



EUSBSR EU STRATEGY FOR THE BALTIC SEA REGION

**14th Meeting of the Steering
Committee of Policy Area Nutri**

Internal nutrient reserves

18.2.2019



1. Managing nutrients more efficiently

Promote measures and practices which support nutrient recycling and reduce nutrient losses from agriculture, aquaculture, forestry, and waste-water treatment sludge, **as well as contribute to reducing nutrients that have already reached the sea. //**

6. Investigate cost-efficient nutrient reduction mechanisms

// This action also promotes restorative techniques, e.g. oxygenization, chemical precipitation, dredging and recycling nutrients in organic substrates at the sea, to improve the environmental status of the Baltic Sea, provided these techniques pass sustainability and risk assessment procedures.



HELCOM-EUSBSR Workshop on internal nutrient reserves

28-29 November 2017 Gothenburg, Sweden



Suggestions by the workshop

- Need for a research project involving experts in various scientific disciplines → comprehensive assessment and elaboration of a scientifically sound concept for large-scale management of internal nutrient reserves in the Sea.
- Measures for managing the internal phosphorus resources may be implemented when adequate measures to minimize the external load to the catchment have been implemented.
- To elaborate solutions for management of the internal nutrient reserves and perform pilot tests in coastal waters and lakes.
- The long-term sustainability and potential adverse effects of the measures on aquatic ecosystems must be thoroughly evaluated.
- Need to develop regional principles serving as a guidance for large scale measures in the open sea.

HELCOM Ministerial Declaration 2018

24. *RECOGNIZING with concern that large amounts of nutrients have accumulated in the Baltic Sea during the past decades due to anthropogenic activities, resulting in an enhanced internal flux of nutrients between sediments and sea water thereby exacerbating eutrophication;*

25. *WE ENCOURAGE, as a first step, further improving the knowledge base regarding the nature and dynamics of internal nutrient reserves.*

26. *WE ENCOURAGE, as a second step, undertaking research on the potential of measures to manage internal nutrient reserves that have accumulated in the sediments due to anthropogenic activities in the last decades; WE EMPHASIZE that the risks to ecosystem and human health stemming from measures to manage internal nutrient reserves, as well as the long-term sustainability of their effects, need to be considered and thoroughly evaluated; WE ALSO ENCOURAGE in parallel developing and applying a risk assessment framework in HELCOM to meet the necessary environmental requirements for measures planned for the open sea and any other measures having potentially significant transboundary effects; WE ALSO ACKNOWLEDGE the need to elaborate in line with the Helsinki Convention commonly agreed regional principles as guidance for internal nutrient reserves management.*

HELCOM group to draft the regional principles and risk assessment framework for management of internal nutrient reserves (ad hoc Group MINUTS)

- ToR Approved by HELCOM HOD 55-2018
- Group to draft the
 - a) Risk assessment framework
 - b) Regional principles as guidance for nutrient reserves management
- Work through correspondence & online meetings → report to HELCOM Pressure
- Workshops are foreseen to facilitate the work and help engage stakeholders
 - PACs Nutri to follow the work and provide support organising the workshops?

Link to the report:

<https://vahanen.com/en/references/speeding-ecological-recovery-baltic-sea/>

VAHANEN



SPEEDING UP THE ECOLOGICAL RECOVERY OF THE BALTIC SEA

Assessment of the contribution of internal nutrient storages to the eutrophied state of the Baltic Sea and technical, socio-economic, political, legal and institutional aspects of potential measures to mitigate the internal nutrient leakage from bottom sediments

Client: Ministry of the Environment

May 25, 2018



Photograph: Janne Gröning



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Meetings and events

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Past and upcoming events

- IWAMA Final Conference in Turku, Finland 30-31.1.2019 ([link to materials](#))
- Exchange days for Agri-Environmental Knowledge in Jyväskylä, Finland 12.-13.2.2019 ([link to webstream](#))
- DESIRE Kick Off meeting in Greifswald, Germany 20.-21.3.2019 ([link](#))
- XX Anniversary International Environmental Forum - Baltic Sea Days in St. Petersburg, Russia 21.-22.3.2019 ([link](#))
- Project BEST: Management of effluents from food and dairy products with high content of nutrients and BOD in Riga/Jelgava, Latvia 2.-4.4.2019 ([link](#))
- Interreg Baltic Sea Region Programme Conference in Lübeck, Germany 9.-10.4.2019 ([link](#))
- EUSBSR Support Module 5 in Berlin, Germany 10.-11.4.2019



12 - 13 JUNE 2019
GDANSK / POLAND

10TH ANNUAL FORUM OF THE EUROPEAN UNION STRATEGY FOR THE BALTIC SEA REGION



Circular and sharing economy as an answer to demographic changes and environmental challenges in the Baltic Sea Region

- 3 main sessions, 18 thematic panels and Networking Village.
- **Safe Nutrient Recycling for cleaner Baltic Sea Seminar** – by PA Nutri, PA Hazards and HELCOM secretariat

Suggestion by Nutri PACs to organize:

- 15th PA Nutri SC Meeting 11 June 2019 at 15-18:00 in Urząd Marszałkowski Województwa Pomorskiego (ul. Okopowa 21/27, Gdańsk)
- Joint dinner with PA Hazards SG at 18:30 in Restaurant Cała Naprzód (ul. Tokarska 21/25, Gdańsk)



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EU STRATEGY FOR THE BALTIC SEA REGION

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