

SEA TRANSPORTATION

What Responsible Research and Innovation (RRI) actions are needed for sustainable Maritime Research, Technological Development and Innovation (RTDI) by 2030?



MARINA Project

11th April 2018 – International Mobilisation and Mutual Learning Workshop

House of Arts and Literature, Larnaca, Cyprus

Organisers: Cyprus Neuroscience & Technology Institute (CNTI)
and XPRO Consulting Limited

Sea Transportation

Cyprus has the 11th largest merchant fleet in the world and the 3rd largest fleet in the European Union. Under the Cyprus flag there are more than 1,800 ocean-going vessels with 21 million tons of gross volume. The marine industry contributes with about €1 billion per year to the Cypriot economy, accounting for over 7% of GDP (including auxiliary services) and directly employing 4,000 shore-based personnel and 55,000 seafarers from around the world.

The purpose of the workshop was to discuss how to develop Maritime Research, Technological Development and Innovation on a sustainable manner in Cyprus and beyond. 14 participants from different stakeholder groups expressed their opinion in this participative workshop.

Citizens



**Business
representatives**



Policy makers



Researchers



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:



Workshop Outcomes

The participants defined 3 main groups of actions requesting for the combined efforts of at least two target groups, which confirms the need for collaboration between stakeholders.

Each agreed action was linked to several RRI dimensions and particularly to **Open Access** of scientific results and to **Science Education**.

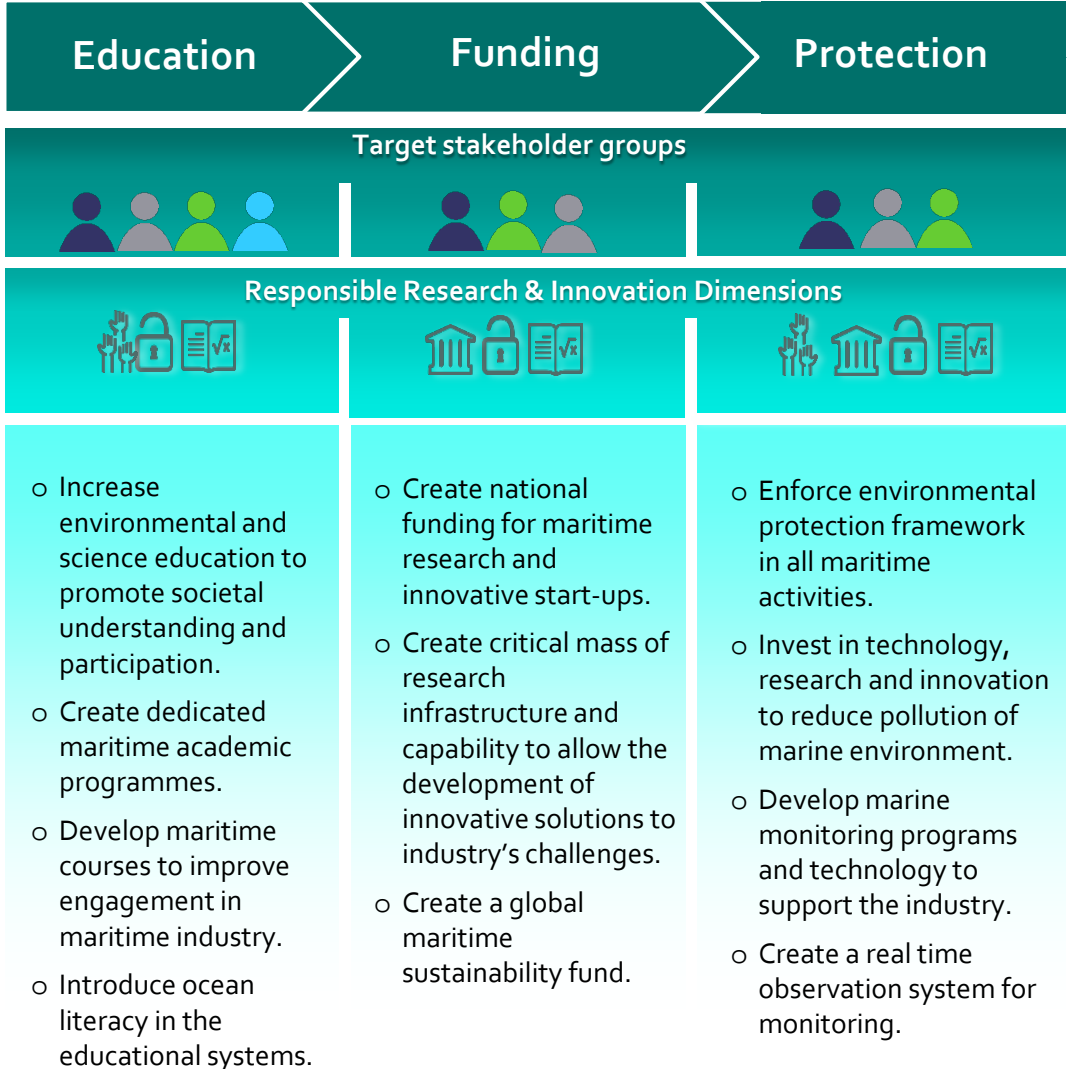


Fig. 2 – Actions suggested by the participants

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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