



Dear reader

I am pleased to welcome you to the fourth issue of ENORASIS FP7 Project newsletter. The project has reached its final phase, with the four ENORASIS pilot schemes running for second cultivation season and ENORASIS workshops taking place all over Europe. Two scientific workshops and two policy ones have already been organized in Serbia, Greece and Cyprus, with three additional forthcoming in autumn 2014 in Poland and Turkey. And on the top of the project publicity events, we are happy to announce the organization of ENORASIS parallel event at [IRLA 2014 International Symposium](#) on “The effects of Irrigation and Drainage on Rural and Urban Landscapes”, 26-28 November 2014, Patras, Greece.

All valuable feedback gathered from pilot and dissemination actions with possible end-users and other irrigation stakeholders helps us to set a firm basis for the commercial exploitation of ENORASIS.

In the following pages you can learn more about the progress of the project. We are always looking forward to receiving your comments and feedback.



Dr. Machi Simeonidou
ENORASIS project manager
E: msimeonidou@draxis.gr

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ABOUT ENORASIS

ENORASIS is a revolutionary smart irrigation system for farmers and water providers. It helps to monitor water use and irrigate only where and when is needed and only for as long as needed. It integrates the latest advances in the fields of:

- **Weather prediction systems** that exploit satellite observations
- **Irrigation optimization techniques**
- **Wireless sensor networks** applied in crops

An operational field prototype of the ENORASIS system is currently in use at 4 pilot sites across Europe, tested in different crops, climatic conditions and operational approaches.

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 at:

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 at a glance

CONTRACT NUMBER
GA No 282949

PROJECT COORDINATOR
DRAXIS Environmental SA

CONTACT PERSON
Dr. Machi Simeonidou
msimeonidou@draxis.gr

PROJECT WEBSITE
www.enorasis.eu

COMMUNITY CONTRIBUTION
2.085.965,00 €

DURATION
January 2012- December 2014

PARTNERS	URL	COUNTRY
DRAXIS Environmental Technologies S.A.	www.draxis.gr	Greece
Rhenish Institute for Environmental Research, University of Cologne (RIU)	www.eurad.uni-koeln.de	Germany
Institute of Soil Science and Plant Cultivation- State Research Institute (IUNG-PIB)	www.iung.pulawy.pl	Poland
Noveltis SAS	www.noveltis.fr	France
Faculty of Technical Sciences, University of Novi Sad, Biosense Centre	www.biosense.uns.ac.rs	Serbia
Imaxdi Real Innovation S.L.	www.imaxdi.com	Spain
The Cyprus Institute	www.cyi.ac.cy	Cyprus
University of Patras	www.atmosphere-upatras.gr	Greece
Institute of Earth Sciences (SUPSI)	www.supsi.ch	Switzerland
Teknoset Ltd	www.teknoset.com	Turkey
Unisoft Romania S.A.	www.unisoft.ro	Romania
Q-PLAN North Greece Ltd.	www.qplanng.gr	Greece
Public Water Management Company "Vode Vojvodine"	www.vodevojvodine.com	Serbia



ENORASIS@ INTERNATIONAL FAIRS



With the aim of collecting feedback from possible ENORASIS end users about their needs and expectations from a smart irrigation system, ENORASIS was presented in two international agricultural fairs:

- a) The **25th International Fair for Agricultural Machinery, Equipment and supplies AGROTICA 2014**. The fair took place in Thessaloniki, Greece from January 30th to February 2nd 2014 and it was a great success attracting thousands of visitors from Greece and other countries. ENORASIS participated with a stand presenting all project outcomes.
- b) The **81st Novi Sad International Agricultural Fair** that was held from May 20th to 26th 2014 at Novi Sad, Serbia. It is the leading trade fair in the field of agribusiness in the Western Balkans and Southeastern Europe connecting farmers, manufacturers, retailers, professionals, scientists, politicians, business delegations and representatives of the media.



ENORASISEVENTS

Novi Sad, Serbia

TITLE

The development components of Irrigation in Serbia

DATE AND VENUE

June 18th 2014, Rectorate of University of Novi Sad, Novi Sad, Serbia

ORGANISER

PWMC Vode Vojvodine (www.vodevojvodine.com)

PARTICIPANTS

50



With the target to present ENORASIS and initiate a policy debate about the adoption of sustainable irrigation practices in Serbia, ENORASIS workshop entitled **"The developments components of Irrigation in Serbia"** was organized last June in **Novi Sad, Serbia**, by the **Public Water Management Company Vode Vojvodine**.

Various stakeholders in the field of irrigation were adequately represented- educational, scientific and research institutions, authorities' representatives, water management companies and irrigation water users. Their different roles and contribution to the development of irrigation in Serbia was presented and discussed.

Among others, the following aspects were presented and discussed:

- Serbian government's plans regarding irrigation, by Ministry of Agriculture and the Environment
- Supporting services for irrigation in Serbia, by Provincial Secretariat for Agricultural, Water Management and Forestry
- Irrigation and irrigation potentials in autonomous in Vojvodina and Republic of Serbia presented by VoVo
- ENORASIS technical aspects
- ENORASIS pilot in Serbia, by Delta Agrar
- Network models of regional hydro-systems and spatial multi-criteria assessment of soil capacity for irrigation in Vojvodina, by University of Novi Sad



ENORASISEVENTS

Limassol, Cyprus

TITLE

Improving Irrigation Water Use in Cyprus with the ENORASIS system

DATE AND VENUE

June 24th, 2014, Department of Agriculture's District Office and Phassouri Plantations Co

ORGANISER

Cyprus Institute (www.cyi.ac.cy)

PARTICIPANTS

30



Thirty agricultural and environmental researchers, officials, producers and consultants met at the Department of Agriculture's District Office in Limassol to get introduced to ENORASIS, a smart irrigation decision support system, on 24 June 2014.

Mr. Christos Hadjiantos from the Land and Water Use section of the Ministry of Agriculture, Natural Resources and Environment explained that the irrigation water management in Cyprus is high compared to other countries of the Eastern Mediterranean region. However, he stressed the need for farmers to employ more efficient and technologically advanced systems, considering the water scarcity issues that the country is facing.

Marinos Eliades from The Cyprus Institute explained how ENORASIS uses wireless soil moisture sensors and a small weather station to compute irrigation water needs. All measurements are sent hourly through the mobile telephone network. All data are displayed in a Web App and irrigation advice is provided daily through the Web or Mobile App. A 3-day high resolution weather forecast is integrated in the irrigation advice.

The proposed increases in irrigation water prices, as required by the European Water Framework Directive were also discussed. Smart irrigation systems such as the ENORASIS platform can contribute to water savings, which could reduce agricultural input costs.

After the presentations and discussions, the group was invited to see the ENORASIS system in a citrus orchard of the Phassouri Plantations Co in Akrotiri. Mr. Nicolas Zenonis from Phassouri Plantations explained how the ENORASIS system is helping them to optimize their irrigation water use.



The workshop was organized by the Energy, Environment and Water Research Center of The Cyprus Institute together with Department of Agriculture of the Ministry of Agriculture, Natural Resources and Environment. Special thanks are due to Ms. Margarita Hadjipieri and Christina Triantafillidou from the Department of Agriculture, Limassol District Office and Mr. Christos Tsimon from the Phassouri Plantations Co. for hosting the meeting.



ENORASISEVENTS

Heraklion, Greece

TITLE

Agrometeorology- ENORASIS

DATE AND VENUE

May 31st 2014, [12th International Conference on Meteorology, Climatology and Atmospheric Physics](#),
Campus of University of Crete, Heraklion, Crete

ORGANISER

Laboratory of Atmospheric Physics of University of Patras

PARTICIPANTS

80

The **12th International Conference on Meteorology, Climatology and Atmospheric Physics (COMECAP 2014)** was organized by the [Department of Chemistry, Environmental Chemical Processes Laboratory- ECPL](#) in collaboration with the [Hellenic Meteorological Society](#) and the [Mariolopoulos- Kanaginis Foundation for the Environmental Sciences](#) on 28-31 May 2014 at Heraklion, Greece.

A separate session about ENORASIS was organized by ENORASIS partner Laboratory of Atmospheric Physics of University of Patras on Saturday, May 31st 2014. There were six oral presentations and a coffee break dedicated to ENORASIS for discussions among the partners.

Around 250 participants attended the conference. It is estimated that one third of them followed the ENORASIS session. In general, there are several questions about the setup, the physical parameterizations and the validation of the weather forecast models, as well as the differences in irrigation practices among the pilot areas of the project. Positive comments were received about the friendly interface of the ENORASIS platform. Many discussions were made at the coffee break about the future possibilities to install/validate the ENORASIS meteorological component to other areas.

In general, the impact of the event was significant for the scientific community of meteorology. The project had received attention and interest from these experts since it was acknowledged that it was a step beyond the state of the art in the field of weather forecasting. Additionally, it was of great interest the use of such detailed meteorological forecasts in a “real-life” application via the ENORASIS platform





NEWS

ENORASIS @ IRLA 2014 International Symposium

We are in the pleasant position to announce that ENORASIS project will organize its final conference as a parallel all-day event of [IRLA 2014](#) on November 27th 2014 at Patras, Greece.

The **1st International Symposium regarding the Effects of Irrigation and Drainage on Rural and Urban Landscapes (IRLA2014)** is organized in the framework of "[Efficient Irrigation Management Tools for Agricultural Cultivations and Urban Landscapes \(IRMA\)](#)" project which is financed by the [European Territorial Cooperation Programme \(ETCP\), GREECE-ITALY 2007-2013](#).



The symposium aims to highlight the effect of irrigation (the most significant water consumer) and drainage to rural and urban landscapes with three thematic sessions:

- Sustainable irrigation and drainage approaches in the context of agricultural cultivations
- Sustainable irrigation and drainage approaches in the context of urban green infrastructure and landscape architecture projects
- Irrigation and drainage policies and environmental aspects.

The symposium is organized by IRMA partner [Development Agency of Western Greece Region S.A.](#), under the scientific support of the [Technological Educational Institution \(TEIEP\) of Epirus](#). More than 200 participants are expected from more or less 15 countries. Call for submissions of research papers, posters and project presentations is still on.

ENORASIS parallel event will be entitled "The future of sustainable irrigation management in Europe" and will be split in two sessions: a) Technologies and innovations and b) Water policies and strategies followed by a round table discussion with invited speakers from EC, other research projects and irrigation experts.

More detailed agenda will be announced soon on www.enorasis.eu.



ENORASIS @ HORIZON webpage

<http://ec.europa.eu/programmes/horizon2020/en/news/smart-way-irrigate-crops-%E2%80%93-and-save-water>

