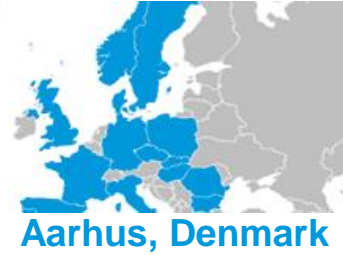


„Water management 4.0 – Best practise examples of urban 4.0 approaches“

Dipl.-Ing. Christian Pohl
Director Business Development D-A-CH

Aarhus Water Vision 2100



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 as part of the city

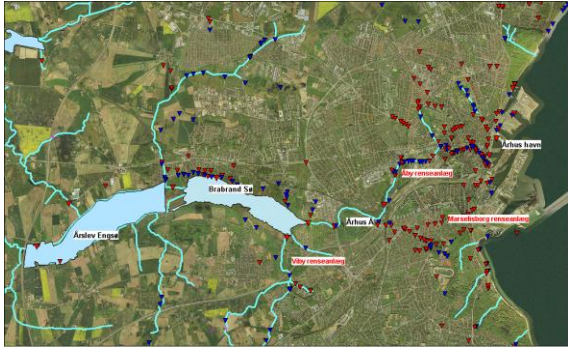


...water for sports



...water for industry

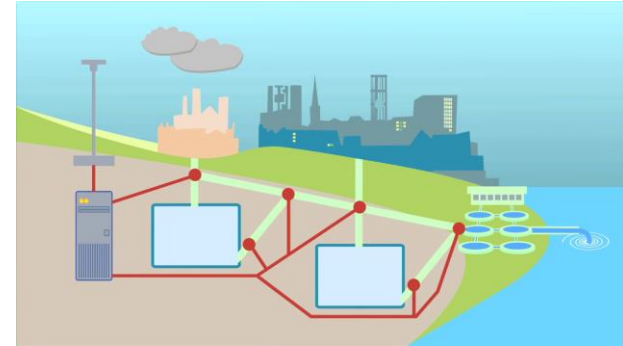
From vision to real...



...analysis and planning
2006-2007



...realization
2007-2012



...control and early warning system
2009-2013

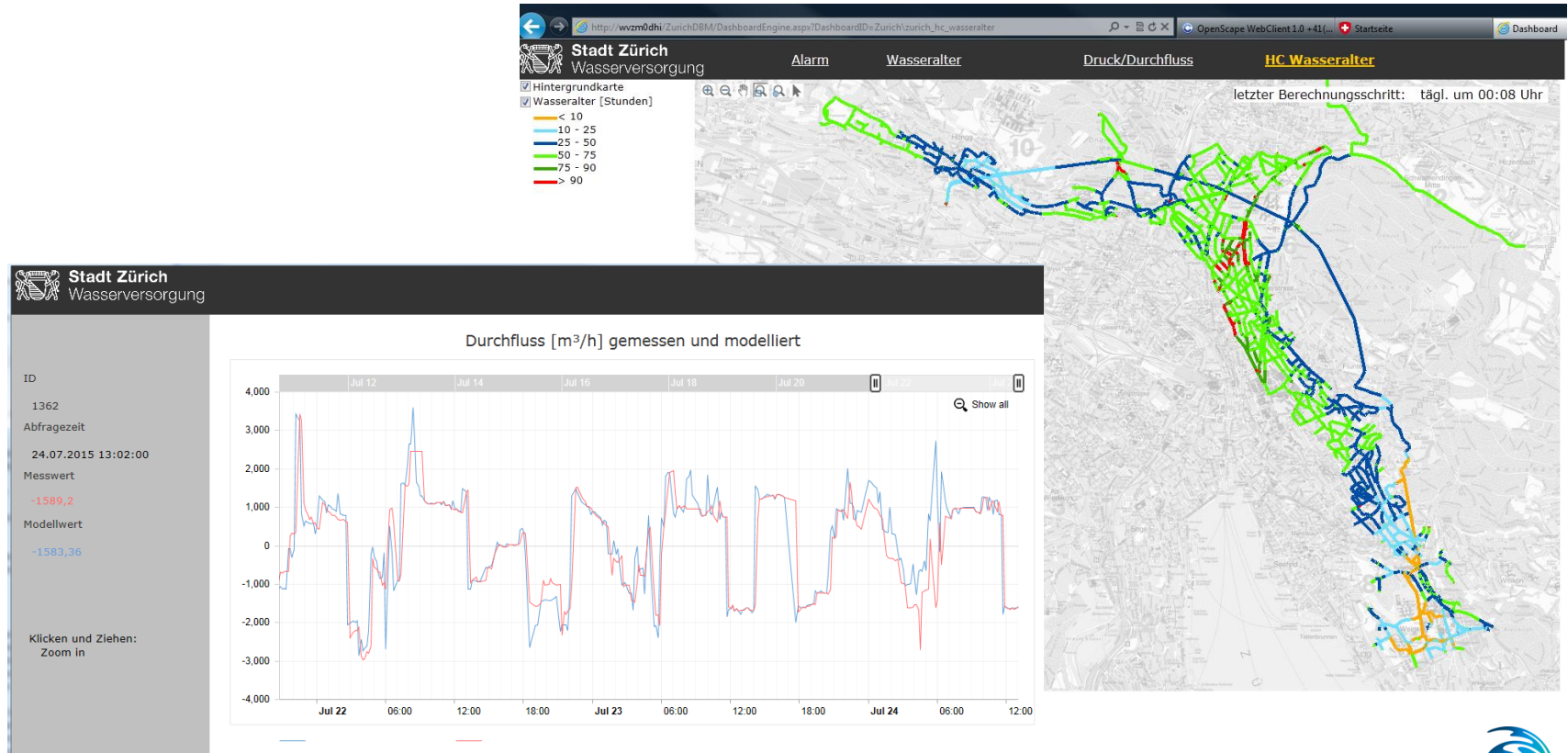
Veranlassung: EU Bathing Water Directive

Ziel: Reducing of CSO (combined sewer overflow)
swimm area in the harbour
open closed river Aarhus

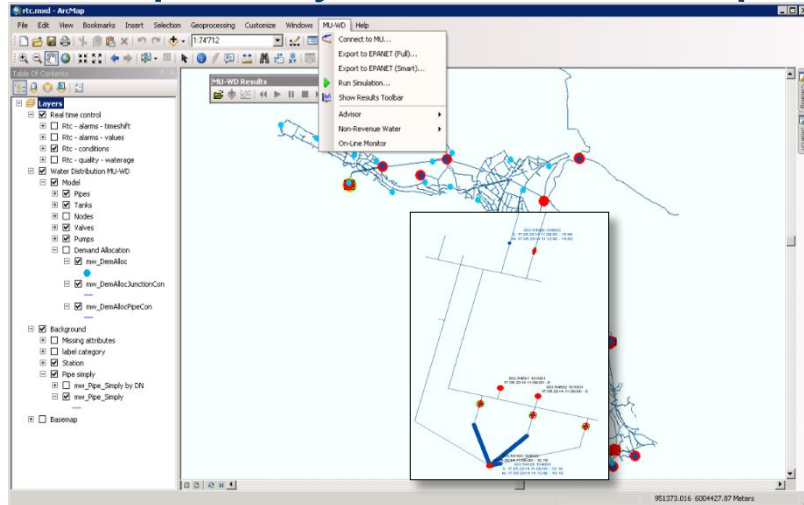
Zurich online – project targets

- 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



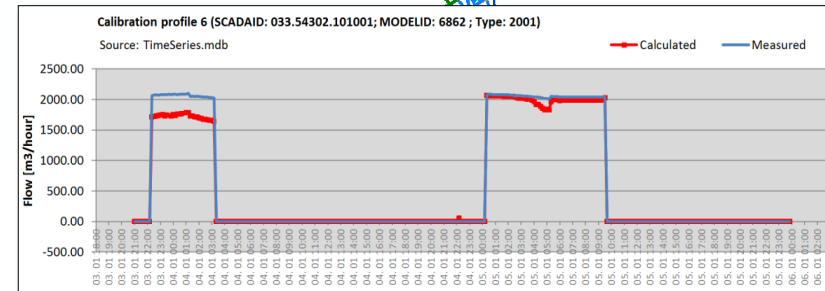
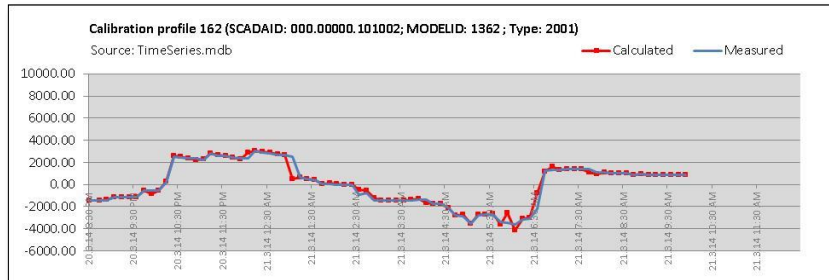
Expert system / Result presentation



Online water quality simulation and water age



Darstellung von Resultaten und Alarmen



Result model calibration



Thanks for your attention!

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Digitization, modelling and visualization of water systems