



NordBio

Iceland's chairmanship in the Nordic Council of Ministers 2014



UMHVERFIS- OG AUÐLINDARÁÐUNEYTIÐ
Ministry for the Environment and Natural Resources

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The Nordic Bioeconomy

**The largest of three
programmes under Iceland's
chairmanship**



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A collaboration project of the Nordic Councils of Ministers for fisheries, fish farming, agriculture, food and forestry, trade, energy and regional development, environment, education, research and culture



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Three governmental ministries in Iceland

- **Ministry of Industries and Innovation**
- **Ministry for the Environment and Natural Resources**
- **Ministry of Education, Science and Research**



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Broad Nordic Involvement

- **Nordic participation in the projects**
- **Nordic Institutions i.e. Nordic Innovation, NorForsk, NordGen, NordRegio, Nordic Energy Research**



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**Extensive cross-sectoral
cooperation**

**Has been a valuable learning
proces for the sectors and
ministeries involved – dialoge
and cooperation has to continue**



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Projects

- **Innovation in the Nordic Bioeconomy**
- **WoodBio**
- **Marina**
- **ERMOND**
- **Biophilia**



WoodBio



Wood biomass in the Nordic Bioeconomy



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WoodBio



Overall goal

- **To highlight the role of forestry in the Nordic bioeconomy with emphasis on wood biomass as raw material.**



WoodBio

Wood biomass



Energi



Ethanol

Bio oil



Textile



WoodBio



Output

- **Biomass supply and predicted future demands (2020, 2050)**
- **Best management practices and available land area**



WoodBio



- **Highest value added product**
- **New developing in industries (innovation)**
- **The importance of wood biomass in the Nordic Bioeconomy based on the findings of the information gathered**



WoodBio

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Marina



Emission reduction and increased use of alternative fuels in marine applications



MARINA



Overall goal

**To reduce emissions
and increase the use of
alternative fuels in the
marine sector**

MARINA



Oil consumption

- **The Nordic countries use almost 100.000 barrels of oil per day, just for shipping and fishing**
 - **10% reduction would be equivalent of finding a large oil well with no capital cost and no harmful emissions!**
- **Fish is "oil expensive": 1 kg of fish can cost upwards of 0,5 kg oil!**



MARINA



Overall outcome

Functioning Nordic network of stakeholders which can bring the public and private sector together to solve challenges on the way to finding the emission free oil wells of energy savings and renewable biofuels on sea



MARINA



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ERMOND



Ecosystem resilience for mitigation of natural disasters



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ERMOND



Goals

The aim of the ERMOND project is to facilitate new thinking and new solutions in preventing damage and loss of lives due to natural disasters in the Nordic countries



ERMOND



Floods, storms, earthquakes, erosion and volcanic eruptions and other natural disasters are a major threat to all human societies.

Annually more than 200 million people are affected.



ERMOND

- **Restoration of wetlands and rivers reduces floods**
- **Restoration of woodlands reduces damage by volcanic ash**



ERMOND



Output

- **Overview of natural disasters in the Nordic region and how ecological restoration can be used to mitigate such hazards**
- **Feasibility case studies of strategic expansion of ecosystem resilience**
- **Recommendations of actions to enhance build-up of ecosystem resilience**



ERMOND



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Thank you



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