



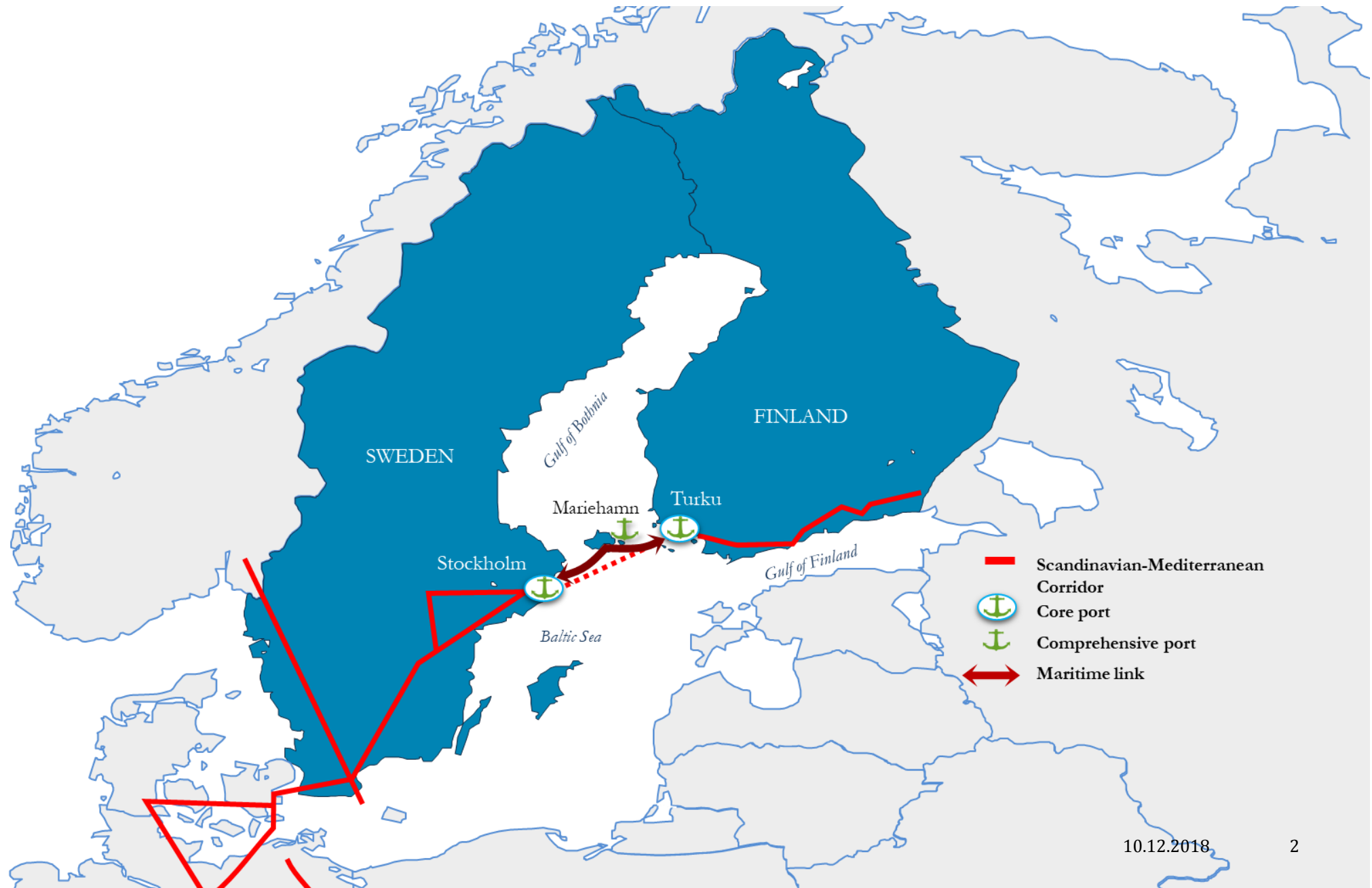
NextGen Link

Upgrade of the maritime link with the port interconnections in the ScanMed Corridor

2016-EU-TM-0092-W



Co-financed by the Connecting Europe
Facility of the European Union



- Scandinavian-Mediterranean Corridor
- Core port
- Comprehensive port
- ↔ Maritime link

10.12.2018 2

Action information

Preceding CEF-financed project:

The Northern ScanMed Ports – Sustainable Maritime Links (1/1/2014-31/12/2016)

NextGen Link

- Implementation time: 07/02/2017-31/12/2020
- Budget approx. 39 M€
- Maximum EU co-funding: 12,7 M€
- Project partners:

PORT OF TURKU FINLAND VIKING LINE

MARIEHAMNS
HAMN



Ports of Stockholm



- Coordinator: Port of Turku

10.12.2018

3

PORT OF TURKU
FINLAND

VIKING LINE

MARIEHAMNS
HAMN



Ports of Stockholm



Co-financed by the Connecting Europe
Facility of the European Union

Activities

- **Environmental upgrade of maritime link with a new ro-pax vessel**
- **Infrastructure development in three ports.**

VIKING LINE 1. **Environmental upgrade of the maritime link:** Procurement of additional environmental efforts of a new ro-pax vessel for the maritime link Turku-Mariehamn-Stockholm

PORT OF TURKU FINLAND 2. **Infrastructure development at the Port of Turku:** new logistics arrangement, a vehicle measurement system and automated mooring

SIH Ports of Stockholm 3. **Infrastructure development at Stadsgården, Ports of Stockholm:** new port logistics area, Intelligent Transport System (ITS)

MARIEHAMNS HAMN 4. **Infrastructure development at the Port of Mariehamn:** adapting the loading/unloading of freight and passengers and automated mooring

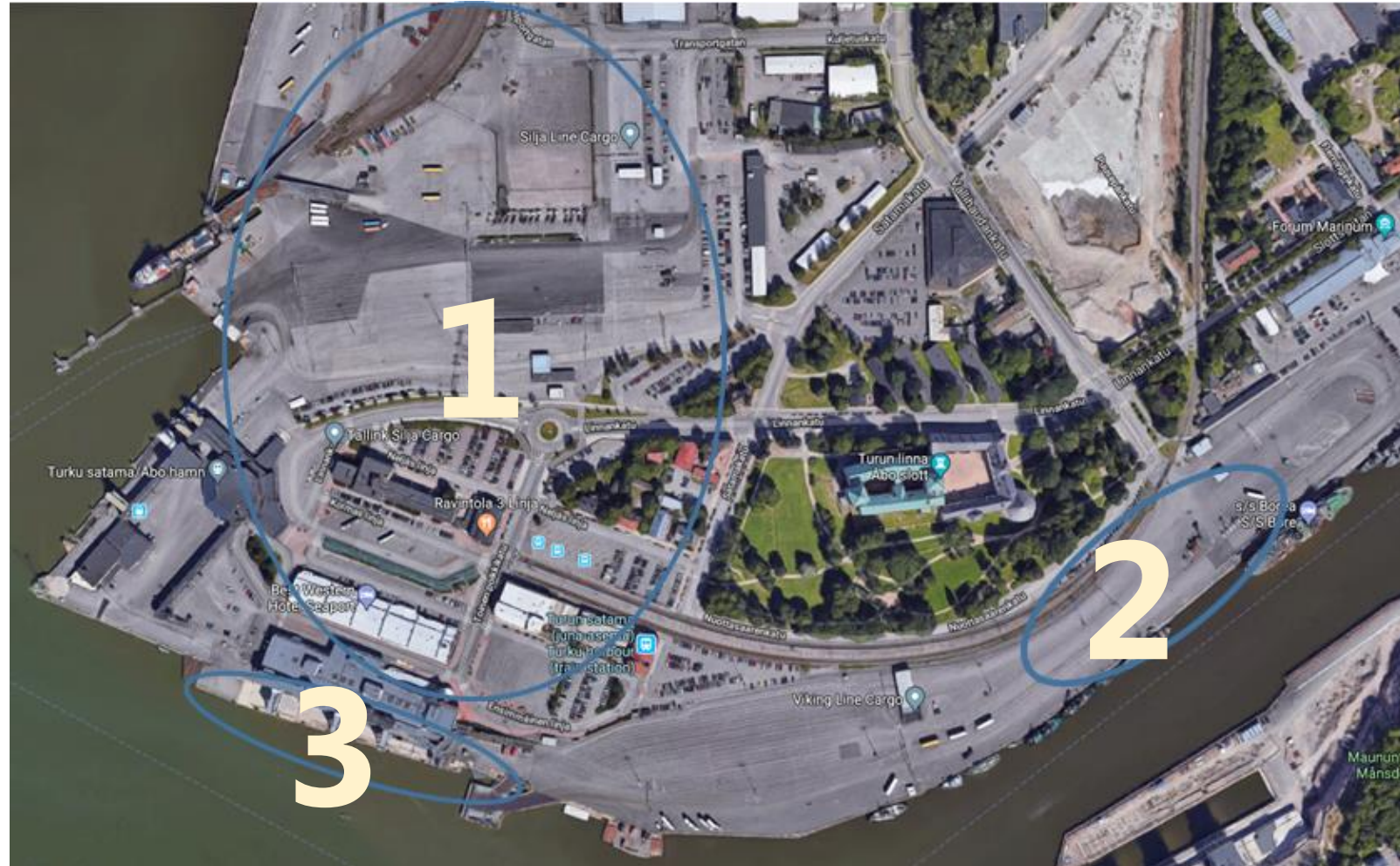
5. **Dissemination, communication and project management**

Activity 1: Environmental upgrade of the maritime link: a new ro-pax vessel Turku-Mariehamn-Stockholm (Viking Line)

- Environmental efforts of a ro-pax vessel to be delivered by the end of 2020
 - 20 % lower fuel consumption per cargo unit than Viking Grace
- Sub-activity 1.1: Procurement of LNG system
 - Six high efficiency dual-fuel four-stroke engines
 - Six Gas Valve Units (GVU)
 - Two dual fuelled steam boilers (for heating during wintertime)
 - Two vacuum insulated C-type LNG tanks with approx. volume of 500 m³ at 85 % filling
- Sub-activity 1.2: Procurement of auxiliary wind propulsion
 - Two auxiliary wind propulsion systems will be procured. The rotor sail has a height of 24 m and a diameter of 4 m.



Activity 2: Infrastructure development at the Port of Turku: new logistics arrangement, a truck measurement system and automated mooring



Sub-activity 2.2: Digitalization and automation of the port: vehicle measurement system

- Vehicle measurement system will be introduced at the port to get exact information of the loaded cargo and damages
- Investment made by Port of Turku and Viking Line
- The system will include a number plate recognition, a measurement scanner (for length, width and height) and weight-in-a-motion scale to measure weight
- Cameras for damage detection
- Includes ground works, cabling, portal for imaging and measuring devices, cameras, laser scanners, truck scale, server room and required software
- Installation during 2019
- A similar system will be installed at the Port of Stockholm to ensure benefits to the maritime link in both directions



10.12.2018

7

Sub-activity 2.3: Automated mooring system

- Improves safety and operational efficiency, enables time savings for the maritime link.
- Vacuum-based automated mooring technology will eliminate the need for conventional mooring lines
- Remote controlled vacuum pads are able to moor or release vessels in seconds
- Separate mooring units along quay area will be installed
- A similar system will be installed at the Port of Mariehamn
- Installation by the end of 2020



10.12.2018

8

Some experiences about CEF Funding

- A lot of work in application phase
- Always helps if you have already clear project idea which suits to CEF call
- During project period Grant Agreement defines obligations, responsibilities and tasks
 - Annual reporting, interim payments
- Not so bureaucratic as some other EU funding (Interreg Program)
- Project Manager at INEA always helps – meetings, calls, emails



SecurePax – Improving security of passenger transport in maritime ports

- Project proposal CEF-T-2018-MAP-TRANSPORT
- Deadline for submission 24/10/2018

IMPLEMENTATION TIME: 01/01/2019 - 31/12/2021

PROJECT ACTIVITIES:

- Digital registration of passengers
- ISPS roles and responsibilities
- Detection of concealed weapons and explosives
- Comprehensive security development, including 5G network in the port

PROJECT LOCATION AND MARITIME PASSENGER VOLUMES IN THE NORTHERN BALTIC SEA



PORT OF TURKU
FINLAND

VIKING LINE

TALLINK | **SILJA LINE**