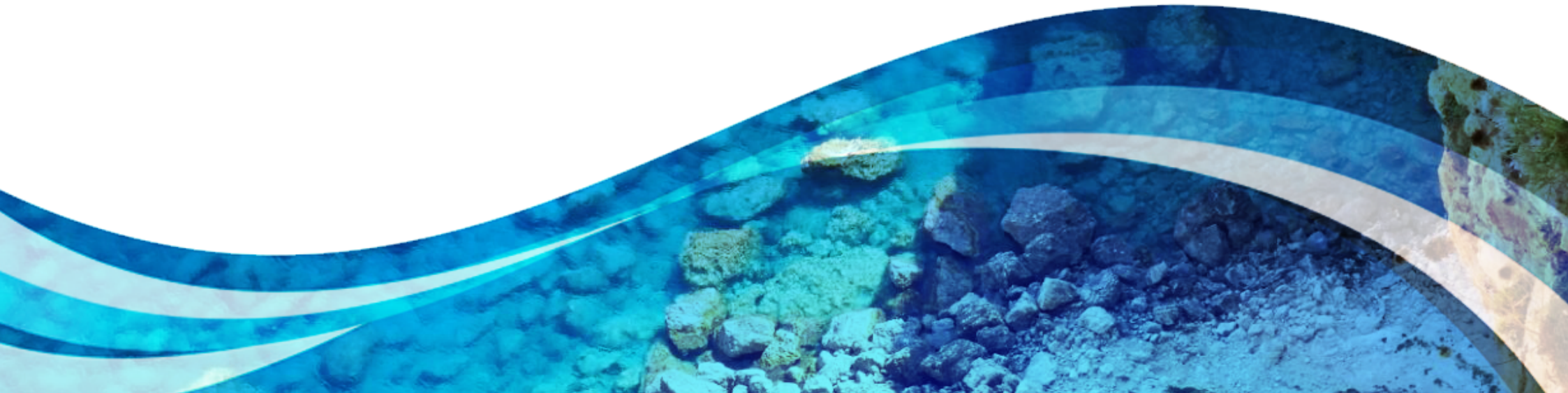




BlueMed Pilot Action For a plastic-free, healthy Mediterranean Sea

Mapping of initiatives – National Hubs EGYPT

[Extract from the DRAFT SUMMARY REPORT, BLUEMED Pilot: For a Plastic-free, Healthy Mediterranean Sea
(Tuesday 12 March 2019, 9:00 – 17:00, Room: CDMA -1/44, Rue du Champ de Mars 21, Brussels, Belgium)]



Egypt

The pilot from Egypt promotes running activities with clear description of stakeholders, key players and connections. Actions includes awareness and education, new technology development for materials for fishing related activities, governance and citizen science on plastic monitoring and impacts, waste valorization into energy, Maritime sector (anti-biofouling), new material designation that will protect environment from pollution. Are involved, Universities, Research Departments, the Ministry of Education, Ministry of Tourism and local authorities. Connection with industrial stakeholders and consortia has to be clearly indicated. Here follows a detailed description of actions.

No.	Name of the action	Partner responsible	Type of action ¹	Area of application ²	Expected results
1	Development of behaviors compatible with environmental sustainability and waste reduction, efficiency of the waste collection chain, safely collection and handling of marine plastics, the separated collection and the recycling	Ministry of Higher Education and Scientific Research MHESR, Ministry of Education, Egyptian Environmental Authority Affair (EEAA), Universities of Alexandria and Suez Canal, National Institute of Oceanography and Fisheries NIOF, bibliotheca Alexandria	Awareness and education.	Whole country	People will actively participated in saving marine environment on a safely and knowledge bases. Raising awareness flag that one will affect other and create media plan that will engage people to non-human world.
2	Using Jelly fish medusa as raw material to produce micro-plastics filter for commercial and public use as a solution to plastic pollution.	Marine science department, Suez Canal University.	New technology.	Coastal area	Significant reduction of plastic at sea level from conversion into new products.

¹ list of options: e.g. dissemination / awareness raising; environmental assessment and impact evaluation; governance; new technologies / new materials; recycling; other?

² e.g. whole country, specific watersheds or regions, waters and seafloors, specific areas

No.	Name of the action	Partner responsible	Type of action ¹	Area of application ²	Expected results
3	Collection, sorting and valorisation of plastics at recycling factories.	(EEAA), (NIOF), Governorate.	Governance	Coastal beach cleansing campaigns.	Protect the fragile ecosystem of the Mediterranean Sea Following a citizen science approach to the problem. Monitoring of natural species and macro-plastics as environmental indicators.
4	Plastic mapping at coastal regions.	NIOF, Faculty of Science Alexandria University.	Making an interactive map that people put plastics they spotted on coast.	Coast of Mediterranean and Suez Canal coast.	Spotting places on maps to measure and count the impacts and measure the resilience of species after a while.
5	Using organic crustacean shells to reduce the propylene usage.	Marine science department Suez Canal University.	Citizen Science/ new technology	Potentially all Mediterranean Coastal area	Starting a new era of citizen science where all people will care about environmental issues and start using things that didn't negatively impact environment.
6	Biodegradation of Micro and macro Plastics using isolated marine Bacteria	(NIOF), Faculty of Science Alexandria University.	Citizen Science/ new technology	Potentially all Mediterranean Coastal area	Starting a new research for plastic degradation using different marine bacteria strains

No.	Name of the action	Partner responsible	Type of action¹	Area of application²	Expected results
7	Conversion of plastic into fuel	Petroleum research Institute, NIOF	new technology	Potentially all Mediterranean Coastal area	Increase the economic value of the waste management
8	Identification cards to post online about the 12 dirty dozens of plastics.	Ministry of Higher Education and Scientific Research, Ministry of Environment, NGO's environmentalist.	awareness raising/ Education.	Online media campaign.	Involve environmentalists to craft messages to public to engage in conservation process and talk with their own language.
9	Non-human bonding experience about plastic (simulation photobooth about animals tangled in plastics).	ESMC and environmentalists.	Citizen Science / Awareness rising	Offline campaign that works on awareness booths for public and school kids.	Creating an experience that emotionally attach people to the harms of plastics to animals.
10	Ship with paintings with anti-biofouling materials.	NIOF, Suez Canal university.	New technologies / new materials	Marinas and ships industries centres.	New systems design that will protect the ships from fouling and eliminate the limits of exotic species.
11	Using biodegradable materials at fishing gears industries.	Suez Canal university.	New technologies / new materials	Fishing gears centres and fishermen who craft the gears.	New material designation that will protect environment from pollution.

No.	Name of the action	Partner responsible	Type of action ¹	Area of application ²	Expected results
12	Sustainable ecotourism.	MHESR, Ministry of Tourism, EEAA.	Awareness campaigns.	Dealing with hotel owners to create systems that reduce plastic daily dosage at hotels.	Citizen science that will make community deal with the idea of pollution.
13	Spread the word of government about reducing taxes if your packaging system is non-plastic component.	MHESR, EEAA, NGO Environmentalist	Awareness and education offline campaigns.	Talking with market owners to reduce the idea of packaging.	Improve market transparency (with continuous traceability), reduce the fragmentation of standards and knowledge
14	Make artistic exhibitions about trash art.	MHESR, EEAA, Bibliotheca Alexandria, NGO Environmentalist	Awareness campaigns.	Urban area	Merging art and science trying to make a bonding relationship about increasing awareness.
15	Beach cleaning campaigns along the coast.	MHESR, EEAA, NGO, governorate, Environmentalist	Participatory action at community level.	Public Coastal areas	It would have an immediate impact as it will beautify the area from plastics and pollutants along the coast.
16	Define the Component of Ecosystem-Based Management Approach to ICZM	Coastal Research Institute, NIOF	management	Coastal cities	Management modeling

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