



# PRIORITIES FOR AUTONOMOUS SHIPS

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# Some comments to ongoing projects

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- Focus on technology
- Ice navigation is an interesting problem
- ML in ship dynamics: See also VesselAI project in EU (start Jan. 2021)
  - <https://cordis.europa.eu/project/id/957237>

# Norway: Two small short sea projects on order



Photo: Yara Porsgrunn

## Yara Birkeland

- Fertilizer for export
- Replace 40 000 trucks/year
- 100-150 TEU, 70 m x 15 m
- Batteries – Fully electrical

## ASKO Maritime AS

- Connects wholesale warehouses at the opposite sides of the Oslo fiord
- Part of a zero-emission transport system. Battery powered.
- Two 16-trailer RORO vessels, crewed initially, uncrewed later.



Image: ASKO/Kongsberg



# EU projects



The project has received funding from the European Union's Horizon 2020 research and innovation program under Grant Agreement N°815012.



Demonstration project  
Budget > 30 MEUR

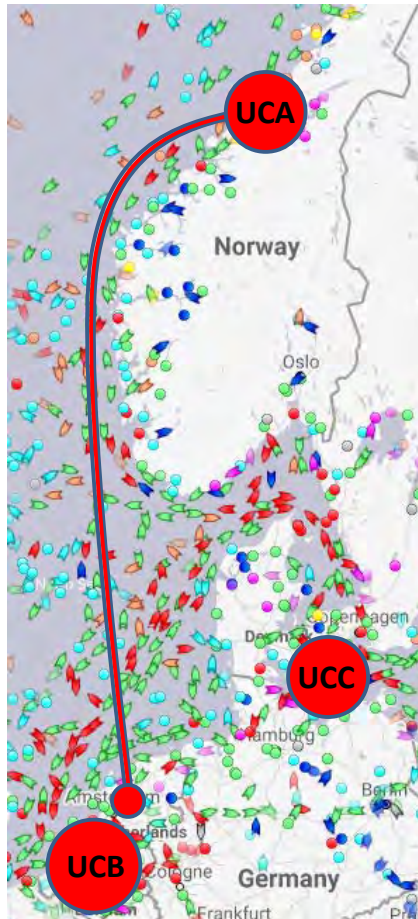


Blue Line Logistics



Eidsvaag

Concept study  
Budget 7.5 MEUR



The project has received funding from the European Union's Horizon 2020 research and innovation program under Grant Agreement No 859992.

<https://www.autoship-project.eu/>

<http://aegis.autonomous-ship.org/>



Research-based innovation centre with co-funding from the Norwegian Research council

Duration: 8 years

Starting budget: 25 MEUR

# Network activities



<http://nfas.autonomous-ship.org>



[www.autonomous-ship.org](http://www.autonomous-ship.org)

National and international networks

<https://www.autonomysummit2.com/>



International conferences



International standardization

# Some important challenges

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- Good business cases and system designs
- Design and approval regimes
- Appropriate human-automation task sharing – RCC design
- Testing of new technology for sensing and control
- Ship maintenance for longer voyages
- Coexistence autonomous and manned ships



Technology for a better society