



# First Market Briefing

Applying European market leadership to river basin networks and spreading of innovation on water ICT models, tools and data.  
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## Project consortium



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## Coastal Lagoons in Europe: Integrated Water Resource Strategies

### LAGOONS Project

A published book which sets out the management challenges of lagoons and coastal zones, seen from the context of three perspectives: governance, environment and modelling. The book is based on the premise that successful management of coastal lagoons is dependent not only on scientific information but also on the governance systems in which this knowledge is used. It describes a unique approach to establishing good dialogue between all stakeholders (including the local population) and creating realistic and lasting strategic management.

The results and insights from the four case studies areas are readily transferrable to a wide range of coastal regions within Europe. The book is available in paper format from IWA publishing, or free online at [http://wio.iwaponline.com/content/ppiwawio/14/9781780406299\\_full.pdf](http://wio.iwaponline.com/content/ppiwawio/14/9781780406299_full.pdf).

**Stage of commercial development:**  
Commercially available

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## REFRAN - Processing Time Series of Meteorological Stations Data

### Joint Research Centre

REFRAN-CV software allows time series of data from ground meteorological stations (precipitation data) to be processed, in order to generate spatially-explicit products (return period maps) based on the L-moments statistics. This tool and the associated products at local and regional scale can be used in the development planning process and, concretely, to prepare investment in multi-purpose (irrigation, flood and drought prevention, environment protection) hydraulic infrastructure. The L-moments have the advantage of being less susceptible to the presence of outliers and performing better with smaller sample sizes. This is of particular interest for datasets in which the time series lengths are heterogeneous.

**Stage of commercial development:** Looking for first markets

**License/copyright:** Free and open source

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## WaterInnEU Market Briefing Autumn 2016

The newly launched [WaterInnEU Marketplace prototype](#) is a match making hub that has been established to accelerate the market translation of products and services of specific relevance to River Basin Management. The Marketplace directly supports innovations that have been previously funded by the EU, but have yet to achieve market adoption. Its role is to raise awareness amongst River Basin Managers and their supply chains regarding the availability of potentially relevant new products, and to facilitate introductions with their owners.

**We are pleased to introduce our first cohort below**, including a description of the main characteristics and the state of development of each one. WaterInnEU is also able to provide support to end users or third party intermediaries interested in embedding specific products within their existing RBM services.

If any of these products and/or associated services are of interest to you, please contact the named individual for further information. In the meantime we welcome your feedback on our Marketplace so that we can improve our future service to you.

## AquaSurvey

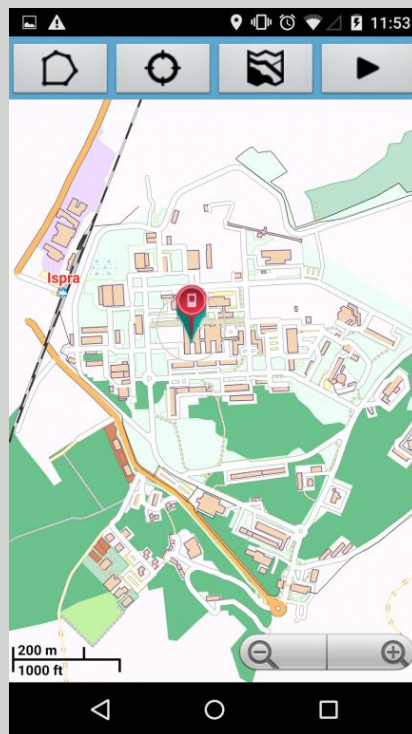
DG JRC - European Commission

AquaSurvey supports users through all the necessary steps to collect geographical data within the framework of a field survey campaign: from the design of the survey, through the concrete collection of data using mobile devices, to integration of the data in GIS or statistical software applications. The tool has been specifically customized for the water sector, and can be used with simple hand-held devices in rural areas, even where there is no internet connection (via offline options). The straightforward but effect workflow allows the survey to be conducted by non-experts, potentially enabling increased coverage with reduced costs.

**Stage of commercial development:** Beta version

**License/copyright:** Free and open source

Aquasurvey is free and open source. The beta design is currently being tested, with an improved prototype expected by the end of 2016. Anyone interested in trialling the product or for more information please see the complete [Product Specification Sheet](#) in our Market Place or contact WaterInnEU partner [andrea.leone@randbee.es](mailto:andrea.leone@randbee.es).



## A Guide for the Coastal Lagoon Manager

ARCH Project

A high level guide which provides an introduction to the importance of coastal zone management, and sets out a practical management process that helps to deal with the complexity associated with multiple uses of coastal areas. The process places particular emphasis on the importance of stakeholder participation and includes: describing the current state of the lagoon/estuary; conducting a series of participatory workshops to discuss present status and future vision; and developing a roadmap that determines how to reach the desired future.

The guide is particularly suitable for regions that have had little experience in stakeholder consultation and sustainable integrated resource management.

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## GUIDOS - GIS and Classification Tool

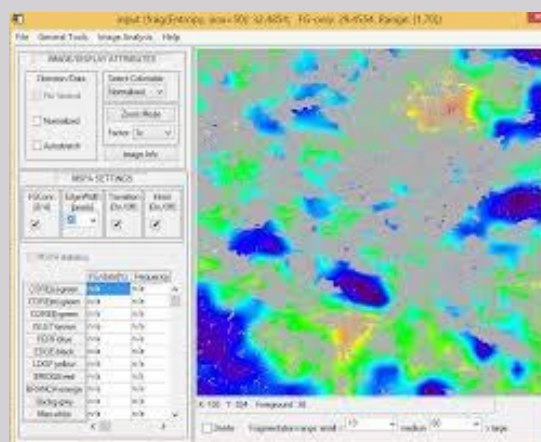
Joint Research Centre

The Guidos Toolbox (Graphical User Interface for the Description of image Objects and their Shapes) contains a wide variety of generic raster image processing routines, including related free software such as GDAL (to process geospatial data and to export them as raster image overlays in Google Earth), and FWTools (pre/post-process and visualize any raster or vector data). Additionally, it includes MSPA (Morphological Spatial Pattern Analysis), a customized sequence of mathematical morphological operators targeted at the description of the geometry and connectivity of the image components.

**Stage of commercial development:** Commercially available

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## ADESBA - Real Time Control (RTC)

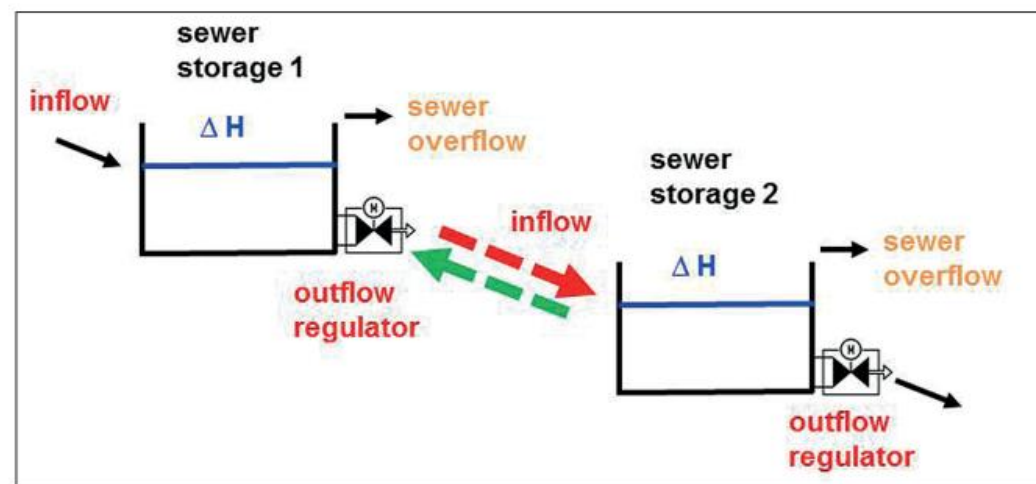
SEGNO Industrie Automation GmbH

ADESBA is an innovative fully automated real time control system which minimizes combined sewer overflow using accurate communication between single CSO facilities. If water levels rise in one storage facility a request can be sent for drainage into a neighbouring facility. The request is analysed and a signal of approval or denial is returned. This ensures effective use of the total existing storage capacity of the system and therefore facilitates a reduction in water pollution by decreasing the volume of overflow. The pre-configured control system represents a step forward in terms of practical and rapid implementation of sewer network control.

**Stage of commercial development:** Commercially available

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## ASR-Coastal (Aquifer Storage & Recovery in coastal, brackish-saline aquifers)

KWR Watercycle Research Institute

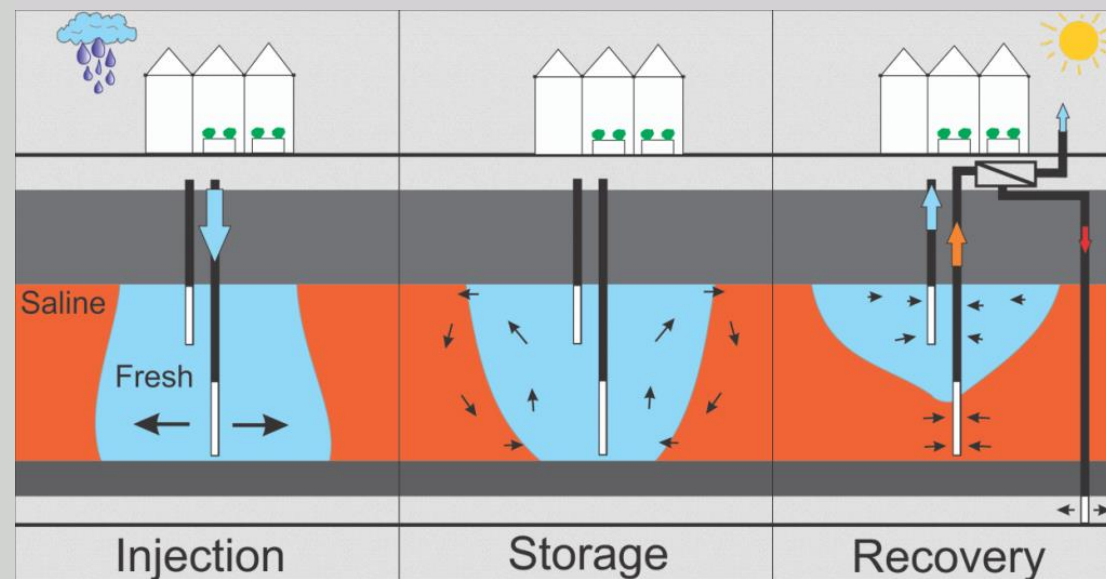
The Rainwater Filtration System, in combination with desalination, is an innovative ASR technology which helps safeguard a year round sustainable fresh water supply in coastal areas. ASR enables freshwater surpluses (rainwater, surface runoff etc) that arise during wet periods to be filtered and stored in underground wells, and pumped back to the surface during dry periods.

In coastal areas, use of brackish or saline wells leads to mixing of fresh and salty water. Combining the filtration system with a specialised RO desalination technology increases recovery of freshwater from 29% to 100% and also reduces the risk of salt water intrusion and subsidence.

**Stage of commercial development:** Commercially available

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## WEISS - Water Emission Inventory planning Support System

VITO - Flemish Institute for Technological Research

VMM - Flemish Environment Agency

WEISS software enables measurement and analysis of both point and diffuse emission sources and subsequent transportation of pollution to surface waters. There are three modules: the first deals with the spatial distribution of the emissions; the second represents all relevant transport routes, including direct discharges, the sewer system and runoff; and the third enables full analysis of the results, including user friendly visual outputs (maps and tables) for specific spatial entities at every node of the transport route. The software can also be used to store and compare results over many years, and to create and model scenarios as part of decision support exercises.

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