



ENVIRONMENTAL  
MONITORING  
SOLUTIONS

# ICT STANDARDS & DATA HARMONIZATION

EXAMPLE

- Different protocols drive innovation
- However, industry might be wary
- **ICT architectures**
  - IT security is an obstacle
  - Use cases to demonstrate benefits / risks
- **IoT in Water Management**
  - water industry aren't best utilising their data
  - no knowledge of IoT implementation in real WDN and WSN



## Artificial Intelligence Based Flood Protection



uses best protocols for job: e.g.  
LoRA, Xbee

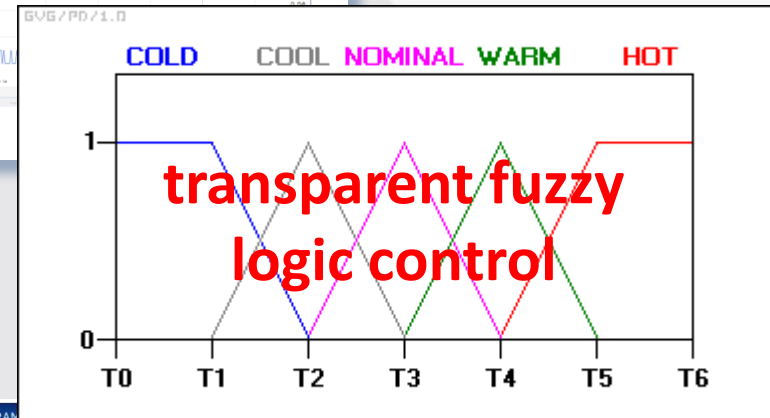
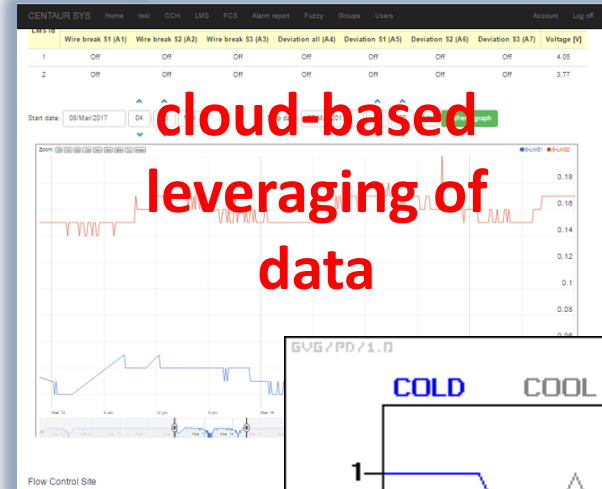


# WATER INFRASTRUCTURE REVOLUTION: WATER 4.0

EXAMPLE



## Artificial Intelligence Based Flood Protection



- SMART Sensors, IoT, Cloud-based Platforms
  - Fixing the DRIP (Data Rich Information Poor)
  - Risk adversity - slow adoption
    - Centralised RTC seen as a giant leap
    - Localised RTC may be more acceptable
  - Transparent systems (glass box) more accepted
- Key Enablers and Big Data
  - Water industry isn't best utilising own data
  - Third party data?
  - IT security

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