

# Blue Growth and Sea Transportation in Turkish Straits System (TSS)



MARINA Project  
 Local Mobilisation and Mutual Learning Workshop Phase 2  
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## Maritime transport

The Turkish Straits System (TSS) is the only sea transportation route for larger vessels of the Black Sea countries and almost 90% of international trade is conducted through shipping. Additionally, the TSS acts as a biological corridor between two distinctly different basins (Mediterranean Sea and Black Sea) and has a fragile marine ecosystem. The purpose of the workshop organized by Istanbul University was to discuss what RRI actions are needed to make maritime transport sustainable in TSS? 21 participants from different stakeholder groups took part:



## World Café Facilitation Method

Designed to create a welcoming environment, this method ensures that participants intentionally connect multiple ideas and perspectives on a topic by engaging in several rounds of small-group conversations.

## 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:



Fig. 1 – RRI dimensions

## Workshop Outcomes

The participants generated **41** ideas of actions from the very general to the very specific. Each action was linked to at least one RRI dimension, and **Governance** and **Science Education** were the most important/common dimensions in this workshop. The chief message was the importance of maritime transportation sustainability that could be achieved by improving legislation as well as education, both of which increase environmental awareness and vocational training of policy makers and implementers.

### ROADMAP OBJECTIVES

### TARGET STAKEHOLDERS

### RRI DIMENSIONS

#### Improve Legislation (20 actions)



- o Integration of maritime and investment policies (12 votes)
- o Regulation of substandard ships including mandatory insurance with Turkish P&I (7 votes)
- o Increase control of disposal ballast water in Turkish Straits System (TSS) (6 votes)

#### Improve Education (10 actions)



- o Integration of the blue growth into the education system (14 votes)
- o Improvement of vocational training and recruitment of trained personnel to maritime sector (12 v)
- o Run programs to increase maritime culture, particularly to younger generation (9 votes)
- o Changing existing men dominated language in order to encourage more women into the maritime industry (6 votes)

#### Usage of New Technologies (6 actions)



- o Clean energy in marine transportation should be initiated and tested in pilot zones (16 votes)
- o New technology such as drones and AUVs should be utilized in controlling emission levels and ballast water discharges (12 votes)
- o Technological capacity of shipyards should be increased through extending new technology applications (11 votes)

#### Protect Marine Ecosystem (5 actions)



- o Protection of the existing marine ecosystem (sustainability) (21 votes)
- o Economic value of TSS should be determined (17 votes).
- o Impacts of maritime activities and ship-based noise on migration patterns of marine life should be investigated and counter measures should be taken (14 votes)

\* For each group most voted 3 actions the only action with gender equality dimension were presented

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.

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