



Future-proof skills for the
maritime transport sector

Work Package 1 :

Norwegian University of Science and
Technology

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Team: Prof. Hans Petter Hildre, Yushan Pan (PHd)



- **Programme:** Erasmus+
- **Instrument:** Blueprint for sectoral cooperation on skills
- **Total budget:** € 3.996.555
- **Duration:** January 1, 2019 to December 31, 2022
- **Project coordinator:** STC Group, the Netherlands
- **Consortium:** 27 partners from 16 countries
- **Website:** www.skillsea.eu

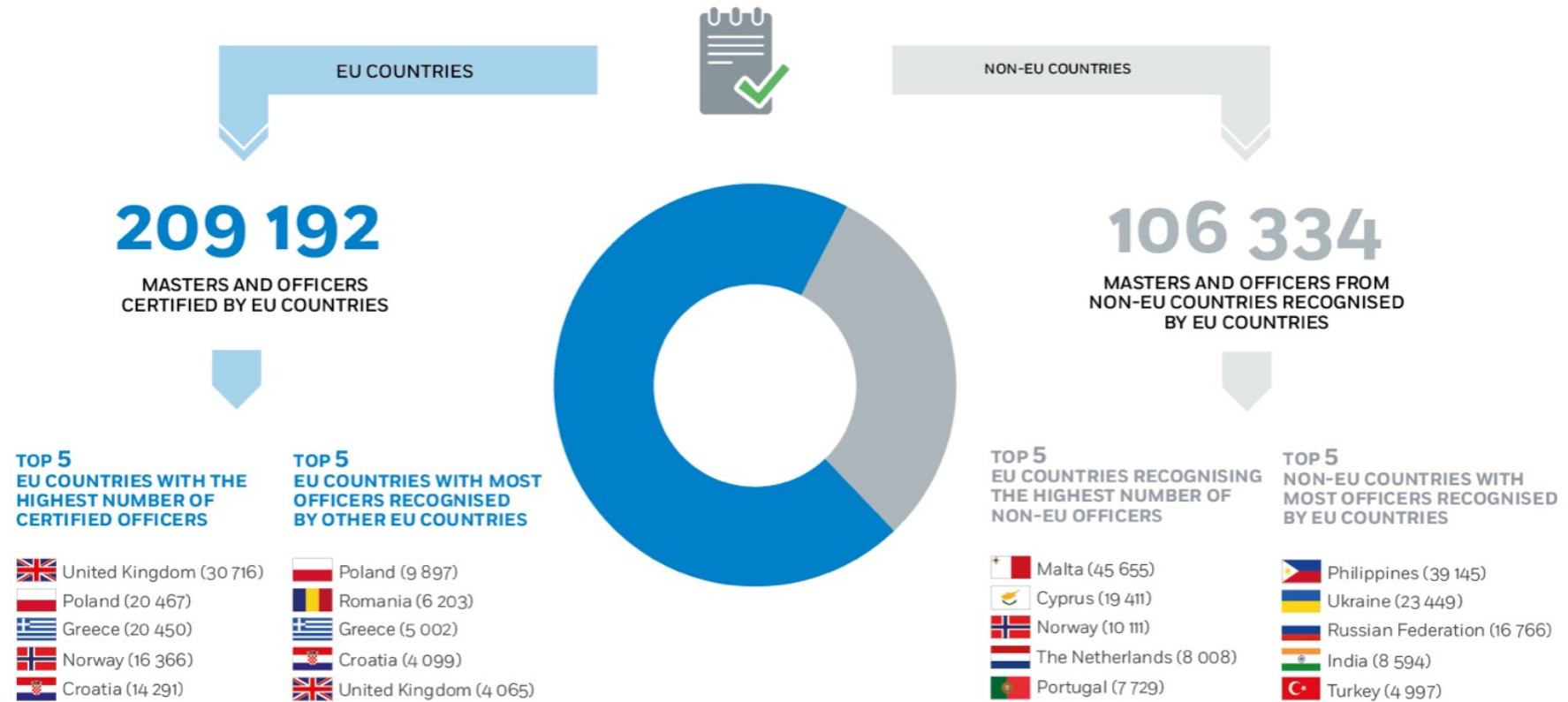
Core objectives of SkillSea

- Foster cooperation at EU level between:
 - Industry – education/training - authorities
- Develop strategy for education & training
 - future-proof, adaptable, attractive
- Support maritime professionals to gain appropriate skills for the labour market;
- Promote the skills sustainability strategy in the framework of the European maritime industry.



SEAFARER STATISTICS IN THE EU

A SNAPSHOT OF THE NUMBER OF SEAFARERS HOLDING CERTIFICATES OF COMPETENCY & ENDORSEMENTS ATTESTING RECOGNITION BY EU COUNTRIES VALID IN 2018, AS REPORTED IN EMSA'S STCW INFORMATION SYSTEM

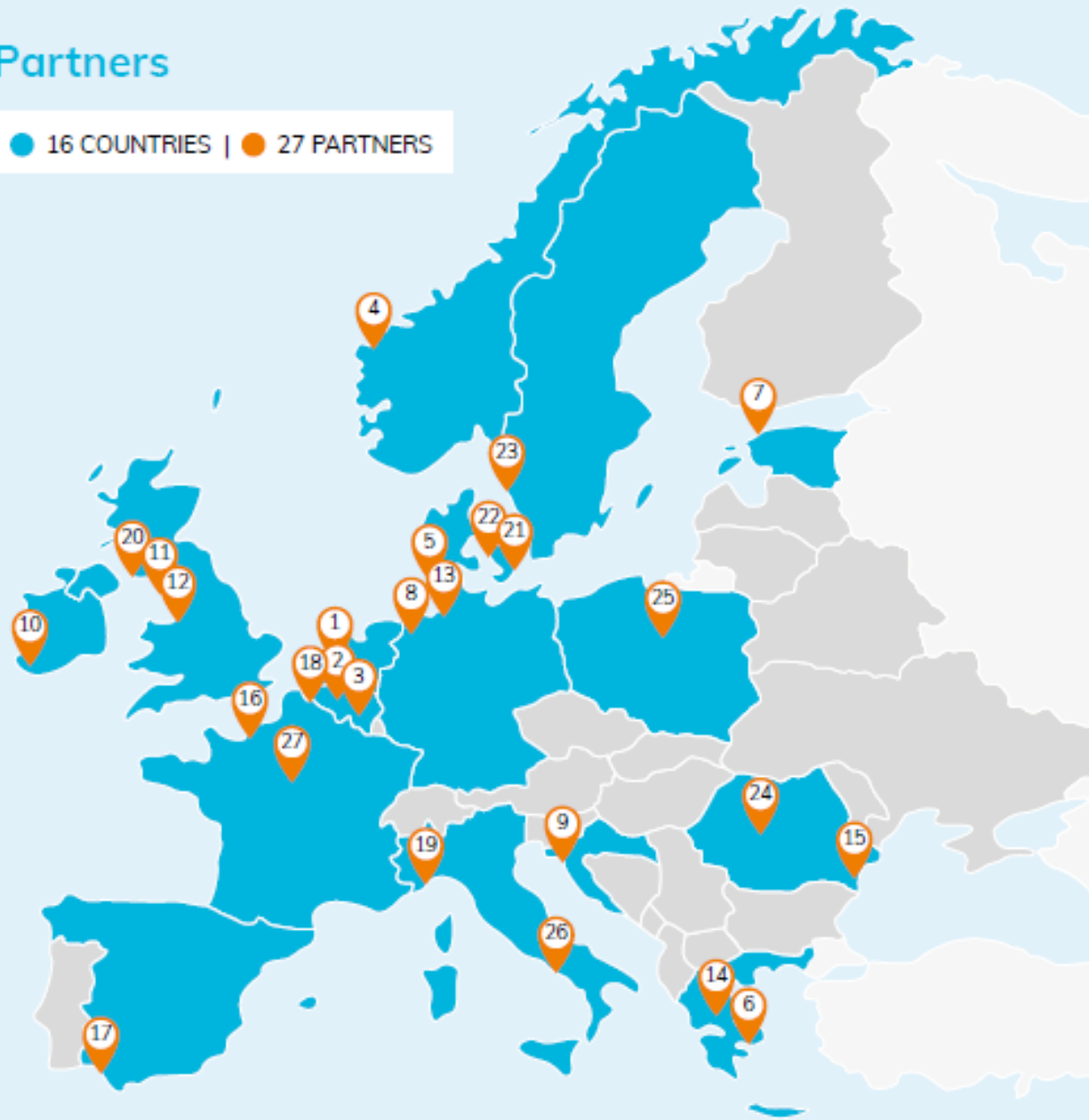


Source: EMSA



Partners

● 16 COUNTRIES | ● 27 PARTNERS



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Duration:
1st January 2019 to
31st December 2022

Work Package 1:

Skills Needs Identification

- Task 1.1.2 Current skills needs
- Task 1.1.3 Future skills and competence needs
- Task 1.2.1 Skills and Competence GAP current and future
- Task 1.2.2 Identification of mismatches on a structural basis
- Task 1.2.3 Impact on occupational profiles

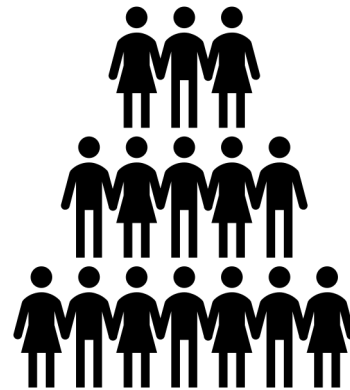


Research Method

Current skills needs



Literature review

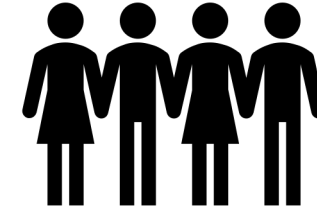
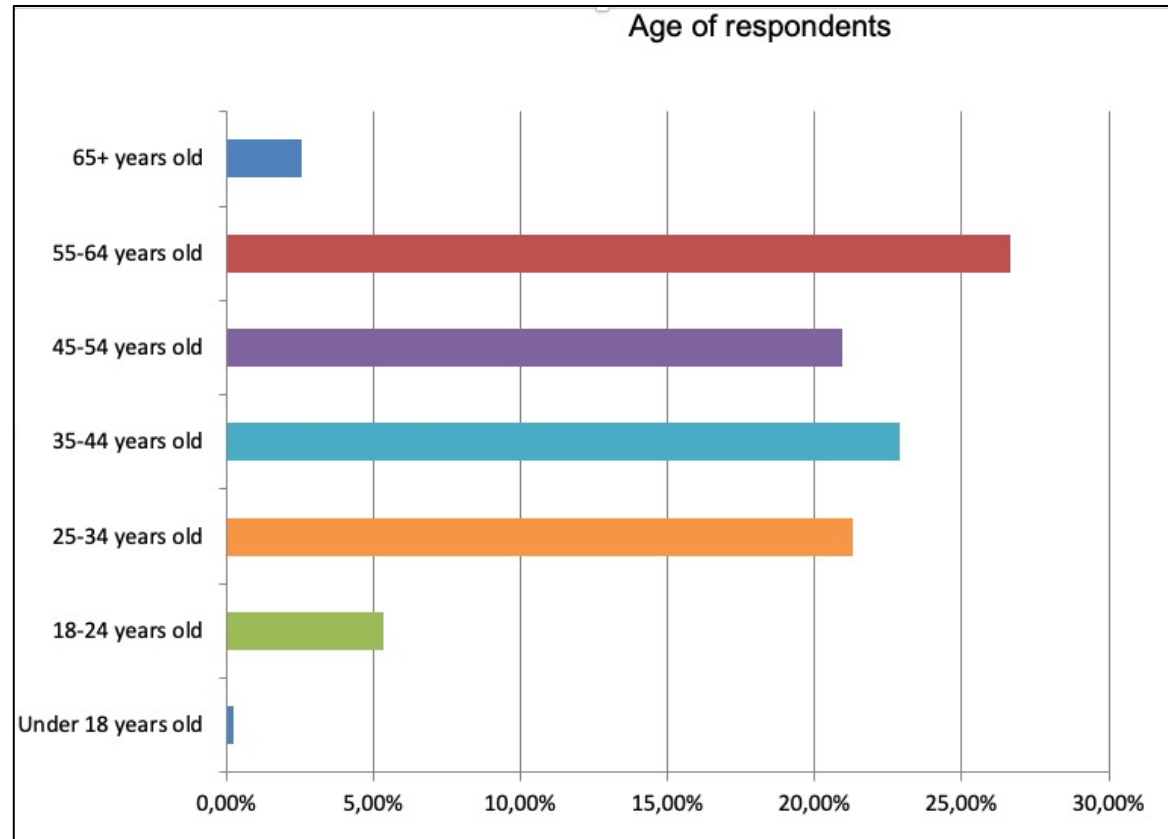


Seagoing
1100 respondents



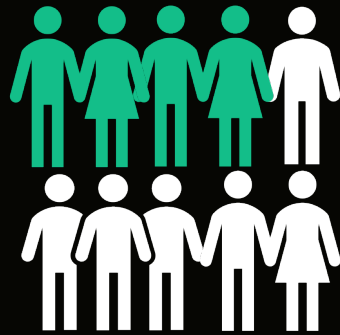
Shore based
450 respondents

Age of respondents



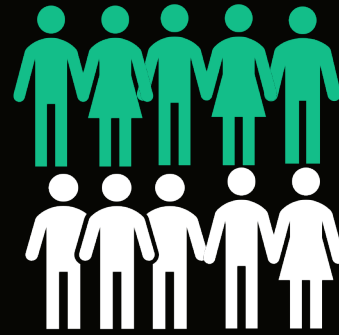
Survey shipboard personnel

Overburdened with
obsolete knowledge?



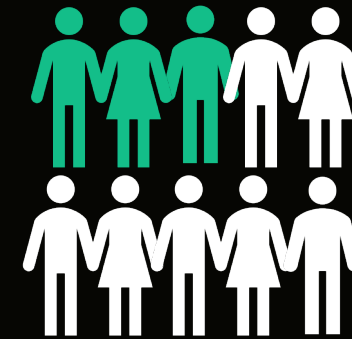
Yes: 40%

Important topics
are missing?



Yes: 50%

Satisfactory in
all respects?



Yes: 30%

Research Method

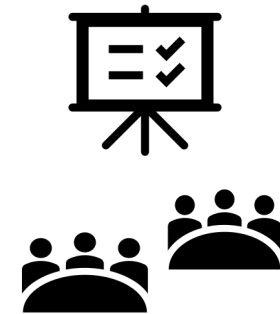
Future skills needs



Interview key visionaries



Analyse reports on future development
DNV-GL, Lloyds, Gartner group etc



Mapping of METs and METs
competence programs

WPI Skills need identification

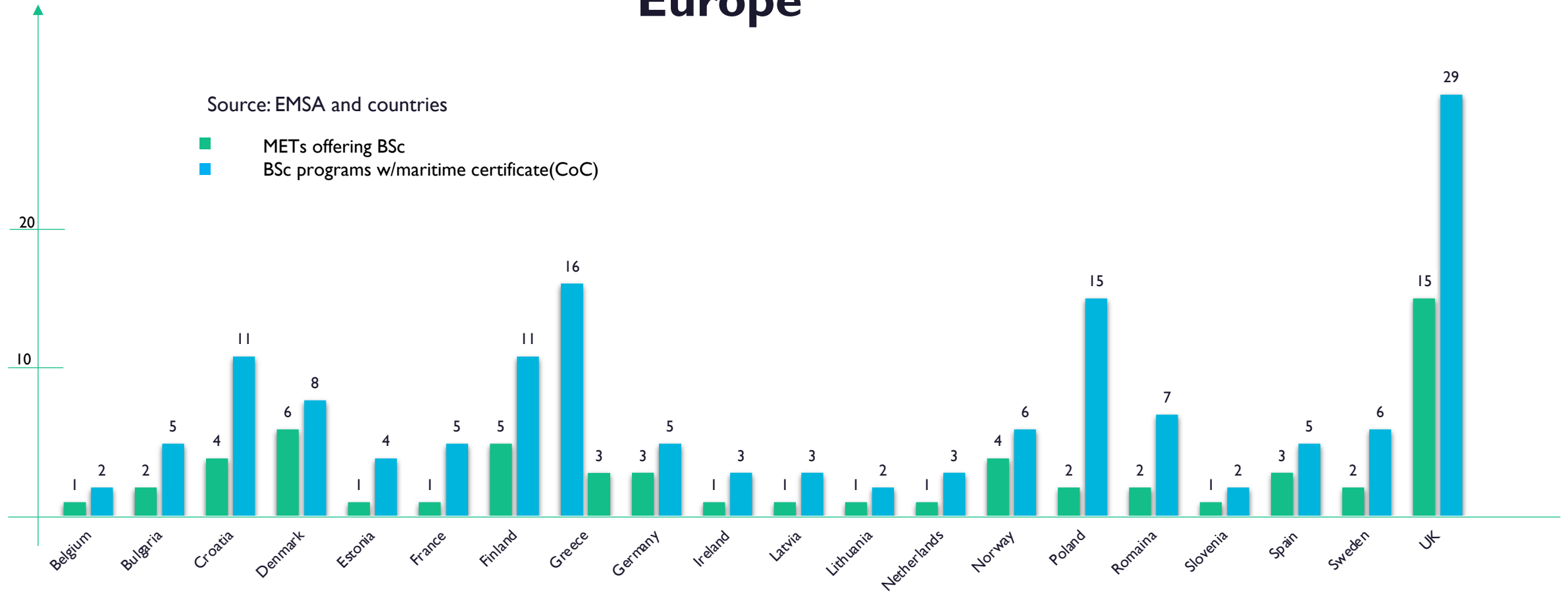
Current skills needs

- Maritime economy
- Maritime law
- Ships technologies
- Green skills
- Digital skills
- Transversal skills
- Measures and recommendations

Future skills needs:

- Sustainable/environmental
- Collaborative (cluster)
- Digital
- Innovation
- Transversal & Transitional
 - Sea-land mobility
 - Leadership

METs with BSc programmes and Certificates in Europe



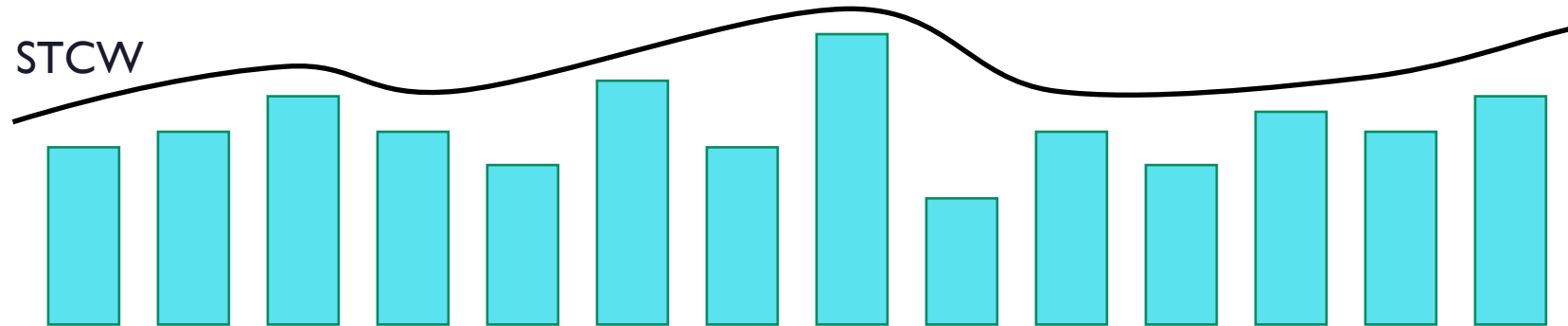
Highest competence



Baseline



STCW



European countries

Future skills needs:

- Digital
- Sustainable
- Transversal
- Leadership

Current skills GAP:

- Computer literacy
- Leadership
- Maritime law
- Teamwork
- English proficiency
- Maritime economy
- Maritime technology

Closing the skills GAP

