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### Open Workshop Fostering inclusive and sustainable economic growth, employment and decent work (SDG#8) through ICT job creation tools for ensuring water security (SDG#6)

September 30<sup>th</sup> 2016

UNESCO – Room IX

7 Place de Fontenoy - 75007 Paris

### Smart Water Projects Funded by the EC, links to sustainable water management developments



MAR Solutions - Managed Aquifer Recharge Strategies and Actions (AG128)



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United Nations International Educational, Scientific and Hydrological Cultural Organization Programme

Taken from: http://stories.undp.org/cultivating-change-in-papua/photos/2990072





# **ICT for Water Management- EC perspective**

Smart technology and ICT related to smart technology is a major current research and investment field internationally

Part of the "smart city" grid and initiatives

#### **Smart energy starting first**

- Pioneers in smart technology applications for domestic and industrial users
- Legislation related to smart energy meters already exists in some EU countries (e.g. France, UK)

Smart water follows, especially research around smart water AND energy, a major research issue for the EC

















# **ICT for Water Management- EC perspective**

#### Links to the Juncker agenda priorities:

- 1. A new boost for Jobs, Growth and Investment
- 2. A connected Digital single market
  - Better online access to digital goods and services
  - An Environment where Digital Networks and services can
    prosper
  - Digital as a driver to growth.
- 3. A Resilient Energy Union with a forward-looking Climate Change policy
- 4. A Deeper and Fairer Internal Market with a Strengthened Industrial Base















# **ICT for Water Management- EC perspective**

#### Part of the H2020 Digital Perspective for Europe

#### Smart technologies:

- To increase water efficiency
- To improve water management
- To manage water demand
- To reduce leakage



- To reduce energy for water utilities and households
- To increase end user awareness
- To affect end user behavioural change
- with (near) real time surveillance and feedback











Program

Cultural Organization .





### ICT and Water Management under FP7 and H2020

### **Targets**

- Assets management
- Business models
- Decision support system and monitoring
- End-user awareness
- Geographic Information Systems (GIS), OGC, Sensors
- Modelling, real-time process, knowledge extraction, stream data mining
- Ontologies, semantics, interoperability, standards
- Water regulation

















#### www.ict4water.eu





(AG128)

European











#### The vision:

to establish a thriving and interconnected ICT for the Water Community with the main objective of promoting synergies and knowledge exchange among all actors involved in water sector.

#### This vision is twofold:

- in one hand, contribute to advance in the consolidation of an ICT for the Water
  Community that will be better informed, defined and integrated than today;
- on the other hand, will help the results and outcomes from current research projects improving their exploitation plans and increasing their dissemination potential.

The target community will be mainly composed by different stakeholders including Water Authorities, Water Operators, System Integrators, ICT for Water technologies professionals, Policy Makers, and the relevant industry at large.

















# Background FP7/H2020: Funding on ICT and Water Management

2011-2012: CIP-ICT-PSP Thematic network 2012-2013: Five (5) Collaborative EU projects 2013-2014: Five (5) more Collaborative EU projects 2015: Five (5) Coordination and Support Actions (CSA) 2016: ...

Similar themes and targets: All targeting water authorities/utilities and end users

1<sup>st</sup> group: Emphasis (rather) on water authorities/utilities

2<sup>nd</sup> group: Emphasis (rather) on end users and their behavior

3<sup>rd</sup> group: Horizontal actions, dissemination

4<sup>rd</sup> group:...

Interdisciplinary approach

Partnerships between ICT equipment providers, Water Domains Experts, software companies and water authorities/utilities, and users

















# ICT for Smart Water Management Alignment EC perspective

**Smart technologies:** 

- To increase water efficiency
- To improve water management
- To manage water demand
- To reduce leakage
- To reduce energy for water utilities and households
- To Improve coordination among actors
- To advance in the **Nexus** concept (water-energy-Land)
- To cover agricultural, urban and industrial needs
- To increase end user awareness
- To affect end user behavioural change













### PROJECTS





EP Water Action Group











Cultural Organization

**Development of the Roadmap "***Emerging Topics and Technology Roadmap for Information and Communication Technologies for Water Management*" 2014/2015/2016

#### Actions

**Exchange of information- Common website-Contacts** 

Special sessions in Conferences/Publications

**Common development of standards and standardisation** 

**Common papers** 

Links with/participation in Water EIP relevant action groups

Lots of synergies



### PROJECTS WatERP





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# WIDEST

### Water Innovation through Dissemination Exploitation of Smart Technologies H2020-Water4a-2014







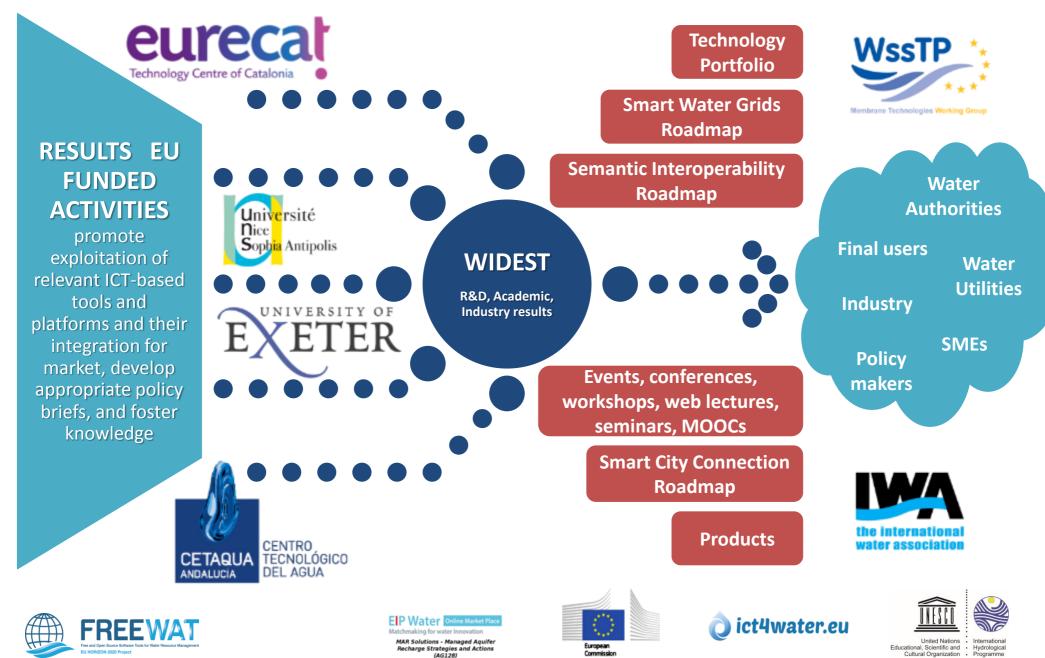






**WIDEST** 

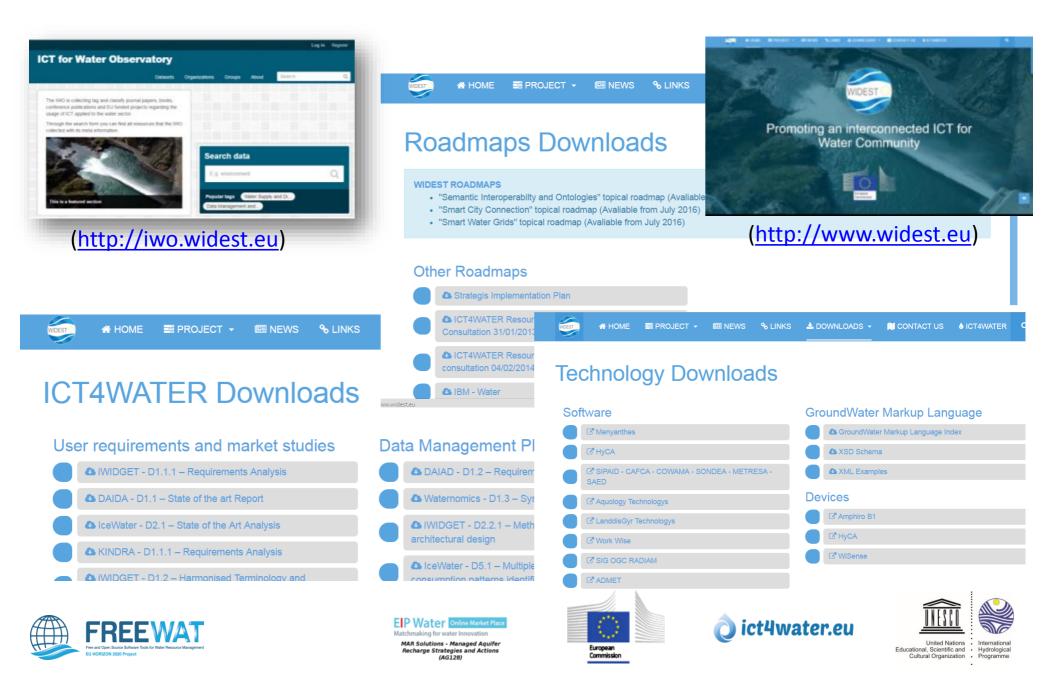






**WIDEST** 









### **Information Sources**



(http://iwo.widest.eu)



ict4water.eu



(http://www.widest.eu)

ICT and Water Management Roadmap 2016

2016 Rolling Plan on ICT Standardisation

Recommendations for Standards and Standardisation in the European **SMART Water Market** 















### THANK YOU FOR YOUR ATTENTION

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