



Bu proje Avrupa Birliği 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

Training on Fundamental Concepts and Processes of the Marine Strategy Framework Directive Antalya, 7-11 November 2016

**Black Sea:
application of ecosystem approach
and challenges of MSFD implementation**

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



NIRÁS



Bucharest Convention (1)



Bucharest Convention (2)



Convention on the Protection of the Black Sea Against Pollution

- Was signed in **Bucharest** in April **1992**;
- Ratified by all six Black Sea Countries in the beginning of **1994**;
- Its basic objective is to substantiate the general obligation of the Contracting Parties **to prevent, reduce and control the pollution in the Black Sea** in order to **protect and preserve the marine environment** and to **provide a legal framework for co-operation and concerted actions** to fulfil this obligation.

Bucharest Convention (3)



It has 4 thematic Protocols:

1. Protocol on the Protection of the Black Sea Marine Environment Against Pollution from **Land Based Sources (LBS Protocol)**;
 2. Protocol on the Protection of the Black Sea Marine Environment Against Pollution by **Dumping**;
 3. Protocol on Cooperation in Combating Pollution of the Black Sea Marine Environment by **Oil and Other Harmful Substances in Emergency Situations**;
 4. The Black Sea **Biodiversity and Landscape Conservation Protocol (CBD Protocol)**.
- **Strategic Action Plan (SAP)** on the Protection and Rehabilitation of the Black Sea – adopted in **1996** and amended in **2009**.








Bucharest Convention (4)



6 Advisory Groups

- The Advisory Groups to the Black Sea Commission are the **main source of expertise, information and support** in the implementation of the Black Sea Strategic Action Plan.
- 1. **ESAS** – Advisory Group on the Environmental **Safety Aspects of Shipping**;
- 2. **PMA** – Advisory Group on the **Pollution Monitoring and Assessment**;
- 3. **LBS** – Advisory Group on Control of **Pollution from Land Based Sources**;
- 4. **ICZM** – Advisory group on the Development of Common Methodologies for **Integrated Coastal Zone Management**;
- 5. **CBD** – Advisory Group on the **Conservation of Biological Diversity**;
- 6. **FOMLR** – Advisory Group on the Environmental Aspects of the **Management of Fisheries** and other Marine Living Resources.

Black Sea Commission

The Commission for the Protection of the Black Sea Against Pollution						
Permanent Secretariat						
Advisory Groups						
AG ESAS	AG PMA	AG LBS	AG ICZM	AG CBD	AG FOMLR	AG IDE
Environmental Safety Aspects of Shipping (AG ESAS)	Pollution Monitoring and Assessment	Control of Pollution from Land Based Sources	Development of the Common Methodologies for Integrated Coastal Zone Management	Conservation of Biological Diversity	Environmental Aspects of Fisheries and Other Marine Living Resources Management	Information and Data Exchange
Regional Activity Centers						
Environmental Safety Aspects of Shipping (AC ESAS), <u>Varna, Bulgaria</u>	Pollution Monitoring and Assessment (AC PMA), <u>Odessa, Ukraine</u>	Control of Pollution from Land Based Sources (AC LBS), <u>Istanbul, Turkey</u>	Development of Common Methodologies for Integrated Coastal Zone Management (AG ICZM), <u>Krasnodar, Russian Federation</u>	Conservation of Biological Diversity (AC CBD), <u>Batumi, Georgia</u>	Environmental Aspects of Fisheries and Other Marine Living Resources Management (AG FOMLR), <u>Constanta, Romania</u>	Information and Data Exchange (AC IDE), <u>Permanent Secretariat, Istanbul, Turkey</u>
						
National Focal Points						
Bg, Ge, Ro, Ru, Tr, Ua	Ua, Bg, Ge, Ro, Ru, Tr	Tr, Bg, Ge, Ro, Ru, Ua	Ru, Bg, Ge, Ro, Tr, Ua	Ge, Bg, Ro, Ru, Tr, Ua	Ro, Bg, Ge, Ru, Tr, Ua	Bg, Ge, Ro, Ru, Tr, Ua

Bucharest Convention (5)



Ongoing collaboration with relevant **Multilateral Environmental Agreements (MEAs)**,
UN Agencies and International Financial Institutions (IFIs)

Mutual **Observer Relations** with 9 International and Public Organizations:

- **UNEP** - United Nations Environmental Program;
- **EU** - European Union;
- **GEF/UNDP** - Global Environmental Facility/United Nations Development Program;
- **IMO** - International Maritime Organization;
- **ICPDR** - International Commission on the Protection of Danube River;
- **BSEC** - Black Sea Economic Cooperation;
- **ACCOBAMS** Agreement on Conservation of Cetaceans;
- **Black Sea Port State Control MoU**;
- **Black Sea NGO Network**.

Currently **deepening cooperation** with the Secretariats of European RSCs:

- **UNEP/MAP** - Mediterranean Action Plan; HELCOM ; OSPAR.
- MoUs with **IMO, ACCOBAMS** (Conservation Plan for Black Sea Cetaceans), **UN General Fisheries Commission for Mediterranean and Black Sea, International Atomic Energy Agency** etc.
- New joint initiatives with **IMO** and **Tehran Convention** on Ballast Water Management, invasive species. Contingency Planning and other relevant projects with possible involvement of IFIs.

Bucharest Convention (6)



- ▶ **Strategic Action Plan (BS SAP)** on the Protection and Rehabilitation of the Black Sea (2009):

Item 3.1 Key management approaches.

The Black Sea SAP will adhere to 3 key environmental management approaches. These are:

- Integrated Coastal Zone Management (ICZM);
- **The Ecosystem Approach; and**
- Integrated River Basin Management (IRBM).

The BS SAP was elaborated from consensus reached at a multinational level in relation to a series of proposals that include: **Ecosystem Quality Objectives (EcoQOs)**; short, medium and long term targets; and legal and institutional reforms and investments necessary to solve main environmental problems identified within the 2007 BS TDA.

BS SAP 2009

Four Ecosystem Quality Objectives:

1. *Preserve commercial **marine living resources** through:*
 - *Sustainable use of commercial fish stocks and other marine living resources*
 - *Restore/rehabilitate stocks of commercial marine living resources*

2. *Conservation of Black Sea **Biodiversity and Habitats** through:*
 - *Reduction of risk of extinction of threatened species*
 - *Conservation of coastal and marine habitats and landscapes*
 - *Reduction and management of human mediated species introductions*

3. *Reduce **eutrophication** through:*
 - *Reduction of nutrients originating from land-based sources, including atmospheric emissions*

4. *Ensure **Good Water Quality** for Human Health, Recreational Use and Aquatic Biota through:*
 - *Reduction of pollutants originating from land-based sources, including atmospheric emissions*
 - *Reduction of pollutants originating from shipping activities and offshore installations*

Strategic Action Plan for the Environmental Protection
and Rehabilitation of the Black Sea (BS SAP 2009):

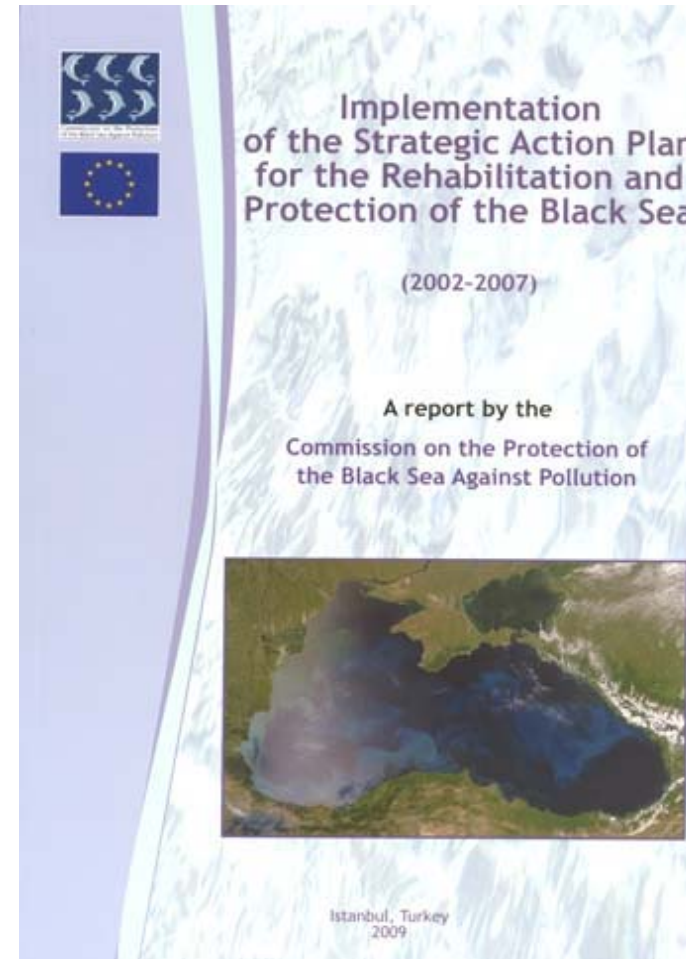
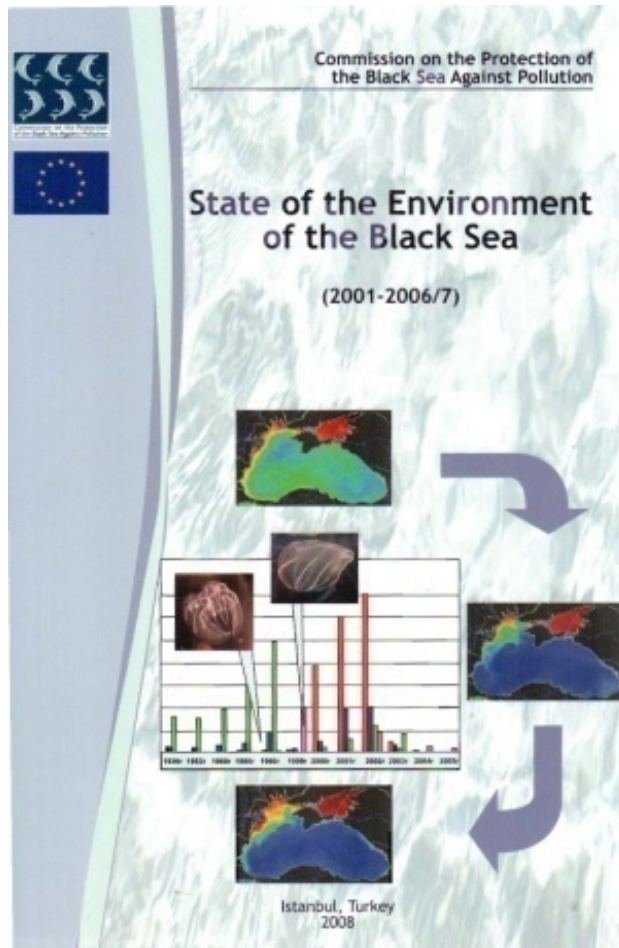
- provides a **brief overview of the current status of the Sea** (Black Sea Transboundary Diagnostic Analysis (BS TDA 2007) and progress of the original BS SAP 1996;
- **reorganizes the priorities and actions** therein considering the progress in the region and the current state of the environment;
- **describes the policy actions** required to meet the major environmental challenges now facing the Sea, and **includes a series of management targets**;
- **recognizes the same environment threats as those identified by the MSFD** (loss/degradation of biodiversity/habitats, contamination by dangerous substances/nutrients and impacts of climate change), however, **sets no environment targets, but only operational** according to four Ecosystem Quality Objectives.

Bucharest Convention (7)



- ▶ Bucharest Convention was elaborated 25 years ago, latest version of BS SAP is dated 2009, some new challenges as **climate change, marine litter, marine noise, green economy, MSFD requirements (definition of GES)** etc. were not reflected;
- Work to incorporate these considerations in the documents of the Bucharest Convention (**text of Convention, BS SAP, BSIMAP etc.**);
- Relevant chapters of **Black Sea SoE** and **SAPIR** include socio-economic aspects and new challenges;
- 30 datasets contribute to the indicators relevant to MSFD which are hosted by BSC and **Regional Activity Centre for Pollution Monitoring and Assessment (PMA RAC)**, **activities shall be sustained.**

SoE and SAPIR



Progress (1)



- **Short format of reporting** elaborated and adopted (based on indicators agreed by consensus (E-TRIX, BEAST, H-Shannon 95 (biomass), Landings per unit of effort etc., compatible with MSFD, GFCM, ACCOBAMS and global approach to indicators (UNEP) and SDGs);
- text of the Black Sea Integrated **Monitoring and Assessment Program** - BSIMAP for years 2017-2022 **was adopted in October 2016!!!** (drafted within EU MSFD Project, main approaches are harmonized, definition of GES and descriptors, reporting format to ICPDR, data-bases for harmonization);
- First Report on the Implementation of the (amended) BS SAP (2009) – **SAPIR and “State of the Black Sea Environment” Report – SoE** (outlines reflect the MSFD requirements and global approach);

Progress (2)



- Work on incorporation of deliverables of **relevant projects** (EMBLAS, DEVOTES, PERSEUS, IRIS-SES, EMODNET, Baltic2Black, MSFD, MISIS etc.);
- Signature of the **MoU between UNEP/MAP** and BSC PS – project on monitoring of Marine Litter;
- **Cooperation with UNEP:**
 - 17th Global Meeting of Regional Seas was hosted in Istanbul by the BSC (October, 2015)
 - Work in Working Group on global indicators
 - implementation of marine litter related activities under the BSC PS - UNEP Small Scale Funding Agreement.

Draft BSIMAP 2017-2022 (1)



- **Draft Black Sea Integrated Monitoring and Assessment Program (2015-2020):**
- is foreseen in Article XV of the Bucharest Convention;
- based on **national monitoring programs** financed by the Black Sea states and **thematic scientific surveys** carried out in the frames of different projects, financed by national authorities and/or donors (UNEP, UNDP/GEF, EC, UN FAO and others);
- employs the **DPSIRR** (Drivers, Pressures, State, Impact, Response, Recovery) model;
- **choice of parameters to monitor** is related to the SoE and SAPIR reports.

Draft BSIMAP 2017-2022 (2)



- Content

- List of abbreviations
- Preamble
- Definitions

- Legal Basis

- Assessments
- Black Sea Environmental Monitoring Program
- Quality Assurance/Quality Control (QA/QC)
- Black Sea Information System (BSIS)
- Timeframe for Implementation of the Black Sea Integrated Monitoring and Assessment Program for years 2015-2020
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- Annex 2 Relevant data-bases for possible future harmonization with BSIS
- Annex 3 Proposed organizational scheme and time-table for preparation of the assessment reports

- Annex 4 **BSIMAP Reporting format** (to be added when revised by the BSC and Advisory Groups (AGs))

- Annex 5 List of the Black Sea Guidelines and Manuals
- Annex 6 List of Black Sea priority substances
- Annex 7 Environmental Quality Standards for Priority Substances and certain other pollutants

- Annex 8 Substances subject to review for possible identification as priority substances or priority hazardous substances
- Annex 9 Priority thematic studies to be implemented in 2015-2020. Subjects for international and national research projects
- Annex 10 **BSC - ICPDR Reporting format**

Draft BSIMAP 2017-2022 (3)



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Draft BSIMAP 2017-2022 (4)



- **EcoQO 1** Preserve commercial marine living resources
- **EcoQO 1b** Sustainable use of commercial fish stocks and other marine living resources
- **Descriptor** - populations of all commercially exploited fish and shellfish are within safe biological limits, exhibiting a population age and size distribution that is indicative of a healthy stock
- **Interim Target** - Increasing trends in the stocks of commercial predator species
- **Ultimate Target** -Reduction of fishing mortality
- **Preparatory actions** - Revise Annex 2 and Annex 4 to the Black Sea Biodiversity and Landscape Conservation Protocol; Harmonize data collection and stock assessment methodologies; Agree on indicators (develop and/or apply); Relate pressures/impacts; Others (to be specified by the FOMLR AG)
- **Additional monitoring and data/information collection** - Aquaculture; Harmonized Total Allowable Catches (TACs); Illegal, Unreported and Unregulated fishery (IUU); Use of destructive equipment; Maximum sustainable yield; Non-compliance with regulations (admissible size, fishing-free zones and periods etc.); Restructuring of fishing fleet; Development of control and compliance road map (i.e. VMS); Others (to be specified by the FOMLR AG)
- **Data Products** - Criteria for assessments, indicators, trends, manuals, guidelines, etc.

BSIMAP 2017-2022 (5)



- **Agreed PMA Indicators:**

- **E-trix**

- **Oxygen Saturation in Bottom waters**

Saturation of oxygen in bottom layer in late summer times

- **Inorganic N, P, Si in the surface layer in late winter time**

- **Inorganic N per Inorganic P in upper layer (1 m from surface)**

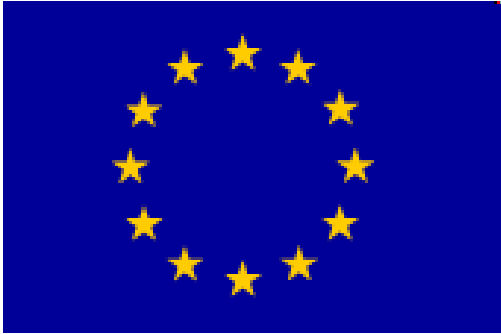
- **$N_{\text{inorganic}}/\text{Si}$**

- **Inorganic N per Si in upper layer (1 m from surface)**

- **BEAST**

Core set indicators grouped as causes - inorganic nitrogen, inorganic phosphorus (phosphates), direct effects - chlorophyll a , indirect effects - bottom oxygen (where available), Secchi.

(To be defined by each country **according to its reference values** – within B2B each country had an expert who worked for BSC)



EU-BSC relations:

- *EU members in the BS basin (Romania and Bulgaria), GE, TR and UA associated agreements and work on approximation to EU legislation;*
- *Mutual observer status since 2001*
- *Projects (direct and FP7 Projects, HORIZON 2020)*
- *Indirect cooperation (ICPDR, UNEP/MAP etc.)*
- *Wish of EU to become a party to Bucharest Convention*

Mutual observer status:

- *the EU here is represented by the EC DG Environment;*
- *the observer status was granted at the 7th Regular BSC Meeting in May, 2001;*
- *Commissions are able to be present and to contribute at each other's meetings and activities;*
- *no particular Memoranda of Understanding signed between the two Commissions, in terms of the implementation of joint activities, but a Grant Agreement or a Contribution Agreement is always signed for each and every project.*



*Areas of cooperation with EU
through various projects:*

- *Cooperation in the development of the EU Marine Strategy;*
- *Support to the BSC in the implementation of the EU Marine Strategy;*
- *Collaboration in the harmonization with the related EU Directives (WFD and MSFD) in the Black Sea region;*
- *Gap analysis of the implementation of the BS SAP (2009);*
- *Black Sea component of the DABLAS Investment Projects Database;*
- *MONINFO Project: Environmental Monitoring of the Black Sea Basin and Monitoring and Information Systems for Reducing Oil Pollution and EU Marine Strategy Project;*
- *Relevant EU FP7 Projects.*

Cooperation with ICPDR

One of our main partners, we also have **mutual observer status** since 2001 and we **implement the MoU** between our Commissions.

The Danube – Black Sea Joint Technical Working Group was established between our Commissions. The main objectives are the following:

- **Information Exchange** between ICPDR and the Black Sea Commission (including Marine Directive Reporting);
- Exchange of **data on loads of pollution from the Danube** to the Black Sea as provided by the Transnational Monitoring Network of the ICPDR (set of parameters agreed);
- Exchange of data on indicators for the **assessment of the ecological status of the Black Sea** (reporting format and method of analysis for the data, because both Romania and Bulgaria have designated coastal water bodies, monitoring and assessment of these water bodies has been carried out in connection with the obligations under the WFD);
- **Harmonizing of the assessment methodologies** for point and diffuse pollution (based on the ICPDR experience on the Emission inventories, Hot Spots analysis and review of ranking methodologies).

Intention of EU to become a member to Bucharest Convention:

- *The Bucharest Convention has never foreseen the possibility to take on board the **Regional Economic Integration Organizations (REIO)** such as the European Union (EU).*
- *After the latest EU enlargement in 2007, the EU reached the Black Sea through its new members, **Romania and Bulgaria**.*
- *The **proposal to consider the accession of EU** as an equal Contracting Party came from Romania and Bulgaria and was presented at the 13th Regular Meeting of the Black Sea Commission followed by the submission to the Depository of the Bucharest Convention during the Ministerial Meeting/Diplomatic Conference held in Sofia back to April, 2009.*
- *the European Community (EC) is a Party to the regional water and sea conventions relating to the **Danube River, Baltic Sea, the Mediterranean and the North East Atlantic**, by virtue of certain procedural provisions contained in such conventions. In the case of Bucharest Convention **some amendments to the official text** of the Convention are needed.*

Interaction of BSC documents and related EU legislation:

The **provisions of the MSFD** related to the:

- The **Black Sea** as such
- Regional Seas Conventions (incl. **Bucharest Convention**)
- Comparison or coherence with **international organizations or agreements**
- **Transboundary impacts** on marine environment
- Relations with **third countries**

Conclusions:



- The **proper implementation** of the BSIMAP 2017-2022 will allow to **unify the set of core indicators and compliance** with national, regional and international requirements (BS national legislation, MSFD provisions, BS SAP 2009 etc.);
- Help to **avoid ambiguities of the integrated monitoring** in BS countries, **amend the BS SAP 2009** and possibly text of Bucharest Convention, **assist Ukraine, Georgia and Turkey in approximation** to the European environmental legislation;
- Meanwhile MSFD-related Projects play their crucial role in **assisting BG and RO in reporting** under MSFD requirements ensuring **unification of approaches** between the regional seas and cooperation with RSC Secretariats, application of **best practices**, as well as introduction of **new tools for marine assessment** in the Black Sea;
- **MSFD-related Projects** help to a large extent to deepen our cooperation and **exchange of experience with other RSCs and BSC observers/partners**, as well as provided **concrete tools** for monitoring and assessment of environment, implementation of MSFD provisions and GES achievement.
- At the same time, proper **sustainability of project deliverables** should be ensured, BSC PS stands ready to ensure that the results are taken into account and supported by experts in the Black Sea basin.



Thank you for your kind attention!

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Sunumumuz sona ermiřtir, ilginiz iin teřekkr ederiz.

Our presentation is finished, thank you for listening.



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