EU SBSR PA1 FP1.4

Progress report with emphasis upon demonstration farm network

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Executive Secretary to the Steering Board

Baltic Deal

EUSBSR
EU STRATEGY
FOR THE BALTIC
SEA REGION

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FARMS

Demonstration farms

MEASURES

Good agricultural practises

NEWS

2012-04-13

Agricultural scenarios

Welcome to a "marine ecologists meet agronomists"-seminar, a unique opportunity for knowledge exchange between the two professions. Our hope is that this will benefit future

CALENDAR

22 May — Green week, Brussels

13 Jun — Folkemødet, Bornholm

Annual forum of the

Start | Webbsidan kan inte visa... | Baltic Deal - Mozilla Fi... | 10:53

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Demonstration farms and agri-environmental investments

- Demonstration farm structure and geographical distribution
- Measures and practices being demonstrated on the farms
- Investment-related measures; existing, feasible and under consideration and planned
- Prospect

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Demonstration farm structure

Production system: / **Country:**	**Mainly crop production**	**Mainly animal production**	**Mixed, other**	**Total number**
Estonia	3	5	0	**8**
Latvia	3	6	1	**10**
Lithuania	0	11	1	**12**
Poland	12	30	6	**48**
Denmark	2	7	1	**10**
Sweden	8	10	2	**20**
Finland	6	4	0	**10**
Total:	**34**	**73**	**11**	**118**

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Demonstration farm network Baltic Deal
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Clear connection to HELCOM BSAP;

Annex with ”list of examples of measures for reducing phosphorus and nitrogen losses from agriculture”

Appendix 3: BSAP measures addressed by the project

Measures addressed by the proposed project, of the total list of "examples of measures for reducing phosphorus and nitrogen losses from agriculture", p. 86-95. HELCOM Baltic Sea Action Plan.

#	Measure	Addressed in project?
1.	Converting arable land to extensive grassland	No
2.	Soil management	Yes
2.1	Plant cover in winter	Yes
2.2	Minimal cultivation systems	Yes
2.3	Cultivate land for crop establishment in spring rather than autumn	Yes
2.4	Catch crops	Yes
2.5	Ploughing of ley on sandy soils in autumn	Yes
2.6	Controlled sub-surface drainage	Yes
3.	Fertiliser and manure management	Yes
3.1	Nutrient balances	Yes
3.2	Conversion from conventional to organic production	No
3.3	Reduced fertilisation	Yes
3.4	Application techniques of manure	Yes
3.5	Integration of fertiliser and manure nutrient supply	Yes
3.6	Liming	Yes
3.7	Avoiding the application of fertilisers and manure to high-risk areas	Yes
3.8	Avoiding the spreading of fertilisers and manure during high-risk periods	Yes
3.9	Increasing the capacity of manure storage	Yes
3.10	Transporting manure to neighbouring farms	Yes
3.11	Slurry separation	Yes
3.12	Composting solid manure	Yes
3.13	Biogas production	Yes
3.14	Pelletisation	No
3.15	Incineration	No
4.	Animal feeding	Yes
4.1	Adopting phase feeding of livestock	Yes
4.2	Reducing dietary nitrogen and phosphorus intakes	Yes
4.3	Phytase supplementation	Yes
4.4	Wet feed and fermentation	Yes
5.	Farm infrastructure	Yes
5.1	Establishment of wetlands	Yes
5.2	Buffer zones	Yes
6.	Other	Yes
6.1	Effective purification of runoff waters	No
6.2	Systematic on-farm individual advice	Yes

Measures and practices being demonstrated on the farms

Estimated value/cost of investments done at demo farms; 10,2 mill EUR

	Farm management	Farm infrastructure	Rotation and land use	Soil management	Fertiliser and manure use	Manure management before	Animal feeding	Water management	
Measure/investment 1	6	26	10	**9**	5	**43**	4	**7**	
Measure/investment 2	41	na	15	5	**21**	**3**	3	0	
Measure/investment 3	1	na	37	**6**	10	0	na	**7**	
Measure/investment 4	13	na	1	na	1	**4**	na	**1**	
Measure/investment 5	na	na	**2**	na	3	1	na	**2**	
Measure/investment 6	na	na	18	na	2	5	na	**2**	
Measure/investment 7	na	na	na	na	0	**1**	na	**2**	
Measure/investment 8	na	na	na	na	0	**1**	na	na	
Measure/investment 9	na	na	na	na	**4**	**1**	na	na	
Total number measures/ investments	61	26	83	20	46	59	7	21	323
…of which number of investments	0	0	**2**	**15**	**25**	**53**	0	**21**	**116**

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Feasible investments under consideration

Main group	Investments	Number	Item cost	Total cost
			1000 €	1000 €
3 Rotation	Willow and bio-energy perennial plant production	0	10	0
4 Soil	Minimal cultivation systems	2	100	200
	CTF, heavy transports and soil structure	7	220	1540
5 Fertiliser	Application technique of manure and fertliser	11	110	1210
	Precision farming and N-sensor. Harvest and soil mapping	6	40	240
6 Manure	Manure storage facilities and capacity	1	80	80
	Slurry store roof or cover	3	30	90
	Slurry cooling	1	40	40
	Composting solid manure	5	30	150
	Slurry separation	2	80	160
	Biogas production	6	900	5400
8 Water	Establishment of wetlands	6	50	300
	Effective purification of run-off water (also household)	0	20	0
	Controlled sub-surface drainage	0	30	0
	Phosphorus dams and traps	2	30	60
	Drainage water dams and recycling of water	3	50	150
	Tree and bush belts along water	0	10	0
		55		**9 620**

Demonstration farms in which investment plans will be prepared

Country	Farm	Investment plan	Approx cost (EUR)
Sweden	1	N-sensor	40 000
	2	Biogas plant	900 000
Estonia	3	Biogas plant	900 000
Denmark	4	Precision-farming IT integration	50 000
Lithuania	5	N-sensor	40 000
Poland	6	Spraying machine	100 000
	7	Slurry injection cart	50 000
	8	Biogas plant	900 000
	9	Waste water treatment plant	15 000
	10	Biogas plant	900 000
Latvia	11	Manure pad	20 000
	12	Manure separation	40 000
	13	N-sensor	40 000
	14	Wetland	50 000
Finland	15	Composting infrastructure	250 000
	16	N-sensor	40 000
		TOTAL ESTIMATED INVESTMENT COST	4 335 000


MASSEY FERGUSON
6290

25/4 2012 Stockholm, Sweden
A "Marine ecologists meet agronomists"- seminar:

Agricultural development & scenarios - The Baltic Sea Region 2020 - 2050 - 2100

Organised by:
The Swedish Board of Agriculture and the Federation of Swedish Farmers
within the projects Baltic Compass and Baltic Deal
in co-operation with
Baltic Nest Institute and Swedish Meteorological and Hydrological Institute

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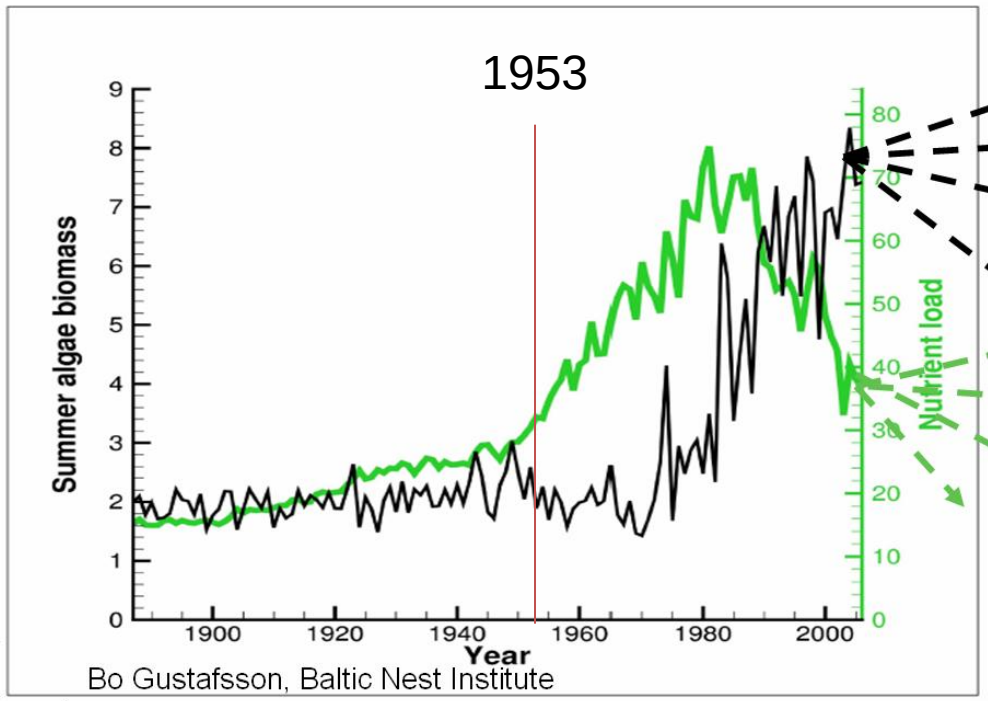
But will also address the present….

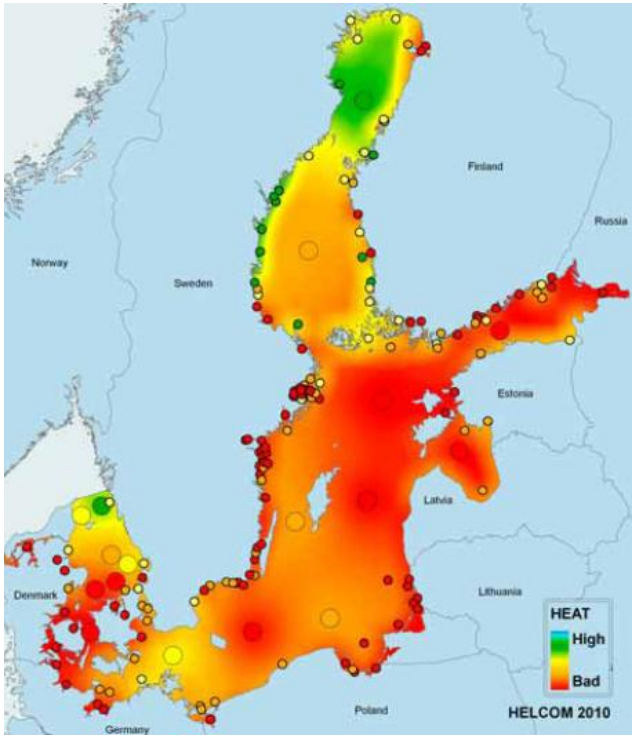
Slurry injection. Photo: Thorkild Søndergaard Birkmose

And the past….

Viktor Karus. 1953. Grain to the state

And how will this influence the load of nutrients to and the Baltic Sea itself?





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Some key concepts of the day

Eutrophication

Drivers

Rural & economic development

Input resources

Nutrient losses

Intensification

Specialisation

Nitrogen & Phosphorus

Rationalisation

Sustainability

Measures

Dietary preferences

Agriculture practices

Global markets

Profitability

Investments

Technological development

Nutrient efficiency

Instruments

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Organisers' aspiration of the day

- "Our aspiration is that the seminar will lead to new insights and research issues and thus benefit future modelling and scenario work, as well as policies."
- "Marine ecologists meet agronomists"
    - Science track: BONUS program
    - ↓
    - Policy tracks: HELCOM (BSAP), EU (Common agricultural policy, Marine and water environmental policies, Regional policy incl EU SBSR)

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Seminar ”lay-out”

- Informal
- Presentations with ”space”
- Dialogue
- Discussions
- Moderator-led
- Round tables

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Agenda.

Moderator Gunnar Karltorp, Swedish Envinmental Protection Agency

09.30 – 10.00	**Registration, sandwich and coffee**
10:00 – 10.20	**Welcome and brief tour de table** *Sindre Langaas, Federation of Swedish Farmers*
10:20 – 11.00	**Development trends and scenarios of the eutrophication of the Baltic Sea, and the role of agriculture as a driving sector** *Christoph Humborg, Baltic Nest Institute*
11.00 – 11.40	**Agricultural development scenarios from OECD 2020 – 2050: Adaption to the Baltic Sea Region** *Bo Norell, Swedish Board of Agriculture & Ministry of Rural Affairs*
11:40 – 12.00	**Societal instruments to influence HOW agriculture is performed without excessive losses of nutrient** *Peter Wallenberg, Swedish Board of Agriculture*
12:00 – 12.30	**Discussion part 1: Does marine ecologists' agricultural scenarios meet those of agronomists, are the drivers the same?** *Panel and audience*
12:30 – 13.30	**Lunch**
13:30 – 14.00	**Water protection measures in agriculture at present and in the future – modelling viewpoints** *Sirkka Tattari, SYKE, Finland*
14.00 – 14.40	**Poland – trends** *Agnieszka Rutkowska, Institute of Soil Science and Plant Cultivation, National Research Institute, Poland*
14.40 – 15.20	**Denmark – trends and scenarios** *Christen Duus Børgesen, Aarhus University, Denmark*
15.20 – 15.50	**Group discussions including coffee**
15.50 – 16.20	**Plenary discussion based upon group discussion**
16.20 – 16.50	**The really long term perspective – towards 2050 and beyond** *Lotta Rydhmer Future Agriculture, Swedish University of Agricultural Sciences*
16.50 – 17.00	**Closing of the meeting** *Moderator, participants, organisers*