

Maritime Spatial Planning (MSP) in the context
of Offshore Windfarm Development:
Institutional Perspectives and Socio-Cultural Considerations

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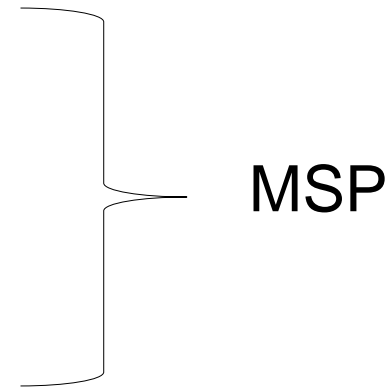
Terminology

Spatial Planning in the Sea

Maritime Spatial Planning

Marine Spatial Planning

...



Several projects:

BMBF: Coastal Futures

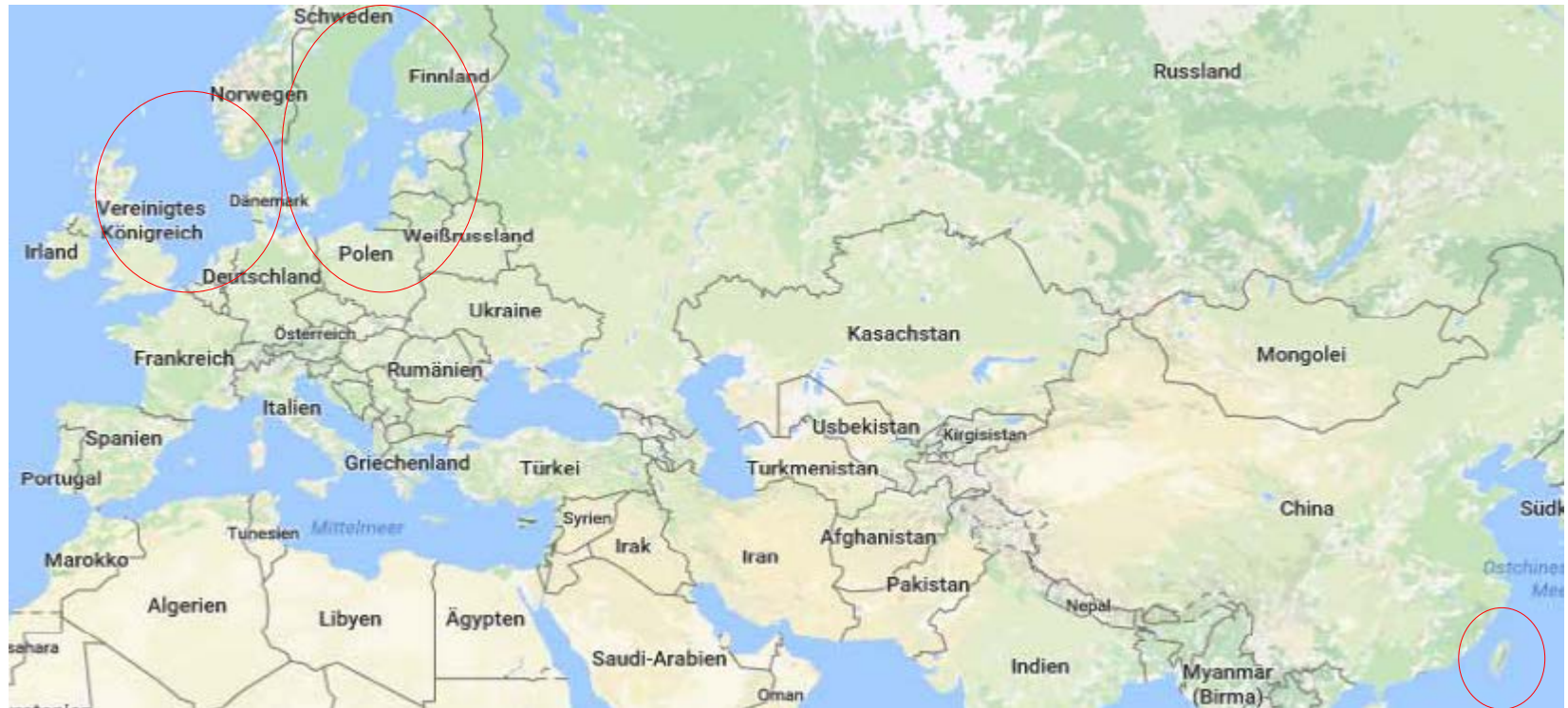
EU: KnowSeas, BaltSeaPlan, BONUS BALTSAPACE

ICES (International Council for the Exploration of the Sea):

WGMPCZM

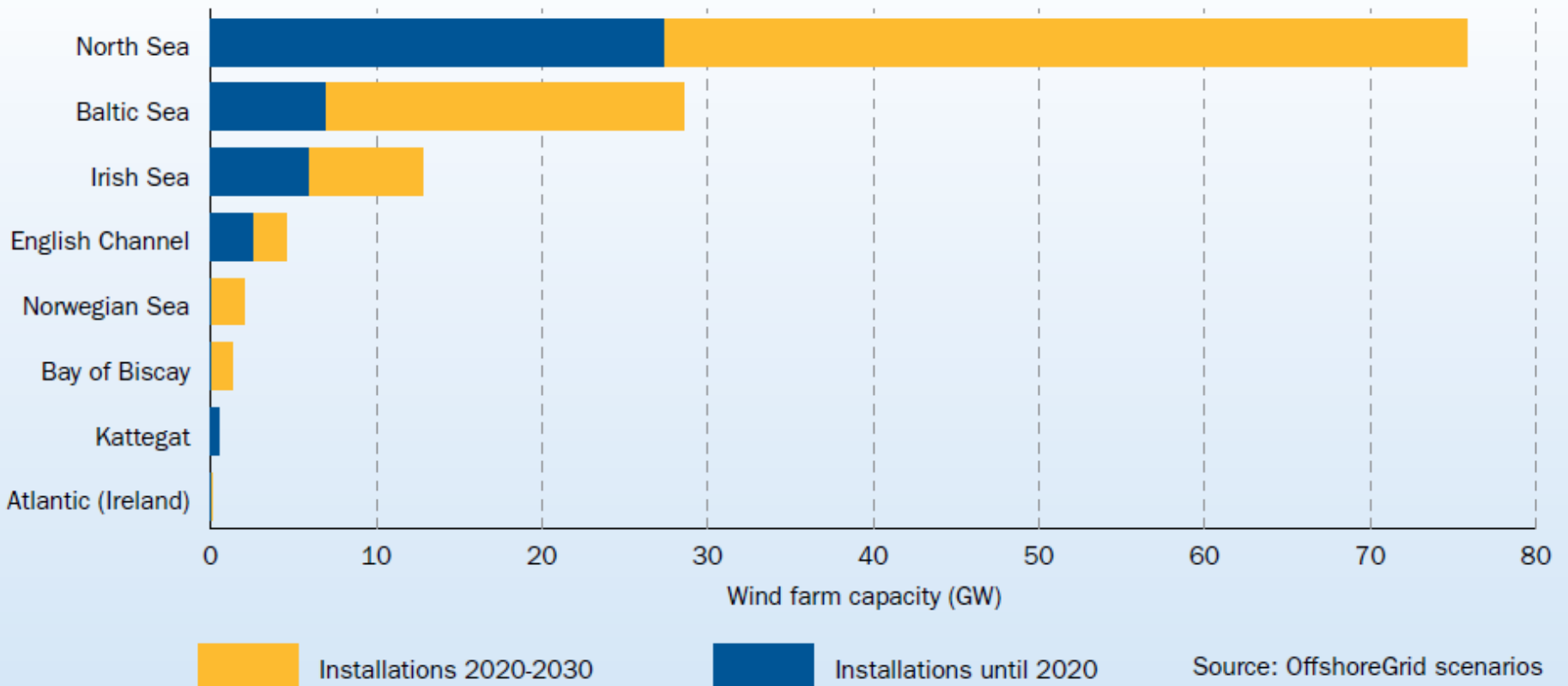
WKQAMSP 2012, WKCES 2013, WKCCMSP 2016

Geography



Potentially installed capacity of offshore wind farms in Northern Europe to 2030, OffshoreGrid scenarios (2011)

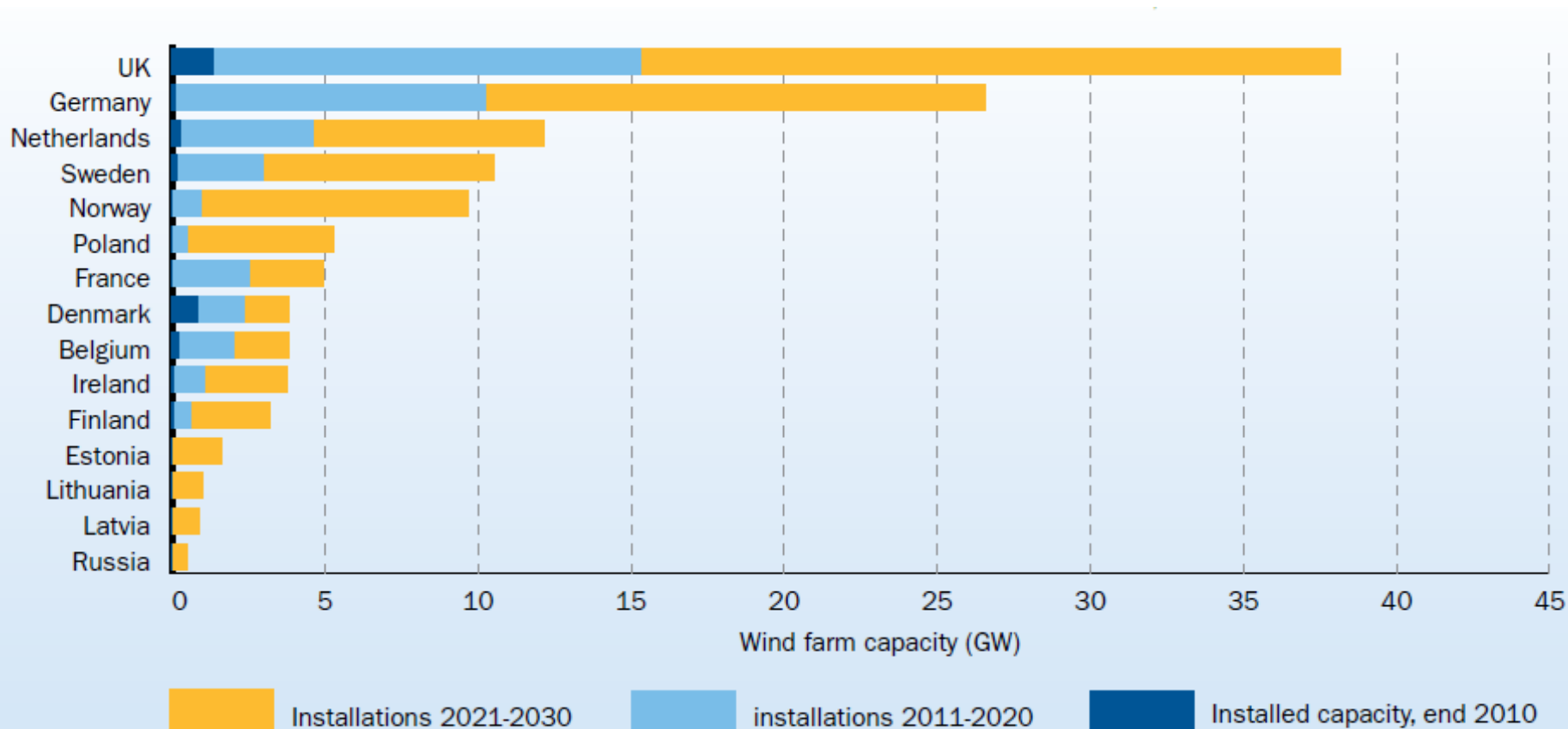
FIGURE 2.2: DISTRIBUTION OF INSTALLED CAPACITY PER SPECIFIC MARINE AREA



Geography: Multinational environments



Potentially installed capacity of offshore wind farms in Northern Europe up to 2030, OffshoreGrid scenarios (2011)

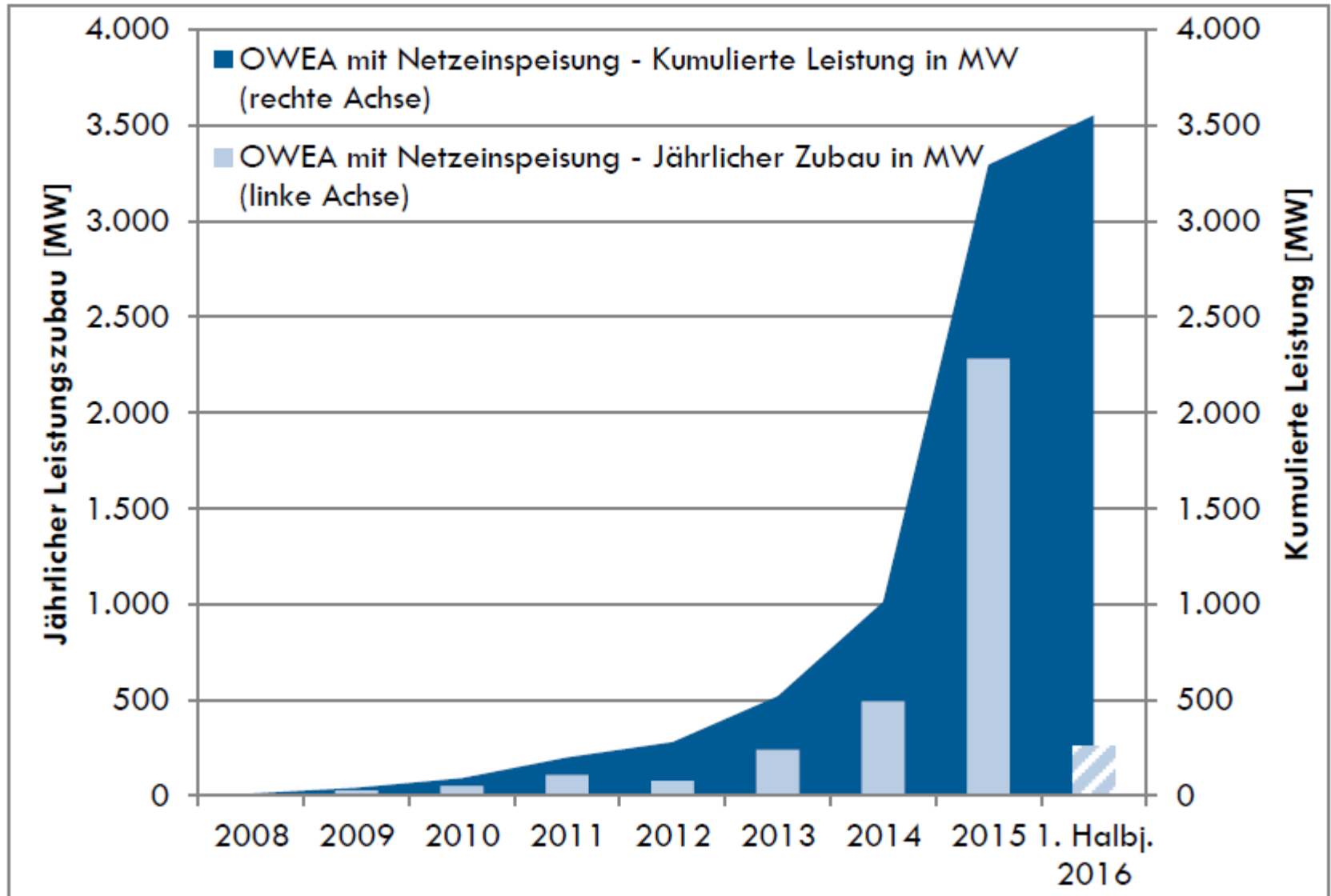


Source: OffshoreGrid scenarios

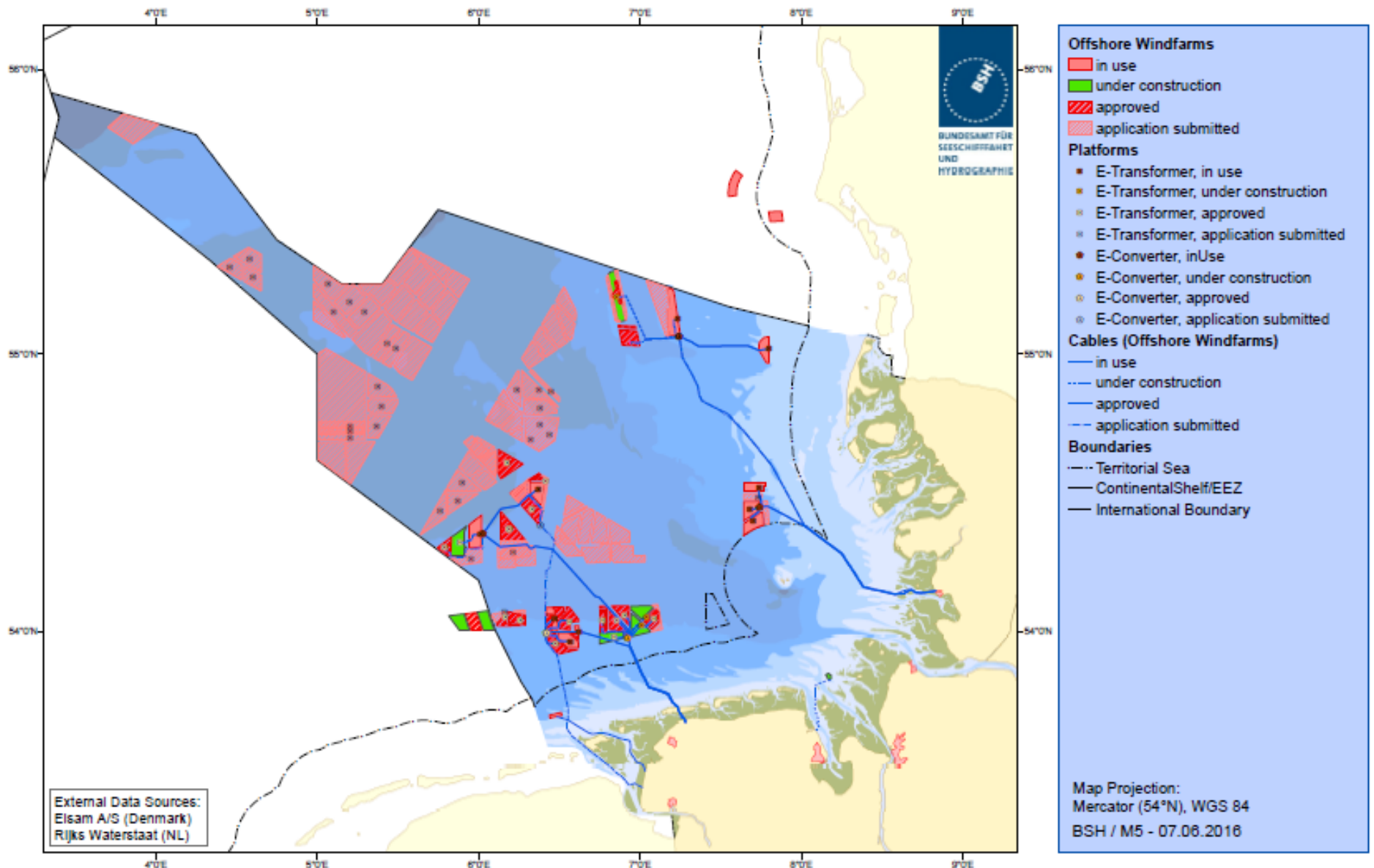
- Prospective huge growth in offshore wind farming in the (German) North Sea
 - Ambitious target initially, but considerable delays due to costs and problems with grid connection
 - Offshore wind targets for 2030 scaled back from 25GW to 15GW (6.5 GW by 2020) to better reflect progress to date and to reduce costs to consumers
 - 30 June 2016: 835 turbines with 3,552,2 MW are connected to the grid, 54 turbines with 324 MW are constructed, foundations exist for another 142 turbines
-

Offshore wind farm development over time

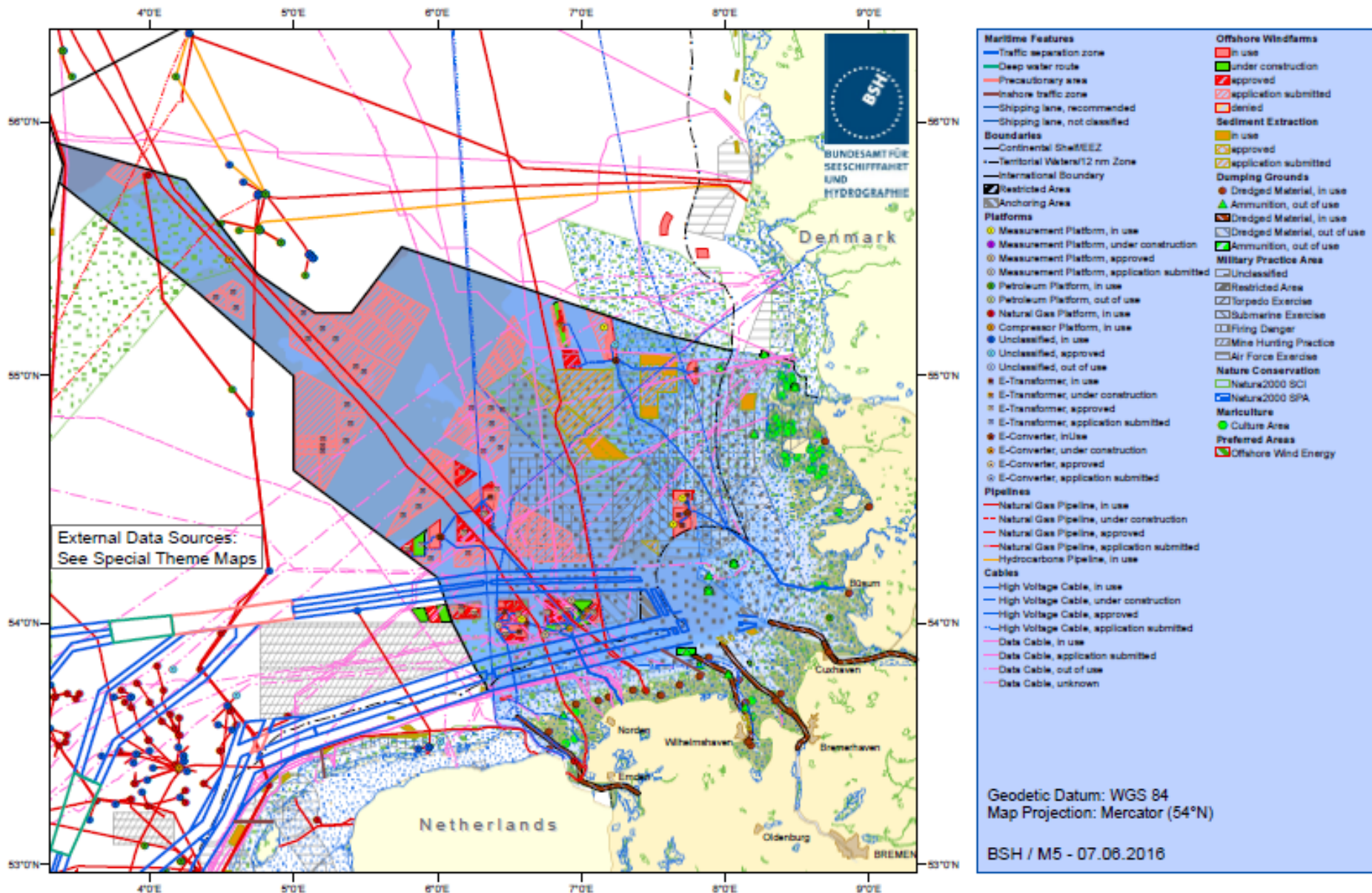
(Source: German Wind Energy Association)



North Sea: Offshore Windfarms



North Sea: Existing and Perspective Uses and Nature Conservation



Why MSP? The drivers to do it...

- **Multiplicity of human activities, societal demands**
- **Problem driven, e.g. how to incorporate a new demand into an existing setting**
- Policy driven or legal obligation

“a public process of analysing and allocating the spatial and temporal distribution of human activities in marine areas to achieve ecological, economic and social objectives that have been specified through a political process.”

UNESCO-IOC

Maritime Spatial Planning (MSP)

seeks to shape and guide *future* developments rather than passively react to them.

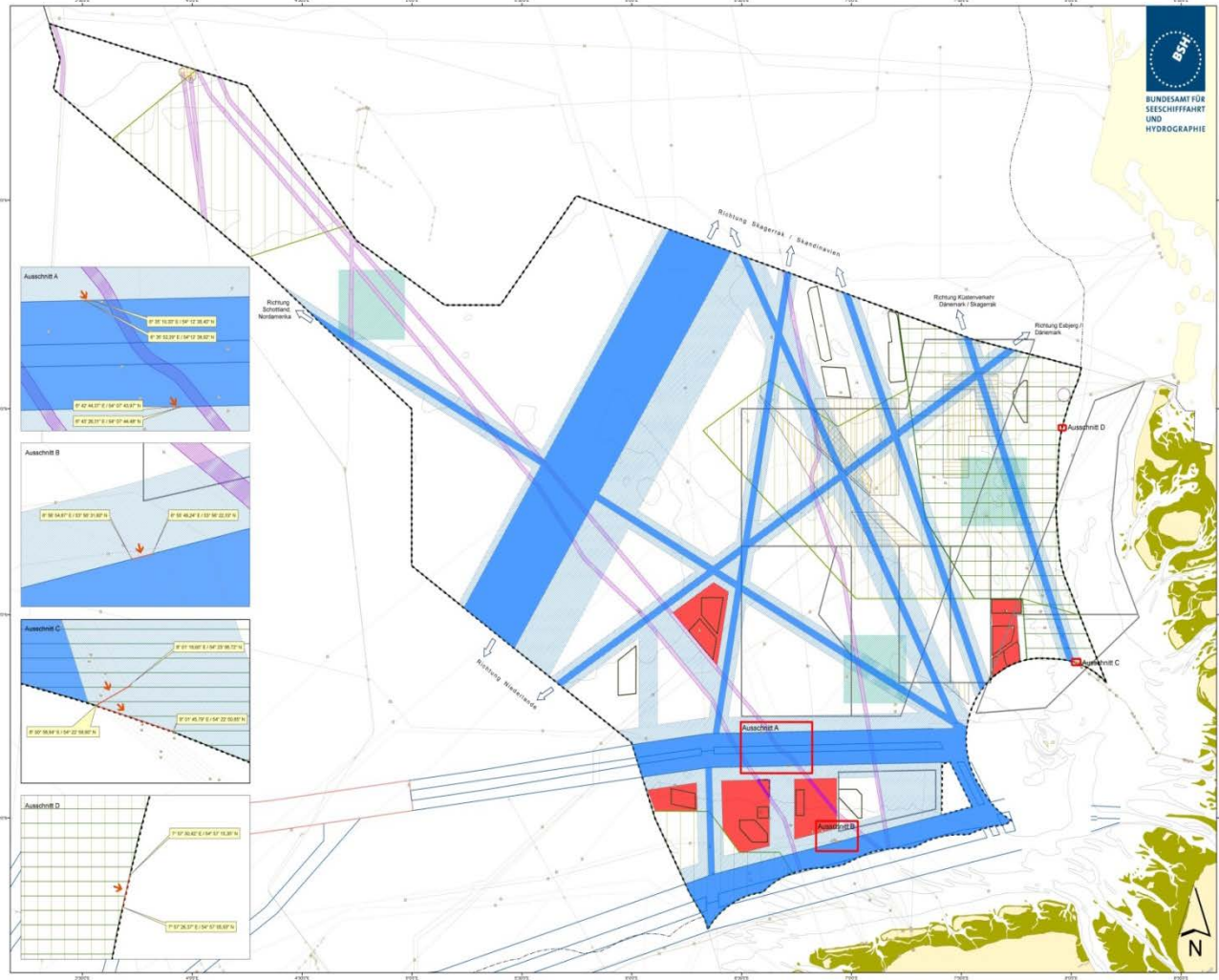
promotes systematic, integrative and forward-looking planning based on common objectives and a shared understanding of common values.

(Gee et al. 2011: BaltSeaPlan Vision 2030)

Different types of planning processes / procedures

- MSP – long-term – strategic, e.g. The Netherlands
 - MSP – medium term – providing guidance for licensing and site specific plans, e.g. Germany (EEZ)
-
- *Licensing – site- and project specific*
 - *Construction plan – site-, project- and technically specific*
 - *Sectoral (spatial) plan*

Spatial Plan for the German North Sea EEZ



The traditional spatial (land) planning solution: Zoning

(Source: BSH, Federal Hydrographic and Maritime Agency)

Marine Policies at EU Level: Conflicting targets?!

European marine policies

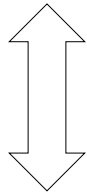
- Integrated Maritime Policy (IMP)
- Blue Growth
- MSP Directive
- Common Fisheries and Agricultural Policy (CAP)

- Marine Strategy Framework Directive (MSFD)
- Water Framework Directive (WFD)
- Birds and Habitats Directive (NATURA 2000)

- Sectoral strategies and policies (Climate Change, Energy, Transport, Cohesion,...)

Non-EU context

- UNCLOS
- Environmental Conventions and Agreements (e.g. CBD)
- IMO Regulations
- Regional Seas Conventions (OSPAR, HELCOM, Barcelona, etc.)



EU policies



National policies

Subnational policies (German states/Länder)

What to achieve in MSP along EU MSP Directive?

Economic considerations formulated as objectives (expected outputs according to EU MSP Directive)

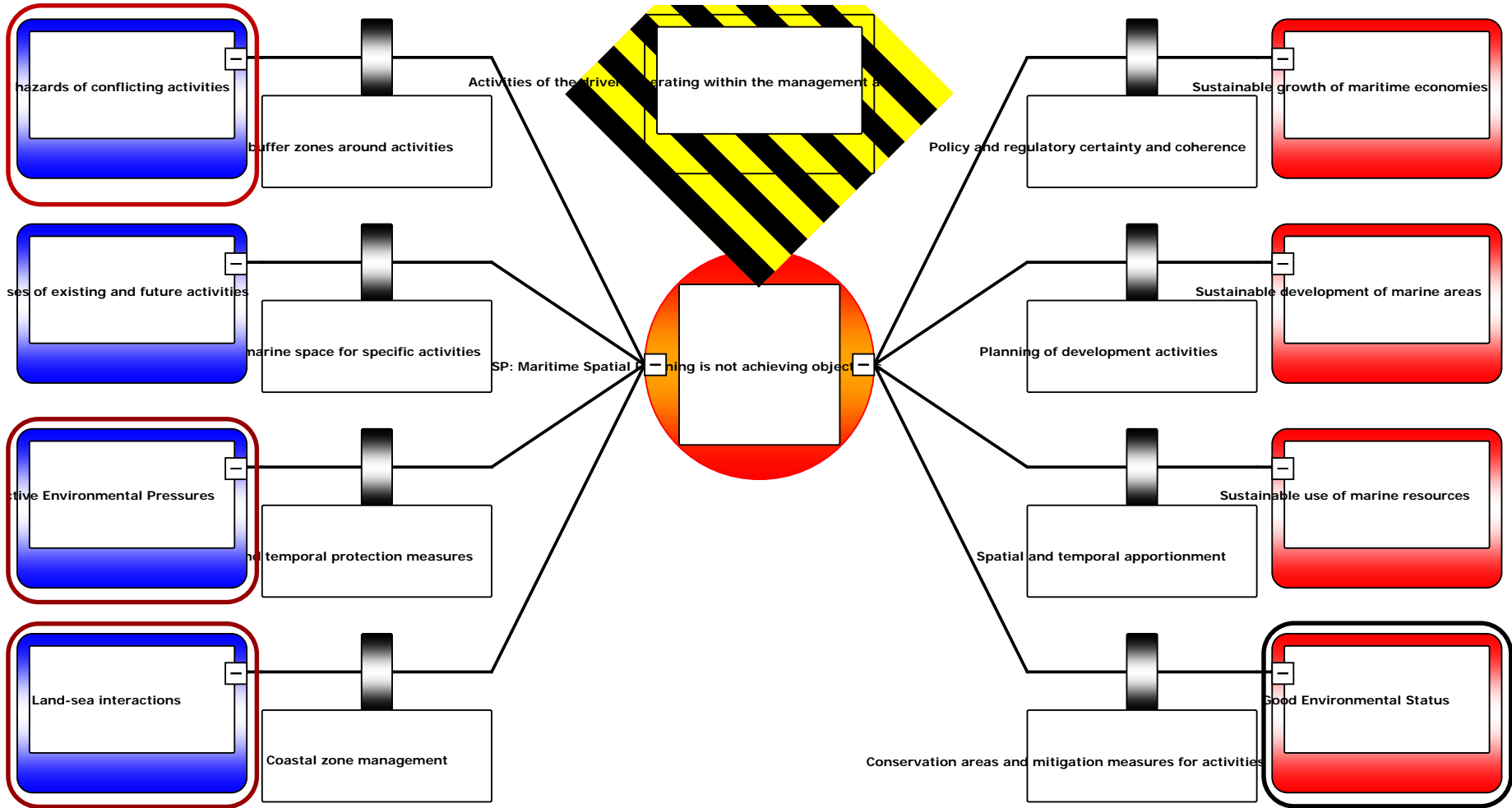
- Growth of maritime economies / sectors
- Development of marine areas
- Use of marine resources

} Sustainable

Environmental considerations

- Good Environmental Status (EU MSFD)
 - Strategic Environmental Assessment (SEA)
 - Protection of NATURA 2000 areas (Birds and Habitats Directives)
-

Policy risk analysis



based on Cormier et al., 2015, ICES Cooperative Research Report 327

MSP deals with or should deal with

- different policy goals, interests, scales
- different perceptions, attitudes and values

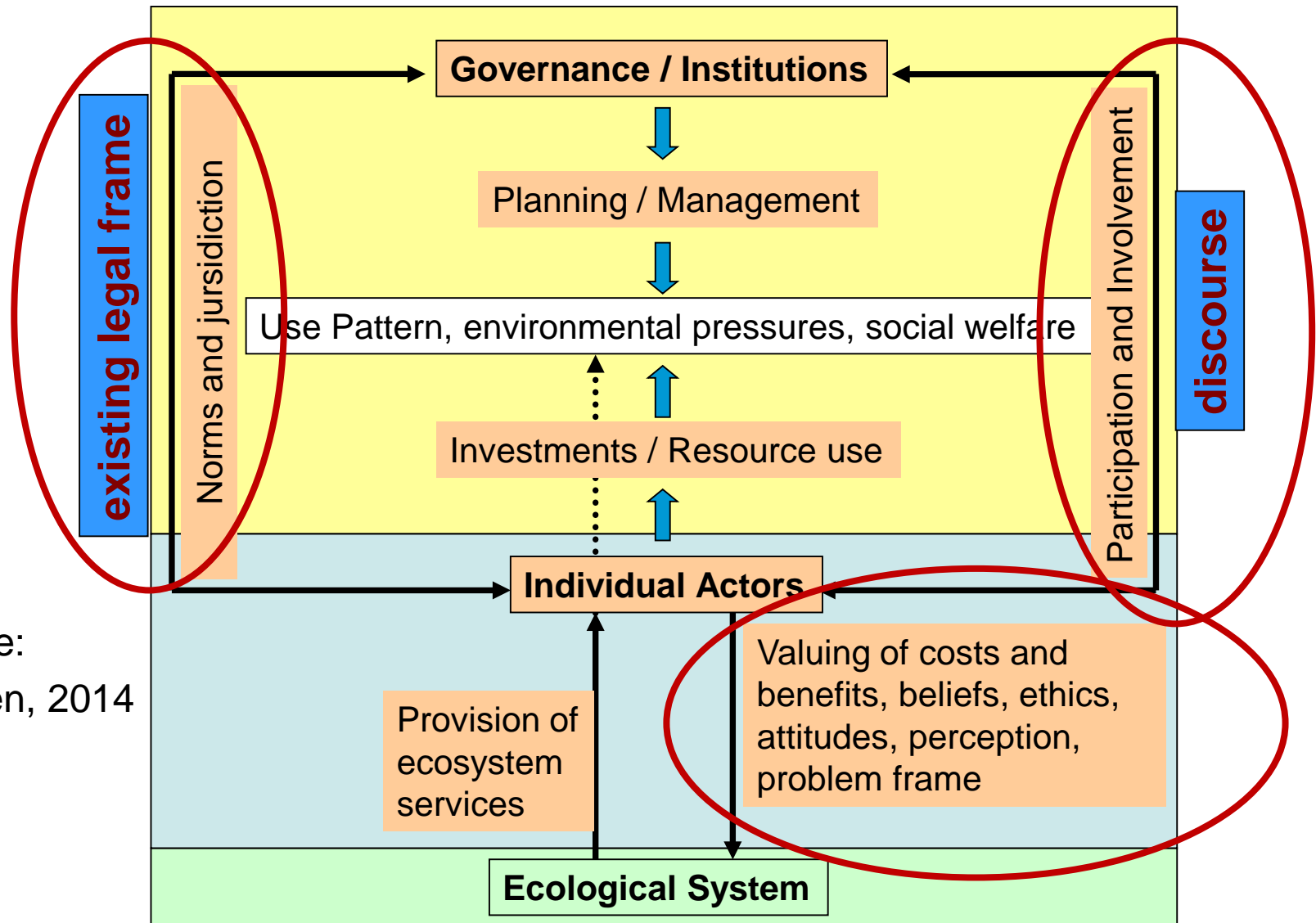


MSP is



- a planning and/or negotiation element embedded in a wider system of social–ecological interactions and related governance structures (Kannen 2014)
 - not simply rational data-based decision-making, but a social process
-

MSP as an institutional process



Source:
Kannen, 2014

The sea as a space of human perceptions...

What do you see?

Less CO₂?

Spoilt
view?

Killed
Birds?

Nature
destruction?

Less
Tourists?

Money?

Bright
Future?

Colliding
ships?

Jobs?

© Siemens Pressebild

... and emotions!!

And what do you feel?

Just awful!

The end
of the
world!

A future
for my
kids

A miracle of
technology

Disaster!

Great!

Not nice, but
necessary

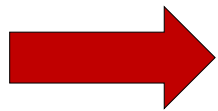
Nice!

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Why are social and cultural aspects important in MSP?

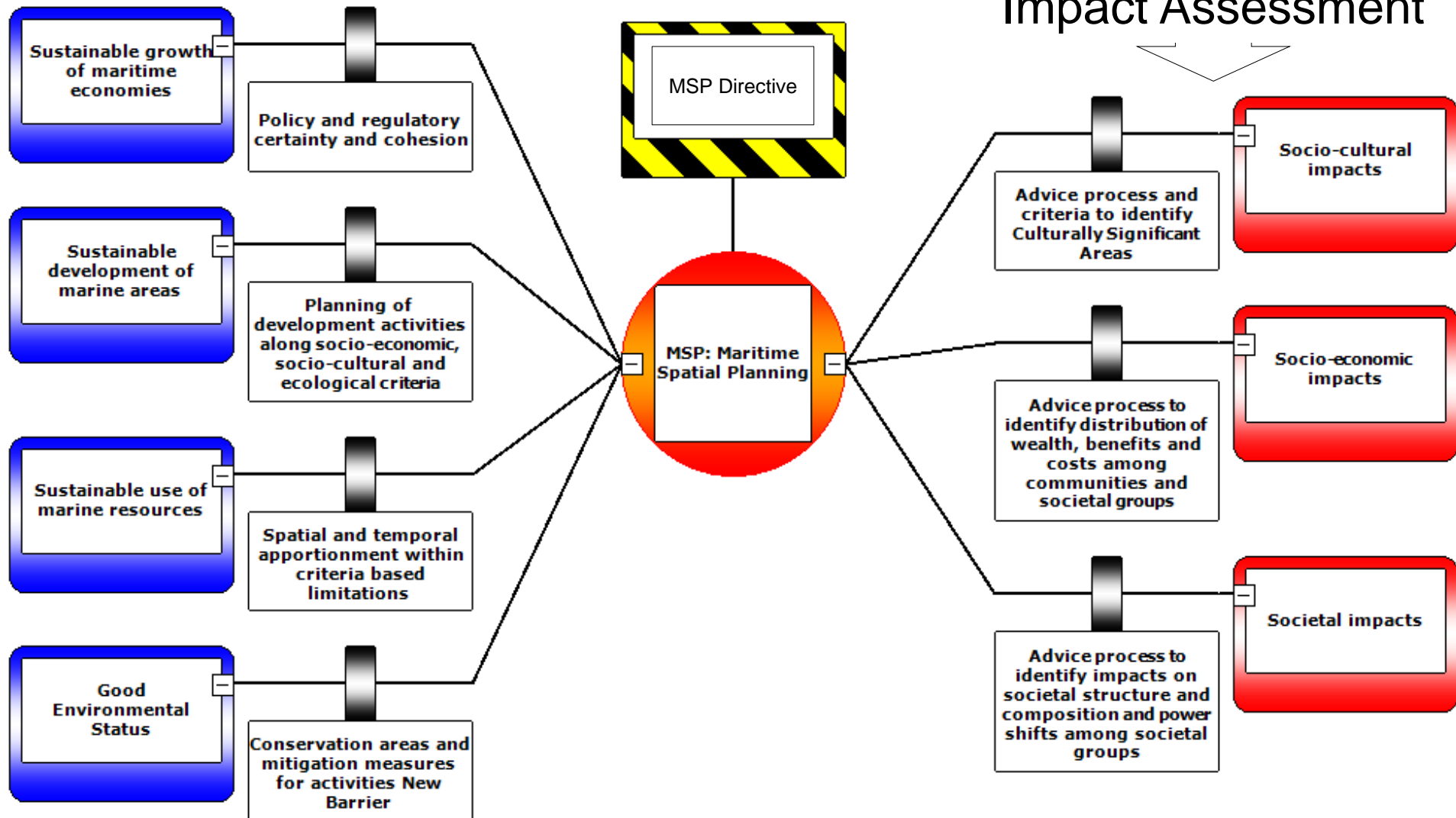
- people have an attachment to the sea and to areas they live in
- people have perceptions and emotions on what happens in their area
- people are sensitive to changes in their environment
- people are sensitive to missing transparency and processes perceived as unjust and unfair

- missing acceptance for content of the PLAN
- failure in PROCESS
 - e.g. seen as unfair -> missing transparency of why specific decisions where taken and/or unclear roles



mistrust
ignorance
resistance against implementation

Towards socio-cultural impact assessment



ICES WKCES proposal: Culturally Significant Areas

-> Identifying places of cultural importance

What is valued by people and **where** is it?

When is it relevant and to **whom** is it important?

What qualities are needed to sustain it?

-> Criteria for determining cultural significance of places

- ICES Expert Group Report WKCES2013

<http://www.ices.dk/sites/pub/Publication%20Reports/Expert%20Group%20Report/SSGHIE/2013/WKCES13.pdf>

- Gee et al., forthcoming in Ocean & Coastal Management
-

Including social and cultural aspects in MSP

- provides an additional layer of information in the decision making process
- does not prescribe that social and cultural aspects are valued higher in decision making than economic or ecological considerations
- supports fairness and transparency
- may support community engagement in the process



may increase support for implementation of the plan and reduce resistance

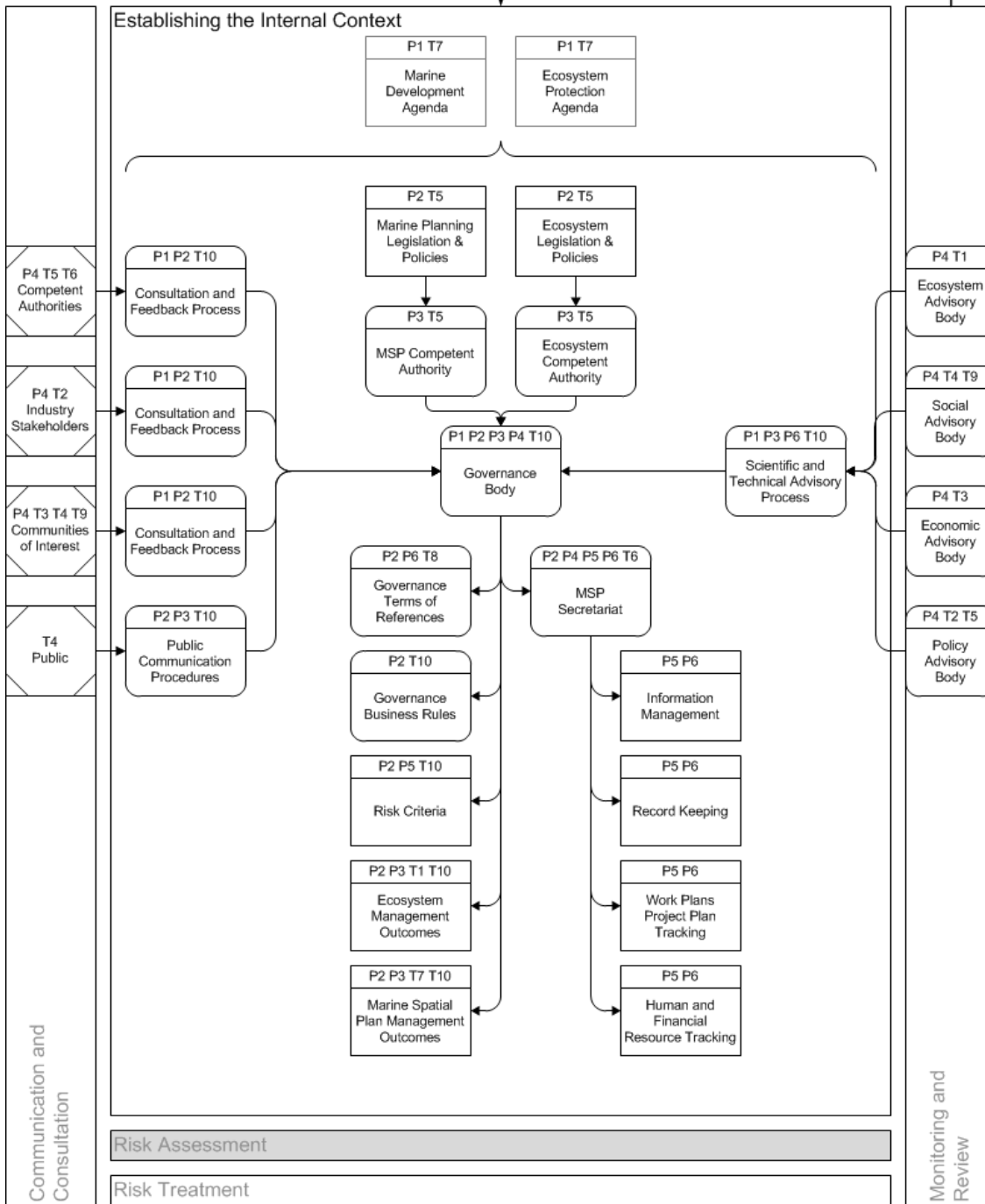
Option:

Use a Quality Management Approach to MSP

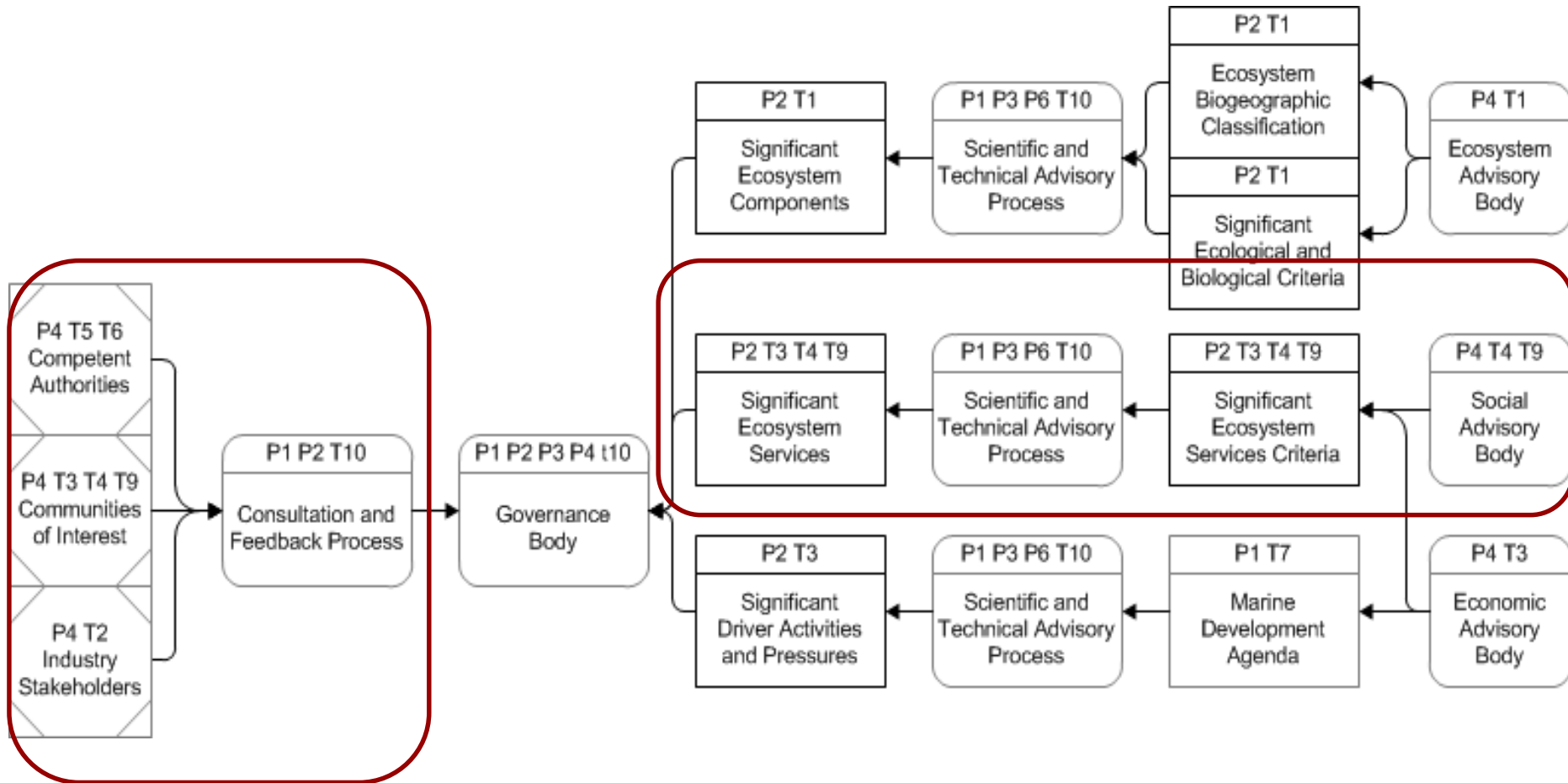
Cormier, R., Kannen, A., Elliott, M. and, Hall, P. (2015):
Marine Spatial Planning Quality Management System.
ICES Cooperative Research Report 327

<http://www.ices.dk/sites/pub/Publication%20Reports/Cooperative%20Research%20Report%20%28CRR%29/crr327/Marine%20Spatial%20Planning%20Quality%20Management%20System%20CRR%20327.pdf>

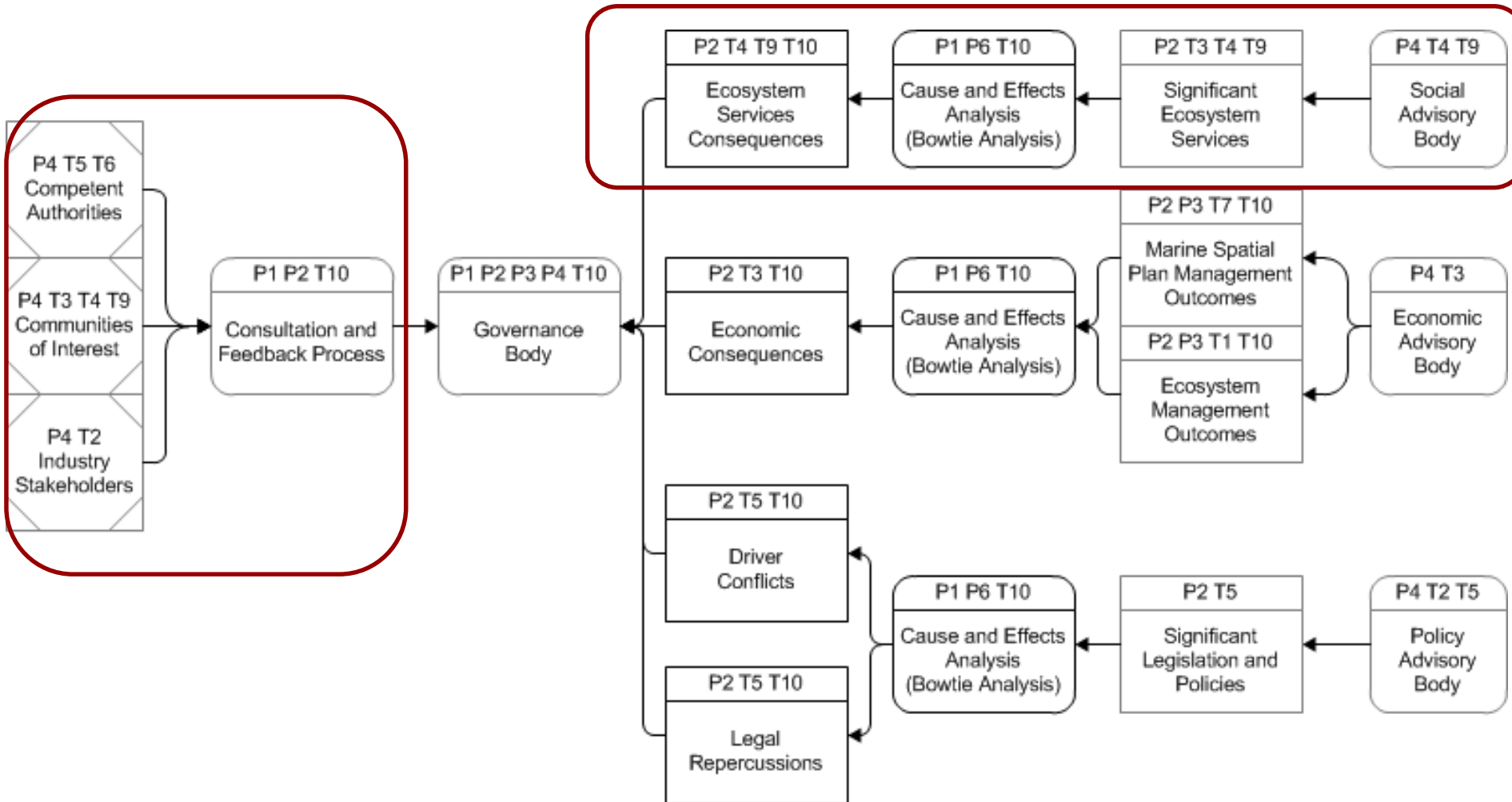
based on WKQAMSP in 2012



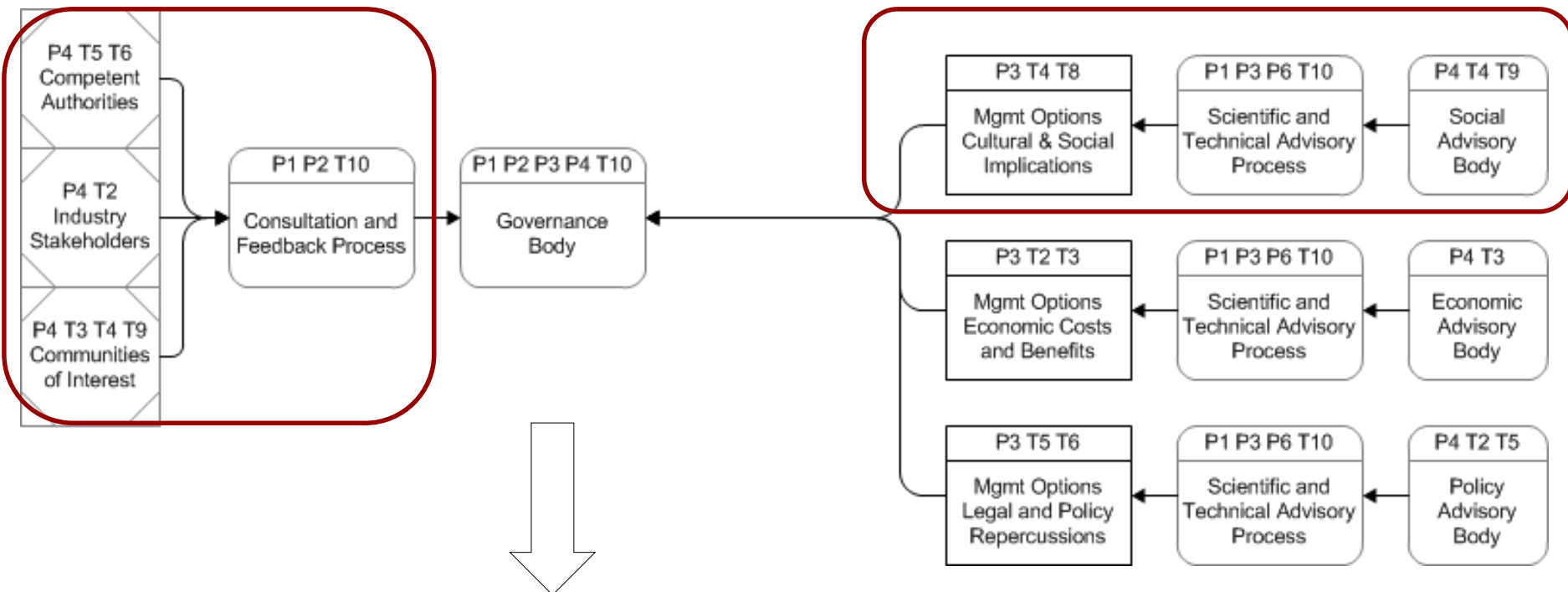
Recognising socio-cultural issues in risk identification



Recognising socio-cultural issues in risk analysis



Recognising socio-cultural issues in risk treatment



Maritime Spatial Plan

Final Remarks

- MSP depends on policy objectives and context
- Applying quality management objectives does not guarantee a good marine spatial plan, but ensures
 - a transparent, well-structured and documented process to develop the plan;
 - inclusiveness of stakeholders and actors into the planning process;
 - a decision process relying on the best available ecological, socio-economic and socio-cultural information;
 - transparency concerning trade-offs and priorities in decision making and lines of argumentation;

Contact

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Many thanks to colleagues in Coastal Futures,
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ICES WKCES, ICES WKQAMSP, ICES WKRASM

