



Bu proje Avrupa Birliđi ve Türkiye Cumhuriyeti tarafından finanse edilmektedir.
This project is co-financed by the European Union and the Republic of Turkey

Türkiye'de Deniz Stratejisi Çerçeve Direktifi Kapsamında Kapasite Geliştirme Projesi
Capacity Building Project on Marine Strategy Framework Directive in Turkey

Economic and Social Analysis in accordance with the Marine Strategy Framework Directive

**Dr. Daiva Semėnienė, Key Expert 3,
Kick-off meeting, 6 April 2016**



Denizlerimizin geleceđi bizim ellerimizde *The future of the seas is in our hands*



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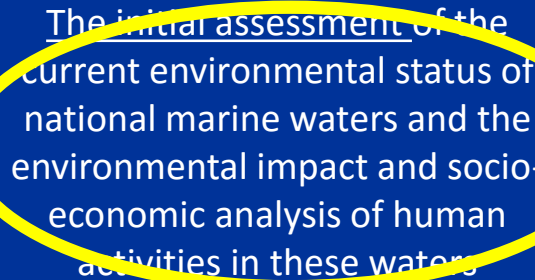
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CONTENT of the PRESENTATION


- Requirements of the MSFD
- Guidelines and Recommendations of the European Commission for the SEA and preparation of PoMs
- Project plan



STEPS OF THE IMPLEMENTATION OF THE MSFD

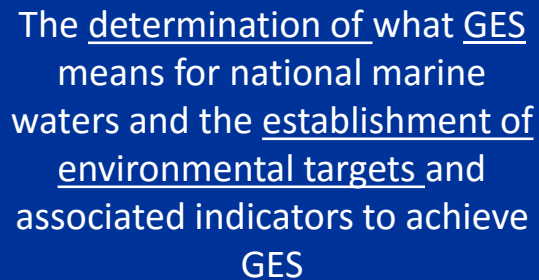


The initial assessment of the current environmental status of national marine waters and the environmental impact and socio-economic analysis of human activities in these waters

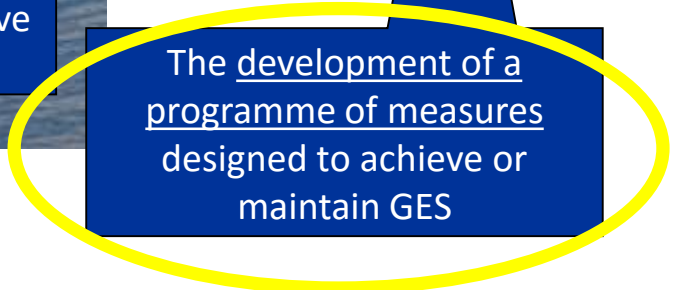


The establishment of a monitoring programme for the ongoing assessment and the regular update of targets

2008 → 2009 → 2010 → 2011 → 2012 → 2013 → 2014 → 2015 → 2016 → 2017 → 2018 → 2019 → 2020



The determination of what GES means for national marine waters and the establishment of environmental targets and associated indicators to achieve GES

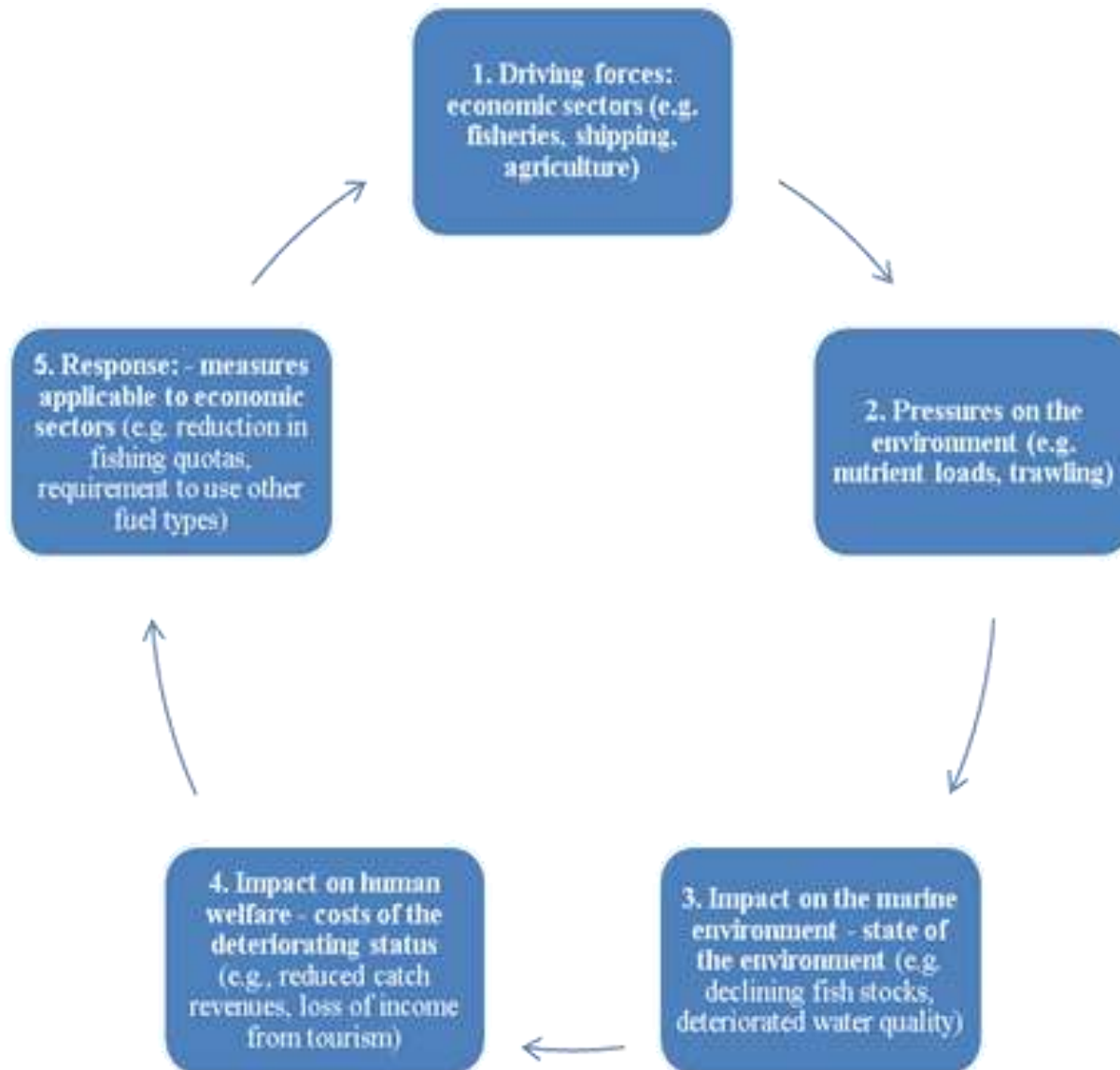


The development of a programme of measures designed to achieve or maintain GES



Implementation of the PoM starts

LINKAGES BETWEEN ECONOMIC SECTORS, STATE OF THE MARINE ENVIRONMENT, HUMAN WELFARE AND ENVIRONMENTAL MEASURES



WHAT IS THE VALUE OF A SEA?

Value is assessed by analysing economy sectors, dependent on the sea

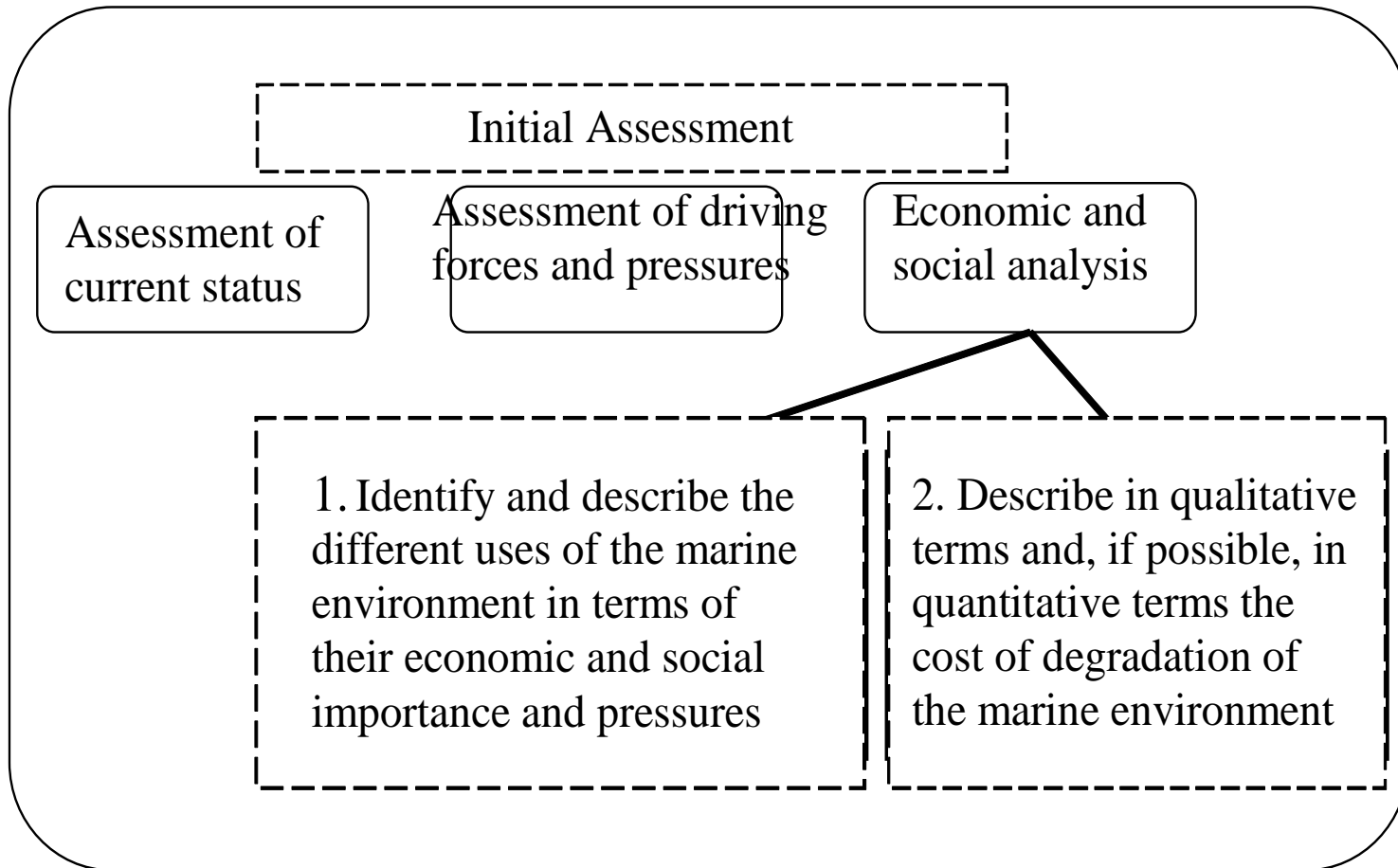
- Aquaculture
- Shipping construction and transport
- Coastal defence and flood protection
- Defence - Military
- Fisheries
- Tourism
- Mining (gravel, sand and shell extraction)
- Oil and Gas
- Cables (e.g. Power transmission, Telecommunications, Pipelines - interconnectors)
- Renewable energy (e.g. wind farms)
- Storage (of gases e.g. CO2, CCS)
- Water abstraction
- Water transport
- The use of the marine water for waste and wastewater disposal (agriculture, industry, households etc.)
- Supporting infrastructure (e.g. ports, marinas, navigation aids)



Value is assessed by analysing ecosystem services:

Provisioning functions	Supporting and regulating functions	Cultural services
Food	Carbon sequestration	Recreational
Biological diversity	Nutrient recycling	Inspirational
Sand, amber, seashells etc.	Purification of water etc.	Existence etc.

OBJECTIVES (STEPS) OF THE ECONOMIC AND SOCIAL ANALYSIS DURING THE INITIAL ASSESSMENT



ECONOMIC AND SOCIAL ANALYSIS FOR THE INITIAL ASSESSMENT FOR THE MARINE STRATEGY FRAMEWORK DIRECTIVE:

A GUIDANCE DOCUMENT

- Adopted on 21 December 2010
- A non-legally binding document

Describes methods for

- An economic and social analysis of the use of marine waters
- “Business as usual” scenario
- Cost of degradation

1. IDENTIFY AND DESCRIBE THE DIFFERENT USES OF THE MARINE ENVIRONMENT IN TERMS OF THEIR ECONOMIC AND SOCIAL IMPORTANCE AND PRESSURES

- Identify and describe the different uses of and pressures on the marine environment.
- Assess direct and, if possible, the indirect benefits of the different uses of the marine environment.
- Describe in qualitative and, if possible, quantitative terms the pressures caused by the different uses of the marine environment.

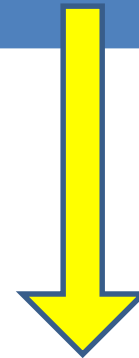
production value, intermediate consumption (goods bought from and sold to other businesses), value added (profits), number of employees (employment) and compensation of employees (salaries etc.)

2. DESCRIBE IN QUALITATIVE TERMS AND, IF POSSIBLE, IN QUANTITATIVE TERMS THE COST OF DEGRADATION OF THE MARINE ENVIRONMENT (1)

Three different approaches:

1. Assess the difference of the value of the sea water due to reduced value of ecosystem services

2. Assess financial costs of relevant economic sectors due to degradation of the sea environment



2. DESCRIBE IN QUALITATIVE TERMS AND, IF POSSIBLE, IN QUANTITATIVE TERMS THE COST OF DEGRADATION OF THE MARINE ENVIRONMENT (2)

- Is the sea environment degrading?

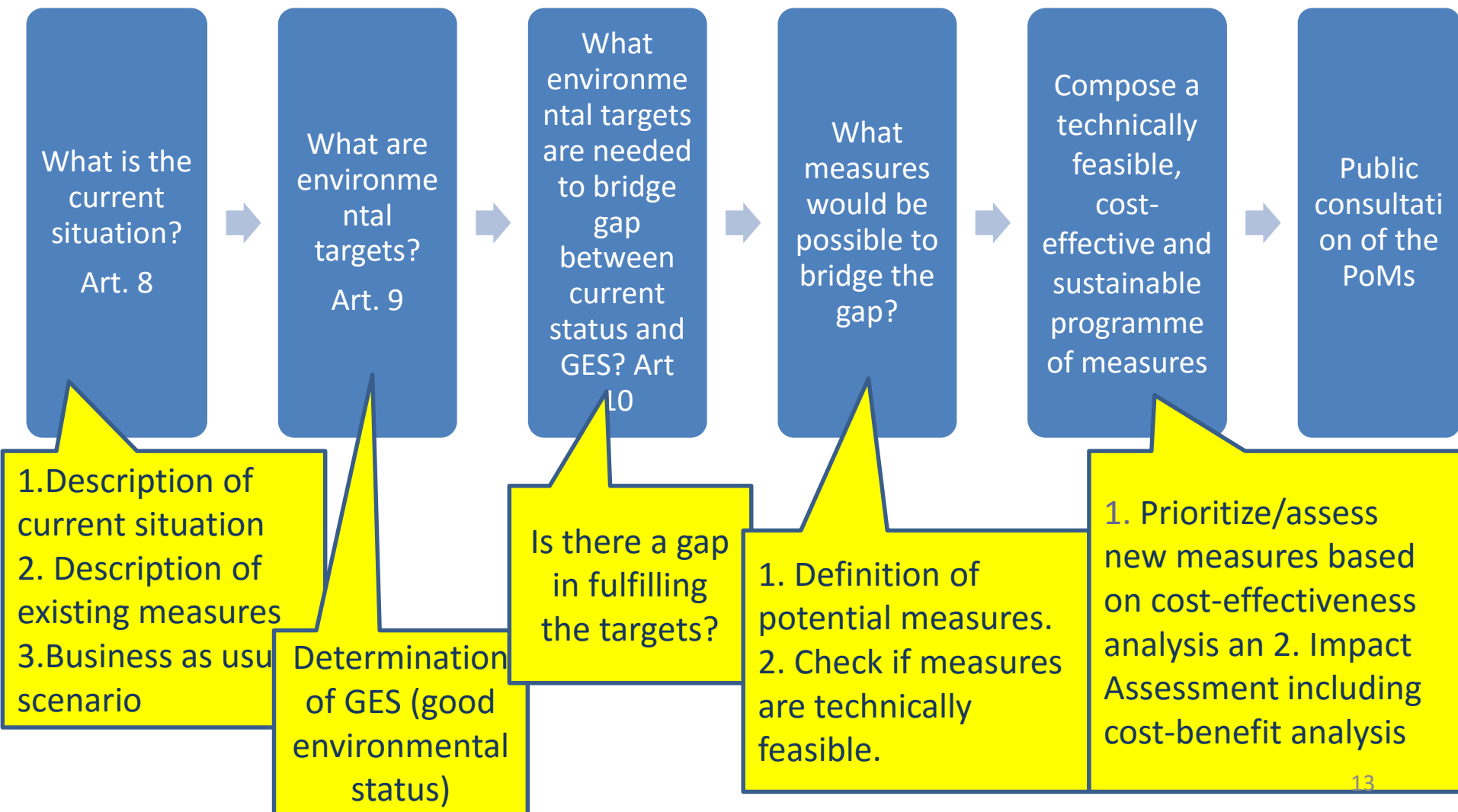
2. DESCRIBE IN QUALITATIVE TERMS AND, IF POSSIBLE, IN QUANTITATIVE TERMS THE COST OF DEGRADATION OF THE MARINE ENVIRONMENT (3)

3. Assess costs of [non]-degradation of the sea environment, i.e. how much does it cost to implement measures to maintain current status

CHALLENGES

- There are no good methods to assess the role of the seas in a State's economy and society's life in monetary terms
- Values (non-use values), which cannot be expressed in money, may be very important.

RECOMMENDATIONS FOR IMPLEMENTATION AND REPORTING. PROGRAMMES OF MEASURES UNDER THE MARINE STRATEGY FRAMEWORK DIRECTIVE



RECOMMENDATIONS FOR PROGRAMMES OF MEASURES UNDER THE MSFD

Adopted on 25 November 2014

PoMs should contain:

1. Overview of existing measures. Categories

1a (adopted and implemented) and

1b (adopted, but not implemented)

2. New measures.

2a (Additional measures to achieve and maintain GES which build upon existing implementation processes regarding other EU legislation and international agreements but go beyond what is already required under these)

2 b (Additional measures to achieve and maintain GES which do not build on existing EU legislation or international agreements.)

3. Method for selecting measures.

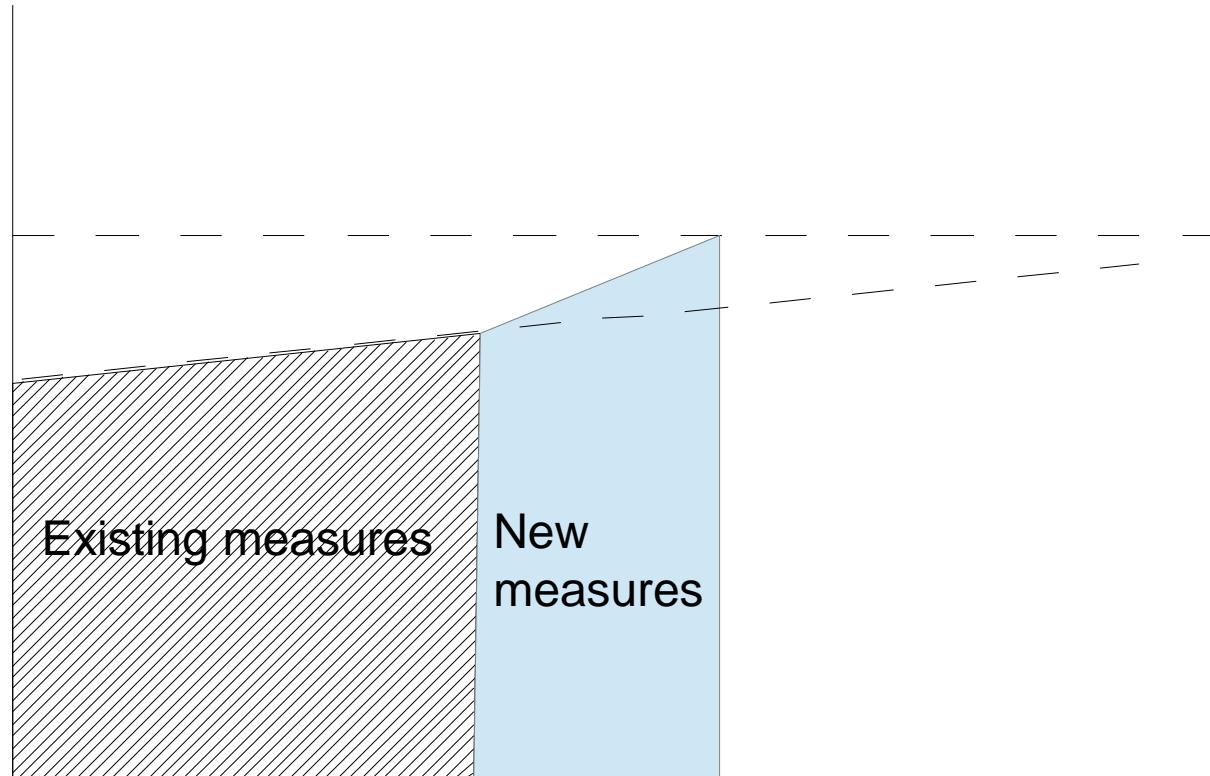
RECOMMENDATIONS FOR PROGRAMMES OF MEASURES UNDER THE MSFD

- 3. Funding of measures**
- 4. Identification of spatial protection measures** and the purpose for which they are put in place (e.g. contributing to coherent and representative networks of marine protected areas art. 13.4)
- 5. Selection of measures in accordance with the cost-effectiveness and/or cost benefit analysis**
- 6. Overall coordination or input to other EU legislation** and policies (including international agreements)
- 7. Overall regional coordination** including possible impacts on the waters of other countries (art. 13.8)
- 8. Public consultation information.**

RECOMMENDATIONS FOR PROGRAMMES OF MEASURES UNDER THE MSFD

„There should be a direct link between the proposed measures and the established national targets. Where relevant it is possible that measures may address several descriptors / targets / pressures / economic sectors / activities. “

EXISTING AND NEW MEASURES AND ACHIEVEMENT OF THE GES



Source:

TYPES OF MEASURES

- Traditional command and control
- Economic
- Social
- Technical, technological



INDICATIVE LIST OF USEFUL INFORMATION FOR NEW MEASURES

- Link to descriptor
- Link to GES and environmental targets (local and (sub)regional)
- Link to pressure
- Geographic scale of application (e.g. local, national, (sub)regional)
- Expected effects
- Implementation (e.g. by legal, policy, or financial instrument) including responsibilities, timing and financing
- Coordination with the implementation of other EU legislation
- Costs and benefits
- Regional coordination

CHALLENGES

- 1) Not sufficient information about descriptors
- 2) Difficult to related descriptors to drivers, pressures etc.; complex marine ecosystems

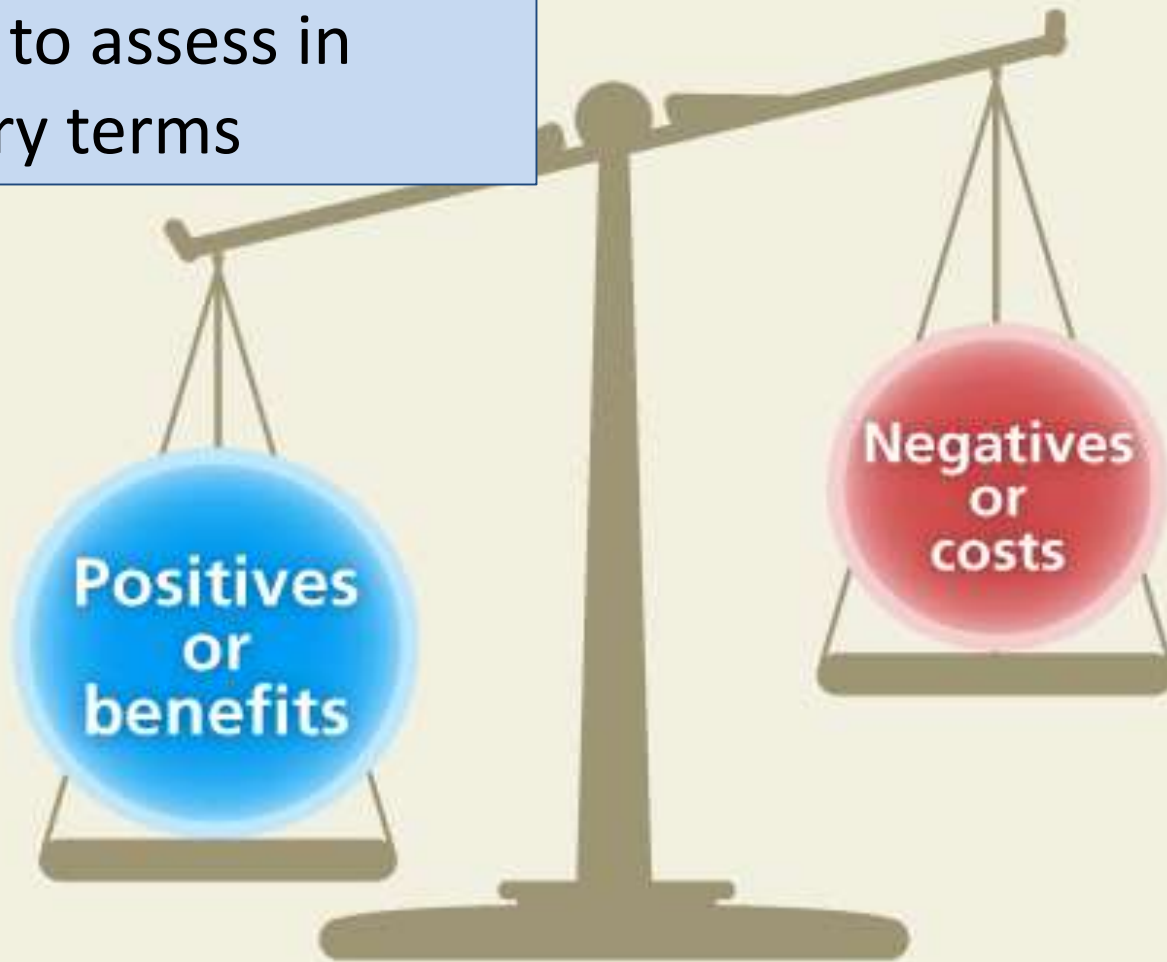


Not clear
effects of
measures

- 3) Not sufficient monitoring
- 4) Not sufficient internal and/or international cooperation etc.

5) Cost-benefit analysis

Difficult to assess in monetary terms



EXAMPLE OF POSSIBLE SOLUTION

Half-quantified classification of measures

- If there is no monetary assessment or it is very unreliable
- Suitable when there is no quantified effect

		Effectiveness				
		5	4	3	2	1
Costs	1	3	3	2	1	1
	2	3	3	3	2	1
	3	4	4	3	2	2
	4	5	4	3	3	3
	5	5	5	4	3	3



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Tesekkür ederim!

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