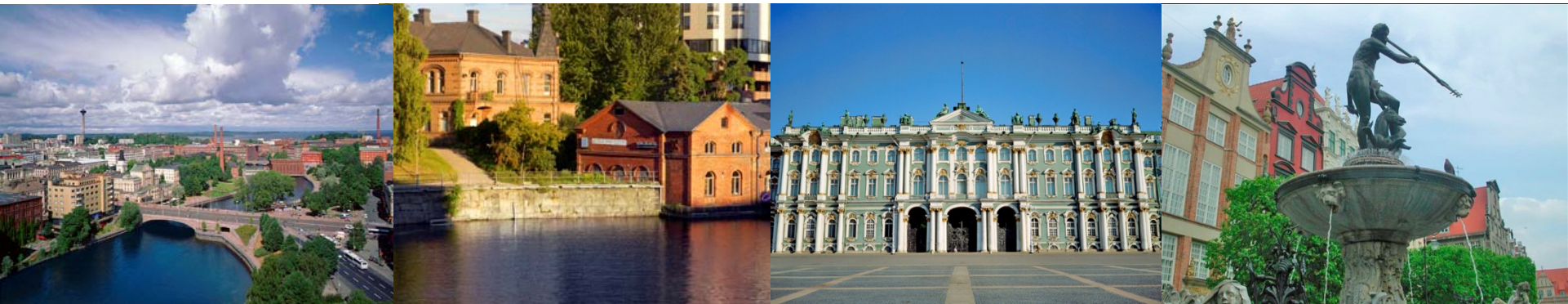




SUOMEN ITÄMERI-INSTITUUTTI
THE BALTIC INSTITUTE OF FINLAND

BSR InnoShip

Baltic Sea cooperation for reducing ship and port emissions
through knowledge and innovation-based competitiveness





BSR InnoShip in brief

- **cooperate in minimizing ship-based air pollution, while aiming at optimizing competitiveness of the marine industry**
- **The project will promote new and innovative transnational approach to mitigate the different needs and interests of the maritime sector and to ensure basis for more sustainable and economically viable management of the Baltic Sea resources**





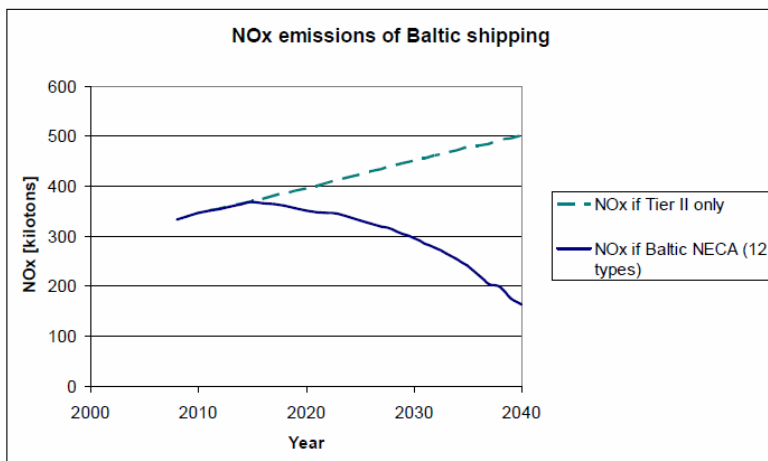
Policy framework

- **EU Strategy for the Baltic Sea Region, Priority Area 4 (clean shipping)**
 - a part of the flagship project *“Promote measures to reduce emissions from ships and enhance the development for shore side electricity facilities or for emission treatment in all major ports around the Baltic Sea”*
- **HELCOM Baltic Sea Action Plan**
 - Included in HELCOM Baltic Sea Action Plan: Maritime activities segment (M-40: Estimate the contribution of NOx emissions from shipping to eutrophication), 2010 HELCOM Ministerial Declaration (Moscow, May 2010)





Problem to be addressed



- IMO has designated the Baltic Sea as a Sulphur Emission Control Area (SECA) requiring a progressive reduction in sulphur oxide (SOx) emissions from ships by 2015. A NOx emission control area application is in preparation

- shipping industry in the Baltic Sea will be faced in the next five years with substantially increased fuel expenses, logistics costs and needs for large investments into low-emission technology and infrastructure
- Through international agreements of IMO, EU Marine Strategy Framework Directive, HELCOM BSAP and EUSBSR, the BSR countries are obliged to **take actions to reduce harmful atmospheric emissions and strengthen joint coordinated efforts** to make the Baltic Sea a model area for clean shipping





Objectives

Overall objective:

- **to minimize adverse effects of pollution from maritime traffic and optimize the competitiveness of the Baltic shipping**

Sub-objectives:

- **promote transnational coordinated efforts** to make the Baltic Sea a model region for clean shipping in atmospheric emissions, in line with the international and national regulations,
- **strengthen the capacities of authorities and decision-makers** through the sharing and adoption of the good practices and up-to-date knowledge
- **improve knowledge, skills and capacities of ports, cities and shipping companies** in development and adoption of innovative low-emission technical solutions,
- **raising public awareness and political commitment** to reduce negative ship exhaust emission effects, mitigate related economic implications and promote solutions available in the Baltic Sea region and Europe wide





Partners

- **19 partner organizations from nine Baltic Sea region countries** representing universities and research institutes, maritime business development agencies and associations, Pan-Baltic organizations and cities and ports
 - **Russia** is represented in the project by the City of St. Petersburg as an actively engaged associated partner
- The partnership design reflects state-of-the-art expertise, best practices and experiences on emission effects and risks and economic implications of their reduction in BSR
- The partnership is built on the basis of long-term cooperation between the key project partners, open call and proposals and support from HELCOM Maritime Group, HELCOM Secretariat and the EU BSR Strategy Priority Area 4





Partners

- **The Baltic Institute of Finland** as the Lead Partner
- **Leading meteorological and maritime research institutes and universities** in BSR and Europe are involved in measurements and monitoring activities of atmospheric emissions from the Baltic shipping and the related health risk assessment and environmental impact analysis
- The partners include also organizations providing **expertise in assessment of related economic implications and cost-efficiency estimations** in development of innovative technological low-emission solutions
- Under the **UBC Commission on Environment** coordination, ensuring the transnational involvement of BSR cities, ports and other key stakeholders, partners and associated partners share their experiences on low-emission solutions, measures and policies





Work packages

WP 1: Project management (The Baltic Institute of Finland)

WP 2: Communication (The Baltic Institute of Finland)

WP 3: Knowledge and capacity building for reducing air emissions from the Baltic shipping

- Lead by **Finnish Meteorological Institute**

WP 4: Enhancing and piloting transferable innovative cost-effective low-emission solutions for Baltic shipping

- lead by **Maritime University of Szczecin** and **University of Turku, Centre of Maritime Studies**

WP 5: Strengthening joint transnational efforts to establish the Baltic Sea as a low-emission area with competitive marine industry

- Lead by **UBC Commission on Environment**





Financing

- BSR InnoShip was approved for funding in the EU Baltic Sea Region Programme 2007-2013 third call
- The total project budget is **3.621.447,61 EUR**
- The project duration is 42 months, 6/2010 – 12/2013

