

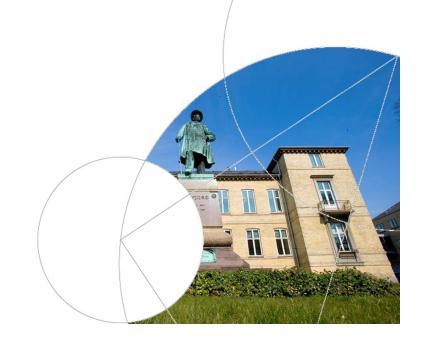
## PhD-Project:

Costs and Benefits of improved Water Quality

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# Cost benefits of N measures to improve surface water quality – (Research Component 4.2)

- What is the optimal water quality in a given catchment from a CBA viewpoint?
- How to proceed to cover the whole country, where local benefit analysis are not possible?
- How much can the costs of implementation be reduced if site specific N-reduction can be obtained?



## Primary valuation study at Limfjorden and benefit transfer

#### Background

Disproportionate costs might be present at Limfjorden. Primary valuation is too costly to execute in all water catchments.

#### Objectives

- Obtain site specific benefit estimates from Limfjorden to be used in evaluation of disproportionate costs
- Improve the foundation of applied benefit transfer between Danish water catchments



## Water Pricing

#### Background

According to article 9 in the WFD environmental and resource costs should be included in the water pricing policies

#### Objectives

- Estimate the resource costs of water usage
   The costs of depleting the water resource beyond the natural rate of recovery
- Estimate the environmental costs of water usage
   The costs of damage that water usage imposes on the environment



## Spatial targeted regulation

### Background

Regulation of N has so far been independent on the retention of the soil and the vulnerability of the water bodies in the specific area.

### Objective

- To obtain more cost-efficient regulation by using site specific information in regulation
- Evaluate policy instruments in relation to site specific regulation



## Focus right now...

- Improving skills in econometrics
- Teaching: 'Environmental Economics for Non-economists'
- Preparing the valuation study of Limfjorden
  - Internet based questionnaire
  - Willingness to pay
  - Preferences for improved water quality
  - ...
  - Input highly appreciated!!!



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