



# FINLAND – TOWARDS AUTONOMOUS MARITIME FUTURE

FINLAND AIMS TO OPERATE THE  
WORLD'S FIRST AUTONOMOUS  
MARITIME ECOSYSTEM BY 2025.



Finland is leading the way towards a smarter future with a goal of having an autonomous maritime ecosystem by 2025. Finnish companies offer a wide variety of solutions for advancing the digital transformation.

## DIGITAL FORERUNNER AND SMART MARITIME PIONEER

Finland has a long history of delivering smart and environmentally friendly high-tech maritime solutions. Finland has one of the largest shipbuilding subcontractor networks in the world, with over 1000 suppliers. Finland has a legislation that allows testing of autonomous vessels.

Finland is globally recognized as a digital forerunner and smart maritime pioneer. Digital solutions help maritime companies around the world to not only increase efficiency and optimize processes, but also create new value and business models. Digitalization in marine logistics result as lower capital and operating expenditure through better efficiency, reliability, safety and sustainability.

## KEY FIGURES

EUR  
**13**  
BN

TURNOVER OF  
FINNISH MARINE  
CLUSTER

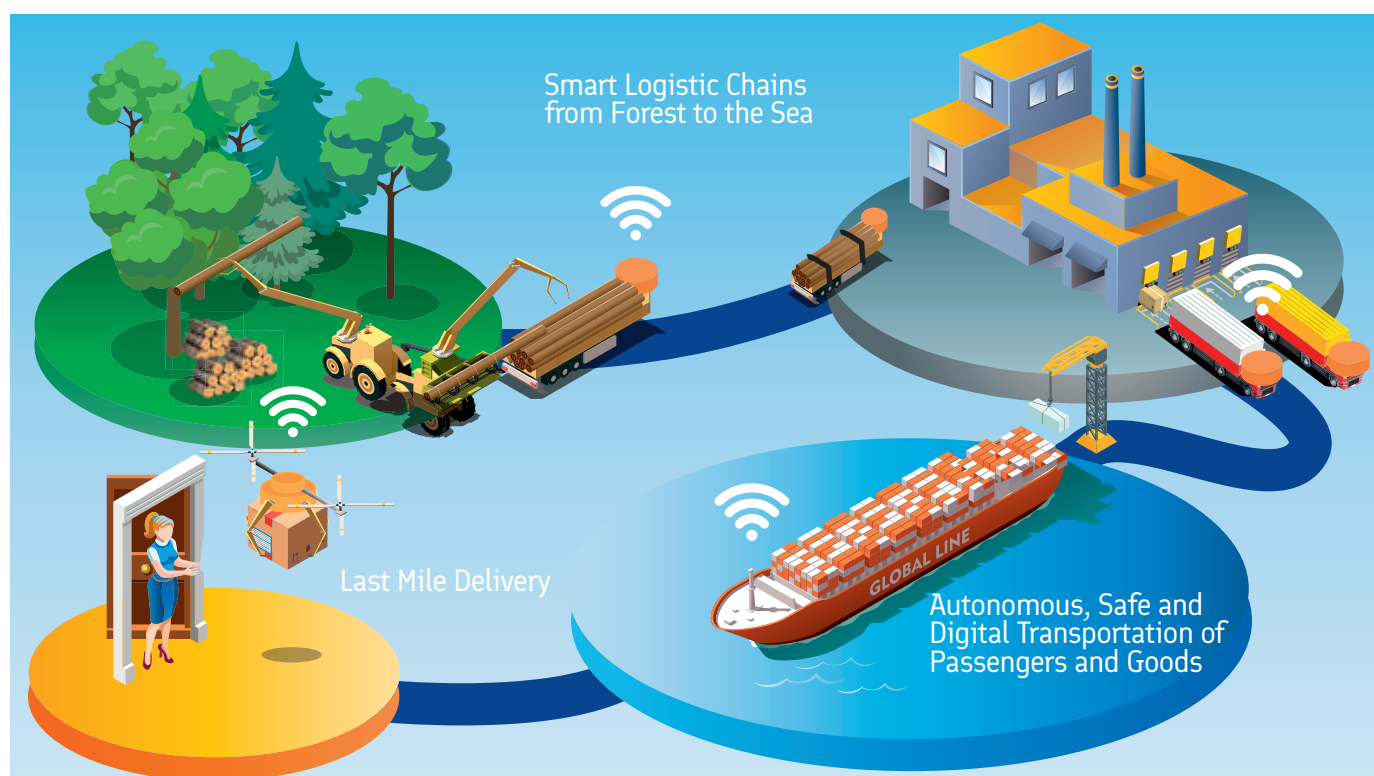
**#1**

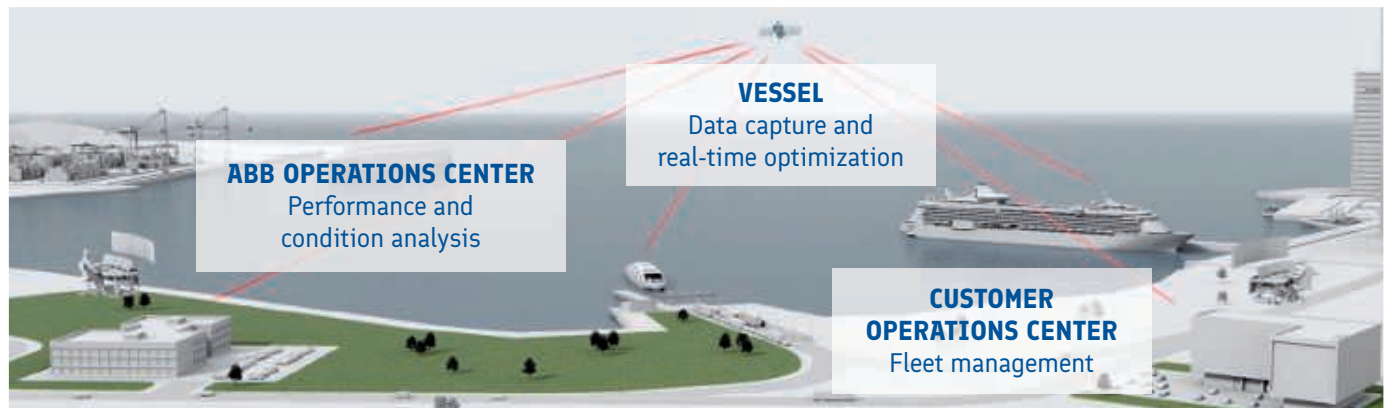
COUNTRY IN BUILDING  
THE MOST ENERGY-  
EFFICIENT CRUISE  
VESSELS

**#1**

COUNTRY IN  
POLAR SHIPBUILDING  
AND DESIGN

## FROM FOREST TO SEA





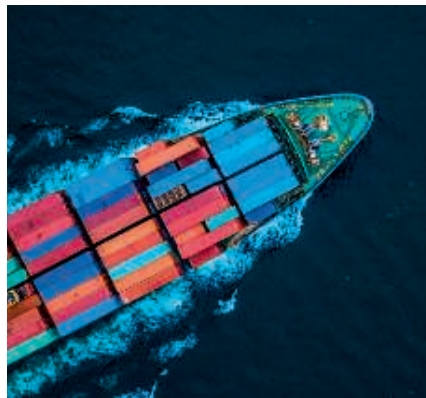
## WORLD'S FIRST LNG-POWERED ICE BREAKER

Finland is the only nation in the world with a solid supply chain from research, design, building, operating and maintenance of icebreakers. The world's first LNG-powered ice breaker Polaris was built in Finland. This unique vessel is able to use both LNG and low sulphur diesel oil as fuel. The use of LNG significantly reduces carbon emissions, thus making Polaris the most environmentally friendly diesel-electric icebreaker in the world.



## ONE SEA

One Sea is an open, high-profile ecosystem with a primary aim to lead the way towards an operating autonomous maritime ecosystem by 2025. The collaboration gathers together leading marine experts and is a strategic combination of top research, state-of-the-art information technology and business. Autonomy will enhance the benefits of digitalization for all the players in maritime industry.



## ELECTRIFICATION OF VESSELS

Finnish maritime cluster delivers systems for full electric and hybrid vessels and fast charging and develops wireless charging.



## WORLD'S FIRST FULLY AUTONOMOUS FERRY

Finland pioneered the world's first fully autonomous ferry to carry passengers. The Falco ferry can navigate between two ports using sensor data fusion and artificial intelligence to detect objects. Docking is fully automated and no intervention from the crew is required.



## MORE INFORMATION

### Business Finland: Maritime

<https://www.businessfinland.fi/en/do-business-with-finland/explore-finland/maritime-and-offshore/in-brief/>

### Business Finland: Digitalization

<https://www.businessfinland.fi/en/do-business-with-finland/explore-finland/ict-digitalization/>

### Finnish Marine Industries

<https://meriteollisuus.teknologiateollisuus.fi/en/finnish-marine-industries-0>

### ONE SEA

<https://www.oneseaecosystem.net/>

## BUSINESS FINLAND

Business Finland is the Finnish innovation funding, trade, investment, and travel promotion organization.

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