



# **PREPARED**

## **adaptive solutions for water utilities**

Closing session



## A utility-driven project

- Challenges prioritized by the cities
- Tools / solutions developed in collaboration with the utilities / cities
- Demonstration of the tools / solutions in the cities

## Challenges

- Adaptation to water resource scarcity/quality changes
- Adaptation to extreme rainfall events
- Integrated approaches to adaptation – Enabling change

## SUCCESS STORIES:

- Close cooperation between research, operation & authority,
- Demonstrated tools handed over to end-user for further use / development

## Demonstrated tools

- Models as planning tools or for real-time control
  - Sewer networks / receiving waters
  - Water supply
- Sensors / methodologies for system assessment / RTC
- Water Cycle Safety Plan
- Adaptive Planning Process
- .....



# Questions



- Were the challenges defined in the beginning the ones we are still facing today? What has changed?
- Did the developed tools meet the needs? What is still to be done?
- Was the demonstration of the tools in real life successful?
- What have we learned...
  - In terms of science and technology?
  - In terms of practical implications?
  - In terms of collaboration between research & practice?
- How can we make use of the developments in the future?



- Collaboration is important
  - Involve city planners
  - Different approaches for CCA:
    - Top-down: adaptation report Wales
    - Bottom-up: city trying to become more “live-able” than others → possibility share costs
  - Researchers need to be aware about operational constraints,
  - Operators need to feed-back their experience to the researchers
  - In companies it is difficult to discuss conflicting views (hierarchy)
  - Important: structured approach, clear outcome
  - Sensitive urban design – small scale solutions worthwhile considering

- Perspectives for future collaboration for the PREPARED Alliance Forum:
  - Bilateral interactions
  - Future Alliance Forum meetings:
    - E.g. at IWA or other technical conferences:
      - Contact [raul.glotzbach@iwahq.org](mailto:raul.glotzbach@iwahq.org)



# Good bye!



PREPARED is a Collaborative Project funded by the European Commission under the seventh Framework Programme; contract no. 244232

Aarhus, 21 – 23 , January 2014