INA
Innovation and Networks Executive Agency

Making implementation happen

Motorways of the Sea Priority – funding options
INEA in short

• European Commission's executive agency

• Implementing EU funding programmes for transport, energy and telecoms

• Providing stakeholders with expertise and high-level programme management

• Promoting synergies between the programmes

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Managing programmes worth €33.6B

2014-2020

CEF programme

€23.2B

Energy

Telecoms

€4.5B

€0.6B

H2020 programme

Energy

Transport

€3.0B

€2.3B

Legacy programmes

2007-2013

2000+ projects by 2020
Maritime Actions under CEF overview

112 Projects

CEF grants: €1,2 billion

Investments generated: €3.4 billion
Maritime Options under CEF programme:

- **Motorways of the Sea (MoS)** – focus on upgrading maritime links, pilot actions and 'wider benefit' actions

- **Maritime Ports** – focus on upgrading ports' infrastructures

- **Innovation & new technologies** – focus on promoting use of alternative fuels
<table>
<thead>
<tr>
<th>Number of Actions</th>
<th>Actual CEF funding (€ million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Core Network Corridors</td>
</tr>
<tr>
<td>9</td>
<td>Other sections of the Core Network</td>
</tr>
<tr>
<td>1</td>
<td>Projects on Core and Comprehensive</td>
</tr>
<tr>
<td>15</td>
<td>Innovation</td>
</tr>
<tr>
<td>50</td>
<td>Motorways of the Sea</td>
</tr>
<tr>
<td>10</td>
<td>Multimodal Logistics Platform</td>
</tr>
<tr>
<td>2</td>
<td>Nodes of the Core Network</td>
</tr>
</tbody>
</table>

- Core Network Corridors: 420.0
- Other sections of the Core Network: 188.1
- Projects on Core and Comprehensive: 2.9
- Innovation: 95.7
- Motorways of the Sea: 452.2
- Multimodal Logistics Platform: 41.2
- Nodes of the Core Network: 1.2
CEF co-funding rates

**For MoS**
- **30%** for infrastructure works and facilities
- **50%** for studies with pilot activities

Involvement of minimum 2 Member States

**For other priorities (innovation, ports)**
- **20%** for works
- **50%** for studies with pilot actions
Motorways of the Sea Funding Distribution:

<table>
<thead>
<tr>
<th>Motorway Region</th>
<th>Funding Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Sea - Baltic</td>
<td>65,1</td>
</tr>
<tr>
<td>Scandinavian - Mediterranean</td>
<td>64,3</td>
</tr>
<tr>
<td>North Sea - Mediterranean</td>
<td>46,0</td>
</tr>
<tr>
<td>Mediterranean</td>
<td>33,3</td>
</tr>
<tr>
<td>Orient/East-Med</td>
<td>31,5</td>
</tr>
<tr>
<td>Baltic - Adriatic</td>
<td>27,9</td>
</tr>
<tr>
<td>Non pre-identified sections on the Core...</td>
<td>23,9</td>
</tr>
<tr>
<td>Atlantic</td>
<td>16,3</td>
</tr>
<tr>
<td>Rhine - Alpine</td>
<td>12,7</td>
</tr>
<tr>
<td>Other</td>
<td>77,7</td>
</tr>
</tbody>
</table>
CEF Programme

TEN-T Programme

CEF Programme
MoS Funding per DIP Pillar

- Environment (28): 238.3
- Integration/Logistics (17): 163.6
- Human Element/Traffic Management (5): 52.7
Motorways of the Sea – Funding per Priority (€ mn)

- Electric Vessels: 13.2 (1)
- LNG: 168.2 (11)
- OPS: 3.7 (3)
- Scrubber: 51.1 (12)
- SECA Compliance Monitoring: 2.1 (1)

- InCe: 0.8 (1)
- Link: 131.5 (15)
- SuP: 10.1 (1)
## MoS Programme – Pilot Actions

<table>
<thead>
<tr>
<th>Year</th>
<th>Pilot Actions</th>
<th>EU Grant</th>
<th>Investment Generated</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>8</td>
<td>96,490,161</td>
<td>195,046,170</td>
</tr>
<tr>
<td>2015</td>
<td>6</td>
<td>36,475,646</td>
<td>100,226,553</td>
</tr>
<tr>
<td>2016</td>
<td>2</td>
<td>12,734,370</td>
<td>42,507,900</td>
</tr>
<tr>
<td>2017</td>
<td>0</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
<td>145,700,177</td>
<td>337,780,623</td>
</tr>
</tbody>
</table>
Pilot Actions in the MoS Portfolio

- Safety and Traffic Management/Human Element
- Integration
- Environment

- Pilot Activities
- All Actions

![Graph showing pilot actions and all actions for different categories: Environment has the highest action with around 220 million, followed by Integration with around 130 million, and Safety and Traffic Management/Human Element with around 60 million.](image)
Pilot Actions:
Compliance monitoring pilot for Marpol Annex VI
2014-EU-TM-0546-S
Total Budget: € 4,290,629
EU contribution: €2,145.50

Beneficiaries: Finland, Belgium, Netherlands & Sweden

- Resulted in 20,000 (air, ship & fixed) measurements to determine compliance, and where results have been used as prima facie evidence in courts

Duration: January 2014 - December 2016
**Pilot Actions:**
**Zero Emission Ferries 2014-EU-TM-0489-S**

Total Budget: € 26,300,000  
EU contribution: €13,150,000  
Beneficiaries: Denmark & Sweden

- Replace the marine gas oil fuelled propulsion systems of two RoPax ships with pure electricity power provision, in the ports of Helsingør and Helsingborg.

- Provide the OPS facilities in the corresponding ports

Duration: January 2014 - December 2017
ENERGY EFFICIENT AND EMISSION FREE VESSEL – FROM COMPONENT TO VESSEL DEPLOYMENT

• HERCULES-2
  • Fuel flexible, near-zero emission, adaptive performance marine engine

• LEANSHIPS
  • Efficient, less polluting new/retrofitted vessels with end users’ requirements

• E-FERRY
  • The first mid-size 100% electric ferry

• ZERO EMISSION FERRIES
  • A green link across Oresund by converting RoPax ships

Technology readiness levels (TRL)

- TRL 1-2: Principles and formulation
- TRL 3-4: Proof of concept and validation
- TRL 5-6: Validation in real environment
- TRL 7-8: Prototype demonstration and completion
- TRL 9: Proven and operational
Pilot Actions:
STM Validation Project
2014-EU-TM-0546-S

Total Budget: € 42,977,434
EU contribution: € 21,488,717
Beneficiaries: Sweden, United Kingdom, Ireland & Spain

• Establish large-scale test beds for a new Sea Traffic Management in the Nordic region and in the Mediterranean Sea:
  • 300 ships
  • 13 ports
  • 5 shore centres
  • 12 connected simulated centres

• This would result in the piloting of a new route optimisation concept
• Winner SMART4SEA Innovation award

Duration: January 2015 - December 2018
NEW CONCEPTS AND SMARTER TRAFFIC MANAGEMENT – FROM SPECIFIC SERVICE TO SYSTEM DEPLOYMENT

EFFICIENSEA2
ITS services for efficient and safe traffic at sea

NOVIMAR
Vessel platooning controlled by ITS

STM VALIDATION PROJECT
Validation of the target concept of Sea Traffic Management

Technology readiness levels (TRL)

TRL 1-2
Principles and formulation
Basic research

TRL 3-4
Proof of concept and validation
Applied research

TRL 5-6
Validation in real environment
Prototype

TRL 7-8
Prototype demonstration and completion
Scale-up

TRL 9
Proven and operational
Pilot

Demonstration

Deployment
Outcome of CEF Blending2 Call

• Main specificity of these Calls: blending

• "...projects of common interest receiving EU grants from the Connecting Europe Facility – Transport Sector (General envelope) combined with financing from the European Fund for Strategic Investments (EFSI), or the European Investment Bank, or National Promotional Banks, or private sector investors, in order to maximise the leverage of private sector involvement and capital in the delivery of projects..."
# Outcome of Blending Call 2  
(cut-off date April 2018)

<table>
<thead>
<tr>
<th>Blending Call 2</th>
<th>Total</th>
<th>Motorways of the Sea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Budget available</td>
<td>€350 million</td>
<td></td>
</tr>
<tr>
<td>Overall subscription rate</td>
<td>2.94</td>
<td></td>
</tr>
<tr>
<td>Proposals received (eligible)</td>
<td>68</td>
<td>5</td>
</tr>
<tr>
<td>Recommended proposals</td>
<td>42</td>
<td>3</td>
</tr>
<tr>
<td>Selected proposals</td>
<td>35</td>
<td>3</td>
</tr>
<tr>
<td>Total CEF recommended funding</td>
<td>€405 million</td>
<td>€75 million</td>
</tr>
<tr>
<td>Selected Proposals</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Cargo capacity upgrade and LNG bunkering
2017-EU-TM-0166-W

(MoS upgrade of maritime link)

Total Budget: € 132,391,879
EU contribution: € 34,853,564

Beneficiaries: Ystad (Comprehensive, SE) & Swinoujscie (Core, PL)

- **LNG Bunkering vessel (Swinoujscie)**
- Infrastructure (Breakwater, Port Basin, 2 ferry berths, dredging: Ystad)
- **LNG propulsion system for a RoPax vessel sailing the route**

Duration: April 2018 - December 2021
TWIN-PORT III
2017-EU-TM-0135-W

Total Budget: € 71,190,850
EU contribution: € 21,357,255

Investments: City and Port of Helsinki (FI), Port of Tallinn (EE)

- Port of Helsinki: multimodal terminal for Bus traffic, side ramp, Extension of the AP Pier
- City of Helsinki: Last mile connections on 6 sections
- Port of Tallinn: Construction of sewerages, safety upgrades
- Retrofitting of 5 vessels OPS & Automooring

Duration: January 2020 - December 2021
BlueHUBS: LNG and CNG Supply Chains upgrading Core TEN-T Ports in Eastern Mediterranean
2017-EU-TM-0149-W

(MoS wider benefit)

Total Budget: € 65,963,400
EU contribution: € 19,789,020

Investments: Limassol (Cyprus), Heraklion & Piraeus (Greece)

• Two 3,000m³ LNG Bunkering vessels
• Three Mobile LCNG Stations serving port heavy duty vehicles & buses
• Eight LNG tanker trucks

Duration: January 2020 - December 2021
Future Outlook: 2019 Call

- Work program for the Annual call was adopted October 12th
- No Motorways of the Sea priority

- 65 mln euro dedicated to the comprehensive network:
  - rail, road and inland waterway cross-border sections
  - connections to and the development of maritime ports

- Publication expected December 2018 / January 2019
Future Outlook

• Decarbonisation and greening shipping remains a key pillar of CEF interventions, to this effect more investments in LNG and alternative fuel reducing technologies is needed.

• INEA sees a need to prioritise upgrading of maritime links (Corridors & hinterland connections integrated in logistics chain),

• Brexit may result in a need to strengthen European Short Sea Shipping routes

• **MoS Call expected in Q1 2020**
Thank you for your attention!

jaroslaw.kotowski@ec.europa.eu