**Factsheet for new measures**

*This measure fact sheet is the result of coordination between the UBA project Implementation of the Marine Strategy Framework Directive (MSFD) in Bulgaria – Development of Programmes of Measures under Article 13', carried out by Fresh Thoughts/Intersus, and the EC project (DG Environment) 'Technical and administrative support for the joint implementation of the Marine Strategy Framework Directive (MSFD) in Bulgaria and Romania – Phase 2', carried out by ARCADIS-Belgium.*

| **Measure characteristics**  | **Management area:*** ***Black Sea***

***Any other codes*** | **Code:*****MSFD reporting code*****No. of measure:****6** |
| --- | --- | --- |
| **Measure title** | Awareness building (educational campaign) of and advisory services for local professional Fishery Groups regarding effective use of environmental friendly fishing techniques and equipment. |
| **Short, precise description of the measure** | The measure can be considered as a first step in a process of introduction of new environmental friendly fishing techniques. The measure consists of the following actions:6.1. Capacity building events with local fisheries groups in Training centres;6.2. Educational campaign of the fishing associations regarding effective use of environmental friendly fishing techniques (ex. pingers); |
| **EU measure category** | **2b** |
| **Key Types of Measures** | KTM 20 Measures to prevent or control the adverse impacts of fishing and other exploitation/removal of animal and plantsKTM 35 Measures to reduce biological disturbances in the marine environment from the extraction of species, including incidental non-target catches |
| **Environmental targets** | **RO:****Mammals**1.1.1 Maintaining the distribution and frequency of species by implementing adequate management measures1.2.1 Maintaining positive trend in the number of marine mammals populations by implementing the Action Plan for the Conservation of Dolphins in Romanian waters of the Black Sea1.3.1 Diminishing natural mortality by maintaining the good condition of the environment and fishery resources. Reducing by-catch by adequate management measures.1.4.1 Maintaining the good condition of the marine ecosystem.1.5.2. Maintaining a good status of the marine ecosystem. 1.6.2 Maintaining a good status of the marine ecosystem and implement appropriate management measures.**Mammals:*** Preserve the existing distribution range of the three species of marine toothed whales by implementing appropriate management measures
* Reducing the by-catch levels of the toothed whales

**Seabirds:*** Maintain or increase in sustainable limits (to be determined) the distribution of migratory species Mediterranean shearwater (*Puffinus yelkouan*).
* The population abundance/size (number of migratory individuals) of Mediterranean shearwater (*Puffinus yelkouan*) remains within 95% of the natural abundance of migratory species in Romania and increases in the long term.
* Preserve the habitats of Mediterranean shearwater (*Puffinus yelkouan*) by decreasing the pressure from human and natural factors.
* The area of the habitats of the Mediterranean Shearwater (*Puffinus yelkouan*) is maintained or is increasing
 |
| **Descriptors** | D1- BiodiversityD3 – State of commercial fish and shellfish stocksD4 – Food webD6 – Seabed |
| **Main pressures** | Biological disturbances* selective extraction of species, including incidental non-target catches (e.g. by commercial and recreational fishing).

Physical damage* abrasion (e.g. impact on the seabed of commercial fishing, boating, anchoring),
* selective extraction (e.g. exploration and exploitation of living and non-living resources on seabed
 |
| **Main drivers** | Fishery |
| **Characteristics** | *Seabirds**Marine mammals**Fish**Benthic habitats* |
| **Link to other directive/legislation/policy** | *COUNCIL REGULATION (EC) No 1198/2006 of 27 July 2006 on the European Fisheries Fund**Regulation (EU) No 1380/2013 of the European Parliament and the Council of 11 December 2013 on the Common Fisheries Policy* |
| **Necessity for transnational regulation** | No |
| **Instrument for implementation/** **Mode of implementation** | * *Policy*
 |
| **Spatial reference/implementation zone** | *Territorial waters/EEZ* |
| **Contribution of the measure to achieving the target**  | The measure will have a high contribution to achieving the targets. |
| **Transboundary impact** | The implementation of the measure is not expected to have negative effects on the marine environment of neighbouring countries. |
| **Costs** | **First rough assessment:** low < € 50.0001) Costs for capacity building events with local fisheries groups in training centers: 3500 €2) Educational campaign of the fishing associations regarding effective use of pingers. (via leaflets) 500 €Total one off costs within MSFD cycle (6 years): 4000 €Scoring:

|  |  |
| --- | --- |
| **Score** | **total cost** |
| 1 | > € 1 million |
| 2 | € 500.000 - 1 million |
| 3 | € 200.000 - 500.000 |
| 4 | € 50.000 - 200.000 |
| **5** | **< € 50.000** |

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| **Effectiveness** | Potentially strong |
| **Indicator(s) to measure effectiveness** | No. of pingers |
| **Socio-economic assessment** | ***Negative side effects:*** *The implementation of the measure is not expected to have negative effects on the marine environment****Cost Effectiveness Assessment:*** *Cost effective****Cost Benefit Assessment:*** *medium* |
| **Coordination** | Bilateral coordination  |
| **Technical feasibility** | * *Applied; limited experience / uncertainties*
 |
| **Body responsible for the measure implementation** | **Bulgaria:** Ministry of Agriculture and Food, National Agency for Fisheries and Aquaculture (NAFA), NGOs, Fisheries local action groups (FLAGs)**Romania:** Ministry of Environment, Waters and Forests, National Agency for Fishery and Aquaculture, NIRD “Grigore Antipa”, NGO “Mare Nostrum” |
| **Financing opportunities** | Public funds; EU funds (Horizon 2020 Program, EMFF) |
| **Planning of implementation/temporal coverage** | **2017** |
| **Difficulties in implementation** | Yes – fishermen fear on increasing investment (costs) |
| ***Supporting information for SEA*** |
| **Additional values for protection (outside MSFD)** |  |
| **Reasonable alternatives** |  |