

Get started in Responsible Research and Innovation

# **SEATRANSPORTATION:**

Turning sea transportation threats into sea transportation opportunities on the Baltic Sea



MARINA Project

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Science Centre AHHAA, Tartu, Estonia

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#### **Sea Transportation**

The economical promises of sea transport are huge: minimal infrastructure requirements, advancing cargo ship technology, unused transport capacity. But if you compare the net impact on the environment of different types of transportation, the winner is not so clear.

However transport by ships, loading in the docks and continuing on land are all interconnected with bottlenecks appearing if different sectors fail to work together.

16 participants from different stakeholder groups expressed their opinion in this participative workshop:



## Responsible Research and Innovation

Responsible Research and Innovation (RRI) engages and brings together all stakeholders, creates dialogue and facilitates knowledge-sharing. It ensures the sustainable use of natural resources and makes sure that the needs of citizens and society are integrated into research and innovation. Participants put forth proposals of collective solutions based on the six RRI dimensions:



Pictograms courtesy of RRI Tools - https://www.rri-tools.eu/

#### **Workshop Outcomes**

The participants defined 3 main clusters of actions. Each group calls for the combined actions of at least two target groups, which confirms the need for collaboration between stakeholders.

Each action was linked to several RRI dimensions, and **Governance** and **Science Education** were the most important dimensions in this workshop.



### Responsible Research & Innovation Dimensions







- Constantly cover marine issues competently in media
- Popularize marine topics and showing its benefits and environmental friendliness, educating people on the matter
- Focus more on developing marine education and related research and development

- Develop marine technologies in Estonia
- Create a test area for self-sailing ships on the sea
- Improve port services even further, taking into account the interests of external stakeholders as well
- Keep the stability in both the prices set by the state as well as the in the influence of external factors that could have an effect on the work of the port and the terminals
- Ensure stability in the logistics network and equal funding opportunities both in the public as well as in the private sector
- Stakeholders get together and find their common needs

The MARINA Project is funded by the EU Programme Horizon 2020. 14 partners across Europe are joining forces for a period of 36 months to bring together stakeholders around marine issues and societal challenges and propose RRI driven roadmaps of actions to respond to them.

# 45 workshops on marine issues in the European Union



- Marine biotechnologies
- Climate change
- Deep-sea mining
- Tourism and coastal cities

- Renewable energy
- Fishing and aquaculture
- Sea transportation
- Pollution caused by human, land and sea pressures

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