„Water management 4.0 – Best practise examples of urban 4.0 approaches“

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Water Vision 2100
”Pure water both in nature and for drinking – now and in the future 2100”

From overall vision for the future to concrete plan of actions.

A forward looking project made in co-operation between Aarhus municipality and Aarhus Water
Sustainable city planning

...new housing areas in the harbour area

...water for sports

...water as part of the city

...water for industry
From vision to real...

Veranlassung: EU Bathing Water Directive
Ziel: Reducing of CSO (combined sewer overflow) swimm area in the harbour open closed river Aarhus
Zurich online – project targets

- More accurate knowledge on water distribution network
- Water Age
- Water source and distribution paths / mixing in network
- Hindcast of possible contamination events
- Forecast of behaviour in various pressure zones
- Alarming for control centre
- Optimization of sensors within the network (base for water quality calculation and supervision)
- Model calibration by measurement campaign
Dashboard as control center
Expert system / Result presentation

Online water quality simulation and water age

Darstellung von Resultaten und Alarmen

Result model calibration
Thanks for you attention!

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Digitization, modelling and visualization of water systems