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ALLIANCE FOR INTERNET OF THINGS INNOVATION

IoT Week 2017 Geneva

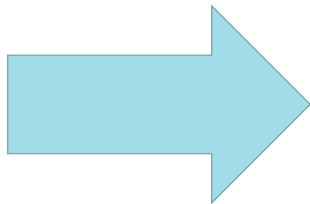
IoT for Clean Water and Sanitation

Jürgen Sturm

Water is a scarce good – why?

IoT Week 2016 in Belgrade: Different dimensions of scarcity:

- ❖ Geographic scarcity – inadequate quantity and quality
- ❖ Political scarcity – inadequate rules and agendas
- ❖ Economic scarcity – inadequate infrastructure
- ❖ Technical scarcity – inadequate maintenance and tools
- ❖ Social scarcity – inadequate information and communication
- ❖ Scientific scarcity – inadequate research on water topics



**Can IoT and „Digital Water“
help to overcome scarcity?**



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The Challenge



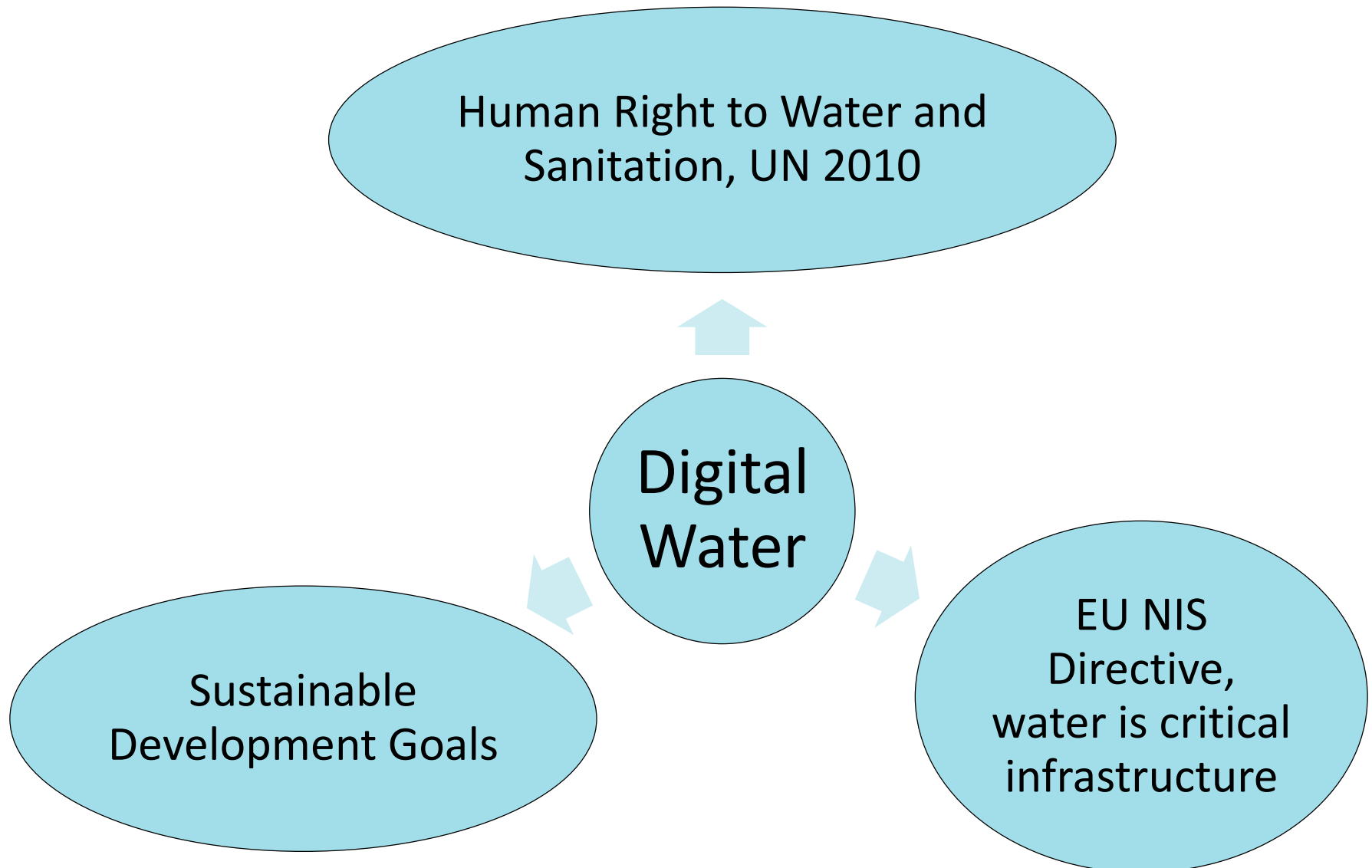
The Vision



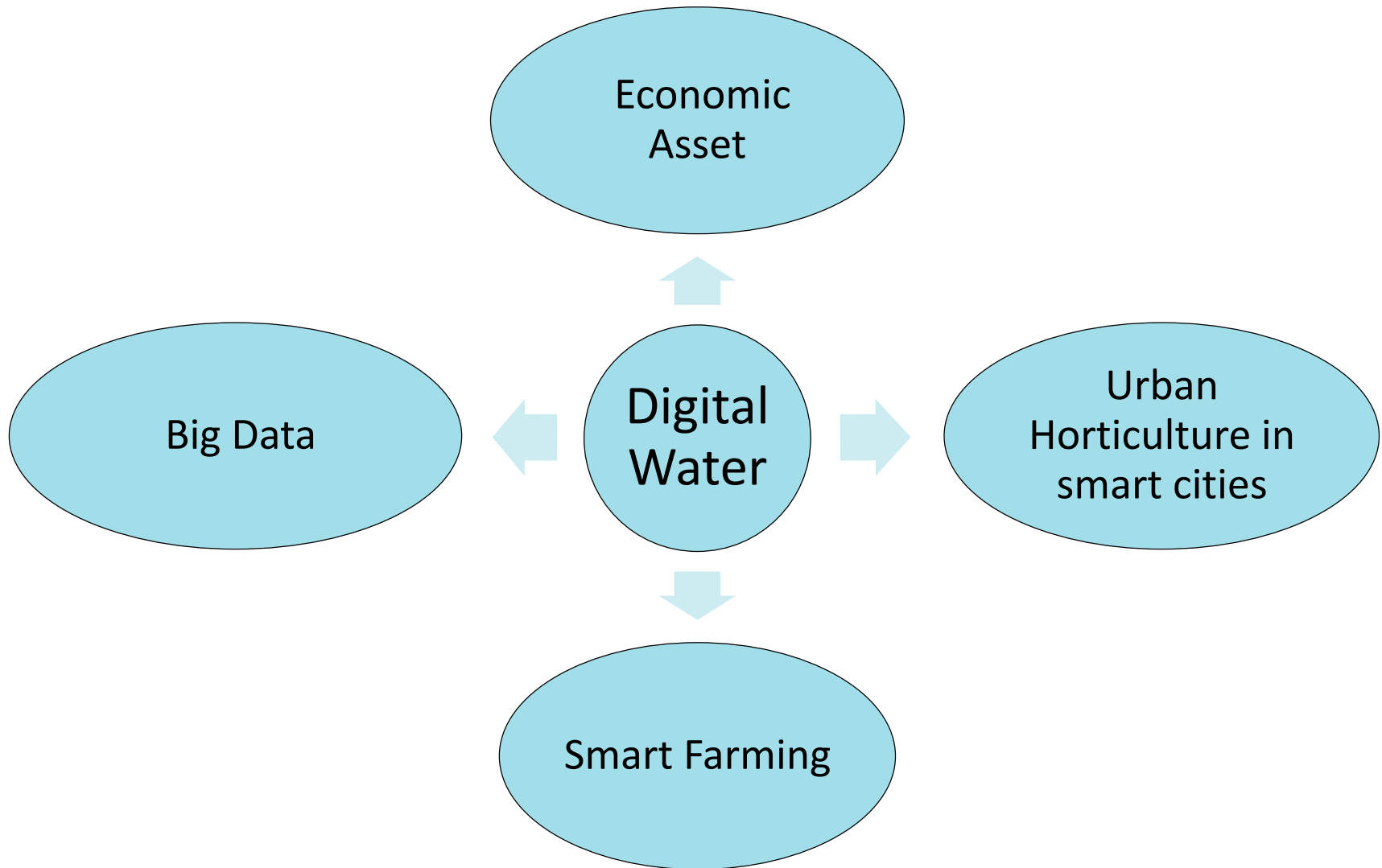
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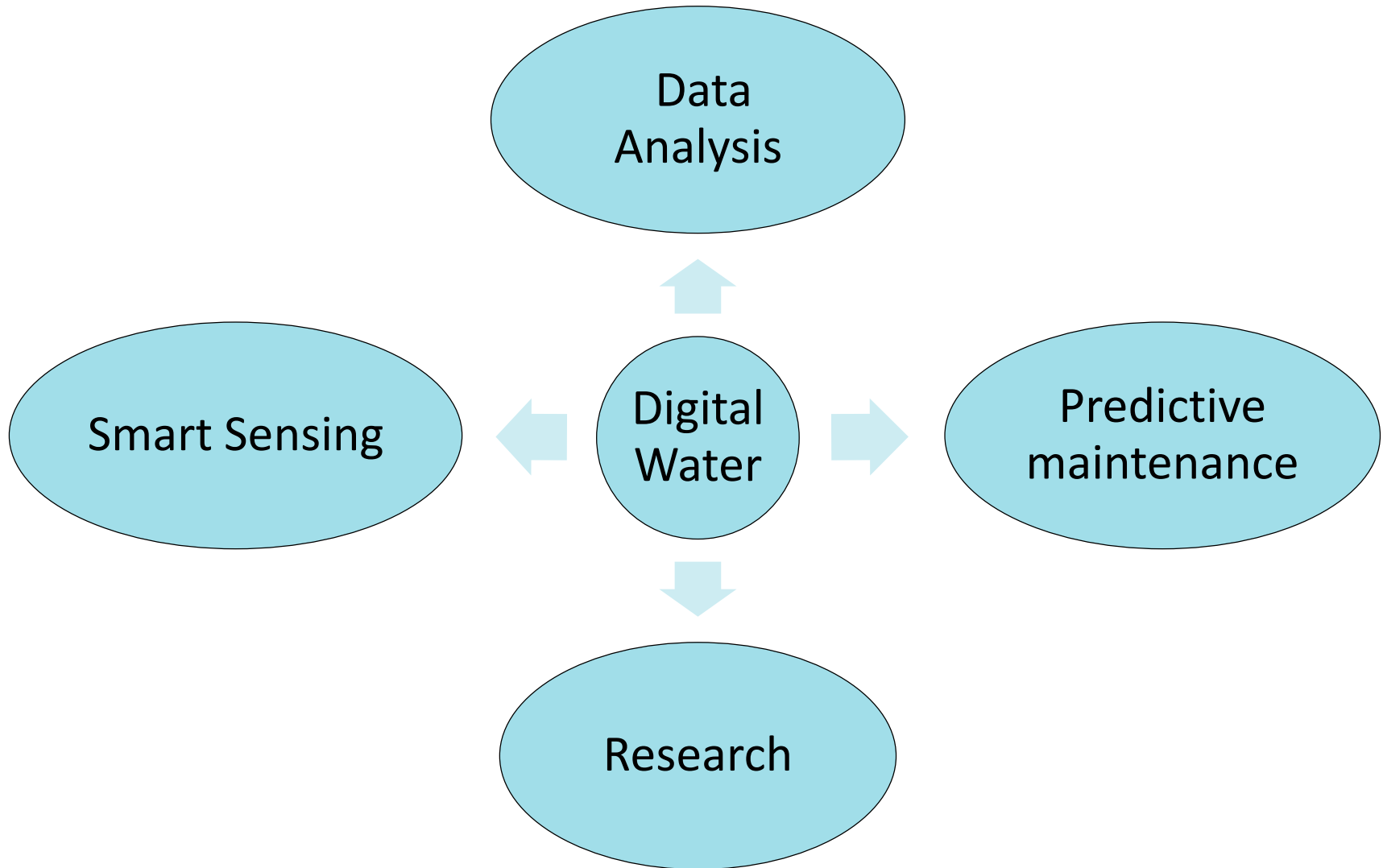
Digital Water – A political perspective



Digital Water – a socio-economic perspective



Digital Water – a technical perspective



Technology Trends

- ❖ Higher demand for smart sensors
- ❖ Specialized sensing applications for chemical, biological and physical parameters
- ❖ Opportunities for „hard sensing“ and „soft sensing“ to detect e.g. leakages and pollution; enables citizens to make full use of their water infrastructure
- ❖ Enable predictive maintenance of infrastructure
- ❖ There are well established and long standing water management systems, the trend is to integrate the new technology and to ensure interoperability

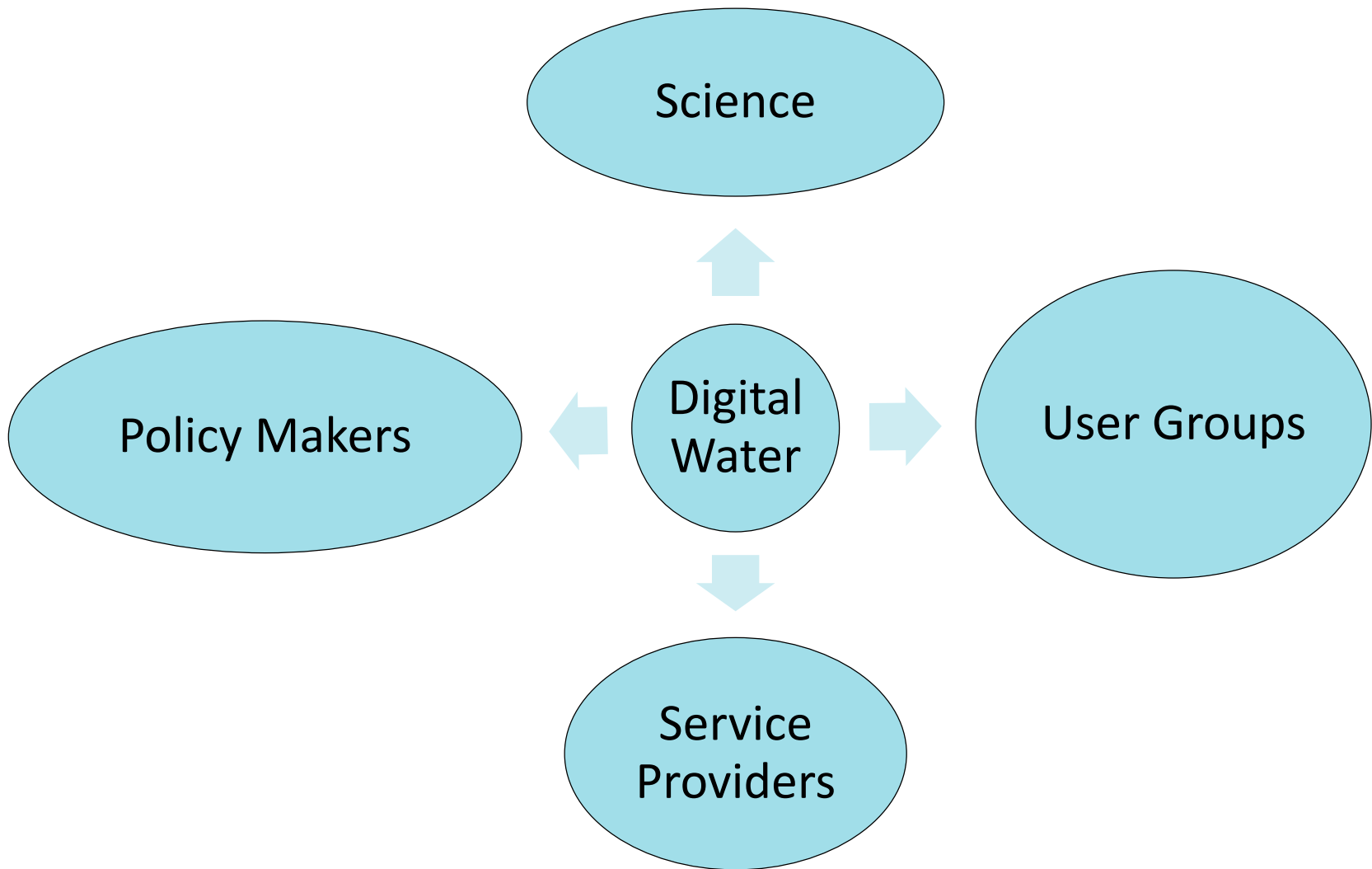


Strategic Issues / Challenges / Opportunities which count globally

- ❖ Enable cross-linking of water to other verticals, understand water as a cross-vertical issue
- ❖ Develop an overview of applicable water-related standards and legislation
- ❖ Link the trends, foster stakeholder communication and share best practices
- ❖ Fully integrate water management into circular economy and avoid „waste water“, foster re-use
- ❖ Demonstrate the concrete added value of IoT applications for the different verticals – integrate the new IoT technology into existing systems



Digital Water – A holistic term



Thank you!

j-sturm@ti.com

www.aioti.eu

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