



EU Marine Strategy Framework Directive

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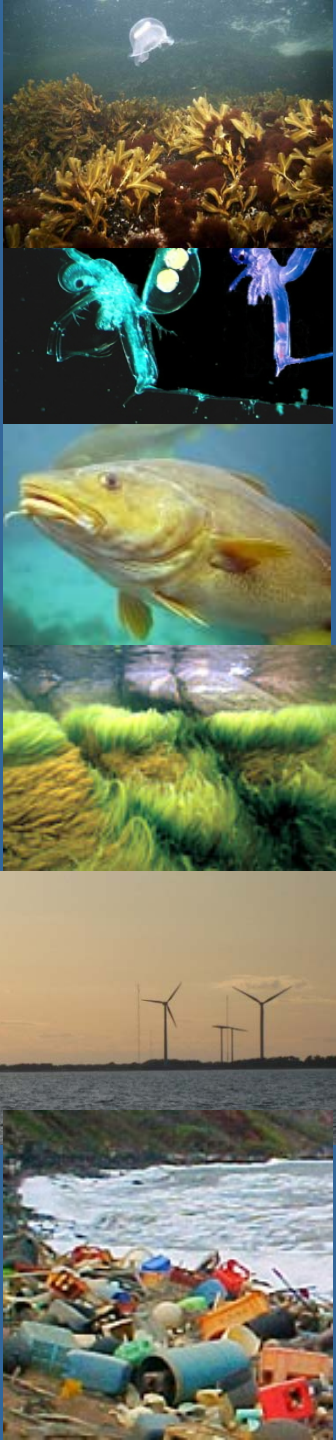
Directive objectives

- Member States shall take **the necessary measures** to achieve or maintain
- **good environmental status** in the marine environment
- by the year **2020** at the latest.



Descriptors

- (1) Biological diversity
- (2) Non-indigenous species
- (3) Commercially fish and shellfish
- (4) Food webs
- (5) Eutrophication
- (6) Sea-floor integrity
- (7) Permanent alterations
- (8) Contaminants
- (9) Contaminants in fish for human consumption
- (10) Marine litter
- (11) Energy, including underwater noise



Descriptors

- (1) Biological diversity
- (2) Non-indigenous species
- (3) Commercially fish and shellfish
- (4) Food webs

(5) Human induces eutrophication is minimised, especially adverse effects thereof, such as losses in biodiversity, ecosystem degradation, harmful algal blooms and oxygen deficiency in bottom waters

- (9) Contaminants in fish for human consumption
- (10) Marine litter
- (11) Energy, including underwater noise



5.1 Nutrient levels

- Nutrients concentration in the water column
- Nutrient ratios (silica, nitrogen and phosphorus), where appropriate

5.2 Direct effects of nutrient enrichment

- Chlorophyll concentration in the water column
- Water transparency related to increase in suspended algae, where relevant
- Abundance of opportunistic macroalgae
- Species shift in floristic composition such as diatoms to flagellate ratio, benthic to pelagic shifts, as well as blooms events of nuisance/toxic algae blooms (e.g. cyanobacteria) caused by human activities

5.3 Indirect effects of nutrient enrichment

- Abundance of perennial seaweeds and seagrasses (e.g. fucoids, eelgrass and Neptune grass) adversely impacted by decrease in water transparency
- Dissolved oxygen, i.e. changes due to increased organic matter decomposition and size of area concerned

2020 Achieve Good environmental status



2016 Programmes of measures - operational

2015 Programmes of measures - developed

2014 Establishment of monitoring programmes

2012

Initial Assessment of current environmental status

Establish targets for good environmental status

2010 EC decision on “criteria and methodological standards”

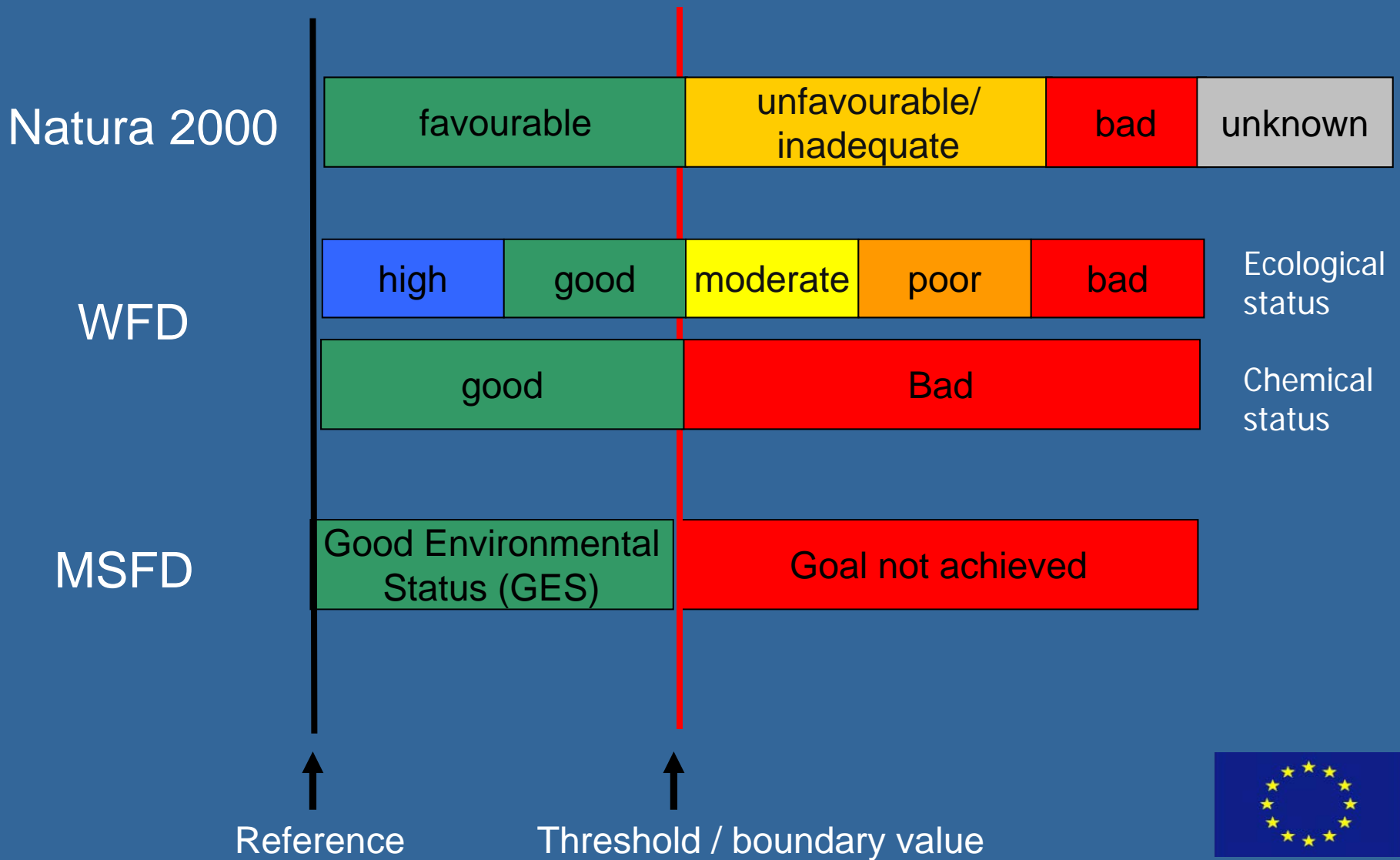


Some key concepts:

- **Build upon existing activities developed in other EU Directives and in the framework of regional seas conventions**



Assessment scales for environmental status / conservation status

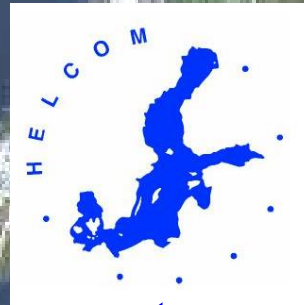


Some key concepts:

- **Build upon existing activities developed in other EU Directives and in the framework of regional seas conventions**
- **Regional approach**



Arctic Council

The OSPAR Commission logo consists of a blue globe icon on the left and the text "OSPAR COMMISSION" in bold blue letters on the right. Below the text is the tagline "Protecting and conserving the North-East Atlantic and its resources".

**OSPAR
COMMISSION**
*Protecting and conserving the
North-East Atlantic and its resources*

NORTH ATLANTIC
OCEAN

The logo for the Commission on the Protection of the Black Sea Against Pollution (COPPOL) features six stylized crescent moons and stars in white on a dark blue background.

Commission on the Protection
of the Black Sea Against Pollution
Permanent Secretariat

The UNEP logo features a stylized human figure with arms raised inside a circular emblem, surrounded by a laurel wreath, with the text "UNEP" below. The MAP logo features a stylized wave inside a circular emblem, surrounded by a laurel wreath, with the text "MAP" above and "United Nations Environment Programme Mediterranean Action Plan" below.

UNEP
MAP
United Nations Environment
Programme Mediterranean
Action Plan

Some key concepts:

- **Build upon existing activities developed in other EU Directives and in the framework of regional seas conventions**
- **Regional approach**
- **Adaptive management, with regular review (every 6 years)**



START

Assessment of the state of the environment and pressures, initially in 2012

Review results and update


Good Environmental status (2020)

Implementation

Establish precise objectives, plus targets and indicators (2012)

Establish monitoring programme (2014)
Establish programmes of measures (2015)

Common EC criteria on good environmental status (to be agreed in 2010)



Conclusions:

to reach good environmental status in the European seas we need:

- Continued discussion with scientists to improve the criteria and indicators, develop the targets, design the monitoring programs and to evaluate the assessments
- Strong cooperation within and between the Regional Sea Conventions
- Engaged and skilled managers



Marine Strategy Framework Directive

Thank you !

achieving good environmental status
for all European marine waters

http://ec.europa.eu/environment/water/marine/index_en.htm

