

STRATEGIC OBJECTIVE NO. 1: FUNCTIONING OF MARINE AND COASTAL ECOSYSTEMS

Maintain or restore the good functioning of marine ecosystems by limiting anthropogenic pressures on coastal, inshore and offshore areas.

A major issue in the Eastern Channel-North Sea sea basin, marine ecosystems are complex and fragile ecological structures, and their health depends directly on the nature and level of pressures generated by human activity.

A limit on physical disturbances to pelagic and benthic habitats and the implementation of sustainable methods for the exploitation of marine resources with minimal environmental impacts in order to reduce pressures on species and habitats.

Avoidance of activities that disturb protected species and reducing the risks of introducing non-native species also reduces pressures on marine environments.

SPECIFIC OBJECTIVES

39 specific EO (see table)

STRATEGIC OBJECTIVE NO. 2: MARINE AND COASTAL BIODIVERSITY

Preserve species and marine habitats that are rare, endangered or play an important role in the food web and ecological connectivity by taking appropriate protection or restoration measures.

A major issue in the Eastern Channel-North Sea sea basin, maintaining marine biodiversity requires taking appropriate protection or restoration measures.

Extremely rich in marine habitats, the sea basin is also the home range, feeding area, resting and wintering ground, breeding site or transit point for many marine species that contribute to biological diversity and the healthy functioning of ecosystems, from the bottom to the top of the food web.

In addition to action to reduce anthropogenic pressures on marine environments, the adoption of marine protected area management documents and the adoption of regulatory measures to protect rare or endangered species and habitats help conserve the ecological wealth of marine environments.

The implementation of measures to remove artificial obstacles and the restoration of natural areas also helps to conserve or reestablish ecological connectivity in marine environments and enhance marine biodiversity.

SPECIFIC OBJECTIVES

15 specific EO (see table)

STRATEGIC OBJECTIVE NO. 3: COMMERCIAL FISHING

Strengthen marine fishing activities by maintaining productive and healthy marine habitats and ensure sustainable management of the Channel and North Sea resources.

With 780 ships present in the waters of the coastal area, generating 24% of the national production value from this activity, fishing relies on the naval industry sector to renew its fleets and equipment.

Strengthening the link with other production and marketing chains in the Eastern Channel-North Sea promotes the best increase in value of seafood products.

Oriented towards achieving the maximum sustainable yield, the development of fishing remains conditioned by the good environmental status of marine environments, particularly benthic and pelagic habitats. Maintaining fish stocks and feeding areas and spawning grounds is promoted through the management of fishing effort and responsible practices.

Technological innovation contributes to strengthening the environmental dimension of commercial fishing activities.

Adapting the maritime training offer contributes to encouraging commitment to commercial fishing professions.

SPECIFIC OBJECTIVES

3A

Make the ecological transition of fishing vessels through the renewal of fleet and equipment, while preserving the artisanal sector

3B

Promote seafood marketing

3C

Support seafood certification processes which contribute to ensuring the sustainable development of resources

3D

Support the implementation of a system for the collection and recycling of used fishing gear and nets

Specific strategic objective

Make the ecological transition of fishing vessels

	through the renewal of fleet and equipment, while preserving the artisanal sector
Specific objective code	3A
Issues/subject	Economy
Strategic objective	3 - Strengthen marine fishing activities by maintaining productive and healthy marine habitats and ensure sustainable management of the Channel and North Sea resources.
Relevant activities	Commercial fishing; shipbuilding and nautical industries
Indicator and target (where possible)	<p>Indicator 1: Number of applications validated under measure 26 of the EMFF (Innovation) Target 1:</p> <p>Indicator 2: Fleet average fuel consumption Target 2: Downward trend in fleet fuel consumption</p> <p>Indicator 3: Number of Operation Permits (Permis de Mise en Exploitation) issued per year Target 3: Increase</p> <p>Indicator 4: Average age of vessels per district Target 4: Decrease</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Innovation; Economy
Associated existing public policies	EMFF
Impacts on other strategic objectives	13A D01-HB-OE-04-05-07-11; D01-MT-OE-02-03 ; D01-OM-01; D01-PC-01-05 ; D06-OE02 ; D08-OE02-03-04 ; D10-OE02
Avenues for operational measures	<ul style="list-style-type: none"> - Encourage the use of innovative fishing vessels (for fishing methods, materials and fuel used) according to vocation (inshore fishing, offshore fishing, etc.) and gear (passive or towed) - Facilitate landing (especially weighing) - Promote artisanal and estuarine fisheries - Improve facilities and encourage the construction of green buildings on land - Work towards better environmental compatibility of practices through innovation (reduction of impacts, means of propulsion, etc. - Develop a fishing vessel equipment plan by 2021

Specific strategic objective	Promote seafood marketing
Specific objective code	3B
Issues/subject	Economy

Strategic objective	3 - Strengthen marine fishing activities by maintaining productive and healthy marine habitats and ensure sustainable management of the Channel and North Sea resources.
Relevant activities	Commercial fishing; Aquaculture; Seafood marketing
Indicator and target (where possible)	
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Economy
Associated existing public policies	PSNDAD
Impacts on other strategic objectives	3C 12F
Avenues for operational measures	<ul style="list-style-type: none"> - Bring together the fisheries and aquaculture sectors to share subcontracting costs and keep energy costs down - Carry out a large-scale review of the movement of fishery products in the Eastern Channel-North Sea basin. - Promote direct sales (short supply chains) - Enhance fish markets (auction houses) - Develop the export market - Promote initiatives for the public to discover seafood products (on-site tasting, culinary events, etc.) - Support and develop seafood product processing activities around ports and the upgrading of the product range - Bring frozen circuits up to standard and seafood supply logistics (Lahoche Report) - Reduce the share of landing marketing costs borne by fishermen

Specific strategic objective	Support seafood certification processes which contribute to ensuring the sustainable development of resources
Specific objective code	3C

Issues/subject	Economy
Strategic objective	3 - Strengthen marine fishing activities by maintaining productive and healthy marine habitats and ensure sustainable management of the Channel and North Sea resources.
Relevant activities	Commercial fishing; Seafood marketing
Indicator and target (where possible)	<p>Indicator 1: Number of applications validated under measures 68 and 69 of the EMFF (Marketing measures) and (Processing of fishery and aquaculture products), as well as 66 of the EMFF (Production and marketing plans)</p> <p>Target 1: Increase</p> <p style="text-align: center;"><u>Fishing</u></p> <p>Indicator 2: Number of seafood products with a quality label (MSC, Artysanal, Sustainable Fishing Eco-label, Pavillon France, Label rouge, PGI)</p> <p>Target 2: Increase</p> <p>Indicator 3: Amount of landings of seafood products with a quality label</p> <p>Target 3: X% of products with a quality label</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Awareness
Associated existing public policies	EMFF PAPPC PSNDAD
Impacts on other strategic objectives	3B D03-01-02; D04-OE01; D09-OE01-02-03
Avenues for operational measures	- Carry out market research - Labelling - origin of products in ready-made meals - 2018 Biodiversity Plan: Action 58 prohibit electric fishing

Specific strategic objective	Support the implementation of a system for the collection and recycling of used fishing gear and nets¹
Specific objective code	3D
Issues/subject	Circular economy; Good environmental status
Strategic objective	3 - Strengthen marine fishing activities by maintaining productive and healthy marine habitats and ensure sustainable management of the Channel and North Sea resources.
Relevant activities	Commercial fishing
Indicator and target (where possible)	<p>Indicator 1: Volume of plastic waste from fishing activity found on beaches Target 1: Decreasing)</p> <p>Indicator 2: Volume of waste re-used Target 2:</p> <p>Indicator 3: Number of ports in the sea basin with a system for collecting fisheries waste Target 3:</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Port facilities; Research and development
Associated existing public policies	
Impacts on other strategic objectives	7G D01-OM-OE01; D10-OE02
Avenues for operational measures	<ul style="list-style-type: none"> - Create areas for collecting and sorting waste on vessels - Raise awareness among fishermen of the most environmentally friendly fishing techniques - Use of degradable materials - Involve the local authorities for the treatment of waste on land

STRATEGIC OBJECTIVE NO. 4: AQUACULTURE

Strengthen the shellfish assets and fish potential of the Eastern Channel-North Sea sea basin by preserving the quality of coastal waters and maintaining healthy and productive marine environments.

Innovation, research and development, and the simplification of administrative procedures help to improve the shellfish and aquaculture productivity of the Eastern Channel-North Sea sea basin. The aquaculture sector in Normandy and Haut-de-France is committed to increasing fish production by 40% by 2020, in compliance with health and environmental requirements.

The optimisation of cultural practices, in particular monitoring the risk of dissemination of non-native species and technical innovation both support the adaptation of the sector to the issues of coastal waters and marine ecosystems, keeping local aquaculture in line with a sustainable perspective. The establishment of shellfish and aquaculture enterprises on the coastal fringe, in the immediate vicinity of production areas and access to seawater, is ensured by privileged access to coastal land.

Training in various aquaculture activities is reinforced by the development of traineeships, allowing easy access to employment and taking into account the specificities of each sector (fish farming, shellfish farming, aquaponics, seaweed farming and crustacean farming). Trades will be made more attractive by improving working conditions, notably by encouraging housing solutions close to the operating areas.

Increasing the value of the products is promoted by establishing quality labels, developing marketing (short circuits, export, etc.) and through campaigns and promotional events.

SPECIFIC OBJECTIVES

4A

Increase marine fish production in the sea basin by 40% by 2020

4B

Promote the creation of new aquaculture zones and activities

4C

Encourage the transition of aquaculture activities towards models that are sustainable and that respect biodiversity

4D

Ensure marketing capacity is maintained despite the health risk

4E

Support seafood certification processes, which contribute to ensuring the sustainable development of resources

4F

Promote seafood marketing

Specific strategic objective	Increase marine fish production in the sea basin by 40% by 2020
Specific objective code	4A
Issues/subject	Economy
Strategic objective	4 -Strengthen the shellfish assets and fish potential of the Eastern Channel-North Sea basin by preserving the quality of coastal waters and maintaining healthy and productive marine environments.
Relevant activities	Aquaculture
Indicator and target (where possible)	<p>- Indicator 1: Volume of fish farm production Target 1: Increase of 40% by 2020</p> <p>Indicator 2: Value of fish farm production Target 2: Increase relative to production volume</p> <p>Indicator 3: Average number of species farmed by aquaculture companies</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Economy; Research and development Co-existence of activities; Knowledge
Associated existing public policies	PSNDAD SRDAM (Regional plans for the development of marine aquaculture)
Impacts on other strategic objectives	3B ; 4B
Avenues for operational measures	<ul style="list-style-type: none"> - Installation of new fish farms, encouraging methods that limit animal pollution - Improve knowledge about the impacts and carrying capacity the habitat can support in order to reduce impacts on the marine environment (including forage species) - Diversify the sector: artisanal enterprises, species diversification

Specific strategic objective	Promote the creation of new aquaculture zones and activities
Specific objective code	4B
Issues/subject	Economy
Strategic objective	4 -Strengthen the shellfish assets and fish potential of the Eastern Channel-North Sea basin by preserving the quality of coastal waters and maintaining healthy and productive marine environments.
Relevant activities	Aquaculture
Indicator and target (where possible)	Indicator 1: Number of applications for innovative aquaculture concessions in the past 5 years Indicator 2: Area of the Maritime Public Domaine suitable for aquaculture development Indicator 3: Number of aquaculture facilities beyond the foreshore
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 2, 3, 4 , 6 and 7
Influencing factors	Simplification of administrative procedures; Research and development; co-existence of different uses of the coast and sea; Knowledge
Associated existing public policies	PSNDAD (Best possible aquaculture sites (MEAP)) SRDAM (Regional plans for the development of marine aquaculture)
Impacts on other strategic objectives	4A; D01-HB-OE-03-04-05-07; D01-PC-OE05 D02-OE01-02-05; D06-OE01-02; D07-OE01-03; D08-OE04; D09-OE-01; D10-OE02
Avenues for operational measures	- Define the map of the potential for new sites for the development of coastal and offshore aquaculture (SDRAM)

Specific strategic objective	Encourage the transition of aquaculture activities towards models that are sustainable and that respect biodiversity
Specific objective code	4C
Issues/subject	Good Ecological Status
Strategic objective	4 -Strengthen the shellfish assets and fish potential of the Eastern Channel-North Sea basin by preserving the quality of coastal waters and maintaining healthy and productive marine environments.
Relevant activities	Aquaculture; Research and development
Indicator and target (where possible)	<p>Indicator 1: Number of applications validated under measure 47 of the EMFF (Innovation in aquaculture) Target 1: Increasing by 2025</p> <p>Indicator 2: Number of persons who benefited from an awareness campaign Target 2:</p> <p>Indicator 3: Number of companies who signed the provisions relating to the respect of environmental requirements in the structure plans</p>
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Innovation; Research and development
Associated existing public policies	PSNDAD SRDAM (Regional plans for the development of marine aquaculture)
Impacts on other strategic objectives	D02-OE01-02-05; D08-OE04; D09-OE01; D10-OE02
Avenues for operational measures	<ul style="list-style-type: none"> - Launch of calls for projects on the creation of biodegradable aquaculture structures - Launch of calls for projects on research and the creation of businesses related to marine aquaponics (in symbiosis with algaculture) - Encourage research and trials on 1) farmed fish feed 2) innovative sea water closed circuit systems - Encourage synergies with other stakeholders, eg. adding value to sea shells, project VALCOQAGRI - Reduce the carbon footprint

Specific strategic objective	Ensure marketing capacity is maintained despite the health risk
Specific objective code	4D
Issues/subject	Health risks; Economy
Strategic objective	4 - Strengthen the shellfish assets and fish potential of the Eastern Channel-North Sea basin by preserving the quality of coastal waters and maintaining healthy and productive marine environments.
Relevant activities	Aquaculture
Indicator and target (where possible)	<p>Indicator 1: Number of applications validated under measure 48 of the EMFF relating to infrastructure or material intended for storage and/or depuration</p> <p>Target 1: x applications</p> <p>Indicator 2: Number of production zones that support continued marketing in the event of a health risk (ongoing example: revision of the Manche POLMAR Plan (relay zones in the event of pollution), water supply protocol in the event of closures due to a norovirus outbreak)</p> <p>Target 2: x zones</p>
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 2, 3, 4, 5,6, 7
Influencing factors	Information; Planning
Associated existing public policies	PSNDAD SRDAM (Regional plans for the development of marine aquaculture)
Impacts on other strategic objectives	D02-OE01-02-05; D07-OE05; D08-OE04; D09-OE01-02-03
Avenues for operational measures	POLMAR Plan and management of norovirus

Specific strategic objective	Support seafood certification processes, which contribute to ensuring the sustainable development of resources
Specific objective code	4E
Issues/subject	Economy
Strategic objective	4 - Strengthen the shellfish assets and fish potential of the Eastern Channel-North Sea basin by preserving the quality of coastal waters and maintaining healthy and productive marine environments.
Relevant activities	Aquaculture: Seafood marketing
Indicator and target (where possible)	<p>Indicator 1: Number of applications validated under measures 68 and 69 of the EMFF (Marketing measures) and (Processing of fishery and aquaculture products), as well as 66 of the EMFF (Production and marketing plans) Target 1: Increase by 2030</p> <p>Indicator 2: Number of labels Label Rouge, IGP, AOP, etc. Target 6: x</p> <p>Indicator 3: Number of products labelled compared to total production Target 2: x%</p> <p>Indicator 4: Adding value through product specifications, as in organic farming</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Awareness
Associated existing public policies	EMFF PAPPC PSNDAD
Impacts on other strategic objectives	3B D02-OE01-02-05; D08-OE04; D09-OE01-02-03
Avenues for operational measures	- Carry out market research - Labelling- origin of products in ready-made meals

Specific strategic objective	Promote seafood marketing
Specific objective code	4F
Issues/subject	Economy
Strategic objective	4 - Strengthen the shellfish assets and fish potential of the Eastern Channel-North Sea basin by preserving the quality of coastal waters and maintaining healthy and productive marine environments.
Relevant activities	Aquaculture: Seafood marketing
Indicator and target (where possible)	
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Economy
Associated existing public policies	PSNDAD
Impacts on other strategic objectives	3C 12F
Avenues for operational measures	<ul style="list-style-type: none"> - Bring together the fisheries and aquaculture sectors to share subcontracting costs and keep energy costs down - Carry out a large-scale review of the movement of aquaculture products in the Eastern Channel-North Sea basin. - Promote direct sales (short supply chains) - Enhance fish markets (auction houses) - Develop the export market - Improve the integration of processing and tasting activities near to production sites

STRATEGIC OBJECTIVE NO. 5: RENEWABLE MARINE ENERGIES

Develop all the Renewable Marine Energy sectors and their connections in the coastal area.

The diversification of the energy mix is a major challenge for the Eastern Channel-North Sea coastal area and corresponds to a national issue of ecological transition.

Five to eight calls for tenders on offshore wind turbines should be launched in the area by 2030 to take full advantage of its wind potential (1500 to 2400 km² minimum of potential areas). Identifying suitable areas for the development of wind and tidal projects are subject to extensive consultations. Coexistence between activities is encouraged in the planning and decision-making process.

“Research and development” encourages the mobilisation of new marine renewable energy technologies, and is based in particular on feedback from the first MRE projects and their associated environmental follow-up, which make it possible to more precisely describe the impacts of this activity on the environment. The development of shared connections from commercial or pilot farms contributes to reducing the environmental footprint of these projects. This innovation reinforces the co-existence of historic and emerging activities. The development of these MRE projects supports innovation in terms of connections to meet current and future real-world test requirements for medium and large power outputs, further offshore. The industrial fabric of the area, particularly the naval industry, is developing synergies that contribute to the development of the MRE sector. Maritime training must adapt to meet the specific needs of this sector.

MREs are addressed in the context of territorial projects. As such, they contribute to the consolidation of port infrastructures in relation to their reception in the activity zones.

SPECIFIC OBJECTIVES

5A

Identify at least 1 500 to 2 400 km² of potential zones for the installation of wind turbines in the sea basin

5B

Work in a coordinated manner in the development of all MRE projects and connections to support their presence in the area

5C

Promote a structured approach to the development of MRE which creates jobs in the sea basin

5D

Encourage trials of all MRE technologies and their connections

Specific strategic objective	Identify at least 1 500 to 2 400 km² of potential zones for the installation of wind turbines in the sea basin
Specific objective code	5A
Issues/subject	Economy
Strategic objective	5 - Develop all the Marine Renewable Energy sectors and their connections in the sea basin
Relevant activities	MRE
Indicator and target (where possible)	Indicator 1: Area in km ² of suitable zones identified Target 1: 1 500 km ² minimum
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 3, 4, 5 , 6 and 8
Influencing factors	Level of coordination
Associated existing public policies	Multi-Year Energy Programme (PPE, Programmation pluriannuelle de l'énergie)
Impacts on other strategic objectives	5C; 5D; D01- HB-07-11; D01-MT-OE01-03; D01-OM-OE02-07; D01-PC-OE05; D05-OE04; D06-OE01-02; D07-OE01-03; D08-OE5bis-07; D11-OE01-03
Avenues for operational measures	- Risk mitigation study

Specific strategic objective	Work in a coordinated manner in the development of all MRE projects and connections to support their presence in the area
Specific objective code	5B
Issues/subject	Acceptability: cultural and heritage issue
Strategic objective	5 - Develop all the Marine Renewable Energy sectors and their connections in the sea basin
Relevant activities	MRE
Indicator and target (where possible)	<p>Indicator 1: Consultation time for proposed MRE projects</p> <p>Indicator 2: Percentage of bodies represented in SBC that have given an opinion on proposed MRE projects</p> <p>Target 2: 100 %</p> <p>Indicator 3: Objective in terms of installed capacity in the sea basin over the short and medium term</p> <p>Target 3: Achieve the objective of projects under development/installed</p>
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 3, 4, 5 , 6 and 8
Influencing factors	Planning, launch of MRE calls for tender, objective of capacity of projects under development/installed
Associated existing public policies	Multi-Year Energy Programme (PPE, Programmation pluriannuelle de l'énergie)
Impacts on other strategic objectives	5A; 5C; 5D
Avenues for operational measures	<ul style="list-style-type: none"> - Organisation of a consultation in the sea basin to identify suitable zones for wind turbines in order to launch 5 to 8 calls for tender by 2030 - Organisation of a consultation to identify zones suitable for tidal power - Development of shared connections for pilot and commercial MRE installations to reduce both costs and the environmental footprint, encourage the co-existence of different sea uses

Specific strategic objective	Promote a structured approach to the development of MRE which creates jobs in the sea basin
Specific objective code	5C
Issues/subject	Economy
Strategic objective	5 - Develop all the Marine Renewable Energy sectors and their connections in the sea basin
Relevant activities	MRE
Indicator and target (where possible)	<p>Indicator 1: Number of FTE created by the MRE sector (data: MRE Observatory)</p> <p>Indicator 2: Number of companies representative of the whole value chain who are members of a cluster (data: MRE Observatory)</p>
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 3, 4, 5, 6 and 8
Influencing factors	Economy
Associated existing public policies	Multi-Year Energy Programme (PPE, Programmation pluriannuelle de l'énergie)
Impacts on other strategic objectives	5D
Avenues for operational measures	

Specific strategic objective	Encourage trials of all MRE technologies and their connections
Specific objective code	5D
Issues/subject	Economy
Strategic objective	5 - Develop all the Marine Renewable Energy sectors and their connections in the sea basin.
Relevant activities	MRE; Research and development
Indicator and target (where possible)	<p>Indicator 1: number of collaborative platform projects selected following national or European project calls (multi-use and/or shared with a commercial project platform)</p> <p>Target 1: 1 minimum</p> <p>Indicator 2: Number of organisations or businesses in the sea basin awarded a national (ADAME) and/or European (INTERREG) project</p> <p>Indicator 1: Number of shared connections</p> <p>Target 1: 1 minimum</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Economy; Research and development
Associated existing public policies	Multi-Year Energy Programme (PPE, Programmation pluriannuelle de l'énergie)
Impacts on other strategic objectives	D01- HB-07-11; D01-MT-OE01-03; D01-OM-OE02-07; D01-PC-OE05; D05-OE04; D06-OE01-02; D07-OE01-03 ; D08-OE5bis-07 ; D11-OE01-03
Avenues for operational measures	<ul style="list-style-type: none"> - Identify suitable sites for wave and tidal energy projects - Promote research into marine current power - Implement “plug and test” solutions: sharing connections will also support innovation and meet current and future real-world test requirements for medium and large power outputs, further offshore. - Launch calls for projects - Encourage projects on seawater heating and heat recovery from wastewater treatment in the area - Define the development conditions for farms to limit environmental impacts

STRATEGIC OBJECTIVE NO. 6: MARINE AGGREGATE EXTRACTION

**Maintain the strategic interest of the coastal area in material contributions to major regional and supra-regional infrastructure projects as well as the building and public works sector. Support the marine aggregate extraction sector up to the tune of 10.5 million m³ authorised annually in the area.
Anticipate future needs by assigning research permits, if necessary**

The seven concessions for the exploitation of marine aggregates of the Eastern Channel-North Sea sea basin currently meet materials requirements and contribute to coastline management.

An analysis of cumulative pressures generated by the strong interweaving of activities in the Eastern Channel-North Sea sea basin, especially led by those involved in the extraction of marine aggregates, with fishing, MREs and ports, through a Scientific Interest Group, make it possible to study opportunities to limit cumulative impacts on wildlife.

The reception of this activity in the area's ports is facilitated by the development of spaces dedicated to the installation of sites to receive marine aggregates (discharging and treatment facilities).

SPECIFIC OBJECTIVE

6A

Maintain the currently authorised extraction capacity and plan for its renewal

6B

Anticipate future needs for marine aggregates in the future by authorising research permits

Specific strategic objective	Maintain the currently authorised extraction capacity and plan for its renewal
Specific objective code	6A
Issues/subject	Economy
Strategic objective	6- Maintain the strategic interest of the sea basin in the contribution of materials to major regional and supra-regional infrastructure projects as well as the building and public works sector. Support the marine aggregate extraction sector up to 10.5 million m ³ authorised annually in the area. Anticipate future needs by assigning research permits, if necessary.
Relevant activities	Marine aggregate extraction
Indicator and target (where possible)	<i>Indicator 1:</i> Authorised volume/year <i>Target 1:</i> 10.5 million m ³ <i>Indicator 2:</i> Number of research permits <i>Target 2:</i> In line with regional quarry plans
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 3, 4 and 5
Influencing factors	Simplification of administrative procedures
Associated existing public policies	DOGGM (Documents for the sustainable development of marine aggregates)
Impacts on other strategic objectives	D01-HB-OE03-04-07-12; D01-PC-OE05; D06-OE01-02; D07-OE01-03; D08-OE5bis; D11-OE01-03
Avenues for operational measures	- Analyse existing data on the functionality of environments, sensitivity of species and composition of seabeds, and acquire new data where needed - Communicate the issues related to marine aggregate production and new marine concessions to the wider public

Specific strategic objective	Anticipate future needs for marine aggregates in the future by authorising research permits
Specific objective code	6B
Issues/subject	Economy
Strategic objective	6- Maintain the strategic interest of the sea basin in the contribution of materials to major regional and supra-regional infrastructure projects as well as the building and public works sector. Support the marine aggregate extraction sector up to 10.5 million m ³ authorised annually in the area. Anticipate future needs by assigning research permits, if necessary.
Relevant activities	Marine aggregate extraction
Indicator and target (where possible)	<i>Indicator 2:</i> Number of research permits <i>Target 2:</i> In line with regional quarry plans
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 2, 3, 4, and 5
Influencing factors	Simplification of administrative procedures Research
Associated existing public policies	DOGGM (Documents for the sustainable development of marine aggregates) Regional quarry plans
Impacts on other strategic objectives	D01-HB-OE03-04-07-12; D01-PC-OE05; D06-OE01-02; D07-OE01-03; D11-OE01-03
Avenues for operational measures	- Improve knowledge of the region's needs for marine aggregates

STRATEGIC OBJECTIVE NO. 7: MARITIME TRAFFIC AND PORT SPACES, DREDGING

Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.

As the main zone of global maritime traffic, the Eastern Channel-North Sea sea basin concentrates three major competitive seaports and is part of an efficient inter-regional coordination process. The major ports and secondary ports complement one another by axis approach (Seine Axis, North Axis, Seine-North-Europe Canal), facilitated by the development of mass transport, which reinforces the national and European axes of transport of goods in their connection to the hinterlands. The strategic positioning of ports at the international level is also promoted by the creation of a Port Single Window, facilitating the transmission of reporting formalities for ships entering or leaving EU Member States.

Modernisation of port and industrial equipment as well as innovation in the management of traffic and goods flows can optimise land space and strengthen the economic competitiveness of ports, while adapting port spaces to welcome new activities (cruisers, unloading dredged sediments and extracted marine aggregates, LNG, shipyard reconciliation) on reduced land spaces. These developments contribute to the enhancement of maritime trades and the emergence of industrial tourism.

A coordinated policy to prevent pollution from ports, in particular by the systematisation of adapted careening areas, such as the special attention devoted to the limitation and avoidance of environmental pressures related to maritime traffic (continuous noise, air quality, collisions with mammals and turtles), are major objectives for the ecological transition of port activities.

The organisation of dredging activity at the sea basin level makes it possible to maintain maritime and river accesses and to adapt them to the increasing size of vessels and to developments in port activities, while limiting impacts on marine habitats and their functionality. The emergence of value chains for dredged sediments is a major objective, participating in the economical management of the natural mineral resources of the Eastern Channel-North Sea sea basin.

SPECIFIC OBJECTIVES

7A

Create a Port Single Window to simplify the transmission of reporting formalities for vessels entering and/or leaving ports of the member States.

7B

Promote the digitisation of maritime and river logistics systems to improve and increase flows

7C

Develop river and rail transport as a means of stimulating modal shift and increasing pre- and post-shippments

7D

Facilitate the discharge of dredged sediments

7E

Support the re-use of dredged sediments through inter-port and inter-sector cooperation

7F

Mobilise port real estate to promote the creation or continuation of activities dependent on port infrastructure and rehabilitate disused port areas

7G

Implement coordinated planning and equipment policies to reduce port pollution and waste

7H

Enable vessels to refuel with alternative fuels (LNG, hydrogen, hybrid, electric) through specific infrastructure

7I

Reduce air pollutants and greenhouse gas emissions from ports and maritime traffic

Specific strategic objective	Create a Port Single Window to simplify the transmission of reporting formalities for vessels entering and/or leaving ports of the member States.
Specific objective code	7A
Issues/subject	Port access; strengthen strategic axes
Strategic objective	7- Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.
Relevant activities	Ports/Transport
Indicator and target (where possible)	Indicator 1: creation of a Port Single Window (PSW) Indicator 2: number or % of ports using the system
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 2, 3, 4 and 6
Influencing factors	Simplification of administrative procedures
Associated existing public policies	SNP (National Ports Strategy) SNML (National Strategy for the Sea and Coast)
Impacts on other strategic objectives	
Avenues for operational measures	

Specific strategic objective	Promote the digitisation of maritime and river logistics systems to improve and increase flows
Specific objective code	7B
Issues/subject	Modernisation of port areas
Strategic objective	7- Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.
Relevant activities	Ports/Transport; Maritime works
Indicator and target (where possible)	<p>Indicator 1: Port investments under CPER/CPIER (regional development contracts) for developing logistics activities and increasing flows in maritime ports</p> <p>Indicator 2: Number of ports in the area involved in the process</p> <p>Indicator 3: share of traffic travelling to or from Europe passing through ports in the sea basin</p> <p>Indicator 4: Evolution of goods traffic in ports</p>
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1 and 4 in particular, but also 1, 2, 3, 5 and 8
Influencing factors	Innovation; Port facilities
Associated existing public policies	SNP (National Ports Strategy) SNML (National Strategy for the Sea and Coast) BREXIT
Impacts on other strategic objectives	7A; 7C D01-MT-OE01-03; D01-PC-OE05; D02-02-03; D05-OE04; D08-OE01-02-3-4-5bis-7; D11-OE01-03
Avenues operational measures	

Specific strategic objective	Develop river and rail transport as a means of stimulating modal shift and increasing pre- and post-shipments
Specific objective code	7C
Issues/subject	Port access; strengthen strategic axes
Strategic objective	7- Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.
Relevant activities	Ports/Transport
Indicator and target (where possible)	Indicator 1: share of river and rail transport Target: - GPMD 36% - GPMH 25 % - GPMR 25 %
Location (Map of issues or mention of relevant areas on the vocation map)	Zones1, 2, 3, 4 and 6
Influencing factors	Innovation; Port facilities
Associated existing public policies	National Ports Strategy SNML (National Strategy for the Sea and Coast) Stratégie Nationale Bas-Carbone (National Low Carbon Strategy)
Impacts on other strategic objectives	D01-PC-OE05; D02-02-03; D05-OE01-02-03-04; D08-OE01-02-03-04-5bis-07; D09-OE02; D10-OE01; D11-OE01-03
Avenues for operational measures	- Implement intermodality through connections between ports - Improve rail and river freight services and infrastructure

Specific strategic objective	Facilitate the discharge of dredged sediments
Specific objective code	7D
Issues/subject	Circular economy
Strategic objective	7- Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.
Relevant activities	Ports/Transport; Maritime works
Indicator and target (where possible)	- Indicator 1: Volume of contaminated sediments stored on land Target 1: Stabilisation or upward trend Indicator 2: Number of ports covered by SOTOD (guidance scheme for dredging and management of sediments) Target 2: 100 % by 2025
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 2, 3, 4, 6, and 7
Influencing factors	Research and development; Port facilities
Associated existing public policies	
Impacts on other strategic objectives	7E D01-HB-OE03-04-05-07; D01-PC-OE05; D06-OE01-02; D07-OE01-03; D08-OE05
Avenues for operational measures	-SOTOD - Sharing dredging sites and development of territorial dredging plans around the area's ports

Specific strategic objective	Support the re-use of dredged sedimentsts through inter-port and inter-sector cooperation
Specific objective code	7E
Issues/subject	Circular economy
Strategic objective	7- Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.
Relevant activities	Ports/Transport; Maritime works, Research and development
Indicator and target (where possible)	Indicator 1: Share of the volume of dredged sediments re-used (2018 reference figure) Target 1: Increase in the share of dredged sediments re-used by 2025
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Research and development; Governance
Associated existing public policies	WFD
Impacts on other strategic objectives	7D D08-OE05
Avenues for operational measures	<ul style="list-style-type: none"> - SOTOD - Promote research and innovation (calls for projects) - Launch a trial on synergies between concessions/disposal of sediment at sea, through deep extraction and filling in with dredged port sediments and evaluation of the impacts - Inter-port cooperation for research into recovery and value added processes

Specific strategic objective	Mobilise port real estate to promote the creation or continuation of activities dependent on port infrastructure and rehabilitate disused port areas
Specific objective code	7F
Issues/subject	Modernisation of port areas
Strategic objective	7- Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.
Relevant activities	Ports/Transport; MRE; Maritime works; Marine aggregate extraction; Shipbuilding and nautical industries; Seafood processing and marketing
Indicator and target (where possible)	Indicator 1: Number of ongoing management plans / development plans / master plans in the area's ports Indicator 2: Share of surface area suitable for the creation of new activities in the strategic projects of the Maritime Ports (GPM) Indicator 3: Share of disused surface area in ports not rehabilitated
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1 and 4
Influencing factors	Innovation; Port facilities
Associated existing public policies	
Impacts on other strategic objectives	D01-HB-OE01-02-03-04-05-07; D01-OM-03-06-07; D01-PC-01-03-05; D06-OE01-02 D07-OE01-03; D08-OE01-04-5bis; D10-OE01; D11-OE01-03
Avenues for operational measures	- Identify port areas suitable for the creation of reception sites for marine aggregates

Specific strategic objective	Implement coordinated planning and equipment policies to reduce port pollution and waste
Specific objective code	7G
Issues/subject	Good Ecological Status
Strategic objective	7- Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.
Relevant activities	Ports/Transports; Maritime works; Tourism and leisure activities
Indicator and target (where possible)	<p>- Indicator 1: Number of careening areas complying with WFD standards in the sea basin Target 1: x careening areas complying with WFD standards in the sea basin</p> <p>Indicator 2: Number of ports with a system for waste and ballast water treatment Target 2: 100 %</p> <p>Indicator 3: Number of ports offering bilge water and waste water pumping facilities in the bunkering area</p>
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Port facilities
Associated existing public policies	National Ports Strategy SNML (National Strategy for the Sea and Coast) Stratégie Nationale Bas-Carbone (National Low Carbon Strategy)
Impacts on other strategic objectives	7H; 14A; 3D D01-HB-OE01-02-03-04-05-07 ; D01-OM-03-06-07; D01-PC-01-03-05; D02-02-03; D05-OE04; D06-OE01-02; D07-OE01-03; D08-OE01-04-5bis-07; D09-OE01; D10-OE01-02; D11-OE01-03
Avenues for operational measures	<ul style="list-style-type: none"> - Provide information on sustainable development actions in the maritime ports to change the perception that links port activity to industrial pollution - 2018 Biodiversity Plan: Action 19 Installation of plastic particle recovery filters in the waste water system in cargo ports - Specially adapted facilities onshore for the recovery and sorting of fisheries waste

Specific strategic objective	Enable vessels to refuel with alternative fuels (LNG, hydrogen, hybrid, electric) through specific infrastructure
Specific objective code	7H
Issues/subject	Modernisation of port areas
Strategic objective	7- Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.
Relevant activities	Ports/Transport: Maritime works; Research and development, Shipbuilding and nautical industries
Indicator and target (where possible)	<i>Indicator 1:</i> Number of vessels refuelled with alternative fuels <i>Target 1:</i> x <i>Indicator 2:</i> Annual LNG bunkering volume <i>Target 2:</i> x
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Innovation; Port facilities
Associated existing public policies	SNTEDD 2015-2020 (National Strategy of the Ecological Transition Towards Sustainable Development) National plan for the use of liquified natural gas as marine fuel National action framework for the development of alternative fuels in the transport sector and the deployment of relevant infrastructures
Impacts on other strategic objectives	3A D05-OE04; D08-OE07; D09-OE02
Avenues for operational measures	- Develop energy storage systems (including hydrogen)

Specific strategic objective	Reduce air pollutants and greenhouse gas emissions from ports and maritime traffic
Specific objective code	7I
Issues/subject	Modernisation of port areas; Good ecological status
Strategic objective	7- Reinforce the strategic positioning of ports in the European Range; promote port cooperation; modernise infrastructure and equipment to diversify activities while limiting environmental disturbances.
Relevant activities	Ports/Transport; Shipbuilding and nautical industries; Research and development
Indicator and target (where possible)	<p>Indicator 1: Number of vessels found not in compliance with Emission Control Areas in the English Channel and North Sea Target 1: Reduction in number of non-compliant vessels</p> <p>Indicator 2: Number of infrastructures enabling shore-to-ship electric power supply Target 2: x infrastructures</p> <p>Indicator 3: Number of ports using these infrastructures</p>
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 4 and 6
Influencing factors	Innovation; Port facilities
Associated existing public policies	
Impacts on other strategic objectives	D05-OE04; D08-OE07; D09-OE02
Avenues for operational measures	<ul style="list-style-type: none"> - Strengthen objective D08-OE07 - Encourage renewal of vessels with more efficient models - Give ports the possibility of introducing policies encouraging more environment-friendly vessels - Encourage cabotage for the transport of goods in short supply chains

STRATEGIC OBJECTIVE NO. 8: NAVAL AND NAUTICAL INDUSTRIES

Develop, support and diversify the construction, decommissioning and repair of ships and promote SMEs and ETIs structuring the territory of the coastal area.

Maintaining the production capacity of the construction sector is a major challenge for the Eastern Channel-North Sea sea basin, supported by the presence of one of the three French shipyards approved by the European Commission to dismantle the ships, in Le Havre.

By supporting small and medium-sized enterprises, and scientific and technical innovation driven by research and development, it is a question of adapting the trades and the construction, repair and dismantling sector to become a sustainable economy with short-distribution channels. The recovery of waste from ship dismantling is a strong objective in this respect.

Activities related to leisure and the tourism sector are reorganised around a model focused on service delivery and the sharing and functional economy, boosting the shipbuilding and boating industries, in order to make the best use of the marina space.

SPECIFIC OBJECTIVES

8A

Maintain production capacities by supporting the construction and marketing of vessels and innovative equipment

8B

Encourage sustainable boating that is accessible to all

8C

Promote a collaborative model of boating which takes into account the numbers of boats, as well as environmental and maritime security issues

8D

Support innovation to adapt the shipbuilding and smaller boat construction sectors

8E

Support the ship dismantling sector by recovering the waste it produces

Specific strategic objective	Maintain production capacities by supporting the construction and marketing of vessels and innovative equipment
Specific objective code	8A
Issues/subject	Economy
Strategic objective	8. Develop, support and diversify vessel construction, dismantling and repair and promote the SMEs and ETIs (intermediate size companies) structuring the sea basin.
Relevant activities	Shipbuilding and nautical industries; MRE
Indicator and target (where possible)	<p>Indicator 1: Number of ship building, repair and dismantling businesses Target 1: Increase</p> <p>Indicator 2: Number of businesses in the sea basin registered in the directories of National Defence portals Target 2: Closer links with the Normandy and Hauts-de-France Regional Poles for the Defence Economy to maintain knowledge in the sector</p>
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 4 and 6
Influencing factors	Economy
Associated existing public policies	SME Defence Pact
Impacts on other strategic objectives	3A; 7H; 11A; 13A; 13B
Avenues for operational measures	<ul style="list-style-type: none"> - Communication campaign on the aid and tools offered to SMEs and ITEs in the sea basin - Bring together companies in the vessel construction sector around thematic project calls (recreational boats oriented towards the sharing economy and product-service systems, MRE vessels, service vessels, platform construction, green ships, ship waste management (black and grey water...)etc.) - Support SME export activities - MRE maintenance vessel construction

Specific strategic objective	Encourage sustainable boating that is accessible to all
Specific objective code	8B
Issues/subject	Economy; Awareness
Strategic objective	8. Develop, support and diversify vessel construction, dismantling and repair and promote the SMEs and ETIs (intermediate size companies) structuring the sea basin.
Relevant activities	Shipbuilding and nautical industry; Tourism and leisure activities
Indicator and target (where possible)	Indicator 1: Share of boating activities in the GDP of the sea basin Indicator 2: Number of direct and indirect jobs generated by boating activities Indicator 3: Rate of participation in boating activities by age bracket
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Economy; Awareness
Associated existing public policies	SNML (National Strategy for the Sea and Coast)
Impacts on other strategic objectives	11A; 11B
Avenues for operational measures	<ul style="list-style-type: none"> - Promotion of water sports and activities - Development of school seaside field trips (Classes de mer) - Raise awareness of sustainable boating practices (equipment certification, development of free e-learning tools) - 2018 Biodiversity Plan: Action 67 Charter of good practice - Offer introduction sessions on nautical activities to primary and secondary pupils in REP and REP+ (priority education network) schools in the sea basin - Develop leisure infrastructure in areas where it is currently lacking (for example: slipways in the Calais area)

Specific strategic objective	Promote a collaborative model of boating which takes into account the numbers of boats, as well as environmental and maritime security issues
Specific objective code	8C
Issues/subject	Economy; management of port land
Strategic objective	8. Develop, support and diversify vessel construction, dismantling and repair and promote the SMEs and ETIs (intermediate size companies) structuring the sea basin.
Relevant activities	Shipbuilding and nautical industry; Ports/Transport; Tourism and leisure activities
Indicator and target (where possible)	Indicator 1: Number of ports involved in boat-sharing initiatives Target 1: Increase Indicator 2: Number of certified clean ports (European level certification process for the environmental management of marinas) Target 2: Increase
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Innovation; Governance
Associated existing public policies	SNML (National Strategy for the Sea and Coast)
Impacts on other strategic objectives	D01-HB-OE04-05-07; D01-MT-01-03; D01-OM-03-06-07; D01-PC-01-03-05; D02-02-03; D05-OE04; D06-OE01-02; D08-OE01-03-04-07; D09-OE01-02; D10-OE01-02; D11-OE01-03
Avenues for operational measures	Launch calls for projects to ship and boat building companies and marinas to develop models which help revise recreational boating practices: Boat rental between individuals, shared berths, boat exchanges, dockside rental, shared boats, co-navigation - Stimulate service provision in marinas to strengthen and enhance the capacity and quality of reception and services - Recreational boating master plan - 2018 Biodiversity Plan: Action 67 Charter of good practice

Specific strategic objective	Support innovation to adapt the ship and boat building sector
Specific objective code	8D
Issues/subject	Economy; Good ecological status
Strategic objective	8. Develop, support and diversify vessel construction, dismantling and repair and promote the SMEs and ETIs (intermediate size companies) structuring the sea basin.
Relevant activities	Shipbuilding and nautical industry; Research and development; Tourism and leisure activities
Indicator and target (where possible)	<i>Indicator 1:</i> Change in the number of patents <i>Indicator 2:</i> number of projects certified/year <i>Target:</i> Increase in number of research projects, patents and implemented projects <i>Indicator 3:</i> Expenditure on R&D by SMEs and ETIs (naval industry) in the sea basin
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Innovation
Associated existing public policies	
Impacts on other strategic objectives	
Avenues for operational measures	<ul style="list-style-type: none"> - Grant funding to winners of the “Bateau Bleu” (Nautical Industries Federation) to help bring prototypes to market - Promote the use of alternative propulsion methods (hybrid, electric, solar, wind) - Define lines of research and development priorities, with support from CORICAN (Advisory council on research and innovation for naval construction and activities): <ul style="list-style-type: none"> • - Towards the optimisation of functions (reduction of atmospheric emissions and noise and vibration; biofuels) • - Towards better management of waste, paints, coatings and anti-corrosion paints

Specific strategic objective	Support the ship dismantling sector by recovering the waste it produces
Specific objective code	8E
Issues/subject	Circular economy
Strategic objective	8. Develop, support and diversify vessel construction, dismantling and repair and promote the SMEs and ETIs (intermediate size companies) structuring the sea basin.
Relevant activities	Shipbuilding and nautical industry; Research and development
Indicator and target (where possible)	Indicator 1 (SNML): Change in the average age of registered recreational vessels Indicator 2: Number of approved dismantling businesses in the sea basin
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal zones, particularly zone 4 (ship-breaking yard)
Influencing factors	Good Ecological Status; Innovation
Associated existing public policies	
Impacts on other strategic objectives	D02-02-03; D08-OE03; D10-OE01-02
Avenues for operational measures	- Launch calls for projects for the recovery and recycling of material (creating composites) - Develop the sector and support the Le Havre dismantling yard - Promote products certified NF Environnement and EU Ecolabel

STRATEGIC OBJECTIVE NO. 9: AGRICULTURE

Maintain agricultural and pastoral activities in the coastal zone in a perspective of sustainable development and structuring of the coastal and subtidal spaces of the Channel and the North Sea

The extent and variety of agricultural areas in the Eastern Channel-North Sea contributes to maintaining the diversity of landscapes and coastal ecosystems. It is supported by a port infrastructure which facilitates exports of agricultural products.

The strong contribution of the Normandy and Hauts-de-France agricultural sector to national milk, cereal and oilseed production is maintained, as are the area's emblematic crops (flax, potatoes and industrial beetroot). These activities are evolving in order to limit disturbances to water quality (contribution of nutrients involved in eutrophication, release of contaminants).

Agriculture contributes to the maintenance of coastal environments, including salt meadows, by limiting the impact of human activity on environments (eutrophication) and by pastoral practices taking into account the maintenance or improvement of the chemical, ecological and above all the microbiological quality of marine waters.

SPECIFIC OBJECTIVES

7 Specific EO (see table)

STRATEGIC OBJECTIVE NO. 10: STATE INTERVENTION AT SEA AND ON THE COAST (SECURITY AND SAFETY)

Maintain and adapt the State's surveillance and intervention capabilities at sea to preserve the security and safety conditions of maritime and port areas.

Missions involving monitoring navigation, search and rescue at sea, assistance to ships in difficulty, the fight against pollution and neutralisation of explosive devices provided by the State directly contribute to safeguarding people and property and protecting the environment.

The implementation of means of securing maritime and port areas and operations against illegal activities (drug trafficking, illegal immigration, etc.) ensure a high level of safety in offshore, coastal and port areas and help to strengthen the competitive positioning of the ports on the coastline.

Monitoring and control of activities likely to impact marine ecosystems and fisheries policing missions ensure compliance by marine users with rules that protect the marine environment and that govern the exploitation and use of marine resources.

SPECIFIC OBJECTIVES

10A

Boost bathymetric knowledge for safer shipping and port access

10B

Adapt sea and coastal surveillance tools and systems to new technologies and the digital transition

Specific strategic objective	Boost bathymetric knowledge for safer shipping and port access
Specific objective code	10A
Issues/subject	Risks; Knowledge
Strategic objective	10 - Maintain and adapt the State's surveillance and intervention capabilities at sea to safeguard the security and safety conditions of maritime and port areas.
Relevant activities	Ports/Transport; State Action at Sea
Indicator and target (where possible)	Indicator 1: Unsurveyed areas of the sea basin or areas where hydrographic data pre-dates 1945 Target 1: Research plan on data harmonisation launched by 2030
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	R&D;
Associated existing public policies	
Impacts on other strategic objectives	D01-MT-01-03; D02-02-03; D08-OE02-03-04-5bis-07;D11-OE01-03
Avenues for operational measures	

Specific strategic objective	Adapt sea and coastal surveillance tools and systems to new technologies and the digital transition
Specific objective code	10B
Issues/subject	Risks; Innovation
Strategic objective	10 - Maintain and adapt the State's surveillance and intervention capabilities at sea to safeguard the security and safety conditions of maritime and port areas.
Relevant activities	Ports/Transport; State Action at Sea
Indicator and target (where possible)	Indicator 1: Average age of the air-maritime fleet Indicator 2: Detection and identification range of the system's surface vectors Target 1: Integration of real-time detection by surveillance aircraft and surface vessels in surface situation analysis systems (such as Spationav) Target 2: Interface situation analysis systems with maritime databases.
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Innovation; R&D
Associated existing public policies	
Impacts on other strategic objectives	D01-MT-01-03; D02-02-03; D08-OE02-03-04-5bis-07; D11-OE01-03
Avenues for operational measures	

STRATEGIC OBJECTIVE NO. 11: TOURISM AND MARITIME AND COASTAL LEISURE

Preserve the environmental assets and remarkable sites, of the coastal area that influence the Channel and the North Sea tourists. Promote coastal and nautical recreational activities based on knowledge of the sea and the discovery of the environments.

With 60 classified and 36 listed sites, including several sites with a global status, the Eastern Channel-North Sea basin extends from Mont-Saint-Michel to the Dunes of Flanders, encompassing the Deux Caps Grand Site. It owes its attractiveness to tourists to its natural characteristics; increasing tourist traffic then assumes a certain number of amenities.

Protecting areas with significant environmental and preservation challenges, or, depending on the sector, reclaiming the quality of coastal waters, are necessary conditions to support and strengthen a varied tourism offer (cruises, outdoor sports, swimming, yachting, recreational fishing).

Sharing a common maritime culture enables public awareness (health and safety standards, eco-responsible behavior, etc.) and the development of sustainable tourism practices. The evolution of the organisation of activities related to sailing and boating diversifies the tourism and leisure offer and reinforces initiatives such as “Clean Ports” and “Blue Flag”, while also raising awareness amongst boaters.

SPECIFIC OBJECTIVES

11A

Strengthen the “Clean Ports” initiative in marinas to spread good practices

11B

Raise awareness on maritime security and environmental protection among tourists and boaters

11C

Promote the development of dedicated areas for cruise lines by strengthening town/port synergies on the coast

11D

Develop accessible territorial tourism centres that offer a wide range of activities

Specific strategic objective	Strengthen the “Clean Ports” initiative in marinas to spread good practices
Specific objective code	11A
Issues/subject	Awareness raising; Good ecological status
Strategic objective	11. Preserve the sea basin’s environmental assets and remarkable sites, which are prerequisites for attracting tourists to the Channel and North Sea area. Promote coastal and nautical recreational activities based on knowledge of the sea and the discovery of environments.
Relevant activities	Tourism and leisure activities; Shipbuilding and nautical industries; Ports/Transport
Indicator and target (where possible)	Indicator 1: Number of ports involved in the “Clean Ports” initiative under European agreement CWA16987 Target 1: Increase in the number of “Clean Port” certifications
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Communication; Labelling
Associated existing public policies	
Impacts on other strategic objectives	11B; 14A D01-HB-OE01-02-04-05-07 ; D01-MT-01-03; D01-OM-03-06-07; D01-PC-01-03-05; D02-02-03; D06-OE01-02; D08-OE01-02-03-04-5bis-07; D09-OE01-02; D10-OE01-02; D11-OE01-03
Avenues for operational measures	- Objectives and commitments charter for the sustainable development of marinas ² - Recreational boating master plan - Target of “zero chemical waste” in marinas

Specific strategic objective	Raise awareness on maritime security and environmental protection among tourists and boaters
Specific objective code	11B
Issues/subject	Awareness raising; Risks
Strategic objective	11. Preserve the sea basin's environmental assets and remarkable sites, which are prerequisites for attracting tourists to the Channel and North Sea area. Promote coastal and nautical recreational activities based on knowledge of the sea and the discovery of environments.
Relevant activities	Tourism and leisure activities; Knowledge; Public defence and intervention at sea
Indicator and target (where possible)	Target 1: Identification of events and demonstrations (festivals, special days, school field trips) related to maritime and coastal environmental issues held in municipalities in the sea basin Indicator 1: Number of sea rescue operations (CROSS) involving recreational boats
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Change in professional practices; communication
Associated existing public policies	
Impacts on other strategic objectives	D01-HB-01-02-04-05-07; D01-MT-01-03; D01-OM-03-06-07; D01-PC-01-03-05; D03-OE03; D04-OE01; D06-OE01-02; D07-OE05; D08-OE01-02-03-04-5bis-07; D09-OE01-02; D10-OE01-02; D11-OE01-03
Avenues for operational measures	<ul style="list-style-type: none"> - Awareness raising on the prevention of safety risks at sea, within the context of changes in recreational boating practices (sharing economy, etc) - Develop a tourism and boating good practice guide - Financial support to environmental protection associations for awareness raising actions aimed at tourists and boaters - Develop training courses and awareness raising measures, such as the “Educmer” and “Educational managed marine areas”³ in schools and recreation centres

³Awareness raising projects by the Picardy Estuary and the Opal Sea Marine Nature Park, aimed at children and water sports enthusiasts.

Specific strategic objective	Promote the development of dedicated areas for cruise lines by strengthening town/port synergies on the coast
Specific objective code	11C
Issues/subject	Development of port areas; Economy
Strategic objective	11. Preserve the sea basin's environmental assets and remarkable sites, which are prerequisites for attracting tourists to the Channel and North Sea area. Promote coastal and nautical recreational activities based on knowledge of the sea and the discovery of environments.
Relevant activities	Tourism and leisure activities; Ports/Transport; Maritime works
Indicator and target (where possible)	<i>Indicator 1:</i> Number of berths able to receive cruise ships <i>Target 1:</i> x berths able to receive cruise ships <i>Indicator 2:</i> Number of cruise passengers received in the sea basin <i>Target 2:</i> - for Haropa by 2030; 1M sea cruise and cross Channel passengers; 10 million river cruise passengers
Location (Map of issues or mention of relevant areas on the vocation map)	Zones 1, 3, 4 and 6
Influencing factors	Development of port areas; town/port/inland synergies; provision of eco-responsible services; sustainable tourism ⁴
Associated existing public policies	
Impacts on other strategic objectives	11D; 13A; 7C; D01-HB-OE01-02-03-04-05-07; D01-MT-01-03; D01-OM-03-06-07; D01-PC-OE05; D02-02-03; D05-OE04; D06-OE01-02; D07-OE01-03; D08-OE01-02-03-04-5bis-07; D10-OE01-02; D11-OE01-03
Avenues for operational measures	- Establish dedicated commissions in the management councils of ports that receive cruise ships - Transform existing buildings and/or reduce as far as possible the artificialisation of new maritime areas - Use local transport networks / shuttles from ports to town centres or tourist attractions (+ look at trials of autonomous vehicles in Le Havre)

Specific strategic objective	Develop accessible territorial tourism centres that offer a wide range of activities
Specific objective code	11D
Issues/subject	Economy
Strategic objective	11. Preserve the sea basin's environmental assets and remarkable sites, which are prerequisites for attracting tourists to the Channel and North Sea area. Promote coastal and nautical recreational activities based on knowledge of the sea and the discovery of environments.
Relevant activities	Tourism and leisure activities, aquaculture, fishing
Indicator and target (where possible)	<p>Target 1: Identify tourism stakeholders in the sea basin offering multiple activities by 2021 in order to define the programmes of measures</p> <p>Indicator 1: The sea basin's coastal and inland tourist carrying capacity</p> <p>Target 2: By 2025 identify at least 2 priority centres for tourism (in Normandy and Hauts-de-France) with:</p> <ol style="list-style-type: none"> 1. Tourism focused on landscapes and natural sites (promoting environmental education) 2. Cultural activities 3. Maritime, port and industrial heritage 4. Outdoor and water sports 5. The coast and inland areas 6. Economic activities (industrial, fisheries, aquaculture...)
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Planning: dialogue with the sector
Associated existing public policies	
Impacts on other strategic objectives	11B; 13A; 13C; 14A
Avenues for operational measures	<ul style="list-style-type: none"> - Instrument for representing stakeholders in the sea basin committed to an eco-responsible approach and/or in the development of multi-activity tourism - Support ecotourism initiatives, through the network of Tourism and Territories departmental agencies - Promotion and discovery of sea trades (fisheries, aquaculture...) - Promote and guarantee exemplary and reversible use of the Maritime Public Domain that respects the principal of free access and with an approach that conserves coastal ecosystems - Continue to implement the pedestrian right of way along the coast and develop coastal paths, taking into account the evolution of the coastline

STRATEGIC OBJECTIVE NO. 12: RESEARCH, INNOVATION, TRAINING

Reinforce the structuring by hub of professional and higher training offerings, innovation and knowledge dissemination capacities within the coastal area.

The Eastern Channel-North Sea sea basin continues its commitment to boost local employment areas through a training offer dedicated to maritime and coastal activities. The objective is to respond to new challenges related to the coastal and marine trades by adapting the training offer, structured around the maritime professions cluster, based in Cherbourg, and maritime training centres (high schools, ENSM, etc.).

Transdisciplinary contributions, links between sea trades within training courses reinforce vocational guidance towards multi-activity and facilitate the resumption of studies as well as retraining and increasing qualification levels. Apprenticeships and sandwich courses are encouraged, making access to employment easier and more attractive.

The creation of specific training courses around new activities (Liquefied Natural Gas, wind power, etc.) allows the evolution of professional practices in line with the Ecological and Solidarity Transition.

The strengthening of the national competitiveness cluster Aquimer and specialised research laboratories (Intechmer, ULCER, French Regional Centre for Fisheries, Aquaculture and Fish Farming, etc.) leads to the creation of inter-university thematic groups (genetic selection of fish stocks, strengthening of studies on pressures and impacts, monitoring of environments, species and marine economic activities, etc.) enabling activities to be adapted to the effects of climate change. The French Research Institution for the Exploitation of the Sea (IFREMER) contributes to the improvement of knowledge on the activities and the marine environment.

Groupings of scientific interest driven by industrial sectors (MRE, aggregates, ports, commercial fishing, etc.) promote the development of a blue economy, adapted to the spaces and respectful of the sea basin's resources. Empirical knowledge is mobilised if necessary.

SPECIFIC OBJECTIVES

12A

Adapt existing maritime training provision to needs in the sea basin and build bridges between training streams

12B

Increase qualification levels in maritime and coastal professions

12C

Develop new training opportunities to address issues of the ecological transition on the sea and coast

12D

Provide support for public and private research on marine and coastal activities and environments

12E

Bring together, organise and disseminate knowledge

12F

Exploit knowledge on marine environment monitoring to the benefit of the health and zoosanitary quality of seafood products.

12G

Support the structuring of the ecological engineering and blue technology sectors.

Specific strategic objective	Adapt existing maritime training provision to needs in the sea basin and build bridges between training streams
Specific objective code	12A
Issues/subject	Training and employment
Strategic objective	12 - Strengthen the structuring into specialist centres (pôles) the provision of vocational and higher training provision, innovation skills and knowledge dissemination capacities in the sea basin.
Relevant activities	Processing and marketing of seafood products; Training; Commercial fishing; Marine aquaculture; MRE; Ports/Transport; Shipbuilding and nautical industries
Indicator and target (where possible)	<p>- Indicator 1: Share of maritime training pupils and students in apprenticeships or work-study programmes in the sea basin (initial training)</p> <p>Indicator 2: Number of students in continuing education on maritime and coastal professions in the sea basin</p> <p>Target 1: Increase in the number of maritime training courses offering apprenticeships or work-study programmes in the sea basin by 2031</p> <p>Target 2: Increase in the number of students in continuing education on maritime and coastal professions in the sea basin by 2031</p> <p>Indicator 3: Change in the FTE offer by maritime economic sector (change in the number of job offers 2010-2018 in the sea basin)</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Training
Associated existing public policies	SNML (National Strategy for the Sea and Coast)
Impacts on other strategic objectives	12B; 13A; 13B
Avenues for operational measures	<p>- Build bridges between sailors and boatmen through the harmonisation of diplomas and training</p> <p>- Facilitate a return to study for all age groups</p> <p>- Encourage multi activity orientated training</p> <p>- In line with CESE (Economic, Social and Environmental Council) recommendations, carry out a study on “Fisheries and fish farming” training courses and develop continued education in CFPPA and CFPMT centres</p> <p>- Establish further training in issuing structures who ensure the follow on</p> <p>- Establish specific support to assist the reconversion needs of sea fishermen</p> <p>- By 2025 establish common core-training programmes for establishments in the sea basin, enabling shifts between sectors (implemented by 2031), with the support of Campuses for Trades and Skills</p> <p>Regarding the training requirements by training branch:</p> <ul style="list-style-type: none"> • Training in business management and engineering; creation of a fishing reconversion programme • Development of work-linked training and financing of vocational training for seafood gathering • Training for middle management, business, entrepreneurial and technical skills; engineers and organic agronomists for aquaculture • Strengthening training for shipbuilding and nautical industries <p>- Review the governance of training courses and their coordination</p>

Specific strategic objective	Increase qualification levels in maritime and coastal professions
Specific objective code	12B
Issues/subject	Training and employment
Strategic objective	12 - Strengthen the structuring into specialist centres (pôles) the provision of vocational and higher training provision, innovation skills and knowledge dissemination capacities in the sea basin.
Relevant activities	Maritime training; Commercial fishing; Aquaculture; Processing and marketing of seafood products; Ports/Transport; Tourism and leisure activities; Shipbuilding and nautical industries
Indicator and target (where possible)	<i>Indicator 1:</i> Average skill level by sector <i>Target 1:</i> Increase by 2025 <i>Indicator 2:</i> Number of persons committed to returning to study <i>Target 2:</i> Increase by 2030
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Training; Awareness raising; Economy
Associated existing public policies	SNML (National Strategy for the Sea and Coast)
Impacts on other strategic objectives	12A; 13B
Avenues for operational measures	- Increase in skill levels in tourism (ending seasonal work?) - Encourage continuation of study through bridges, validation of prior experience, etc. - Raise awareness and communicate on the provision of training in maritime and coastal trades

Specific strategic objective	Develop new training opportunities to address issues of the ecological transition on the sea and coast
Specific objective code	12C
Issues/subject	Training and employment
Strategic objective	12 - Strengthen the structuring into specialist centres (pôles) the provision of vocational and higher training provision, innovation skills and knowledge dissemination capacities in the sea basin.
Relevant activities	Maritime training; Tourism and leisure activities; shipbuilding and nautical industries; MRE; Extraction of materials; Marine aquaculture; Processing and marketing of seafood products
Indicator and target (where possible)	<p>Indicator 1: Total number of pupils and students in maritime training programmes in the Eastern Channel-North Sea basin Target 1: Increase by 2025</p> <p>Indicator 2: Number of scientists and teachers in the sea basin specialising in: - MRE technologies - naval construction, ship dismantling and technical innovations - enhancing the value of sites and natural landscapes (ecotourism) - marine and coastal ecological engineering Target 2: For each targeted axe establish, by 2025, specific vocational training branches</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Training
Associated existing public policies	SNML (National Strategy for the Sea and Coast)
Impacts on other strategic objectives	5C; 5D; 8A; 8D; 8E; 13B; 13D
Avenues for operational measures	<ul style="list-style-type: none"> - Support development of maritime, ecological engineering, MRE, and biotechnology branches via the Campuses for Trades and Skills in Normandy - Maintain and develop shellfish production and economic and ecological ecosystems - Support the Opal Coast University centre for training and research on the environment and marine and coastal environments - 2018 Biodiversity Plan: Action 76 professional and training establishment education plan and networking

Specific strategic objective	Provide support for public and private research on marine and coastal activities and environments
Specific objective code	12D
Issues/subject	Research and development; Knowledge
Strategic objective	12 - Strengthen the structuring into specialist centres (pôles) the provision of vocational and higher training provision, innovation skills and knowledge dissemination capacities in the sea basin.
Relevant activities	Marine aggregate extraction; MRE; Maritime works; Ports/Transport; Fisheries; Aquaculture; Shipbuilding and nautical industries; Seafood processing and marketing; Research and development
Indicator and target (where possible)	<p>Indicator 1: Number of public and private research laboratories in the sea basin specialising in research on marine ecosystems and maritime activities</p> <p>Indicator 1a: Number of scientific publications on the Eastern Channel-North Sea sea basin</p> <p>Indicator 2: Development of the research effort by Normandy and Hauts-de-France businesses and authorities in % GDP</p> <p>Indicator 3: Nature of activity sectors in the sea basin invested in the project to develop a “cumulative effects” GIS</p> <p>Target 3: Investment by MRE, commercial fisheries; maritime ports and marine aggregates extraction sectors in a “cumulative effects” GIS</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Research and development; Training; MRE, Extraction of materials; Processing and marketing of seafood products; Commercial fisheries; Aquaculture; Maritime works; Ports/Transport; Shipbuilding and nautical industries
Associated existing public policies	SNML (National Strategy for the Sea and Coast)
Impacts on other strategic objectives	6A; 7E; 4A; 4C; 5D; 7G; 7I D03-OE01-02-03 ; D04-OE01; D06-OE01-02; D11-OE01-03
Avenues for operational measures	<p>Prioritise the financing of public and private research projects in the sea basin on the following subjects:</p> <ul style="list-style-type: none"> - Cumulative effects of human activity at sea on the environment and species - Co-existence of activities and synergies between users of the sea - Treatment of port waste and shipbuilding - Quality and composition of dredged sediments; physical and chemical monitoring of disposal sites at sea - Marine Renewable Energy - Definition of the extractive potential of marine aggregates; research on extraction techniques <ul style="list-style-type: none"> - Effects of climate change on species (changes in stocks, genetic selection etc.); species recolonisation conditions in the areas affected by human activity - Green and blue biotechnologies - Coastline (coastal flooding and erosion) - Maintain and develop shellfish production and economic and ecological ecosystems

Specific strategic objective	Bring together, organise and disseminate knowledge
Specific objective code	12E
Issues/subject	Knowledge
Strategic objective	12 - Strengthen the structuring into specialist centres (pôles) the provision of vocational and higher training provision, innovation skills and knowledge dissemination capacities in the sea basin.
Relevant activities	Commercial fishing; Aquaculture; MRE; Tourism and leisure activities; Shipbuilding and nautical industries; Industry; Ports/Transport; Research and development; Extraction of materials; Maritime works; Knowledge
Indicator and target (where possible)	<p>Target 1: By 2021, review knowledge accessible online about:</p> <ul style="list-style-type: none"> - Socio-economic activities and changes in the sea basin - Marine and coastal environments and species living in the sea basin <p>Target 2: Development of a database by 2021</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Research and development; Governance
Associated existing public policies	SNML (National Strategy for the Sea and Coast)
Impacts on other strategic objectives	13A; 12F; 13D; 15A; 4C
Avenues for operational measures	<ul style="list-style-type: none"> - Designation of a reference university centre and/or a scientific centre for the dissemination and organisation of knowledge on the sea and coast - Facilitate and encourage the anonymisation of data relating to maritime economic activities for greater information sharing - Enhance and systematise the dissemination of monitoring studies in order to improve consideration of existing systems by project carriers <p>ARB (Regional Biodiversity Agency) action?</p> <ul style="list-style-type: none"> - 2018 Biodiversity Plan: Actions 70 to 75 + 77 = 79 developing research and knowledge on biodiversity - Acquire and disseminate knowledge which enables sustainable management of regional stocks / D3-OE02

Specific strategic objective	Exploit knowledge on marine environment monitoring to the benefit of the health and zoosanitary quality of seafood products
Specific objective code	12F
Issues/subject	Health risks
Strategic objective	12 - Strengthen the structuring into specialist centres (pôles) the provision of vocational and higher training provision, innovation skills and knowledge dissemination capacities in the sea basin.
Relevant activities	Research and development; training; Processing and marketing of seafood products; Commercial fishing; Aquaculture
Indicator and target (where possible)	Indicator 1: MSFD and WFD monitoring programmes data Target 1: Develop an analysis of data that is useful for the prevention of risks to the health quality of seafood products by 2025
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Research and development
Associated existing public policies	
Impacts on other strategic objectives	3B; 3C; 4C D03-OE01-02-03; D09-OE01-02-03
Avenues for operational measures	Consistent with measure M242-NAT1a (PAMM - Marine Environment Action Plan) - Disseminate knowledge that is useful for professionals - Develop a shellfish observation network - Take into account the cocktail effect (combination of different molecules)

Specific strategic objective	Support the structuring of the ecological engineering and blue technology sectors.
Specific objective code	12G
Issues/subject	Economy
Strategic objective	12 - Strengthen the structuring into specialist centres (pôles) the provision of vocational and higher training provision, innovation skills and knowledge dissemination capacities in the sea basin.
Relevant activities	MRE; Research and development
Indicator and target (where possible)	<p>Indicator 1: Number of businesses in the sea basin proposing ecodesign techniques for developments and ecological restoration</p> <p>Indicator 2: Number of businesses in the sea basin that convert biomass through biotechnology</p> <p>Indicator 3: Change in the number of French patents filed</p> <p>Indicator 4: Amount of training provided on these subjects in each area / or number of students of professionals trained in these programmes</p> <p>Target1: Public-private partnerships established by 2030</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Economy; Research and development
Associated existing public policies	
Impacts on other strategic objectives	
Avenues for operational measures	

STRATEGIC OBJECTIVE NO. 13: MARITIME AND COASTAL HERITAGE

Raise awareness of the maritime, cultural, industrial and natural heritage of the Eastern Channel-North Sea sea basin

Rich in a strong historical heritage, both tangible and intangible, the Eastern Channel-North Sea sea basin enhances the maritime and coastal wealth of its territories to bring out a true shared culture of the sea. Historical activities such as fishing have made their mark on the seascape and continue to shape coastal territories.

The renewed recognition of maritime professions and the improvement of working conditions contribute to the attractiveness of maritime employment. The modernisation and development of industrial and port spaces encourage the recognition of the coastal area's industrial heritage.

The development of major nautical and maritime events, such as the setting up of information and awareness campaigns around the issue of energy or limiting pollution in port areas, promote awareness of environmental and environmental issues related to the sea and coastline.

Enhancement of the maritime and coastal natural heritage and its presentation, especially to the general public and the younger generations, provide a better understanding of its value, the ecological features it brings and its cultural significance.

SPECIFIC OBJECTIVES

13A

Improve recognition of the rich heritage, with its extensive maritime and coastal activities and trades

13B

Promote maritime employment in the Eastern Channel - North Sea basin by increasing its attractiveness

13C

Organise and support major maritime events in the sea basin

13D

Inform the wider public about issues related to energy production and the introduction of Marine Renewable Energy

Specific strategic objective	Improve recognition of the rich heritage, with its extensive maritime and coastal activities and trades
Specific objective code	13A
Issues/subject	Awareness raising; Training and employment
Strategic objective	13. Raise awareness of the maritime, cultural, industrial and natural heritage of the Eastern Channel-North Sea basin
Relevant activities	Commercial fishing; Aquaculture; Naval and nautical industries; Ports/Transport Tourism and leisure activities; Extraction of materials
Indicator and target (where possible)	<p>Indicator 1: Number of certifications of natural and heritage sites (UNESCO, Grands Sites, etc.) between 2018 and 2025 Target 1: Increase</p> <p>Indicator 2: Number of maritime museums in the sea basin</p> <p>Indicator 3: Bibliometric measurement of maritime heritage in Normandy and Hauts-de-France (books, scientific articles, academic papers) in the fields of tourism, enhancement of heritage, cultural development etc.</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Social and cultural issues; Knowledge
Associated existing public policies	
Impacts on other strategic objectives	3B; 3C; 4C; 7F; 7G; 8A; 8E; 6A
Avenues for operational measures	<ul style="list-style-type: none"> - Online availability of bibliometrics - Support professional associations of sea trades to work with secondary schools and higher education establishments in the sea basin - Run a digital communication campaign which highlights the role of fishermen, seafood gatherers and aquaculture operators in environmental protection - Produce an information booklet explaining marine aggregates (rules, impacts, needs, use, etc.) - Develop a network of museums of the sea and coast

Specific strategic objective	Promote maritime employment in the Eastern Channel - North Sea basin by increasing its attractiveness
Specific objective code	13B
Issues/subject	Training and employment; Economy
Strategic objective	13. Raise awareness of the maritime, cultural, industrial and natural heritage of the Eastern Channel-North Sea basin
Relevant activities	Commercial fishing; Aquaculture; Shipbuilding and nautical industries; Ports/Transport; Tourism and leisure activities; Extraction of materials; Research and development; Training
Indicator and target (where possible)	Indicator 1: Change in the number of pupils and students following maritime and coastal training programmes per sector (2010-2018) Target 1: x students Indicator 2: Employment per sector (number of sailors, average age of sailors, contraction of the sector) Target 2: x% of employment not in decline
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Economy; Social and cultural issues
Associated existing public policies	
Impacts on other strategic objectives	13A; 8A; 12A; 12B
Avenues for operational measures	<ul style="list-style-type: none"> - Put out a call for tender for the construction of social housing for workers in the aquaculture sector on the coast - Advance safety (standards and equipment) in maritime professions through training and changes in working practices - Encourage seasonal work in aquaculture by making terms of employment more secure

Specific strategic objective	Organise and support major maritime events in the sea basin
Specific objective code	13C
Issues/subject	Awareness
Strategic objective	13. Raise awareness of the maritime, cultural, industrial and natural heritage of the Eastern Channel-North Sea basin
Relevant activities	Tourism and leisure activities; Shipbuilding and nautical industries; Knowledge
Indicator and target (where possible)	<p>Indicator 1: Number of maritime events (festivals, nautical events, boating and seaside events) (reference: Eastern Channel-North Sea 2018)</p> <p>Indicator 2: Attendance (average number of persons attending per event) (reference: Eastern Channel-North Sea 2018)</p> <p>Indicator 3: Number of coastal municipalities hosting a maritime event</p>
Location (Map of issues or mention of relevant areas on the vocation map)	All areas
Influencing factors	Social and cultural issues; Knowledge
Associated existing public policies	
Impacts on other strategic objectives	11B D01-MT-01; D01-OM-03-06-07; D08-OE01; D09-OE01 ; D10-OE01 ; D11-OE01-03
Avenues for operational measures	

Specific strategic objective	Inform the wider public about issues related to energy production and the introduction of Marine Renewable Energy
Specific objective code	13D
Issues/subject	Awareness raising; Knowledge
Strategic objective	13. Raise awareness of the maritime, cultural, industrial and natural heritage of the Eastern Channel-North Sea basin
Relevant activities	MRE; Knowledge
Indicator and target (where possible)	Target 1: Review of available knowledge Indicator 1: Number of booklets printed / number of visitors to the digital communication campaign
Location (Map of issues or mention of relevant areas on the vocation map)	All areas except 7 and 5
Influencing factors	Good ecological status; Social and cultural issues
Associated existing public policies	
Impacts on other strategic objectives	5A; 5B; 5C; 5D; 12E; 13B
Avenues for operational measures	- Run a digital communication campaign - Draw up an information booklet on the French energy mix in the sea basin and MRE farm projects at sea and on land

STRATEGIC OBJECTIVE NO. 14: LAND-BASED POLLUTION

Prevent land-based pollution impacting water quality and marine and coastal ecosystems

The presence and discharge (from waterways or the atmosphere) of contaminants and pollutants (microbiological, mineral and chemical) of terrestrial origin have a strong impact on marine and coastal ecosystems and food webs; they can lead to significant health risks for both people and economic activities. The environmental objectives and restoration of the quality of the marine environment are articulated with the SDAGE's objectives of good water quality.

The creation of a plan to fight against pollution, providing for a reduction at the source of plastic waste, especially those related to food packaging, contributes to the restoration of the good environmental status of habitats.

SPECIFIC OBJECTIVE

12 Specific EO (see table)

STRATEGIC OBJECTIVE NO. 15: MANAGEMENT OF THE COAST AND ITS ARTIFICIALISATION, PREVENTION OF NATURAL HAZARDS

Define, in application of the National Strategy for Coastline Management, a concerted strategy or strategies at the right scale, of natural risk management in the Eastern Channel-North Sea and master artificialisation of land in the coastal area.

The functional contributions of the coastal margin to the entire marine ecosystem are fundamental; integrated margin management therefore calls for engineering and environmental engineering.

Faced with the natural risk present in the Eastern Channel-North Sea, first a strategy or strategies must be defined to manage the coastline and the risks of submersion at the right scale, concerted between the actors, which can strengthen or, if necessary, reposition coastal activities and goods over the long term. This networking encourages the sharing of feedback on the coastline and nurtures national experiences and those of neighbouring countries. Solidarity is mobilised between the coastal zones and inland coastal areas.

Urban planning, development, economic activities such as coastal agriculture, aquaculture and tourism adapt to limit the artificialisation of the coastline and disturbances to species and environments.

SPECIFIC OBJECTIVE

15A

Define a coastline management strategy and organise the repositioning of everyday activities in 20, 40 and 60 years

15B

Take into consideration sea level rise and coastline mobility in plans, programmes, schemes and projects

Specific strategic objective	Define a coastline management strategy and organise the repositioning of everyday activities in 20, 40 and 60 years
Specific objective code	15A
Issues/subject	Risks
Strategic objective	15 - Define, in application of the National Strategy for Coastline Management, a concerted strategy or strategies at the right scale, of natural risk management in the Eastern Channel-North Sea and control artificialisation of land in the sea basin.
Relevant activities	Aquaculture; Ports/Transport; Tourism and Leisure activities; Artificialisation of the coast
Indicator and target (where possible)	<p>Indicator 1: Number of housing units in low-lying coastal areas exposed to risks of coastal flooding (Reference Eastern Channel-North Sea): 408 486.9)</p> <p>Indicator 1a: Area covered by economic activities in low-lying coastal areas exposed to risks of coastal flooding</p> <p>Indicator 2: Number of sites monitored as part of the Adapto programme (flexible coastline management) (Eastern Channel-North Sea: 3)</p> <p>Indicator 3: % of the coastline exposed to risks of coastal erosion (out of 37.6% of the Eastern Channel-North Sea coastline)</p> <p>Indicator 4: Amount of the coastline exposed to risks covered by a prevention plan (PPRI, PPRL)</p> <p>Indicator 5 (SNML): Number of technical innovations for coastal management financed</p> <p>Target 5: Increase in the number of studies carried out</p>
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Governance; Risk culture
Associated existing public policies	National coastline management strategy National strategy for the ecological transition
Impacts on other strategic objectives	6A-B; 7D-E-F D01-HB-01-02-03-04-05-07; D05-OE01-02-03-04; D06-OE01-02; D07-OE01-03-04-05; D08-OE01-5bis-06; D09-OE01-02-03; D10-OE01; D11-OE01-03
Avenues for operational measures	<ul style="list-style-type: none"> - Preparation of a forward planning document for the sea basin, taking into account activities requiring sea access - Set up a study on seabeds situated near the coast (for example, Flanders Banks) - Establish a network of stakeholders responsible for coastline management

	<ul style="list-style-type: none">- 2018 Biodiversity Plan: Action 10 Control land artificialisation by municipalities; Action 48 Erosion and soil compaction- Use knowledge about hydro-sedimentary cells and water bodies to improve natural risk prevention linked to climate change- Facilitate flexible coastline management (flood basins, wetlands, dune systems, etc)- Identify economic activities most affected by coastal risks- Develop an operational plan for restoring biodiversity in the coastal strip- Maritime component in coastal SCoTs and/or other plans/strategies
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Specific strategic objective	Take into consideration sea level rise and coastline mobility in plans, programmes, schemes or projects
Specific objective code	15B
Issues/subject	Risks
Strategic objective	15 - Define, in application of the National Strategy for Coastline Management, a concerted strategy or strategies at the right scale, of natural risk management in the Eastern Channel-North Sea and control artificialisation of land in the sea basin.
Relevant activities	Aquaculture; Ports/Transport; Tourism and Leisure activities; Artificialisation of the coast
Indicator and target (where possible)	<i>Indicator 1:</i> Number of plans, programmes, schemes and projects taking into consideration sea level rise and coastline mobility
Location (Map of issues or mention of relevant areas on the vocation map)	Coastal areas
Influencing factors	Governance; Risk culture
Associated existing public policies	National coastline management strategy National strategy for the ecological transition
Impacts on other strategic objectives	6A-B; 7D-E-F D05-OE01-02-03-04; D06-OE01-02; D07-OE01-04-05; D08-OE01-5bis-06; D09-OE01-02; D10-OE01; D11-OE01-03
Avenues for operational measures	- Formulate hypotheses and their impacts with respect to sea level rise and coastline mobility following the expiry of the plan, programme, scheme or the expected end of life of coastal structures