PA Ship Steering Committee meeting
7 November 2017, Gdansk

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Eco-efficiency to maritime industry processes in the Baltic Sea Region through digitalization

ECOPRODIGI

Interreg Baltic Sea Region

EUROPEAN UNION

EUROPEAN REGIONAL DEVELOPMENT FUND

Objectives of ECOPRODIGI

The project aims at increasing eco-efficiency in the Baltic Sea Region maritime industry through digitalisation

- A considerable share of the ecological footprint of ships is generated in the operations and processes along the whole vessel life-cycle
- Digital technologies remain largely underexploited due to the lack of knowledge regarding the value they could bring, the lack of connections for creating them, and the challenges related to integrating them to existing processes
- Measuring, visualising and optimising the maritime industry processes would enable more proactive, and data-driven decision-making, thereby reducing many kinds of emissions, waste, and energy-consumption

ECOPRODIGI increases the institutional capacity of shipping companies, shipyards, suppliers and ports to improve the eco-efficiency of their current operations as well as to create and implement new digital solutions in the future.

Case 1: Digital performance monitoring

Case 2: Optimising cargo stowage

Case 3: Optimising shipyard processes

WP1 PROJECT MANAGEMENT AND ADMINISTRATION

WP2 EVALUATING MARITIME INDUSTRY PROCESSES AND TECHNOLOGY OUTLOOK

- Technology outlook and horizon scan
- Identifying the most critical eco-inefficiencies
- Evaluating the potential for digital solutions in solving these challenges
- Analysing the preconditions for applying them

WP3 SOLVING ECO-EFFICIENCY BOTTLENECKS THROUGH DIGITAL SOLUTIONS

- Enrolling international expert teams to develop and pilot concepts of the digital case technologies
- Piloting the technologies with the end-users and developing them further in collaboration
- Collecting and sharing discovered best practices

WP4 IMPROVING SEEDBED FOR ECO-EFFICIENT DIGITAL SOLUTIONS

- Development of a digitalisation and eco-efficiency implementation roadmap
- Creating and piloting a training programme for end-users based on best practices regarding eco-efficiency through digitalisation (incl. specific courses, games, workshops, seminars)

WP5 STRENGTHENING PUBLIC SUPPORT FOR MARITIME INDUSTRY DIGITALISATION

- Arranging policy workshops and seminars to discuss the outlook of digitalisation
- Producing policy briefings and recommendations to support digitalisation and eco-efficiency in the Baltic Sea Region

Public seminars, workshops and reports concerning the eco-inefficiencies as well as the technology outlook in the Baltic Sea Region maritime industry

Commercializable digital technologies; report on challenges and best practices regarding technology development and implementation; established industry-university groups for further co-development

Crew/management training modules to spread methods for the application of digital solutions and eco-efficient working culture; digitalisation roadmap

Events and published action recommendations for specific national and international regulators

Activity groups

WP1: PROJECT MANAGEMENT AND ADMINISTRATION

WP2: EVALUATING MARITIME INDUSTRY PROCESSES AND TECHNOLOGY OUTLOOK
Activity Group 2.1: Eco-inefficiency in vessel performance monitoring
Activity Group 2.2: Eco-inefficiency in cargo stowage
Activity Group 2.3: Eco-inefficiency in shipyard processes
Activity Group 2.4: Synthesis of eco-inefficiency and technology outlook

WP3: SOLVING ECO-EFFICIENCY BOTTLENECKS THROUGH DIGITAL SOLUTIONS
Activity Group 3.1: Solving bottlenecks in vessel performance monitoring
Activity Group 3.2: Solving bottlenecks in cargo stowage
Activity Group 3.3: Solving bottlenecks in shipyard processes
Activity Group 3.4: Synthesis of digital technology pilotings

WP4: IMPROVING SEEDBED FOR ECO-EFFICIENT DIGITAL SOLUTIONS
Activity Group 4.1: Developing digitalisation roadmap for increasing eco-efficiency
Activity Group 4.2: Providing training for shipping and ports
Activity Group 4.3: Providing training for shipyard ecosystems

WP5: STRENGTHENING PUBLIC SUPPORT FOR MARITIME INDUSTRY DIGITALISATION
Activity Group 5.1: Enhancing policy support through policy workshops
Activity Group 5.2: Producing policy briefings and recommendations

Project partners

PP 1	University of Turku
PP 2	Aalborg University Copenhagen
PP 3	Chalmers University of Technology
PP 4	University College of Southeast Norway
PP 5	University of Southern Denmark
PP 6	Carina Solutions Oy
PP 7	Centrum Balticum Foundation
PP 8	Danish Maritime
PP 9	DFDS A/S
PP 10	Island Ferry Secretariat
PP 11	Klaipeda Science and Technology Park
PP 12	Machine Technology Center Turku Ltd
PP 13	Meyer Turku Ltd
PP 14	OSK-ShipTech A/S
PP 15	Kockum Sonics AB
PP 16	Logimatic Solutions A/S
PP 17	Sininen Polku Oy
PP 18	RISE Research Institutes of Sweden
PP 19	JSC "Western Baltic Engineering"
PP 20	Vessel Performance Solutions Aps
PP 21	J. Lauritzen

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Associated partners

AO 1	ATS AB
AO 2	Svendborg International Maritime Academy
AO 3	Polish Maritime Cluster
AO 4	Seismo-Shelf Ltd.
AO 5	AS Tallink Grupp
AO 6	Tallinn University of Technology

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Project budget

- Budget: 4 243 492€
- Programme co-financing: 3 137 357€
- Partners' own contribution: 1 106 136€

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Contribution to EUSBSR

- ECOPRODIGI built around EUSBSR framework
  - Contributing to all three objectives:
    1) **SAVE THE SEA: sub-objective ”Clean and safe shipping”**
    2) CONNECT THE REGION: sub-objective ”Good transport conditions”
    3) INCREASE PROSPERITY: sub-objective ”Improved global competitiveness”

→ As EUSBSR is in line with wider international / EU / regional policies, ECOPRODIGI relevant for these too.

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Contribution to Policy Area Ship

PA Ship vision: Baltic Sea region = model region for clean shipping

- How? By *“ensuring that conditions for a competitive and greener maritime industry are in place”*

  → **ECOPRODIGI contributes to both greener and more competitive shipping industry in unique cooperation between reaserch institutions & industry end users**

- Contribution especially to PA Ship Actions
  2. “To support measures reducing emissions from ships” and
  3. “To develop shore-side facilities to foster clean shipping measures”

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Contribution to Policy Area Ship

ECOPRODIGI is in line with the PA Ship future strategic goals suggested:

1) Business sector integration:
   - Maritime industry end-users strongly involved in ECOPRODIGI

2) Focus on future-oriented topics:
   - Digitalisation of maritime industry in the core of ECOPRODIGI
   - Training & education in ECOPRODIGI to help adapting to the digital transition

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Applying Flagship status

Why Flagship status and close relation with PA Ship are crucial for ECOPRODIGI?

- To ensure project is in line with relevant policies and strategies.
- To increase the impact of project activities and results.
- To reach the target groups of the project - especially in WP 5!
  - Policy makers at different levels
  - Authorities & regulators
- To enhance the overall communications of ECOPRODIGI

+ Project Platform call

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Thank You!

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