



European flagship Action for cold ironING in ports



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

EALING: European flagship Action for cold ironING in ports

The future of onshore power supply: The “EALING” project

SEAFUTURE

2023

Presentation of the project

Activity 1 - Harmonised Framework for the electrification of the participating TEN-T maritime ports

Activity 2 – Maritime fleet adaptation

Activity 3 - Technical studies for the electrification infrastructure of the participating TEN-T maritime ports

Activity 4 - Environmental studies

Activity 5 - Clean power supply plans and tender documents

Activity 6- CBA and Financial blending schemes

Keep informed!

Presentation of the action



Description of the project

The **EALING** Action is a study proposing a concrete approach towards the establishment of a suitable framework for the transition to electrification for at least 16 of the EU maritime ports in different sea basins that decided to adapt to the new regime of alternative fuels utilization in the maritime sector:

- Mediterranean Sea (*Valencia, Barcelona, Ancona, Trieste&Monfalcone, Venice&Chioggia, Piraeus, Rafina and Koper*);
- Black Sea (*Constanta, Varna and Burgas*);
- Atlantic Sea (*Gijon, Huelva, Leixoes, Azores and Dublin/Cork*)

Main objectives of the project

The main objectives of the **EALING** project are focusing on the following:

- Ensuring that a common harmonised and interoperable framework is brought forward in order to facilitate the implementation phase of SSE infrastructure in the ports of the consortium, in line with the EU technical, legal and regulatory framework;
- Ensuring the port to vessel compatibility in the TEN-T Maritime Network, for vessels calling at the ports of the consortium;
- Leading all the necessary technical, financial, legal and environmental studies to prepare and accelerate the effective launch of cold ironing and electric bunkering equipment in the ports.

16 EU ports:

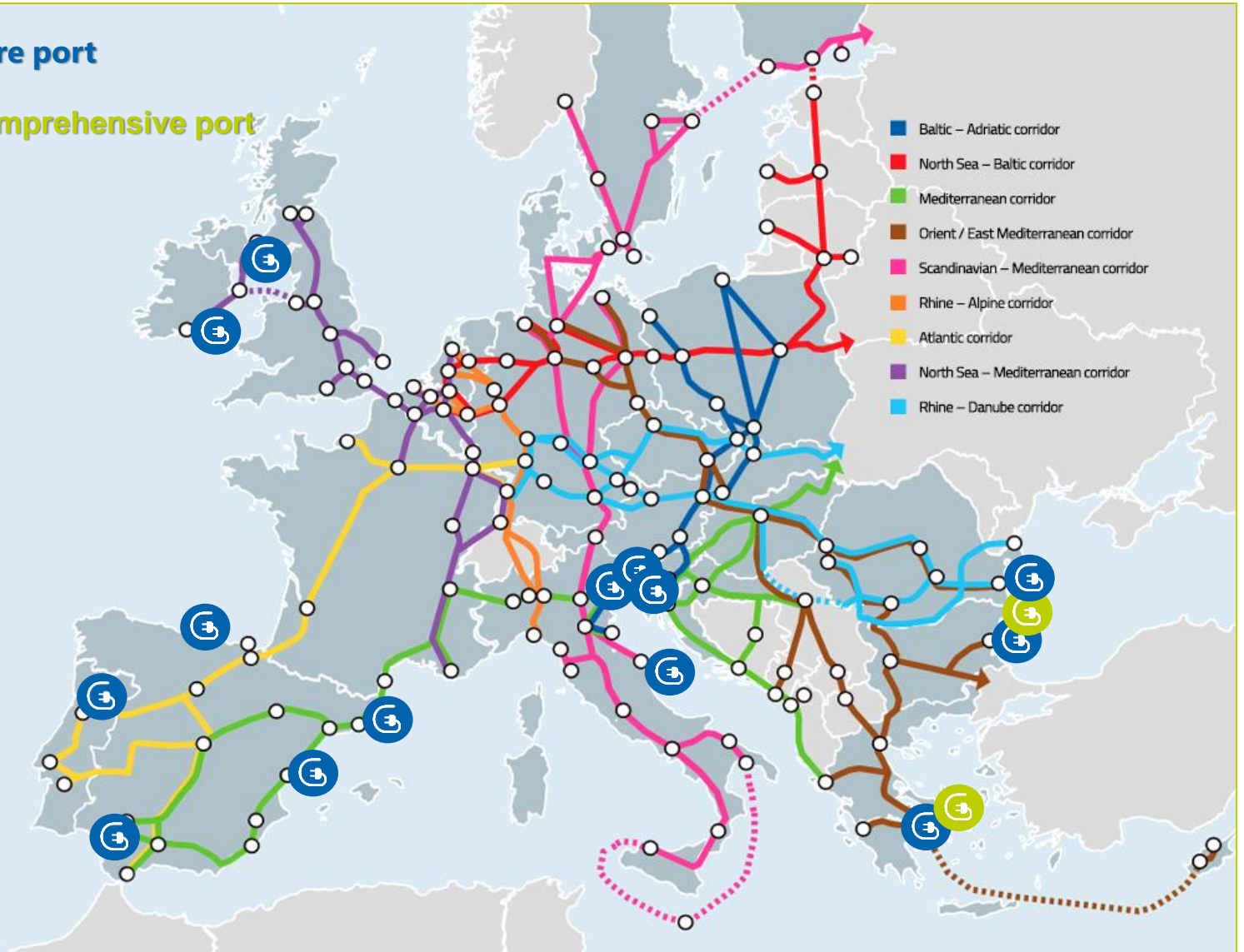
- Port of Valencia (Spain)
- Port of Barcelona (Spain)
- Port of Huelva (Spain)
- Port of Gijon (Spain)
- Port of Venice and Chioggia (Italy)
- Port of Ancona (Italy)
- Port of Trieste & Monfalcone (Italy)
- Port of Burgas (Bulgaria)
- Port of Varna (Bulgaria)
- Port of Constanta (Romania)
- Port of Piraeus (Greece)
- Port of Rafina (Greece)
- Port of Koper (Slovenia)
- Port of Leixoes (Portugal)
- Ports of Açores (Portugal)
- Port of Dublin and / or Cork (Ireland)



Core port



Comprehensive port



Activities 1 and 2: EU wider benefit activities

ACTIVITY 1
Harmonised
Framework for
the electrification
of the
participating TEN-
T maritime ports

ACTIVITY 2
Maritime fleet
adaptation

Activities 3, 4, 5 and 6: linked to the 16 EU ports

ACTIVITY 3
Technical
studies for the
electrification
infrastructure
at ports

ACTIVITY 4
Environmental
studies

ACTIVITY 5
Clean power
supply plans
and tender
documents

ACTIVITY 6
Cost-benefit
analysis and
Financial
blending
schemes

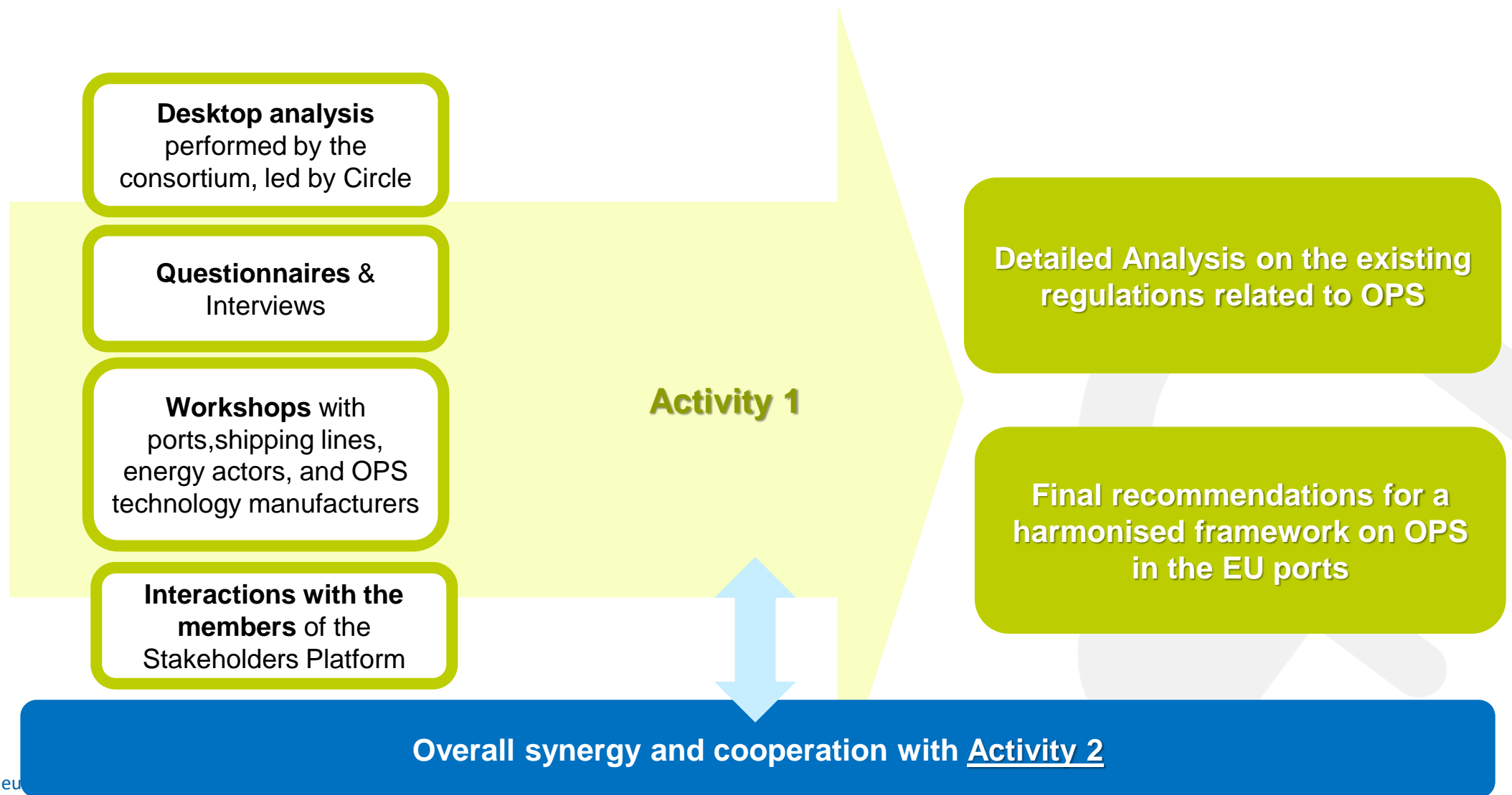
ACTIVITY 7
Communication
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Disseminati
on

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Activity 1

Harmonised Framework for the electrification of the participating TEN-T maritime ports

ACTIVITY 1: Harmonised Framework for the electrification of the participating TEN-T maritime ports





EALING West Med Macro Regional Workshop

By Valeria Burlando | July 26, 2021 | No Comments

EALING West Med Macro Regional Workshop will be held on 30th September (4:30 p.m. – 6:30 p.m.) within the SEA FUTURE Convention in La Spezia Navy Base.

[DOWNLOAD HERE THE AGENDA OF EALING SESSION](#)

[REGISTER HERE TO TAKE PART IN THE CONFERENCE](#)

Specifically the Session dedicated to EALING is part of the wider Conference "Driving the change in shipping & logistics: the EU funding opportunities in the programming period 2021-2027" aiming at deepen the three key topics below:

- FUNDING OPPORTUNITIES AND FINANCIAL TOOLS FOR THE MARITIME INDUSTRY
- TOWARDS ZERO EMISSION SHIPPING
- DIGITAL AND TECHNOLOGICAL INNOVATION IN TRANSPORT INDUSTRY

EALING Macro Regional Stakeholder Workshop will be focused on presenting the first results coming from the Technical Workshops and Stakeholders Consultations with Ports, Shipping Lines and Classification Societies carried out in the first part of the Action. After the introduction about the proposed requirements on OPS for ports in the upcoming proposal for AFID revision by DG MOVE and a focus on the Technical Studies on OPS by EMSA, the project contents will be discussed by the representatives of the project partners and leaders of Activity 1 "Harmonised Framework for ports" and Activity 2 "Maritime fleet adaptation"

Then a technological session with OPS providers will anticipate the open discussion about the OPS adoption considering administrative, financial and technical aspects.

[DOWNLOAD HERE THE AGENDA OF EALING SESSION](#)

[REGISTER HERE TO TAKE PART IN THE CONFERENCE](#)

Four Ports Onshore Power in Baltic Seaports



Best Practices exchange – EALING joins forces with Four Ports

By Valeria Burlando | August 4, 2021 | No Comments

OPS procurement strategy and national legislation that enable or is a barrier for OPS are the key topics that will be addressed during the common workshop on OPS that will be held as hybrid event hosted by the Port of Aarhus on 10th September.

The restricted event is the first joint action for the CEF-Funded projects: EALING | European Flagship Action for Cold Ironing in Ports | Four Ports | ONSHORE POWER IN BALTIC SEAPORTS with the final aim to share best practices and information coming from the studies concerning the adoption of OPS in the respective geographical areas covered.

After a presentation of the state of the art from the Baltic Ports concerning the procurement strategies for OPS and the legislative national frame, an open discussion with the EALING members will follow.

The overall aim of the cooperation is to face the challenge of the electrification of maritime transport to move towards a more competitive and sustainable TEN-T Maritime Network in the future.

Find out more information about the CEF-Funded Project FOUR PORTS here <https://four-ports.eu/>

Coordinating Ops

The Online Consultation for Ports and Terminals started

By Valeria Burlando | May 15, 2021 | No Comments

As part of the Activity 1 "Harmonised Framework for the Electrification of the participating TEN-T maritime ports", EALING Action is carrying out an Online Consultation dedicated to Ports and Terminals. The questionnaire has the specific objective to collect information from the Port Authorities and Terminals that have planned possible OPS solutions in their ports/terminals, gathering information concerning technical aspects related to OPS: specific regulatory and administrative topics at EU/ national level and other aspects such as financing, barriers at construction level, training needs.



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

EALING Questionnaire for Ports & Terminals

CONTEXT - In the context of the European Green Deal, the "EALING" Motorways of the Sea Action contributes to the Global Project aiming to accelerate the transition to electrification and deployment of Onshore Power Supply (OPS) solutions in at least 16 EU maritime ports.

EALING Workshop with Shipping Lines – Towards a harmonised onshore power supply development in Europe

By Valeria Burlando | May 10, 2021 | No Comments



The EALING Workshop with Shipping Lines – Towards a harmonised onshore power supply development in Europe represents the beginning of the interaction path between EALING project, Institutions and industry for the definition of a common harmonised and interoperable framework for the development of OPS in Europe. It is the first EALING Workshop dedicated to the interaction with Ports on the same topics.

The workshop with Shipping Lines – that was a restricted event – had 105 registrants and, with the aim to highlight the stakeholders perspectives.

Indeed the Institutional Session, chaired by Jérôme Glantenoay (INEA Project Manager) with the participation of the Coordinator for Motorways of the Sea, Pernille Soerensen (Policy Officer, DG MOVE – Unit D1 – Maritime Policy), Ricardo Batista (EMSA, Project Officer) and Sotiris Raptis (Maritime Safety & Environment Directorate), highlighted the importance of a continuous cooperation among ports and shipowners towards green decarbonisation.



Webinar – Shore power in the Baltic and Mediterranean – development & challenges

By Ealing Project | February 17, 2021 | No Comments

The Webinar, organised on 11 February by BPO in cooperation with MEDports Association, was a look at the current state and future of shore power development in the Baltic and Mediterranean Sea regions with an analysis of the Baltic Sea Region as a model region for shore power implementation, as well as a close look at the Mediterranean, presenting itself as the logical next step for the development of this technology.

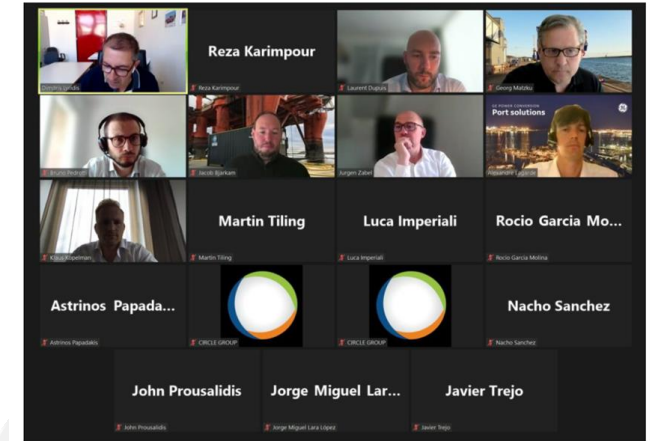
Part of Valencia, Port of Barcelona and Circle Group, that are part of the EALING Consortium, took part into the event. Specifically Alejandro Pico, Technical manager of the project, delivered a presentation of EALING Studies as flagship initiative and Motorways of the Sea wider benefit action for the definition of a harmonised framework for OPS in Europe taking into account operational, environmental, technical, regulatory and socio economic aspects.

The cooperation among Baltic Sea, Mediterranean, Black Sea and Atlantic Sea regions can be the path for a pan European global harmonised approach.

EALING – OPS Solution Providers Workshop | 12th July 2022

By Valeria Burlando | July 14, 2022 | No Comments

During this OPS Solution Providers Workshop high-profile speakers from the Solution Providers were invited to present their point of view on Onshore Power Supply. Among them: Siemens, ABB, Wärtsilä, Cavotec, GE Power, PowerCon, Danfoss, Iguus, Wabtec, and Shorelink. Together with EALING Project Partners, a lot of useful insights emerged from the discussions during the workshop, and will be included in the Project Reports.



EALING Workshop with Associations – Towards a harmonised onshore power supply development in Europe

By Valeria Burlando | February 26, 2021 | One Comment

The Workshop with Associations – Towards a harmonised onshore power supply development in Europe was held on 25th February and it represents the beginning of the interaction path between EALING project, Institutions and Associations, in the process of defining a common harmonised and interoperable framework for the development of OPS in Europe.

The workshop – that was a restricted event – had 80 participants and, with 2:30 of fruitful discussion, it was a great opportunity to gather the stakeholders perspectives.

The Institutional Session, chaired by Jérôme Glantenoay (INEA Project Manager) was dedicated to deepen policy priorities and guidelines thanks to the interventions by Prof. Kurt Bodewig (EU Coordinator for Motorways of the Sea), Jorgen Bjerre (DG Maritime Policy) and Ricardo Batista (EMSA, Project Officer).

A short session dedicated to the project overall presentation and Activity 1 details "Harmonised framework for the development of participating TEN-T maritime ports", the workshop was dedicated to deepen the Associations perspectives on OPS as a key element to achieve decarbonisation for shipping and a greener future for maritime transport.

The cooperation among European Sea Ports Organisation (ESPO), European Community Shipowners' Association (ECSA), Baltic Ports Organisation (BPO), MEDPorts Association, European Federation of Inland Ports (EFIP) and Federation of European Private Port Companies and Terminals (FEPORT) gave their contribution in order to have a global approach in shaping the OPS development framework.

The OPS solution to reach a greener future in shipping is a concrete opportunity, to be pursued in an ambitious and realistic way.

ACTIVITY 1: Harmonised Framework for the electrification of the participating TEN-T maritime ports



Milestone 4 - Detailed analysis on the existing national/port regulations directly or indirectly related to shore side electricity supply

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ACTIVITY 1: Harmonised Framework for the electrification of the participating TEN-T maritime ports



Milestone 6

Final recommendations for a harmonised framework on OPS in EU ports

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Recommendations for a harmonized framework

➤ **Policy & Legal Scope**

- *Simplify and harmonise administrative burden at the national, regional, and local levels, facilitate the involvement of port authorities in the development and operation of their electricity distribution system, etc*

➤ **Technical Scope**

- *SSE connection at vessels, Tender processes, Regulations and standards, Assessment of power demand*

➤ **Economic scope**

- *Develop a Cost-Benefit Analysis before implementing any SSE infrastructure, Create additional funding mechanisms, Increase the percentage of funding in existing mechanisms, etc*

➤ **Environmental scope**

- *Promote the creation of an environmental certificate addressed to shipping lines, encourage the registration of ships in the Clean Shipping Index (CSI) for vessels equipped with SSE*

➤ **Social Scope**

- *Incentivise, at the European Commission level, interaction, and collaboration between all the stakeholders, enhance public awareness, create at the port level a specific working group involving all the operational stakeholders, etc*

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Activity 2

Maritime fleet adaptation

ACTIVITY 2: Maritime fleet adaptation

OBJECTIVE 1

Analyse the standards relevant to shipside installation for OPS for the vessels operating in the ports of the consortium.

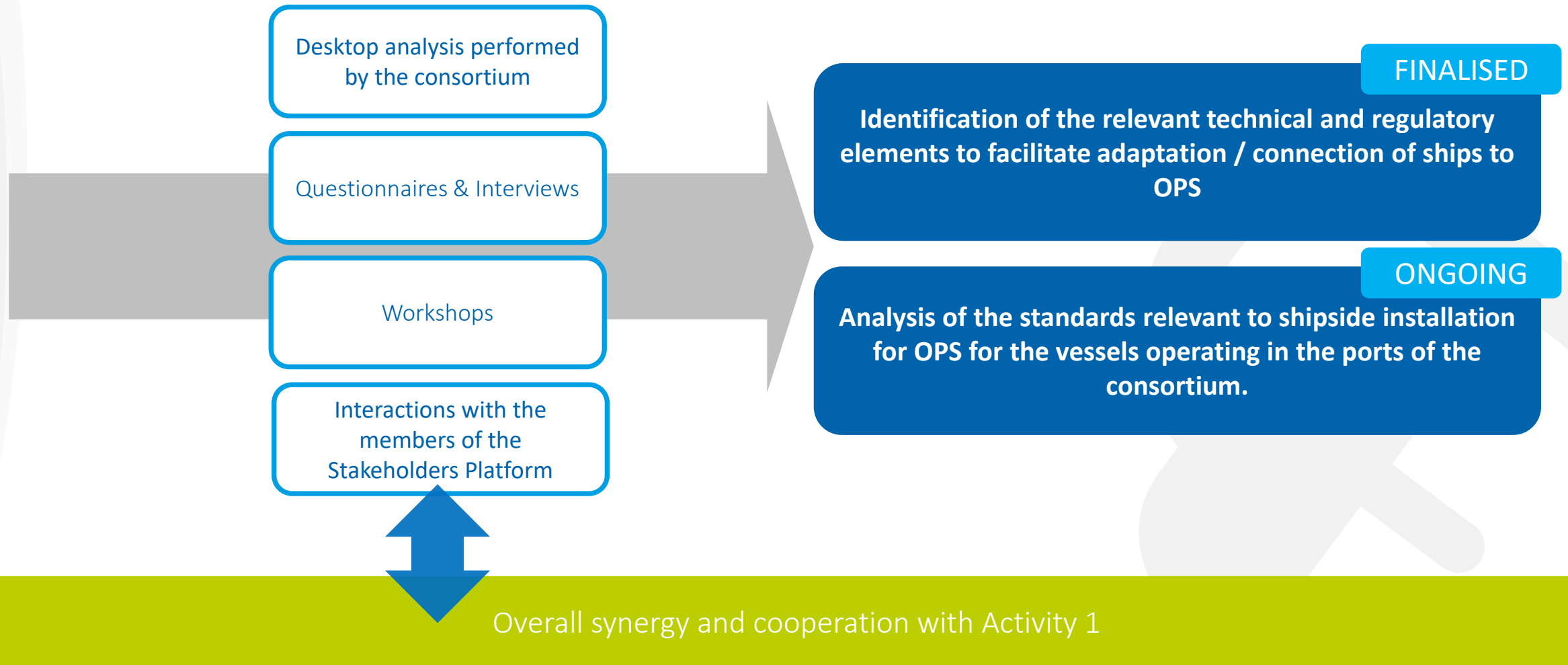
Harmonise the port to vessel compatibility in each of the ports of the consortium. Identify gaps than need to be further analysed and assessed.

OBJECTIVE 2

Identify technical and regulatory elements to facilitate the connection of ships to OPS. Perform several case studies by assessing specific ship types regarding the onboard required retrofitting.

Determine best retrofitting practices. Provide operational recommendations, taking IMO guidelines as a reference, for a harmonized framework on fleet electrification adaptation, leading to a final proposal to IMO.

ACTIVITY 2: Maritime fleet adaptation



ACTIVITY 2: Maritime fleet adaptation



Deliverable D2.1

Report on the analysis of the standards relevant to shipside installation for shore side electricity supply

The document reflects only the author's view and the Agency is not responsible for any use that may be made of the information it contains.



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Thanks!



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Discover more at:

www.ealingproject.eu



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