



Objective

“ICT for Water Resources Management”

in WP2013

Grazyna Wojcieszko

European Commission
DG CONNECT

Communication Networks, Content and Technology
Smart Cities and Sustainability unit

Objective

“ICT for Water Resources Management”

in WP2013

- Focus on improvement of water management at **3 levels**: domestic, corporate and city level.
- Brings together the **ICT** and **water stakeholders** in joint research, in order to document the ICT potential via lessons learned from real-life testing and demonstration experiments.

Objective ICT-2013.6.3

“ ICT for water resources management ”

Targeted outcomes:

- To **pilot and demonstrate** innovative ICT systems and services for efficient water use and reuse, in order to improve household, business and societal awareness.
- To **induce changes** in **consumer behavior** and to enable the introduction of innovative resource and demand management schemes and adaptive pricing incentives.

Objective ICT-2013.6.3

“ ICT for water resources management

The call:

<https://ec.europa.eu/research/participants/portal/page/cooperation?callIdentifier=FP7-ICT-2013-11>

Presentations at ICT proposers days 2012

http://ec.europa.eu/information_society/events/cf/ictpd12/stream-items.cfm?id=179&parent=8424

Objective ICT-2013.6.3

“ ICT for water resources management ”

Key research challenges :

- To provide **quantifiable evidence** of the **potential of ICT** to contribute to efficient water resources management.
- To **validate** ICT-enabled innovations in **real-life operational settings** with the active involvement of stakeholders and end users from the water and the ICT domain.

Objective ICT-2013.6.3 ICT for water resources management

Projects should cover:

- (i) new ICT research** and/or innovative integration of ICT-enabled solutions for water resources management at domestic, public/private building industry and/or city level,
- (ii) substantial validation** of the proposed ICT solutions in **at least two real-life** operational environments, over a sufficient period of time to cover seasonal variations, and with the involvement of real users from the responsible water operators, households and the ICT industry,
- (iii) assessment of impact** of the proposed solutions and preparation of a business case including open access options and possible take-up activities, and
- iv) a final dissemination event**, including a public demonstration and a "hands-on" training of targeted users.

Objective ICT-2013.6.3

“ ICT for water resources management ”

Expected impact:

- Increased user awareness and modified behaviours concerning the use of water;
- Quantifiable and significant reduction of water consumption;
- Peak-period reduction of water and energy distribution loads;
- Improved resource efficiency and business operations of water utilities due to ICT;
- Increased rate of ICT-innovation in water management companies;
- Publications jointly authored by researchers from ICT and the water domain.

Funding schemes: STREPs

Indicative budget distribution: EUR 14 million

31 October 2012

Objective ICT-2013.6.3

“ ICT for water resources management ”

more information:

Participant Portal for FP7 Calls

https://ec.europa.eu/research/participants/portal/page/fp7_calls

grazyna.wojcieszko@ec.europa.eu

ICT for water resources management calls DG CONNECT(Objective ICT.6.3)

Call 2010



Call 2011

ICT solutions for Integrated Water Resources Management

3 key building blocks:

*Demand management systems,
Decision support systems,
Data management*

5 STREPs - 15M€

Call 2013

To **pilot and demonstrate** ICT systems and services for efficient water use and reuse to improve awareness.

To **induce changes** in **consumer behavior**.

From 18/9/12 to 16/4/13

STREPs - 14M€

Call 2012



Call 2011- results

The call requested ICT-enabled solutions for integrated water resources management, involving research along three building blocks: demand management, decision support systems and data management systems

UrbanWater 318602
ICeWater 317624
iWIDGET 318272
EFFINET 318556
WatERP 318603



Call 2011- results

ICeWater - to develop infrastructure for smart metering and real-time monitoring of water infrastructures, with the aim to lower consumption during peak periods, to detect and localise leakages in real-time and to optimise the water-energy nexus.

Validation : Milan (IT) and Timisoara (RO).

iWIDGET - to make households better aware of their water consumption patterns and help utilities and ICT industry with the sharing of such information to improve their demand forecasting capacities, while also contributing to a sustainable partnership of ICT and water domain stakeholders.

Validation : Barcelos (PT) and Waterwise (Southern Water region UK)

EFFINET - to improve the efficiency of drinking water networks by managing better consumer behaviour via advanced metering, monitoring of user demand profiles, fault detection and predictive control techniques and integration of information stemming from various sources.

Validation: Barcelona (ES) and Lemesos (CY).

WatERP - to develop a web-based open management platform to enable water supply distribution chains to be managed in a coordinated and customised way, based on open interfaces and standards. The aim is to improve coordination among water management actors and to foster behavioural change to reduce water and energy consumption.

Validation : Llobregat river basin (ES) and Leipzig water supply network (DE).

UrbanWater – to integrate advanced metering solutions, real-time communication of consumption patterns with predictive capability, adaptive pricing and customer empowerment tools.

Validation : urban setting in Scotland (UK) and Algarve (PT).

31 October 2012

Water resources management calls

Call DG CONNECT

ICT-2013.6.3 ICT for water resources management
From 18/9/12 to 16/4/13
STREPs - 14M€

To **pilot and demonstrate** ICT systems and services for efficient water use and reuse to improve awareness.

To **induce changes** in **consumer behaviour**

Call DG ENV

FP7-ENV-2013-WATER-INNO-DEMO
6.3 Improving resource efficiency
From 10/07/2012 to 04/04/2013
€ 40M€

*ENV.2013.WATER
INNO&DEMO-1
Water innovation demonstration projects*

*ENV.2013.WATER
INNO&DEMO-2
Ensuring the integration of water and innovation demonstration projects and support to transnational networks of procurers*

Call FP7-ENV-2013 WaterINNO&DEMO

<https://ec.europa.eu/research/participants/portal/page/cooperation?callIdentifier=FP7-ENV-2013-WATER-INNO-DEMO>

40mio €

Deadline: 04 April 2013 at 17:00:00

Background information on ICT for water resources management

Some interesting initiatives to consult:

Water supply and sanitation Technology Platform (external from Commission)

<http://www.wsstp.eu/site/online/home>

European Innovation Partnership on Water (ENV)

http://ec.europa.eu/environment/water/innovationpartnership/index_en.htm

Eureka Cluster : ACQUEAU (partnership with MS)

<http://www.acqueau.eu/>

Background information on ICT for water resources management

European Innovation Partnership on Water (ENV)

http://ec.europa.eu/environment/water/innovationpartnership/index_en.htm

EIPs should increase the impact of actions funded under Horizon 2020 by linking them to a broader strategy.

The Europe 2020 Flagship Initiative for an Innovation Union proposed the concept of European Innovation Partnerships (EIPs). DG Environment, in close cooperation with DG Research and Innovation and other DG's, has launched a proposal for a European Innovation Partnership on Water.

31 October 2012

Background information on ICT for water resources management

Eureka Cluster : ACQUEAU (partnership with MS)

<http://www.acqueau.eu/>

ACQUEAU is an industry driven EUREKA Cluster dedicated to water related technologies and innovation

supported by more than 25 countries and 70+ companies across Europe

OPPORTUNITIES HORIZON 2020

Funding will be focussed on the following challenges:

- Health, demographic change and wellbeing;
- Food security, sustainable agriculture, marine and maritime research and bio-economy;
- Secure, clean and efficient energy;
- Smart, green and integrated transport;
- Climate action, resource efficiency and raw materials;
- Inclusive, innovative and secure societies

Horizon 2020

http://ec.europa.eu/research/horizon2020/index_en.cfm