

“THE GREATEST DANGER FOR MOST OF US IS NOT THAT OUR AIM IS TOO HIGH AND WE MISS IT, BUT THAT IT IS TOO LOW AND WE REACH IT.”

Michelangelo

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Alliance for Logistics Innovation through Collaboration in Europe

## The best way to predict the future is to co-create it!

*Source: President Abraham Lincoln*

**THANK you!**

  
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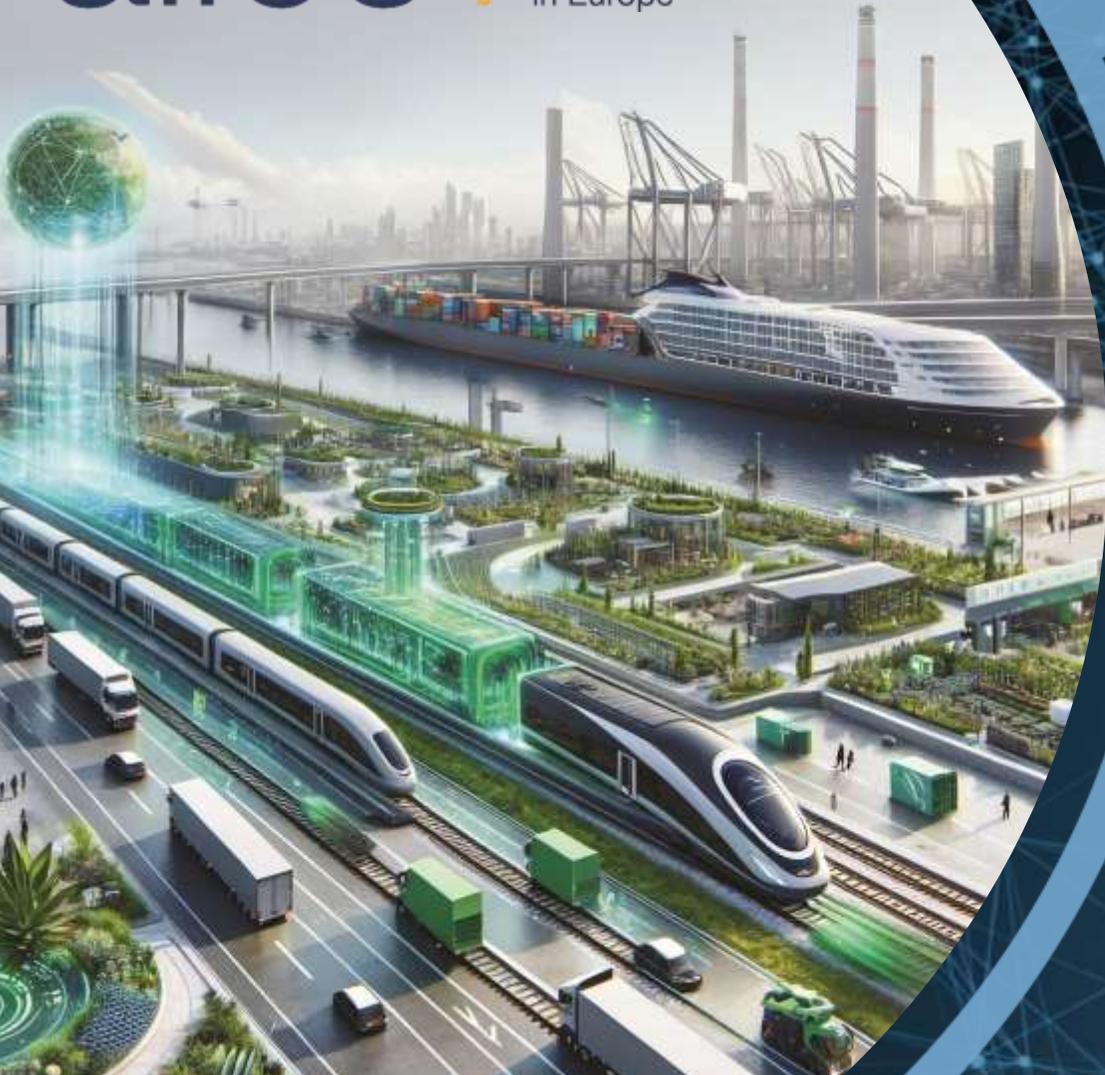
  
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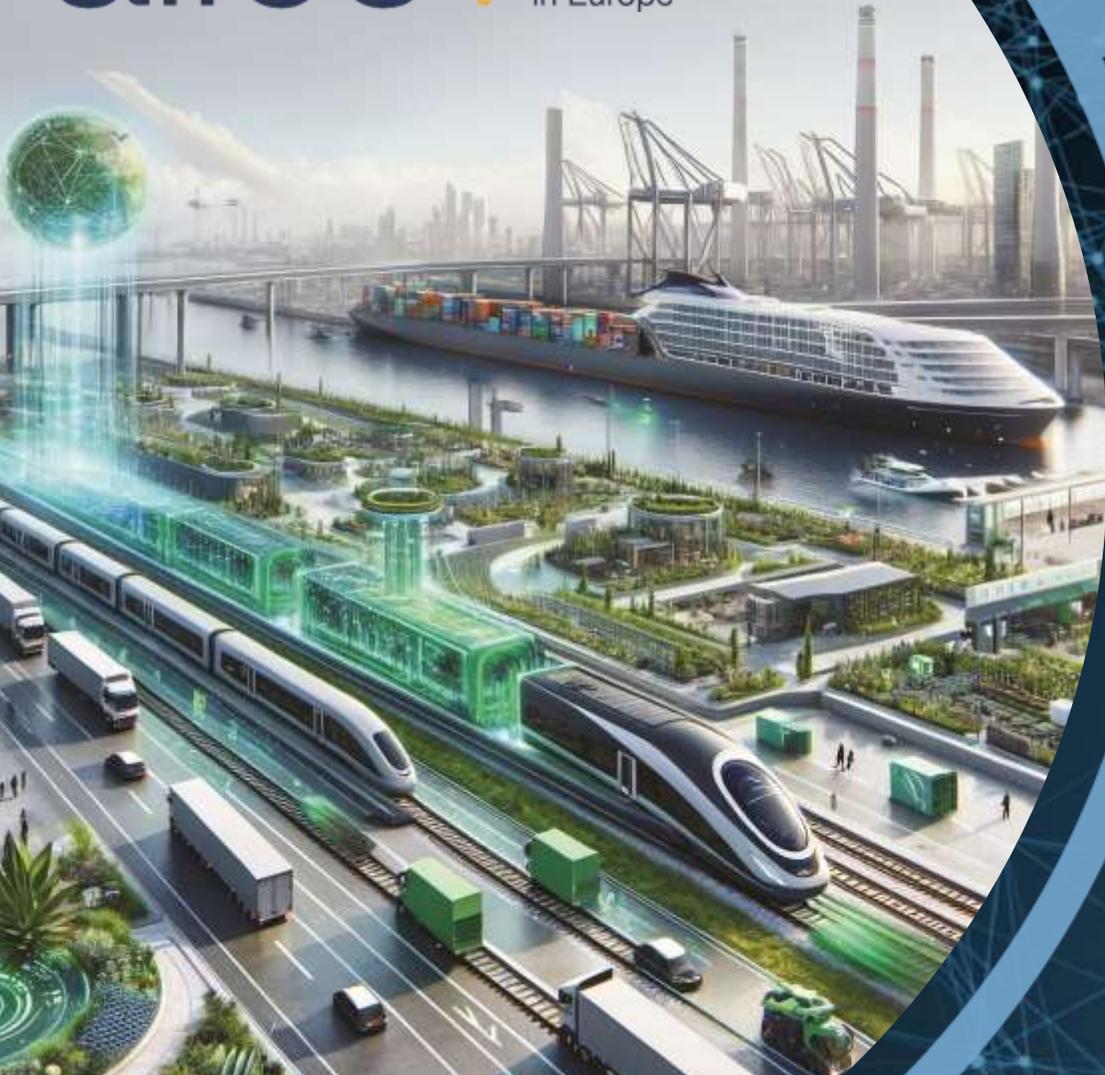
**ALICE is the association of leading logistics innovation companies**

**We connect companies, research centres, and policymakers to develop innovations for zero-emission, automated, efficient, agile, resilient and circular supply chains inspired by the Physical Internet.**

The European Technology Platform ALICE

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in Europe



**[SEAMLESS Webinar]**  
**Safe and Intelligent  
Maritime Navigation  
Solutions for Short-sea  
and Inland waterway  
environments**

The European Technology Platform ALICE

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TG2 • Webinar

## SEAMLESS: Safe and Intelligent Maritime Navigation Solutions for Short-sea and Inland waterway environments

20 March 2026

10:00 to 11:30

TU Delft



SEAMLESS

© ALICE

### Rules for the webinar



#### The session will be recorded

This is in case you or other ALICE members wish to have a look afterwards\*



#### Add your name and company

to identify yourself



#### Keep your microphone muted when the meeting starts.

You can introduce yourself when entering the meeting so you do a test (i.e. everybody can hear you)



#### Share your questions to the speakers in the GoTo chat

You are also welcome to share thoughts, suggestions or relevant information on the subject



#### Keep your cameras off if you are not speaking



#### The use of AI-based tools is strictly prohibited during the webinar

To protect the privacy and rights of all participants

## You may ask any question on these rules before the start!

*\*A link to the video recording and pdf presentations will be shared with participants through e-mail*



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**Waiting for other  
participants to  
join... 😊**

# AGENDA

- **Welcome and introduction.** Tomasz Dowgielewicz ([ALICE](#))
- **Intelligent, Rule-aware, and Fault-Tolerant solutions for Seamless Short-sea and Inland Waterway Navigation.** Nikos Kougiatsos (Postdoctoral Researcher, Safe-NET Research Group, [Delft University of Technology](#)) and Vasso Reppa (Associate Professor, Safe-NET Research Group, [Delft University of Technology](#))
- **Discussion session.**
- **Identifying risks for Waterborne Digital Systems: The challenges of using established techniques in new settings.** Konstantinos Louzis (PhD Candidate/ Research Engineer, Maritime Risk Group, [National Technical University of Athens](#))
- **Discussion session.**
- **Wrapping.** Tomasz Dowgielewicz ([ALICE](#))





## Who is **ALICE** ?

ALICE, Alliance for Logistics Innovation through  
Collaboration in Europe

**not-for-profit association**, registered in Brussels, since 2014

Recognized by the European Commission  
as a European Technology Platform<sup>1</sup>

1) European Technology Platforms, ETPs are industry-led stakeholder fora that develop short to long-term research and innovation agendas and roadmaps for action at EU and national level to be supported by both private and public funding. More Info on ETPs [http://www.etp-logistics.eu/wp-content/uploads/2021/03/Logistic-TP-recognition-SWD\\_2013\\_272\\_F1\\_STAFF\\_WORKING\\_PAPER\\_EN\\_V2\\_P1\\_735480.pdf](http://www.etp-logistics.eu/wp-content/uploads/2021/03/Logistic-TP-recognition-SWD_2013_272_F1_STAFF_WORKING_PAPER_EN_V2_P1_735480.pdf)



## ALICE membership bringing an holistic approach → All key logistics stakeholders represented!

Type of Organization	Members	EU/International Associations
Shippers & Retail	P&G L'ORÉAL proffimus CHEP A Brambles Company PEPSICO COLRUYT GROUP Unilever Nestlé MICHELIN	ESC cefic EPCA GS1 ELUPEG
Logistics Service Providers, Carriers, Courier and Postal operators, Freight Forwarders & Shipping	Gebrüder Weiss GEODIS BORUSAN LOJISTIK FM LOGISTIC Sesé sennder SMILE PICKUP Posteitaliane URBICO GRUBER LOGISTICS COOGNOTTO FERCAM P&O LABILITY INNOVATION DIAKINISIS an post bpost LA POSTE einride ogel GEOPOST	RU dcsa EALTH CLECAT ECG The Association of European Service Logistics
Ports, Hubs, Real Estate companies, Intermodal terminals & Transport/Energy Infrastructure	Port of Rotterdam Port de Barcelona Puerto de Algeciras ECO SLC TRAFIKVERKET SORA imt	EPA INE European IWT Platform
Transport and industry vehicles, packaging & material handling	VOLVO LOGIFRUIT PONERA KION PARKUNLOAD Renault Group ELES stryker	eucar acea
Information and Communication Technologies & Consultancy	MARLO ALSIC SILENT SENSORS PRODUCTBLOKS GreenRouter DAC Ocetic vltm URBAN RADAR emisia SMART HODOS DASSAULT SYSTEMES verity infogestweb RuleX TRANSPOREIN HACON minervas ISOIN SmartLoc Ecotri Globis Multitel prodevelop bax PCPT LUXMOBILITY nilecom USYNCR0 MIXMOVE capillar CO BESTEVEER CARGO ON PTV GROUP Hoopo FACTUAL OPTIT GEA SUPPRECHT CONSULT interlogistix FLOX GTEXXO AI CARGO Transmetrics weenlo PEOPLE VIANOVA ALOT SOLVESALL	ERTICO
Regional & National Logistics Clusters & Associations	Euralogistic CLOSER CPLSA DIGITAL HUB Logistics Initiative Hamburg VIL LOGISTICS ALTA POM AirCargo Belgium Mobility & Logistics	EPA Smart Freight Centre
Research and technology Centers	Fraunhofer CIRCOÉ ITCOR BIBA LITO ita TU Delft TNO innovation for life toi	ectri ELA European Logistics Association
European Technology Platforms / PPPs	WATERBORNE ERRAC ETRAC EFFRA MANUFACTURE-EU	
Member States and innovation Funding*	Department for Transport TKI DINALOG	bm vti VINNOVA

\*Involved in ALICE Mirror Group



## About ALICE

ALICE gathers over 218 members and over 700 experts from companies, research organisations, logistics clusters, associations and public bodies across Europe. Members engage in thematic groups, contribute and participate in EU projects, and co-develop strategic roadmaps.

### Focus areas

#### 5 THEMATIC GROUPS (TGs)

**TG1.** Efficient and Low Emissions Assets and Energy

**TG2.** Corridors, hubs and Synchromodality

**TG3.** Systems and Technologies for Interconnected Logistics

**TG4.** Supply Network Coordination and Collaboration

**TG5.** Urban Logistics

### With ALICE our members:



#### **Influence EU funding & policy**

*Shape Horizon Europe priorities & logistics policy*



#### **Connect with 700+ experts**

*Industry, academia & public authorities*



#### **Access 150+ R&I projects**

*Solutions for Physical Internet, data exchange, Digital Twins & more*



#### **Achieve sustainability goals**

*Collaborate on solutions for carbon neutrality*

# Programmes, activity fields and projects

## Efficient and Low Emissions Assets and Energy

Road Transport electrification

Automated road transport

GHG emissions measurement and reporting (SFC)

## Corridors, hubs and synchronomodality

Europe's Rail and ERRAC

5<sup>th</sup> Transport Mode

Waterways

Ports & hubs

Resilient Transport Networks

## Systems and Technologies for Interconnected Logistics

Data exchange, DTLF and eFTI

5G & 6G

Artificial Intelligence

Digital Twins

## Global Supply Network Coordination & Collaboration

ALICE EXPRESS

Increase use of rail

Applied Collaboration Streams

## Urban Logistics

Governance and regulations

Clean & alternative fleet

Urban data

Innovative operations

Consumer engagement

EC Expert Group on Urban Mobility (EGUM)

Proposals

Projects

ZEFES

CLEVER

FLEXMCS

MultiReload

Cristal

REMUNET

AUTOSUP

Seamless

DELPHI

DISCO

LOGeHUBS

MODI

MACBETH

STRENGTH-M

PIONEERS

SARIL

FOREMAST

AUTOMOTIF

URBANE

GREENTURN

Shift2Zero

### Innovation uptake & Knowledge Management

Innovation uptake strategy

ALICE logistics innovation awards

R&I projects Liaison Programme

Knowledge Platform

### Influence

EU policy monitoring

Horizon Europe Funding Calls

FP 10

Partnerships & networks

### Membership engagement Value creation for members

Follow up meetings with members

Funding opportunities

Women in Logistics

Logistics Clusters

Networking

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<sup>1</sup>Key events

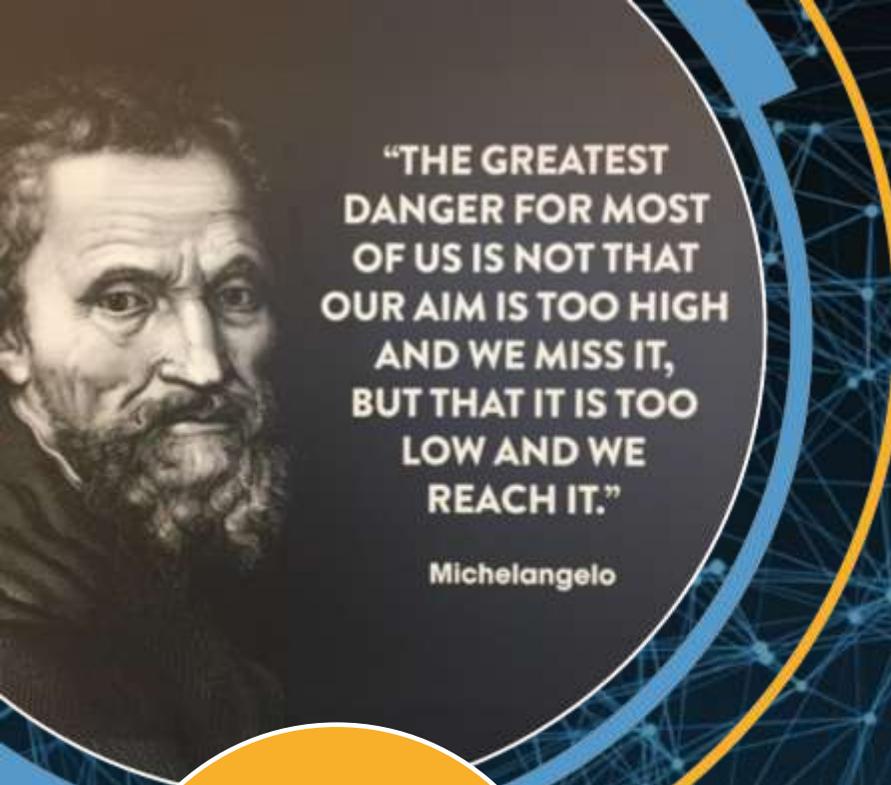
ALICE Brokerage

T&L Munich

ALICE Summit

IPIC 2025 & 2026

TRA 2026



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# Towards the Realisation of Maritime Logistics Redesign through Automation

## The SEAMLESS Project



Online, 05 June 2025



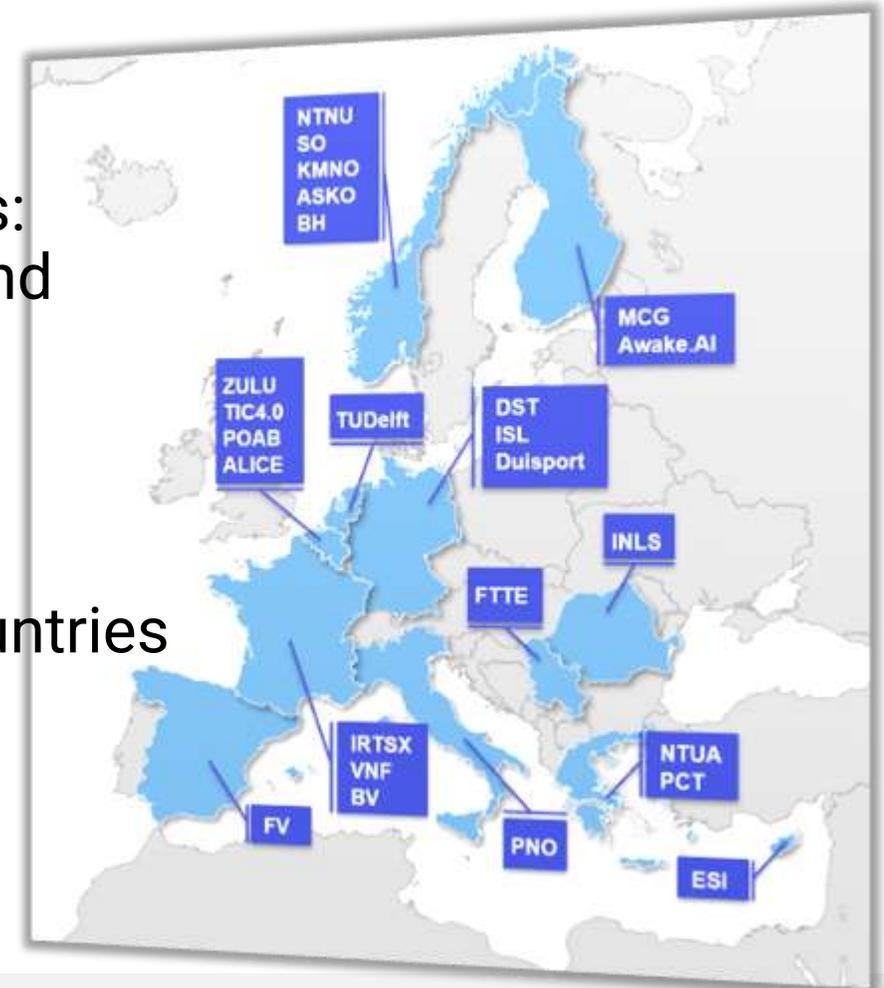
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# Facts about the SEAMLESS Project

- **Project Title:** Seamless, Efficient, and Autonomous: Multimodal Library of European Short sea and inland Solutions
- **Duration:** 01/01/2023 – 31/12/2026 (48 months)
- **Budget:** ~15 million €
- **Consortium:** 26 Main Beneficiaries from 12 EU Countries



# SEAMLESS Mission Statement

- SEAMLESS is about developing a waterborne **autonomous freight transport service**
- To realise this service, SEAMLESS will provide solutions through:
  - The SEAMLESS Building Blocks (technology-oriented)
  - The SEAMLESS enablers (desktop studies)
- The Building blocks will be demonstrated at full scale in real world scenarios\*

\*SEAMLESS Call Topic description:  
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl5-2022-d5-01-05>

# Mission Statement

**SEAMLESS** will develop and adapt missing building blocks and enablers into a fully automated, economically viable and cost-effective, waterborne freight feeder loop service for SSS (Short Sea Shipping) and IWT (Inland Waterways Transport)\*

**SEAMLESS** will develop and integrate autonomous systems in a way that ensures safe, resilient, efficient, and environmentally friendly operation to shift road freight movements towards waterways\*

\*SEAMLESS GA

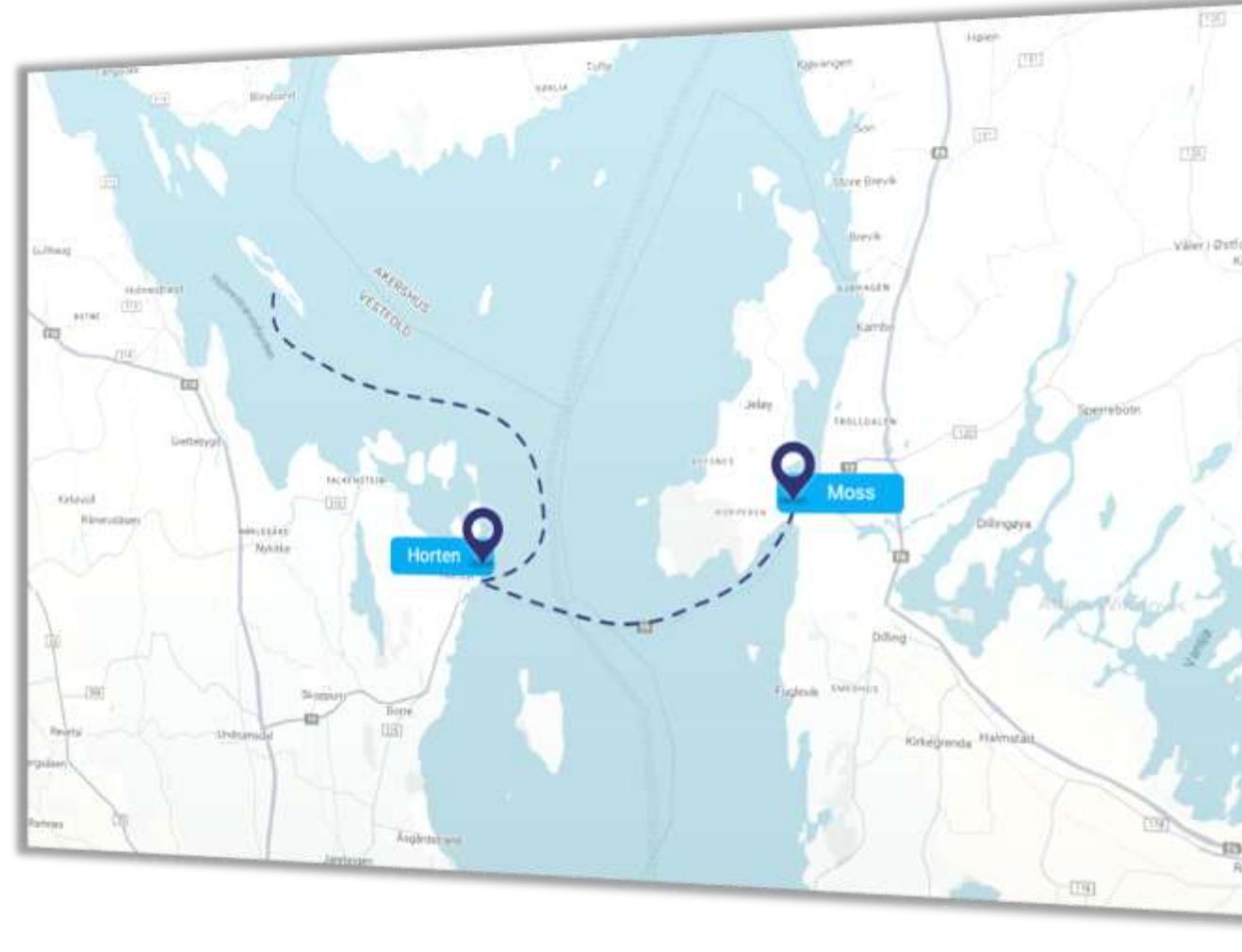


# SEAMLESS Physical Demonstrations

## Central European Demonstrations (IWT)



## Northern European Demonstrations (SSS)



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# SEAMLESS Mission Statement: Building Blocks

## DockNLoad

- Cargo handling
- Mooring
- Stowage planning
- Port calling

## Modular vessel and operations concepts

- Low-attention Remote Operation Centre (ROC) design
- Vessel control systems
- Communication systems

## ModaINET

- EMSW formalities
- Resilient logistics engine



# SEAMLESS Mission Statement: Enablers

## Regulatory framework

- Identification of challenges and regulatory gaps
- Simplification of complex administrative procedures
- Policy recommendations for the seamless service

## Design/approval

- Framework for operational safety assessment of autonomous port infrastructure technologies
- Optimal powerplant selection/Rapid prototyping

## Impact assessment

- Environmental impact assessment
- Social Acceptability

## Business models

- Disruptive business models
- Cost Benefit analysis



# SEAMLESS Impact

## Environment

- Synchronomodal dynamic management of the logistics network
- Techno-economic assessment of green configuration scenarios for autonomous vessels

## Safety

- Identification of regulatory gaps and policy recommendations
- Enhance cyber-threat catalogues
- Reduce time for administrative procedures by 60%

## Business

- Reduce cargo handling costs by 20%
- Investment cost comparable to road systems





# Thank you



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23/03/2026

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