WP 4 - Multi-use in practice

From Mariparks to basin scale Multi-Use

Marijn Rabaut & Kinnie De Beule

Blue Cluster

WP4 kick off

Multi-Use

AGENDA

- From eMSP to NESBp for a sustainable blue economy
- WP4 goal and approach
- WP4 & GNSBI working track multi use
- MSP update (BE)

eMSP NBSR
Emerging Ecosystem-based Maritime Spatial Planning Topics in the North and Baltic Sea Regions

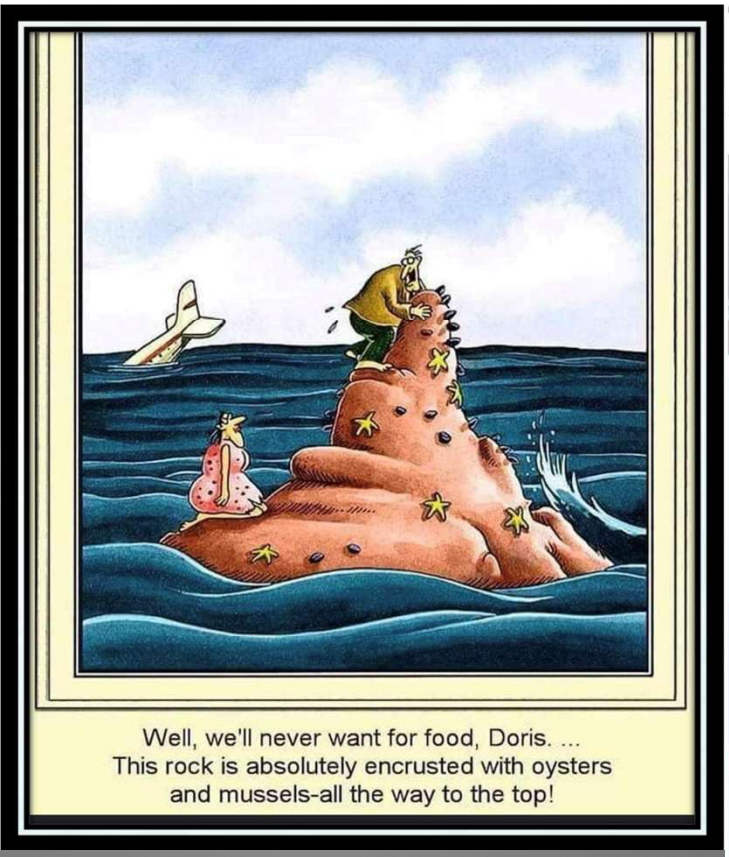
Co-funded by the European Union

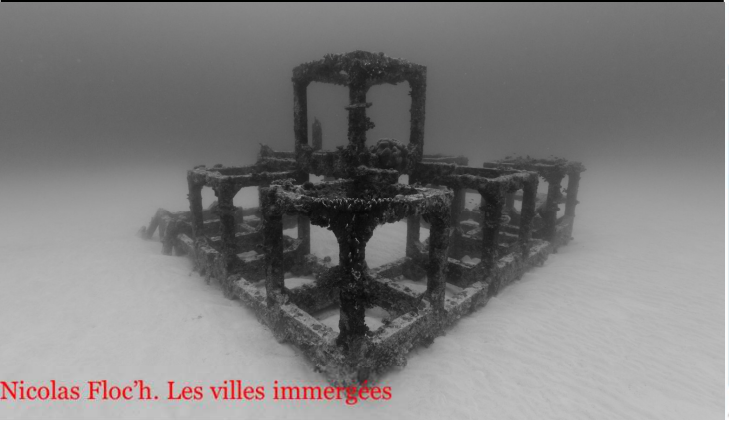
Towards a blue economy in a sustainable way

The success of developing a sustainable blue economy asks for an overall vision of the future of our oceans and seas. How do we want them to look in 2050 and beyond?

www.eMSPproject.eu

Nicolas Floc'h. Les villes immergées





Nicolas Floc'h. Les villes immergées

"Russische spion"-walvis duikt op bij Zweden

Een beluga walvis is voor de kust van Zweden weer opgedoken, vier jaar nadat hij in Noorwegen was gezien met een harnas om. Er wordt gespeculeerd dat het een door de Russische marine getrainde spion was

Beluga bijgenaamd "Hvaldimir" met een harnas in 2019

WALVIS TIJDLIJN

1 Apr 2019: Tamme beluga walvis verschijnt in noorden van Noorwegen, draagt een harnas met camerahouder en label dat naar St.-Petersburg verwijst. Marinebiologen verwijderen harnas

2 Mei 2023: Walvis wordt gezien in Oslo-fjord nadat hij jaren rond Noorse kust heeft gezwommen

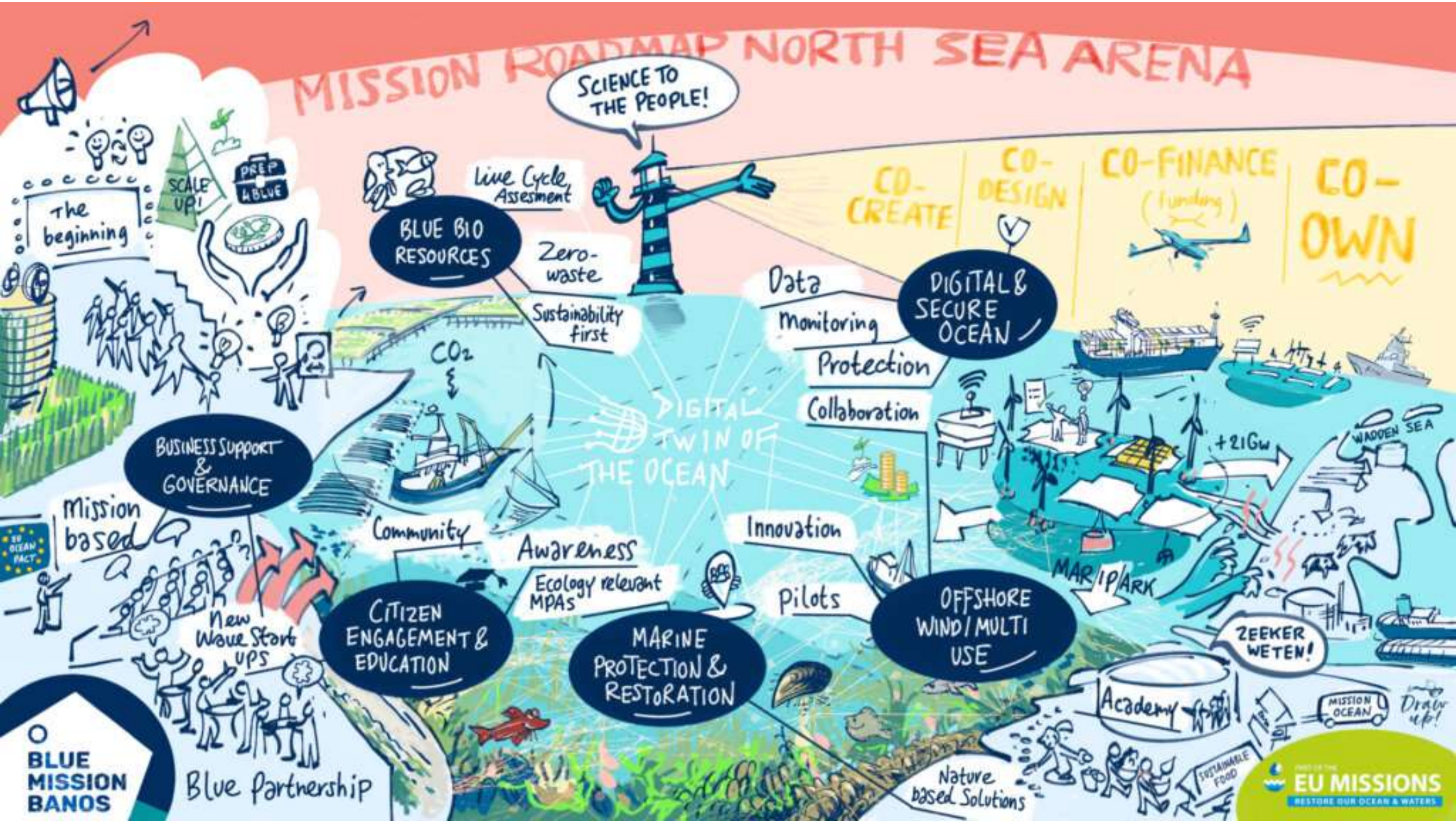
3 28 mei: Waargenomen in Hunnebostrand, Zweden, verder weg van zijn natuurlijke habitat in de Noordelijke IJszee en nabijgelegen zeeën

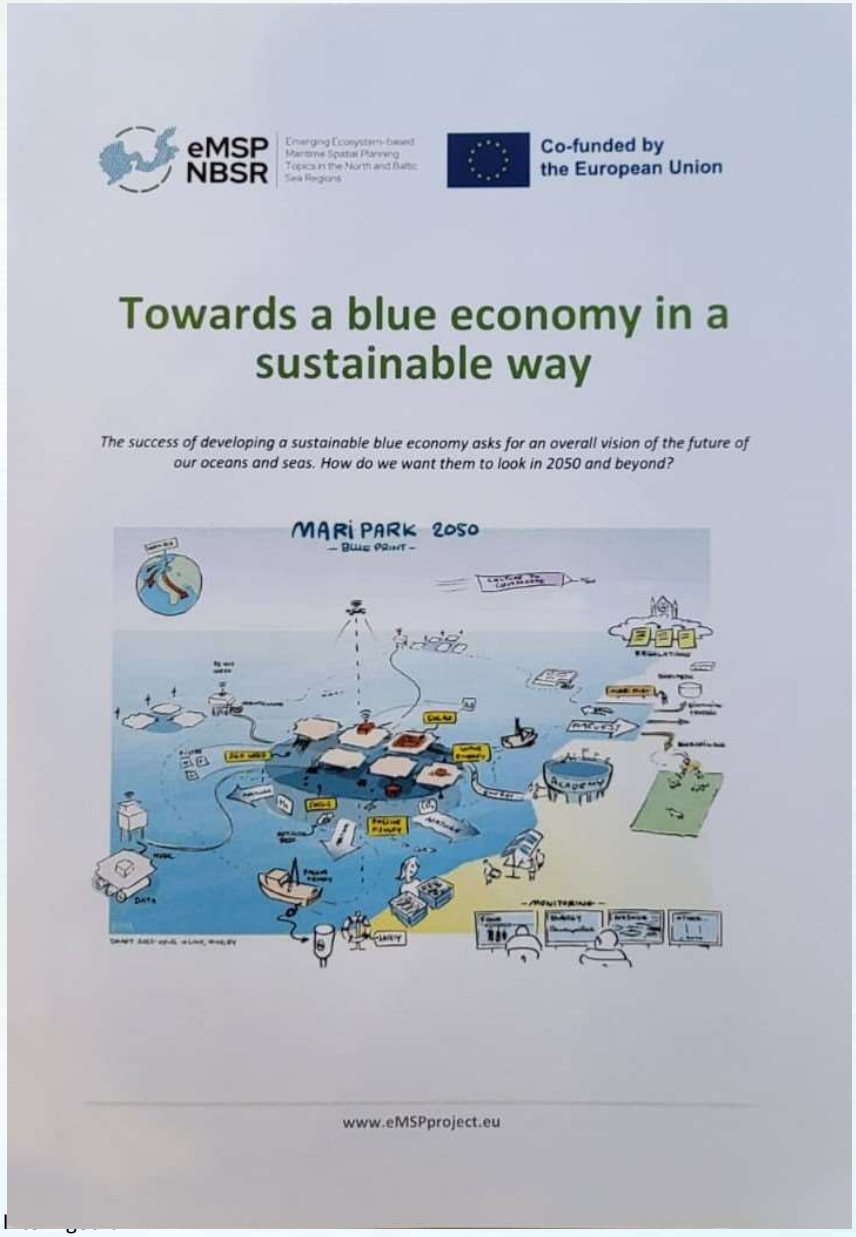
Moermansk: Basis van de Russische Noordelijke Vloot. Noorse ambtenaren denken dat walvis ontsnapt is uit trainingsprogramma Russische marine

Bronnen: BBC, Business Insider, OneWhale

© GRAPHIC NEWS

The bottle Fons Oerlemans


MISSION ROADMAP NORTH SEA ARENA
SCIENCE TO THE PEOPLE!
CO-CREATE
CO-DESIGN
CO-FINANCE
(funding)
CO-OWN
The beginning
SCALE UP!
PREP 4 BLUE
BLUE BIO RESOURCES
Live Cycle Assesment
Zero-waste
Sustainability first
DIGITAL & SECURE OCEAN
Data
Monitoring
Protection
Collaboration
DIGITAL TWIN OF THE OCEAN
BUSINESS SUPPORT & GOVERNANCE
Mission based
EU OCEAN PACT
Community
Awareness
Ecology relevant MPAs
Innovation
Pilots
CITIZEN ENGAGEMENT & EDUCATION
MARINE PROTECTION & RESTORATION
OFFSHORE WIND / MULTI USE
+21Gw
WADDEN SEA
MARIPARK
ZEEKER WETEN!
New Wave Start UPS
Academy
MISSION OCEAN
Draw up!
SUSTAINABLE FOOD
Nature based Solutions
BLUE MISSION BANOS
Blue Partnership
EU MISSIONS
RESTORE OUR OCEAN & WATERS


eMSP NBSR
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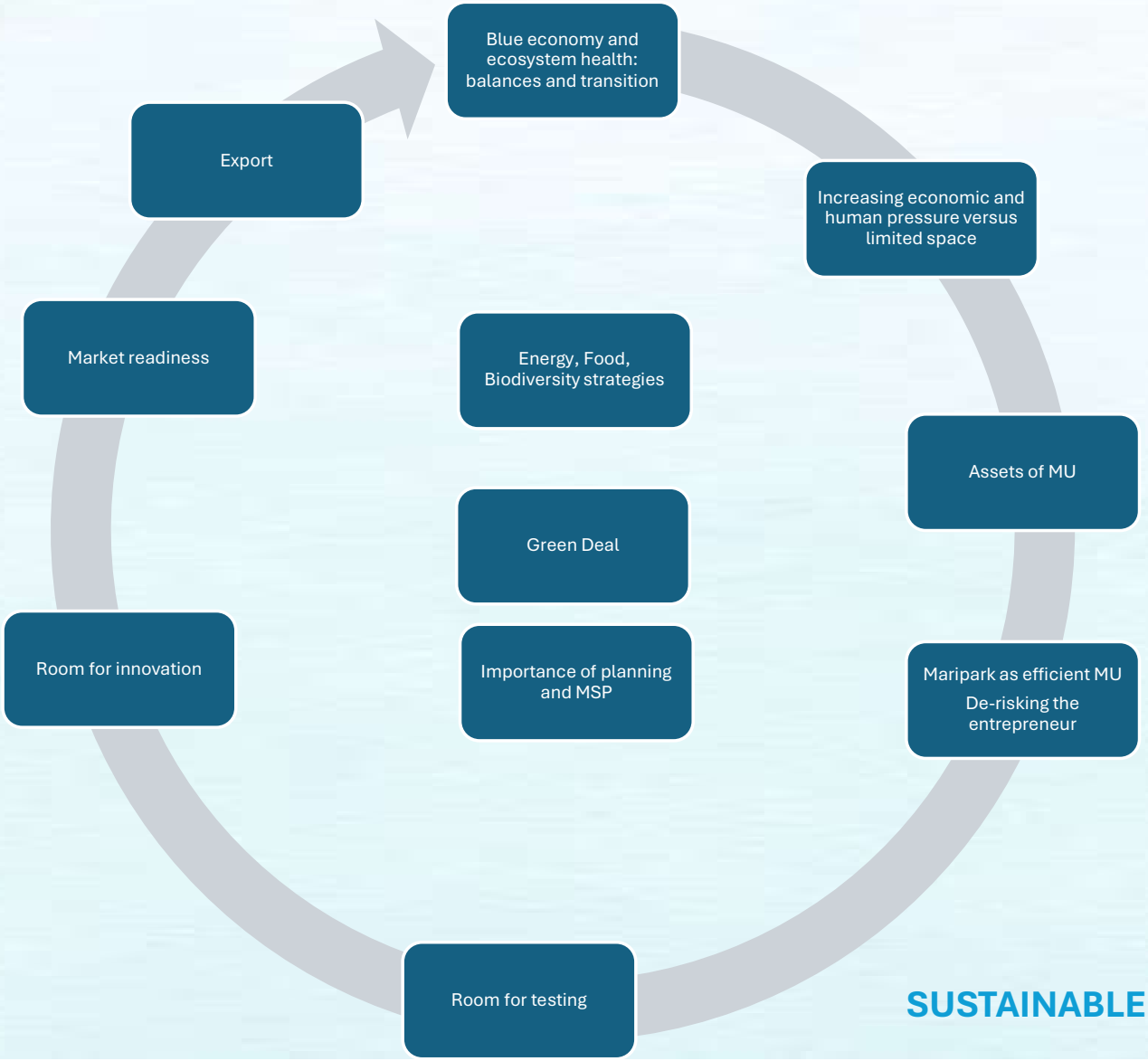
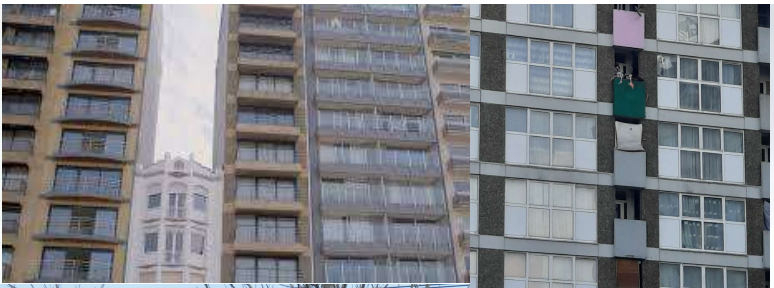
MARI PARK 2050
– Blue Print –
www.eMSPproject.eu


Blue economy and ecosystem health: balances and transition
Increasing economic and human pressure versus limited space
Assets of MU
Maripark as efficient MU
De-risking the entrepreneur
Room for testing
Room for innovation
Market readiness
Export
Energy, Food, Biodiversity strategies
Green Deal
Importance of planning and MSP
SUSTAINABLE

Power of planning

Chandigarh, India by Le Corbusier - Green, functionalities, aesthetics, design



Failure of planning

DÉLIO JASSE Sem Valor - Urgente, 2019


Tentstation
2009: Melle Smets tenstation

SBE eMSP-NBSR project

Recommendations

1

We recommend focusing on broad integrated research on all quantified impacts of climate change on the Blue Economy as a whole. This includes existing blue economies, such as tourism, shipping and fisheries, and emerging economies such as offshore seaweed and shellfish farming and offshore renewable energy. Quantification of these impacts can help including mitigating measures targeting these impacts in the EU member state's maritime spatial plans.

2

We recommend identifying (cumulative) human pressure factors, like for example mentioned in the key messages from the 'QSR2023' and the 'State of the Baltic Sea 2023' report, and making spatial and policy choices based on these factors that will trigger a movement to achieve a sustainable blue economy.

3

Achieving a sustainable blue economy requires a delicate balance between all the different interests and needs of the various users of the sea. At the same time, the precautionary principle must be applied, to ensure the activities do not negatively impact each other and/or the environment. We recommended, identifying mitigating measures, for the benefit of nature or people, in advance. When setting up a mitigating package of measures, it is advisable to investigate synergies and economies of scale that may arise precisely as a result of increased activities at sea.

4

We recommend including and integrating multiple use in the design of new wind farms. The preconditions needed to make multi-use successful can then also be included in the programme of requirements of new wind farms. For existing wind farms, we recommend that policy, laws and regulations provide clarity on multi-use of space and, here too, the preconditions to make multi-use possible.

5

It is clear that for multi-use to grow into a mature sector, it needs an overarching approach in which all stakeholders work intensively together from their own roles and responsibilities. We recommend. Setting up a public-private partnership to help to reduce risks to an acceptable (entrepreneurial) level in a coherent and pragmatic way ensuring the realisation of societal values.

Integrated research

Cumulative impacts

Mitigation of measures/ Economies of scale

MU as standard

Partnerships

Entity

We recommend the creation of an entity co-responsible for use of space at sea, the organisation and streamlining of such use, and responsible for the realisation and maintenance of basic infrastructure for multi-use at sea.

Specific maripark requirements

It is paramount to develop a list of requirements for each individual Maripark. Since each Maripark will provide services to different possible forms of usage. Food production requires a different infrastructure than for example renewable energy of maybe even nature development.

Regulatory framework

Provide a regulatory framework to make the realization of Mariparks possible. Ensure that a solid balance is established between the responsibilities of the government and the private sector, also through property or usage rights, to ensure the viability of Mariparks.

sharing

Ensure cooperation and collaboration on an equal level between all relevant organizations and individuals to ensure can further enhance knowledge sharing, learning, networking, collaboration, and innovation within their communities, thus fostering a more robust multi-use environment. A Community of Practice way of working proved to be a very relevant and vibrant method to do so.

Infrastructure synergies

The increasing use of the sea also requires effective coordination at the operational level among various forms of usage. Sharing basic infrastructure in this context can lead to cost reduction for all parties involved. Therefore, we recommend that the scope of Maripark not only provides services for emerging multi-use initiatives but also for the existing blue economy.

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DESIGN a Maripark in WP4 - Governance, data, EMP, economic assessment, activity and synergy assessment, safety and security, buildling blocks, scenarios, EBA, … integrate this in MSP ..

RETHINK

The Maripark represents a new way of thinking and provides a clear pathway for succeeding with multi-use

The traditional approach of businesses operating within silos and focusing on their specific sectors will not enable the realization of the full value potential of the blue economy.

By adopting a flexible and sector-unspecific approach, businesses open doors for collaboration and innovation, as diverse industries converge to create and deploy the necessary technology and solutions. By sharing resources and infrastructure across sectors, companies can minimize their environmental footprint while maximizing the value derived from their operations.

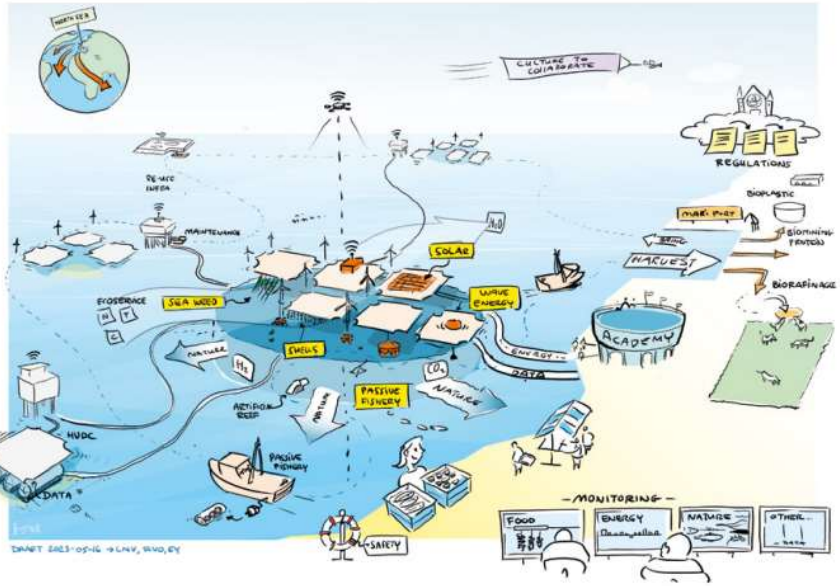
The Maripark can facilitate the transition from sector-specific, single-use activities to sector-unspecific, multi-use business approaches.

It can serve as an environment for collaboration, enable businesses to make the most of the available resources and space within windfarms, promote sustainable practices, and realize synergies. It will take concerted team effort to embrace this new mindset and to form a plan for multi-use realization.

OLD WAY

- Single use
- No / few synergies
- Financial / economic focus
- Sector specific considerations
- Every activity has its own framework for safety
- Linear process

MARIPARK
Project Blueprint 2050



NEW WAY

- Shared use (ecological, nature-based, food aspect)
- Realization of synergies
- Innovative and attractive for numerous activities
- Holistic and sector-unspecific
- Shared resources, infrastructure and safety by design
- Circular processes as a design principle

Source: E&Y Maripark BluePrint

WP4 - GOAL & partners

Visualise and design a Maripark – 2+ locations NS.

Clear **governance** structure, an **EMP** for park data management, clear **activity** selection, with optimal **integration and synergies**.
Scenarios are developed using **external expert** input and work shops.
Inclusion of **safety and security** management is an asset.

The park is designed to **DE-RISK** the entrepreneur, stimulate innovation.

The **economic** assessment of the activity selection is key.

Concrete policy recommendations **MSP** authorities ea.
Uplifted to basin scale, strongly interlinked with GNSBI goals.

Further Masterplanning basin wide.

Policy advise, will we choose Multi-Use? The momentum is now.

Additional LS Policy rec. addressed in WP4

DATA

Intern. data standards

MSP output FAIR

Enrich data sharing platforms

Reference lists

framework protocol for Blue Corridors implementation

invest in geospatial visualization technologies and resources.

Continue supporting transboundary MSP projects

Involve MSP authorities

OCEAN GOVERNANCE

Prioritise climate-smart ocean governance

Strengthen transboundary thinking, communication and collaboration in ocean governance.

Multi-use and co-existence as a principle and priority in MSP - at strategic and operational scale.

Increase involvement planners, sector experts and policy-makers for next-generation MSP.

Promote education and ocean literacy to serve future ocean governance.

Develop structures to complement the existing incomplete formal frameworks for stakeholder involvement.

Create robust monitoring and evaluation frameworks and more integrated data management platforms for MSP in the NBSR.

EBA

MSP and spatial nature protection processes

Integration MSP into the MSFD for achieving GES

Precautionary principle in MSP

joint Strategic Environmental Assessment framework to strengthen impact assessments and its integration to MSP.

transnational impact assessments
Developing and sharing methods climate change in MSP.

CoP for stakeholder engagement.

M&E

Plan effectiveness, SH, sector dev., env, monitoring, frameworks, coherence

Streamline
Cover CC
M&E in planmaking
Evaluation results

deliverable
milestone

Maripark in MSP as tool for Basin scale Multi-use

Locations/partners: NL & BE, (D)

Developing **governance framework** in relation to EBA and permitting (Mantis, IMDC, BC) policy brief, ecosystem performance workshop

Integration and **synergies of economic** activities in a Maripark: blueprint (BC, LNV, BSH, Mantis) blueprint (report)

Data sharing to facilitate adaptive management in NL BE Mariparks, base: blueprint (Shom, SUB, IMDC) Maripark data sharing and EMP for Mariparks (2 reports), 1 workshop

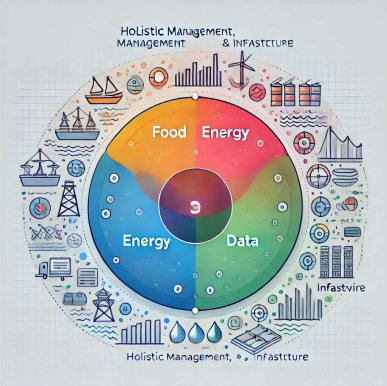
Scenario building for Mariparks (ORG, SUB, Mantis, IMDC, BC) scenarios, 4 workshops

Upscaling of **MU to sea basin** level (SUB, ORG, Mantis, IMDC, BC) policy analysis (report), series of workshops in support of GNSBI MU track

Maripark in zone X BE/NL NS

4.1 Mantis, IMDC, BC
EBA governance framework

- opportunities permitting
- opportunities incentives
- foster collaboration



4.3 Shom, SUB, IMDC
Monitoring by data

- environmental monitoring plan data park management
- advanced monitoring
- adaptive management
- security and safety

4.2 Blue Cluster, BSH, Mantis, LNV
Sustainable strategies

- location & activity selection
- integration and max. synergies
- MSP

4.4 ORG, SUB, Mantis, IMDC, BC, RVO, LNV
Designing parks

- analysis marketable scenarios incl. business cases & economic feasibility + comply with regulation
- test scenarios & full scenario development towards masterplanning
- work shops and external expert input
-

Output: advise policymakers, investors, and stakeholders to promote the sustainable development of Mariparks and enhance European maritime infrastructure sea basin wide

-> 4.5 Upscaling to Sea basin level SUB, ORG, Mantis, IMDC, BC

4.5 Sea basin wide policy for MU

SUB, ORG, Mantis, IMDC, BC

The concept of Mariparks in a broader approach on policy level to spread the implementation of multi-use on sea-basin level.

Upscaling the MU to sea-basin level

MU / Maripark SeA Basin Workshop (MS14 – M12 Nov 25)

In support of GNSBI working track on MU, series of workshops will be organised to discuss MU developments in the Baltic and North Sea

Outcomes of the workshops

- Complementing existing knowledge
- Preparation of factsheets
- Validation of draft recommendations

Preparation of deliverable

- Existing knowledge (projects, reports)
- Outcomes of workshops
- Factsheets
- Strategies and recommendations

1- Sharing experience: from pilot projects to mainstream multi-use

Share info eMSP, NESBp, SUB (OPV LTA), share planned deliverables and co-write, plan & co-organise workshops

2-Multi-use for a sustainable blue economy in the GNSBI

Info eMSP SBE shared, connection with T4.2 on strategies

3- Multi-use for a healthy greater North Sea

Link with WP3, link with 4.3, cumm. Impacts on Mariparks can be extended to MU

4- Foresight: what could multi-use development in the north sea look like?

Potential. Collaborate with 4.5 and 4.4 (SUB, ORG)

MSP policy Belgium

- Federaal regeerakkoord 2025 – federal governmental agreement

> ...
>
> • .... Mariene Ruimtelijke Plan waken we over het **evenwicht tussen de verschillende activiteiten** (transport, energie, zeevisserij, ...) en de biodiversiteit ter bescherming van de ecosystemen en laten we voldoende ruimte voor **innovatie en interconnectie**.
>
> • ... blijft het een aandachtspunt om **sectoren niet tegen elkaar uit te spele**n of op te offeren. Bij de afbakening van zones moet ook meer gekeken worden naar het goed **zoneren van economische activiteiten en moeten we de cumulatieve impact** ervan aanpakken.
>
> • ... aquacultuur en visserij-mogelijkheden te blijven voorzien, wordt er gekeken naar de ontwikkeling van zones voor **commerciële en industriële activiteiten** (CIA-zones). We **clusteren** meerdere functies (energie, monitoring, veiligheid, aquacultuur), terwijl wordt gestreefd naar het meest rechtvaardige gebruik van de mariene ruimte, waarbij conflicten met andere vormen van gebruik tot een minimum worden beperkt en de integriteit van het milieu behouden blijft.
>
> ...

- New formation federal government/regeringsformatie - completed
- Lobby work - Blue Cluster
- Assesment MSP - Integration in new MSP 2026 - 2034
- Goal: integration concept Maripark or similar

Timeline

TASK	4.1 (Mantis, IMDC, BC)		4.2 (BC, BSH, Mantis)			4.3 (Shom, IMDC, Sub)	4.4 (ORG, Mantis)	4.5 (Sub, ORG, Mantis, IMDC, BC)
January	Governance	Incentive	Location selection	Activity selection	integration MSP	EMP management FW		Data collection
February	Governance	Incentive	Location selection	Activity selection	integration MSP	EMP management FW		Data collection
March	Governance	Incentive	BRAINSTORM activity, location (online)		integration MSP	EMP management FW	Fact sheets and rules	Data collection
April	Governance	Incentive			integration MSP	EMP management FW	Fact sheets and rules	
May	Governance	Incentive			integration MSP	Workshop EMP data	Fact sheets and rules	
June	Governance	Incentive			integration MSP	EMP management FW		
July	Governance	Incentive			integration MSP	EMP management FW		
August					integration MSP	EMP management FW	Masterplanning 3 cases	
September					integration MSP	EMP management FW	Masterplanning 3 case	Policy brief on transb MSP
October					integration MSP	EMP management FW	Masterplanning 3 cases	
November			BE tender and permit		integration MSP	EMP management FW	SEA basin wide approa	Workshop series sea basin
December			BE tender and permit		integration MSP	EMP management FW	Work benches	

Deliverable	Due	Date
EMP for Mariparks (data sharing)	M12	nov/25
Maripark data sharing	M15	feb/26
Maripark scenarios (trhough work benches)	M15	feb/26
Policy brief on governance framework in relation to EBA and permitting	M24	nov/26
Maripark blue print	M26	jan/27
Policy analysis report MU sea basin level	M28	March 2027

THANK YOU

BLUE CLUSTER

SHOM
L'océan en référence

BSH
BUNDESAMT FÜR SEESCHIFFFAHRT UND HYDROGRAPHIE

MANTIS CONSULTING

ORG

IMDC | A company of TRACTEBEL ENGIE

SUBMARINER NETWORK

Netherlands Enterprise Agency