Where water supply
meets demand

WatERP

www.waterp-fp7.eu

Member of the ICT and Water Management Cluster
The enabling role of ICT in water management

ict4water.eu

http://ec.europa.eu/digital-agenda/en/communities/ict-and-water-management

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WatERP

WatER
ENHANCED
RESOURCE
PLANNING

While 40% water savings could be achieved from technological improvements, this value is the sum of a series of different actions. It can be roughly estimated that improving coordination among actors could lead to water savings between 5 and 8%, with smart metering providing an additional 8 to 10%.

WatERP technological solution gives response to the coordination among actors building a **smart water solution.**

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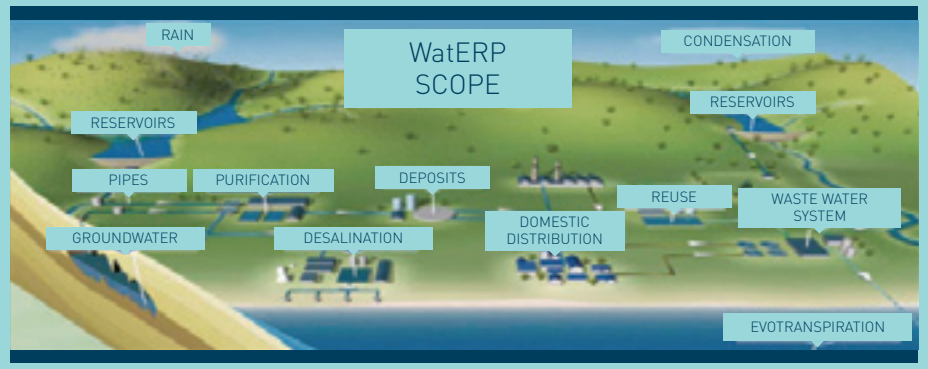
In a few words

1. Facilities multiple-scalable decisions
2. Water matching, from user to sources
3. Project validation in two opposite situations (scarcity – abundance)
4. IWRM & Data Accessibility

Outcomes

1. Domain definition including management actions
2. Interoperability framework based in open standards (OCG®)
3. Intelligent & efficient Water Data Warehouse for large amount of data
3. Hourly & daily Demand Management System
4. Decision Support Systems for water allocation and pumps management
5. Open Management Platform, an information hub to support decision making at different stages

how it works



Quantity of water that must be stored or produced to meet **future needs**

Quantity of water that must be **withdrawn from sources**

Quantity of water that must enter **distribuiton chain**

Quantity of water that must enter **distribuiton chain**

PRODUCTION → **REGULATION** → **CAPTATION** → **DISTRIBUTION** → **CONSUMPTION**

Monitoring of existing water supplies and estimation of future inflows

Management of water stocks (with production or reuse of water if necessary) to meet future needs

Withdrawals in function of water that must be fed to distribution

Distribution management to provide necessary water

Demand forecasting

By enabling a more dynamic and agile interaction among the different actors involved in water supply distribution, WatERP improves water governance while maintaining the autonomy and independance of the actors

WatERP presents a new concept to exchange supply and consumption knowledge across the entire water supply distribution chain. It will thus provide a major contribution to:

1. improve coordination among actors,

2. foster behavioural change,

3. reduce water and energy consumption,

4. optimize water accountability and

5. move forward water management in line with the Water Framework Directive (WFD)

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