

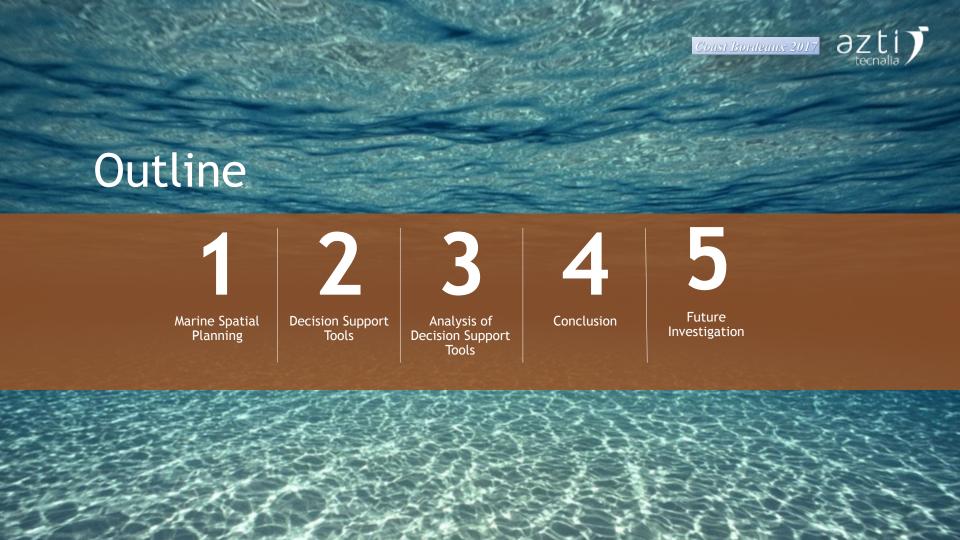




# Decision Support Tools in Marine Spatial Planning: Present Applications, Gaps and Future Perspectives

Kemal Pınarbaşı, Ibon Galparsoro, Ángel Borja, Vanessa Stelzenmüller, Charles Ehler, Antje Gimpel





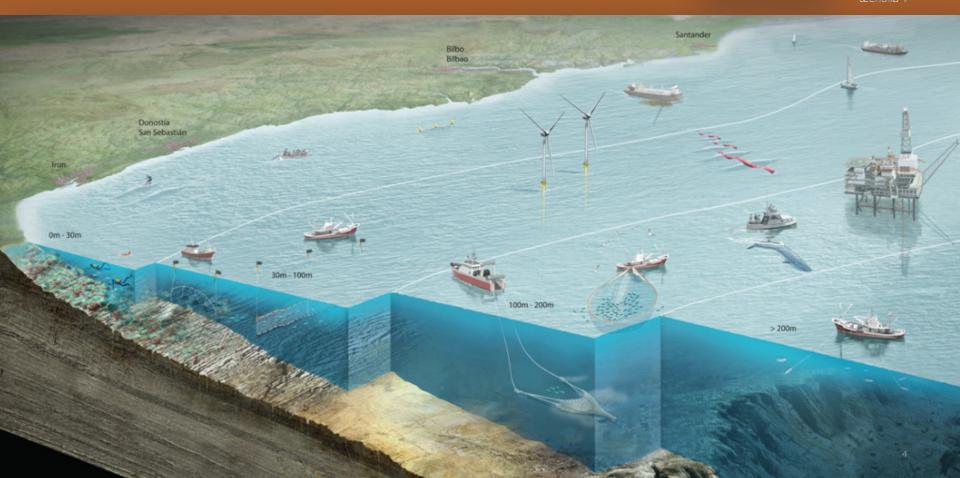




# **UNESCO Definition:**

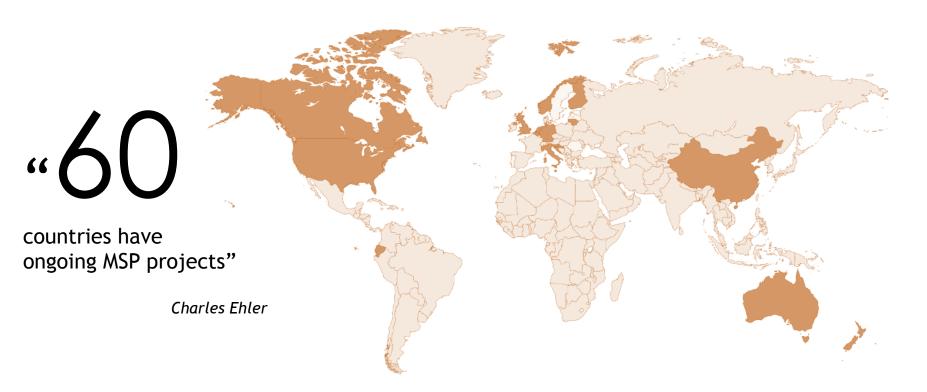
Marine spatial planning (MSP) is a public process of analyzing and allocating the spatial and temporal distribution of human activities in marine areas to achieve ecological, economic, and social objectives that usually have been specified through a political process.









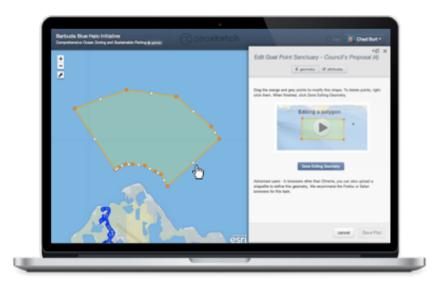






DSTs are software-based products that provide support in evidencebased decision making process,

- Clear steps
- To achieve optimal decision
- Improve productivity
- Recommendations
- According to user's input
- Primary assistant for planners



(Rose et al. 2016)



## Characterization

Fields related with the main charachteristics and categorization of DSTs

#### Technical

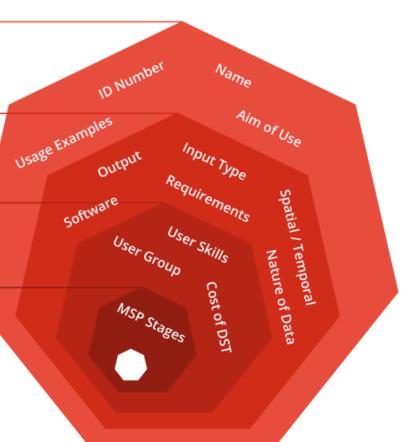
Fields which clarify technical properties of DSTs

## **User Related**

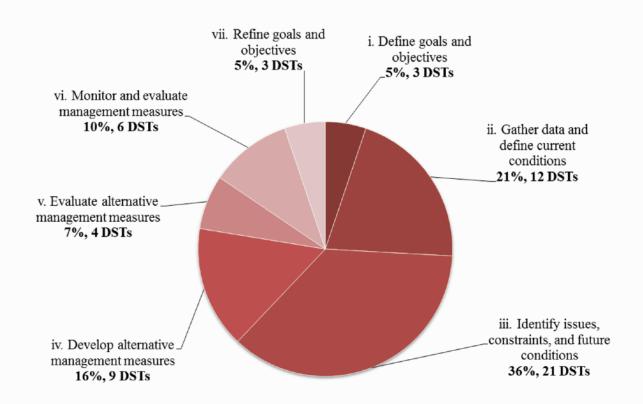
Fields that can show the relationship between users and DSTs

# **Stages**

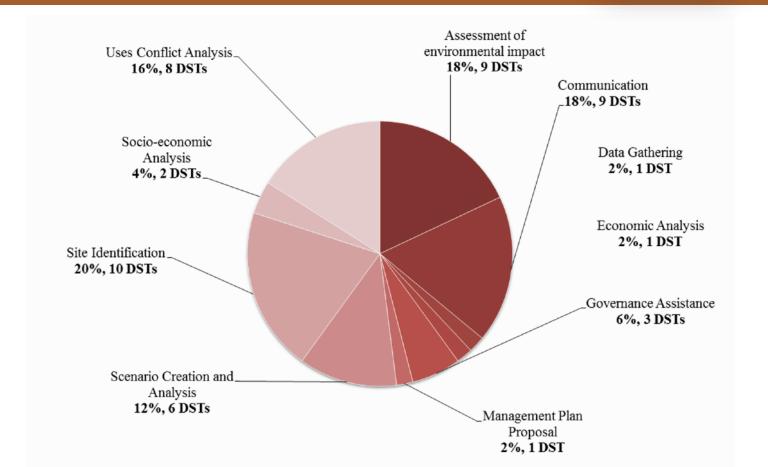
Orientation of DSTs in different MSP Stages

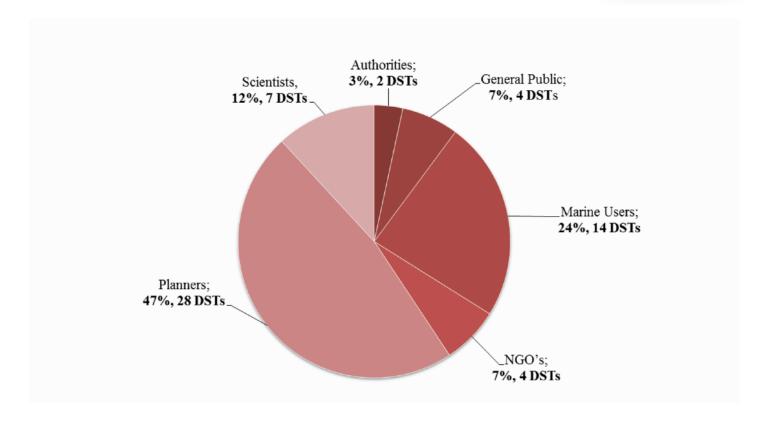






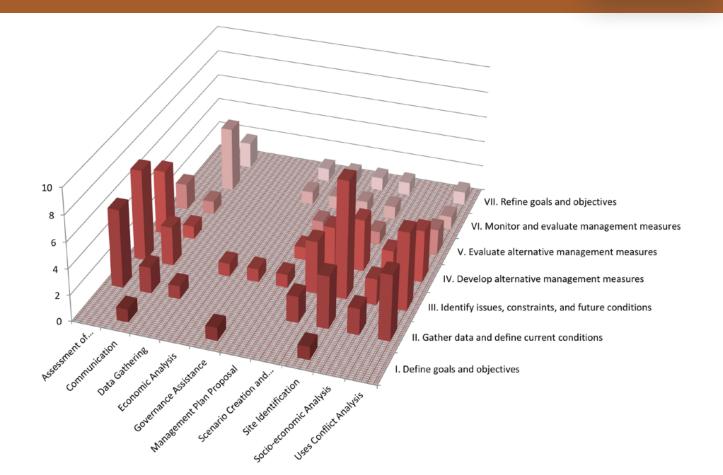






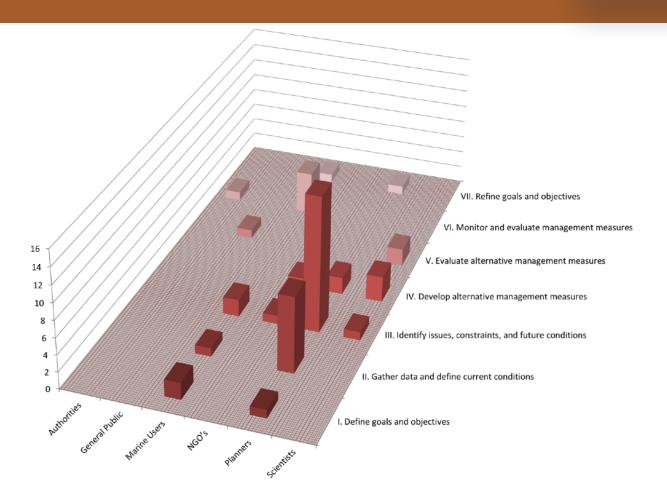






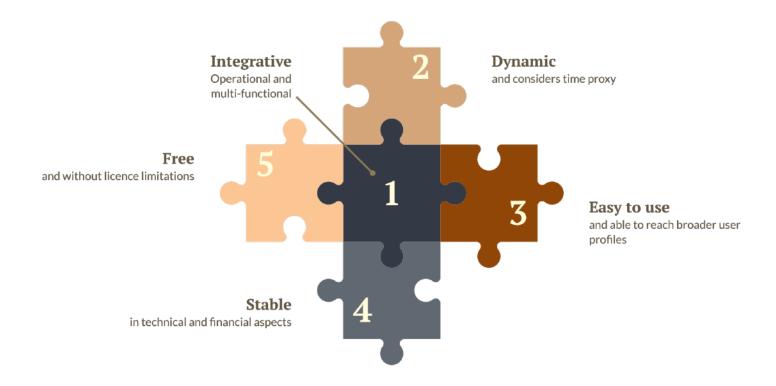






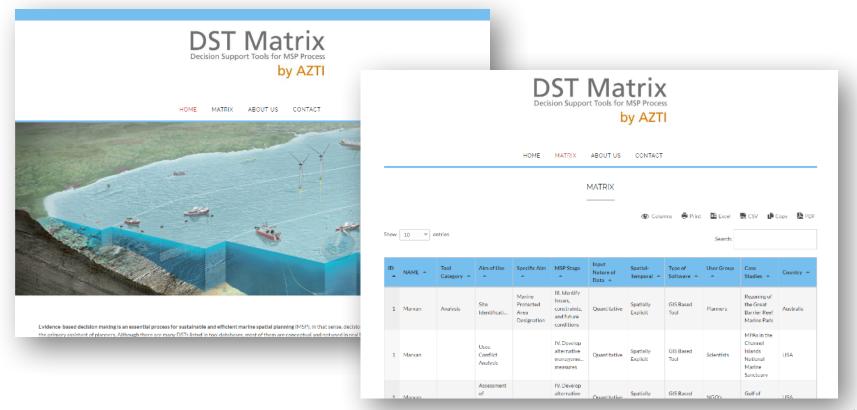














A questionnaire to clarify main gaps and possible developments of DSTs according to opinions of experts who were actively involved in MSP processes

http://dst.azti.es

Introduction
Thank you for your time to complete this questionnaire;
Evidence-based decision-making is an essential process for sustainable, effective, and efficient marine spatial planning (MSP); and decision support tools (DSTs) could be considered to be the primary assistant of planners.
DSTs are software-based intermediaries that provide support in evidence-based decision- making processes. The application of tools lead users (including managers but also, scientists, industry, or NGOs), through clear steps and can finally support decision making.
As a further step of our comprehensive review (http://dst.azti.es), we aim to clarify main gaps and possible developments of DSTs according to opinions of experts who were actively involved in MSP processes
Your answers may help us to reach our objective. So let's start!
1. What is your age?
17 or younger
○ 18-20
O 21-29
30-39
O 40.49
O 50-59
○ 50 or older
2. In what country do you work?

**Decision Support Tools in Marine Spatial Planning Processes** 



Feasibility analysis with Bayesian Belief Network for marine activities;

- Offshore Wind Platforms
- Aquaculture
- Fishery

