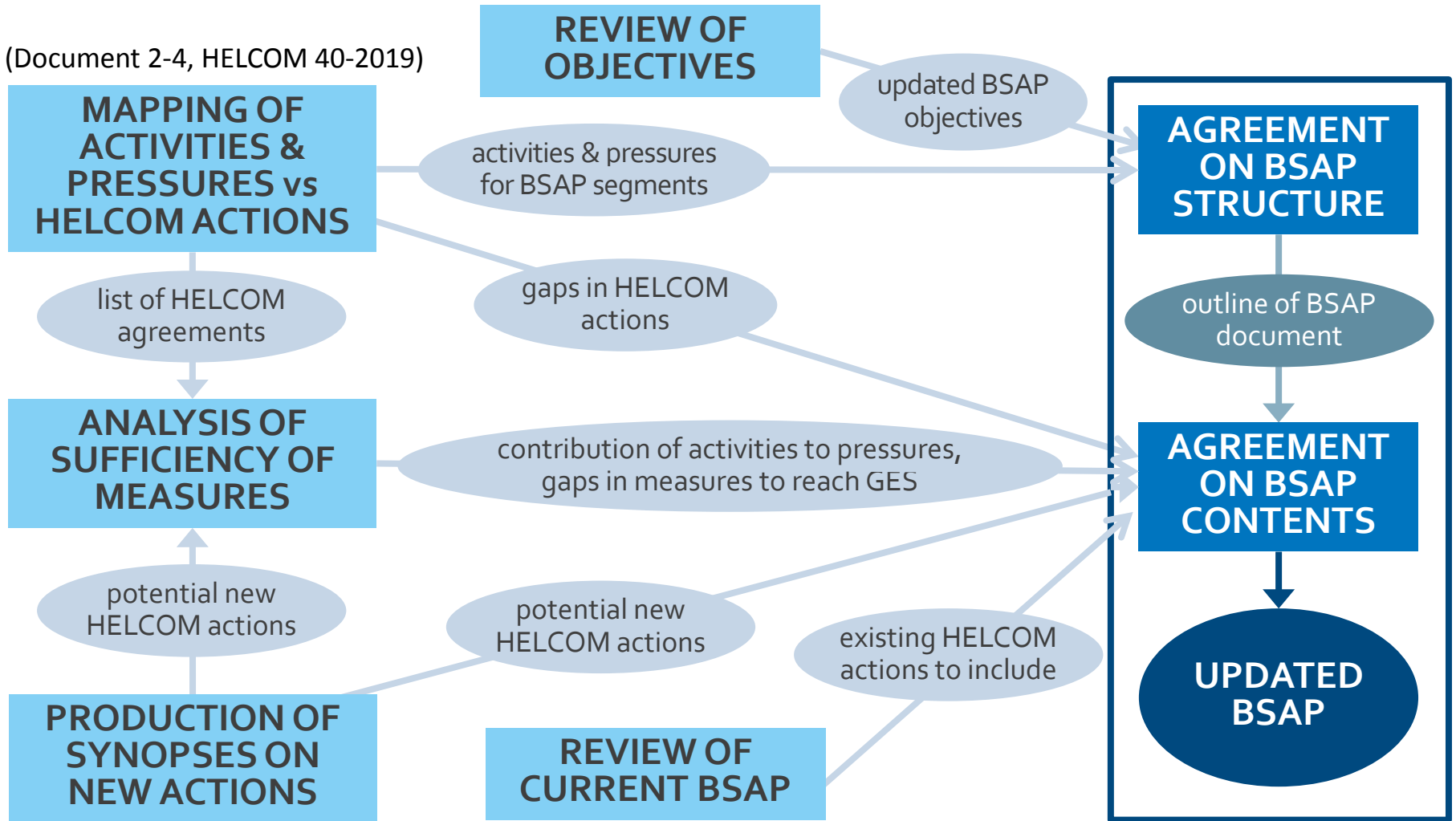
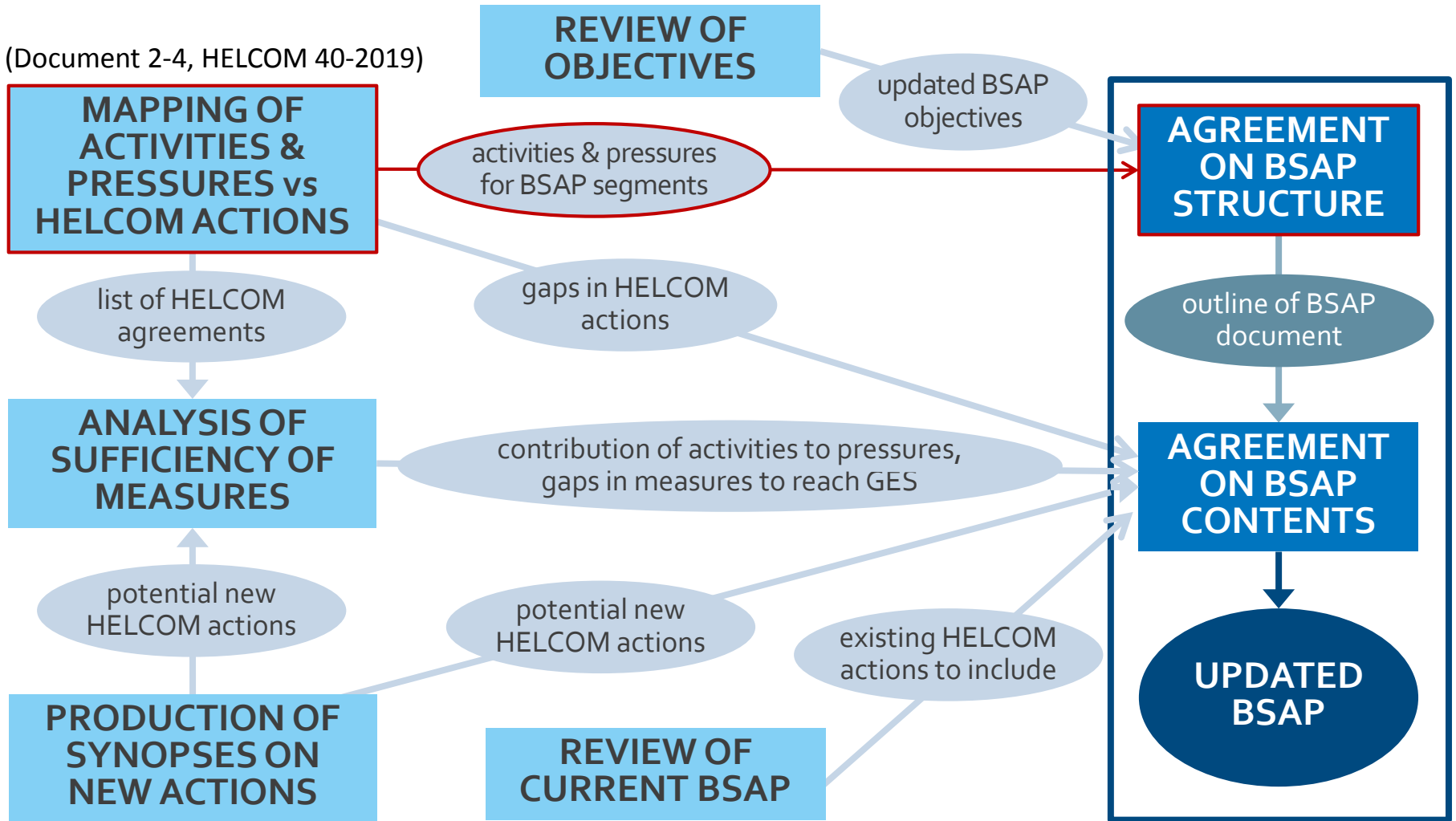


(Document 2-4, HELCOM 40-2019)



(Document 2-4, HELCOM 40-2019)



VISION (HOD 55-2018 agreed that the Vision of the current BSAP will be maintained):

A healthy Baltic Sea environment, with diverse biological components functioning in balance, resulting in good environmental/ecological status and supporting a wide range of sustainable human economic and social activities

SEGMENT and GOALS (original):

Baltic Sea unaffected by eutrophication

Baltic Sea undisturbed by hazardous substances

Environmentally friendly maritime activities

Favourable status of Baltic Sea biodiversity

SEGMENT and GOALS (as implied by GEAR 19-2018):

Baltic Sea unaffected by eutrophication

Baltic Sea undisturbed by hazardous substances pollution

Environmentally friendly maritime activities

Favourable status of Baltic Sea biodiversity

New objectives:

- marine litter
- underwater noise

New objectives:

- loss and disturbance to the seabed

SEGMENT and GOALS (as implied by HOD 55-2018):

Baltic Sea unaffected by eutrophication

Baltic Sea undisturbed by hazardous substances and marine litter

Environmentally friendly maritime sea-based activities

Favourable status of Baltic Sea biodiversity

New objectives:

- marine litter


New objectives:

- loss and disturbance to the seabed
- underwater noise

To support agreement: clarify activities and pressures that would be covered by each segment of the BSAP document

MATRIX BETWEEN HUMAN ACTIVITIES AND PRESSURES

HELCOM TAPAS project



TAPAS	Human Activities	Baltic Sea		Baltic Sea				Baltic Sea				Baltic Sea								
		Pressure	Activity	Pressure	Activity	Pressure	Activity	Pressure	Activity	Pressure	Activity	Pressure	Activity							
Baltic Sea	Shipping																			
	Navigation																			
	Port activities																			
	Recreation																			
	Industrial																			
	Energy																			
	Transport																			
	Urban																			
	Land use																			
	Water use																			
Baltic Sea	Shipping																			
	Navigation																			
	Port activities																			
	Recreation																			
	Industrial																			
	Energy																			
	Transport																			
	Urban																			
	Land use																			
	Water use																			

- Activity-pressures mapping e.g. from HELCOM TAPAS project
- >300 potential linkages
- What are the activities that contribute most to the pressures?
- Carried out as part of the analyses of sufficiency of measures
- Ready in autumn 2019
- Matrices in Annex 1 document 5-5 are provisional to guide further discussion on the BSAP structure and disposition of the BSAP document

Background

- HELCOM 39-2018 adopted a proposal for the BSAP update that states that existing segments should remain while new ecological objectives can be developed for additional issues, for example, marine litter, underwater sound and seabed damage and disturbance

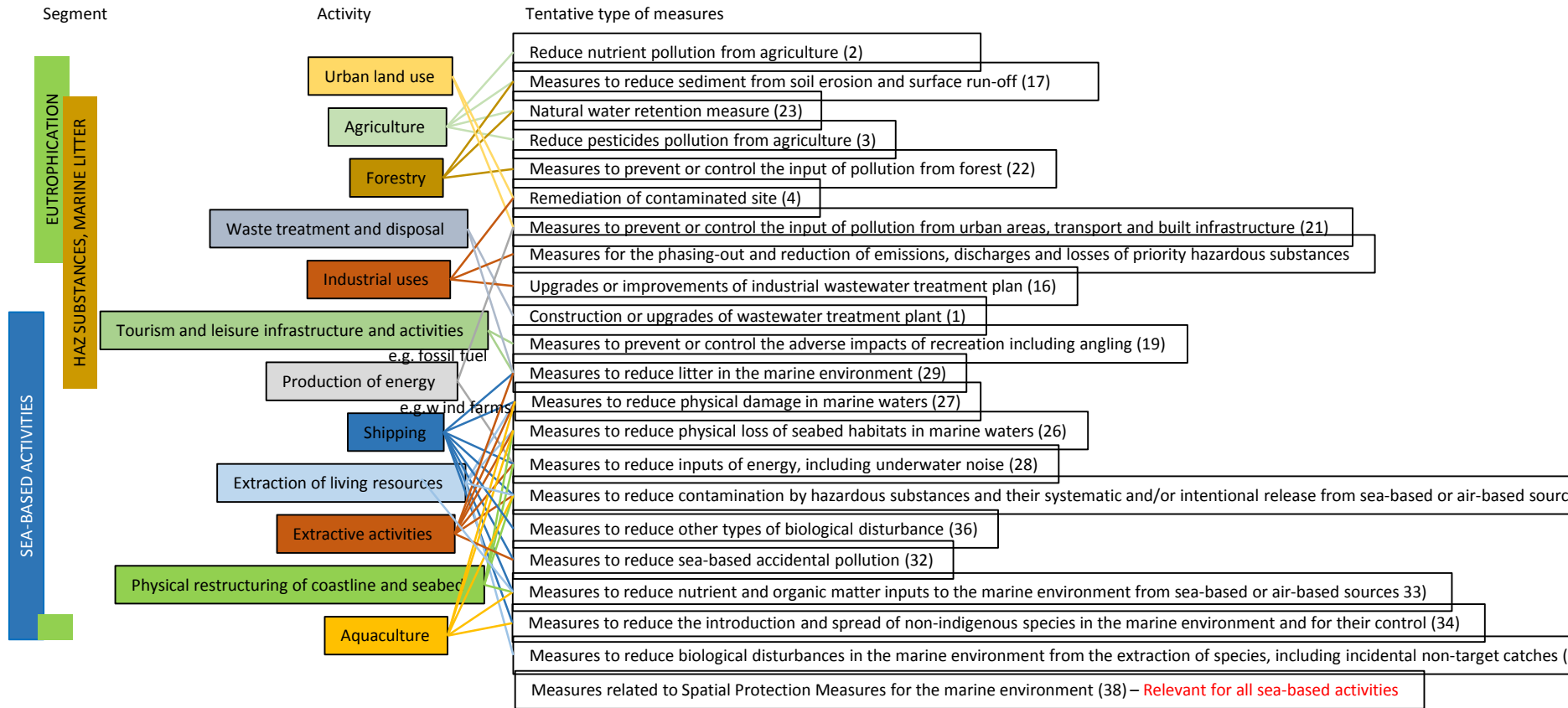
Discussion points:

- Is it important that the structure of the updated BSAP (segments and goals) stay close to the structure of the current BSAP?
- Should the ambition remain that goals should be easy to communicate?
- Is it important that outward communication of the 'BSAP structure' and 'BSAP document' follow the same outline; or would it be acceptable for them to differ?

Activity-pressures matrices (Annex 1)

- Provisional agreement by HOD 55-2018 used as a starting point
- Sea-based activities mapped against tentative segment on 'Sea-based activities'
- Land-based activities mapped against tentative segments on 'Eutrophication' and 'Hazardous substances and marine litter'
- Conservation activities mapped against segment on 'Biodiversity'
- Main overlaps: eutrophication, hazardous substances and marine litter originate from both land-based and sea-based activities
- Sea-based activities are likely to cause more types of pressures of concern
- Maritime Spatial Planning linked to segment on sea-based activities
- Biodiversity segment focused on conservation and protection activities, including Marine Protected Areas

Activity-measure linkage (Annex 2)



Type of measures/actions will to a large degree differ between the segments

Box 1. Eutrophication segment

Goals addressed:

- Baltic Sea unaffected by Eutrophication

[Cross-reference to goal on 'Sea-based activities' for achieving the goal and objectives on eutrophication, Cross-reference to goal on 'Biodiversity' on need to achieve the goal and objectives]

Pressures addressed:

- Input of nutrients and organic matter

[Management objectives and Ecological objectives to be added at a later stage]

Tentative activities addressed:

- Agriculture
- Forestry
- Urban land uses (e.g. stormwater)
- Waste treatment and disposal
- Aquaculture

Tentative action areas:

- Sustainable agriculture, aquaculture* and forestry practices
- Effective treatment of waste water ~~and airborne pollutants~~
- Well planned urban land use

Box 2. Hazardous substances and marine litter segment

Goals addressed:

- Baltic sea undisturbed by Hazardous substances and marine litter

[Cross-reference to segment on 'Sea-based activities' for achieving the goal and objectives for achieving the goals for hazardous substances and marine litter, Cross-reference to segment on 'Biodiversity' on need to achieve the goal and objectives]

Pressures addressed:

- Input of hazardous substances
- Input of marine litter

[Management objectives and Ecological objectives to be added at a later stage]

Tentative activities addressed:

- Agriculture
- Forestry
- Industrial uses (e.g. oil and gas refineries, industrial plants)
- Waste treatment and disposal
- Tourism and leisure infrastructure and activities
- Production of energy (fossil fuel, nuclear)

Tentative action areas:

- Sustainable agriculture and forestry practices
- Effective treatment of waste water and airborne pollutants
- Life cycle management of products
- Responsible tourism

Box 3. Sea-based activities segment

Goals addressed:

- Environmentally friendly sea-based activities

[Cross-reference to goals for 'Eutrophication' and 'Hazardous substances and marine litter']

Pressures addressed:

- Input of nutrients
- Input of hazardous substances
- Input of marine litter
- Loss and disturbance to the seabed
- Disturbance of species
- Extraction and mortality species
- Introduction of non-indigenous species
- Introduction of underwater noise

Tentative activities addressed:

- Tourism and leisure infrastructure and activities
- Production of energy (e.g. operational wind farms)
- Shipping (e.g. transport and transport infrastructure)
- Extraction of living resources (e.g. fishing, hunting, marine plant extraction)
- Extraction of non-living resources (e.g. mineral extraction, oil and gas extraction)
- Restructuring of seabed morphology (e.g. dredging)
- Aquaculture, marine (including infrastructure)

Tentative actions areas:

- Shipping based on green technology
- Efficient ballast water management
- Effective waste treatment
- Aquaculture practices based on BAT and BEP
- Environmentally safe offshore installations
- Sustainable practices of activities that cause impacts on the seabed
- Responsible tourism
- Mitigating emissions of anthropogenic noise
- Maritime Spatial Planning

Box 4. Biodiversity

Goals addressed:

- **Favourable conservation status of biodiversity***

[Cross-reference to need to reach goals of other segments to reach the goal of 'Biodiversity']

Pressures addressed:

- **Not applicable**

Tentative activities addressed:

- **Marine Protected Areas**
- **Restoration of habitats**
- **Reintroduction of species**
- **Conservation and management plans**

Tentative actions areas:

- **Conservation and protection of ecosystem attributes, including species and habitats, diversity and replication of traits, ecosystem services, genetic variation etc.**
- **Restoration of habitats**

Supporting framework

- **Action areas:** clarify the intention and aim of HELCOM actions and agreements. Establish links SDGs.
 - **Follow-up:** implementation of strategic HELCOM actions.
- **Management objectives:** describe the desired change or effect of measures and HELCOM actions
 - **Follow-up:** pressures/conservation targets and associated indicators.
- **Ecological objectives:** describe aspirational state of the environment
 - **Follow-up:** threshold values and associated indicators.

Example of use in BSAP document for Eutrophication

Goals and objectives:

- The overall goal of HELCOM is to have a **Baltic Sea unaffected by eutrophication** which is characterized by the following **ecological objectives**: [X, Y, Z], The achievement of objectives is assessed every [X] years through **HELCOM core indicators** [ref to eutrophication indicators].
- To reach the goal of a Baltic Sea unaffected by eutrophication the **management objective** is to **minimize input of nutrients** from all sources. This management objective is operationalized by the nutrient reduction **targets** [list MAI/CART]. The achievement of the targets is assessed every [X] years.

To reach the goals and objectives:

- *[ACTION AREA 1]* We will ensure **sustainable agriculture, aquaculture and forestry practices** in the Baltic Sea region, in line with SDG target 2.4.
To this end we ADOPT...: [ACTION X,Y,Z]
- *[ACTION AREA 2]* We will ensure furtherd improve water quality by **increasing the effectiveness of waste water treatment**, thereby also contributing to reaching SDG target 6.3.
WE FIRMLY COMMIT to... [ACTION X,Y,Z]

Input of nutrients (document 2-4 HELCOM 40-2019)

Table 2.1 Management objectives and ecological objectives		Table 2.6 Activity: Industrial and urban waste treatment and disposal, Pressure: Input of nutrients														
Subject	Existing	Subject	Existing	Additional information												
Management objectives	Partly	HELCOM actions	Yes	<p>HELCOM Rec 28E/5 Municipal wastewater treatment. Provides guidelines on the development of sewerage systems and limit values on the discharge of municipal wastewater.</p> <p>HELCOM Rec 28E/6, On-site wastewater treatment of single family homes, small businesses and settlements up to 300 person equivalents</p> <p>HELCOM Rec 28E/7 Measures aimed at the substitution of polyphosphates (phosphorus) in detergents</p> <p>HELCOM Rec 38-1 Sewage sludge handling</p> <table border="1"> <thead> <tr> <th colspan="2">Not yet accomplished national actions</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>■ Target the elimination of phosphorus in laundry detergents for consumer use as soon as possible but not later than by 2015</td> <td></td> <td>8 / 9</td> </tr> <tr> <td>■ Enhance the recycling of phosphorus (especially in agriculture and wastewater treatment) and to promote development of appropriate methodology</td> <td></td> <td>3 / 9</td> </tr> <tr> <td>■ Advanced municipal waste water treatment under HELCOM Recommendation 28E/5</td> <td></td> <td>3 / 9</td> </tr> </tbody> </table>	Not yet accomplished national actions		Status	■ Target the elimination of phosphorus in laundry detergents for consumer use as soon as possible but not later than by 2015		8 / 9	■ Enhance the recycling of phosphorus (especially in agriculture and wastewater treatment) and to promote development of appropriate methodology		3 / 9	■ Advanced municipal waste water treatment under HELCOM Recommendation 28E/5		3 / 9
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■ Advanced municipal waste water treatment under HELCOM Recommendation 28E/5		3 / 9														
Indicators for pressure	Yes	HELCOM restrictions or limit values	Yes	<p>Rec 28E/5; includes %reduction or limit values for BOD, TP, TN, for 300 -2.000 PE, 2.000-10.000 PE, 10 000-100.000 PE, >100.000 PE</p> <p>Rec 28E/6; includes Maximum permissible daily load per capita for BOD 5 TP and TN of treated wastewater for <300 PE.</p> <p>Rec 28E-7; includes that a maximum limit for the content of TP should be applied and a hurdle of 0.2 to 0.5% P weight/weight could be recommended</p>												
Targets for pressures	Yes	Information on magnitude or extent	Partly	Share of nitrogen from municipal point sources is 73.5% (7214 tonnes per year) and share of phosphorus is also 73.5% (488 tonnes per year). Share of nitrogen from industrial point sources is 18,3% (1793 tonnes per year) and share of phosphorus is 13,6% (90 tonnes per year) (PLC 6, BSEP 153). Information on share of municipal and industrial wastewater from diffuse sources is not available.												
Ecological objectives	Yes															
Indicators for status	Yes															
Threshold values for status	Partly															
Indicators under development	Yes															

Physical disturbance to the seabed (document 2-4 HELCOM 40-2019)

Subject	Existing	Comment
Management objectives	No	Potential general management objective: ' <i>Minimum impact on seabed habitats from sea-based activities</i> '. Management objectives could however also be formulated for specific activities
Indicators for pressures	No	Although there are no officially agreed indicators collation of information on extent of activities that are causing physical disturbances of the seabed as well as pressures to the seabed are

Subject	Existing	Additional information
Targets for pressures	HELCOM actions	Yes HELCOM Rec 19/1 , Marine Sediment Extraction in the Baltic Sea Area (including guidelines for sediment extraction). Provides guidelines for carrying out sediment extraction including EIA, extraction practice (e.g. BAT, BEP), monitoring.
Ecological objectives		HELCOM Rec 18/2 , Offshore activities. Provides guidelines i.e. on environmental assessments prior to start of activity, rules for discharge of drilling cuttings, on monitoring
Indicators for status	HELCOM restrictions or limit values	Yes No restrictions to the disturbance from the activity, however: HELCOM Rec 19/1 places restrictions in that permits to extract sediments should not be granted for nature reserves, national parks, Natura 2000 areas . In other sensitive areas (as defined in the recommendation) permits should only be granted if an EIA according to the Guidelines is proving that the extraction is not likely to cause significant negative ecological effects
Threshold values for status		HELCOM Rec 18/2 places restrictions on e.g. no exploration or exploitation in Baltic Sea Protected Areas
Indicators under developme	Information on magnitude or extent	Yes GIS layer: Area of extraction of sand and gravel