



ENORASIS

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NEWSLETTER 1

Jan2012-Jul2012

Welcome

With agriculture being the largest consumer of water globally, irrigation management constitutes without doubt a significant environmental challenge. From this point of view, **FP7-ENV ENORASIS** project aims to develop an irrigation management Decision Support System for farmers and water management organizations, based on advanced technologies, contributing to the adoption of more sustainable water management practices in agriculture.

The project is from January in place and we, the project team, are pleased to welcome you on the pages of our first newsletter. We hope you will enjoy reading this issue and look forward to receiving your comments and feedback.



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1. A few words about ENORASIS

The basic parameters and enabling technologies of the ENORASIS concept are:

- **Decision Support System** based on **GIS technologies**, acting as the main information backbone of the platform
- **Irrigation Management System**, performing the assessment of irrigation water needs and controlling irrigation management rules
- **Meteorological Analysis Tools**, assimilating advanced weather forecast models and satellite data
- **Field hardware** (wireless sensors networks etc.) to be deployed in farmers fields for measurements and reporting purposes
- **Information exchange system**, to be used by farmers/water management companies and ENORASIS Service Platform for exchange of information.

After the development of the ENORASIS platform, three pilot implementations are foreseen, with adequate dispersion as regards to geographical/ climate criteria, operational approaches and crops differentiation.

For more information, please visit www.enorasis.eu.

ENORASIS at a glance

Contract number

GA No 282949

Project coordinator

DRAXIS Environmental SA

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Project website

www.enorasis.eu

Community contribution

2.085.965, 00 €

Duration

January 2012- December 2014

Partner	Country
DRAXIS Environmental Technologies S.A.	Greece
Rhenish Institute for Environmental Research, University of Cologne (RIU)	Germany
Institute of Soil Science and Plant Cultivation- State Research Institute (IUNG-PIB)	Poland
Noveltis SAS	France
Faculty of Technical Sciences, University of Novi Sad, Biosense Centre	Serbia
Imaxdi Real Innovation S.L.,	Spain
The Cyprus Institute	Cyprus
University of Patras	Greece
Institute of Earth Sciences (SUPSI)	Switzerland
Teknoset Ltd	Turkey
Unisoft Romania S.A.	Romania
Q-PLAN North Greece Ltd.	Greece
Public Water Management Company "Vode Vojvodine"	Serbia

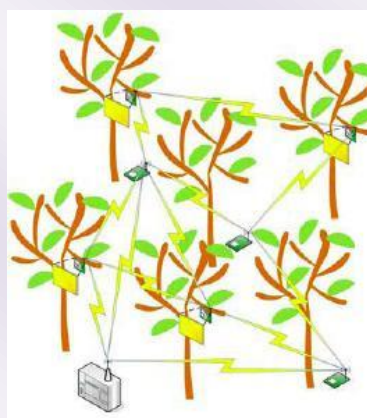
2. State-of-the-art and other reports available by ENORASIS

During the first semester of the project, partners work was focused on three axes: **identification of basic technical requirements, business modelling** and **use case scenarios definition**.

Five interesting reports that resulted from project first semester work are publicly available.

Visit ENORASIS website www.enorasis.eu/page/deliverables and download!

A comprehensive state-of-the-art review of the main scientific and technical fields addressed by ENORASIS project (Wireless Sensor Networks in precision agriculture, sources of Remote Sensing data, GIS applications for Irrigation Management, Interoperability standards, Internet Services for Irrigation Management etc.) is presented in **state-of-the-art technical analysis report**.

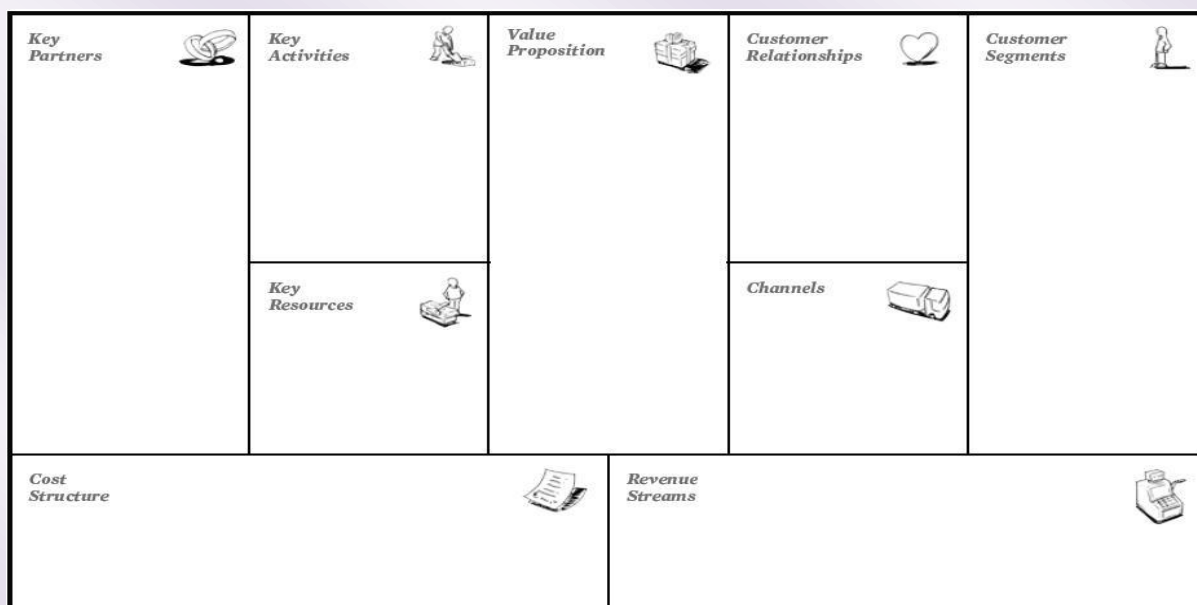


Modelling aspects of ENORASIS with emphasis in irrigation scheduling, weather forecast modelling, user and data needs were also thoroughly investigated (**agricultural process analysis report**).



The **irrigation water governance report** depicts the current irrigation, water governance and pricing situation of all countries represented in the ENORASIS project plus some more European Mediterranean countries, in the context of Water Framework Directive (WFD) and Common Agricultural Policy (CAP).

The **ENORASIS business models report** Using the Business Model Canvas Methodology, several alternative business models for the adoption of ENORASIS solution were elaborated, taking into account the different needs of stakeholders (farmers, water management authorities etc.). All business models developed are presented in the **ENORASIS business model report**.



The **ENORASIS platform use case scenarios and user requirements report** analyses the basic user requirements in order to define the technology implications of these requirements and develop the fundamental ENORASIS use case scenarios.

3. ENORASIS Meetings

ENORASIS kick-off meeting was organized in **Thessaloniki (Greece)**, on **9-11/2/2012**. All 13 partners were represented and contributed with ideas and expertise to ensure the smooth implementation of the crucial first semester of the project.





The project consortium met for the **second project meeting in Cesme (Turkey) on 12-13/7/2012**. The discussion focused mainly on several technical issues regarding the development of the ENORASIS platform (modeling, sensors and other hardware, data input, features etc.) as well as on the preparation of the pilot implementations foreseen (pilot

locations and crops, equipment needs, guidelines etc.)

The project meeting was combined with a fruitful study visit of the Aegean Agricultural Research Institute in Menemen/Izmir. There the consortium had the opportunity to observe an installation for smart irrigation in a pomegranate field (provided by project partner TEKNOSET, www.teknoet.com), with the use of sensors and automation in full function and to exchange ideas regarding smart irrigation with the staff of the Institute.



4. News

➤ **STREAM project policy seminar and final conference**



Funded by the 7th FP of EC, **STREAM project** disseminates the results of EU water research projects through various communication tools, policy and training activities. In autumn 2012, a Policy Seminar titled "Sustainable water management and agriculture"

will be organized by STREAM and the project **Final Conference** will be held in Brussels on December 3-4 2012. For more information, visit www.stream-project.eu.

➤ **World Water Week**

The Stockholm International Water Institute organizes World Water Week in Stockholm on August 26-31 2012 as the annual global meeting place for promoting exchange of views, experience and expertise in water and development. The theme for 2012 is "Water and global food safety".

For more information visit www.worldwaterweek.org.



➤ **SKINT project summer course and final conference on "The WFD and the sustainable management of water resources"**



The North Sea Region Programme 2007-2013 **SKINT project** aims at improving the implementation of the European Water Framework Directive (WFD) and Floods Directive (FD) by facilitating communication between disciplines. For project purposes, a summer course with theme "The Water Framework Directive and the sustainable management of

water resources" will be organized on September 5-6 2012 by the Hamburg University of Applied Sciences. Aim of the course is to disseminate information about WFD implementation in different countries in EU. The project **final conference** will be held in Hamburg on September 18 2012. For more information visit <http://northsearegion.eu/ivb/projects/details/&tid=98>.

➤ **Sustainable Irrigation 2012**



The 4th International Conference on Sustainable Irrigation and Drainage (Management, Technologies and Policies) will be organized by the University of South Australia and the Wessex Institute of Technology in Adelaide (Australia) on December 11-13 2012. Topics include among others irrigation management, irrigation modeling, irrigation systems and planning. For more information visit www.wessex.ac.uk/12-conferences/sustainable-irrigation-2012.html.

➤ **Publications**

Find the brand new publication **“ICT for agriculture, rural development and environment: Where we are? Where we will go?”** in the ENORASIS portal knowledge base at www.enorasis.eu/page/irrigation-management (No 8). Book edited by Tomas Mildorf and Karel Charvat jr. (Czech Centre for Science and Society, Wirelessinfo). Many thanks to Karel Charvat jr. for the upload.

The European Environment Agency (EEA) published the first report of thematic assessments to be published in 2012 to support discussion and development of the **‘Blueprint to safeguard Europe’s Water Resources’**. The report summarizes the state of Europe’s water resources and the pressures they face, based on EEA earlier reports. It focuses on resource efficiency and describes the opportunities for more efficient water use and avoiding pollution across all sectors, while staying within sustainability boundaries. The report is available in pdf format at www.eea.europa.eu/publications/towards-efficient-use-of-water.

5. Learn more about ENORASIS

Visit the **ENORASIS knowledge web portal** www.enorasis.eu for information about the project and project activities, and the **ENORASIS portal knowledge base** to get access to useful material about technological aspects (wireless sensor networks, remote sensing data, GIS applications), modelling aspects, Water Governance Legal and other issues, and irrigation management.

All project deliverables of public dissemination level as well as project dissemination material (leaflets, posters etc.) are available in www.enorasis.eu/download.

Also join ENORASIS in social media to take part in our web-community of irrigation management interested stakeholders and get informed about all project news and activities.



: ENORASIS FP7 Project (page)



: Enorasis_FP7



: ENORASIS FP7 PROJECT (Group)

Access to ENORASIS social media is also possible from <http://www.enorasis.eu>