



MARINE STRATEGY FRAMEWORK DIRECTIVE (2008/56/EC) (MSFD) IN SLOVENIA AND SUB-REGION ADRIATIC SEA – 1st CYCLE

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I. STATE OF PLAY – IMPLEMENTATION OF MSFD IN SLOVENIA

Initial assessment

- Main features and characteristics
- Predominant pressures and impacts
- Socio-economic analysis



2012
/2013

Definition of good environmental status (GES)

Definition of environmental targets (ENV TARG)

Monitoring programmes

- Eight monitoring sub-programmes



2014

Programme of measures

- Eight main groups of measures with activities – in progress .



2017

II. FINDINGS ON IMPLEMENTATION OF MSFD IN SLOVENIA

Initial assessment

- Main features and characteristics
- Predominant pressures and impacts
- Socio-economic analysis



2012
/2013

Definition of good environmental status (GES)

Definition of environmental targets (ENV TARG)

Monitoring programmes

- Five Programmes and Eight sub-programmes



2014

Programme of measures

- Eight main groups of measures with activities



2017

II. FINDINGS OF IMPLEMENTATION OF MSFD IN SLOVENIA

II.1 Summary of assessment (*EC Report on MSFD implementation) – IA, GES, ENV. TAR.

Descriptors	Initial assessment	Good environmental status	Environmental targets
D1 – Biodiversity	+	+	+
D2 – Non-indigenous species	-	+	+
D3 – Commerical fish and shellfish	+	+	-
D4 – Food web	-	+	-
D5 - Eutrophication	+	++	++
D6 - Seabed	-	+	-
D7 – Hydrographical conditions	-	-	-
D8 - Contaminants	+	-	+
D9 – Contaminants in Fish and Seafood	+	+	+
D10 –Marine Litter	+	++	+
D11 – Introduction of energy	+	++	-

Keys	Meaning
+++	Good practice
++	Adequate
+	Partially adequate
-	Inadequate



II. FINDINGS OF IMPLEMENTATION OF MSFD IN SLOVENIA

II.2 Key findings (*EC Report on MSFD implementation) – IA, GES, ENV. TARG.

Initial assessment

- ... is mainly descriptive (but there is a fair attempt to quantify some elements).

Definition of good environmental status (GES)

- An approach used to define GES varies. For some descriptors GES was defined at descriptor level, in other cases was defined at both descriptor and criteria level.

Definition of environmental targets (ENV. TARG.)

- ... were defined for all descriptors, and divided in environmental objectives (focus on reduction of pressure or impacts) and operational objectives (focus on the development of indicators of the gathering indicators).
- BUT many of env. targ. were interim ones, with various elements still need to be developed (e.g. method for assessment, baseline and propotion of areas affected).



II. FINDINGS OF IMPLEMENTATION OF MSFD IN SLOVENIA

Initial assessment

- Main features and characteristics
- Predominant pressures and impacts
- Economic and social analyzes



2012
/2013

Definition of good environmental status (GES)

Definition of environmental targets (ENV TARG)

Monitoring programmes

- Eight monitoring sub-programmes



2014

Programme of measures

- Eight main groups of measures with activities



II. FINDINGS OF IMPLEMENTATION OF MSFD IN SLOVENIA

II.3 Summary of assessment (*EC Report on MSFD implementation) - MONITORING

Descriptors/Monitoring sub-programmes	Good environmental status	Environmental targets
D1, 4 Birds	- (!)	- (!)
D1,4 Mammals	- (!)	- (!)
D1, 4 Fish (non-commercial)	- (!)	- (!)
D1, 4 Water column	+	-
D1, 4, 6 Seabed	+	-
D2 Non-indigenous species	+ (!)	+ (!)
D3 Commercial fish	+	-
D5 Eutropication	+	+
D7 Hydrograp. changes	+	-
D8 Contaminants	+	-
D9 Seafood contaminants	+ (!)	+ (!)
D10 Marine litter	+	+
D11 Energy/Noise	- (!)	- (!)

Keys	Meaning
+++	Full coverage
+	Partially coverage
+(!)	Partially coverage – new information after official reporting to EC
-	No coverage – not sufficient to assess the progress of MSFD implementation
(!)	Some projects were done, but monitoring on national level has not applied yet.





II. FINDINGS OF IMPLEMENTATION OF MSFD IN SLOVENIA

II.4 Key findings (*EC Report on MSFD implementation) - MONITORING

Monitoring sub-programmes

- ... no monitoring on national level for birds, mammals, reptiles, non-commercial fish and cephalopods. Data were collected only through projects.
- ... no monitoring programmes to cover pressures of fisheries on marine environment (seabed habitats) and no monitoring of additional species (fish) that are not covered under MEDTIS (Mediterranean International Bottom Trawl Survey),
- ... no monitoring programmes to assess impacts and effects of contaminants, marine litter and level of energy/underwater noise on marine biota.





III. WHERE ARE WE IN SUB-REGION (ADRIATIC S.) IN MSFD IMPLEMENTATION?

III.1 Summary of assessment – sub-region Adriatic Sea (*EC Report on MSFD implementation) - IA

Descriptors	Initial assessment (IA)		
	SI	CRO	IT
D1 – Biodiversity	+	? (not reported)	+
D2 – Non-indigenous species	-	+	+
D3 – Commercial fish and shellfish	+	+	+
D4 – Food web	-	? (not reported)	+
D5 - Eutrophication	+	+	+
D6 - Seabed	-	? (not reported)	+
D7 – Hydrographical conditions	-	-	++
D8 - Contaminants	+	+	-
D9 – Contaminants in Fish and Seafood	+	++	? (not reported)
D10 – Marine Litter	+	-	+
D11 – Introduction of energy	+	-	? (not reported)

Keys	Meaning
+++	Good practice
++	Adequate
+	Partially adequate
-	Inadequate



III. WHERE ARE WE IN SUB-REGION (ADRIATIC S.) IN MSFD IMPLEMENTATION?

III.2 Summary of assessment – sub-region Adriatic Sea (*EC Report on MSFD implementation) - GES

Descriptors	Good environmental status (GES)		
	SI	CRO	IT
D1 – Biodiversity	+	+	+
D2 – Non-indigenous species	+	-	+
D3 – Commerical fish and shellfish	+	+	+
D4 – Food web	+	+	-
D5 - Eutrophication	++	+	+
D6 - Seabed	+	-	+
D7 – Hydrographical conditions	-	-	+
D8 - Contaminants	-	-	+
D9 – Contaminants in Fish and Seafood	+	-	+
D10 –Marine Litter	++	-	-
D11 – Introduction of energy	++	-	-

Keys	Meaning
+++	Good practice
++	Adequate
+	Partially adequate
-	Inadequate



III. WHERE ARE WE IN SUB-REGION (ADRIATIC S.) IN MSFD IMPLEMENTATION?

III.3 Summary of assessment – sub-region Adriatic Sea (*EC Report on MSFD implementation) – ENV. TARG.

Descriptors	Environmental targets (ENV. TARG.)		
	SI	CRO	IT
D1 – Biodiversity	+	+	-
D2 – Non-indigenous species	+	+	-
D3 – Commerical fish and shellfish	-	+	-
D4 – Food web	-	+	-
D5 - Eutrophication	++	+	-
D6 - Seabed	-	+	? (not reported)
D7 – Hydrographical conditions	-	-	-
D8 - Contaminants	+	-	-
D9 – Contaminants in Fish and Seafood	+	-	? (not reported)
D10 – Marine Litter	+	+	+
D11 – Introduction of energy	-	++	? (not reported)

Keys	Meaning
+++	Good practice
++	Adequate
+	Partially adequate
-	Inadequate





III. WHERE ARE WE IN SUB-REGION (ADRIATIC S.) IN MSFD IMPLEMENTATION?

III.4 Summary of assessment – sub-region Adriatic Sea (*EC Report on MSFD implementation) – MONITORING.

Descriptors/ <u>Monitoring sub-programmes</u>	Good environmental status			Environmental targets		
	SI	CRO	IT	SI	CRO	IT
D1, 4 Birds	-(!)	+	+	-(!)	+	+
D1,4 Mammals	-(!)	+	+	-(!)	+	+
D1, 4 Fish (non-commercial)	-(!)	+	+	-(!)	+	+
D1, 4 Water column	+	+	+	-	+	+
D1, 4, 6 Seabed	+	+	+	-	+	+
D2 Non-indigenous species	+(!)	+	+	+(!)	+	+
D3 Commercial fish	+	+	+++	-	+	+
D5 Eutropication	+	+	+	+	+	+
D7 Hydrograp. changes	+	+	+++	-	-	+++
D8 Contaminants	+	+	+	-	+	+
D9 Seafood contaminants	+(!)	+++	+	+(!)	+	+
D10 Marine litter	+	+	+++	+	+	+++
D11 Energy/Noise	-(!)	+	+++	-(!)	+	+

Keys	Meaning
+++	Full coverage
+	Partially coverage
+(!)	Partially coverage – new information after official reporting to EC
-(!)	Some projects were done, but monitoring on national level has not applied yet.
-	No coverage – not sufficient to assess the progress of MSFD implementation



III. WHERE ARE WE IN SUB-REGION (ADRIATIC S.) IN MSFD IMPLEMENTATION?

III.5 Key findings – sub-region Adriatic Sea (*EC Report on MSFD implementation) - MONITORING

- Some countries not reported on initial assessment for all descriptors (e.g. D1, D4, D9, D10), mainly because of lack of data.
- GES, where was defined, was:
 - prepared at different levels, and
 - not for all descriptors in the same manner,
 - varies between countries.
- Some countries defined environmental targets, some not. Those countries who defined env. targets:
 - prepared it at different levels, and
 - not for all descriptors in the same manner,
 - varies between countries.
- Monitoring programmes:
 - are not sufficient to assess the progress of MSFD implementation (*the aim of MSFD implementation is to achieve a good status of the marine environment by 2020), and
 - varies between countries.

IV. WAY FORWARD TO IMPROVE MSFD IMPLEMENTATION

It is necessary to improve a cooperation between countries in sub-region Adriatic Sea to:

- improve the knowledge of marine environment (* none of the countries in the sub-region Adriatic Sea reported all relevant data to implement MSFD appropriate; mainly because of lack of data and/or non developed methodologies to prepare IA and to define GES and env. targ. more specifically),
- improve monitoring (sub)programmes (* none of the countries in the sub-region Adriatic Sea reported all relevant monitoring (sub)programmes; mainly because of lack of proper and harmonized methodologies for marine environment monitoring (*aim is to assess a state of marine environment and pressures on it),
- prepare a coordinated marine strategies for 2nd cycle of MSFD implementation in the sub-region Adriatic Sea to:
 - o achieve the main goal of MSFD (*a good environmental status in EU marine waters by 2020) and,
 - o provide a good basis for sustainable development in the sub-region (e.g. Blue Growth) (*notice: MSFD is an environmental pillar of maritime and fisheries EU policies).





Thank You For Your Time
And Attention