



Integrated Protection of Surface and Groundwater in Agricultural Regions

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Options for co-operation between the
competent authorities, advisors, sciences and
stakeholders

Lots of EXPERIENCES



How can we achieve good status with success for society and farmers?

- The farmers need to understand the issue and the problems
- Draw up the situation
- Involve the farmers from day 1 and through the whole process
- Use a holistic process where production, water, (nature, air and soil) are dealt with at the same time
- Only one way ahead - co-operation



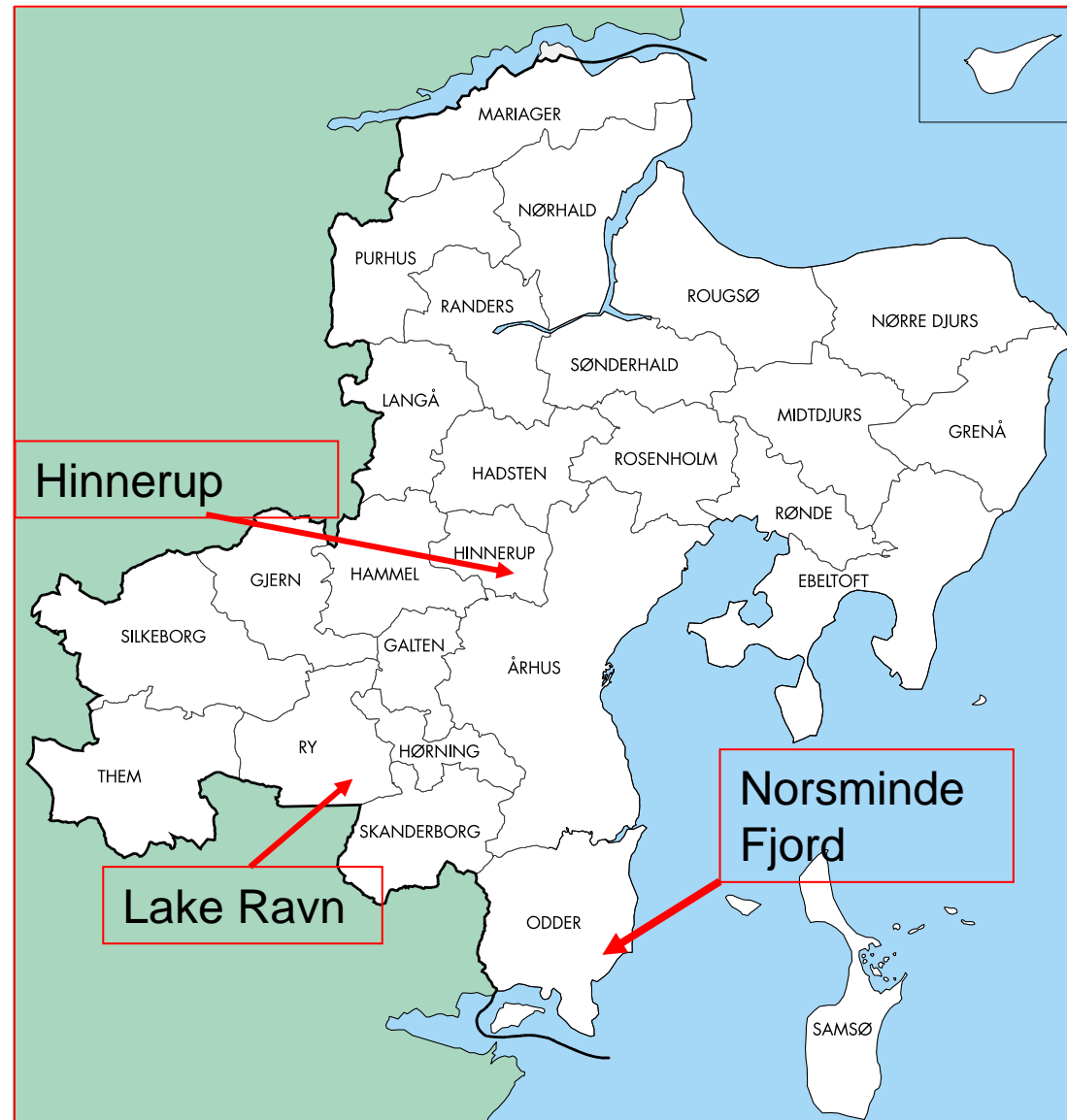
Co-operation - authorities and agriculture

- Case:
3 Pilot areas in AGWAPLAN and 2 in Ringkøbing Project

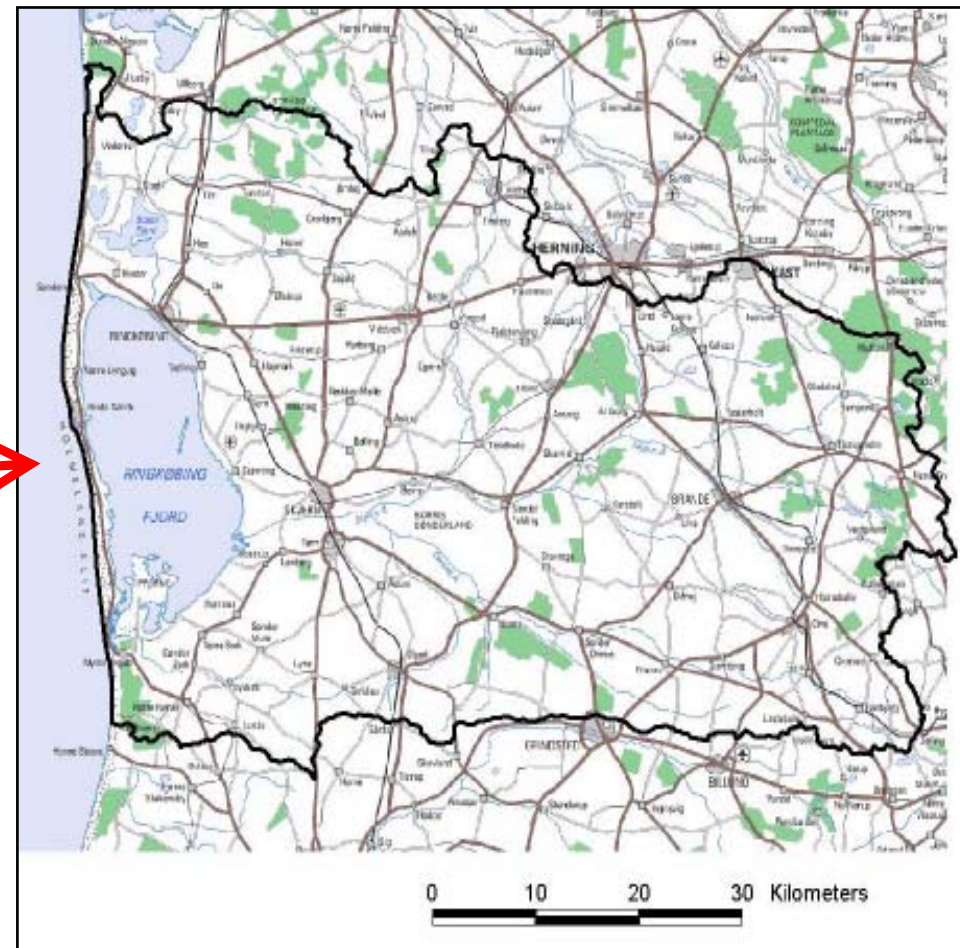
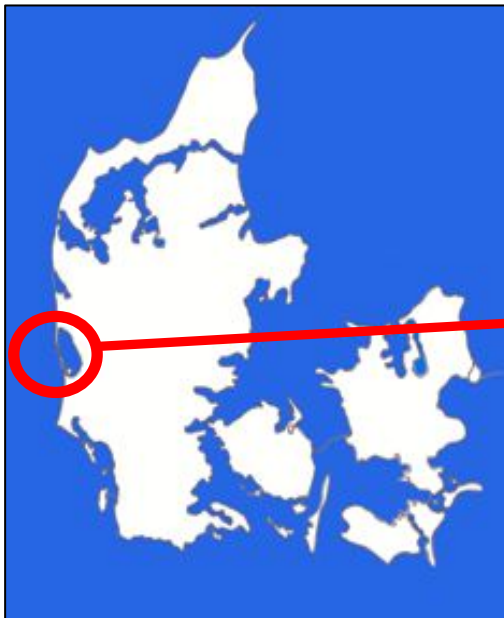
- Challenge:
Additional reduction in Nitrogen and Phosphorus loads



Three pilot areas in AGWAPLAN



Ringkjøbing Fjord





Example of work in Project

■ Background

- Catchment analysis in Norsminde: A need for approx. 50 % reduction in N-load in order to achieve environmental objectives
- Action Plan: Plans for farms and for catchment worked out in close cooperation: Recommendation of initiatives and tools

Project Group

- Local farmers, Danish Agricultural Advisory Service locally and at National Centre, Danish Institute of Agricultural Sciences & Aarhus County
- Danish Environmental Protection Agency co-financer, and..



Tools & Instruments

- Catalogue of measures developed in co-operation between agriculture and authorities
- Specific regulation in stead of general
- Examples
 - Reduction of Nitrogen load in specific areas
 - Change in crops - catching crops
 - Non-cultivated zones
 - Wetlands
 - Technology



Balance between production & environment

- Key aspects:
 - Situation of the farmer
 - Optimal balance





Integrated Consulting Concept

- Environmental management plans
 - Plans for single farms
 - Includes data on farm level
 - builds on individual plans for production and development
- Catchment Area Plans
 - Sets up general environmental objectives and measures for the catchment area
- Combination of scopes for production and environment
 - Creates a common consensus and commitment between farmer and authorities to help implement the necessary measures



Process part I

- Workshop for agro-consultants
 - Education in principles for different types of Good Agricultural Practices (GAP)
 - Discussion on how to optimize the dialog process
 - Special attention on the individual farmer: *local commitment*
- Farmer consultation - environmental Management Plans
 - Participants: consultant, municipal specialist, farmer
 - Draft plan is written during the meeting, including examples of measures and consequences
 - Final plan is made by consultant and commented by farmer and municipal specialist



Proces part II

■ Catchment Area Plans

- Environmental Management Plans are integrated
- Implementation of measures introduced where most cost-effective
- Calculation of economical consequences
- Environmental protection measures are subsequently situated in areas/processes with the least impact on production



Outcome & benefits

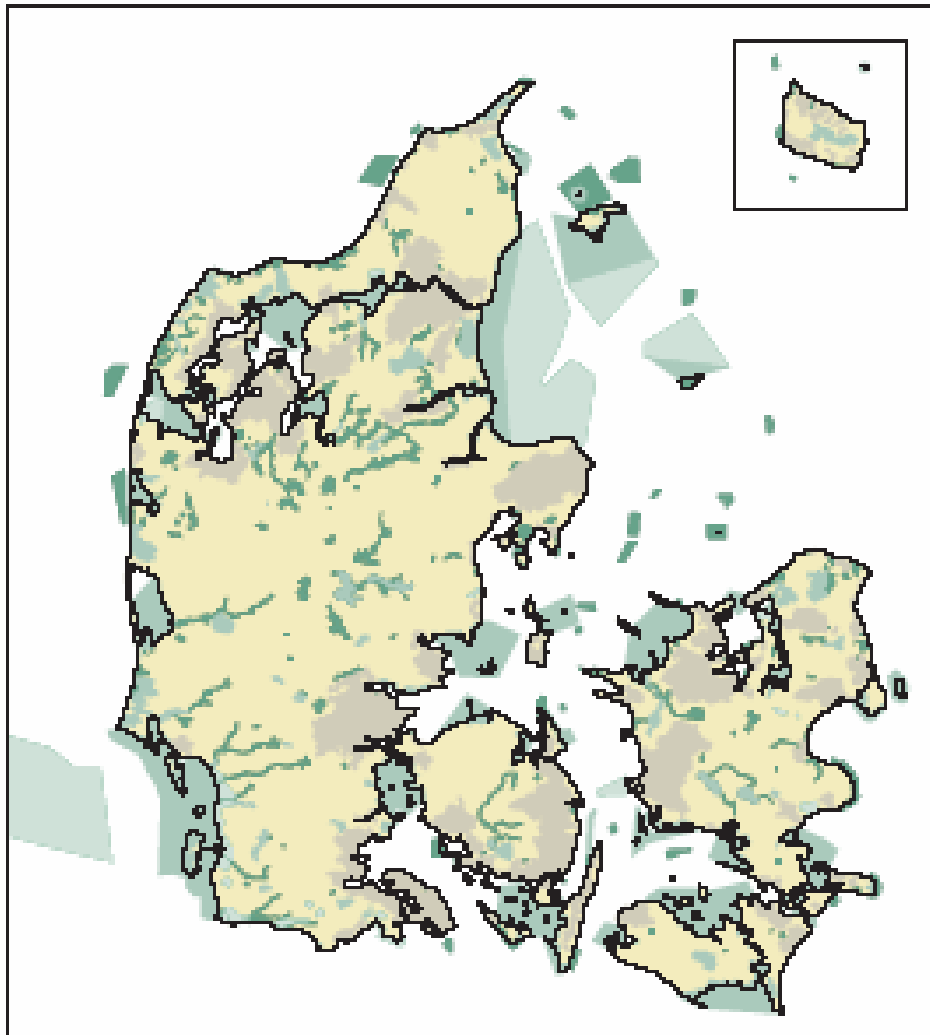
Experience from the AGWAPLAN project can be included in future process of environmental action plans

- Securing or improving environmental conditions
- Cost-effective implementation of measures
- Reduce the impact on overall agricultural production
- High degree of dialog between all participants
- Personal interest and commitment by involved farmers
- Public awareness and acknowledgement of efforts made by farmers



The challenge

- The WFD and Natura 2000 will cover lots of land
- It is not just another valley but presumably all land



- Habitatområden
- Habitat- och fågelskyddsområden
- Fågelskyddsområden
- Områden där artstämmer till Natura 2000
- Andra utställningsområden



Make it strategic,
- where the goals for the farmers and the environment
are integrated!





Project period

- Starting date: 01/11/2005
- Ending date: 01/03/2009
- Duration: 40 months



Financing

- 2.004.416 Euro
- 50 pct. contribution from LIFE-environment



We want cooperation on

- Experiences on calculations of tolerance limits of N and P
- Bottom up processes in practice (from farms to authorities)
- The use of GAP's
- Implementation of WFD



More information

www.agwaplan.dk