

Sustainable Flow

Interreg Central Baltic Sustainable Flow Sustainable flow of goods and decreased CO2 emissions of transportation

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- Our vision: All SAMK students will be employed
- Rank #1 "best quality of education in Finland"
- Participantion to Interreg Central Baltic programme since 2014



Maritime Logistic Research Center at SAMK

- Faculty of Logistics and Maritime Technology
- Maritime education over 140 years
- <u>Maritime Logistics Research Center since</u>
 2021
- Themes of efficiency, safety, blue and green growth.
- National & international projects



Master Mariner Heikki Koivisto (TRAFICOM/62978/2029) Rauma Maritime Training "merikoulu" (several admins) Lecturer 1991 – 1994 Senior Lecturer 1994 – 2002 (simulator) Head of Maritime Training 2003 – 2012 Project manager (maritime) 2012 –

EU – projects since 1995



Port App

STM

EFFICIENT FLOW





Sustainable Flow Facts and Figures

- Interreg Central Baltic Programme
 - Priority 2 Improved environment and resource use
 - Specific objective PO5 Decreased CO2 emissions
- Partners
 - <u>Satakunta University of Applied Sciences</u> FI (lead partner)
 - <u>Swedish Maritime Administration SE</u>
 - <u>Åland University of Applied Sciences</u> AX
 - International Transport Development Association LV
 - <u>Tallinn Technical University/EMERA EE</u>
 - <u>Fintraffic VTS Ltd</u> FI
 - <u>Swedish Confederation of Transport Enterprises</u> (Ports of Sweden) SE





Overview of the Project: What, Why, How

Sustainable Flow

Sustainable Flow – sustainable flow of goods and decreased CO₂ emissions of transportation

- The Baltic Sea is one of the busiest waters in the world (15% of the cargo traffic)
- Seven pilot ports
- Tackling the climate crisis through concerted efforts: cutting of CO2 emission by 10% in the ports as transportation hubs



Seven Pilot Ports in Central Baltic Area

- Pori, Fl
- Rauma, Fl
- Mariehamn, AX
- Norrköping, SE
- Oxelösund, SE
- Tallinn, EE
- Riga, LV



Central Baltic Programme





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Goal of the Project

In strong cross-border cooperation, by end of the project in 2026 the ports as hubs of maritime sector in Central Baltic area will have the ability and the capacity to be smarter, greener, more cost-efficient, interoperable, sustainable, accessible, safer and more secure.



Sustainable flow of goods

Development of practical solutions in support of energy efflicient transportation systems.



Decreased CO2 emissions

Contribution to the reduction of CO2 emissions through seven pilot ports in the Central Baltic area.



Project Objectives

- Development of practical solutions and an open access digital tool to support CO2 reduction and energy saving measures in transportation systems, and
- A concept for energy savings and production of renewable energy in ports as hubs of multimodal operations.





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Main Project Steps

- Analysing, surveying, and benchmarking to determine the current situation.
- Development of a digital tool for reduction of CO2 emissions and a guidance tool for energy efficiency and renewable energy for companies in the maritime cluster.
- Investments in ports to support CO2 reductions goals, following practical usability and renewable energy production.
- Development and implementation of a decision-making tool for target groups and a concept for energy saving measures.
- Experience exchange activities for communications and stakeholder commitment.



Project Status After Period 1

- Sustainable Flow
- Period 1 (1.5.–31.10.2023)
- Cross border co-operation started well with new partnership
- All seven pilot ports committed for the project and 10% CO2 reduction
- Investigated current situation, structure and information exchange in pilot ports
- Investigated current situation on energy saving and renewable energy
- Period 2 (1.11.2023 30.04.2024)



Baseline













Co-funded by the European Union

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IN COOPERATION WITH



https://centralbaltic.eu/project/sustainable-flow/