



Developing a dynamic baseline scenario

Preparing the revision of the MSFD



MSFD Workshop

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Context

- ▶ Future revision of the MSFD includes Impact Assessment (IA)
- ▶ IA requires the definition of a dynamic baseline scenario: basis against which impacts can be assessed and compared
- ▶ This presentation: main building blocks of dynamic baseline scenario
- ▶ Baseline assumptions mostly qualitative to underpin the development of environmental models of the JRC
- ▶ This requires a clear definition of the baseline scenario and model parameters that can reflect changes between policy options

Dynamic baseline approach (1)

- ▶ ‘No-Policy-Change’ scenario:
 - ▶ Continuation of global, EU-level, national policies and measures
 - ▶ Realistic implementation of the MSFD, relying on the existing framework, no new policy intervention
 - ▶ Accounting for socio-economic developments, climate change, technological development etc.
- ▶ Time horizon:
 - ▶ Starting point: current situation
 - ▶ End point: to be decided
 - ▶ Depends on realization of expected impacts
 - ▶ Baseline components should be framed around this time horizon
- ▶ Challenge: What to include and with what level of precision?

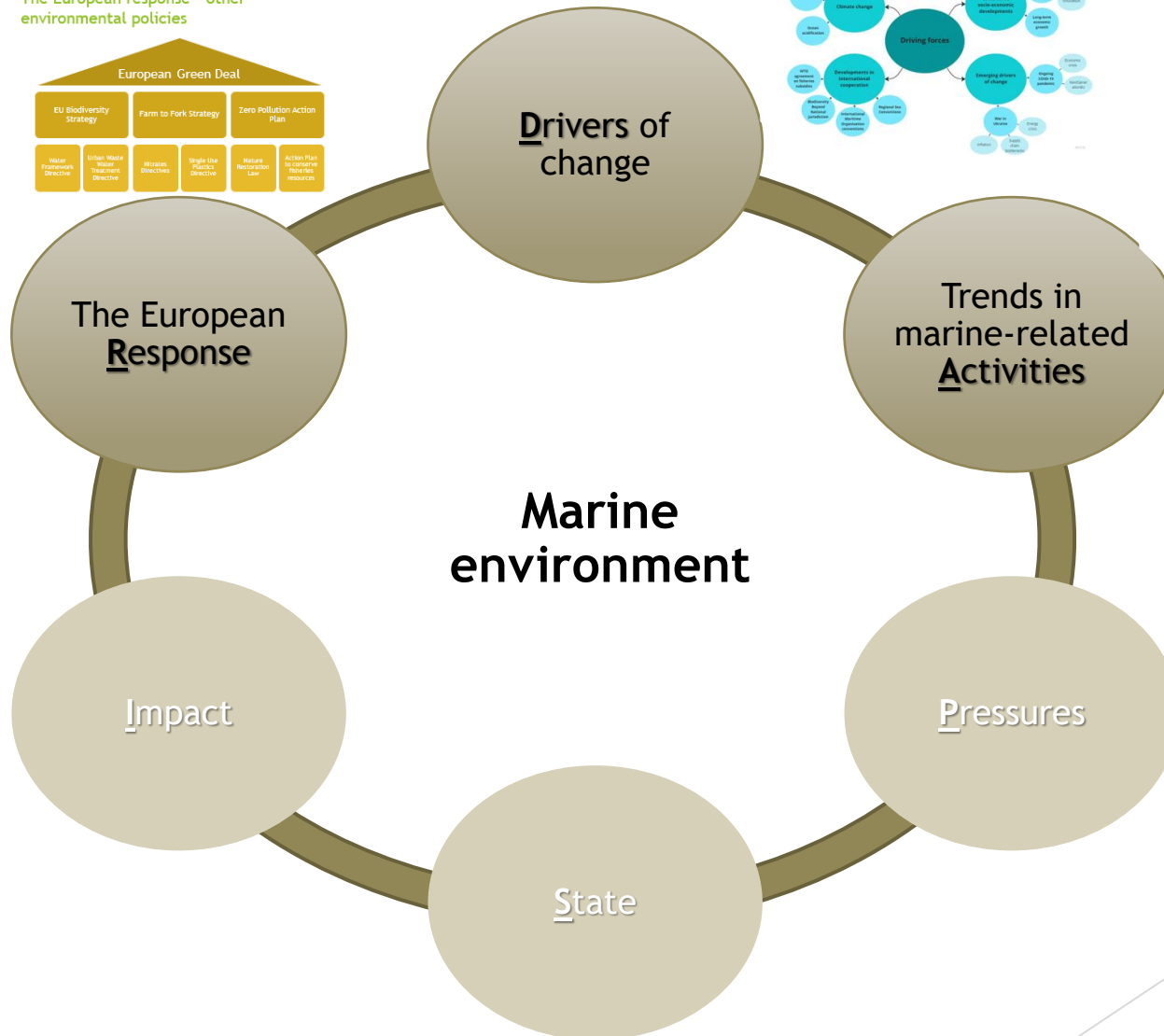
Dynamic baseline approach (2)

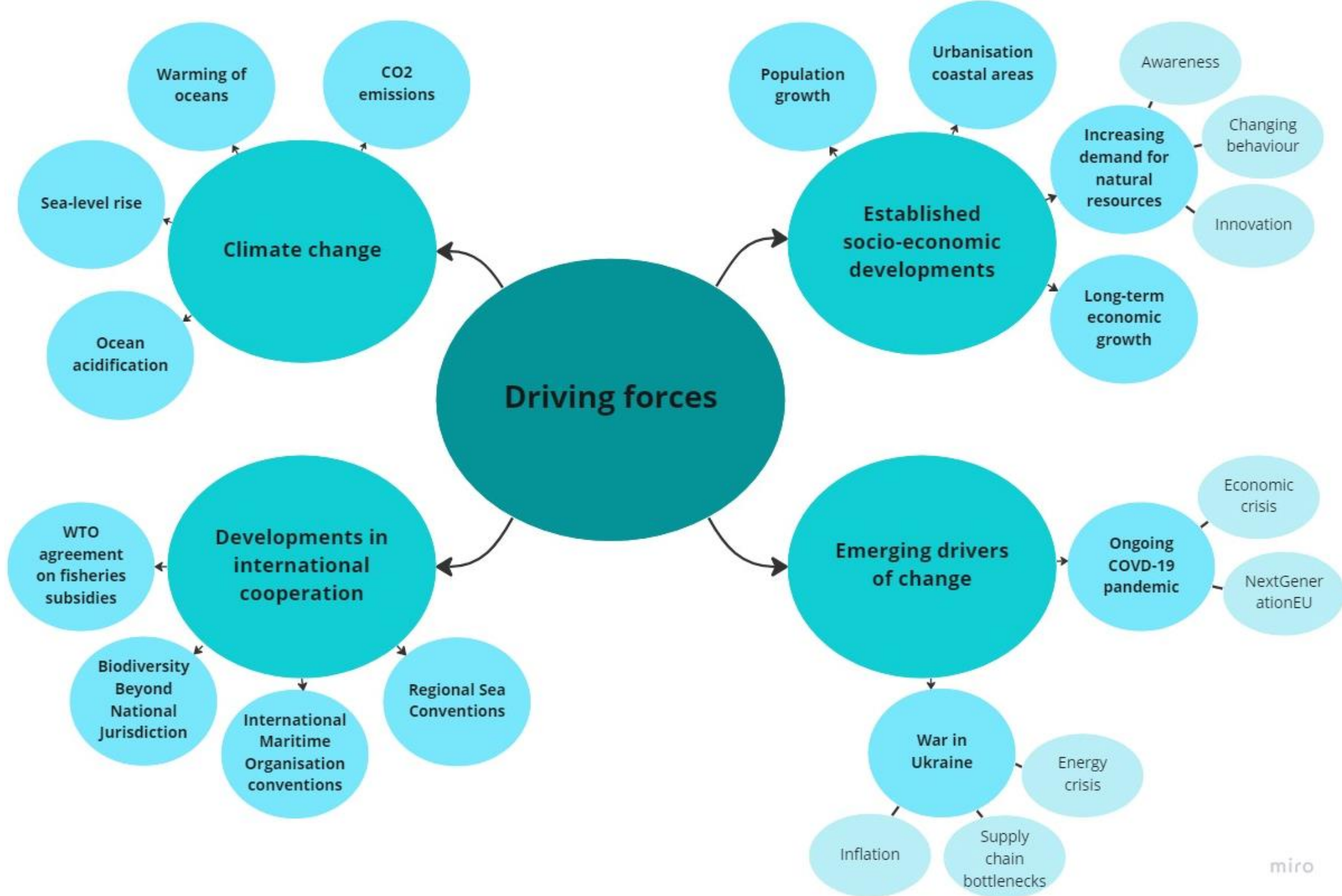
The European response - other environmental policies

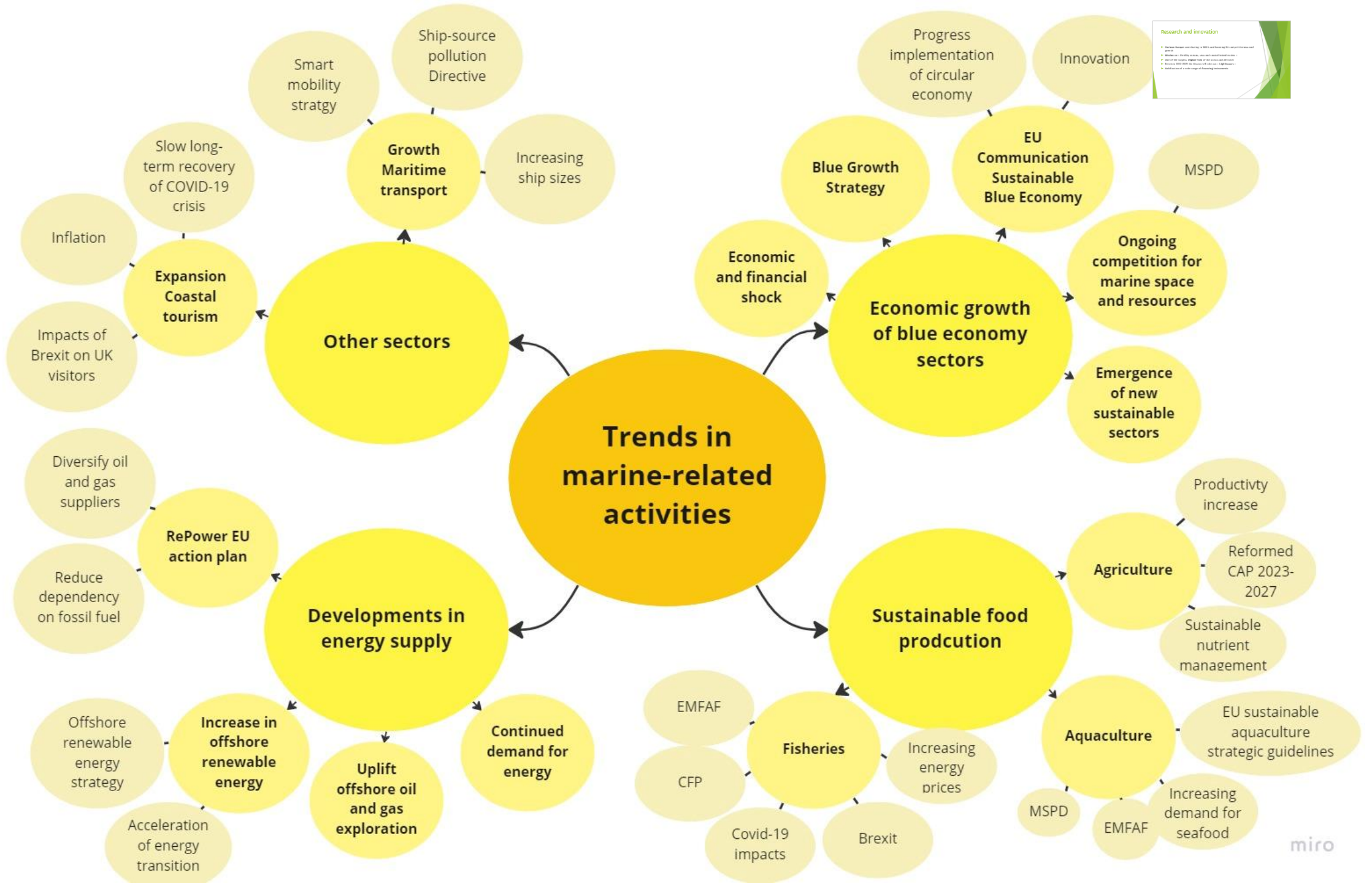


The European response - MSFD

Objectives	Positive developments	Problem drivers
Development and implementation of marine strategies	<ul style="list-style-type: none"> Improvements in marine strategies RSC and CI coordination and guidance Monitoring efforts 	<ul style="list-style-type: none"> Complexity of legislation Guidance on monitoring Degree of implementation
Marine data and better knowledge	<ul style="list-style-type: none"> Monitoring Reporting Research projects Initiatives to coordinate data collection 	<ul style="list-style-type: none"> Remaining data gaps Harmonisation of European monitoring
Regional cooperation	<ul style="list-style-type: none"> Regional Sea Convention Joint research projects 	<ul style="list-style-type: none"> National Interests Interactions with third countries
Integration of an Ecosystem-based approach	<ul style="list-style-type: none"> Some improvements 	<ul style="list-style-type: none"> Lack of clarity of key definitions
Coherence with other legislation		<ul style="list-style-type: none"> Differences in definitions Targets, data collection strategies







Research and innovation

- ▶ **Horizon Europe** contributing to SDG's and boosting EU competitiveness and growth
- ▶ **Mission** on « Healthy oceans, seas and coastal inland waters »
- ▶ One of the targets: **Digital Twin** of the ocean and all water
- ▶ Between 2022-2025 the Mission will role out « **Lighthouses** »
- ▶ Mobilisation of a wide range of **financing instruments**

The European response - MSFD

Objectives	Positive developments	Problem drivers
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The European response - other environmental policies

European Green Deal

EU Biodiversity Strategy

Farm to Fork Strategy

Zero Pollution Action Plan

Water Framework Directive

Urban Waste Water Treatment Directive

Nitrates Directives

Single Use Plastics Directive

Nature Restoration Law

Action Plan to conserve fisheries resources

Looking for answers and suggestions...

- ▶ Q1: What is an appropriate **time horizon** to consider in the dynamic baseline scenario (and future impact assessment), considering key socio-economic developments, trends in blue economy activities, climate change and policy responses?
- ▶ Q2. Which other established or emerging **socio-economic developments** or developments in international cooperation driving or mitigating pressures on the marine environment should be considered in the dynamic baseline scenario?
- ▶ Q3. What are the main - direct and indirect - implications of **climate change** on the marine environment and GES descriptors? How do future climate change mitigation and adaptation efforts affect progress?

Looking for answers and suggestions...

- ▶ Q4. Which key **sectoral developments**, policies and innovations will drive or mitigate pressures on the marine environment? In particular: which sectors will see their pressures on marine ecosystems significantly reduced - and why? To the contrary, which sectors will see their pressures on marine ecosystems significantly increased - and why?
- ▶ Q5. What can we expect the **MSFD implementation** to deliver in coming years? Which bottlenecks will continue to hamper its implementation? Which developments and innovations are expected to speed up implementation and the delivery of GES?
- ▶ Q6. Which (existing, revised or new) **environmental policies** will (continue to) support to the implementation of the MSFD and need to be considered in the dynamic baseline scenario? Which ones will be key in terms of their expected impacts on reducing pressures and delivering GES?



Many thanks for your attention

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