



PRESS RELEASE

Tuesday, 14th July 2020

Wageningen, netherlands

MOSES: AutoMated Vessels and Supply Chain Optimisation for Sustainable Short SEa Shipping

MARIN is delighted to announce its participation in the eagerly awaited MOSES project, officially launched virtually in July 2020.

MOSES is an EU-funded research and innovation action focused on maritime transport that addressed the call MG-2-6-2019, Sub-topic 2, of the Horizon 2020 Programme. The project brings together a consortium of 17 partners from 7 EU countries, united in their vision to improve the modal split for Short Sea Shipping (SSS) in the European container supply chain. In this project, the MOSES team sees the opportunity to achieve beyond state-of-the-art, applied know-how and technological developments that, otherwise, would be unfeasible and extremely costly to develop and pursue on their own.

MOSES is coordinated by the National Technical University of Athens (NTUA) and aims to significantly enhance the SSS component of the European container supply chain by addressing the vulnerabilities and strains that relate to the operation of large containerships. MOSES will follow a two-fold strategy, which consists of reducing the total time to berth for TEN-T Hub Ports and stimulating the use of SSS feeder services to small ports (hub and spoke traffic) that have limited or no infrastructure.

To achieve its objectives MOSES will implement the following innovations:

- i. For the SSS leg: an **innovative, hybrid electric feeder vessel** designed to match dominant SSS business cases;
- ii. For DSS ports, the adoption of an **autonomous vessel maneuvering and docking scheme (MOSES AutoDock)**
- iii. A **digital collaboration and matchmaking platform (MOSES platform)**

MARIN looks forward to the targeted integration of advanced technologies like automation, low-emission propulsion systems and potential wind assist contributions for concrete competitive Short Sea Shipping(SSS) applications. The results are demonstrated on scale in due course within MARIN's facilities.

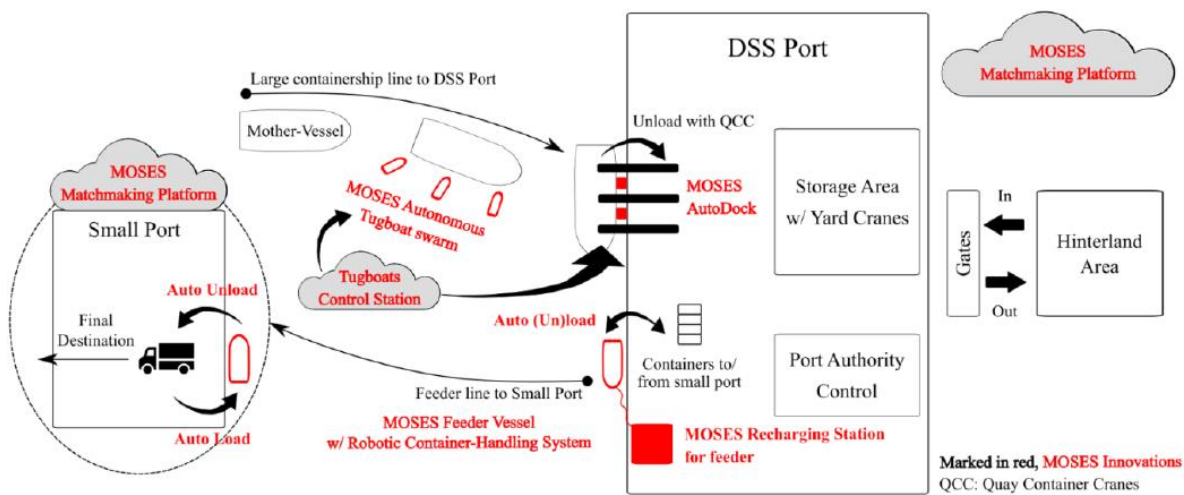


Figure 1: Overview of the MOSES innovations.

MOSES is an ambitious project that bears significant innovation potential in the context of European SSS uptake. Its innovation potential covers both vessel design aspects as well as software tools and accompanying governance models to improve related logistics processes. Bridging the scientific, industrial, naval, logistics and port operations domains, MOSES provides fertile ground for sharing skills and expertise that prompts transfers of technology and embodies true synergies among the partners.

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Editor Notes

Duration:	01 July 2020 – 30 June 2023 (36 months)
Total Costs:	EUR 8.122.150
EC contribution:	EUR 8.122.150
	<i>This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 861678. The content of this document reflects only the authors' view and the European Commission is not responsible for any use that may be made of the information it contains.</i>
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Partners:	<ol style="list-style-type: none"> 1. NATIONAL TECHNICAL UNIVERSITY OF ATHENS (NTUA) 2. ENGITEC SYSTEMS INTERNATIONAL LIMITED (ESI) 3. CORE INNOVATION AND TECHNOLOGY OE (CORE) 4. NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO (TNO) 5. STICHTING MARITIEM RESEARCH INSTITUUT NEDERLAND (MARIN) 6. ELLINIKI ENOSI PLIOKTITON RIMOULKON, NAYAGOSOSTIKON, ANTIRIPANTIKON KAI PLION IPOSTIRIXIS IPERAKTION EGKATASTASEON (SAT) 7. DANAOS SHIPPING COMPANY LIMITED (DANAOS) 8. FUNDACION DE LA COMUNIDAD VALENCIANA PARA LA INVESTIGACION, PROMOCION Y ESTUDIOS COMERCIALES DE VALENCIAPORT (VPF) 9. DNV GL HELLAS SA (DNVGL) 10. ASTILLEROS DE SANTANDER SA (AST) 11. PIRAEUS CONTAINER TERMINAL SINGLE MEMBER SA (PCT) 12. DIMOTIKO LIMENIKO TAMEIO MYKONOU (MHM) 13. NAYTILIAKES METAFORIKES KAI EPIKOINONIAKES EPIXEIRISEIS SEABILITY EPE (SEAB) 14. TRELLEBORG RIDDERKERK BV (TRELL) 15. CIRCLE SPA (CIRCLE) 16. MACGREGOR SWEDEN AB (MCGRSWE) 17. PROZERO INTERNATIONAL APS (TUCO)
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