



# **Black Sea Commission:**

## **requirements, needs and feedback**

INMS-3, Edinburgh, 16th April

# Bucharest Convention (1)



# Bucharest Convention (2)



- ▶ 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)** in Odessa (Ukraine), **activities shall be sustained.**

# 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);
- ▶ Black Sea Integrated **Monitoring and Assessment Program** - BSIMAP for years 2017-2022 (drafted within EU MSFD Project, main approaches are harmonized, definition of GES and descriptors, reporting format to ICPDR, data-bases for harmonization, priority studies) **was adopted in October, 2016**;
- ▶ First Report on the Implementation of the (amended) BS SAP (2009) - **SAPIR and** “State of the Black Sea Environment” Report - **SoE** are **being drafted** - thanks to EMODNet Project.

# Progress (2)



- ▶ Work on incorporation of deliverables of **relevant projects** (EMBLAS, DEVOTES, PERSEUS, IRIS-SES, EMODNET, Baltic2Black, MSFD, MISIS etc.);
- ▶ Implemented **SSFA of UNEP on Marine Litter** – draft RAP on ML and ML Monitoring Guidelines;
- ▶ Signature of the **MoU between UNEP/MAP** and BSC PS – project on ML (**ML monitoring programme** for BS);
- ▶ Signature of **Practical Arrangements with IAEA** on **QA/QC** (cooperation in the Area of Strengthening Data Quality Assurance in the Analysis of Contaminants in the Black Sea Marine Environment, first results of the PT in 2016 6 and 12 BS labs participated in the proficiency tests already!!!)

# Indicators for short reporting:



- ▶ During the 31<sup>st</sup> BSC Regular meeting the BSC adopted the **6 tables** reflecting the **indicators for annual reporting to the Black Sea Commission**, elaborated and agreed by the members of the all six Advisory Groups of the Black Sea Commission during their regular meetings in 2015.
- ▶ The data is **based on existing AG annual reporting formats**, and also takes into account the **new environmental challenges and legislation**, as well as approaches introduced by relevant global and regional organizations (i.e. provisions of EU MSFD; GFCM; ACCOBAMS etc.)



## Agreed PMA Regional Reporting Indicators:



Agreed Indicators	Explanation	Comments
<b>Trix</b>	$\text{TRIX} = [\log (\text{Chl} \times \text{D}\%O_2 \times \text{Nmin} \times \text{Ptot.}) + k] / m *$	K=1.5 and m=1.2 are constant use particularly for Northern Adriatic. For Black Sea could be necessarily to calculate another.
<b>Oxygen Saturation level at critical depth</b>	<ol style="list-style-type: none"> <li>1) in bottom layer in coastal waters (up to 50m depth) in late summer times</li> <li>2) for deep water column sigma-T equals to 15,4-15,5 in late summer times</li> </ol>	.
<b>Inorganic N, P, Si in the surface layer</b>	Maximum concentrations in surface layer end of winter-spring	
$N_{\text{inorganic}}/P_{\text{inorganic}}$	<b>Inorganic N per Inorganic P</b> in surface layer	
$N_{\text{inorganic}}/Si$	<b>Inorganic N per Si</b> in surface layer	
<b>BEAST (Black Sea Eutrophication Assessment Tool)</b>	<b>Core set indicators grouped as causes - inorganic nitrogen, inorganic phosphorus (phosphates), direct effects - chlorophyll a , indirect effects - bottom oxygen (where available), Secchi.</b>	To be defined by each country according to its reference values – within B2B each country had an expert who worked for BSC
<b>Water transparency, where relevant</b>		

# BSIMAP 2017-2022 (2)



## ▶ Content

- ▶ Annex 1            **Black Sea Regional Monitoring Program**
- ▶ 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**



# BSIMAP 2017-2022 (4)



Annex 9

## Priority thematic studies to be implemented in 2017-2022. Subjects for international and national research projects

- ▶ **EQS 3 Reduce eutrophication:**
  - ▶ discharges of nutrients to the Black Sea;
  - ▶ BEAST tool application in the Black Sea;
  - ▶ zoning ;
  - ▶ diffuse sources assessment, atmospheric deposition;
  - ▶ remote sensing.
- ▶ **EQS 4 Ensure Good Water Quality for Human Health, Recreational Use and Aquatic Biota:**
  - ▶ 5 years socio-economic analysis of drivers-pressures;
  - ▶ Assessment of Marine Litter from ships
  - ▶ Comparative analysis and assessment of emissions from ships and LBS of pollutionGuidance/Road Map on application of principles of Ballast Water Convention (IMO) in the Black Sea;
  - ▶ Port reception facilities (PRFs) and management of waste under MARPOL Annex VI.

# BSIMAP 2017-2022 (3)



## Annex 2

### Relevant data-bases for possible future harmonization with BSIS

**GMES** - Global Monitoring for Environment and Security

**GEOSS** - Global Earth Observation System of Systems

**Eionet** - Partnership network of the European Environment Agency (EEA)

**WISE** - Comprehensive and shared European data and information management system which supports MSFD

**GOOS** - Global Ocean Observing System (Black Sea)

**EmodNET** - European Marine Observation and Data Network (Project of EC DG MARE)

**IODE** - International Oceanographic Data and Information Exchange

The other relevant databases should be inventoried and linked to BSIS as appropriate.

# Cooperation with partners:



- ▶ **Cooperation with UNEP:**
- ▶ Work in WG on global indicators together with UNEP/MAP;
- ▶ Membership in Global Partnership on ML and implementation of marine litter related activities under the BSC PS - UNEP Small Scale Funding Agreement;
- ▶ Addressing implementation of SDGs (indirectly, in cooperation with UNEP)
- ▶ The Commission joined the Group on Earth Observations (**GEO**) and BSC PS was recognized as **GEO Participating Organization** (November 2015).

# Cooperation with *EMODNet* *Chemistry*:



- ▶ The BSC PS has **become member of the EMODnet Chemistry 3 consortium** and joined a dedicated '**Board of MSFD experts**' to intensify the direct dialogue and interaction with Regional Sea Conventions (RSCs). The members of the Board of MSFD experts consist of experts in chemistry and in the MSFD implementation process;
- ▶ **BSC PS endorsed the MoU on the cooperation aimed at supporting the EMODnet Chemistry project** in data uptake by identifying and mobilizing additional data sources in the Black Sea and make efforts to contribute to the validation of EMODnet results with regional experts;
- ▶ Resolution of 33rd BSC Regular Meeting (5-6th October, 2017, Istanbul): *"The Commission welcomed the cooperation with EMODNet Initiative and endorsed the draft MoU with OGS (Italy) representing the EMODNet Chemistry III"*.

# Conclusions:



- Overall, the activities to be undertaken in the frame of this project proposal are considered of interest to the BSC PS and its expert network in the Black Sea region and beyond.
- Keeping in mind the need to establish the **International Nitrogen Management System** and its further application in the Black Sea basin, we are able to support the Towards INMS project in an advisory capacity, **as an associate partner**, specifically in relation to the planned Eastern European Demonstration (Activity 3.1).
- Whilst **we cannot currently place a co-financing value against this activity**, we anticipate to support the project in the following ways:
  - Engaging with the Eastern European Demonstration Management Group and/or Stakeholder Advisory Board by attending meetings either in person or electronically to provide advice or stakeholder views and findings;
  - Provision of relevant data and information on the Black Sea environment (where permissible);
  - Reviewing deliverables and reports from the Demonstration Management Board;
  - Disseminating products and findings from Activity 3.1, to relevant bodies within BSC and Black Sea scientific community;
  - Engaging with the wider Towards INMS project and community to ensure that the work is stakeholder focused.

# Conclusions cont.:



- ▶ The **BSC PS is taking steps** to promote regional cooperation on marine and coastal environmental issues, *inter alia*, contributing to the proper marine assessments and coordination of efforts on data-bases with other RSCs and partners;
- ▶ **Welcomes the INMS Project, appreciates cooperation and** waiting forward to receive outcomes of **collection of data** to discuss them at BSC level (AGs and BSC meetings in summer and autumn, 2018);
- ▶ The BSC PS invites the Project to take part in the **implementation of BSIMAP 2017-2022, next BS SoE 2018-2023** and implementation of **ocean-related SDGs in the Black Sea basin.**





*Thank you for your kind attention!*

For more information please visit:

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or visit our **official accounts in FB, twitter and LinkedIn!!!**

