



# EurAqua Conference

## How can climate change be incorporated in river basin management plans under WFD?

Oslo

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# EurAqua Vision:

- ✓ EurAqua is the leading network for facilitating improved and coordinated water research, in support of knowledge-based water management and policy
- ✓ Conference to perform a platform for communication with regard to research needs and policy linkages

# Climate change and WFD

## Status and uncertainties

- ✓ WFD designed for a world without climate change
  - At what level will climate change enter the WFD procedures?
- ✓ Climate change impact on
  - Direct physical
  - Baseline and reference conditions
  - Secondary effects (leaching N, fish, imigrants, fjords)
  - Merging issues
- ✓ Precaution principle onboard, regarding hydrology?
  - Quantify uncertainty to be able to reduce it
- ✓ Lack of instruments for policy related research
- ✓ Conflicting remediation/actions
  - downscaling

# Modeling tools and technology uncertainties and future challenges

- ✓ Overwhelming research regarding effects of climate change on ecosystems
- ✓ Uncertainty to be communicated
  - How to get down to river basin managers?
  - Testing of available plans
- ✓ CC dynamic reference has to be dynamic
- ✓ Effect chains many steps many surprises
- ✓ Decision systems still to be developed
- ✓ New focus old topics:
  - eutrophication, hydrology reference sites long term records

# Adaption to climate change

- ✓ Water scarcity and droughts
- ✓ Sea level rise
- ✓ Long term and/or European models
  - Downscaling a challenge
- ✓ Systems for collecting info/knowledge/floods/Wise-RTD
- ✓ Adaptation plans, political 1.step
  - Intention to follow up white paper
  - Before knowing what to adapt!
- ✓ Strong need for further co-production of knowledge



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