

# MIDWAY ALIGNMENT OF THE BOTHNIAN CORRIDOR

A FULLY INTEGRATED TRANSPORT SOLUTION  
WITHIN THE TEN-T NETWORK



Midway Alignment of the Bothnian Corridor is a vital, year-round transport connection between Sweden and Finland. The project includes a complete transport system for both goods and passengers

[midwayalignment.eu](http://midwayalignment.eu)  
[info@midwayalignment.eu](mailto:info@midwayalignment.eu)

[facebook.com/kvarkenlink](https://facebook.com/kvarkenlink)  
#MTALK @MidwayAlignment



Co-financed by the European Union  
Trans-European Transport Network (TEN-T)

## MAIN PHYSICAL PARAMETERS OF THE FERRY:

- > Overall length 150m, Length b.p. 141m
- > Breadth 25m/23,6m
- > Design draught 5,65m
- > Deadweight 2 565 T, gross tonnage 20 368 T
- > Design speed 20/16kn
- > Main propulsion power 12 MW
- > Two bow thrusters, one aft tunnel thruster
- > Gas electric propulsion with electric battery
- > Ice class 1A Super

## MAIN DETAILS OF PASSENGER SERVICES:

- > For 800 passengers
- > 53 passenger cabins, 204 beds
- > Public area services: buffet (280px), à la carte restaurants (48px), café (190px), bar (252px), shop, semi-private booths (33pcs), conference facilities (130px + 3 smaller meeting rooms), sun deck, play room. On main deck either:
  - Trucks 665 lm including 60lm of oversized cargo with 6,3 meters of free height.
  - Or cars 1300 lm of which 280 lm on hoistable car deck



## THE BEAUTIFUL ARCHIPELAGO AND THE VARIETY IN PASSENGER VOLUMES HAVE BEEN TAKEN INTO CONSIDERATION IN THE FERRY CONCEPT

THE ENVIRONMENTAL FOOTPRINT, AS WELL AS OPERATIONAL EXPENDITURES, ARE MINIMIZED BY THE OVERALL DESIGN

- The hull design is optimized for this route to survive in harsh and icy winter conditions, as well as on shallow water. Simultaneously, local impact, such as erosion due to wash waves, can be minimized.
- The power generation takes place by gas fuelled engines, which are connected to the electric batteries. Such hybrid solution improves efficiency and reduces emissions of CO<sub>2</sub>, SO<sub>x</sub> and NO<sub>x</sub> significantly.
- Additionally, the batteries can be charged or discharged at port. The batteries are also perfect enablers for green energy sources, such as solar panels, propulsion braking power, or other renewable sources that are optional in the next design phase.

## FLEXIBLE AND RELIABLE YEAR-AROUND CARGO AND PASSENGER CONNECTION OVER THE KVARKEN

- Transportation capacity covers a high variety of cargo including transports of special and oversized goods. This functionality generates large environmental and operational cost savings when compared to other available transport routes.
- Large conference facilities serve business partners and business travelling. This also provides a research and meeting platform for the universities and other research institutes on both sides of the Kvarken.
- The ferry offers an attractive, quick and unique passenger experience with a wide range of services, such as restaurant and hotel services. The image of the ferry captures also the main expectations of the identified customer groups. Two examples are large packed-ice panorama windows and semi-private “booths”.

# PROJECT FINANCING & PARTNERS

Midway Alignment is financed by municipal, regional and national financiers from Finland and Sweden, private companies and European Union TEN-T funds.

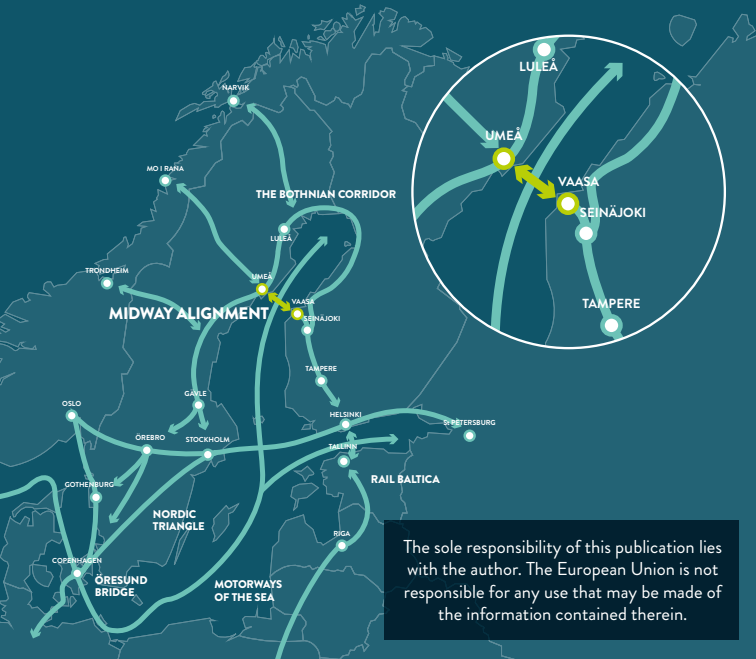
## PROJECT PHASES

### PHASE 1: 2012–2015

- Preparatory activities and feasibility studies
- Concept development (improving the transport link and land/port infrastructure)
- Design of the new ferry (incl. use of environmentally friendly alternative fuels and sufficient icebreaking capacity)
- Budget: MEUR 20.7

### PHASE 2: 2016–2018

- Building of the ferry and the landbased infrastructure
- Construction (incl. alternative fuels transportation and storage)
- Implementation of the logistics system and operations
- Reporting of results



The sole responsibility of this publication lies with the author. The European Union is not responsible for any use that may be made of the information contained therein.