serve as an example to other sectors to adopt similar measures thereby helping reduce pressure on ground-water resources and contributing towards Malta's EU obligation to achieve good status under the Water Framework Directive (WFD).</p>		
Website: www.investinginwater.org		

RadomKlima-PL	LIFE14 CCP/PL/101	Contact: Jerzy Zawodnik, Stefan Oblakowski, Tomasz Jurczak
Project: Adaptation to climate change through sustainable management of water of the urban area in Radom City		
<p>About: LIFERADOKLIMA PL's overall objective is to make the city of Radom more resilient to climate change by building demonstration 'green/blue infrastructure' for managing extreme storm water flows and controlling local flood risks. The aim is to mitigate extreme flows of water coming from outside the city and increase storm water retention by restoring and creating multi-use retention areas (while creating habitats for biodiversity), and by re-naturalising the river to restore its natural retention capacity.</p>		
Website:		

LIFE HyMemb	LIFE12 ENV/PT/001154	Contact: João Rosa
Project: Tailoring hybrid membrane processes for sustainable drinking water production		
<p>About: The HyMemb project's general objective is to demonstrate the feasibility and sustainability of advanced membrane processes for the treatment of drinking water, in order to provide a safer, more resilient barrier against emerging contaminants, with lower environmental</p>		

impacts.

Website: www.life-hymemb.eu

SWSS	LIFE 14 ENV/PT 000508	Contact: Marco Estrela
Project: Smart Water Supply System		
<p>About: The LIFE SWSS project aims to demonstrate and disseminate an innovative platform (SWSS) for management and decision support for water supply systems (WSS). The SWSS platform will be composed by five modules: (1) Predictive, (2) Hydraulic simulation, (3) Assessment, (4) Leakage and (5) Optimisation, which together will support the water companies to improve energy efficiency and water efficiency in their systems. The SWSS modules are based on previous developments from consortium partners, which will be integrated in one single platform in this project. The project will be implemented on three demonstration water supply systems (AdA, AdC and AdO) under real working conditions. In these three WSS the objectives are to reduce the energy consumption, GHG emissions and water leakage by implementing the SWSS platform in the demonstration systems and the reverse-pump for energy recovery (renewable energy) in gravity systems.</p>		
Website:		

IMPETUS	LIFE 14 ENV/PT/000739	Contact: Rui Viegas
Project: Improving current barriers for controlling pharmaceutical compounds in urban wastewater treatment plants		
<p>About: LIFE Impetus aims at demonstrating feasible improvement measures to enhance PhC removal in urban WWTPs with conventional activated sludge (CAS) treatment. As CAS is the most common biological process in urban WWTPs, the solutions may be easily transferred to wastewater treatment Europe-wide. A complementary objective is to produce valuable knowledge for water resources protection from PhCs and associated environmental policy, contributing to its update or development. This includes PhC occurrence and concentration, control in WWTPs, bacterial antibiotic resistance and bioaccumulation in clams, a key product in many local economies in Algarve as well as in Europe. The project will be demonstrated at pilot scale using 3 prototypes and at full-scale in two Portuguese CAS-WWTPs in water stressed regions (Lisbon and Algarve), focusing on performance assessment, using benchmarking tools, and chemical enhancement measures easily implementable in the current treatment lines.</p>		
Website:		

LIFE Stop CyanoBloom	LIFE12 ENV/SI/000783	Contact: Jurij Trontelj
Project: Innovative technology for cyanobacterial bloom control		
<p>About: The objective of this project is to demonstrate a new system for triggering lysis (break down) of cyanobacteria, decreasing its concentration and preventing mass blooming. This new technology, which will be implemented through a pilot device on two selected water bodies, will not destroy the entire population of the bacteria. It will simply prevent its mass occurrence. The project will also test new online sensors that determine concentrations and detect certain physical and chemical parameters of cyanobacteria in water bodies. This system simultaneously transfers the measured data via a GSM network. Programmes for interpreting measured data will also be designed. Data will be available on the project website. The device will also collect and store samples for laboratory analysis. Using the new technology will improve the ecological status of the chosen water bodies.</p>		
Website: http://lifestopcyanobloom.arhel.si/		

LIFE RusaLCA	LIFE12 ENV/SI/000443	Contact: Primoz Oprckal
Project: Nanoremediation of water from small waste water treatment plants and reuse of water and solid remains for local needs		
<p>About: The project will test an innovative nanoremediation process (use of nanoparticles of zerovalent iron) to treat urban wastewater and to recycle sludge as different types of composites. This new zero solid waste process will target household waste water that is too polluted to be released into surface waters. The treated water will be used for secondary purposes in households and for common public needs.</p>		
Website: www.rusalca.si		

LIFE PharmDegrade	LIFE 13 ENV/SI/000466	Contact: Zupančič Justin, Jurij Trontelj
Project: Degradation of pharmaceuticals in wastewaters from nursing homes and hospitals		
<p>About: The project's general objective is to introduce an efficient and financially viable technology for the removal of pharmaceuticals (PH) from the effluent of wastewater treatment plants. The technology is based on the advanced oxidation processes (AOP) associated with electrochemical degradation of PH, using different electrodes (graphite electrodes, mixed metal oxide electrodes and boron-doped diamond electrodes). The project will demonstrate technology on a sufficiently large scale to fully evaluate its effectiveness and economic viability. The aim is to demonstrate a solution that it is applicable to all wastewater containing PH and other persistent substances, which also include wastewater from old people's homes and hospitals in the EU. At the same time it is a flexible technology, suitable for different applications, with low maintenance costs and high efficiency.</p>		
Website: http://lifepharmdegrade.arhel.si/		

MINAQUA	LIFE11 ENV/ES/000569	Contact: Montserrat Aulinas Masó
Project: Demonstration project for water saving in car wash premises using innovative detergents and soft treatment systems.		
<p>About:</p> <ul style="list-style-type: none"> • To demonstrate that soft treatments can treat wastewater from car wash services effectively. • To demonstrate that the use of innovative biodegradable: detergents may facilitate dirt elimination on vehicles; finishing products may help extend the useful life of a vehicle washing. Both effects aim at reducing the amount of water by washing. • To demonstrate that the use of such detergents and waxes help reducing the pollutant load in wastewater, improving the efficiency of the treatment system. • To check if the quality of the regenerated water is acceptable to be recycled in the system. • To publish technical studies and good practice guides to disseminate the project's results and experience to different stakeholders, and to promote these technologies to other sectors. • To promote the integrated management of water throughout political action at different levels 		
Website: www.minaqua.org		

aWARE	LIFE11 ENV/ES/000606	Contact: Elsa Mesquita
Project: Innovative hybrid MBR-(PAC-NF) systems to promote Water Reuse		
<p>About: The final objective of the aWARE project is to promote the use of reclaimed water within water management organisations, reducing the negative environmental impact related to natural water resources overexploitation. The main technological challenges related to water reuse can be summarised as reliability, removal of recalcitrant compounds and environmental impact</p>		

(decrease of energy consumption, low reagents costs, etc.). To this end, the aWARE project aims at demonstrating the technical feasibility and assessing the economic and environmental viability of two different Membrane bioreactors-Powdered activated carbon-Nanofiltration (MBR-PAC-NF) configurations, as advanced treatments for wastewater and reclamation facilities

Website: www.life-aware.eu

LIFE WIRE	LIFE12 ENV/ES/000545	Contact: Ignacio Martin Garcia
Project: Water Cycle Efficiency Improvement by Boosting Industrial Water Reuse		
About: The overall objective of the project is to boost industrial water reuse by making available non-conventional water resources through the reuse of urban wastewater in industries. The project concretely aims at demonstrating the feasibility of one or more technological configurations based on the combination of leading-edge technologies to polish and reuse reclaimed municipal wastewater in the chemical, liquid waste disposal and electro-coating industries.		
Website: www.life-wire.eu		

LIFE+TL-BIOFER	LIFE13 ENV/ES/000800	Contact: José María Gómez Palacios
Project: Nutrients and regenerated water recycling in WWTPs through twin-layer microalgae culture for biofertilizers production		
About: The main project objective is to demonstrate the feasibility of an advanced nutrient removal technology by using microalgae immobilized culture in a Twin-Layer system, to address the environmental problem of point source pollution from small and medium size urban agglomerations. The project also aims to close the global biogeochemical cycle of nitrogen and phosphorus, deeply affected by anthropogenic activities, simultaneously addressing water pollution and mineral fertilizers substitution. Finally, the project aims to serve as a model for an extensive deployment on many other sites shifting the progress in the nutrient removal step on wastewater treatment in medium and small size populations and wastewater treatment plants, which is a big challenge along the next decades in the European Union		
Website: www.life-tlbiofer.eu		

LIFE TEXTILEATHER	LIFE13 ENV/ES/001138	Contact: Paqui Arán, Laura Santos
Project: Functional textiles and leathers by innovative MLSE process		
About: The TEXTILEATHER project will adapt and implement Multiple Laser Surface Enhancement (MLSE) technology for the treatment of textiles and leathers. This technology was originally developed for the metallurgic and electronic sectors. It consists of a dry, continuous process that can reduce significantly the environmental impact of textile and leather finishing operations, reducing greenhouse gas emissions and waste, the use of chemicals, water and energy. The project will demonstrate, on a semi-industrial scale, the technical, environmental and financial feasibility of the MSLE technology for the treatment of textiles and leather.		
Website: www.textileather.eu		

WATOP	LIFE11 ENV/ES/000503	Contact: Claudio Fernández Acevedo, Marta Mateo García de Galdiano
Project: New tertiary waste water treatment for organic micro-pollutants PPCPs (Pharmaceutical and Personal Care Products)		
About: The main goal of this project was to develop a demonstrative plant for PPCPs removal from wastewater, using a new technology based on nano-particles, in order to improve the quality		

of water and to get a good management of the water resources. This kind of technology is a new tertiary treatment highly efficient on PPCPs and other pollutants removal and is based on PAA/CD nano-resins. Scientific and technological objectives:

- Development of a technology to semi-industrial level for removal of PPCPs from wastewater.
- Demonstrate afterwards this technology viability in a wastewater treatment plant.
- Demonstration of a decrease in PPCPs concentration in water by applying this new tertiary treatment.
- Demonstration of good management of water resources.

Environmental objectives:

- Increase of water quality by decreasing some pollutants concentration.
- To improve environmental protection according to "Water European Directive"
- Reducing the carbon footprint of the human activity

Website: www.watop-life.eu

LIFE-REMPHOS	LIFE12 ENV/ES/000361	Contact: Claudio Fernández Acevedo, Marta Mateo García de Galdiano
Project: Implementation of a new phosphate removal tertiary in WWTP		
About: The technology proposed in this project will reduce phosphate concentration from wastewater decreasing phosphates in river. This proposal would be a solution for many WWTP, which need to improve phosphate removal from wastewater.		
<u>Scientific objectives:</u>		
<ul style="list-style-type: none"> • Development of a technology more efficient and economical to remove phosphates from wastewater • Demonstration of the viability of using this technology in a WWTP • Demonstration of phosphate removal efficiency in water using the treatment proposed • Valorisation of a by-product of MAGNA as a precipitant agent to remove phosphates from wastewater • Study of the best way to manage the precipitate formed in the reaction 		
<u>Environmental objectives:</u>		
<ul style="list-style-type: none"> • Increase of water quality decreasing pollutants concentration. • Improvement of environmental protection according to "Water European Directive". • Decrease of the eutrophication in river due to the decrease of phosphates concentration. • Reducing the carbon footprint of the human activity. 		
Website: www.remphos.es		

LIFE-PURIWAT	LIFE12 ENV/ES/000684	Contact: Claudio Fernández Acevedo, Marta Mateo García de Galdiano
Project: New demonstrative pilot plant for the purification waste water with oils, fats and hydrocarbons		
About:		
<ul style="list-style-type: none"> • Development of a pilot plant with a capacity of 5.000dm³/ hour to achieve, apart from separating those contaminants from water, their removal/ degradation through the specific microorganisms' action located in the filter. • Demonstrate that the technology to be used is optimal for wastewater of different sources and sectors. • Development of a filter which does not absorb water and, thus, be capable of separating the contaminants in an effective way and easy extraction of the contaminants in order to be re-used by using pressure. 		

- Increase the purification of wastewater in order to satisfy the defined requirements established in the European Directive 91/271/EC concerning the treatment of domestic wastewater.
- Contribute to the European Directive 2000/60/EC that established a framework for Community action in the field of water policy.
- Avoid the incineration of those contaminants, as it is currently carried out, by carrying out their degradation using the developed filter.
- Re-use of the purified water as high quality water in watering

Website: www.puriwat.es

SIAMEC	LIFE 14 ENV/ES/000849	Contact: Leticia Rodríguez Hernández
Project: Integrated anaerobic system for wastewater reclamation at ambient temperature in European climates		
About:		
1. To contribute to the palliation of water scarcity problems in highly stressed EU areas, by encouraging wastewater reclamation.		
2. To demonstrate the feasibility of anaerobic wastewater treatment, highly influenced by temperature, in two main European climates (Mediterranean and Atlantic) by means of the proposed integrated technology, leading to the significant benefits compared with conventional aerobic treatments-		
3. To demonstrate the feasibility, sustainability, robustness and versatility of this novel integrated technology for wastewater treatment and reclamation, from both economic and environmental points of view, assessing its suitability for WWTPs upgrading.		
4. To disseminate the project results and transfer the knowledge gained, to identify potential end users and water scarcity areas in EU in which wastewaters could be reclaimed for certain reuse applications, especially for agricultural (irrigation) purposes		
Website: www.life-siamec.eu		

EFFIDRAIN	LIFE14 ENV/ES/000860	Contact: Jordi Messeguer
Project: Efficient Integrated Real-time Control in Urban Drainage and Wastewater Treatment Plants for Environmental Protection		
About: The main goal of LIFE EFFIDRAIN project is to demonstrate an integrated real time control (RTC) strategy of urban drainage networks (UDN) and wastewater treatment plants (WWTP) to minimise the pollution of receiving waters, through the use of real-time quantity and quality data.		
Website:		

GOODSTREAM	LIFE 14 ENV/SE/000047	Contact: John Strand
Project: Good ecological status of an agricultural stream - introducing Integrated Buffer Zones in a holistic approach		
About: GOODSTREAM will demonstrate and document the transfer of a stream with major part of its catchment in arable land, to Good Ecological Status as defined by the European Water Framework Directive, and also leading to reduced floods in the urban areas in the lower catchment area according to the Flood Directive. Simultaneously biodiversity of the agricultural landscape will be increased by cost-efficient, innovative, technology-independent and site-specific measures (Habitat Directive). The project is holistic and will demonstrate new innovative tools which make the goals possible.		
Website: www.goodstream.se		

AFM	LIFE02 ENV/UK/146	Contact: Howard Dryden
Project: Development and applications of Advanced Filtration Media		
<p>About: The overall objectives of the project are:</p> <ul style="list-style-type: none"> • The mass production of a high value product from waste glass, to provide an improved filtration system for municipal drinking water supplies. • The protection of public health through improvement of drinking water quality. • A reduction in the environmental impact of waste water from industrial and sewerage water discharge. <p>Specific project objectives are:</p> <ul style="list-style-type: none"> • To confirm that the advanced filtration medium meets Drinking Water Inspectorate Standards. • To establish the first full scale processing facility for AFM. • To establish market acceptance of AFM. 		
Website: http://www.drydenaqua.com/afm/		

WaterLIFE	LIFE13 ENV/UK/000497	Contact: Rob Collins, Dominic Gogal
Project: Delivery of the Water Framework Directive through collaborative action between civil society and the private sector		
<p>About: The EU Water Framework Directive (WFD) introduced in 2000 imposes firm timetables for reversing the long-term decline in Europe's freshwater environment. Its headline objective is the achievement of Good Ecological Status (GES) in all European Water Bodies by 2015. Water LIFE aims to move surface water bodies within all demonstration catchments to GES faster than predicted by the 2009 River Basin Management Plans (RBMPs). The project is designed to support governments in the development of 2nd cycle RBMPs, demonstrating that there are civil society and private sector led mechanisms that can work if supported by an adequate policy framework.</p>		
Website: http://www.wwf.org.uk/what we do/rivers and lakes/		

LIFE Housing Landscapes	LIFE12 ENV/UK/001133	Contact: Hannah Kyrke Smith
Project: Climate-proofing Social Housing Landscapes		
<p>About: The project aims to develop climate change adaption solutions for existing social housing landscapes by demonstrating a holistic package of measures, based around the retrofitting of blue and green infrastructure, and increased local stakeholder engagement. Ultimately, it aims to demonstrate an integrated approach to addressing climate related and wider socio-economic challenges in vulnerable urban environments.</p>		
Website: http://www.london.groundwork.org.uk/what-we-do/major-initiatives/life-.aspx		

LIFE-IP RBMP-NWRBD UK	LIFE14 IPE UK 027	Contact: Ed Clegg, Claire Zaidi
Project: Integrated water management approach to delivery of the North West England River basin management plan		
<p>About: The overall strategy of this LIFE Integrated Project (IP) is for better implementation of plans under the Water Framework Directive (WFD) by working in a more integrated way with project beneficiaries and stakeholders to address the barriers, gaps and shortcomings preventing achievement of Good Ecological Status (GES). This will catalyse delivery of the IP outcomes that are to improve the trajectory towards GES, increase confidence of meeting targets, and reduce numbers of waterbodies where solutions are considered technically infeasible or proportionately costly.</p>		

REGENERA	ECO/11/304317	Contact: Daniele Ragazzon
Project:		
About: The project aims at mass-production and sell of a new high-performance filter media for the removal of arsenic from drinking water, with the ability to be regenerated.		
Website:		

ECOPHARMA	ECO/13/630255	Contact: Julio Llorca
Project:		
About: Development and demonstration of an innovative continuous sampler for organic chemical pollutants in the water		
Website:		