

# NORDBALT ECOSAFE

## Invitation to REGIONAL STAKEHOLDER MEETING

A new EU project named **NORDBALT-ECOSAFE** focuses on a region in Europe that offers ideal conditions for developing an innovative methodology to quantify nitrogen (N) and phosphorus (P) sources and pathways and efficiently reduce nutrient emissions. The project is a coordinate or support research action that includes activities and policies (networking, exchanges, access to research infrastructures, studies, conferences, etc.) that it is intended to support the policies of the EU Agencies for future environmental planning.

The overarching aim of **NORDBALT-ECOSAFE** is to ensure that N and P concentrations and loadings in water bodies in the Nordic-Baltic region are reduced and will remain within safe ecological boundaries in the different regional water bodies such as streams, rivers, lakes, and coastal waters.

The **NORDBALT-ECOSAFE** consortium consists of eight institutes and will develop and demonstrate innovative methods and establish best practices to improve current river basin management and governance by reaching the following major aims:

- i) Setting ecologically safe nutrient boundaries in different types of water bodies;
- ii) Improving monitoring of nutrient concentrations by comparing benefits of novel high-frequency online sensors with traditional monitoring;
- iii) Establishing nutrient loading tipping points for carbon sequestration and emissions in water bodies;
- iv) Establishing a harmonised river basin modelling tool for precise estimation of nutrient sources, pathways and transport;
- v) Demonstrating novel Nature Based Solutions (NBSs) and Mitigation Measures (MMs) for reaching the required nutrient load reductions;
- vi) Developing advanced solutions supporting regional governance structures to implement the most suitable measures to meet the ecological nutrient boundaries.

*The project has seven work packages*

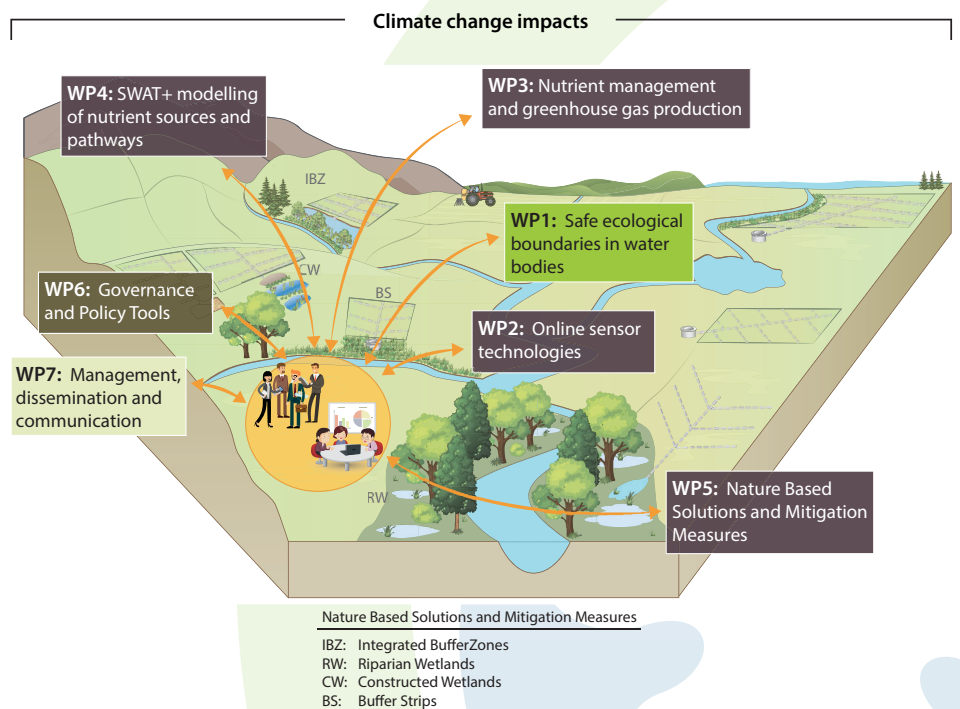


Figure 1: NORDBALT-ECOSAFE work packages.

One important part of the project is to reach out to regional and national stakeholders at regional meetings in our six catchments to be investigated in the project (Fig. 2).

The project will develop a portfolio of nature based solutions and mitigation measures in agriculture and forestry for reaching safe ecological boundaries in water bodies (Fig. 3).

**NORDBALT-ECOSAFE** is inviting you to attend the regional stakeholder meeting.

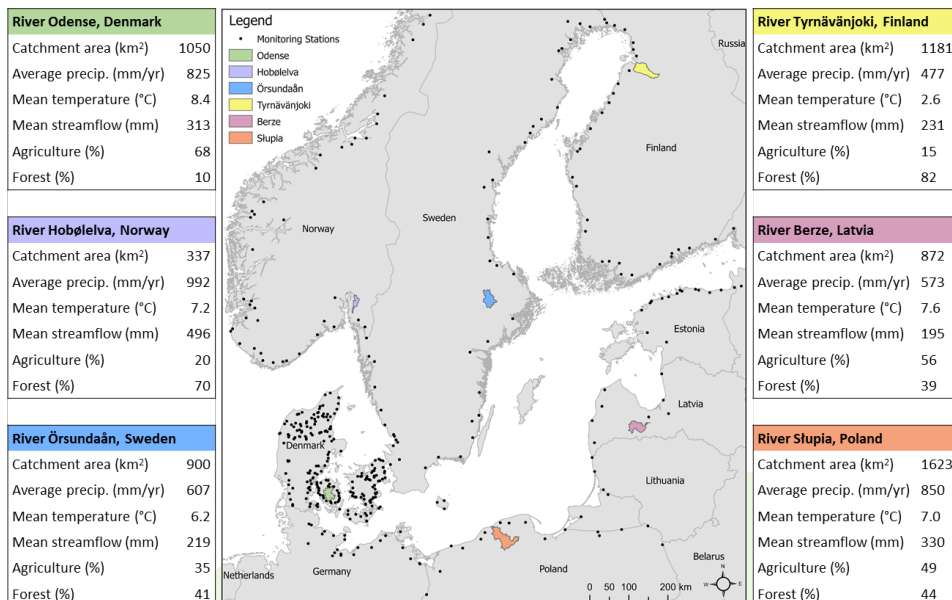
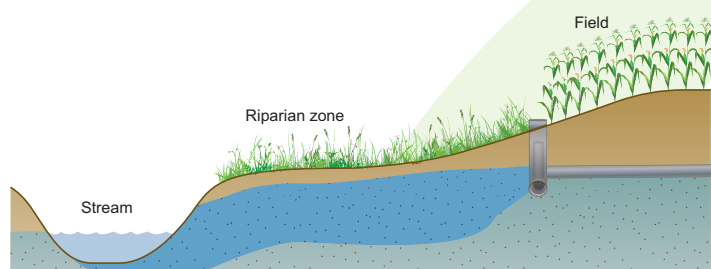
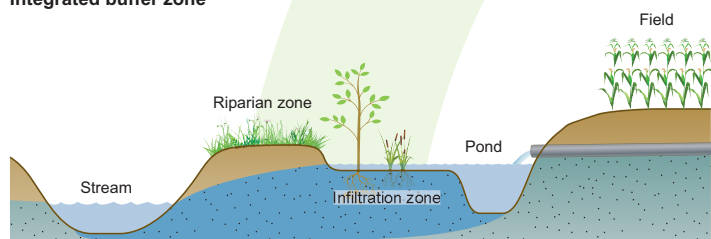


Figure 2. The six catchments that is central for the projects work and outputs.

**Saturated buffer zone**



**Integrated buffer zone**



**Drain water irrigation**

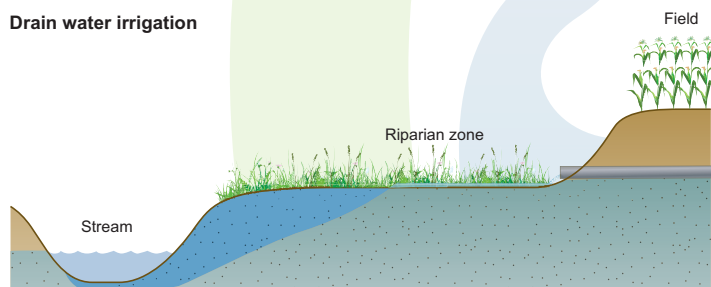
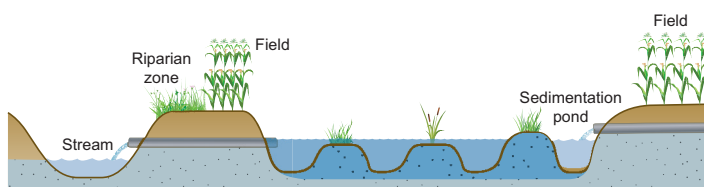
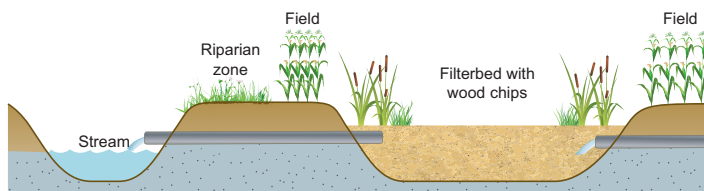


Figure 3. Examples of Nature based solutions and mitigation measures adopted in Denmark.

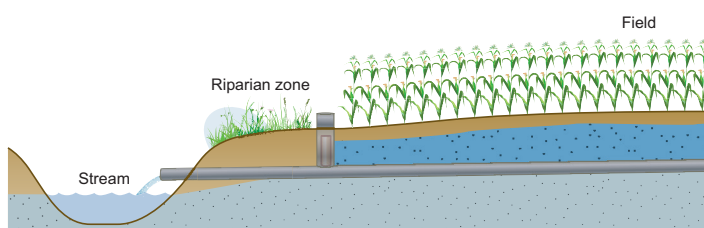
**Free water surface constructed wetland with sedimentation pond**



**Denitrifying bioreactor**



**Controlled drainage**



**The stakeholder meeting will be organized as 2-3 short interactive sessions:**

1. Presentation and discussion of project content and needed outcomes
2. Presentation and discussion of good/moderate nutrient boundaries in water bodies in your region
3. Presentation and discussion of what kind of nutrient mitigation measures are valuable in your region and eventual barriers for uptake

**What's in it for me as a stakeholder?**

- You can influence NORDBALT-ECOSAFE project content seen from a regional perspective
- You can learn about novel methods to monitor (sensors) and model (SWAT+) nutrient losses
- You can learn about novel mitigation methods for reducing nutrient losses to water from other countries around the Baltic Sea and North Sea
- You can gain insight into how other regions implement mitigation measures in agriculture and forestry (governance methods).