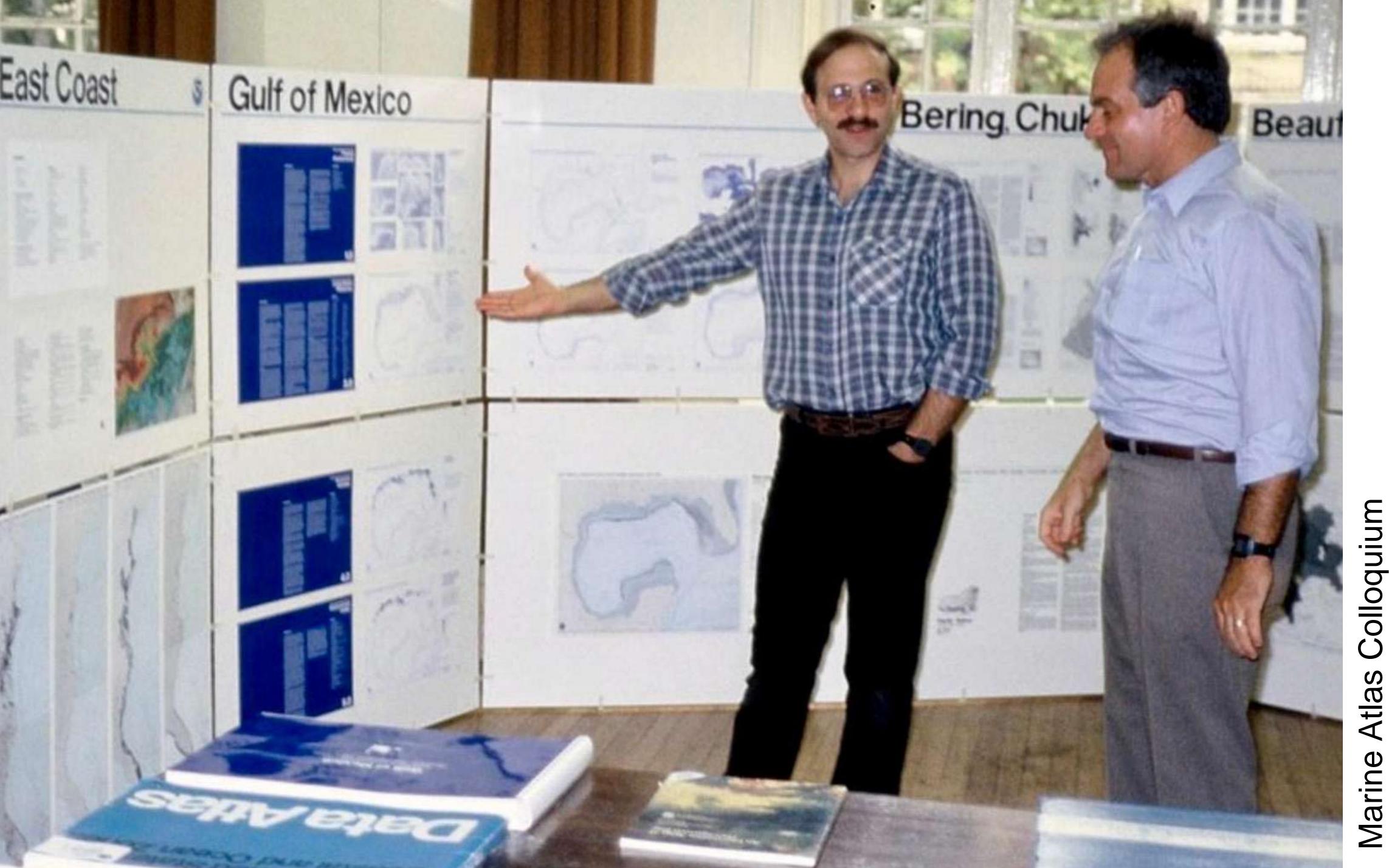
# Marine Spatial Planning: the International Picture and Emerging Good Practice

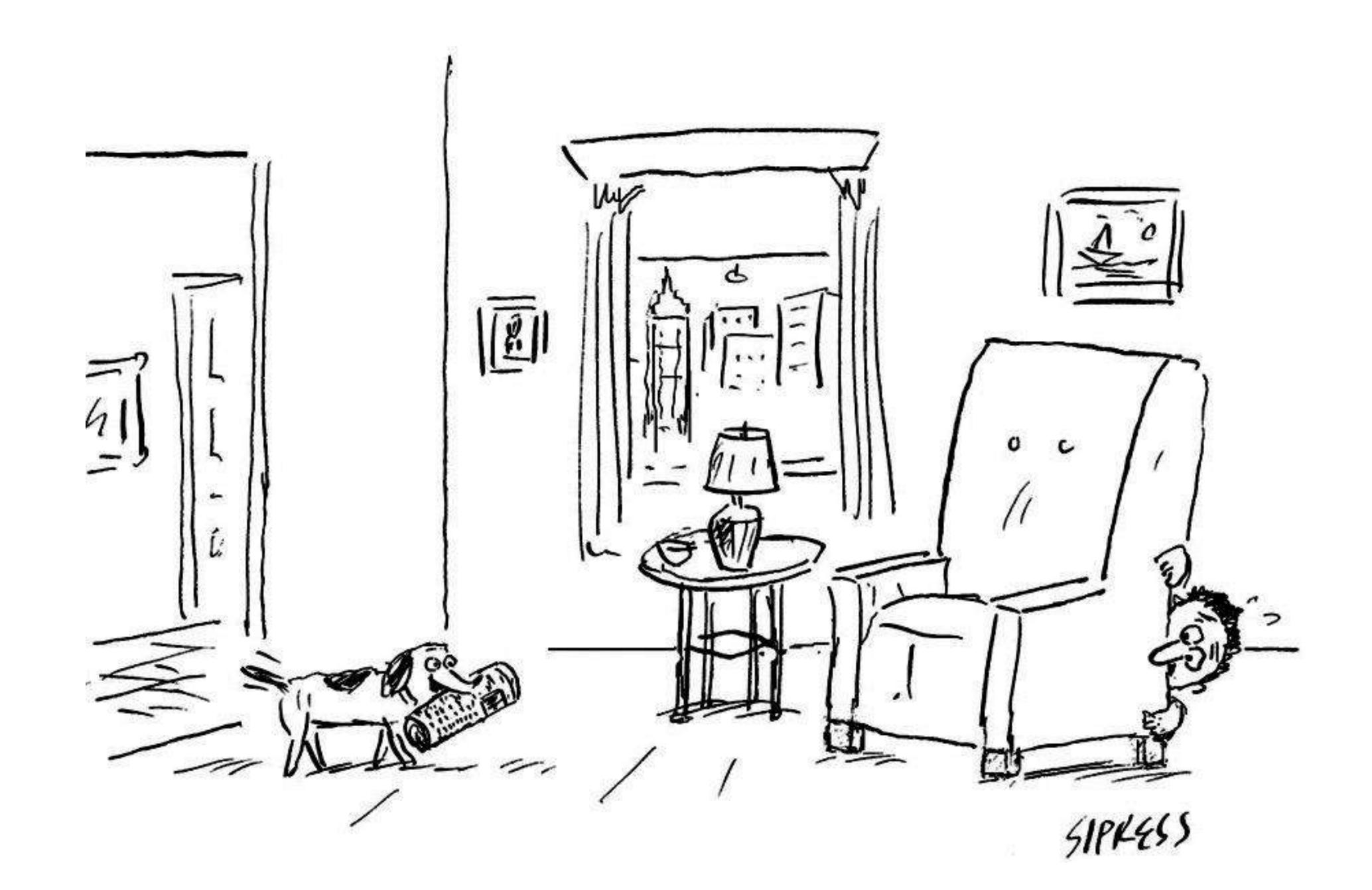
Charles N. Ehler
Ocean Visions Consulting and
Intergovernmental Oceanographic Commission
Paris, France

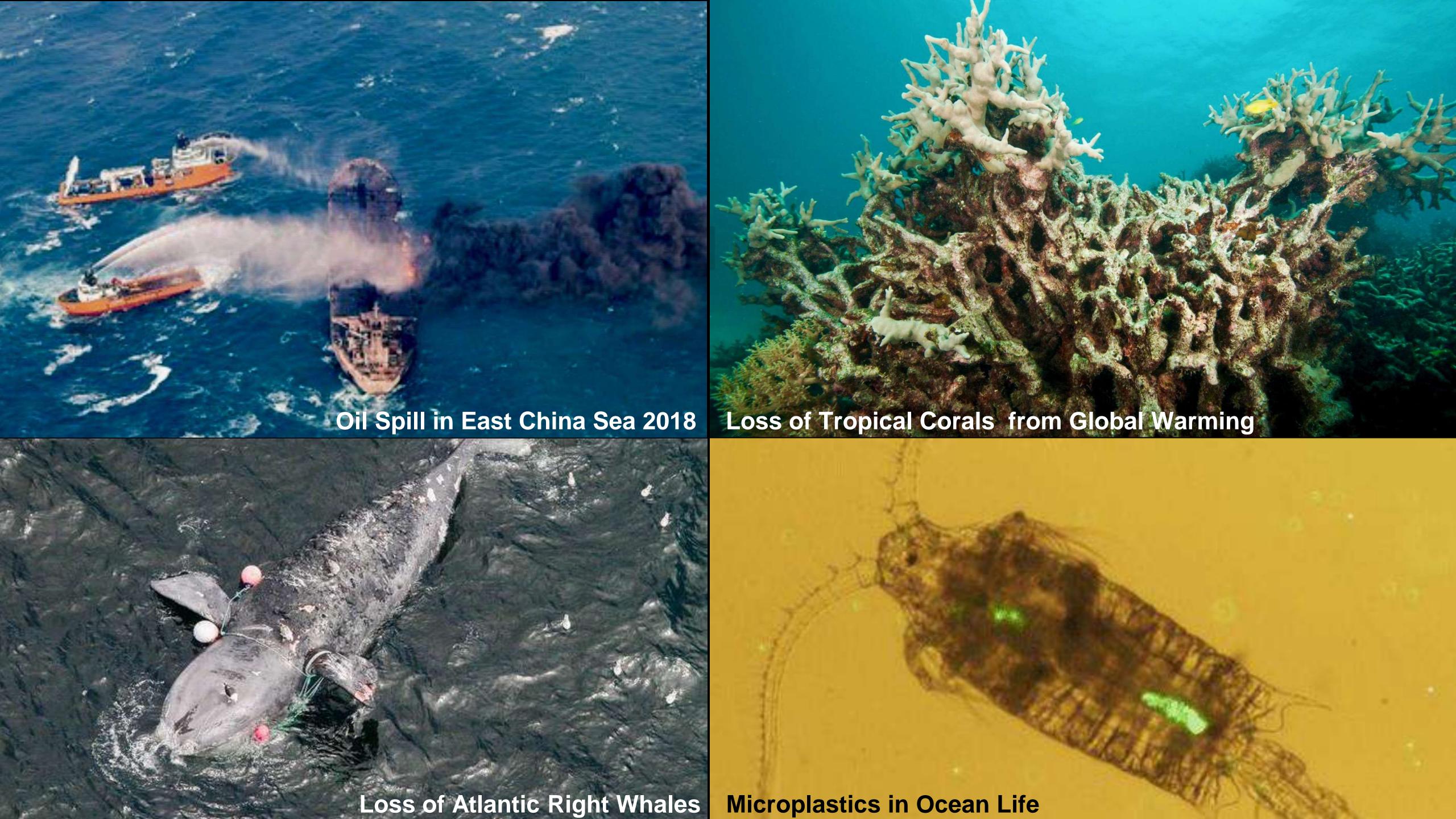
Coastal Futures 2018
Royal Geographical Society
London, England

17-18 January 2018



Marine Atlas Colloquium Royal Geographical Society London 1985







#### Preview

- Marine spatial planning (MSP) is alive and well; in fact it's flourishing
- It's grown from a concept to world-side application in about 70 countries over the past 10 years (45% of countries with marine waters)
- It's not a panacea for all marine management problems (nor is ecosystem-based management)
- By 2030 about half of the world's EEZs could be covered by government-approved marine spatial plans

#### For more information on MSP

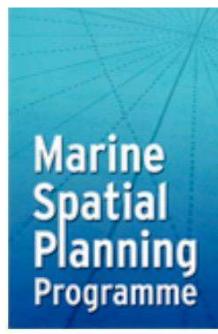


Intergovernmental Oceanographic Commission United Nations Educational, Scientific, and Cultural Organisation (UNESCO)

Marine Spatial Planning Website

http://msp.ioc-unesco.org

#### www.msp.ioc-unesco.org





**United Nations** Educational, Scientific and **Cultural Organization** 





Commission **World Applications** References **MSP Guides MSP Good Practices About** Balancing sustainable use and conservation through Marine Spatial Planning

"By failing to plan, we are planning to fail."

#### Benjamin Franklin

American polymath and A "Founding Father" of USA 1706-1790

Franklin lived 20 years in London including as colonial representative during the Seven Years war; His birthday was 17 January—312 years ago

"Environmentalists have failed perhaps more than any other set of advocates to project vision.

The best goal most of us who work toward sustainability offer is the avoidance of catastrophe.

We promise survival and not much more."

Donella Meadows

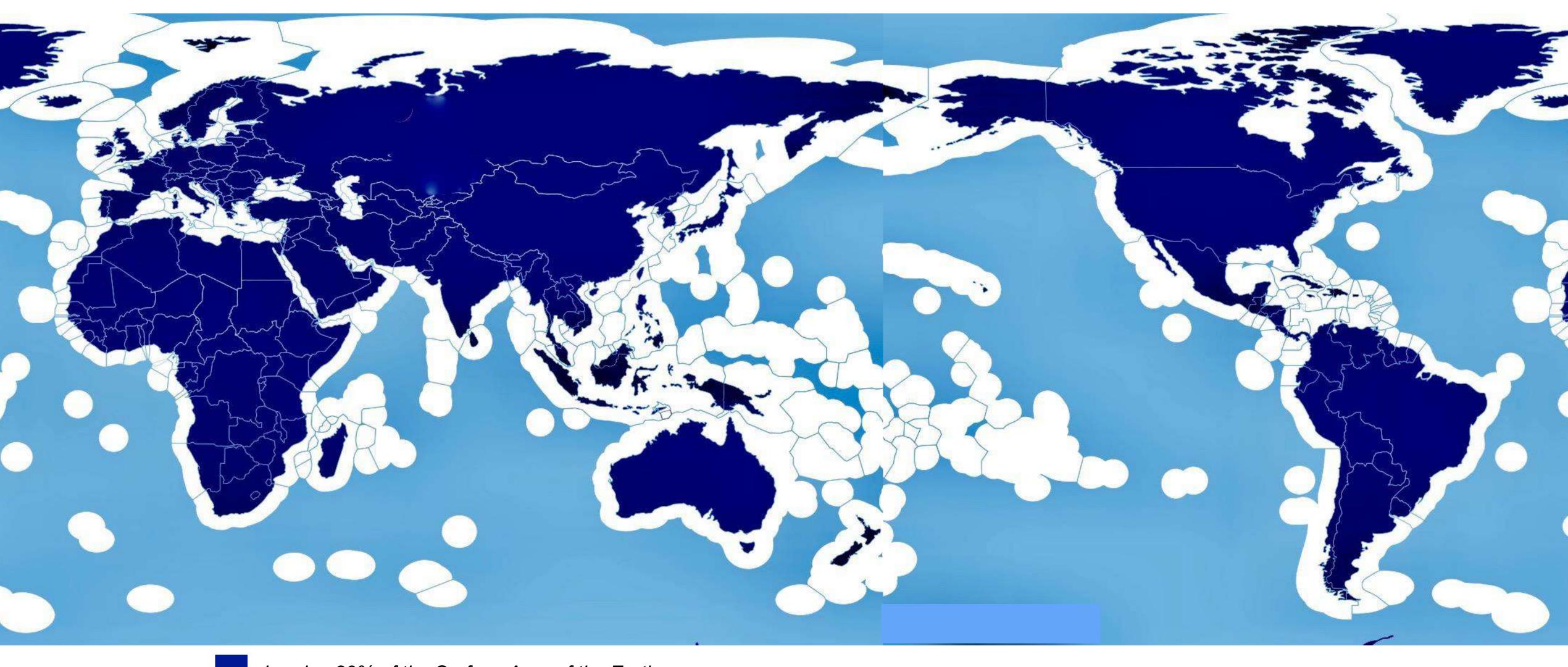
American scientist and futurist 1941-2001



## Definitions of the Cornerstones of Integrated Marine Management

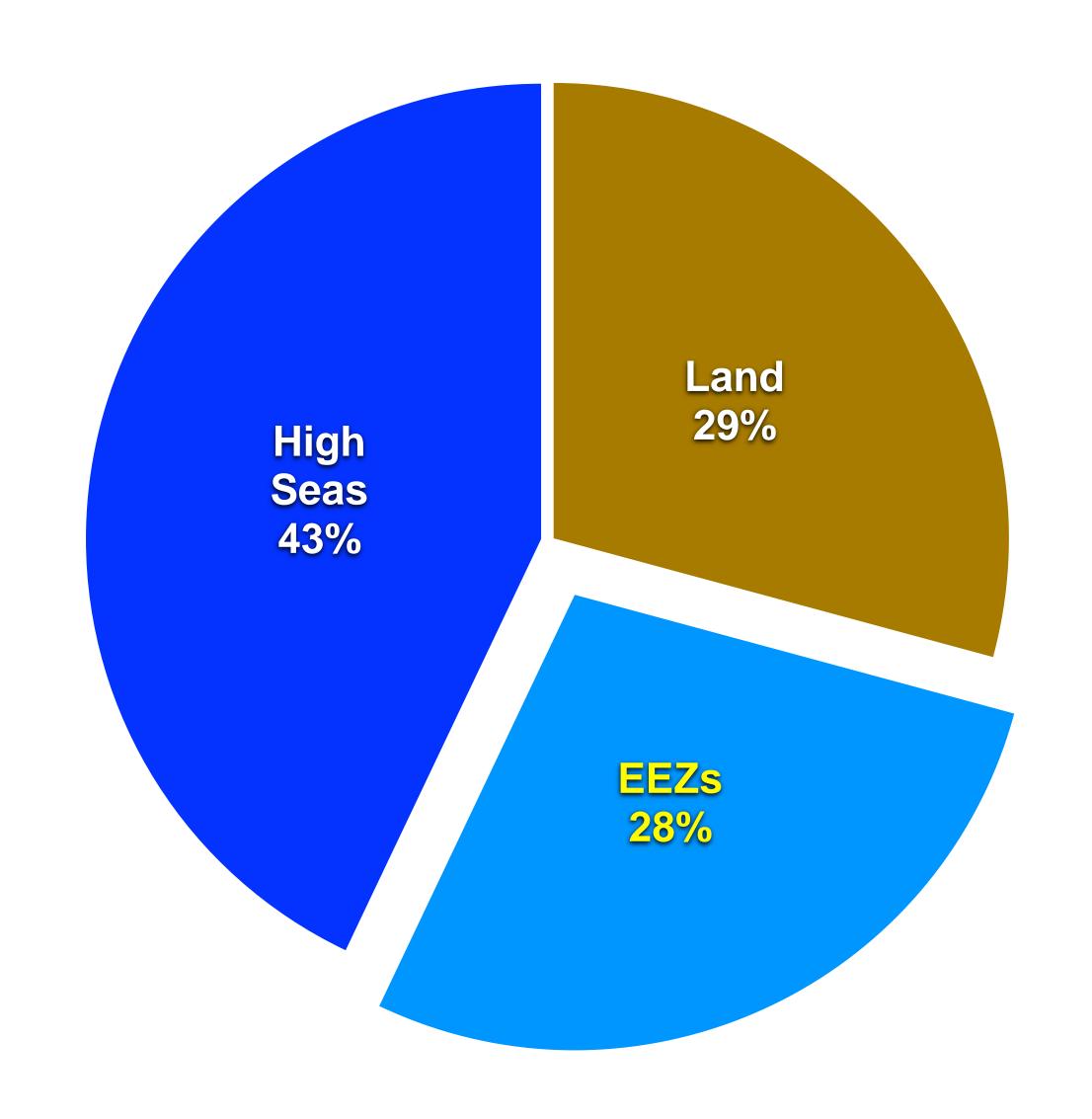
- Marine spatial planning is "...the public process of analysing and allocating the spatial and temporal distribution of human activities to achieve ecological, economic, and social objectives that are specified through a political process." (Ehler & Douvere, 2007)
- Ecosystem-based management is "...balancing human activities and environmental stewardship in a multiple use context." (Smith et al., 2017)
- Marine spatial planning is "...ecosystem-based management at sea." (Katona et al., 2017

#### **Exclusive Economic Zones of the World**

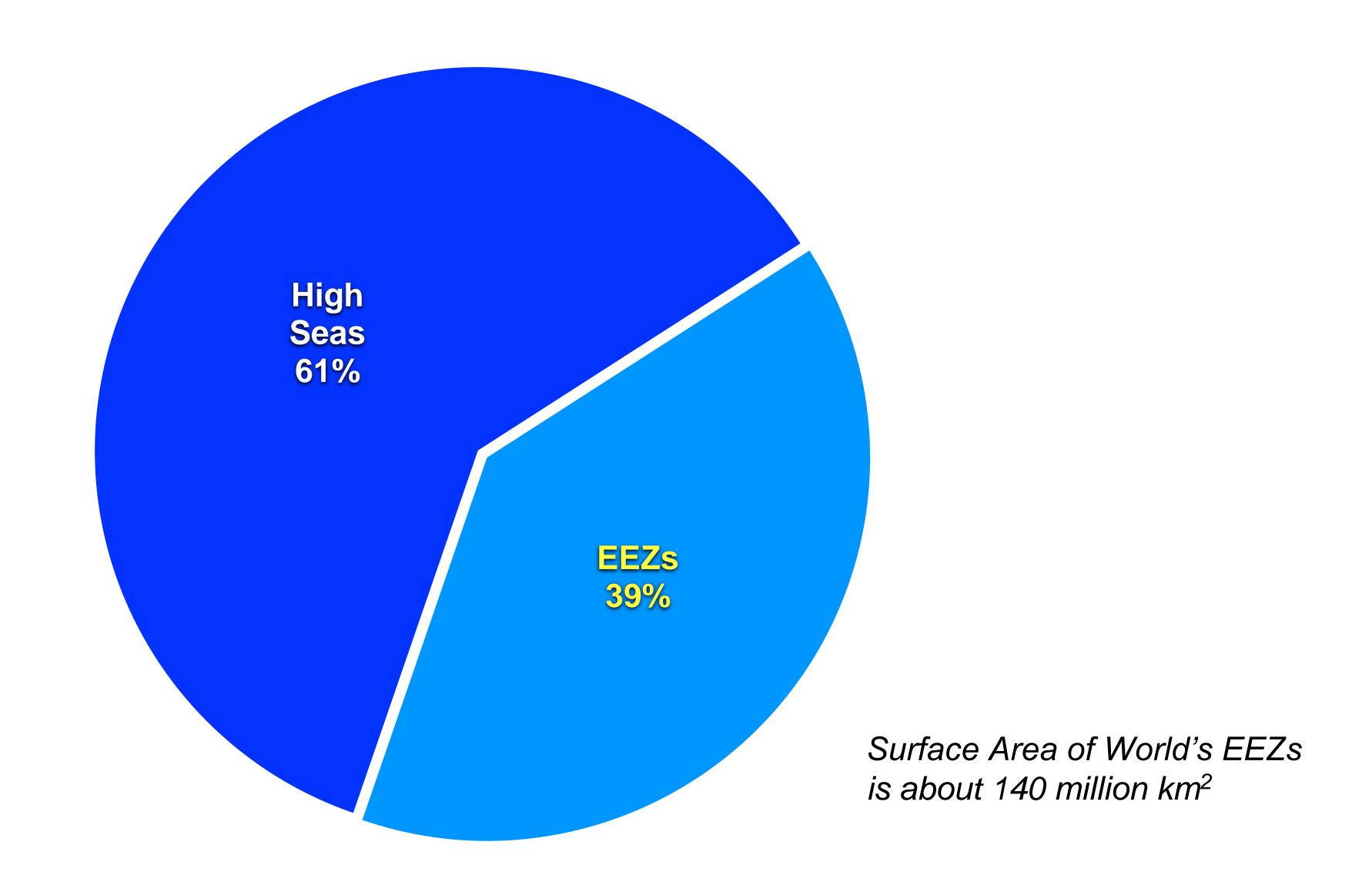


- Land: ≈ 29% of the Surface Area of the Earth
- Exclusive Economic Zones: ≈ 28% of the Surface Area of the Earth
- Areas Beyond National Jurisdiction (ABNJ) or High Seas: ≈ 43% of the Surface Area of the Earth

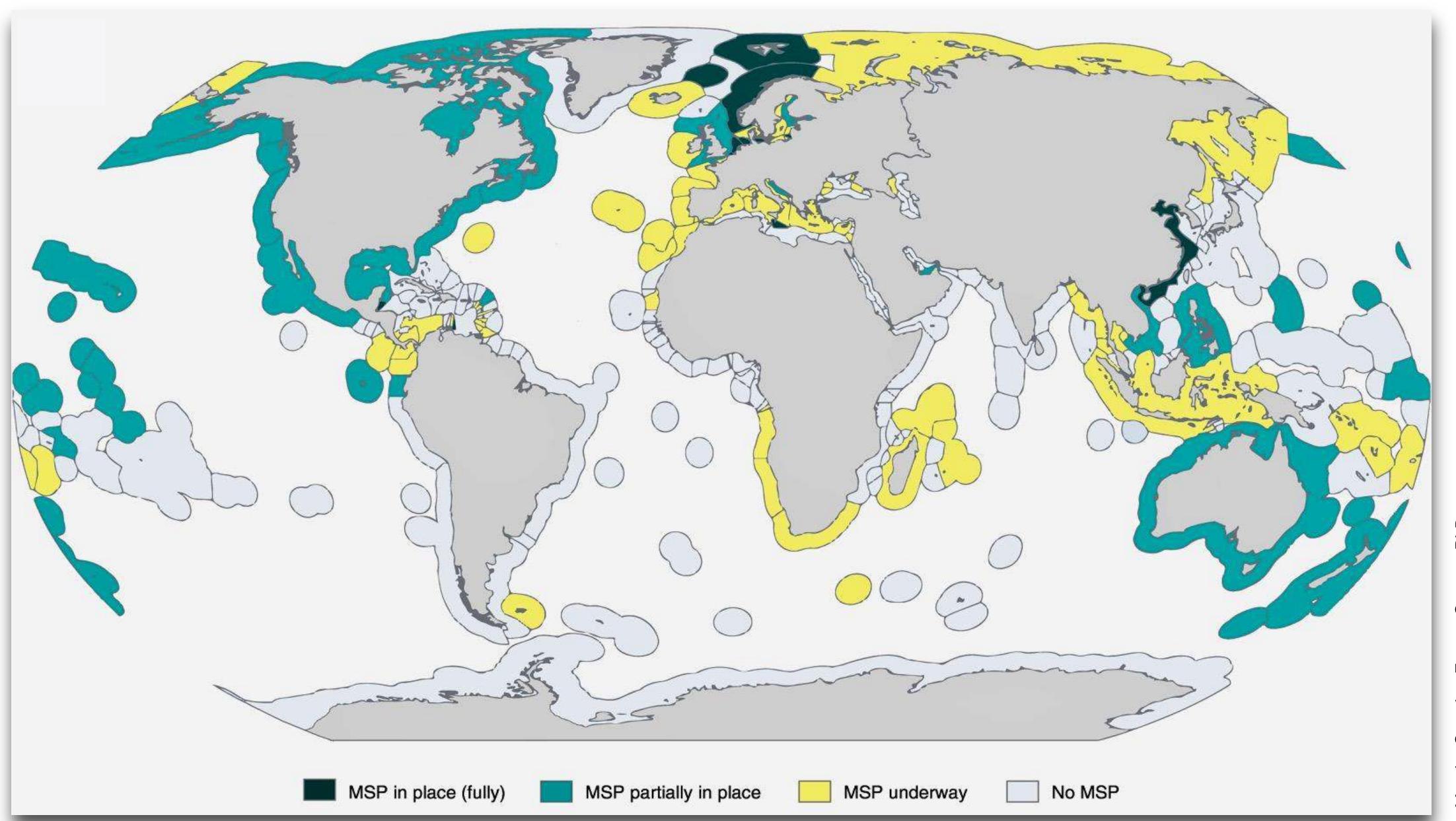
### Percentage of Surface Area of All World



#### Percent of World Ocean Surface Area

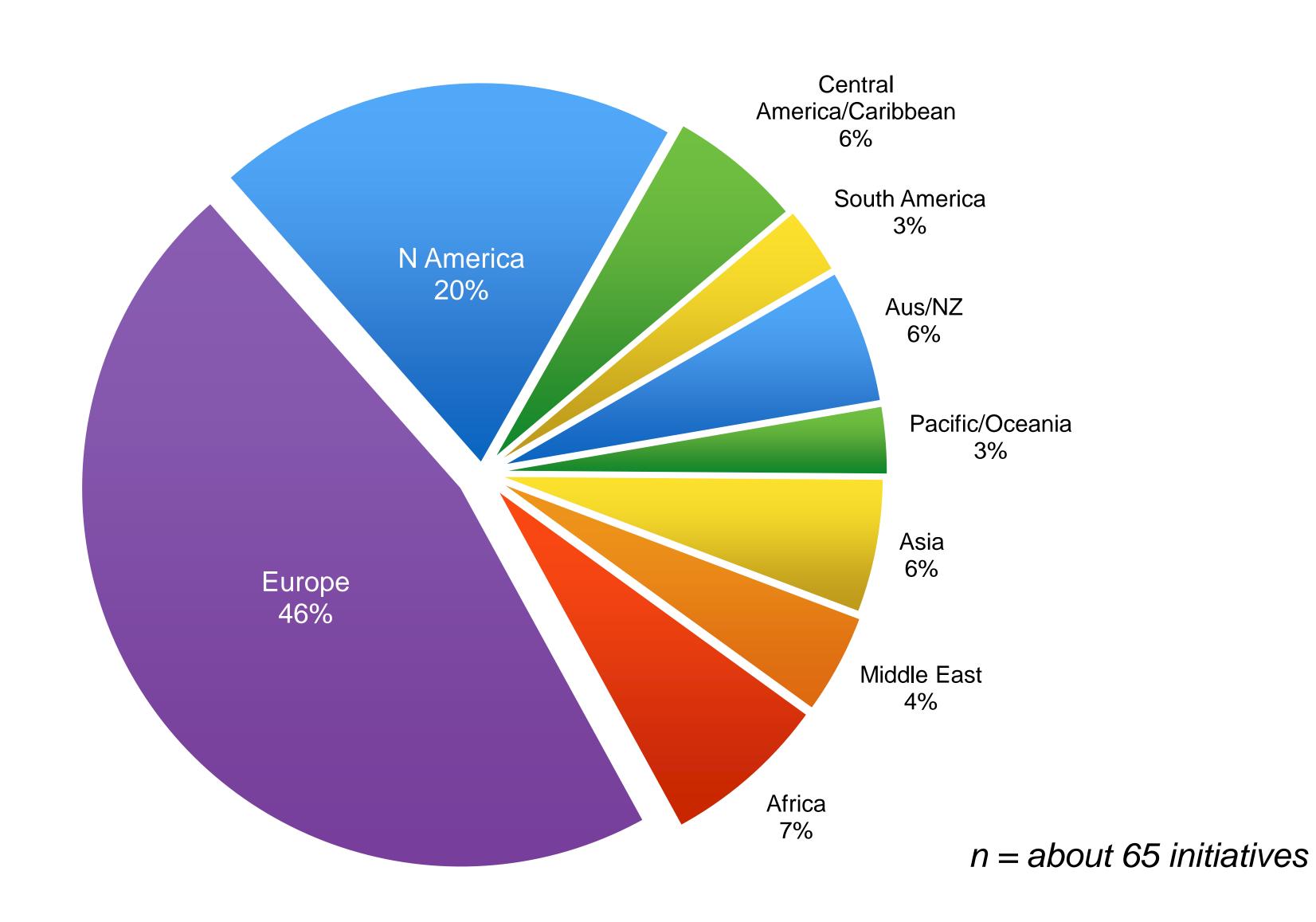


#### World-wide Distribution of MSP Initiatives, 2017

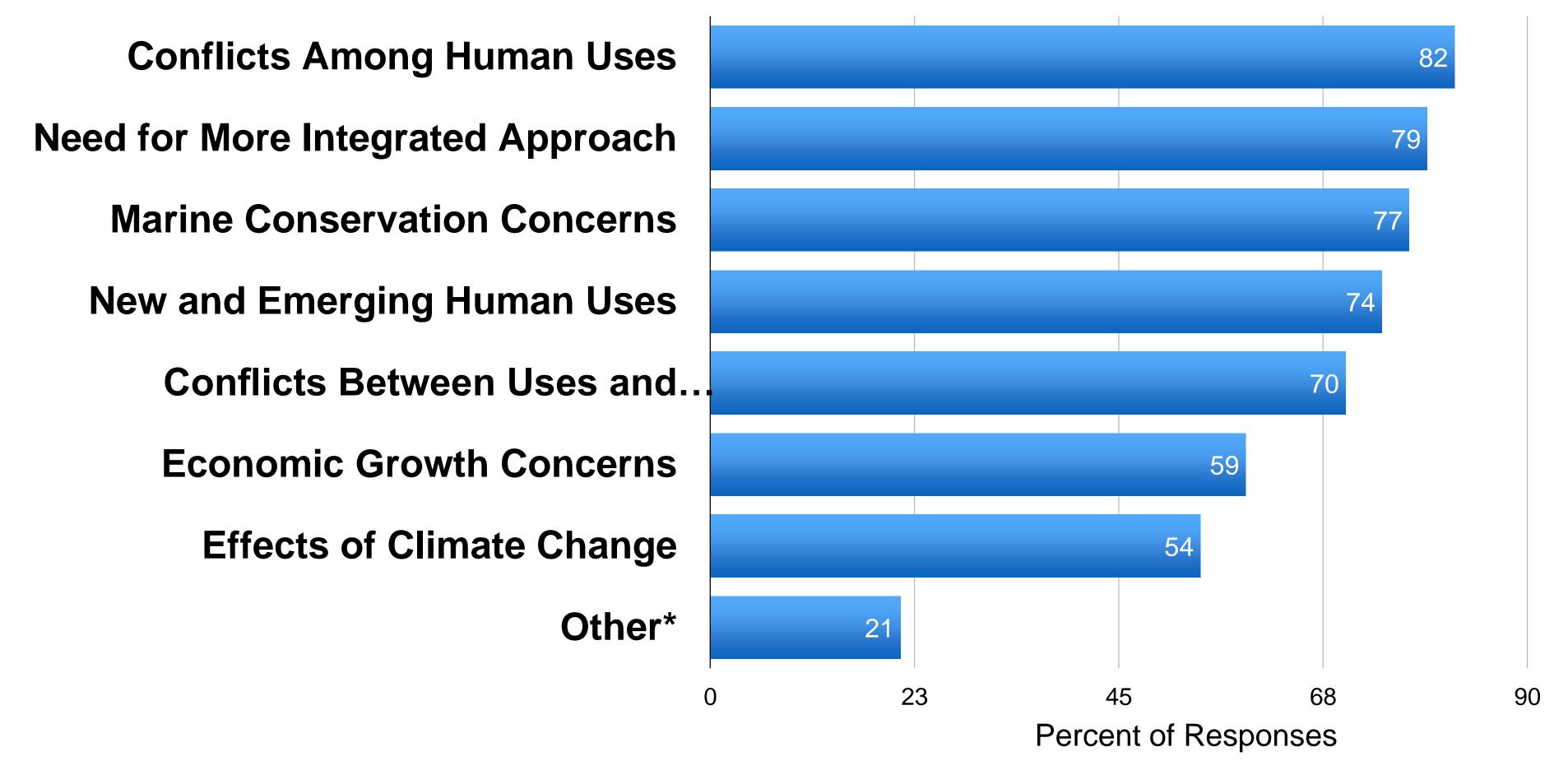


Map by Catarina Frazao Santos, Ph. MARE, University of Lisbon

#### Regional Distribution of Number of MSP Initiatives, 2017



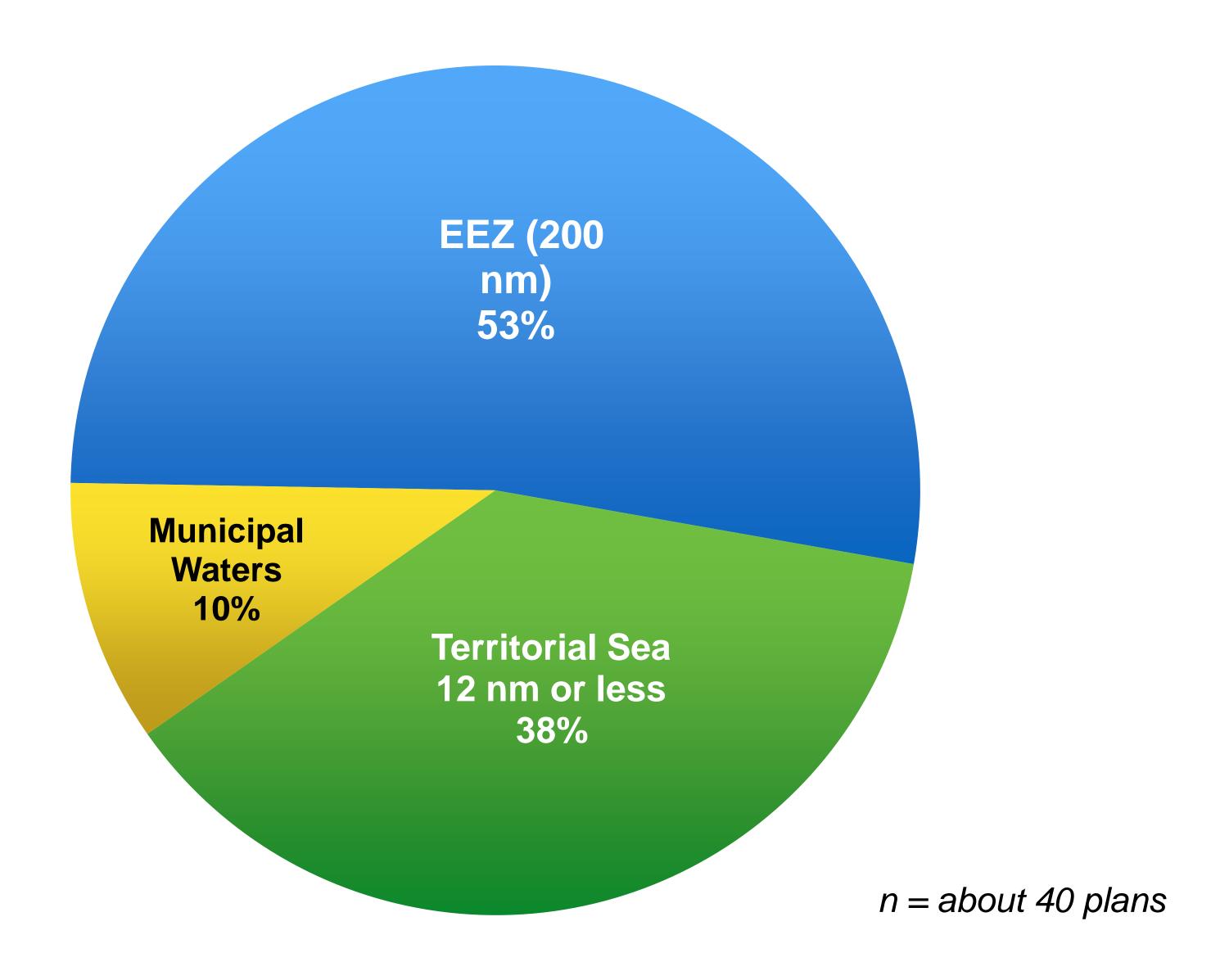
#### **Drivers of MSP**



Examples of "Other" Drivers:

- Comply with EU MSP Directive
- Transparency in decision making
- Trans-boundary planning advantages

### Scale of Spatial Coverage of MSP Plans, 2017



#### Norway



Meld. St. 10 (2010–2011) Report to the Storting (white paper)

First update of the Integrated Management Plan for the Marine Environment of the Barents Sea-Lofoten Area



Barrents Sea 2006; 2011 revised



Report No. 37 (2008–2009) to the Storting

Integrated Management of the Marine Environment of the Norwegian Sea

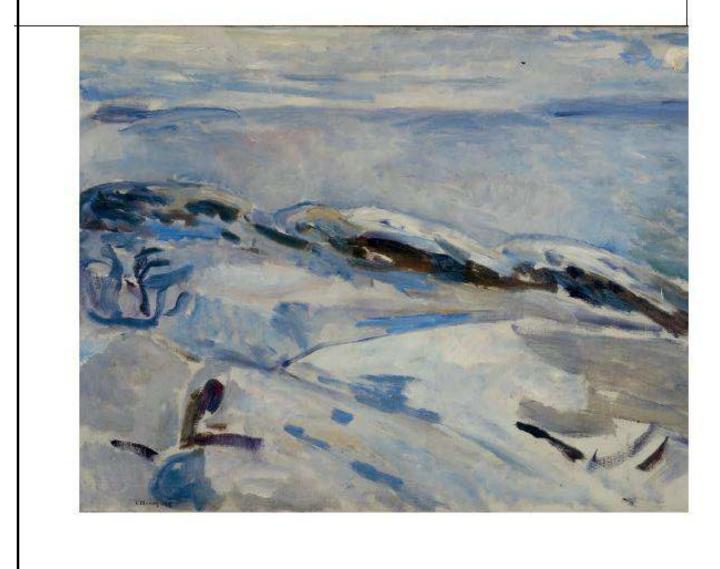


Norwegian Sea 2009



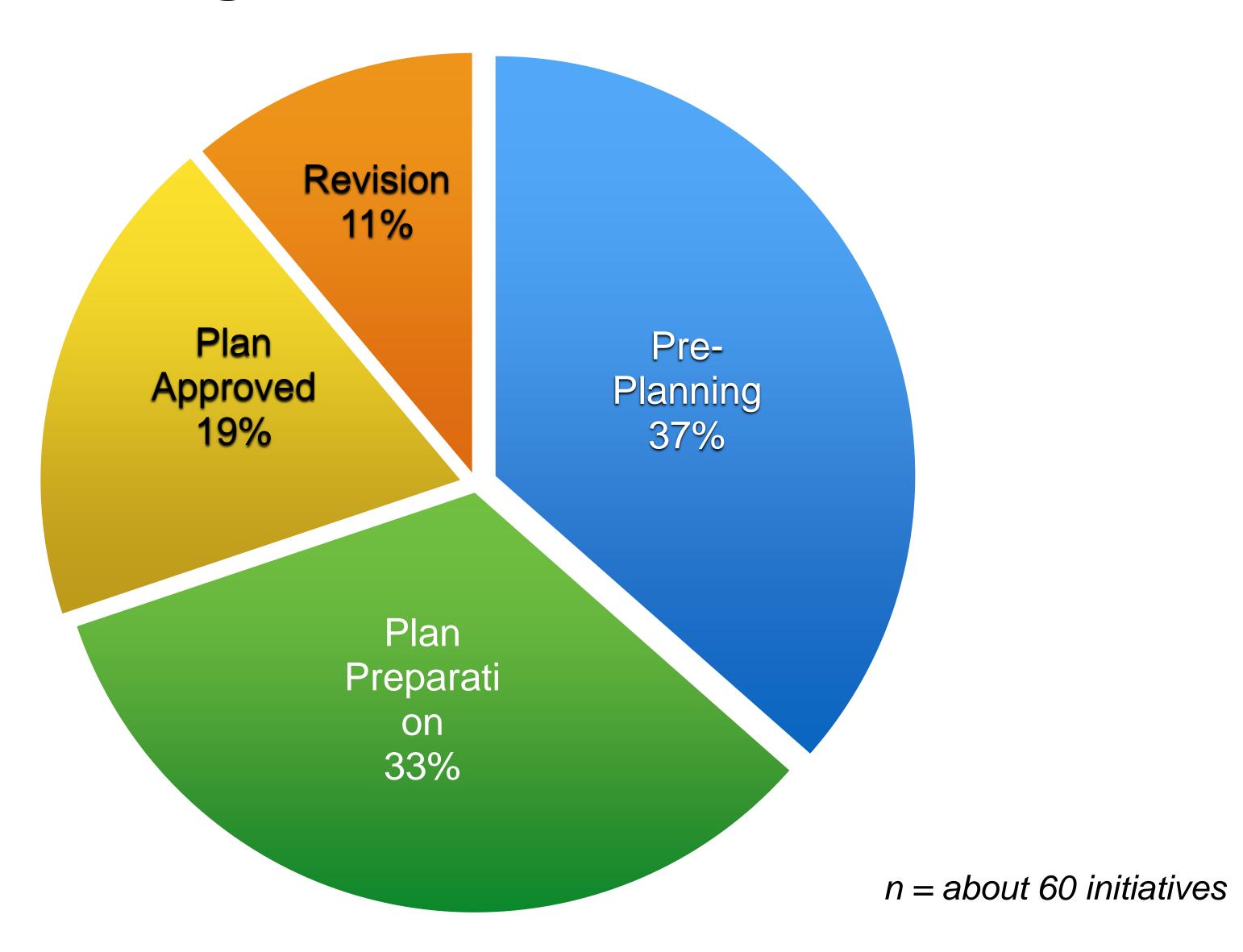
Meld. St. 37 (2012–2013) Report to the Storting (white paper)

Integrated Management of the Marine Environment of the North Sea and Skagerrak (Management Plan)

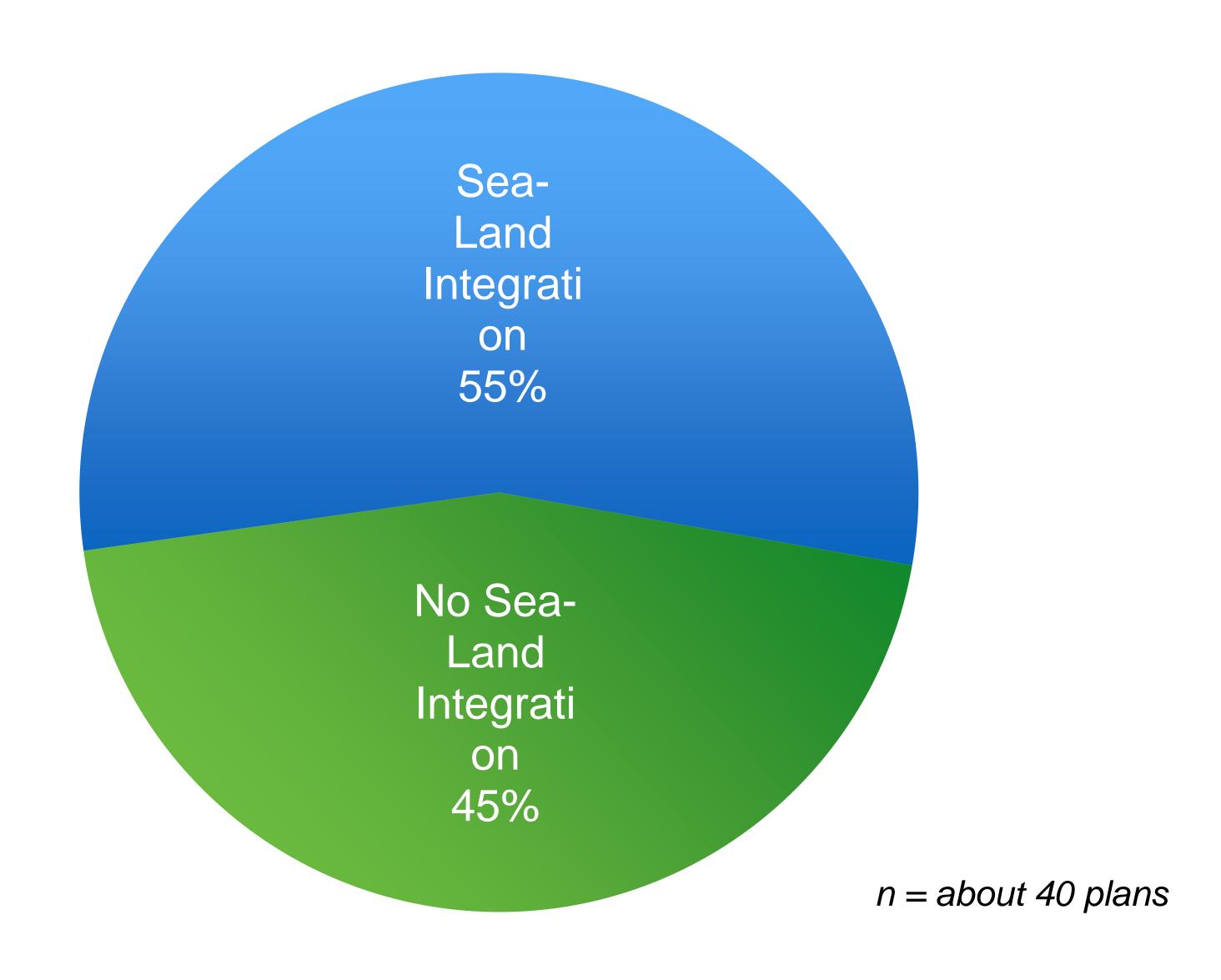


North Sea 2013

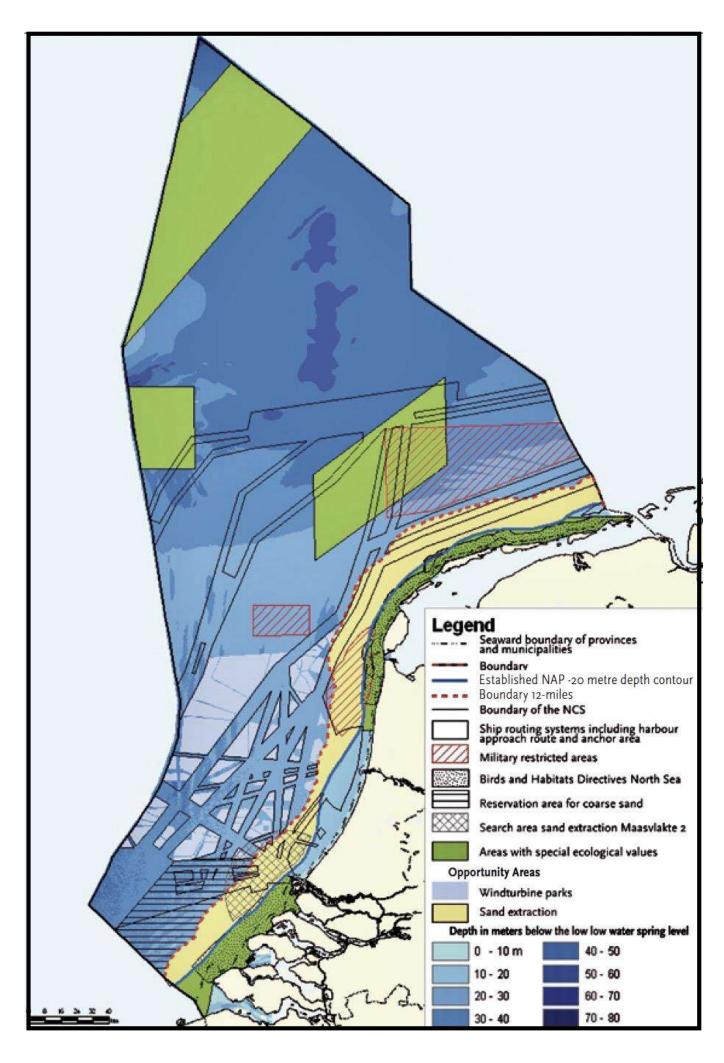
## Stage of MSP Initiatives

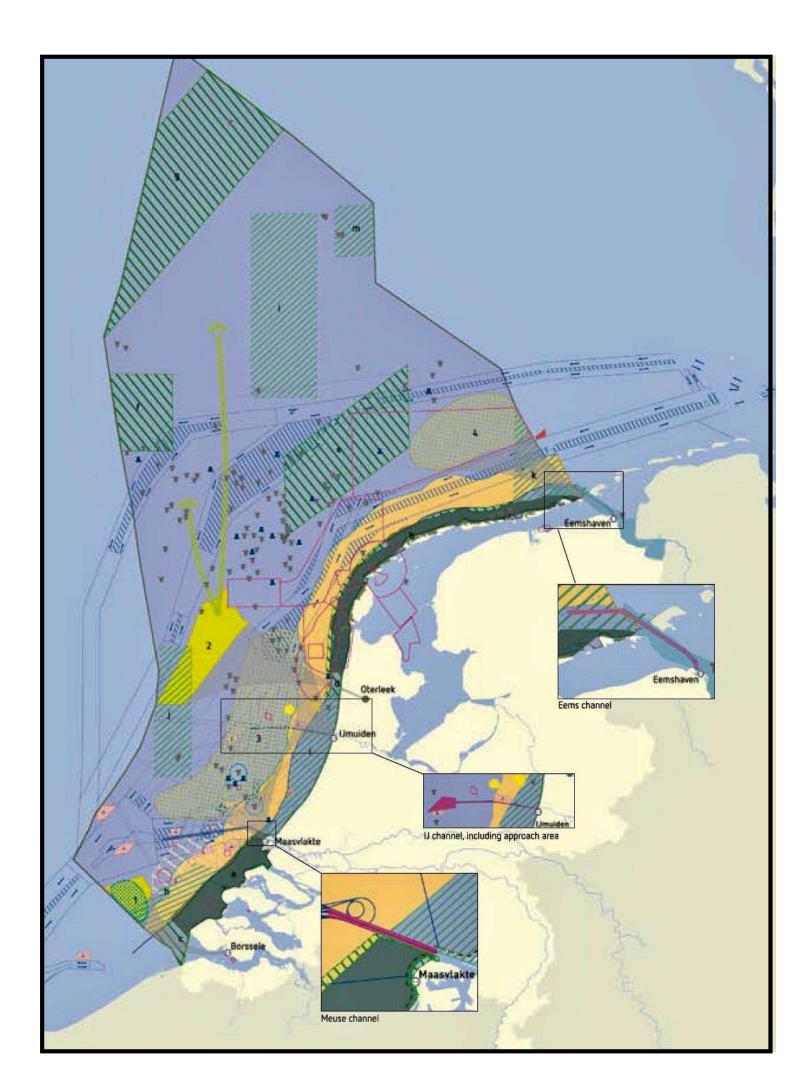


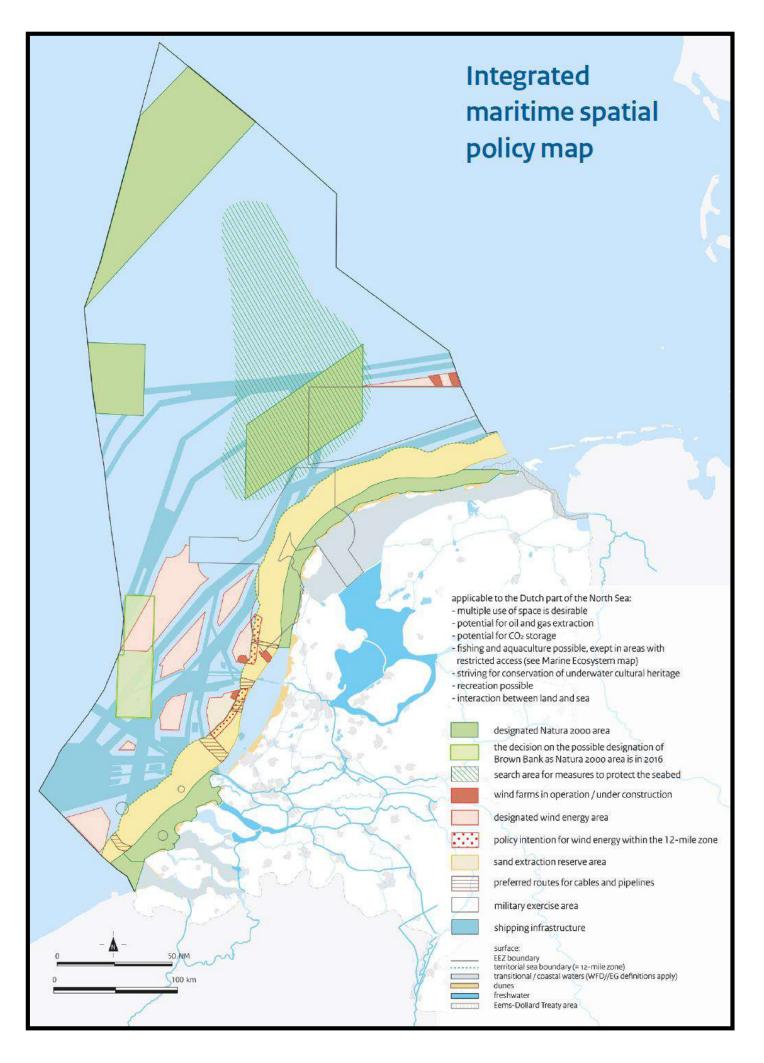
### **Sea-Land Integration**



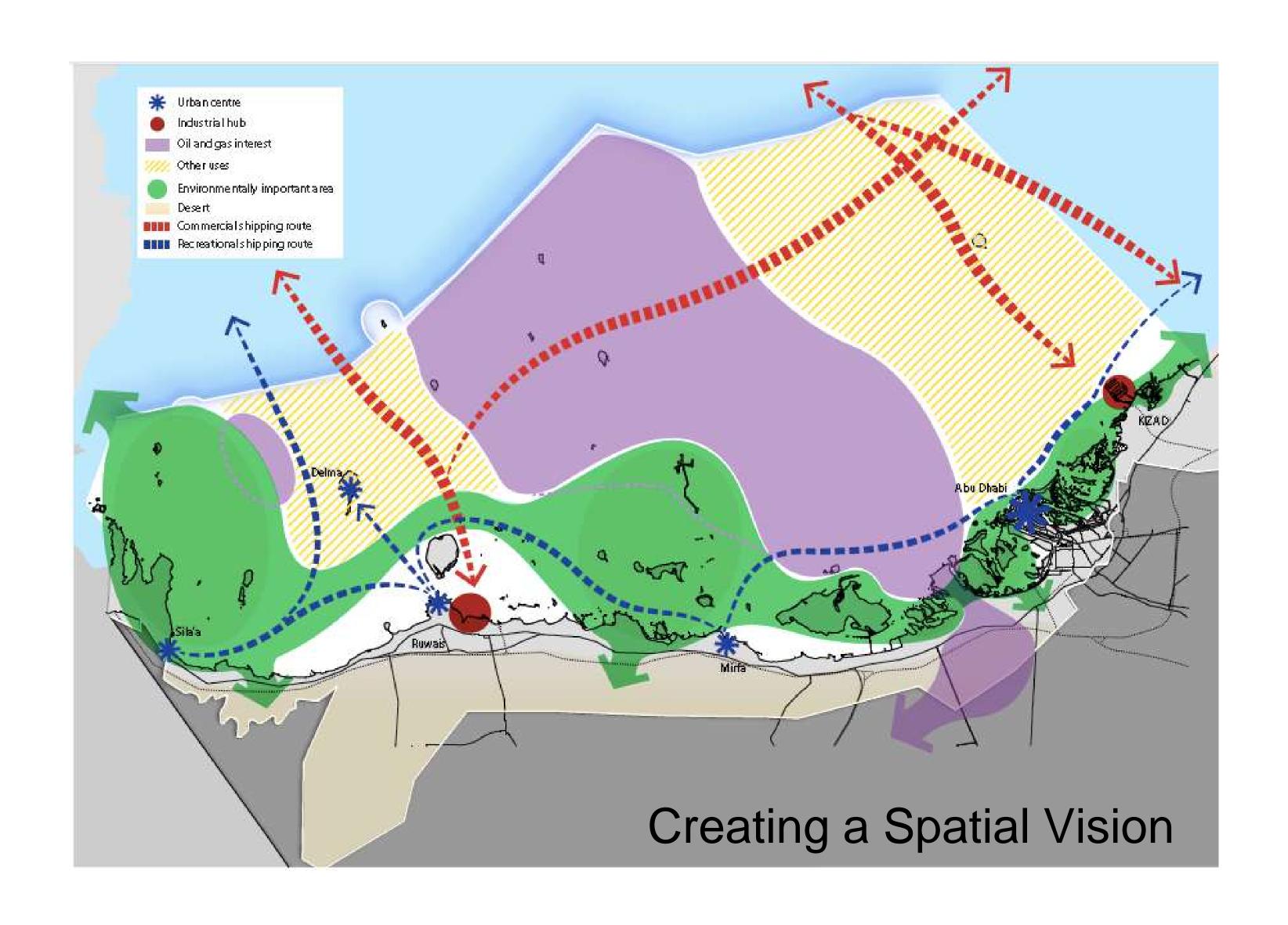
#### Continuing & Adaptive Management: The Netherlands 2005-2016

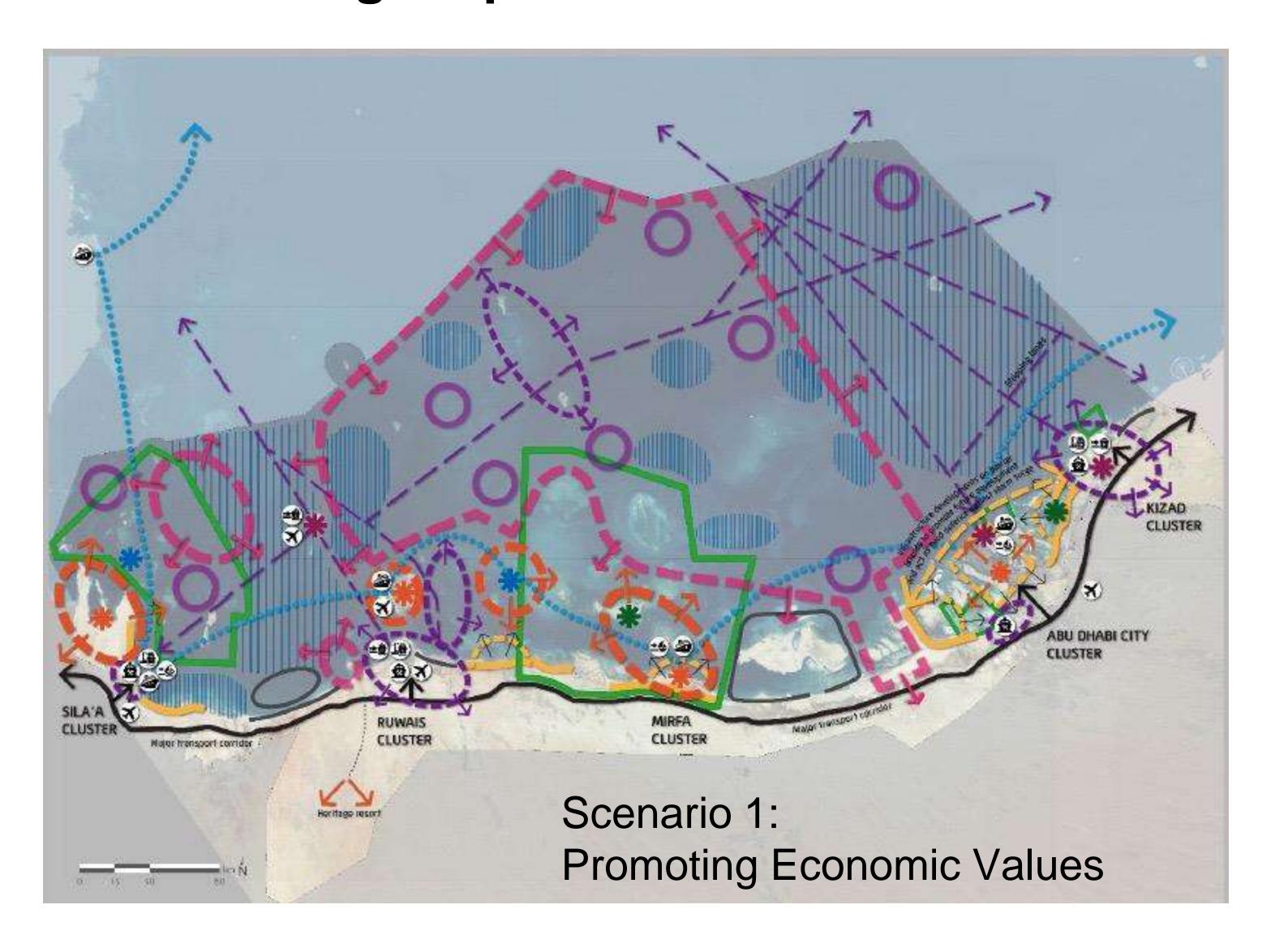


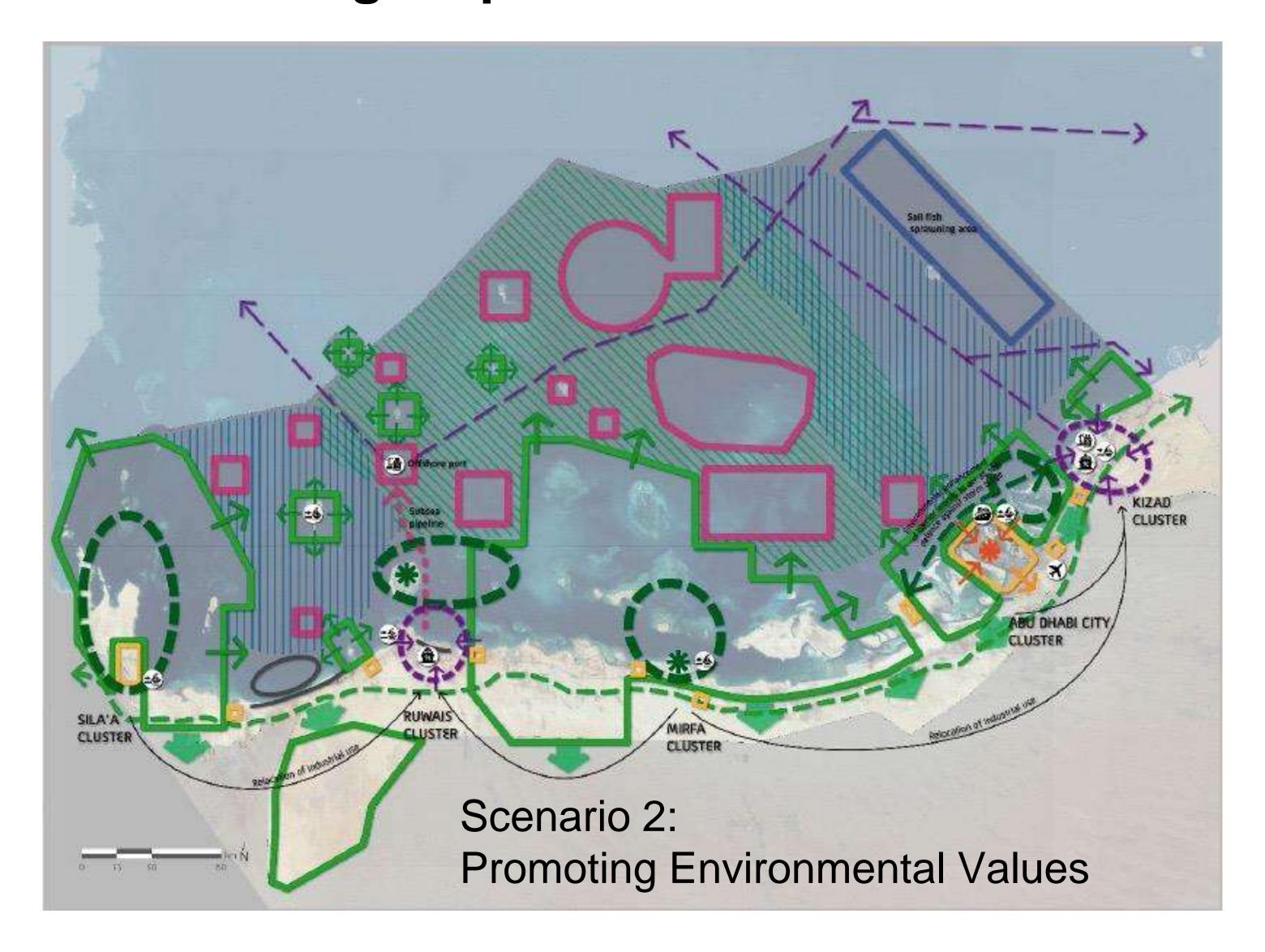


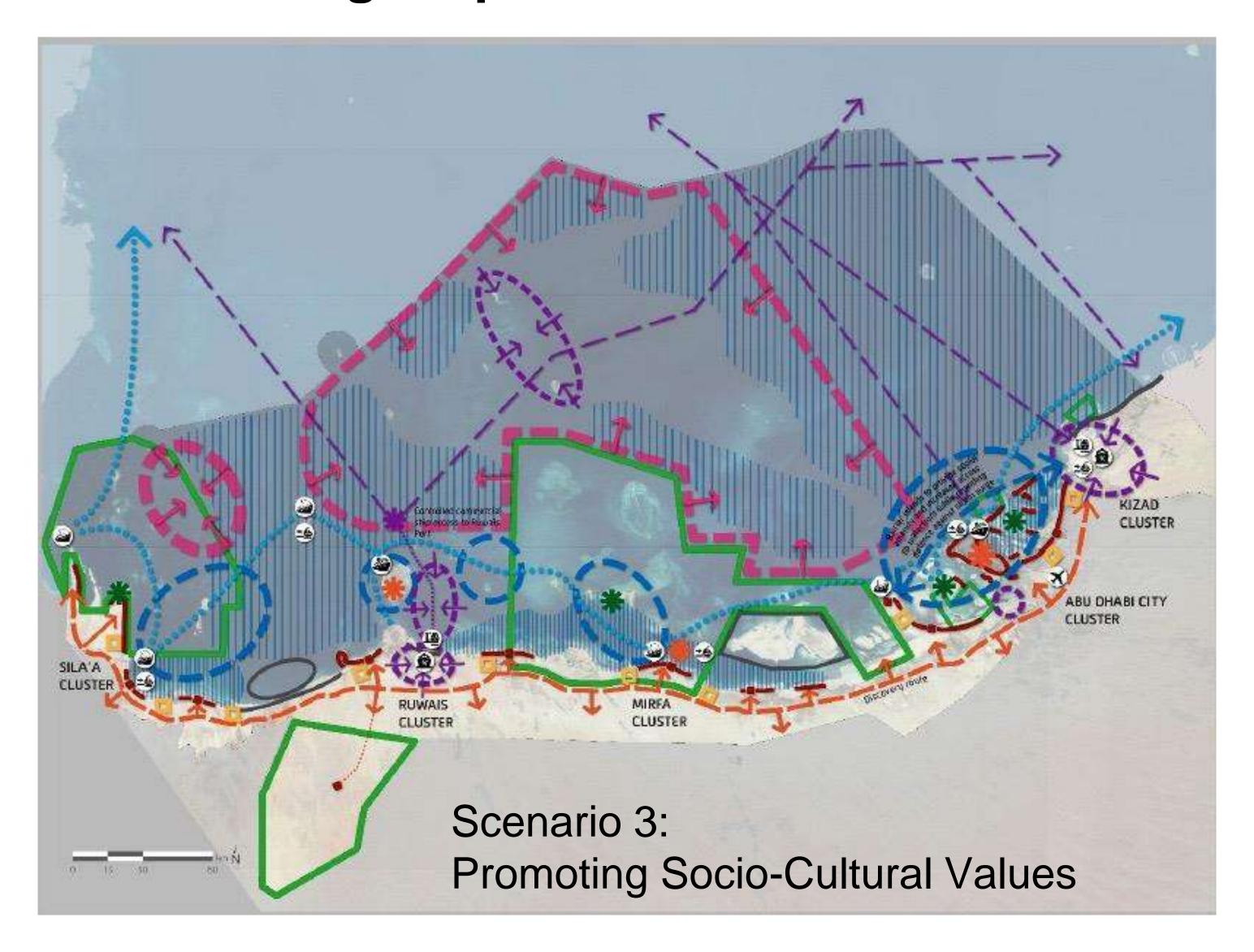


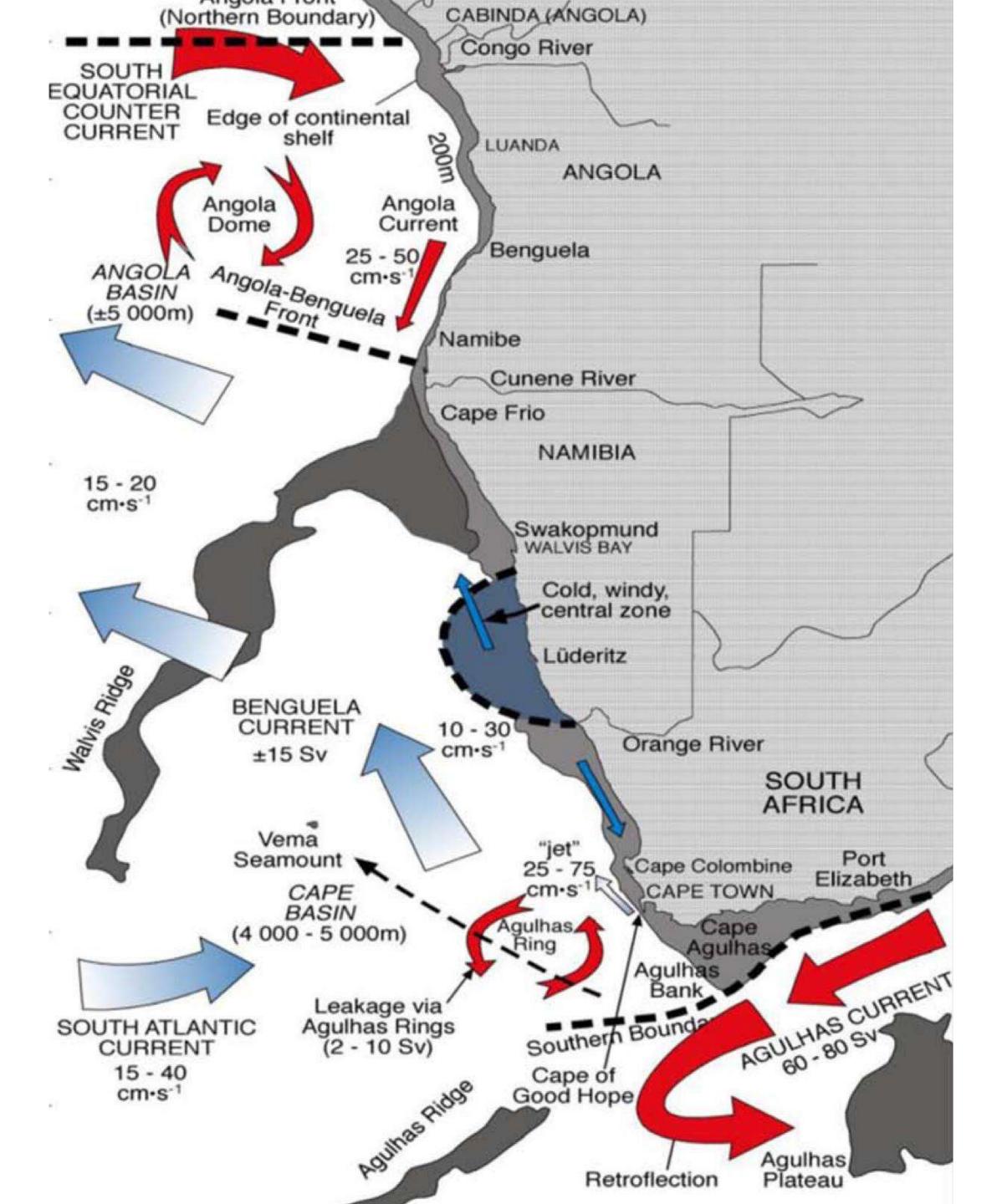
2005-2015 2009-2015 2016-2021







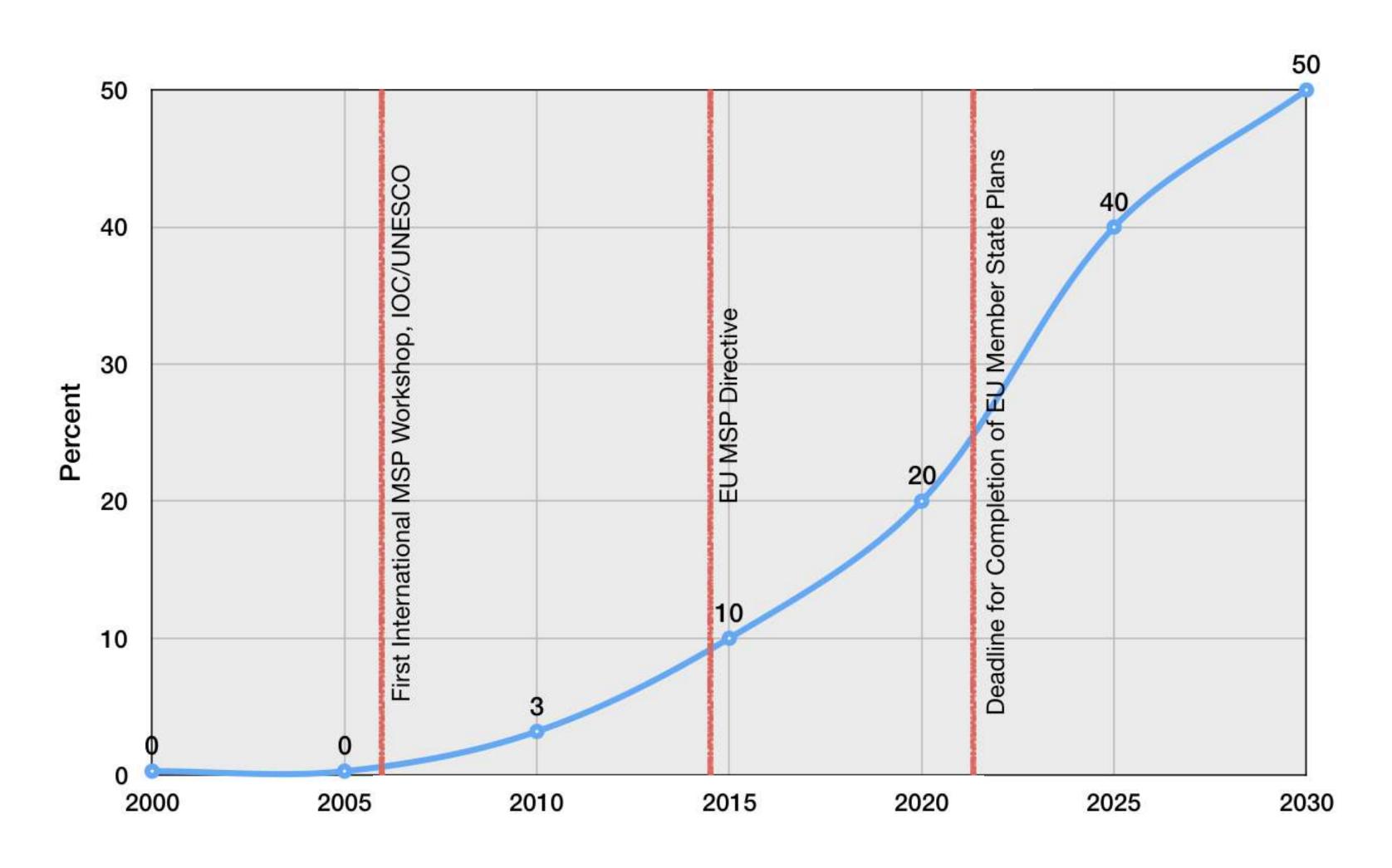




## Ecosystem-Based Management Benguela Current LME

South Africa Namibia Angola

## Percent of Surface Area of Exclusive Economic Zones of World Covered by Government-Approved Marine Spatial Plans



#### For more information on MSP



Intergovernmental Oceanographic Commission United Nations Educational, Scientific, and Cultural Organisation (UNESCO)

Marine Spatial Planning Website

<u> http://msp.ioc-unesco.org</u>



Since 2006 my Intergovernmental Oceanographic Commission work on marine spatial planning has been sponsored by the Gordon and Betty Moore Foundation in Palo Alto, California (<a href="www.moore.org">www.moore.org</a>)