



Get started in Responsible Research and Innovation

MARINE CHANGE CAUSED BY CLIMATE & TOURISM AND COASTAL CITIES

*Sun, Sand...and Safety!
How long will we have beaches?*



MARINA Project

21st January 2017 | Mobilisation and Mutual Learning Workshop | Portugal



The European Centre
for Information on Marine
Science and Technology

MARINE CHANGE CAUSED BY CLIMATE AND TOURISM AND COASTAL CITIES

Monday, 6th January 2014. Storm Hercules is on its way to the coasts of Europe. Potential record-size waves, gale-force winds and huge storm-surge are forecasted. The morning after shows once again how serious coastal erosion is in Portugal.

Nearly 85% of the country's GDP is generated within 60 km from the coast. Tourism is one of the most important economic activities. In 2013, nearly 14 million tourists came to Portugal mostly for its Sun & Sand offer. As beaches shrink and tourism increases, a new vision for the coast is needed. Safe beaches must be assured for those who live, work or spend leisure time by the coast in a sea level rise context.

32 stakeholders from different groups expressed their opinion in this workshop:

Citizens



Industry



Policymakers



Researchers



NGOs



RESPONSIBLE RESEARCH AND INNOVATION

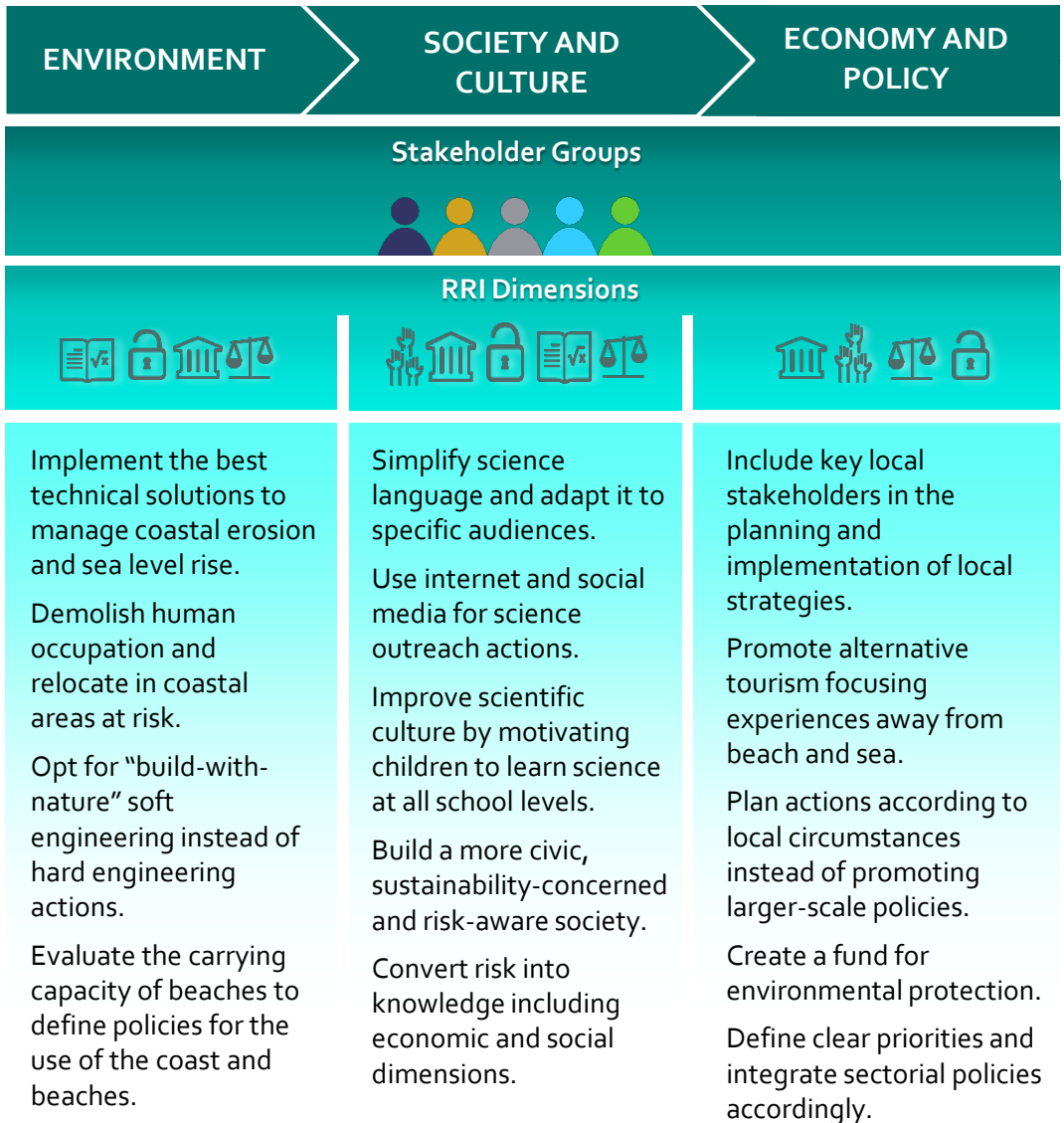
Responsible Research and Innovation (RRI) engages and brings together all stakeholders, creates dialogue and facilitates knowledge-sharing. It ensures the sustainable use of natural resources and makes sure that the needs of citizens and society are integrated into research and innovation. Participants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



WORKSHOP OUTCOMES

Participating stakeholders identified three main challenges. The resulting groups of actions relate differently to the six RRI dimensions. Therefore the strategies are transversal and able to benefit from RRI in various manners. Each of them will involve different stakeholders' groups.

Governance and **Science Education** were the most important dimensions in the strategies developed in this workshop by the stakeholders.



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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