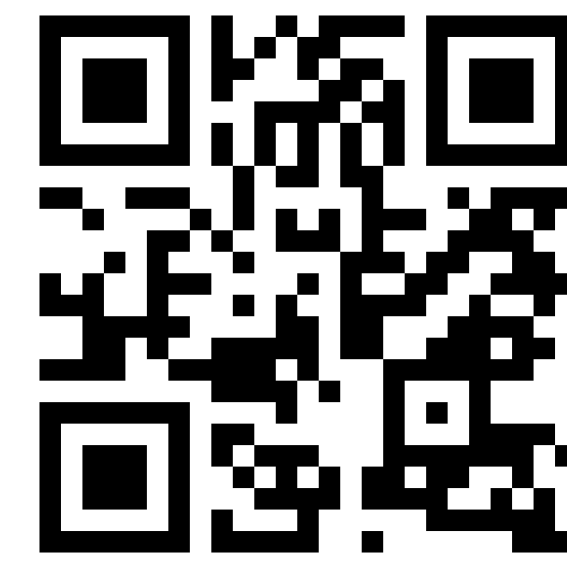




SEAMLESS



www.seamless-project.eu

Objectives

BUILDING BLOCKS

B1 & B2

Tailored autonomous cargo shuttles, which will operate 24/7 in remote control centres.

Cooperation between autonomous vessels and automated & autonomous shore-side infrastructure.

B3

Redesigned logistics system that will facilitate seamless freight flows through the supply chain by minimising delays in intermodal nodes.

ENABLERS

E1 & E2

Validation of the building blocks and demonstration of the transferability in selected use cases.

E3

Development of novel business models and identification of gaps and challenges in the current regulatory framework related to autonomous vessel operation.

Seamless will develop and adapt missing technology 3 building blocks and 3 key enabling technologies into a fully automated, economically viable, cost-effective, and resilient waterborne freight feeder loop service for Short Sea Shipping (SSS) and/or Inland Waterways Transport (IWT). Autonomous systems in a way that ensures safe, resilient, efficient, and environmentally friendly operation to shift road freight movements towards waterway will be developed and integrated.

CHALLENGES & BARRIERS:

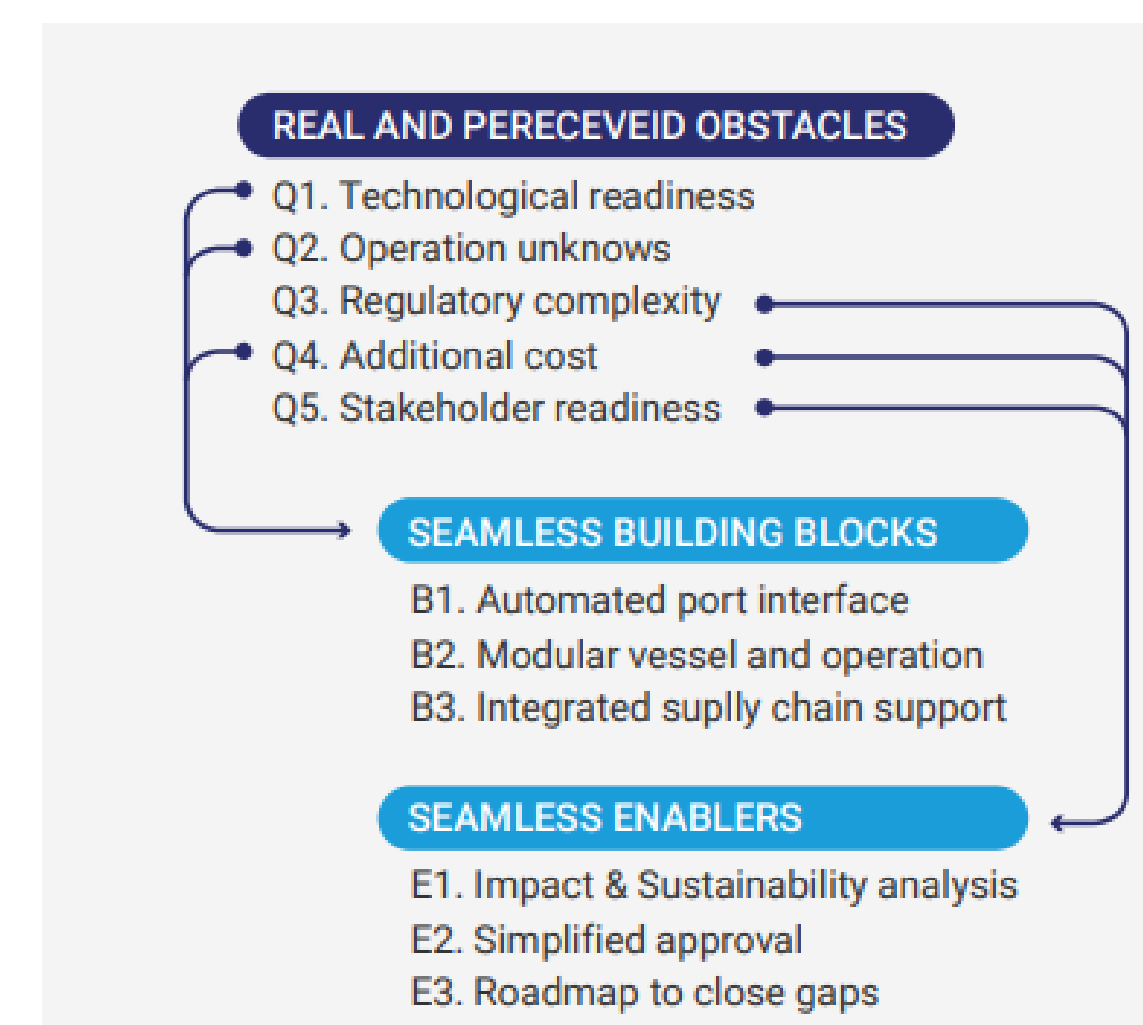
Technological readiness: issues related to complexity and cost of vessel and automation of the port interface.

Operational unknowns: less investigated and relate mainly to how remote control is exercised for ship, port, and port equipment.

Regulatory complexity: investigation needed to reduce high costs in doing risk analysis.

Additional costs: related to automation as well as cost-effective of remote control.

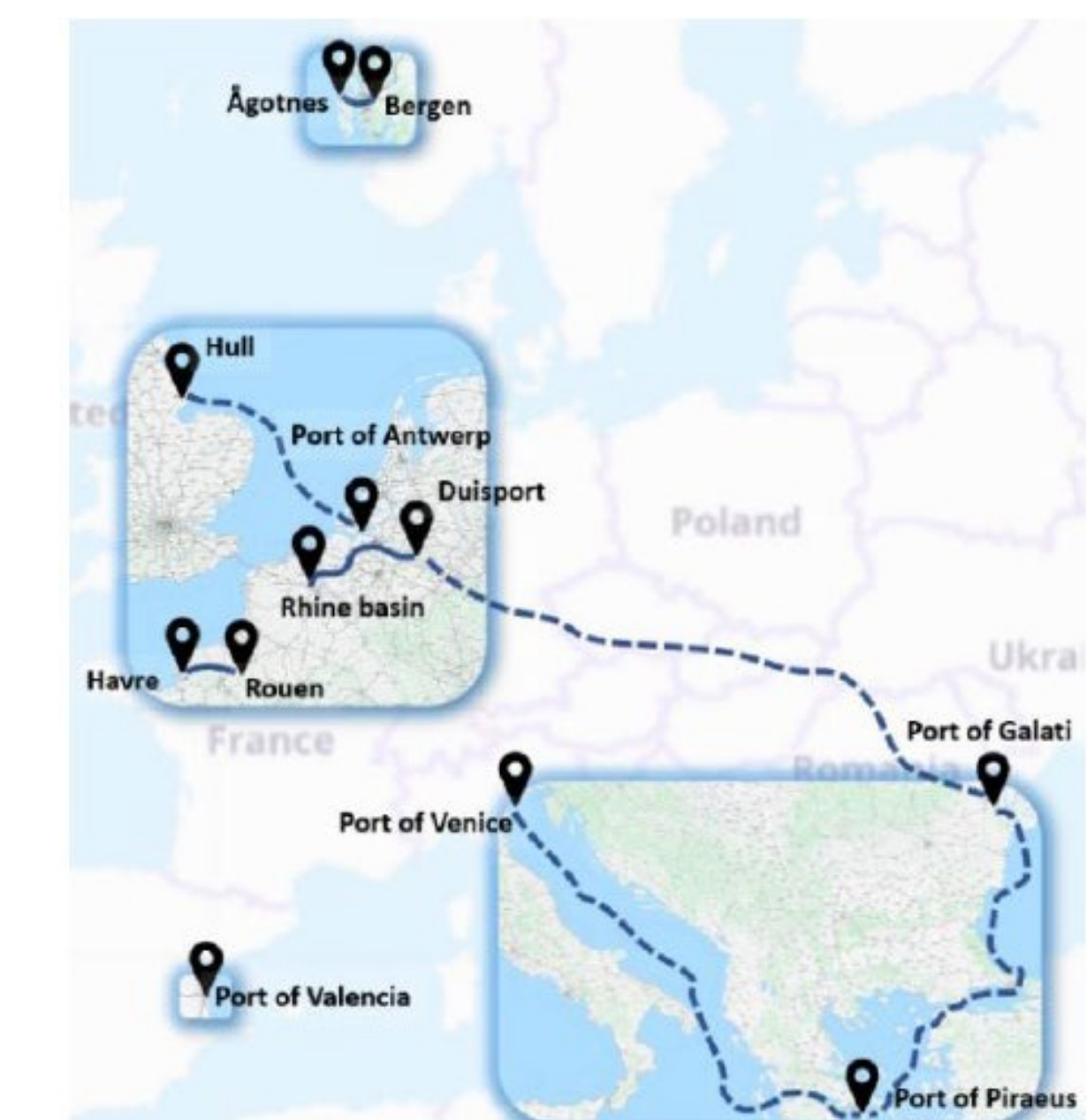
Stakeholder readiness: general public acceptance and investment willingness for ship operators are crucial.



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