

Digitalization will transform marine industry in near future and give a powerful push towards new innovations.

We are now seeking innovations on

- Safety
- Sustainability
- Test area

Present your solution to the world on
1st DEC 2017



Image © Rolls-Royce

Theme 1: Safety

The unmanned containerships of the future require solutions to ensure safety in all conditions.

What would be your innovative proposal for the increasing the fire protection in unmanned containerships in particular in the areas of

- Prevention
- Detection
- Extinguishing
- Restriction

The solution can be a combination of software and/or hardware. Consider also the operating conditions in the sea and possible data transfer requirements.



Theme 2: Sustainability

Sustainability, energy efficiency and environmental protection are key issues for autonomous vessels of the future

EU has set out a strategy to reduce emissions of vessels. The strategy consists of **3 consecutive steps**:

- **Monitoring, reporting and verification** of CO₂ emissions from large ships using EU ports
- **Greenhouse gas reduction targets** for the maritime transport sector
- **Further measures**, including market-based measures, in the medium to long term

The solution can be a combination of software and/or hardware. Implement a IoT landscape and open & reliable database system to container shipping ecosystem in order to speed up stakeholders to reduce actual emissions.

Optional suggestions for the solution

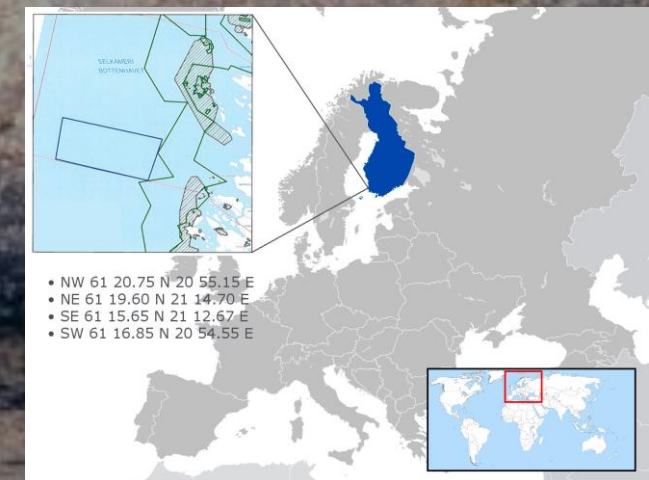
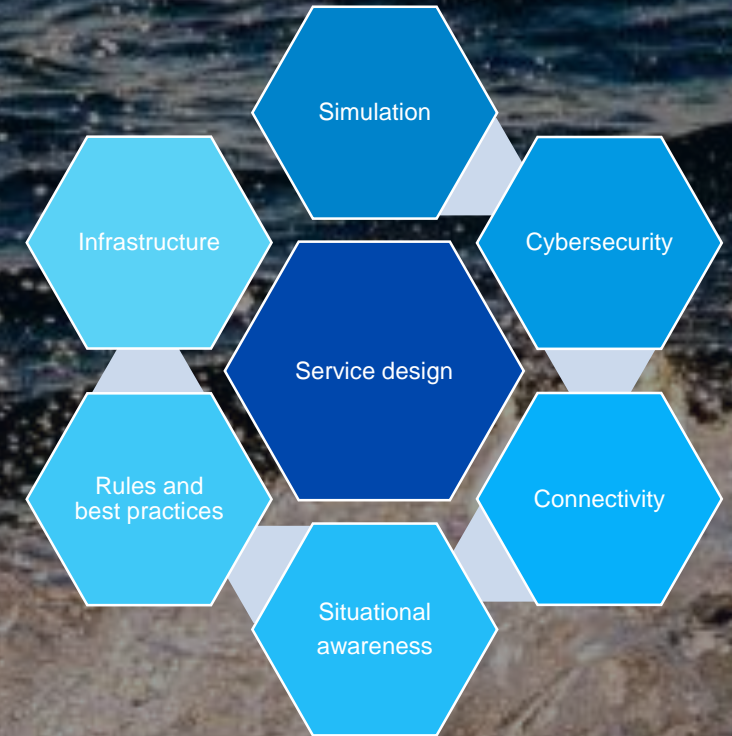
- Automation of cyber secured data collection from ships to system
- From theoretical calculated emissions to verified emissions per TEU/ton per nautical mile
- Blockchain or other distributed ledger technologies

Theme 3: Test area for the autonomous maritime technology

Thorough testing in authentic sea conditions is critical to ensure the functionality of systems and technology and to guarantee the required safety and reliability requirements for the autonomous vessels of the future.

Jaakonmeri test area is located on coastal area of Finland. It is open to all companies, research institutes and others wishing to test autonomous maritime traffic, vessels, or technologies related to it.

- What physical and/or virtual services should the test area have?
- Who would you want to engage with the service?
- What would be the optimal model for offering the services?



The Next Steps

Do you have a technology or solution for autonomous maritime outside these three themes?
Let us know about it!

1. Sign-up for the Pike Tank by sending email to jukka.Merenluoto@dimecc.com
2. Ask questions by email or in Q&A Skype call on 16th or 18th Oct (14.00 GMT+3)
3. Prepare your solution
4. Submit your proposal by 3rd Nov
5. Pitch your solution at Pike Tank on 1st Dec

Timeline

