





"Boosting Research and Innovation in the Water Sector: The Impact of EU-funded actions"

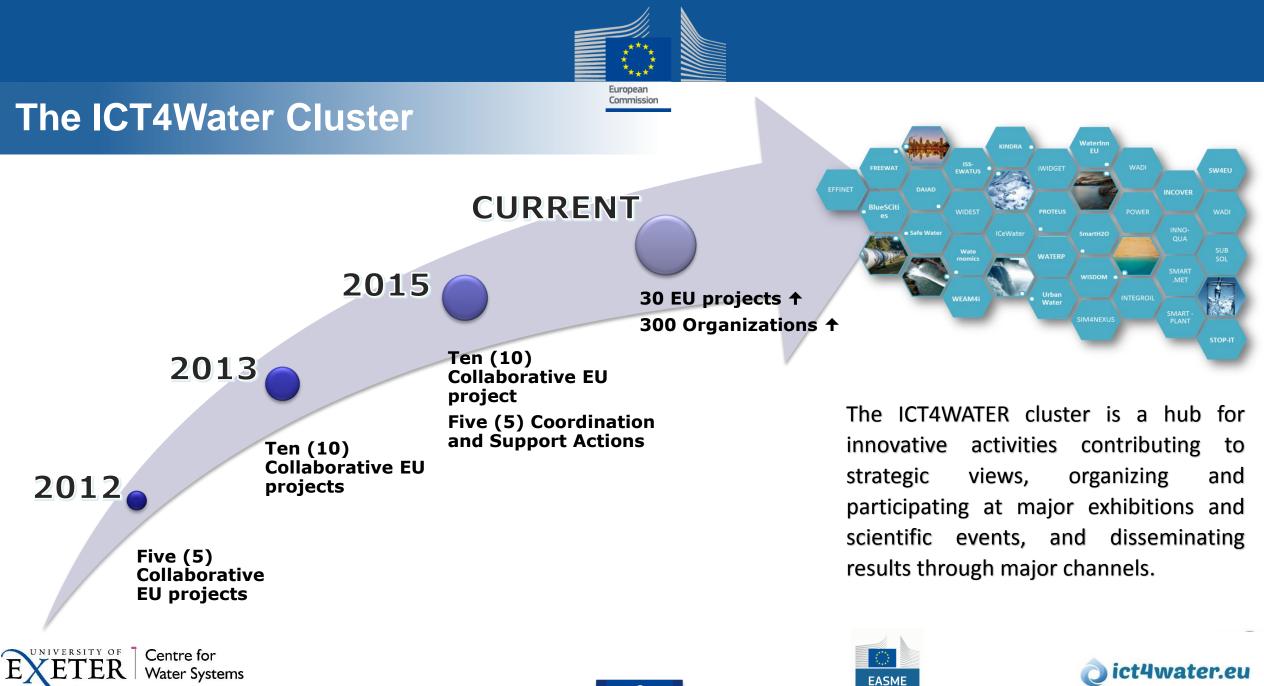
EASME

Executive Agency for SMEs

The ICT4Water Cluster



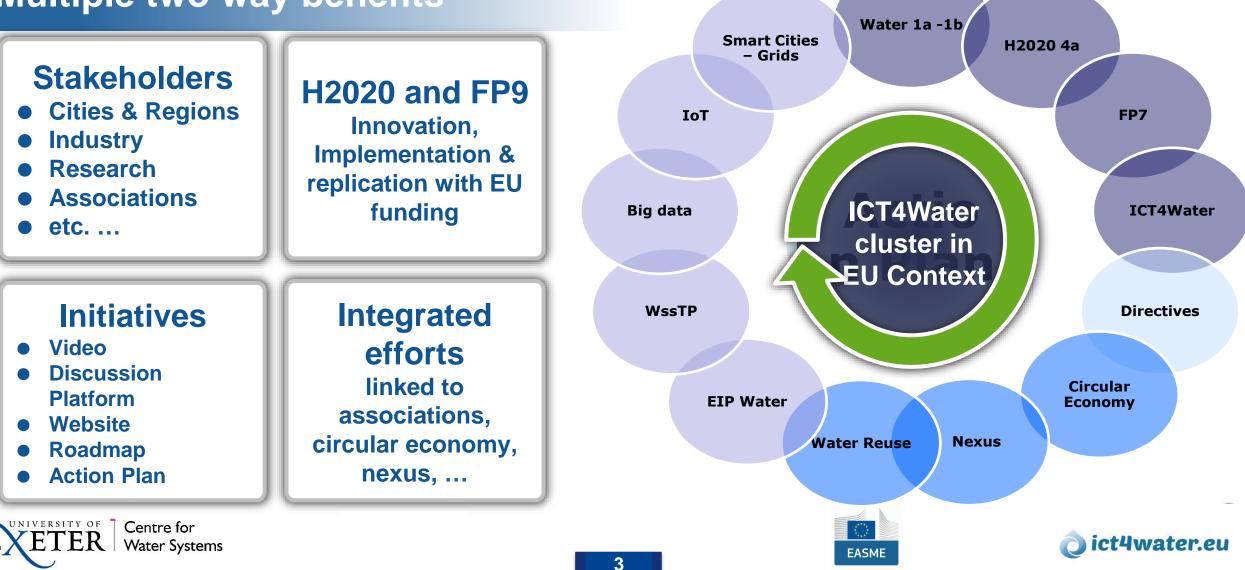
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Commission







Synergies







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- Exchange of information- Experience in common issues
- Maximize dissemination & Exploitation Special sessions in Conferences/Publications contact with relevant stakeholders
- Common development of guidelines, strategies, procedures and standards
- Joint papers among projects
- Links with/participation in Water (EIP/WssTP/IWA...) and ICT (AIOTI/BDVA...) relevant action groups (Ctrl+SWAN)
 - Building New opportunities

EVERYONE CAN LEAD INITIATIVES!!!







Evolution

XETER

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Sucess stories

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Summer School Project Events Interoperability pilot Smart Systems VaterInnEU FREEWAT for Water WIDEST 〇 KINDRA **BlueSCities** Management **ISS-EWATUS** Modelling, Simulation, Analytics WPS and ICT for Behavioural Change Client Pub/sub WPS Subscribe Client (POI) Client Execute 1 Post Notify FFF (Affected Areas) Pub/Sub Execute WatERP Alerts for WISDOM **WPS** Notify POIs LU the smart H2O project Flood Model urbanwater Email Client SOS GetObser **V**aterInnEU vation() Data VIDEST Post



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(Affected Areas)

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ict4water.eu



European Commission

Outcomes

Roadmap 2015

Focused on Water Management

Technological, social and organizational challenges:

- Cost/Benefit analysis of ICT

- Synergies across sectors

- Data sharing
- interoperability
- Standardization
- Indicators

Roadmap 2016

Focused in Water Management Main Gaps and Challenges to be addressed:

- · Big Data
- Data infrastructures
- Link with Smart Cities
- Nexus, Water-Food-Energy
- Standardization
- Lack of reliable field trials

Digital Water Action Plan 2017

Wider approach, Water Management, Treatment, Reuse, Circular Economy, every field where ICT can contribute

Creation of a **borderless Digital single market for water services** should be reinforced by creation of multi-stakeholders platform that should **Foster standardization and reliable field trials**

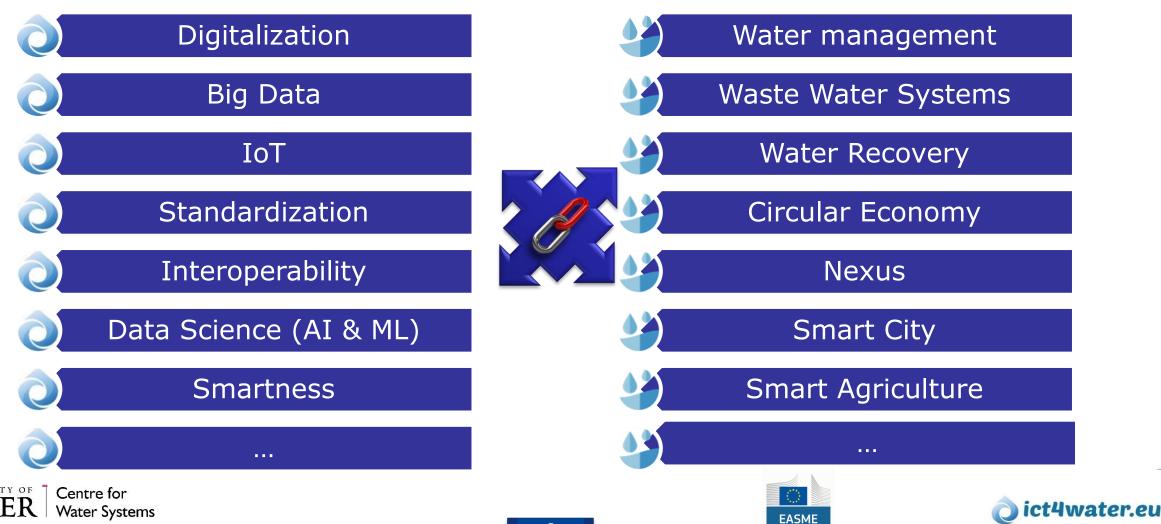




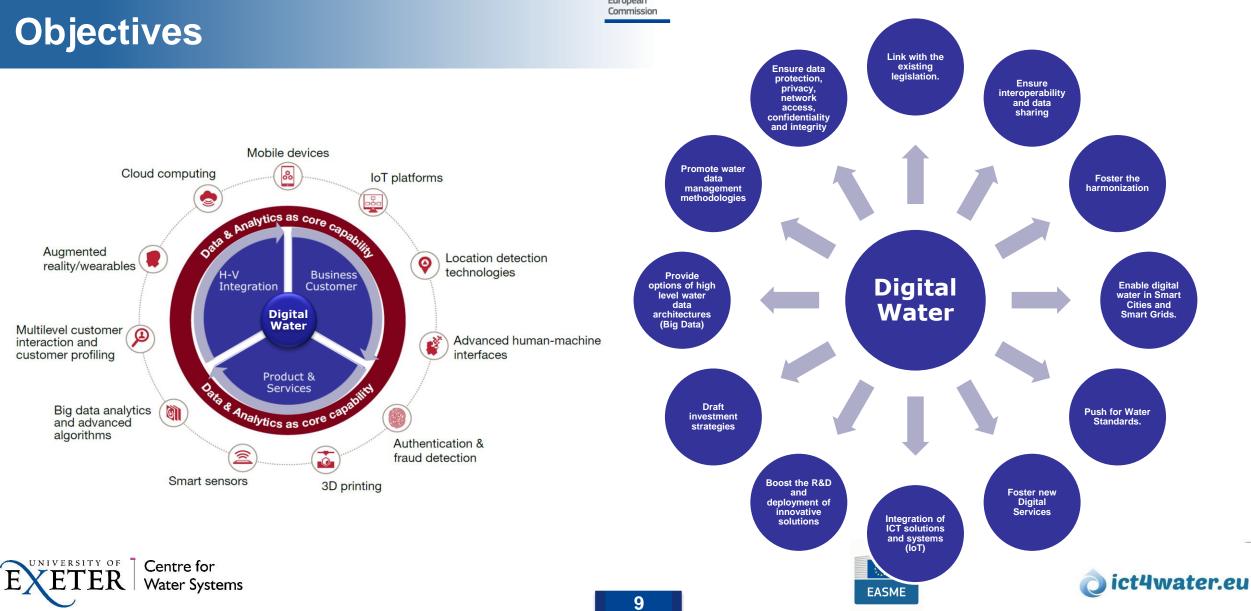




Scope

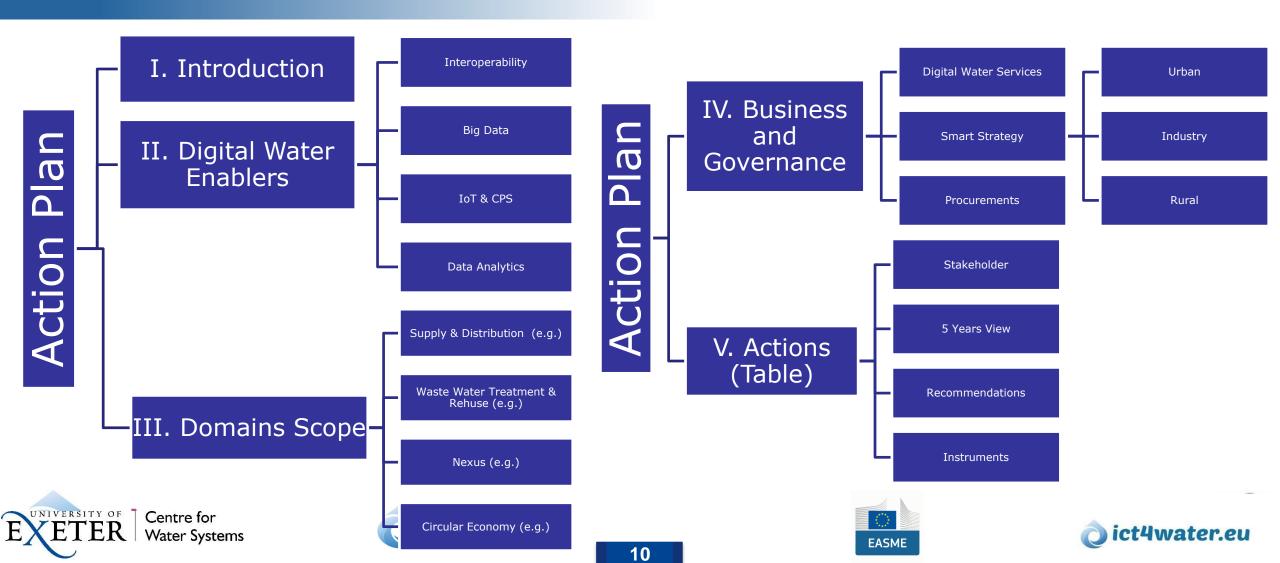








Structure





European Commission

Introduction



Both private and public entities can better understand the value of water if they maximize the potential of internal and external data to deliver insights to drive their decisions.

These insights then need to activate the ecosystem of stakeholders committed to addressing water quantity and quality issues to drive economic and business growth and social well-being. Simply put, better data for smart water strategies coupled with collective/aligned action to manage water risks and drive economic and business growth.



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- A flood of data...
- It is not just about the data it is about the quality of decisions
- Better profit of opportunities that data-driven insights can bring to the water industry
- The water sector is only starting to discover the potential that data-driven insights can offer.
- Data-driven business intelligence has the potential to radically transform the way water and water infrastructure is understood, managed and used.





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Needs



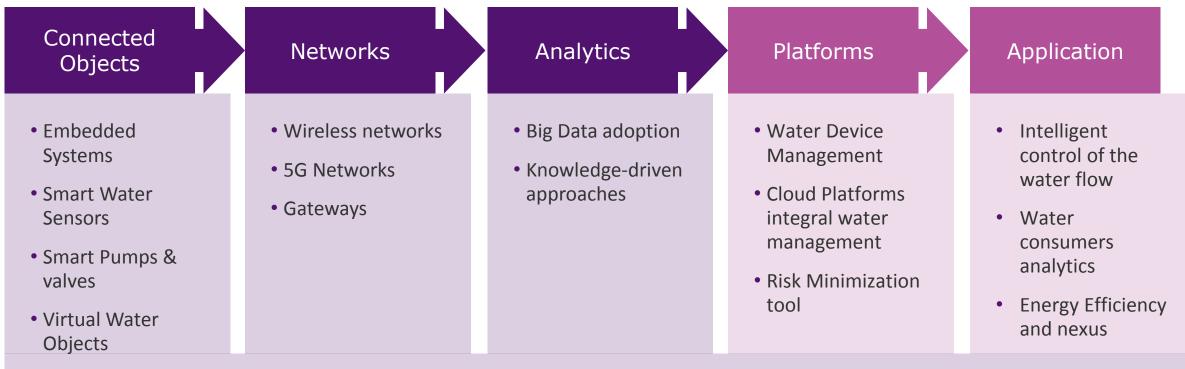


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Challenges

The ICT challenge for the Water Sector



Water Standards and Data Harmonization schemes









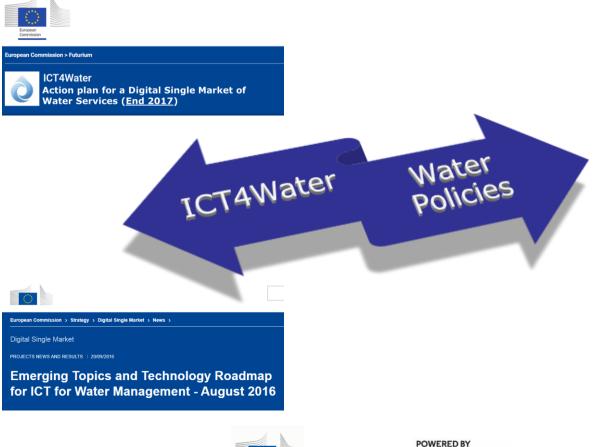
ICT4Water - Legislation

- Promote the links with the existing and future water legislation;
- Promote recommendations for <u>ensuring</u> <u>interoperability</u> and data sharing across services;
- Harmonising energy and water monitoring practices through the <u>smart metering;</u>

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Push for Water Standards which could help the development of the <u>European</u> <u>Digital Single Market for water</u> <u>services.</u>











ICT4Water - Legislation



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ICT4Water Action plan for a Digital Single Market of Water Services (<u>End 2017</u>)

Image: State Stat

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ICT4WATER use-case(s) for INSPIRE data models to develop 'building blocks' for re-use in other applications and improve current legislation;

Create awareness of the importance of Water Systems interoperability;

<u>Reduction of Stakeholders Fragmentation</u>, Water is a fragmented domain where decision-making legislative responsibilities in some cases are overlapped or unclear;

Smart water metering to encourage water conservation (e.g. dynamic water-pricing plans);

Promote <u>standardization and interoperability through</u> <u>the deployment and application of standards, e.g.</u> SAREF







More information

