

**Regional Meeting on NAPs
implementation – Lessons
learned and the way forward
Marseille, 17-18 October 2016**



Updated National Action Plans/POM of MONTENEGRO

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Focus of Updated NAPs/POM

- Updated NAP's operational targets and measures contribute to the fulfilment of all related EcAp GES targets by providing responses to the commitments under SAP-MED and the Regional Plans/decisions for each ecological objective - operational targets and measures in the updated NAPs are streamlined into EcAp GES targets;
- NAP update provides the opportunity to screen a number of challenges related to EcAp implementation in national circumstances and to look for the concept in which to foster consistency in fulfilling the SAP/MED and Regional Plans legally binding requirements with EcAp implementation = by bridging between the SAP-MED commitments, the Regional Plans and three pollution-related ecological objectives EcAp;
- links are quite strong - commitments under SAP-MED, Regional Plans/decisions and the EcAp GES targets are closely interlinked and contribute to the achievement of each other;
- municipal **wastewater** is addressed in **all three EOs**
- municipal **solid waste** is covered by **EO9 and EO10**
- the two Regional Plans on **BOD reduction**, in addition to the SAP-MED requirements for **reduction of nutrients** from agriculture are addressed by **EO5 and EO9**
- **78 legally binding requirements** (Fact Sheets A) which under the mid-term baseline assessment provide an overview of the current state of implementation of the legally binding obligations stipulated in the MAP of relevance for the process of NAP update - the basis was set for identifying implementation gaps and defining the operational targets that are streamlined into ECAP objectives and GES targets.

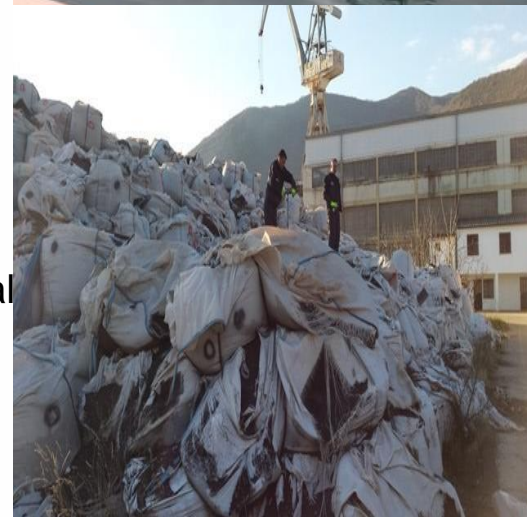
Objectives for Updating the NAPs

The main objectives for NAPs update are:

- achievement of GES for pollution related EcAp ecological objectives
- identification of measures to achieve GES with regards to pollution related Ecological Objectives,
- prioritization of investment needs,
- provide improved and updated policy framework for marine pollution prevention and control, thus contributing to the implementation of national ICZM policies and sustainable development policy (SDP).
- **constitutes a review of the National Action Plan against pollution from land-based sources developed in 2005.**

Therefore, the updated NAP gives an assessment of progress made in implementing the 2005 NAP measures through the:

- mid-term evaluation of the situation (**midterm baseline**) of the coastal area and coastal waters which is under the influence of anthropogenic pollution pressures from land-based sources
- proposal of **priority investment projects**, needs in terms of **capacity building**, and
- **plan for monitoring and reporting** on the fulfilment of objectives and implementation of set measures.



Process followed

-NAP 2015 sets out the operational targets and related measures for the prevention and/or reduction of marine pollution from land-based sources in the time frame of its implementation (2015 to 2025). In this regard, the following are provided:

- **an overview of the institutional and legislative framework** which is relevant for the fulfilment of priority objectives and measures implementation, entities in charge of implementing measures, time schedule for implementation of measures, indicators for monitoring the implementation of measures, and an assessment of the financial resources necessary for the effective implementation of measures.

A number of meetings of **thematic working groups** took place with the aim to discuss tasks related to each of the four steps of NAP update process (methodology to be applied and data to be collected and analysed, but also to prepare expert inputs for the lead national expert and to discuss and revise outcomes of the lead national expert). Also meetings of **thematic groups with the lead expert** and meetings of **the national team with MEDPOL expert team** took place.

A number of issues were discussed at **national expert team meetings** and have been subject of the extensive consultations among **national team and MEDPOL expert team** by organizing **two common technical meetings** and through **regular on-line correspondence**. Important element of the consultation process concerns the organization of **two Steering Committee meetings** (the first Steering Committee meeting was organized in view of presenting operational targets and measures and involving SC members in prioritization of the measures, while the second in view of discussing and approving the final updated 2015 NAP).



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Process followed

Steering Committee:

- institutional structure in charge of monitoring and administration of the NAP revision process able to respond to expectations of this complex process;
- Experience gained in the 2011-2015 period by the Steering Committee for CAMP and NS ICZM has served as the basis for definition of the structure and the method of work of the Steering Committee for NAP revision,
 - composed of representatives of ministries, expert institutions, local self-government administration, business sector and NGOs which are competent for the implementation of issues pertinent to the NAP:
 - Ministry of Sustainable Development and Tourism, Ministry of Agriculture and Rural Development, Ministry of Transport and Maritime Affairs,
 - Environmental Protection Agency of Montenegro, Hydrometeorological and Seismological Office, Public Enterprise for Coastal Zone Management, Institute of Marine Biology, Maritime Safety Department, Institute Igalo, Centre for Eco-toxicological Research,
 - Municipalities: Tivat, Budva, Kotor, Herceg Novi, Bar, Ulcinj,
 - Port Authority in Kotor and Port Authority in Bar, Port of Bar, Vodacom Tivat, Porto Montenegro, Shipyard in Bijela, Hemosan from Bar, and the NGO Expedition



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Content of Updated NAPs

Assessment

- **Midterm baseline assessment:**

- land-based sources of pollution and activities,
- Update of the hotspots and their classification based on the new evaluation criteria,
- Identification of laws and regulations governing the discharge of key pollutants and regulating economic and human activities to prevent/control the discharge of pollutants,
- Identification of existing governmental institutional structures controlling and monitoring the discharge of key pollutants from land-based sources of pollution,
- Adopted policies, plans and projects for pollution prevention and control and their effectiveness,
- Existing economic instruments and financing mechanisms for pollution prevention and control measures

Content of Updated NAPs

Objectives/targets

- **Operational targets grouped by ecological objectives set to achieve GES:**
- **EO5** - operational targets of SAP MED and Regional Plans: reduction of eutrofication (**1 target, 27 measures**)
- **EO9** - operational targets of SAP MED and Regional Plans: reduction of contaminants from land-based sources and their impact on the marine ecosystem (**3 targets, 24 measures**)
- **EO9/AP-SAP MED** – Air pollution (**14 measures**)
- **EO10** – operational targets of SAP MED and Regional Plans: decreasing marine litter impacts on the coast (**3 targets, 8 measures**)
- **EO5=EO9=EO10/MO= Mo=Re=PP= PAw=PAcc1** – operational target relevant to all three ecological objectives: Improve monitoring and pollution prevention and control of the marine environment by 2020 (**24 measures**).

Content of Updated NAPs

Gaps

- **Two groups of general gaps common for all 3 ecological objectives can be singled out:**
- National regulations did not fully comply with the requirements of the Regional Plans;
- Montenegro cannot achieve all relevant SAPMed and RPs requirements that are planned until 2020, as well as those that are planned until 2025 since some of the most important national official strategic documents set out different timelines.
- Technical gaps, Institutional and policy gaps, Legislative and Financial gaps, Public participation gaps, Monitoring gaps, Public awareness gaps, Public access gaps, Reporting gaps

Measures

- formulated by avoiding fragmentation and providing their exact and clear links to operational targets and identified gaps
- aggregated into legal, institutional, policy, economic or technical/investments, in order to respond to the same or similar previously identified gaps. 46 aggregated measures selected, divided in 14 categories.

Content of Updated NAPs

Selection/prioritization

- Priorities for investments are mainly focused on technical measures and a small number of policy measures. The choice of priorities was made on the basis of the ranking results of priority measures.
- Contribution to the elimination of hotspots, technical readiness of engineering documents, urgency of implementing measures, overall effect of implementing measures, contribution to the fulfilment of ecological objectives, contribution to the fulfilment of other international obligations and the costs of measure implementation

Follow-up

- Progress monitoring and reporting through indicators
- Selection of indicators (indicators based on EcAp indicators that have been developed and proposed by UNEP/MAP to effectuate NAP measures implementation in line with legal obligations of SAP/MED and Regional Plans, indicators that are part of the current national marine environment monitoring programme, indicators of national relevance)

Projects

- Selection of investment projects was based on the results of: prioritization and ranking of aggregated measures, cost estimate for aggregated measures, ranking of priority hot spots and sensitive locations. Out of a total of 8 integrated proposed projects, seven are related to the implementation of technical measures and one to institutional capacity building for the implementation of IMAP/EcAp.

Hot Spots and Sensitive areas



Category	Number	Priority pressures
Hot spots (A) <i>Port Milena canal</i>	1	High concentrations of organic contaminants via input of sewage and the impact of waste water and microbiological contamination of the marine biota on the health of the surrounding population and the tourism use of the area
High risk areas/Hots Spots (B): <i>Ports: Bar, Kotor, H.Novi, Ada Bojana, bay of Kotor IBM, Ship Yard Bijela</i>	6	High pollution levels of sea water, soil and sediments with priority pollutants, industrial contamination with a pronounced negative impact on the marine ecosystem in which rehabilitation is a priority, as well as the tourism use of the area
Sensitive areas (C) <i>Ports: Tivat, Risan, Budva and Porto Montenegro</i>	4	Industrial contamination and impact on public health

National Operational Pollution Reduction Targets

Operational targets	Sectors (solid waste, wastewater, industrial pollution etc.)	EO5	EO9	EO10
EO5/MW1: <i>Reach the share of treated waste water represents 60% of the total waste water, and the percentage of connections to the sewerage system to 75-80% by 2020</i>	wastewater	X		

National Operational Pollution Reduction Targets

Operational targets	Sectors (solid waste, wastewater, industrial pollution etc.)	EO5	EO9	EO10
EO9/PO1: <i>Progressively reduce existing PCBs stocks so as to ensure their full elimination by 2025</i>	<i>industrial pollution</i>		X	
EO9/ID1: <i>Reduce hazardous substances emissions from Bijela Shipyard into the sea and sediment by 70% by 2020 and ensure their remediation, including sound control and management of future pollution by 2025</i>	<i>industrial pollution</i>		X	
EO9/BW1: <i>Reach good environmental status of the marine ecosystem by 2025</i>	<i>industrial pollution</i>		X	

National Operational Pollution Reduction Targets

Operational targets	Sectors (solid waste, wastewater, industrial pollution etc.)	EO5	EO9	EO10
<i>EO10/SW1: Enable at minimum 98% municipal waste collection in urban areas, and 50% share of recycled collected municipal waste, such as paper, metal, plastic and glass by 2020</i>	<i>solid waste</i>			X
<i>EO10/SW2: Minimize run-off and river inputs of solid waste in order to reduce marine litter impacts and pressures to marine ecosystem by 2020</i>	<i>solid waste</i>			X
<i>EO10/SW3: Eliminate improperly managed solid waste disposal sites in coastal area by 2020</i>	<i>solid waste</i>			X

National Operational Pollution Reduction Targets

Operational targets	Sectors (solid waste, wastewater, industrial pollution etc.)	EO5	EO9	EO10
<i>EO9/AP-SAP MED - Air pollution AP1: Enable continual reduction of air pollution from transport (at land and sea) by 2020</i>	<i>industrial pollution</i>		X	
<i>Improve monitoring and pollution prevention and control of the marine environment by 2020</i>	<i>monitoring, reporting, public participation, public awareness and public access common to all sectors: solid waste, wastewater, industrial pollution</i>	X	X	X

Priority Measures

- The programme of measures: aggregated measures obtained by defining potential measures based on the established gaps within the midterm baseline assessment (Integrated measures obtained using the form of fact sheets B, C, D, and E).
 - **potential measures** - aggregated in **integrated** legal, institutional, policy, economic and technical measures for achieving ecological objectives
 - **Prioritization of integrated measures** carried out by using seven groups of four criteria each has been prepared in the fact sheets D
- total set of aggregated measures enables a comprehensive programme for efficient fulfillment of operational targets.

Each measure is associated with follow-up indicators.

46 aggregated measures categorized into 14 prioritization categories, covering the following areas: solid waste management, wastewater management, industrial pollution reduction, rehabilitation of hot spots, air pollution reduction, monitoring, reporting, public participation, public awareness and public access common to all sectors: solid waste, wastewater, industrial pollution



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Priority Measures

Measure categories	Number of measures	Relevance to EO		
		EO5	EO9	EO10
Legal	8 (2 contributing to all 3 EOs, 1 to EO5 and EO9)	3	4	3
Policy	6 (1 contributes both to EO5 and EO9)	3	1	3
Technical	16 (1 contributes both to EO5 and EO9 and 1 to EO9 and EO10)	14	15	13
Economic	6 (1 contributing to EO5 and EO9)	1	2	2
Institutional	12 (1 contributing to all 3 EOs)	3	6	5

List of indicators

Ecological Objectives	Indicators
Eutrophication	EcAp Common indicator 7/WW06 and 8/WW07, WW01, WW02, WW02, WW03, WW04, IND07, MW0X, MW08, MW09, MI: Port Milena channel is connected to the Bojana River, Number of successfully realized awareness campaigns over the years, Number of successfully realized programmes for environmentally sound waste management.
Contaminants	IND06, HW01, HW02, HW03, ECAP Common Indicator 11/IND01, ECAP Common Indicator 12/IND02, IND05, IND04, IND10, HS01, IND09, MW0X, MW08, MW09, IND07, MI Quantities of the waste with PCB content that is exported, Equipment for reaction in the events of accidental pollution is in operational, Human capacities to react in the events of accidental pollution are improved (e.g. number of relevant training programmes that are organized), ELVs for air pollutants are prescribed, Control of emissions from ships is properly controlled in accordance with the MARPOL Convention, Prohibition measures on burning of PCB oils and waste with PCBs are applied, Number of successfully realized programmes for environmentally sound waste management, Revenue growth achieved by applying fiscal measures, Share of companies within Annex I of the LBS Protocol applying cleaner production, BAT and/or BEP.
Marine litter	MW04, MW05, MW06, MW07, ECAP Common Indicator 16/MWO1, ECAP Common Indicator 16/MWO2, MWOX, MW08, MW09, MI Continual allocations of needed financing means for realizations of investment projects is in place, Municipal waste generation per capita, Share of recycled, composted, incinerated, treated...

List of indicators

Ecological Objectives	Indicators
Marine litter	Share of generated municipal waste per waste composition category, MI Number of special waste water treatment facilities installed in neighborhoods on the river Bojana banks, MI Quantity of solid communal waste collected in neighborhoods on the river Bojana banks, Number of special waste water treatment facilities for homes installed in neighborhoods on the river Bojana banks, Quantity of solid communal waste collected in neighborhoods on the river Bojana banks, Legal act on marine litter is developed and implemented.
Cross-cutting	<p>EO5/EO9: WW01, WW02, WW02, WW03, WW04, ECAP Common Indicator 15/IND04, EcAp Common indicator 7/WW06 and 8/WW07, BW01, MI Continual allocations of needed financing means for realization of investment projects is in place, Continual allocation of needed financing means for realization of investment projects is in place,</p> <p>EO9/EO10: WW01, WW02, WW03, IND 01, IND 02, EcAp Common indicator 14/IND 03, IND 08, IND 09, Common indicator 16, Candidate indicator 25: Land use change (EO8), MI**: Contaminated industrial site of Shipyard is remediated,</p> <p>EO5/EO9/EO10: BW01, ECAP Common Indicator 15/IND04, WW01, WW02, WW03, WW04, IND07, ECAP Common Indicator 16, Candidate Indicator 25, ECAP Common indicator 16/MW01, ECAP Common Indicator 8/WW07, EcAp Common indicator 7/WW06, IND05, ECAP Common Indicator 12/IND02, MI-Adopted and implemented legal act on EcAp/IMAP,</p>

List of indicators

Ecological Objectives	Indicators
Cross-cutting	<p>MI Adopted legal act that regulated EU MSFD implementation, MI Adopted and implemented legal act that regulates EU WFD implementation on water monitoring by 2018, MI Monitoring Programme is in accordance with IMAP by 2018, MI: Comprehensive monitoring program that integrates IMAP with EcAp based indicators and MSFD requirements, MI List of the new common indicators agreed, MI Regular annual budgeting, MI Continual allocations of needed financing means for realizations of investment projects is in place, MI Share of NAP's measures that are implemented with increasing trend over the years, MI Share of NAP's operational targets that are achieved with increasing trend over the years, MI Increased trend in annual allocations of NAP's measures from national budget and external sources, MI Increased trend in external funding for IMAP and MSFD in period 2016-2020, MI Number of training programmes realized for implementation of MSFD and IMAP, MI Institutional capacities are fully operational to realize IMAP in 2019, and monitoring based on IMAP and MSFD in 2021, Adopted and implemented legal act that regulates EU WFD implementation water monitoring by 2018, EPA regularly reports on the state of surface and ground waters in line with EU WFD requirements, Transboundary Commission is functional, Relevant national legislation is improved where it is necessary, Number of beaches that are subject of carrying capacity assessment before approving programmes for their tourism valorisation, Increase in number of successfully realized inspection controls and executed related penalties, Number of residential objects and small hotels in Bay of Kotor using small capacity waste water treatment facilities (increasing trend over the years), Decrease of number of constructions using septic tanks.</p>

Project Fiches

Title of the project/or the number of projects per EO and or SAP MED sector	Objectives (e.g. rehabilitation of hot spots, improvement/construction of WWTP, solid waste management, reduction of industrial pollution, elimination of stock piles etc.)	Relevant Ecological Objectives		
		EO5	EO9	EO10
Remediation of the polluted sediments in Bijela Shipyard	Rehabilitation of hot spots, waste water treatment and solid waste management, reduction of industrial pollution	X	X	X
Improvement of the sewage system and construction of waste water treatment in Municipality of Ulcinj and remediation the Port Milena channel and its connection to the Bojana River	Improvement of the waste water treatment and construction of WWTP, rehabilitation of Port Milena Channel	X		
Improvement of the sewage network and waste water treatment in Municipality of Bar	Improvement of the waste water treatment and construction of WWTP	X		

Project Fiches

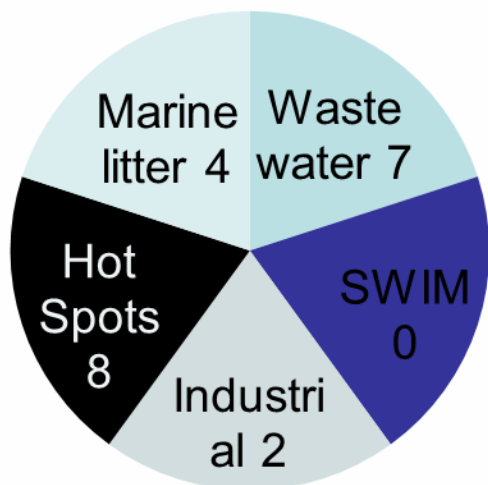
Title of the project/or the number of projects per EO and or SAP MED sector	Objectives (e.g. rehabilitation of hot spots, improvement/construction of WWTP, solid waste management, reduction of industrial pollution, elimination of stock piles etc.)	Relevant Ecological Objectives		
		EO5	EO9	EO10
Improvement of the sewage network and waste water treatment in Municipality of Kotor and Municipality of Tivat	Improvement of the waste water treatment and construction of WWTP	X		
Introduction of the Integrated Monitoring and Assessment Programme (IMAP) on marine ecosystem of the coastal area of Montenegro in accordance with Barcelona Convention Requirements	Rehabilitation of hot spots, waste water treatment and solid waste management, reduction of industrial pollution	X	X	X
Improvement of the sewage network and waste water treatment Municipality of Herceg Novi	waste water treatment and solid waste management, reduction of industrial pollution	X		

Project Fiches

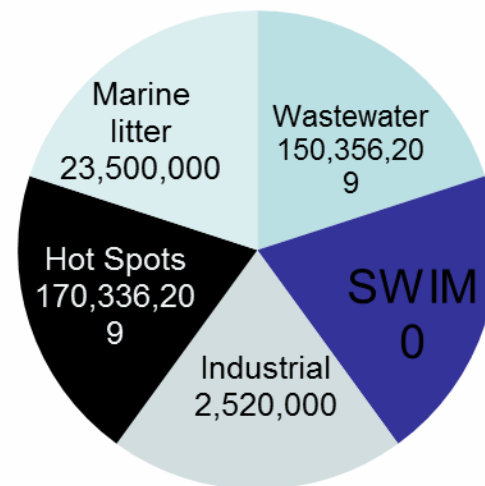
Title of the project/or the number of projects per EO and or SAP MED sector	Objectives (e.g. rehabilitation of hot spots, improvement/ construction of WWTP, solid waste management, reduction of industrial pollution, elimination of stock piles etc.)	Relevant Ecological Objectives		
		EO5	EO9	EO10
Control of marine litter inflow via rivers Bojana and Sutorina into the sea	Waste water treatment and solid waste management	X		X
Development of the project documentation and remediation of 37 illegal non-equipped solid waste disposal sites in coastal area	lid waste management			X

Project Fiche Breakdown

Number of Projects per Sector



Total Cost of Projects per Sector



**Questions and
thank you for
your attention**

