

ICT4WATER: Data Sharing Action Group

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Action 1: Development and extension of smart data models

Task 11: Extend existing water and cross-domain **data models** > connected with activity in projects

- Connection with and contribution to EU initiatives like Smart Data Models pushed by FIWARE Foundation and Open and Agile Smart Cities
- Interaction with Data Space preparatory actions: GREAT project (Green Deal) and DS4SSCC (Smart and Sustainable Smart Cities and Communities)

Task 12: Create a **catalogue** of water related data models > Avoid reinventing the wheel in new projects

- Link with original sources; make them accessible via webpage
- Target: scientific community, industry and cities, policy makers
- Focus on cross domain data models; integrate in catalogue
- Focus on mechanism to make recent climate model predictions

Task 13: Engage and reinforce **collaboration with EU** and worldwide standardization bodies on water standardization (e.g. ETSI, OGC, ISO, etc)

Action 2: Demonstrate value of Data Sharing in the water sector

Task 21: Analysis of **successful experiences and barriers**

- Prepare repository of data sharing examples: benefits, barriers, solutions (link BM group)
- Survey to several cluster groups to populate the repository
 - ICT4water AGs
 - Smart city field: Sotirios
 - Energy field: BRIDGE
 - Water Europe – Digital Water Systems and Interoperability WG
 - Data Spaces – GREAT project and DS4SSCC project
 - Big Data Value Association – (e.g. Data Space Task Force; Smart Governance and Smart Cities Task Force)

Main challenges and actions related to the policy landscape: water and digital

Enforce data sharing at the core of EU policies

requirements to promote the use of sensors and modelling systems

leverage digitalisation potential in policies (e.g. UWWTD, BWD, WRD)

support a volume market

Promote the uptake of standard data models and semantic interoperability

link ontologies to EU water legislation requirements

Open Data publication through APIs respecting FAIR principles --> in compliance with the Implementing Act on High Value Datasets

promote the establishment of EU Data Spaces

disseminate across industry and utilities

AI act guidance

data governance, privacy and security concerns