

## **Internationally competitive maritime education for modern seagoing and high quality port services (CoMET)**

Programme Priority: P4 Skilled and socially inclusive region

Programme Specific Objective: 4.2. More aligned vocational education and training (VET) programmes in the Central Baltic region

Sub-programme: Southern Finland - Estonia

Duration: 01.03.2018 - 31.08.2021

Total funding: 947.952 EUR

ERDF funding: 739.757 EUR ERDF

### **Project Summary:**

Seafaring and maritime operations are under constant development; digitalisation, safety and renewed environmental regulations being the most significant factors requiring readiness for change from maritime education providers. The global nature of seafaring also needs for education to take place in an international context. This project aims to connect maritime simulator centers across the Baltic Sea. Simulator connectivity enables students to train within the same virtual learning environment where multi-cultural communication and teamworking are an integral part of the training.

Currently crossborder education between maritime education institutes and their simulator centres does not exist. Combining the best expertise into the project partnership, technical expertise in simulators of EMERA, specialization in simulator training structures of EKAMI, proven expertise of Xamk and Aboa Mare in simulation pedagogy and port management expertise in IVKHK enables creating joint maritime vocational education which measures up with the requirements set by labour markets.

The project will conduct a labour market investigation to elaborate on the set objectives. Then takes place the development of simulators to establish a connection between simulation centres. In parallel guidelines for harmonized simulator trainings are created. New training methods, tools, e-learning platforms and best practices for simulation pedagogy are examined. Joint education is designed and demonstrated in course pilots themed in accordance with labor market needs. Joint programmes and the learning materials developed by the project are integrated into existing curricula. As a result, a new simulated transboundary learning environment and deepened collaboration between education institutions are created. They will in turn provide maritime, port and logistics students with modern education improved in quality and safety, extending the employment opportunities of the students.

## **Map of Partners**

### **Partners**

Lead Partner

## **Kotkan-Haminan seudun koulutuskuntayhtymä**

**Country:** FI

[ekami.fi](http://ekami.fi) [1]

**Partner budget:** 250.877 EUR

**Amount of ERDF funding:** 186.151 EUR ERDF

Project Partners

## **Kaakkois-Suomen ammattikorkeakoulu**

**Country:** FI

[www.xamk.fi](http://www.xamk.fi) [2]

**Partner budget:** 279.970 EUR

**Amount of ERDF funding:** 207.738 EUR ERDF

## **Tallinna Tehnikaülikool**

**Country:** EE

[www.ttu.ee](http://www.ttu.ee) [3]

**Partner budget:** 317.105 EUR

**Amount of ERDF funding:** 266.368 EUR ERDF

## **Ida-Virumaa Kutsehariduskeskus**

**Country:** EE

[www.ivkhk.ee](http://www.ivkhk.ee) [4]

**Partner budget:** 50.000 EUR

**Amount of ERDF funding:** 42.000 EUR ERDF

## **Ab Yrkeshögskolan vid Åbo Akademi (YH Novia)**

**Country:** FI

<http://www.aboamare.fi> [5]

**Partner budget:** 50.000 EUR

**Amount of ERDF funding:** 37.500 EUR ERDF

## Results

### Expected results

### Achieved results

Project result in category - Aligned vocational education and training programme

## CoMET created a training programme for maritime, logistics and cargo handling

The project CoMET created a training programme for maritime, logistics and cargo handling. The programme includes several different entities, like cross-border simulator training program, simulator-based training, emergency procedures, watchkeeping, operation of machinery system and engineering watch and cargo handling. The training programme is based on the labour market and educational needs which were mapped in the project and published in the publication “Establishing Learning objectives for Maritime simulator training. [CoMET Project Report on Maritime Educational Needs and Learning Objectives](#) [6]”.

Training programmes for maritime, logistics and cargo handling has been collected to online Training Manual. The Manual and contact information can be found on [project webpage](#) [7].

There is also a separate publication about “Methods and pedagogy of maritime simulator training. [CoMET Project Report on Guidelines for Simulation Education used in Joint Training](#) [8]”.

Besides the training materials, the participated Maritime Simulator Centres are now connected to European Maritime Simulator Network and are enabled to cross-border seafarers’ training. Piloted joint simulator centre trainings were [documented on video](#) [9].

Project page in database

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At a glance

Training programmes for:

- Simulator-based training
- Emergency procedures
- Watchkeeping
- Operation of machinery system
- Engineering watch and cargo handling


Files

 [Developing a framework for maritime simulator training](#) [11]

 [Cargo Handling - Orientation period to on-the-job-learning](#) [12]

 [Engine room - training simulator manual](#) [13]

 [Establishing learning objectives for maritime simulator training](#) [14]

 [Methods and pedagogy of maritime simulator training](#) [15]

 [Apprenticeship or Work-Based Learning \(WBL\) in Estonia](#) [16]

#### Tags

[Coastal management and maritime issues](#) [17]

[education and training](#) [18]

[Logistics and freight transport](#) [19]

## Project Visibility

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[Webpage](#) [20]

### Project videos

<https://www.youtube.com/watch?v=Hz9Up4GAhYo>

**Source URL:**<https://database.centralbaltic.eu/printview/90>

### Links

[1] <http://ekami.fi> [2] <http://www.xamk.fi> [3] <http://www.ttu.ee> [4] <http://www.ivkhk.ee> [5] <http://www.aboamare.fi/> [6] <https://www.theseus.fi/handle/10024/297466> [7] <https://cb714comet.com/publications/> [8] <https://www.theseus.fi/bitstream/handle/10024/499816/URNISBN9789523443433.pdf?sequence=2&isAllowed=y> [9] <https://www.youtube.com/watch?v=Hz9Up4GAhYo> [10] <https://database.centralbaltic.eu/project/90> [11] <https://database.centralbaltic.eu/sites/default/files/developing-framework-for-maritime-simulator-training.pdf> [12] [https://database.centralbaltic.eu/sites/default/files/cargo-handling\\_orientation-period-to-on-the-job-learning-2ects.pdf](https://database.centralbaltic.eu/sites/default/files/cargo-handling_orientation-period-to-on-the-job-learning-2ects.pdf) [13] <https://database.centralbaltic.eu/sites/default/files/engine-room-simulator-training-v4.pdf> [14] <https://database.centralbaltic.eu/sites/default/files/URNISBN978-952-344-234-4.pdf> [15] <https://database.centralbaltic.eu/sites/default/files/URNISBN9789523443433.pdf> [16] [https://database.centralbaltic.eu/sites/default/files/work-based-learning\\_estonia.pdf](https://database.centralbaltic.eu/sites/default/files/work-based-learning_estonia.pdf) [17] <https://database.centralbaltic.eu/tags/coastal-management-and-maritime-issues> [18] <https://database.centralbaltic.eu/tags/education-and-training> [19] <https://database.centralbaltic.eu/tags/logistics-and-freight-transport> [20] <https://cb714comet.com/>