

Wat€rnomics

Project Website

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D7.1

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Revision history

Version	Date	Modified by	Comments
1.0	28/02/2014	Edward Curry	Initial Version

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1. Introduction

In order to facilitate Waternomics project dissemination the project has produced a public project website with a description of the project. The Waternomics website was designed and written by NUIG and supported by each partner with feedback.

The website has the following sections:

- Home
- About
 - Objectives
 - Impacts
 - Deliverables
- Partners
- Publications
- Contact
- Internal

The project will be updated with results for the project as needed. In this way, the website serves the project's dissemination objectives.

2. Sample Website Screenshots

2.1. Home


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Deputy Mayor of Thermi visits Insight Galway
Deputy Mayor Socratis Fanellos of the Municipality of Thermi, Greece joined the Waternomics kickoff meeting at Insight Galway.



Waternomics for Domestic Usage
Pilot location: Municipality of Thermi, Greece



Waternomics for Corporate Usage
Pilot location: Milano-Linate Airport, Milan, Italy



Waternomics for Municipal Usage
Pilot location: Municipality of Sochaczew, Poland

About WATERNOMICS

Climate change, increased urbanization and increased world population are several of the factors driving global challenges for water management. In fact, the World Economic Forum has cited "The Water Supply Crises" as a major risk to global economic growth and environmental policies in the next 10 years. In parallel, the United Nations has called for intensified international collaboration.

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2.2. About

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About WATERNOMICS

The key problem addressed in WATERNOMICS is the lack of water information, management and decision support tools that present meaningful and personalized information about usage, price, and availability of water in an intuitive and interactive way to end users. This introduces limitations in the efforts to manage water as a resource which including the following:

- Awareness:**
End users do not have access to water information (i.e. availability, consumption, pricing) at the moments that decisions about water consumption are being taken to make behavioural change.
- Incentive:**
Due to billing, pricing, awareness or metering aspects, end users may not have an incentive to make behavioural change.
- Information provision:**
Decision makers do not have access to information platforms to make organizational change.
- Integration & Analysis:**
Personalized water information can only be created by combining publically available water information with private water usage information only available to water service providers.
- Methodology:**
Guidelines for water management system design are lacking.
- Faults:**
Poor behaviour, organizational errors, and water losses go undetected.
- Benchmarking:**
End users at all levels do not know if their individual water consumption

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Navigation

- About
- Objectives
- Impact
- Deliverables

2.3. Objectives


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Objectives

Broad Objectives:

- To introduce demand response and accountability principles (water footprint) in the water sector.
- To engage consumers in new, interactive, and personalized ways that bring water efficiency to the forefront and leads to changes in water behaviours.
- To empower corporate decision makers and municipal area managers with a water information platform together with relevant tools and methodologies to enact ICT-enabled water management programs.
- To promote ICT enabled water awareness to millions of people using airports and water utilities as pilot examples.
- To make possible new water pricing options and policy actions by combining water availability and consumption data.

Specific Objectives:

1. **Platform:** To develop the Waternomics Platform that integrates water usage related information from meters, sensors, data analysis (leak and fault detection), and hydro-meteorological information to offer water information platform and services to end-users.
2. **Analysis Techniques:** To develop data analysis techniques that include fault detection diagnosis rules for water networks using consumption data, historical benchmarking, like equipment benchmarking, and simulation methods to support water conservation strategies and behaviour change recommendations.
3. **Software Applications:** To develop and deliver personalized information services to end users and decision makers via dashboards, smartphone applications and web portals (Platform Applications).

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Impact

The WATERNOMICS broad level objectives support the following project outcomes which are in line with the expected impacts of the work program:

- The introduction of demand response and accountability principles in the water sector.
- The engagement of consumers in new, interactive, and personalized ways that bring water efficiency to the forefront and lead to changes in water behaviour.
- Providing corporate decision makers and municipal area managers with decision support tools and methodologies to enact ICT-enabled water management programs.
- The promotion of ICT enabled water awareness to millions of people using airports, water utilities, and municipalities as pilot examples.
- New water pricing options and policy actions made possible by combining water availability and consumption data.

At the macro-level, shows project outcome benefits across the targeted stakeholder groups.



Domestic consumers

Increased awareness on water consumption
Ability to make informed decisions on water conservation measures
Reduced water costs
Security of supply



Water suppliers

Reduced stress on water infrastructure
Smarter water grids
Improved communication with users
Potential for demand response tariffs



Commercial users

Major cost efficiencies
Real time monitoring and detection capability
Improved environmental credentials
Awareness and real-time information



Europe

Increased ICT innovation
Potential for innovative technology export
Potential for jobs growth
Increased cost competitiveness

Figure 1 - Targeted Stakeholders and Impact Areas

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