



FREEWAT

Free and Open Source Software Tools for Water Resource Management
EU HORIZON 2020 Project



 **ict4water.eu**

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 30th 2016

UNESCO – Room IX

7 Place de Fontenoy - 75007 Paris

EIP Water and integrative, adaptive, open-source approaches towards policy recommendations

EIP Water Online Market Place

Matchmaking for water Innovation

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

Tom Baur (EIP Water)


USGS
science for a changing world



United Nations
Educational, Scientific and
Cultural Organization



International
Hydrological
Programme

Urgency in the water sector

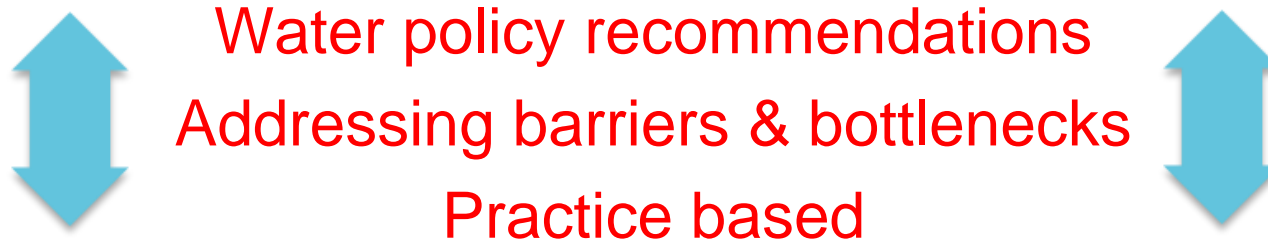
Global water crisis: **quality** (point source and diffuse pollution & traditional and emerging pollutants) and **quantity** (scarcity, droughts, floods, localised disparities):

- Likely negative effect on: **1.4bn jobs** heavily dependent on water
- **Top 1 risk** on global economy and society
- Nexus of water-food-energy-climate change as **overarching mega trend** to shape world in 2030
- Water crisis **increasing in time** in Europe (and worldwide)
- **Need to “green”** (adapt to climate change) water infrastructure, with €1.1bn/yr a very large economic sector

Europe has **leading** water sector and high innovation **potential**, but other innovation nodes do strongly compete in this global market.

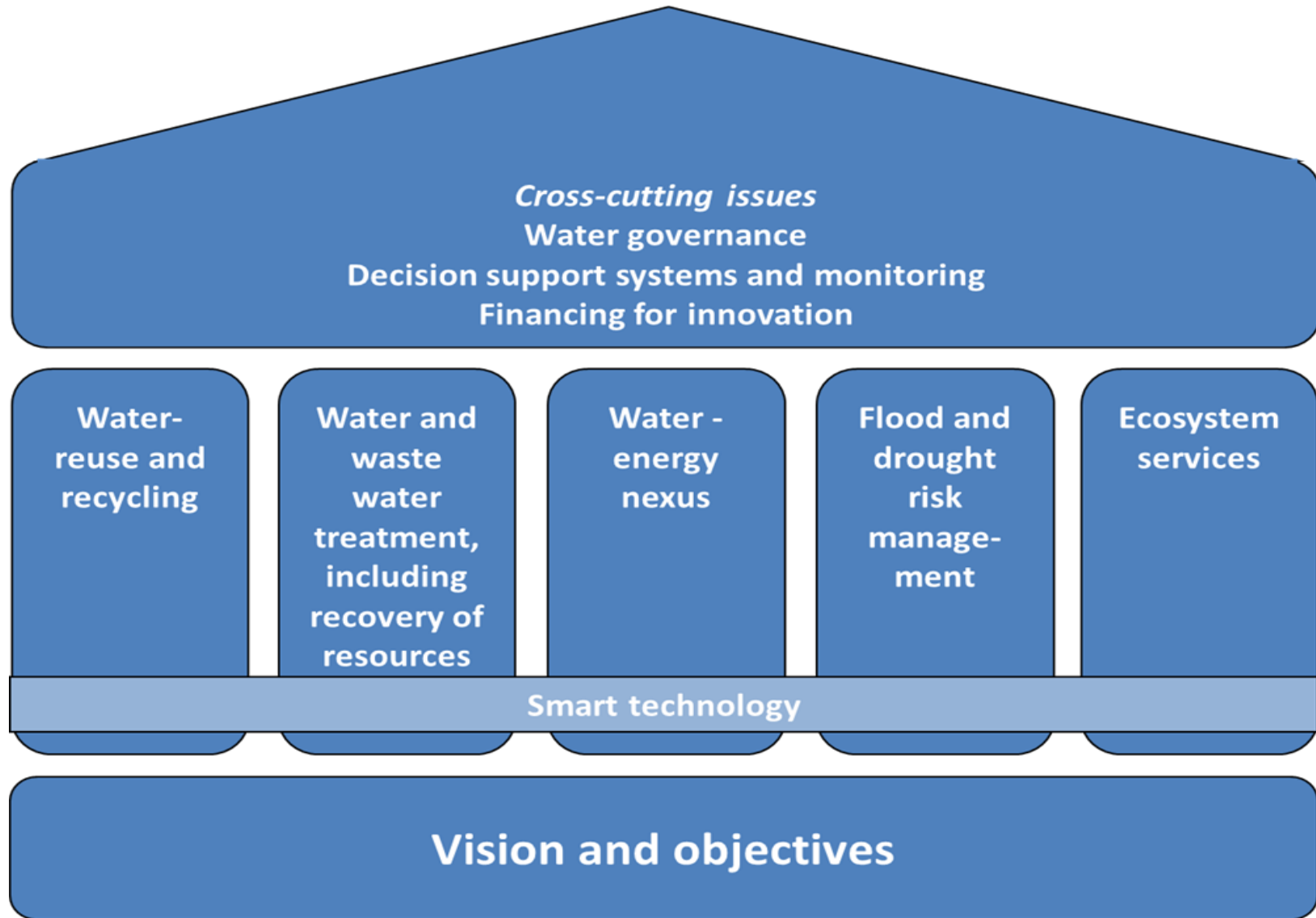
EIP Water

An initiative within the “EU 2020 Innovation Union”



- **Development of innovative solutions** involving the entire innovation value chain
- **Application, implementation, commercialization and dissemination** of innovative solutions
- **Identification of barriers** to innovation and practise-based translation into **policy recommendations**
- **Support water policy** implementation
- **Connect with relevant/adjacent initiatives**

EIP Water priority areas



DSS and EIP Water's approach

EIP Water and its stakeholders: seeking innovative solutions, addressing barriers and producing policy recommendations

Horizontal (cross-sectoral) platforms development: need to be pervasive to structure and cultivate innovation & follow through in accelerating DSS trends

Adaptive: localised learning and adjusting, inclusion of new info sources & methods as optimising mechanisms and shared responsibility

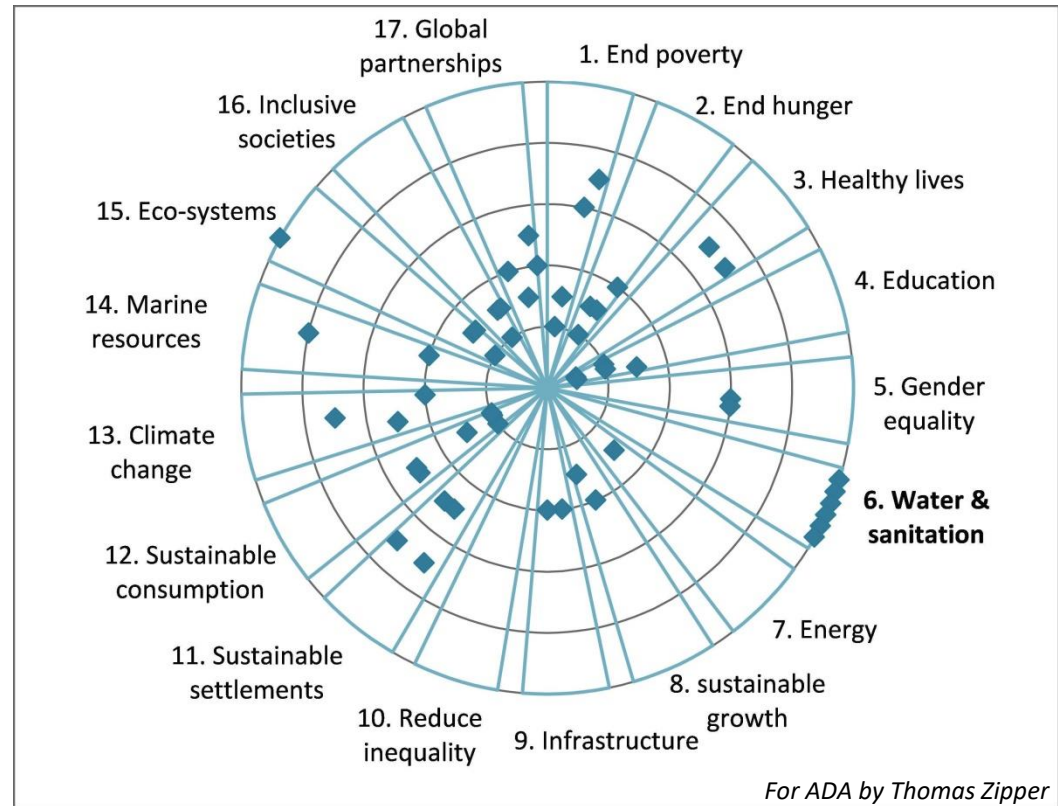
Open-source: market shift in favour (98% enterprise-level firms use in some capacity & proprietary source distributors adapt increasingly)

Harmonise: **still much to be done**, from sensor level infrastructure to higher levels in data analytics and security measurements

Cross-sectoral solutions needed

Water sector is a cross-sectoral affair – challenges and opportunities in **verticals** (health, energy, food and beverage, agriculture, tourism, chemicals, etc.) but **cross-sectoral, integral approaches** needed to break/lower market fragmentation, unify standards, create new business models with societal benefits

Water relevance in each SDG (sub)goal:



Harmonisation and standards

- Better unified standards across adjacent verticals (water, energy, agriculture, food, etc.)
- Better harmonisation between different water-related EC Directives (DWD, UWWT, greening of GAP, Marine Directive, monitoring standards and ETV, etc.)
- Better implementation at different governance levels (national, regional, local) e.g. in permitting of innovation demo-sites, uptake of WISE

Overall aim: maintain the set goals, but: reduce compliance- and legal risks & costs, reduce market fragmentation, increase innovation uptake, stimulate launching customers (first takers)

EIP Water and its stakeholders: work on addressing barriers & bottlenecks and produce policy recommendations

Closing and Q&A

Call for action: Use the **EIP Water** as one of your channels to address encountered barriers and bottlenecks in your work. To increase Europe's innovation potential in a global market. E.g. with white papers for policy recommendations, or by joining one of EIP Water's Action Groups.



Web: www.eip-water.eu

Email: contact@eip-water.eu

Media: [twitter.com/eip water](https://twitter.com/eip_water)

www.slideshare.net/eip-water