9th Meeting of the Steering Committee of Policy Area Nutri

27.4.2016, Warsaw, Poland

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EU STRATEGY
FOR THE BALTIC
SEA REGION

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Flagship proposals

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Flagships

- A single project or a set of projects operating in the same field or a process
- Added as an Annex to the EUSBSR Action Plan

- PA Nutri decide on Potential Flagships on SC meetings
  - General requirements on the AP
  - PA Nutri criteria
- PACs send project proposals to DG Regio
- DG Regio recommends projects to National Coordinators
- NCs decide on Flagships to be added to the Annex of the Action Plan
  - 4 completed
  - 7 ongoing (3 funded)
  - 1 + ? emerging

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POLICY AREA 'NUTRI'

A Flagship should:

1. fulfill the general FP criteria stated in the Action Plan for the EUSBSR
2. be in line with at least one of the Actions for the PA Nutri
3. not overlap with other existing FPs or any other projects
4. have **concrete sustainable results** for reducing nutrient loads
5. submit **transferable results which shall become public**

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POLICY AREA 'NUTRI'

PA Nutri actions

- Managing nutrients more efficiently
- Improving waste water treatment
- Facilitate cross-sectoral policy-oriented dialogue
- Improve nutrient load data
- Cooperate with non-EU Member States
- Investigate cost-efficient nutrient reduction mechanisms

Potential PA Nutri Flagship

1. **SIGWET- Increasing Significance of Midfield Wetlands to Combat Baltic Sea Eutrophication**
   - Seed project 04/2016-04/2017: WWF Poland (PL)
     - Supported by PA Nutri: *"…In case the project is funded by the EUSBSR Seed Money Facility, we will follow its implementation and support its development to a full project application."*
   - Main project: Institute of Technology and Life Sciences (PL)
     - 3 years, 3,5 million eur
   - **Objectives:** To decrease nutrients run-off from farms in 6 countries of the BSR by construction or revitalization of midfield wetlands on different farms of the BSR.
   - **Results:** 100 midfield wetlands, report of role, costs and effectiveness, manual for farmers, webpage, recommendations for authorities, conferences

PA Nutri Flagship proposals

1. **RelNutData - Sufficient and reliable nutrient loading data - the River Daugave catchment area**
   - Lead: Finnish Environment institute, SYKE (FI)
2. **BASROD - Studies of Baltic Sea Restoration by Oxygenation of the Deepwater**
   - Lead: University of Gothenburg (SE)
3. **CIL - Combating internal leakage and recycling of phosphorus**
   - Lead: TechMarket Sweden AB (SE)
4. **URBLUME - Blue Green Cities Towards Mitigation of Eutrophication Problem**
   - Lead: Gdansk University of Technology (PL)
5. **CONSUME - Consumer guide for sustainably produced meat**
   - Lead: WWF Baltic Ecoregion Programme (SE)

RelNutData – Sufficient and reliable nutrient loading data – the River Daugave catchment area

- **Leader:** Finnish Environment institute, SYKE (FI)
- **Objectives:** To get more reliable and accurate data on nutrient inputs to the Baltic Sea to better assess the effectiveness of different measures taken to reduce nutrient loading and counteract eutrophication in the Baltic Sea.
- **Results**: Nutrient load data from areas of the Baltic Sea catchment area, where information is not currently available, it's not reliable or is insufficient. Model and methods that can be applied to other areas.
- **Comments**:

BASROD – Studies of Baltic Sea Restoration by Oxygenation of the Deepwater

- **Leader:** University of Gothenburg (SE)
- **Objectives:** To develope and describe a method to reduce the total P loading by about 100 000 tonnes/year by shutting off the internal source of phosphorus from anoxic bottom by oxygenation of anoxic bottom.
- **Results**: Complete description of a method to restore the Baltic Sea by oxygenation of the deep bottoms.
- **Comments**:

CIL – Combating internal leakage and recycling of phosphorus

- **Leader:** TechMarket Sweden AB (SE)
- **Objectives:** To reduce internal phosphorus leakage by recovering organic material from the seabed and to oxygenate the bottom water. Also to find funding for restoration efforts through circular economy framework.
- **Results**: Finalized design of a mobile dredging unit and a full scale mobile dredging system (test operations in one basin and full scale operations in ten basins), dredged material delivered to the end used, emission fee structure in development
- **Comments**:

URBLUME – Blue Green Cities Towards Mitigation of Eutrophication Problem

- **Leader:** Gdansk University of Technology (PL)
- **Objectives:** To develop the methods and technologies to prevent urban water pollution and enriching water biodiversity by implementing WSUD systems in urban areas around Baltic Sea.
- **Results**: Set of technical solutions regarding sustainable, low-impact development (WSUD). New planning concepts and methods that can be used to integrate surface water systems in spatial planning. Simple and clear tools for stakeholders to support in decision making, designing and capacity building.
- **Comments**:

CONSUME – Consumer guide for sustainably produced meat

- **Leader:** WWF Baltic Ecoregion Programme (SE)
- **Objectives:** To develop meat guides further and launch them in newly targeted countries. Including the development and inclusion of a criterion for eutrophication. To develop together with academia and practitioners, methods for measuring the effects of different productions practices.
- **Results**: The meat guides to be used by consumers, retailers and producers leading to increased awareness, changed consumption and production patterns. Long term goal to facilitate transformation to more sustainable meat production and consumption in the region.
- **Comments**:

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PA Nutri Flagships

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Ongoing PA Nutri flagships

- NutriTrade – Nutrient Trading Scheme
- BBG – Baltic Blue Growth
- IWAMA – Interactive Water Management

PA Nutri flagships under development

- BEST – Better Efficiency for Sewage treatment
- BaRuWa – Baltic Rural Wastewater
- SUWMAB – Sustainable Communal Wastewater Management in teh Baltic Sea Region
- SmallWWTPs – Enhancing Efficiency of Small Wastewater Treatment Plants

BEST – Better Efficiency for Sewage treatment

- **Leader:** City of Helsinki (Environment Centre)
- **Objectives:** To improve treatment of industrial effluents at municipal WWTPs. Focus on nutrient discharges and contents of different hazardous substances in industrial wastewaters entering the municipal WWTPs. To develop sustainable cooperation and optimal treatment with municipal authorities, water utilities and industrial companies.
- **Results**: Tackling eutrophication by preventing the discharges through concrete pilot investments, training and transferring best practices. The project stresses the importance of transnational cooperation and supports WWTPs in the BSR to improve further their performance.
- **Comments**:

BaRuWa – Baltic Rural Wastewater

- **Leader:** POMInnO Sp.zo.o. (PL) & Technical University of Berlin (DE)
- **Objectives:** To addresses challenges related to a lack of appropriate wastewater treatment in rural areas in the Baltic Sea Region, insufficient know-how of available technologies, public perception, and barriers for market development.
- **Results**: To enhance the institutional capacity of the potential customers (e.g. farmers, households, municipalities), service providers in the value chain, and local authorities. Improved surface and ground water quality.
- **Comments**:

SUWMAB – Sustainable Communal Wastewater Management in the Baltic Sea Region

- **Leader:** Gdansk University of Technology (PL)
- **Objectives:** The project addresses good practice for wastewater management in communal (up to 2000 PE) and individual level
- **Results**: Awareness raising of the need and solutions in wastewater management in rural areas. Wider use of cheap and easy to maintain constructed wetlands, and their better adaptation to meet the local needs/conditions.
- **Comments**:

SmallWWTPs – Enhancing Efficiency of Small Wastewater Treatment Plants

- **Leader:** Turku University of Applied Sciences (FI)
- **Objectives:** To enable small WWTPs (300-3000 persons) in the Baltic Sea region to reach the purification standards and to increase the capacity of small WWTP owners, staff, planners and operators by introducing to them what are the most cost-efficient technologies for small scale treatment.
- **Results**: Increased knowledge of small WWTP owners, planners, staff and operators on most cost-efficient and innovative technology alternatives and best practices for operating, renovating and constructing small WWTPs leading to decrease in emissions in the region.
- **Comments**:

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Other issues and next steps

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PA Nutri Work Plan 2016

- **PA Nutri stakeholder seminar**
  - 14 April 2016, Gdansk, Poland
  - wetlands, ww treatment & sludge
- **EUSBSR Annual Forum**
  - November 8-9, Stockholm, Sweden
  - Sludge seminar with PA Hazards, PA Bioeconomy and HELCOM
- **PA Nutri SC Meetings**
  - Back-to-back with stakeholder seminar?

Coalition Clean Baltic

EUSBSR – What are the opportunities to save the Sea? Policy setup

- Need for better coordination between various policies and platforms (EU, non-EU, HELCOM)
- Need for better cross-sectorial cooperation
- Synergy in diversity
- Less administration and bureaucracy needed
- Be concrete and measurable (e.g. in tons reduced?)
- Think about changes to deliver!

How to reduce nutrient loading from diffuse and point sources in rural areas?

Case Wetlands:

- **Tailored solution** (can be a challenge)
- **Avoids disadvantages of conventional treatments, e.g. sludge**
- **Source reduction instead of end-of-pipe**
- **Scales and conditions matter!**
- **Synergistic effects** (nutrients, micropollutants, biodiversity)

Coalition Clean Baltic

Why managing nutrients more efficiently is important?

Coalition Clean Baltic

Case Sludge management

- No need to await for EU regulation – regional requirements may drive the change
- No single solution: sludge source and plant size matters
- Combined solutions and synergies possible
- Nutrients and Energy to be addressed
- Systematic approach (harmonization, standards, technologies, awareness)


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http://groupspaces.com/eusbsr-nutrient-inputs/