

Workshop SMART WATER MONITORING
“What low-cost sensors solutions for high efficiency water
monitoring networks”

From water monitoring to data

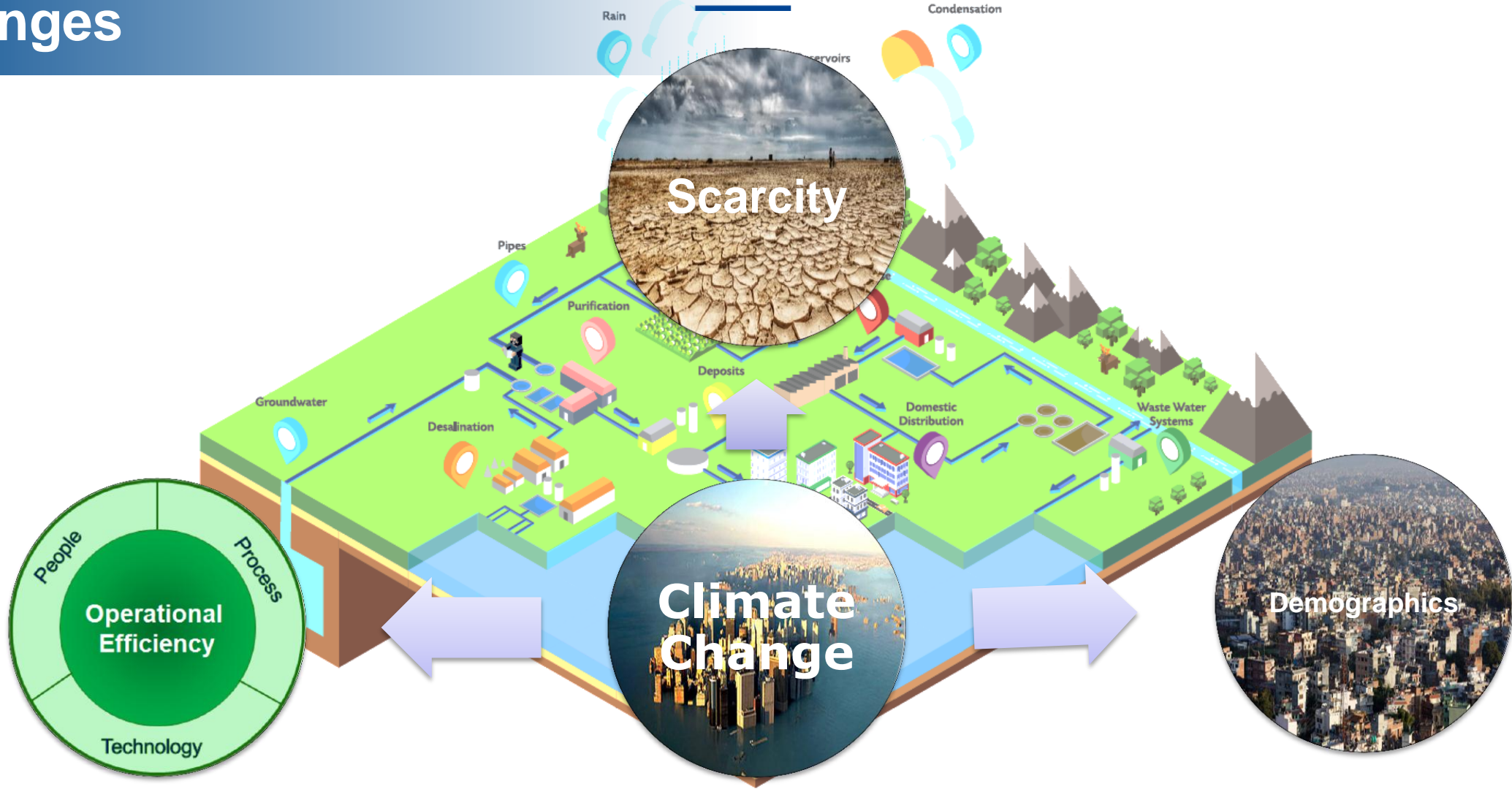


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European Commission

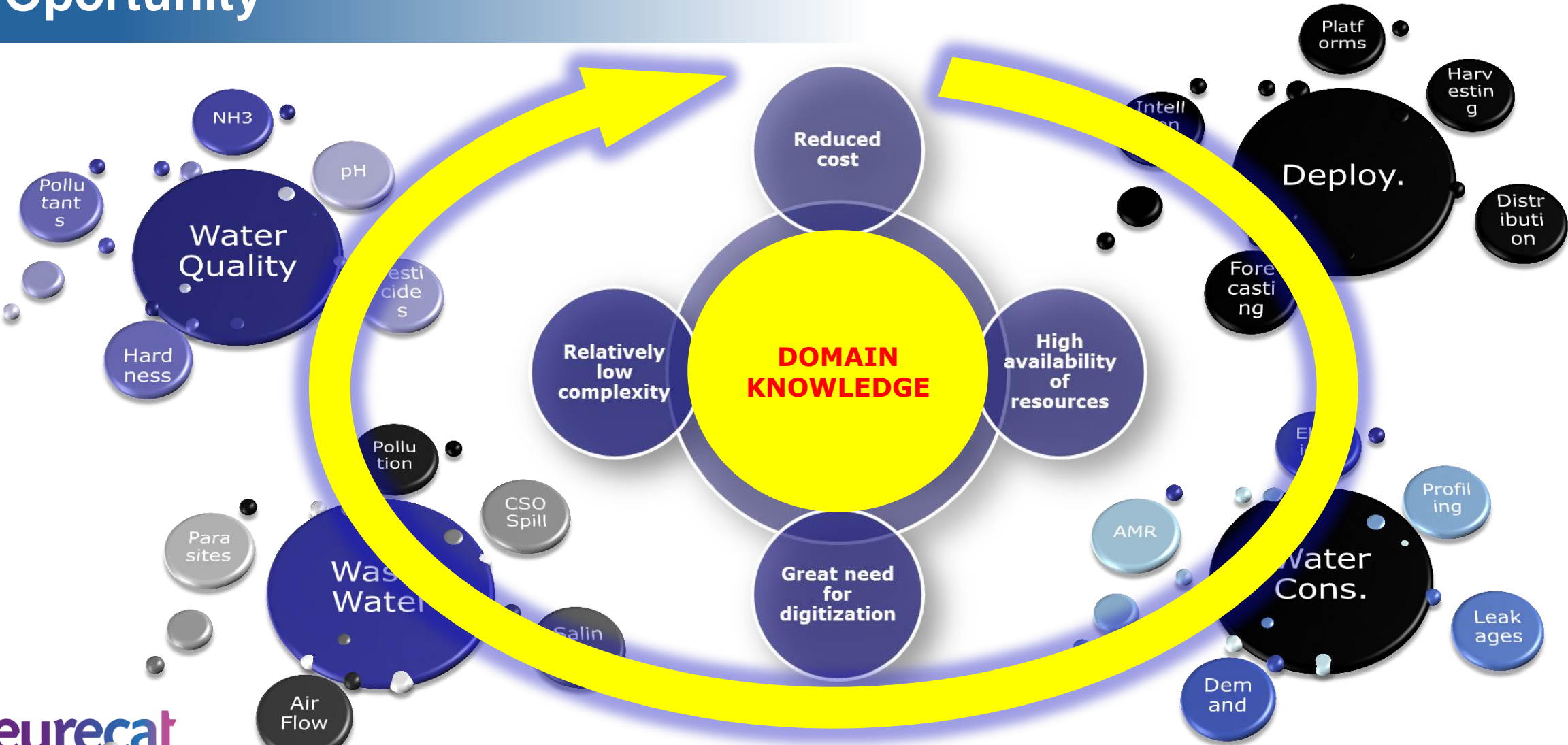
Challenges



Needs

- Guarantee water
- Intelligent control of water flow
- Risk-minimization for assets in the water infrastructure.
- Energy efficiency
- Legacy adaptation & Infrastructures obsolescence
- Improve work force, asset and operational management
- Low-cost water monitoring solutions
- Timely inform consumers for their water consumption
- Sustainable behavioral changes (all actors)
- Synergies across sectors
- Real-time
- ...
- Highly detailed water consumption data.
- Efficient and scalable data services
- Evolve Water Demand Management
- Improve pricing strategies
- Data sharing, Interoperability and Standardization
- Data privacy and security (CIP)
- Digital change management
- Low cost and reliable sensors/transducers
- Reduce water-wastewater sensors maintenance
- Include real time monitoring in policies
- Advance in self and remote sensors capabilities
- ...

Opportunity



Smart sensors: Delivering pervasive benefits

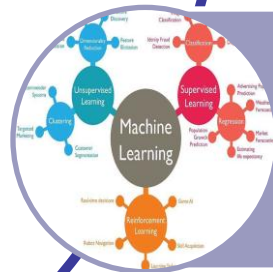
Smart Sensors
Combine IoT and AI
to provide real-time
data and feedback



Predictive: Real-time data can be analyzed to determine when a large piece of machinery or equipment will break down, enabling the failure to be prevented through proactive intervention.

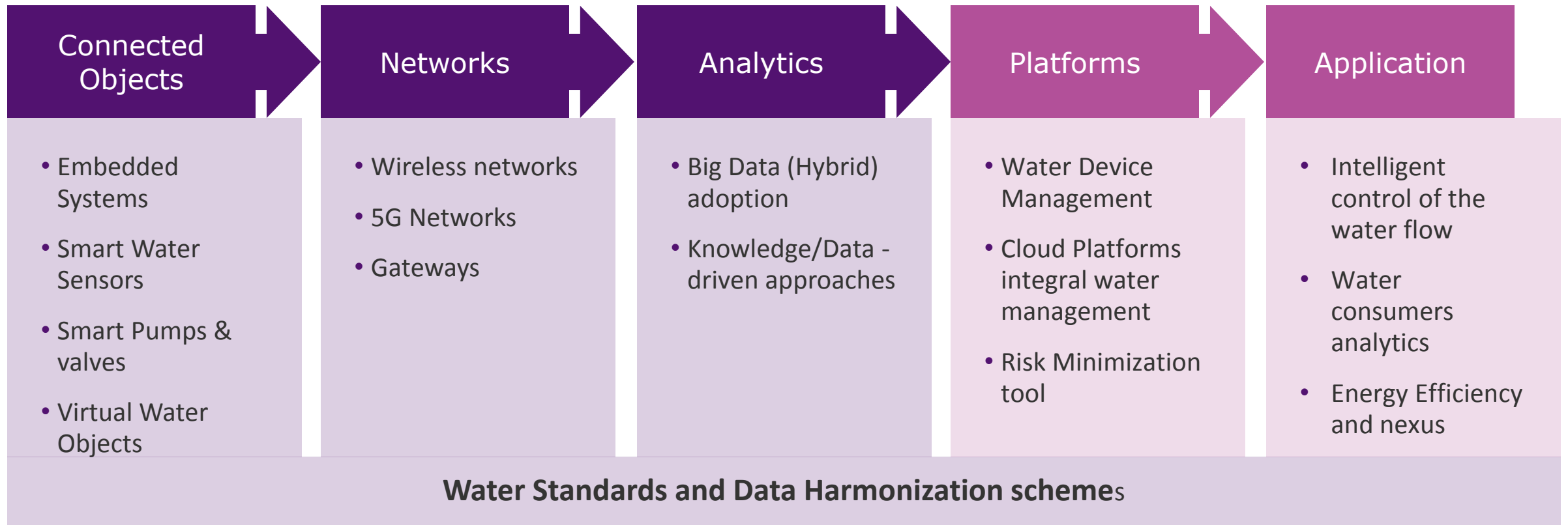


Prescriptive: Intelligent sensors can suggest *immediate* action at the edges of the organization, thus avoiding outages and even disasters.

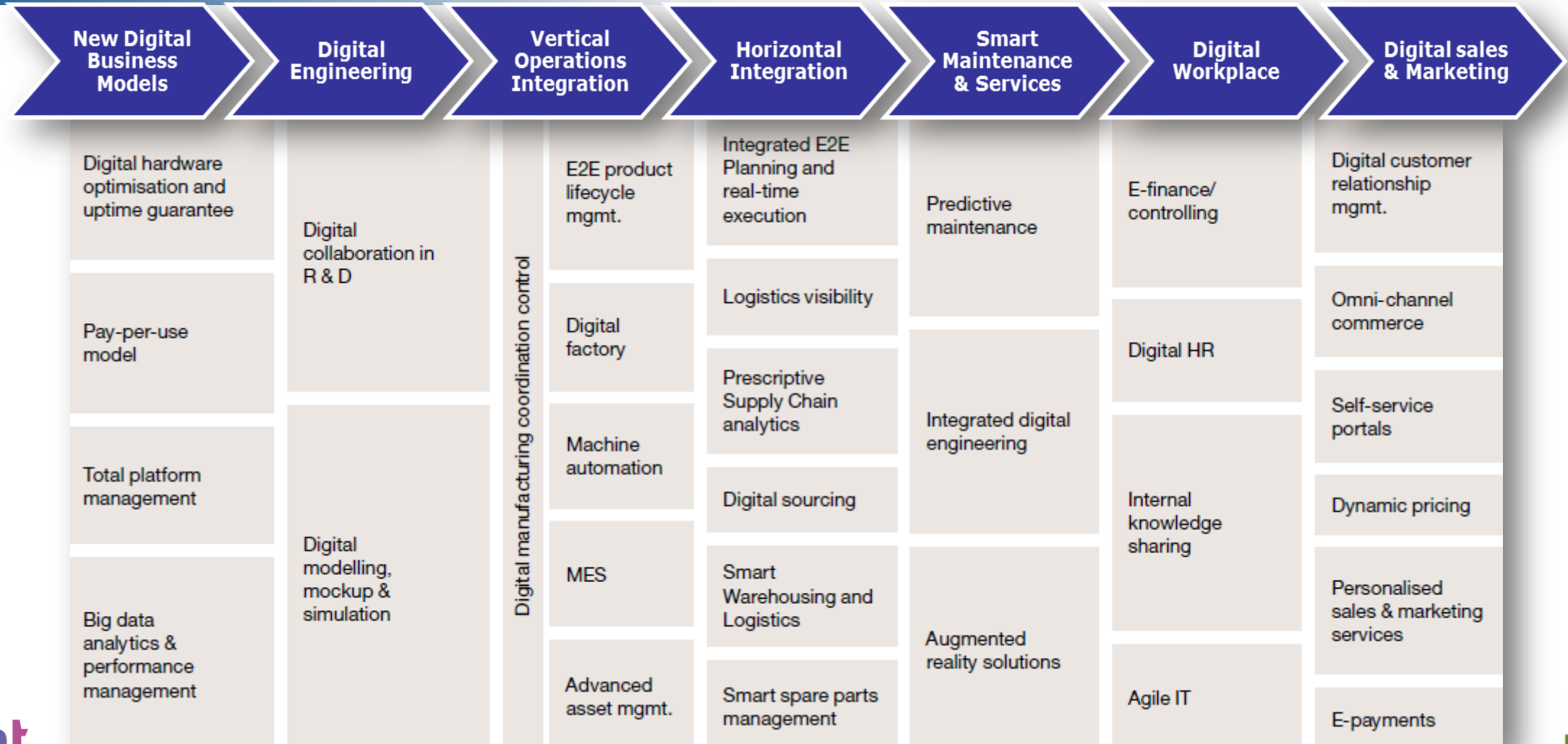


Adaptive/autonomous: Continuous data feeds from sensors can enable systems to learn the right actions to take autonomously.

IoT – Distributed Interoperable Intelligence



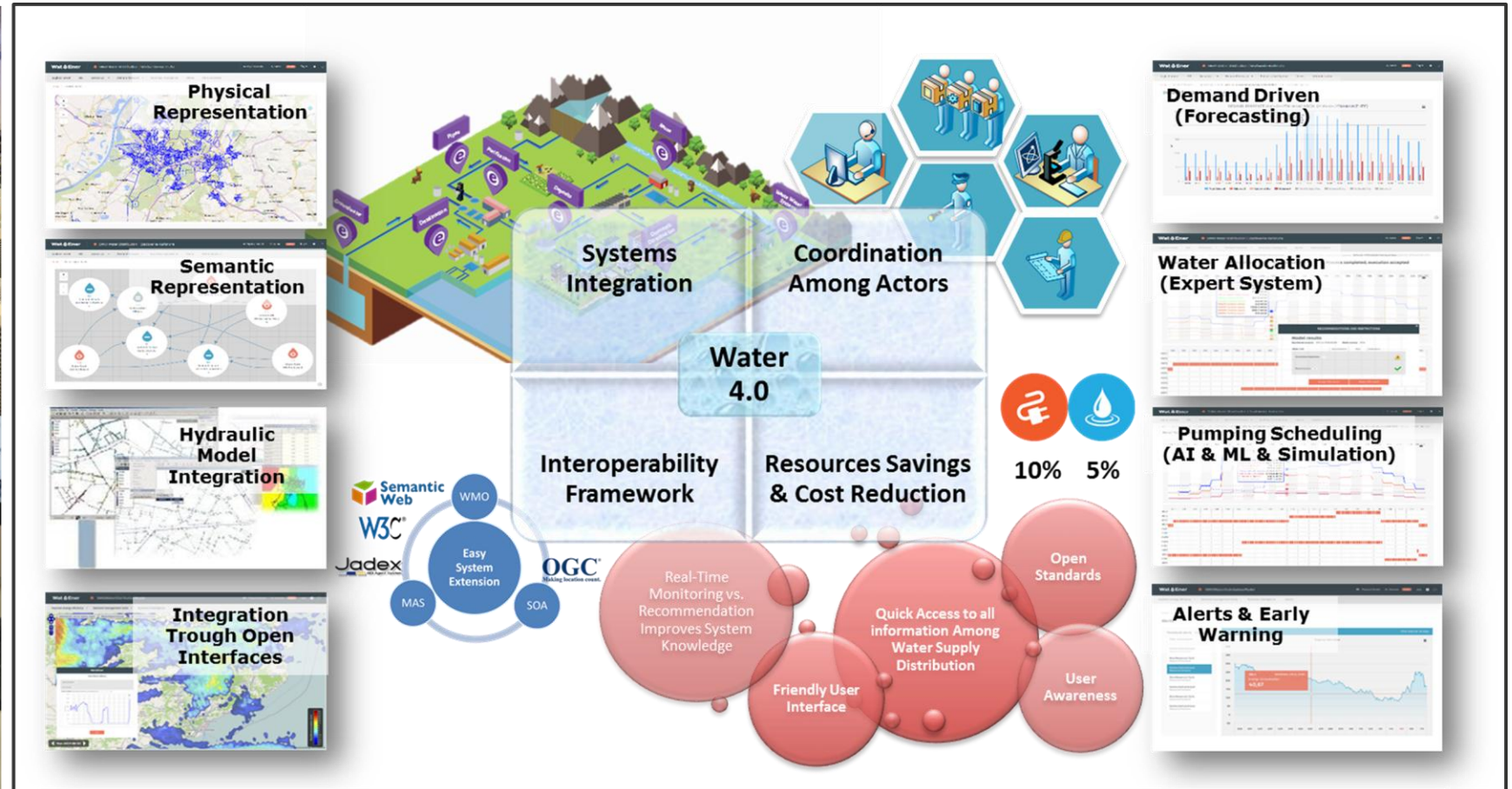
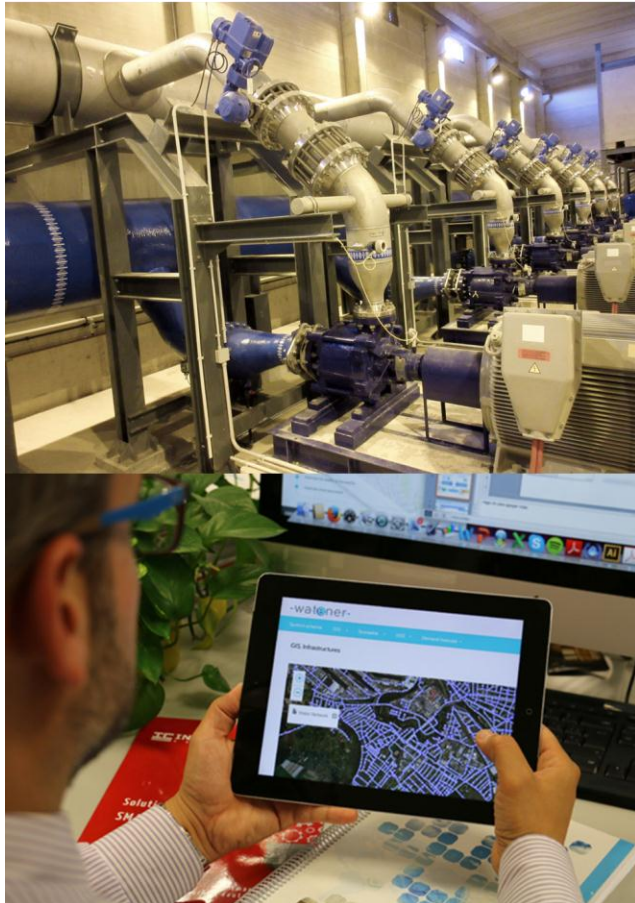
Ecosystem approach





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Ecosystem approach



Prepare for IoT & Digital Water



Enable connectivity



Promote Interoperability

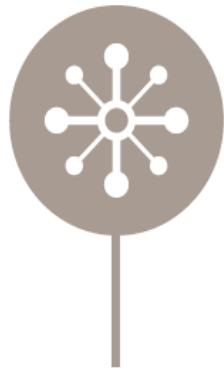


“Smart everything everywhere”



Data privacy and information security

How



**Map your
Digital
Strategy**

1



**Create
Initial Pilot
Projects**

2



**Define the
capabilities
you need**

3



**Become a
virtuoso un
data
analytics**

4



**Transform
into a digital
company**

5



**Actively plan
an
ecosystem
approach**

6

Questions?



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Thank you!



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