

Marine Strategy Framework Directive

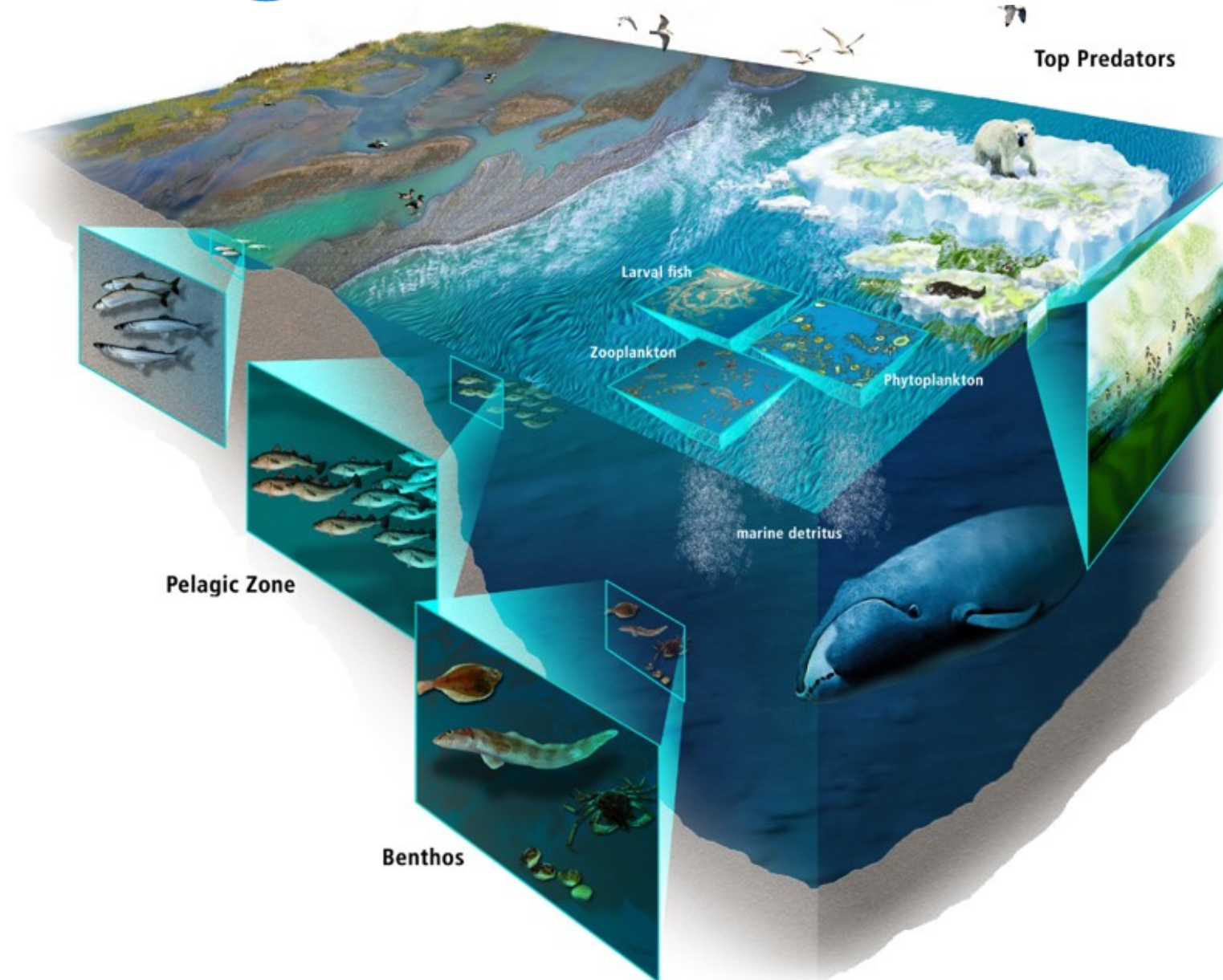
La Direttiva quadro sulla strategia per l'ambiente marino

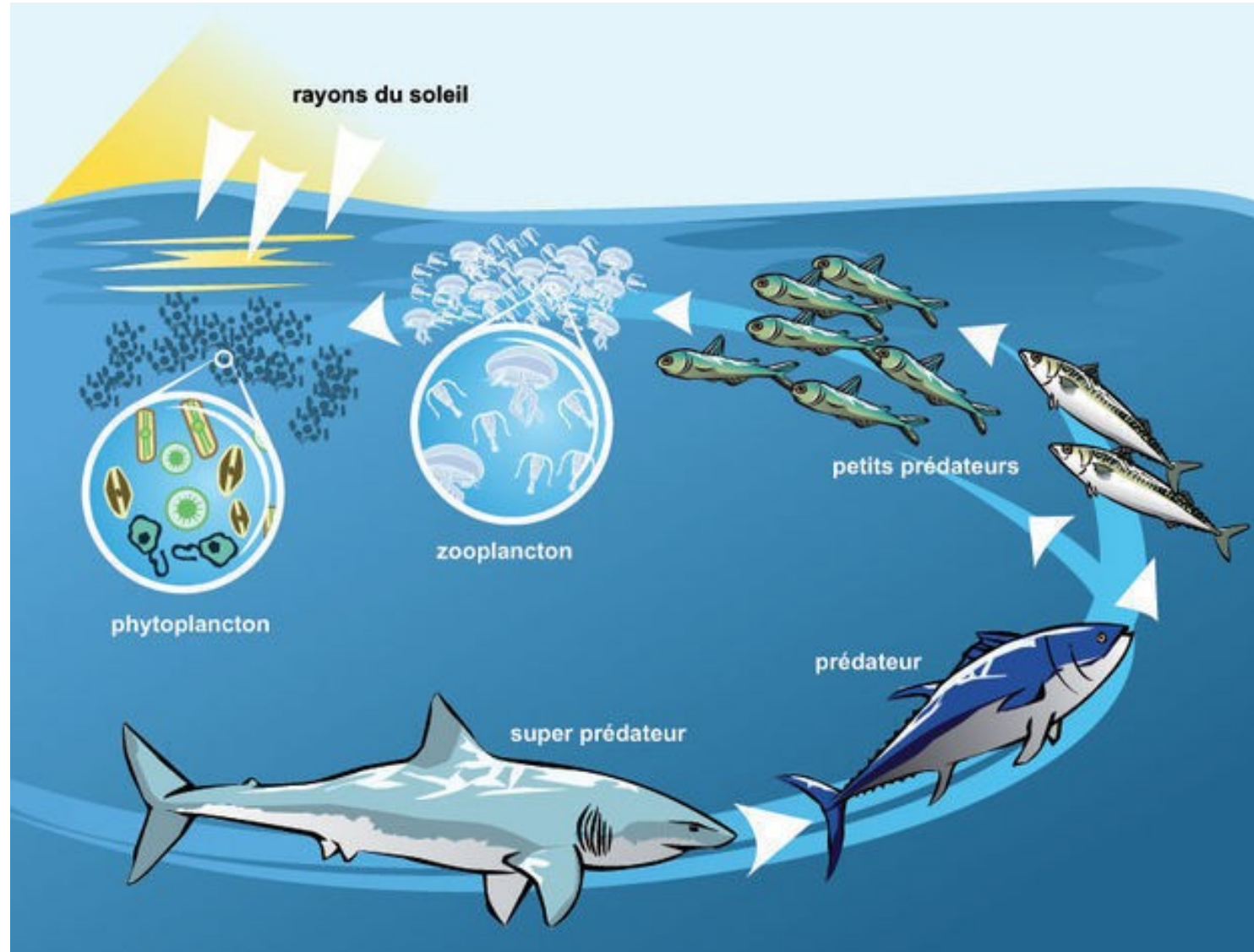
MSFD – 2008/56/CE

Romano T. Baino
ARPAT - Settore Mare

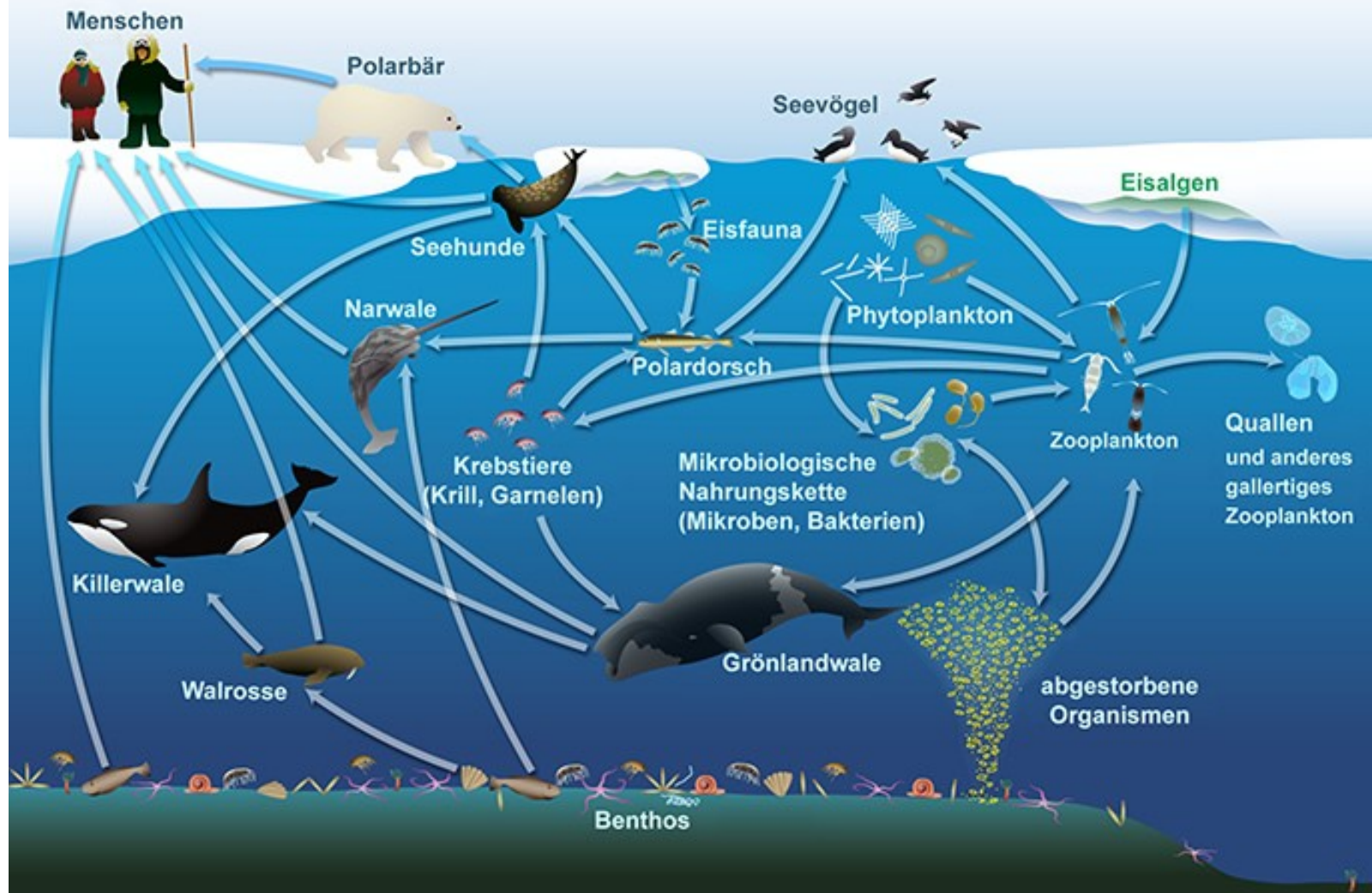
Il Sistema Toscano per il controllo e la salvaguardia
delle acque di balneazione e dell'ambiente marino

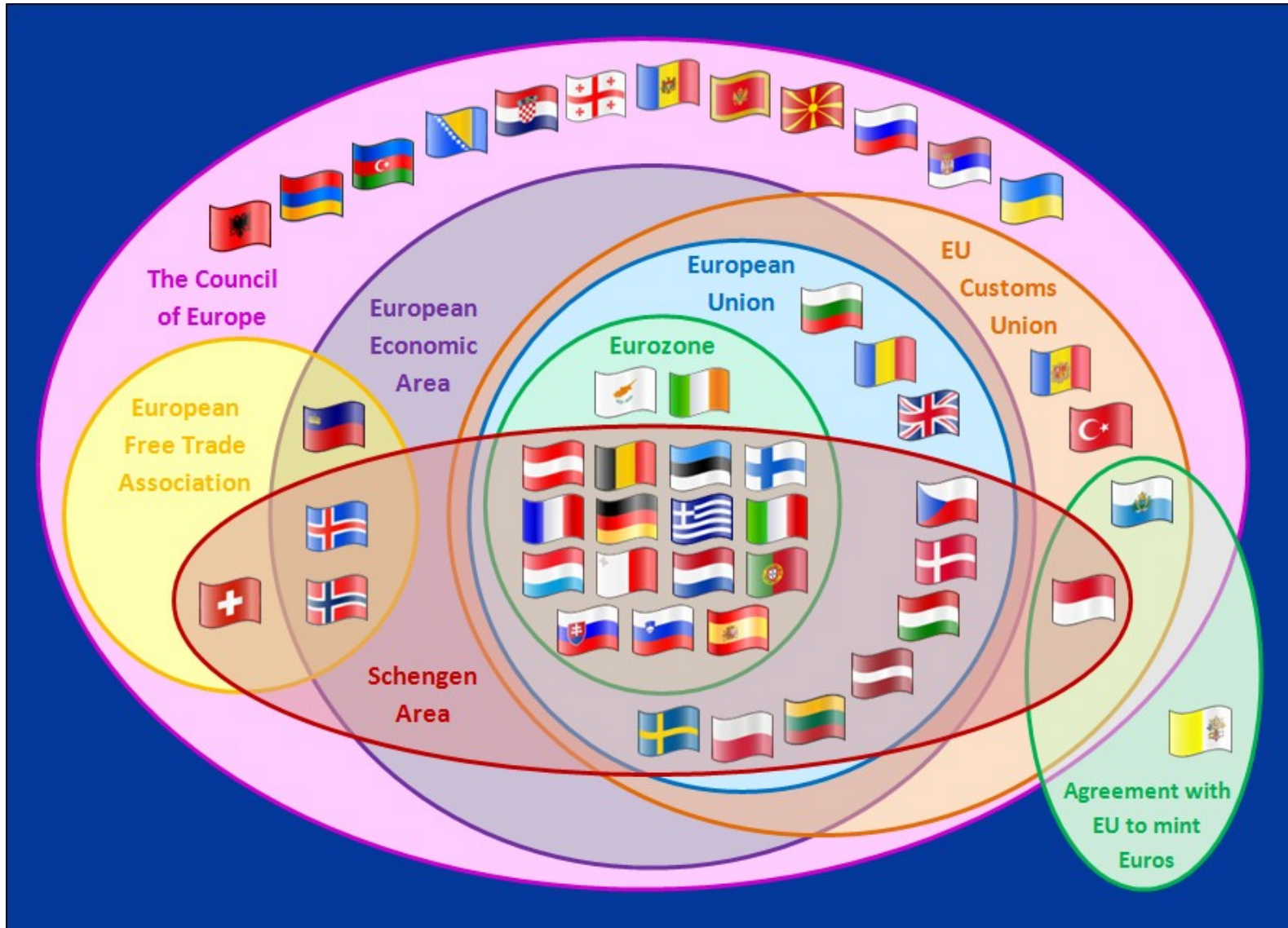
Livorno, 4 maggio 2018 Sala Ferretti, Fortezza Vecchia



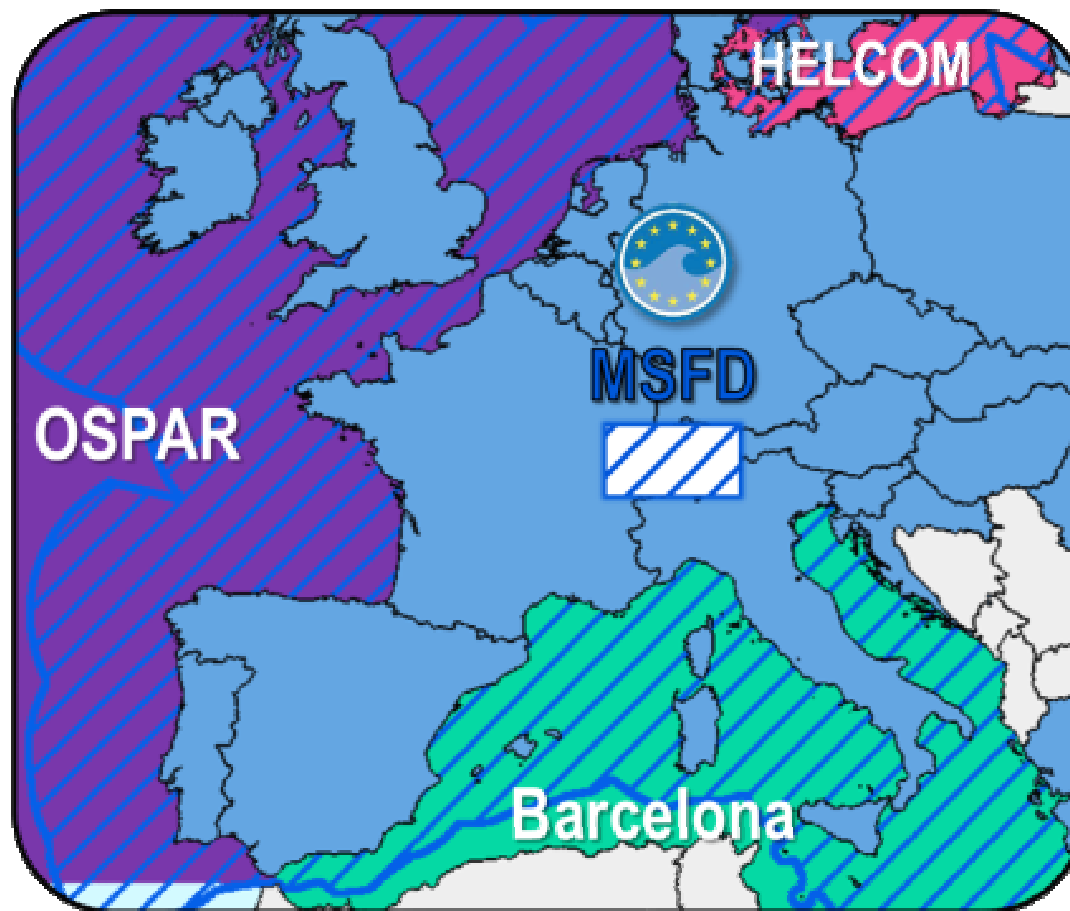


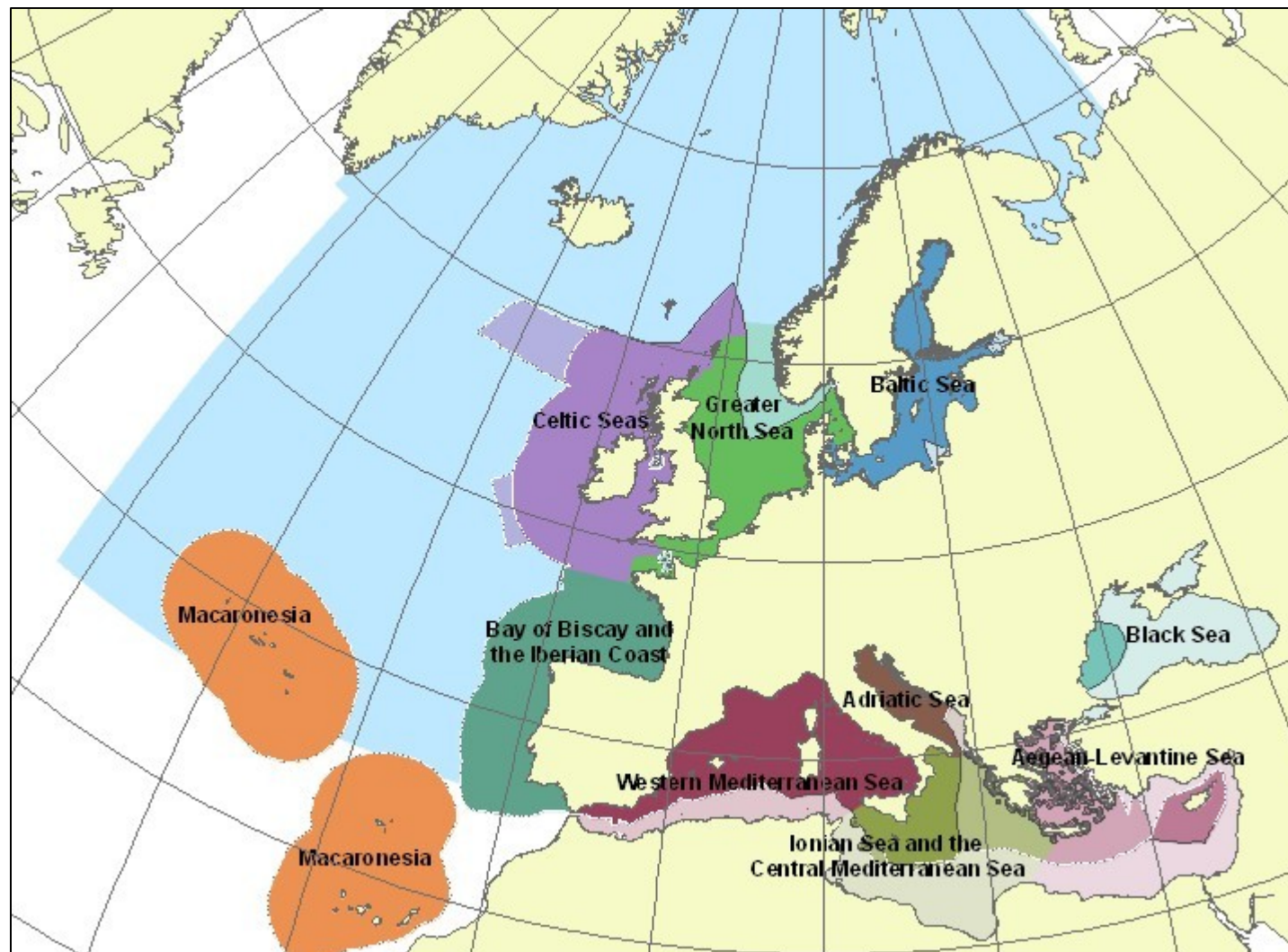
Arktis: Nahrungsketten in den Arktischen Meeren

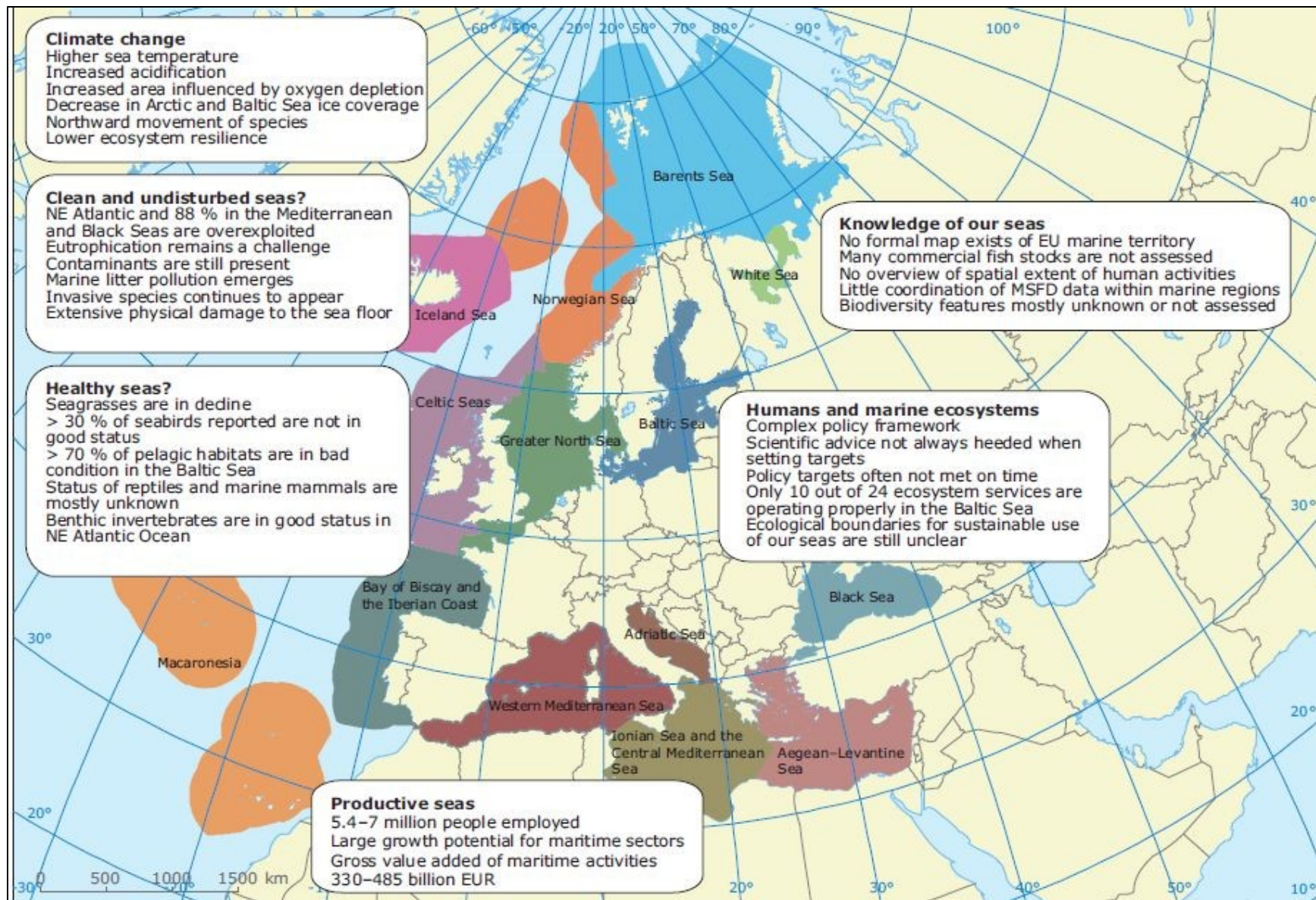


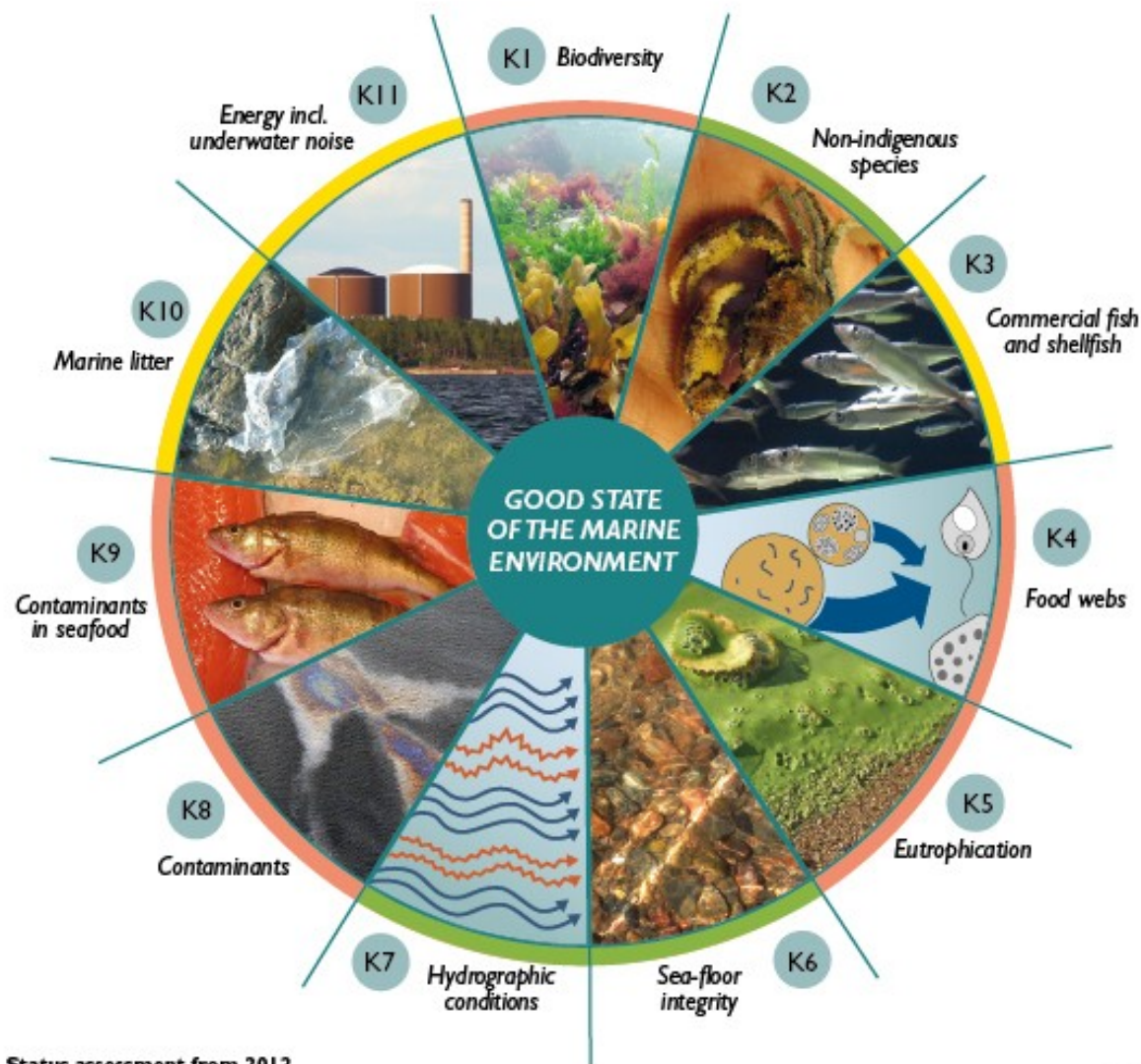


Regional Seas Conventions and Marine Strategy Framework Directive









Status assessment from 2012

- State is good
- Good state has not been achieved
- Assessment could not be carried out

© SYKE
Photos: Mats Westerborn,
Maija Lehtinen, Riku Lummaa,
the Finnish Border Guard/SYKE,
Per Mickwitz and Elja Rantajärvi.

1. Diversité biologique
MNHN/AAMP

2. Espèces non indigènes
MNHN

3. Espèces exploitées
Ifremer

4. Réseau trophique marin
CNRS INEE

5. Eutrophisation
Ifremer

6. Intégrité des fonds marins
BRGM

7. Conditions Hydrographiques
SHOM

8. Contaminants
Ifremer

9. Questions sanitaires
ANSES

10. Déchets marins
Ifremer

11. Énergie marine
SHOM

Pilotage : Direction de l'eau et de la biodiversité (DEB)

Coordination : DEB / Ifremer / AAMP

Biological
diversity

1.



Non-indigenous
species

2.



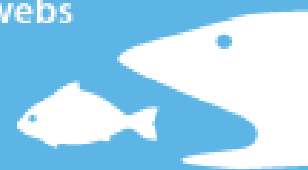
Population of
commercial
fish/shellfish

3.



Elements of marine
food webs

4.



Eutrophication

5.



Sea floor integrity

6.



Alteration of
hydrographical
conditions

7.



Concentrations of
contaminants

8.



**Good Environmental
Status**

Contaminants in
fish/seafood for
human consumption

9.



Marine litter

10.



Introduction of
energy including
underwater noise

11.



How we are making it easier to achieve the good environmental status of marine waters



More flexibility
to concentrate
on problem
areas



More accurate
way to measure
achievement of
environmental
goals



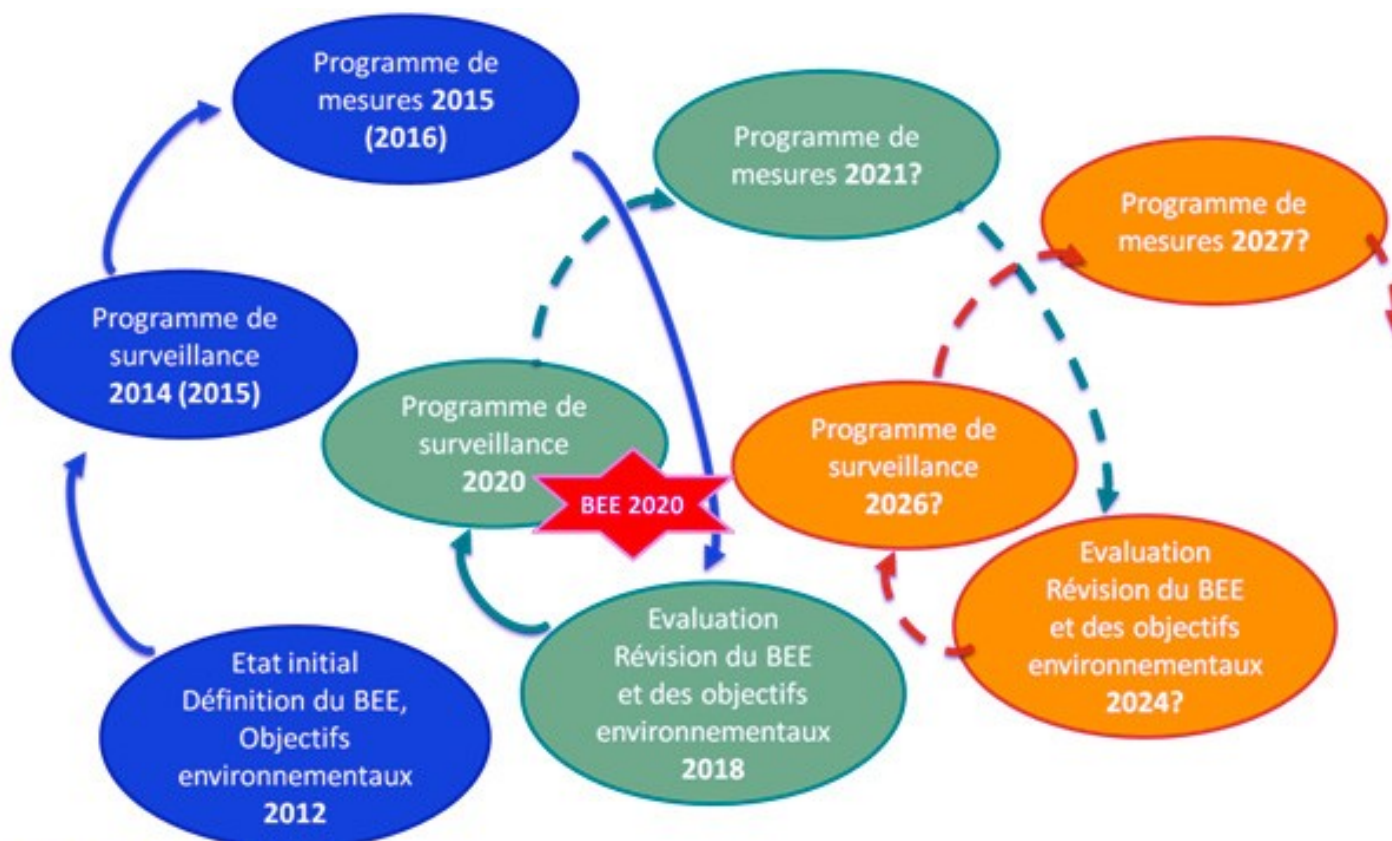
Increased
regional and
sub-regional
cooperation



Enhanced
synergy with
existing EU
nature, water
and fisheries
legislation



Better
understanding
of human
impacts on
marine
environment



Source : d'après Schéma DCE

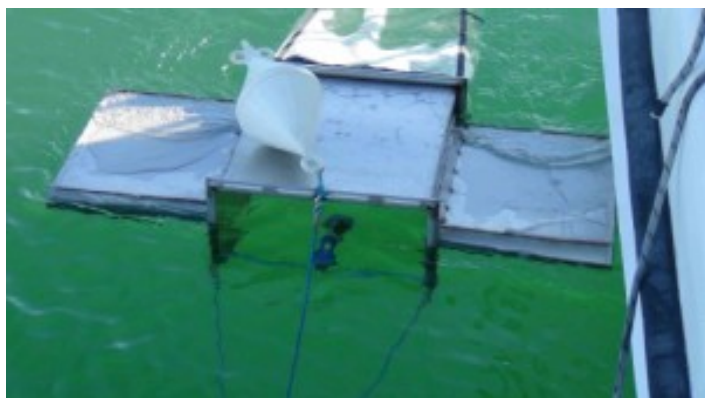
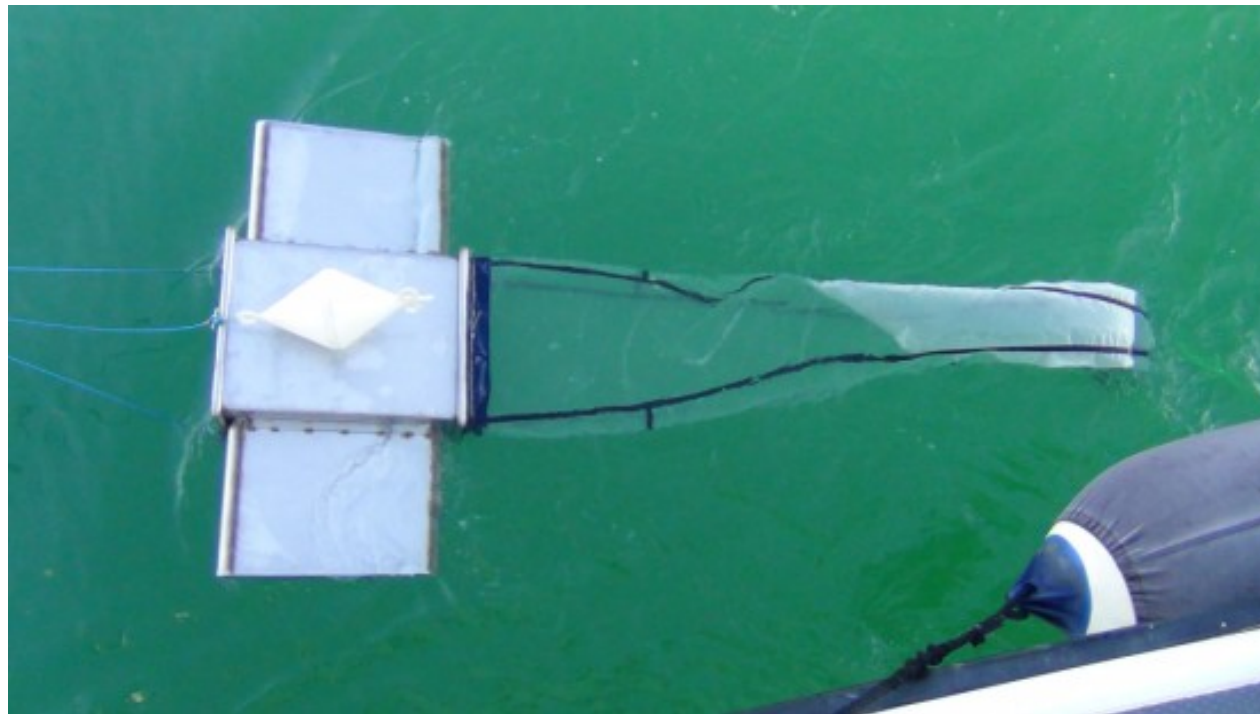
MODULI

N	Modulo	n aree	note
1	Colonna d'acqua, habitat pelagici	8	contaminazione nell'acqua e nei sedimenti
2	Analisi microplastiche	4	
3	Specie non indigene	1	
4	Rifiuti spiaggiati	5	
5	Contaminazione	5	per traffico marittimo e impianti industriali
6	Input di nutrienti	1	da fonti fluviali
7	Habitat coralligeno	3	
8	Habitat fondi a Maerl	1	
9	Habitat di fondo marino sottoposti a danno fisico	1	
10	Habitat delle praterie di Posidonia oceanica	1	
11	Specie bentoniche protette	12	Patella ferruginea e Pinna nobilis
12	Mammiferi marini: Tursiops truncatus	1	delfino = Tursiops truncatus
13	Avifauna marina	5	marangone, gabbiano corso, berta minore e maggiore

Poseidon



Manta

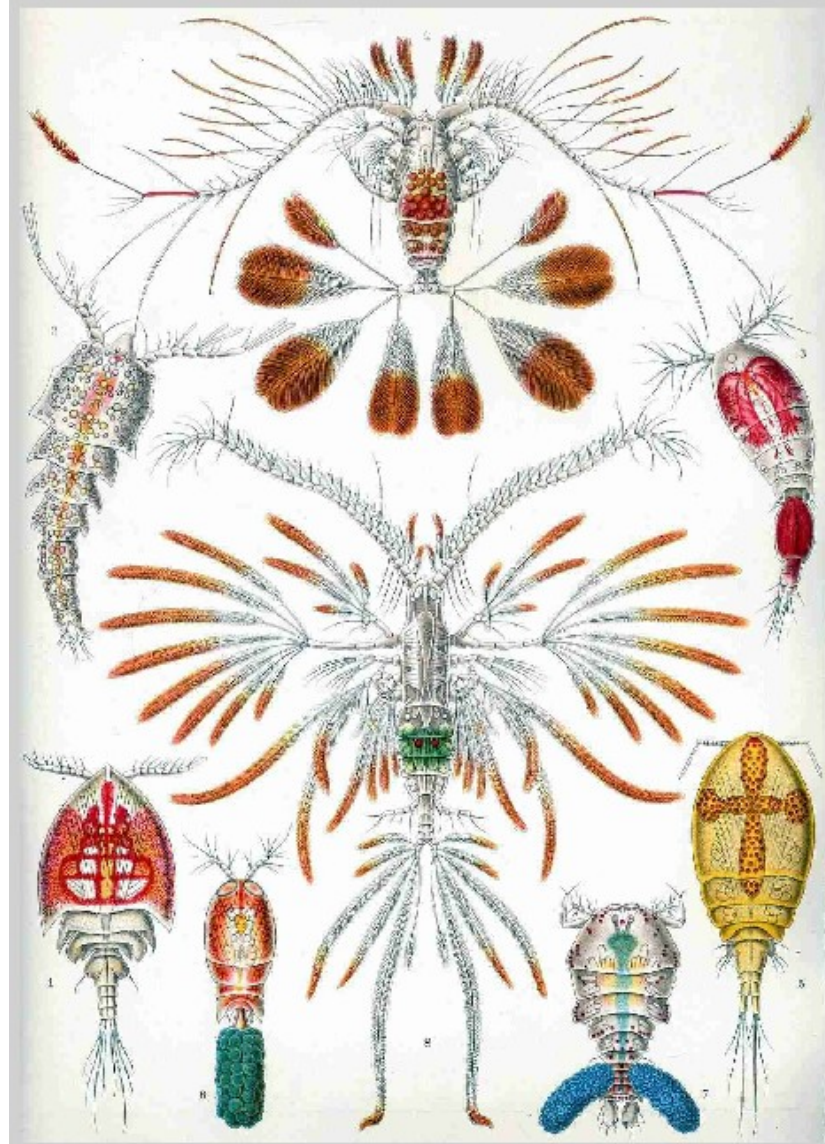


Posidonia

Pinna



Plankton



Plankton



Side Scan Sonar



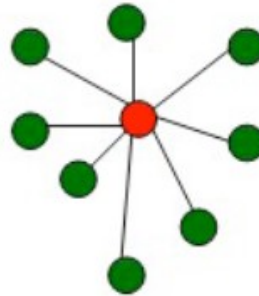
Marine Litter



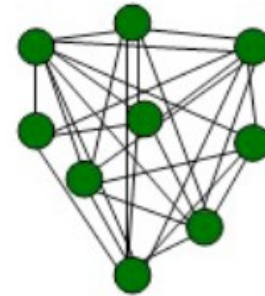
Artisans - Hierarchies - Networks



~19th C



+/- 20th C



21st C

