Saving the Sea

How transnational cooperation promotes the transition for sustainable shipping industry in the Baltic Sea Region

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CPMR Baltic Sea Commission Maritime Working Group
Hello!

EU Strategy for the Baltic Sea Region (EUSBSR)

Political Area (PA) Ship

https://www.balticsea-region-strategy.eu/about/about
What you can expect from me today:

• Shipping in the BSR: Some facts and figures
• Challenges on the status quo
• Solutions!
Some facts and figures

General shipping
- Apprx. 1500-2000 IMO registered ships sailing constantly on the Baltic Sea

Environmental
• Emissions into the sea and air: SOx, NOx, particulate matters, GHGs
• Sewage, litter (particulary microplastics)

Economic
• 80% of import and 90% of export travels by sea (FI)
• Maritime industry employs apprx. 25 400 ppl in Finland (2020), with an estimated turnover 7,7 billion € (FI)
Challenges

• Sensitive marine environment
• Slow uptake on digitalization
• Knowledge gaps: which **fuel** to choose?
• Variety of regulations (demonstrated in the next slide) to respond to (and no one wants to be the first)
Clean shipping-related regulations

- High-level action plan of the International Maritime Organisation (IMO);
- Integrated maritime policy including blue growth and other maritime policies of the European Union;
- Baltic Sea action plan (adopted in 2007) of the Baltic Marine Environment Protection Commission (HELCOM), currently under revision, the updated version to be adopted by the Ministerial meeting in 2021;
- White paper on transport (2011);
- NAIADES II European action plan for the promotion of inland waterway transport (2018);
- TEN-T network, especially TEN-T Regulation 1 315 (2013);
- EU water legislation, especially Water framework Directive (2000/60/EC);
- Habitats Directive (92/43/EEC) in connection with the Birds Directive (2009/147/EC);
- Alternative Fuels Infrastructure Directive and its update (ongoing);
- National Emission Ceilings Directive (NECD), Ambient Air Quality Directives (AAQD);
- International Convention for the Safety of Life at Sea; European Commission, Report “Towards an implementation strategy for the sustainable blue growth agenda for the Baltic Sea region”, Brussels, 2017.06.09
- MARPOL Convention;
- IMO’s Ballast Water Management Convention (2014);
- IMO’s AFS Convention and EU Regulation and
- IMO’s Initial Strategy on Reduction of GHG Emissions (2018) and measures developed thereunder.
- European Green Deal, principally: the EU Zero pollution action plan, the Chemicals strategy (e.g. including availability of shore power), the EU Biodiversity strategy 2030, the Sustainable Europe investment plan, the EU industrial strategy...
Solution:

Transnational cooperation
ECOPRODIGI 2017 - 2020
Eco-efficiency to maritime sector via Digitalisation

• ECOPRODIGI addressed both the environmental and economic challenges by increasing eco-efficiency at all stages of the vessel lifecycle from design and building to the use, maintenance, stowage as well as conversion processes. It concretely developed and piloted digital solutions to better measure, visualise and optimise the industry processes.

• ECOPRODIGI developed training packages, a digitalisation road map for the industry and policy workshops which were used to draw briefings and recommendations to ensure the usage of this project’s results also in the future.

• 21 partners from 5 Baltic Sea countries:
  • Five universities, three research institutes, ten companies, two public authorities and one non-governmental organisation

• Funded by Interreg BSR

More at: https://ecoprodigi.eu
COMPLETE 2017 -2020
Completing management options in the Baltic Sea Region to reduce risk of invastive species introduction by shipping

• The project addressed two major sources of non-indigineous species: ballast water and ship hulls
• Harmful organisms can have an affect on human health, livelihoods (aquaculture) and fisheries and/or alter the structure of marine food webs
• Created e.g. interactive maps for hull cleaning purposes around the BSR
• Funded by Interreg BSR

• 12 partners from 7 Baltic Sea countries:
  • Six universities, four research institutes, and two intergovernmental organisations

More at: https://www.balticcomplete.com/project
EnviSuM 2016-2019
Environmental Impact of Low Emission Shipping: Measurements and Modelling Strategies

- The EnviSuM project addressed measurement and modelling strategies to assess present and future cost and the health and environmental effects of ship emissions in view of the IMO emission regulations that entered into force in January 2015.

- The EnviSuM project results provided policy makers and authorities with tools and recommendations for the development of future environmental regulations, and the shipping sector with guidance to support future investment decisions.

- Funded by Interreg BSR

- 12 partners from seven European countries:
  - Six universities, three research institutes, two companies and one intergovernmental organisation

Results & more: https://blogit.utu.fi/envisum/materials/
EMERGE 2020 -
Evaluation, control and Mitigation of the Environmental impacts of Shipping Emissions

• The project aims at quantifying and evaluating the effects of potential emission reduction solutions for shipping in Europe and developing effective strategies and measures to reduce the environmental impacts of shipping.

EMERGE will systematically analyze the complex interactions between technological options, pollutant emissions and dispersion, and the environment.

• Funded by HORIZON 2020

• 18 partners from 10 European countries:
  • Nine universities, five research institutes, two companies and one intergovernmental organisation

More to be found at: https://emerge-h2020.eu/
WRAPPING UP

- Transnational cooperation to solve transnational challenges: no-brainer

- BSR-wide (or even wider) partnership ensure results which are BSR-widely recognised and solutions which are also as widely implemented

- There is power in numbers: the more countries take issues into their agenda the more effect it has at every (policy) level

- Economic instruments are needed to foster cooperation and also to ensure level playing field for business

- Involving business actors essential (also one of the requirements of Interreg BSR in the recent calls)
Questions / Comments?
Thank you!

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