

# MASS OPERATIONS – IMPACTS ON SEAFARERS

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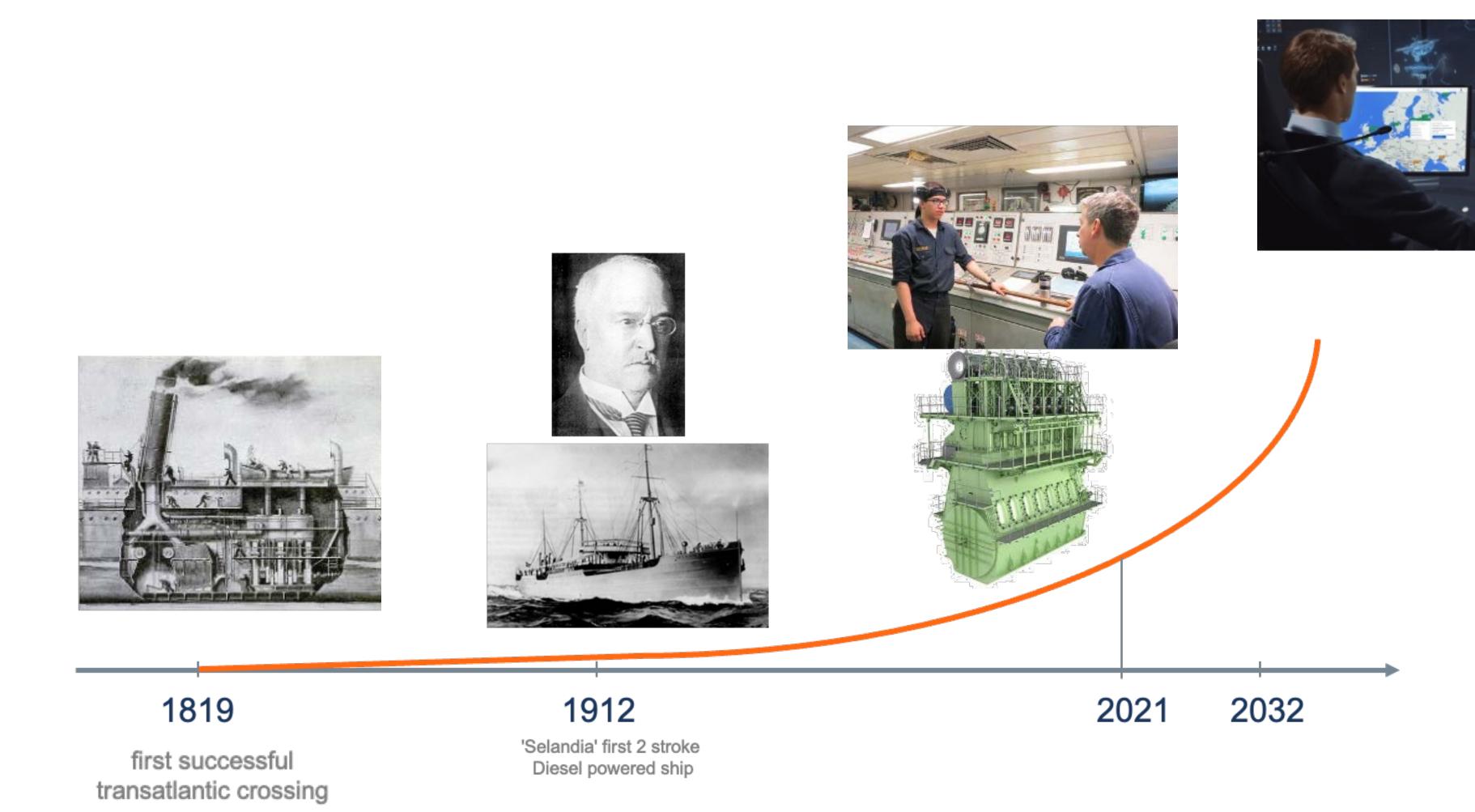
**ITF Seafarers Trust Chair** 

**World Maritime University** 

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#### MOVING CONTROL FROM SHIP TO SHORE

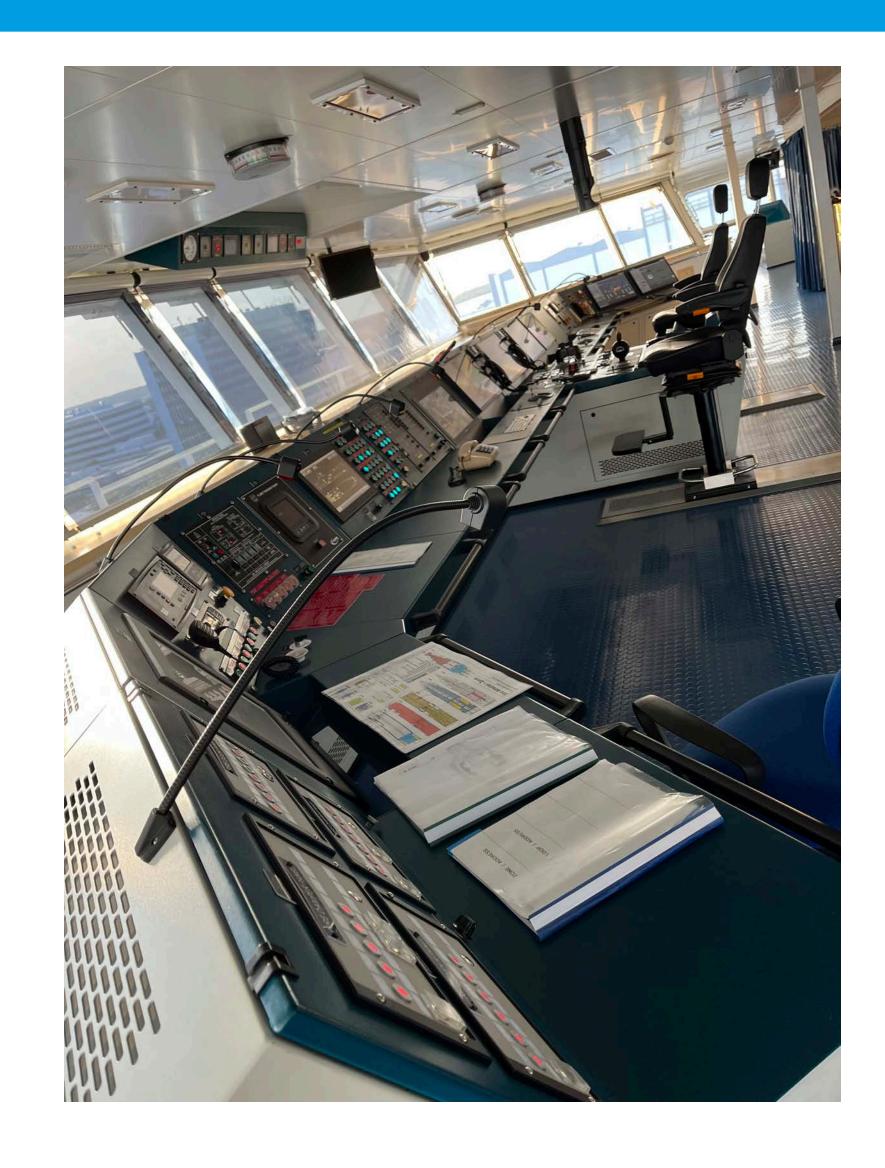


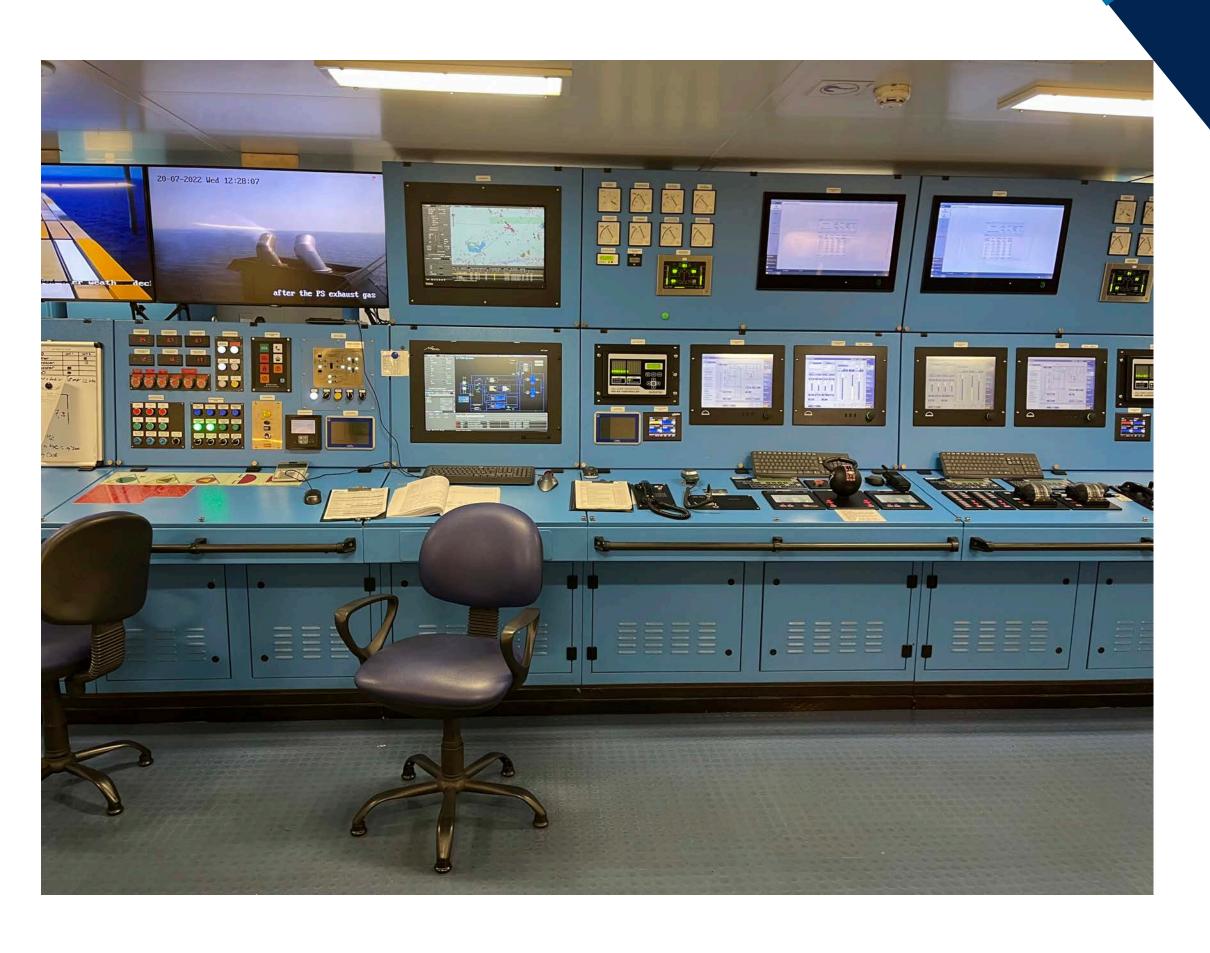
Source: Chen, G (2021)







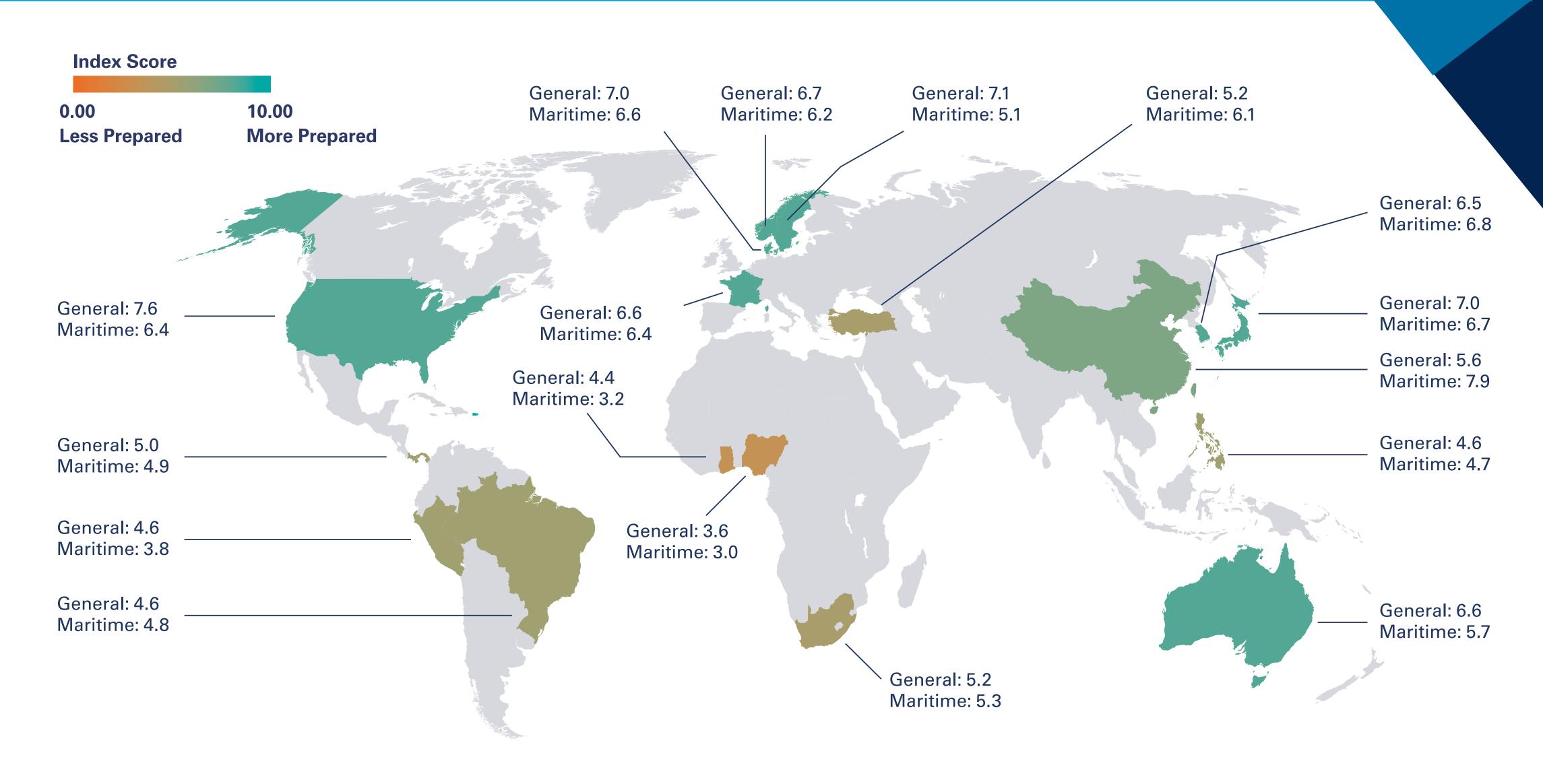




Bridge

**Engines Room** 

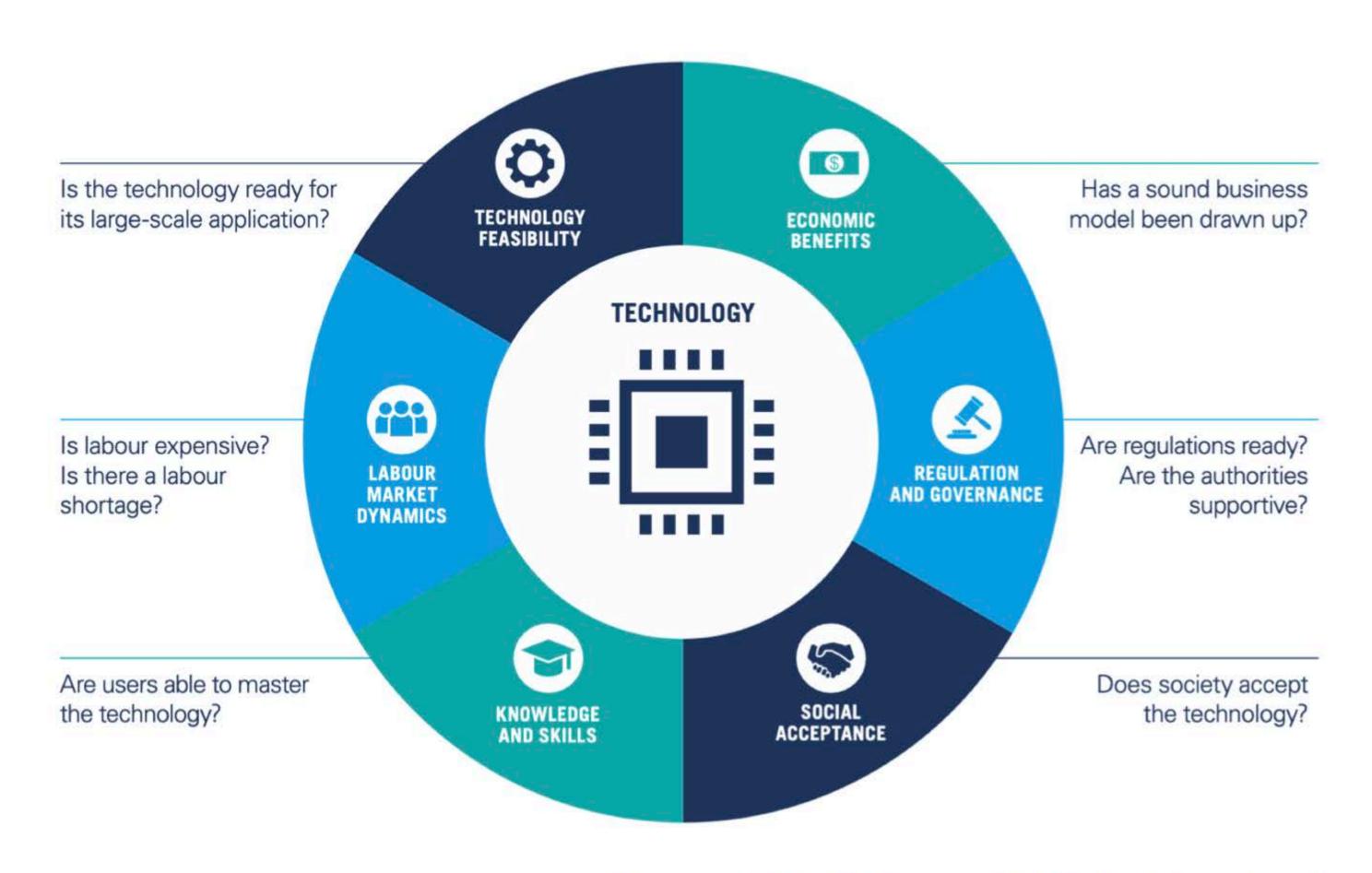




Source: WMU Country Profiles – Technology Readiness: Maritime

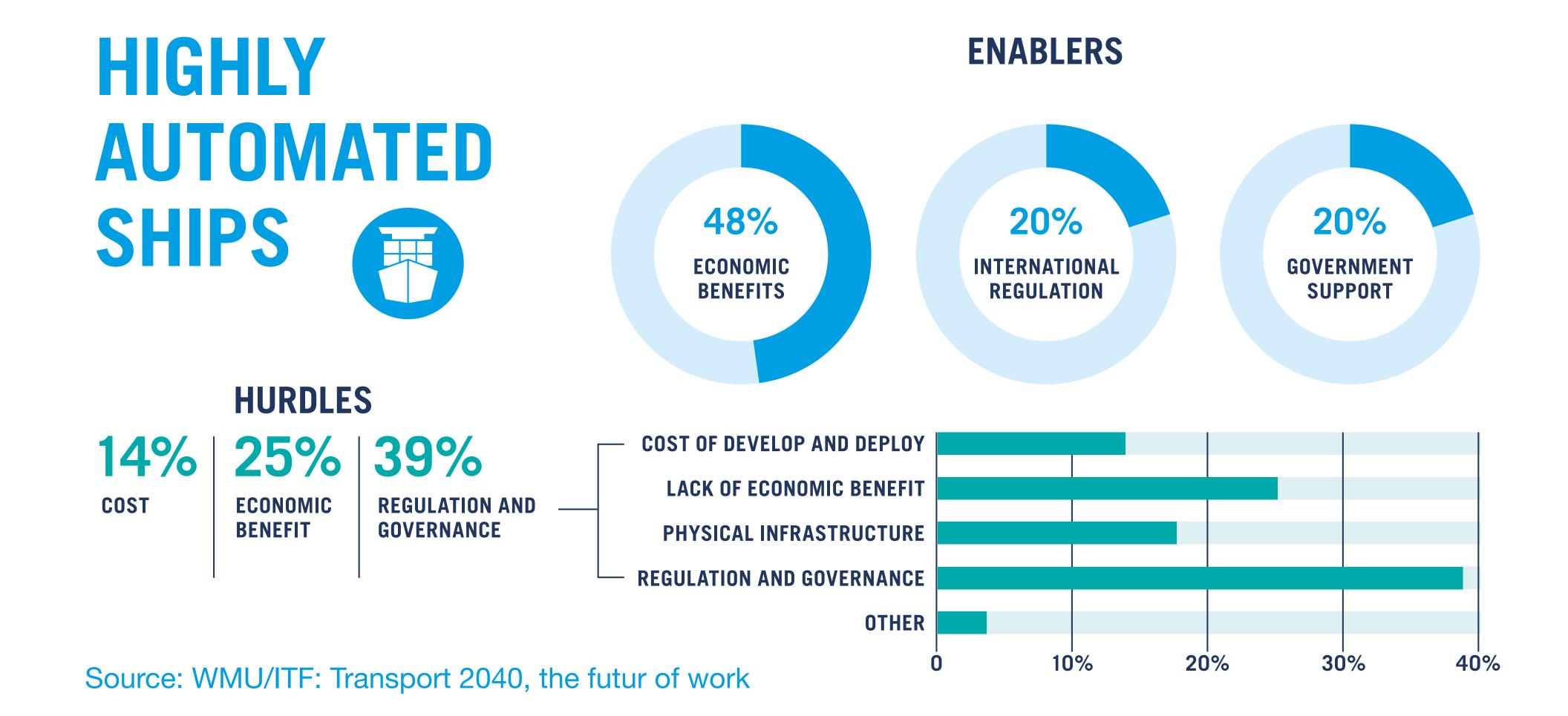
### INTRODUCTION OF MASS IS EVOLUTIONARY RATHER THAN REVOLUTIONARY

#### **SIX MAIN FACTORS**

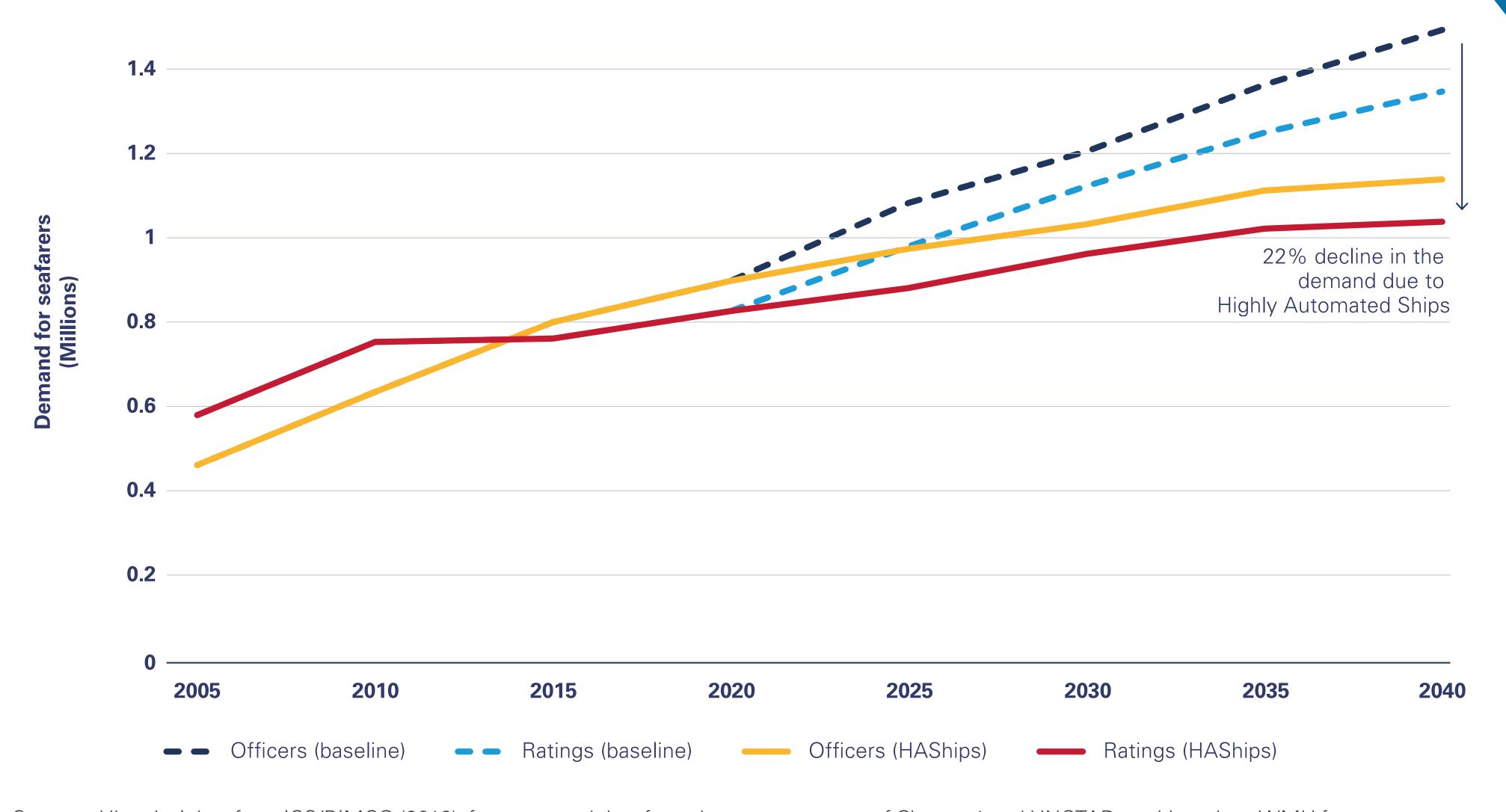


Source: WMU/ITF: Transport 2040: the future of work

## INTRODUCTION OF MASS IS EVOLUTIONARY RATHER THAN REVOLUTIONARY





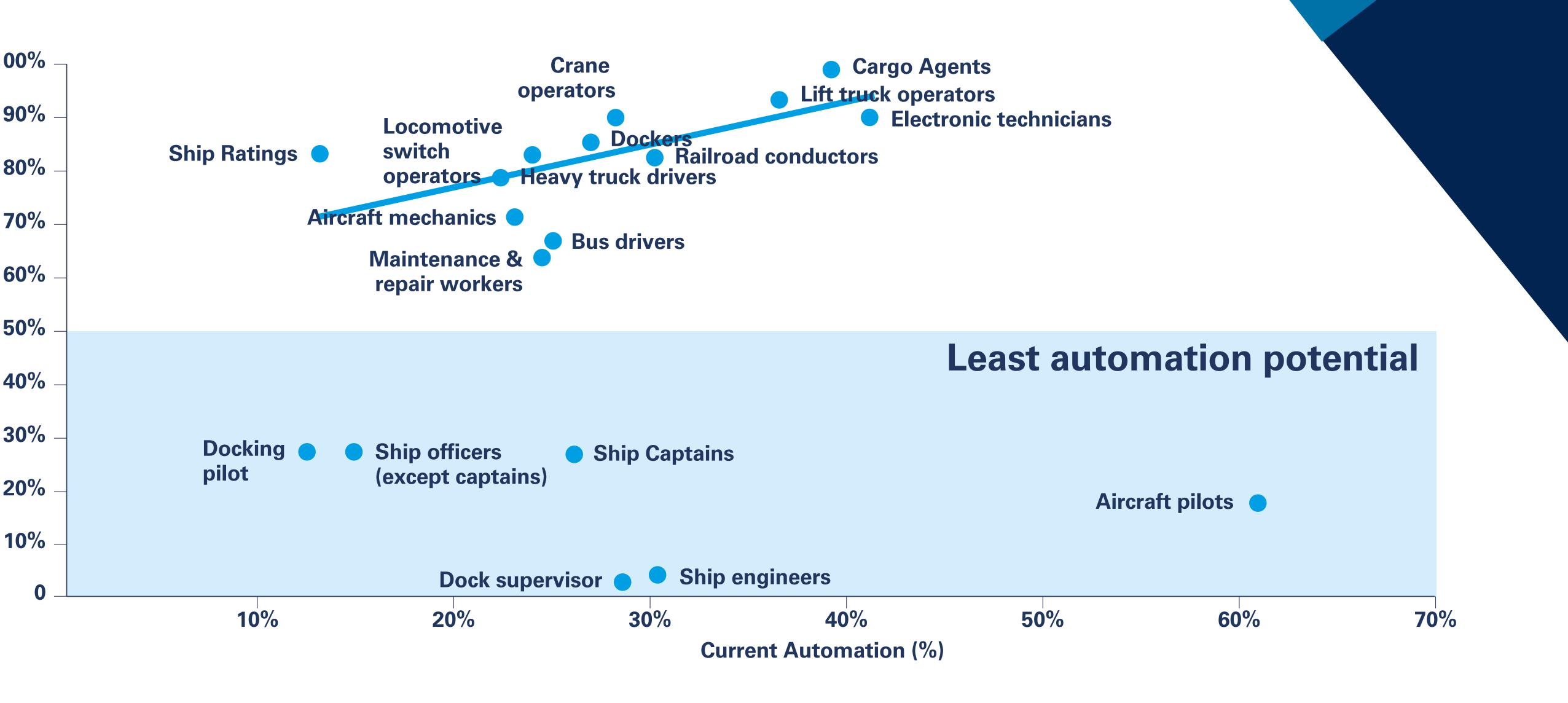


Sources: Historical data from ICS/BIMCO (2016); forecast used data from the start-up curves of Chapter 1 and UNCTAD maritime data; WMU forecast.

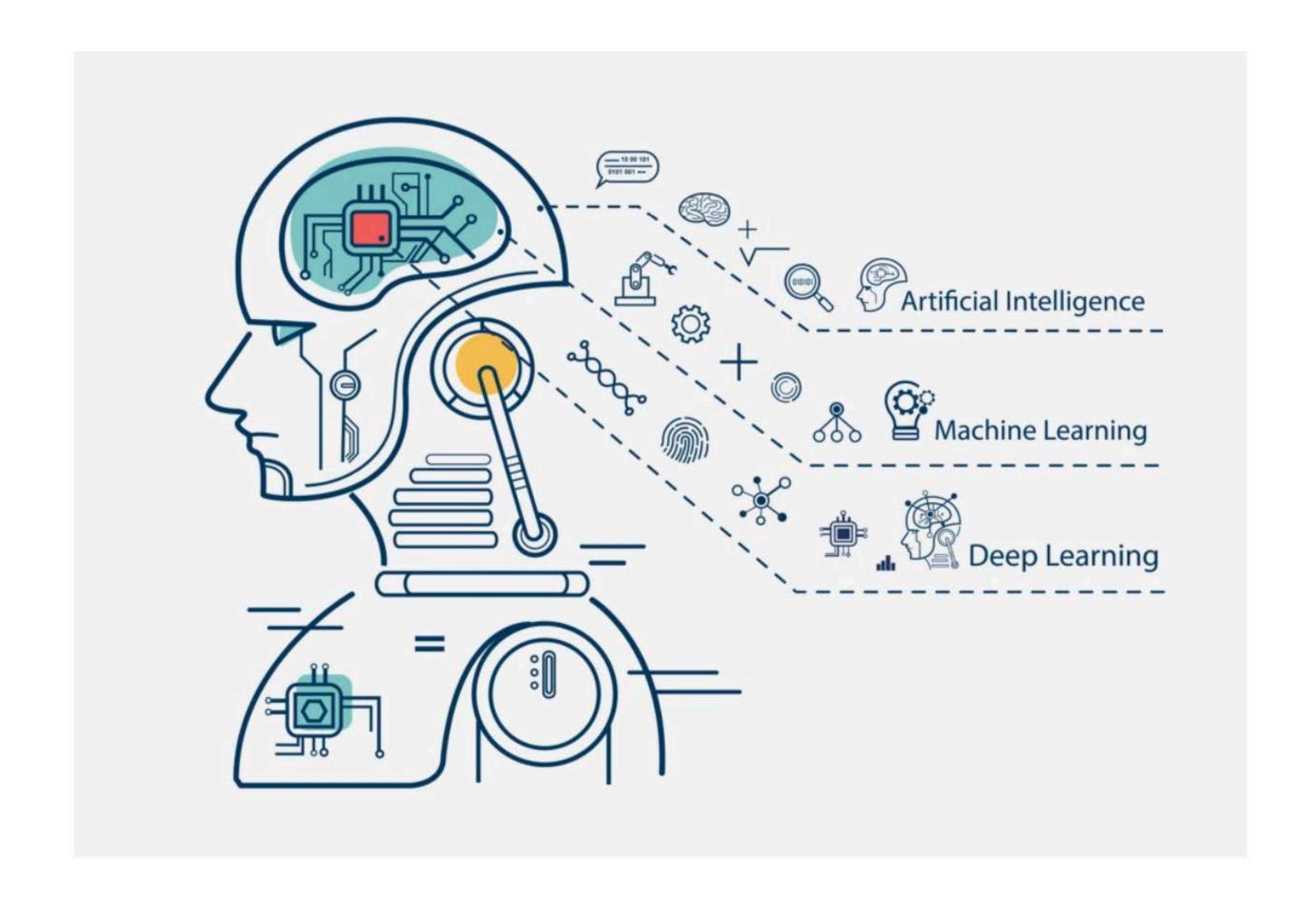
Notes: HAShips stands for Highly Automated Ships taking international voyages (average tonnage, average trade). The predictions are subject to a high level of uncertainly, quantified between -6 percentage points and +18 percentage points within a 95 per cent confidence interval. The crew reduction approximately

follows an exponential process and by 2040 the crewing levels are assumed to be reduced between 16 and 24 per cent.









New skills and competencies will be needed...but not only!!!

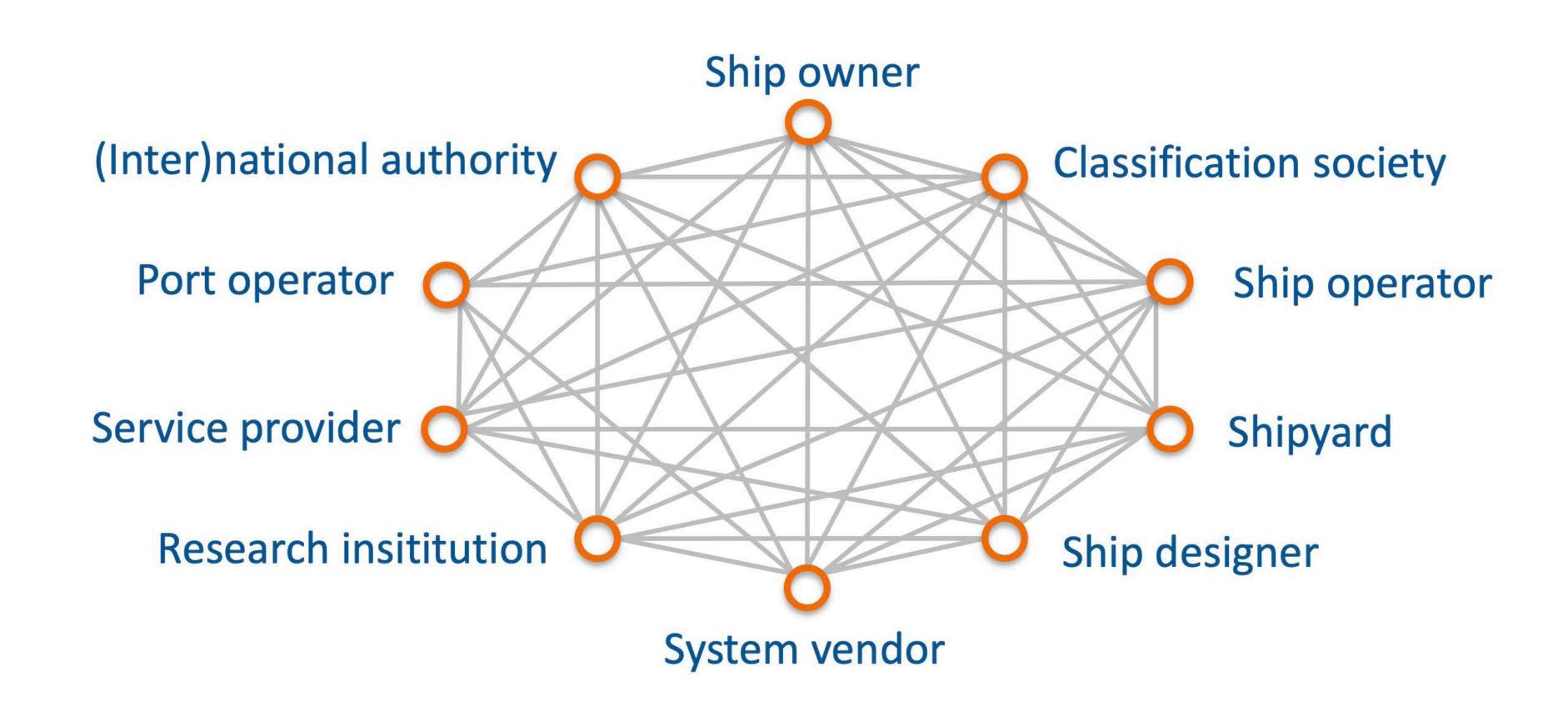


"Adaptation/Revision" of Maritime Labour and Human element instruments will be needed as well, considering:

- How to deal with Occupational Health and Safety (OHS)? i.e. Technostress; Additional work due to the introduction of new technology, etc.
- How to protect seafarers against monitoring/surveillance at sea due to technology?

### REGULATING MASS: A COLLABORATIVE PROCESS





Source: Zou, G (2021)







Participation of seafarers in the process

#### RECOMMENDATIONS



- 1. Facilitation of more intensive dialogues between stakeholders in the maritime sector for a better understanding of the different position of all parties concerned
- 2. Considering to involve more Labour Supply Countries in the dialogue
- 3. Identifying future competencies needed to effectively work in a world of advanced automation and technology in transport and considering to allocate national funds to implement them in education and training
- 4. Considering OHS of seafarers within the development of the MASS Code
- 5. Proper national strategies and policies to address the ramifications of further automation and technology in the maritime sector



#### THANK YOU FOR YOUR ATTENTION

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