



## AutoMated Vessels and Supply Chain Optimisation for Sustainable Short SEa Shipping

### D.6.3: Sustainability model

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## List of Acronyms

<b>Abbreviation / acronym</b>	<b>Description</b>
ALICE	Aliance for Logistics Innovation through Collaboration in Europe
API	Application Programming Interface
EC	European Commission
EDIFACT	Electronic Data Interchange for Administration, Commerce and Transport
EEA	European Economic Area
EU	Europe
CO2	Dioxide Carbon
CSS	Cascading Style Sheets
GDPR	General Data Protection Regulation
GHG	Greenhouse Gas
GUI	Graphical User Interface
ID	Identifier
LSP	Logistics Service Provider
MLP	Matchmaking Logistics Platform
MoS	Motorways of the Sea
ORM	Object Relational Mapping
SMEs	Small and Medium-sized Enterprises
SSS	Short Sea Shipping
TEN-T	Trans-European Transport Network
TEU	Twenty-foot Equivalent Unit
UI	User Interfaces
URI	Uniform Resource Identifier
VAT	Value Added Tax
WP	Work Package
XML	Extensible Markup Language

## Executive Summary

The MOSES Matchmaking Platform Sustainability Model presents a comprehensive and dynamic approach towards improving logistics management across Europe. This platform, emerging from a development process within Work Package 6 (WP6), is prepared to become a benchmark in sustainable and efficient logistics solutions. It sums up the entire journey from conceptualization to the approach of real-world application and stakeholder engagement, emphasizing its user-centric, sustainable, and efficient design.

A significant part of the platform's development has been the focus on a long-term operational strategy, which involves analyzing existing platforms to identify market barriers and best practices within the logistics sector. This analysis has yielded vital insights, such as the need for consolidating transportation services for enhanced cost-efficiency and environmental performance, and a crucial shift from road transport to intermodal solutions like rail and waterways for sustainable freight cargo distribution.

Throughout its development, continuous stakeholder engagement and real-time data utilization have been instrumental in ensuring the platform's relevance and adaptability. The launch of the platform's first prototype, developed from insights from Task 6.1 and detailed in Deliverable D6.2, marks a significant milestone. It is set to undergo validation through an open call for real logistics data, designed to attract a diverse range of external stakeholders critical for fine-tuning the platform's functionalities.

The MOSES project is dedicated to ongoing improvement, with initial tests on the alpha version leading to enhancements that ensure secure data storage and privacy protection. This commitment to innovation and adaptability positions the MOSES platform as a catalyst for change in European logistics. By addressing challenges such as the underutilization of Short Sea Shipping (SSS) services and enhancing stakeholder communication, the platform aims to foster a comprehensive ecosystem that supports end-to-end supply chain visibility, data sharing, and automated procedures. It seeks to drive a modal shift in European logistics, aligning with broader sustainability goals and the EU's Motorways of the Short Sea Shipping concept.

As the project progressed, the MOSES platform has been continuing to evolve, guided by stakeholder feedback and in tune with the evolving demands of the logistics industry. The ultimate goal is to establish a seamless, integrated, and sustainable logistics framework that enhances the role and efficiency of European Short Sea Shipping, contributing positively to the overall efficiency and effectiveness of the European transport network. This document represents a guidepost for the continued advancement and optimization of the MOSES platform, ensuring its impact and relevance in the ever-changing landscape of European logistics.

## 1. Introduction

This chapter sets the stage for the MOSES Matchmaking Platform, outlining its mission to improve logistics management across Europe with a sustainable, efficient, and user-centric