

# A Competent Authority perspective: Pragmatic ES approaches when dealing with 28 000 water bodies

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# From definitions to valuations

- Debating definition for more than 10 years (environmental/resource cost and ES)
- Whatever we call the benefits, we still need to estimate them!

# Valuation of ESS is not the goal...

- Exemptions due to disproportionate costs
- Selection of measures
- Selection of policy instrument
- Policy design (i.e. PES)
- Impact assessment and distribution of costs (and benefits)

It's merely the beginning...



# Every country has its own WFD

- WFD is a strategic plan, focusing on national policy.
- WFD is a stakeholder-involved process focusing on local solutions.
- WFD is a law-driven process and implementation is done in courtrooms.

**WFD is a chameleon that changes appearance on the border of every water district.**



# What priority should ESS have?

- Select parameters for status classification that represent the water quality of all types of waters.
- Determine status in all water bodies, for all parameters.

**And then you put ESS on top of it**

- Select and quantify measures in all water bodies for all environmental policy.
- Select the appropriate policy instrument and the design for it.

This is done for all lakes, rivers, coastal waters, groundwater.



# The way forward is the researcher's nightmare...

- Fixed values supported by local variables
- Primary studies in a serie of typical water bodies and benefit transfers.
- Multi-criteria analysis
- Practical CBA screening methods, combined with primary studies.

# Aqua Money to Sweden

Consultant: Enveco

- Mean benefit transfer from Aqua Money sites Odense and Morsa.
- Estimations on river basins, not water bodies
- BT has +/- 25-40 percent accuracy (Hakansson 2013)



Start

Karta

Uttag

Insättning

Om VISS

- A library with more than 200 standardized types of measures
- Standardized costs and effects (not ES) per unit of measure (for app. 100 measure types)
- The library interacts with the "real" measures suggested in specific water bodies.
- The standardized costs and effects are calculated for the estimated size of each "real" measure.
- Possibility to change the standardized estimations if better estimations are available.

**200 000 "real" measures in VISS-database**





# Shortcomings and Challenges

- From definitions to valuations.
- An ESS-value of good status in each water body – 25000 wb in Sweden.
- Primary studies is not possible when dealing with 25 000 water bodies. Fixed values dependent on local parameters, value transfers, MCA, CBA screening methods etc.)
- Funding for bridging the gap between research and management.

# Together we safeguard the value of water!

