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WINMOS II

WINMOS II

Winter Navigation Motorways of the Sea

Co-financed by the Connecting Europe Facility of the European Union

EU STRATEGY FOR THE BALTIC SEA REGION
FLAGSHIP

WINMOS II – Basics.

- Aims to:
  - further develop and enhance the winter navigation system and its safety,
  - safeguard required icebreaking resources in the future by developing new options and improving old capacity .
- Budget ~19M€; CEF (MoS) funding 6,6M€
- Implementation period: Feb 2016 – Oct 2019
- Partners: Finnish Transport Agency (coordinator), Swedish Maritime Administration, Arctia Icebreaking, Novia University of Applied Sciences, Aalto University, Estonian Maritime Administration and ILS Oy.

WINMOS II – Activities.

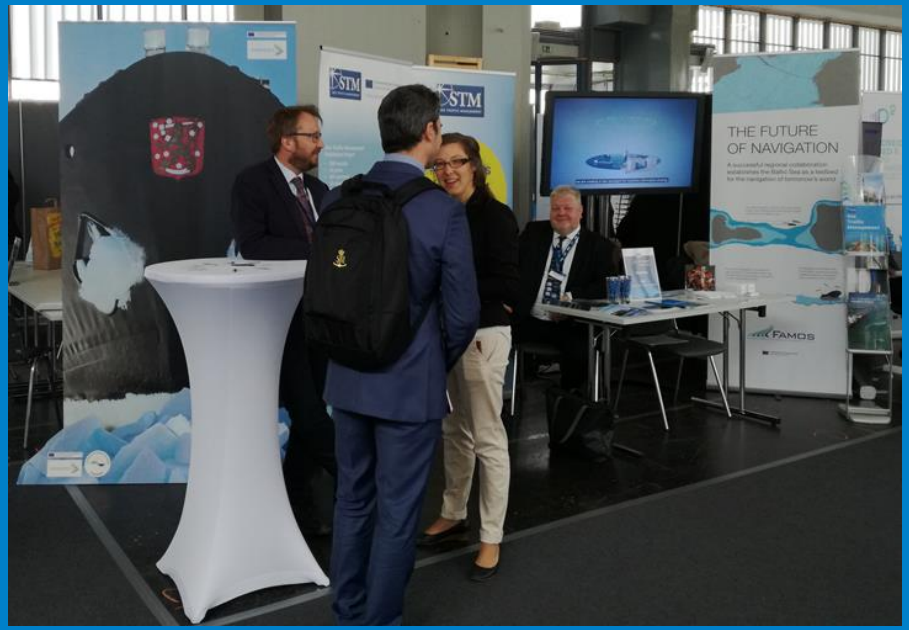
- Environmental benefits, reduction of fuel and emissions
  - Battery hybrid for safer and more environmentally friendly operation
  - Further development of the Common Rail system
- Life extensions and alternative options
  - Life extension of Finnish icebreakers (IB Voima and IB Sisu)
  - Study on life extension of Estonian icebreakers
  - Study on removable-bow concept
- More efficient use of resources
  - Implementation and further development of IBNext
  - Development of icebreaker training
  - Study on adequacy of icebreaking capacity and level of service in Baltic Sea during severe winters

RECENT ACTIVITIES.

- Implementation and further development of IBNext
  - Completed end of 2017; system in use
- Battery hybrid for safer and more environmentally friendly operation & Further development of the Common Rail system
  - Some minor issues still need solving.
- Life extension of Finnish icebreakers
  - Procurement of shipyard (IB Sisu) ongoing
- Study on life extension of Estonian icebreakers
  - Study translated
- Study on removable-bow concept
  - Shipyard and technical supervisors procured
  - Last model tests done; building work has started
  - Original budget 3M€ → 8-9M€

RECENT ACTIVITIES.

- Project management and dissemination
  - MoS coordinator Mr Simpson and his team visited Finland in December
    - Lunch and tour onboard Polaris hosted by WINMOS II
  - Attended annual TEN-T Days in Ljubljana, Slovenia in April
    - Joint stand with STM Validation & FAMOS
    - Produced joint brochure and film



FUTURE PLANS & ACTIVITIES.

- What kind of plans you have for ensuring the dissemination of the results, conveying the results to the policy level, possible continuation of the project?
  - Final seminar, dissemination of results to relevant stakeholders (international network), publishing studies on website, taking removable-bow into operation in Lake Saimaa etc.
  - Participation in relevant policy workshops etc.
  - WINMOS 3?

FUTURE PLANS & ACTIVITIES.

- What kind of plans you have for the coming decade 2020?
  - Challenges:
    1. Icebreaker fleet is aging and needs renewing
    2. Environmental regulations reduce vessels' icegoing capability
    3. Vessels are getting larger

    → the winter navigation system needs further improvement

    - more efficient and environmentally friendly, safer, more accurate
    - more information collection and sharing
    - improvement of weather forecasts and duration of forecasts

FUTURE PLANS & ACTIVITIES.

- Expected final results?
  - More efficient winter navigation system
  - Removable-bow, battery hybrid, common rail system, training programme, life extensions, environmental benefits, contingency plan and tighter cooperation (adequate resources for the whole Baltic Sea)
- What kind of assistance and support you would like have from the PACs and the steering committee ?
  - To stress the importance of icebreaking and winter navigation in the Baltic Sea Region on the policy level

www.winmos.eu

WINMOS II

Thank You.

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