

# Fisheries and Plastics Challenge: from Marine Litter to Sustainable Business Solutions

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Inter-basin Cooperation on Marine Litter: a focus on the Danube River and the Black Sea



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Projects co-funded by the EU and the national funds of the participating countries implemented by BSNN



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- Where are we – prospects, projects, problems



# Sources of marine litter, policies

- Sources – land based, marine sources
- Regional policies – Black Sea Convention, EU policies
- Policies on marine litter – related to recycling of plastics
- Solutions – reduction at source, improvement of waste management, innovation of recycling technologies, education of experts
- EU proposal to tackle marine litter and ghost fishing
- New measures on single use plastics as well as derelict fishing gear from May 2018
- Circular Economy package provides support to Marine Strategy Framework Directive
- The plastic used for fishing gear is of very high quality, but the proportion recycled is small. Only 1.5% of gear gets effectively recycled. That is why the proposal provides tools and incentives to facilitate recovery, re-use and recycling of the plastic material in fishing gear.
- Linear model to be replaced gradually by circular model (reduce, reuse, recycle, return in production)

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## Plastics in the marine environment

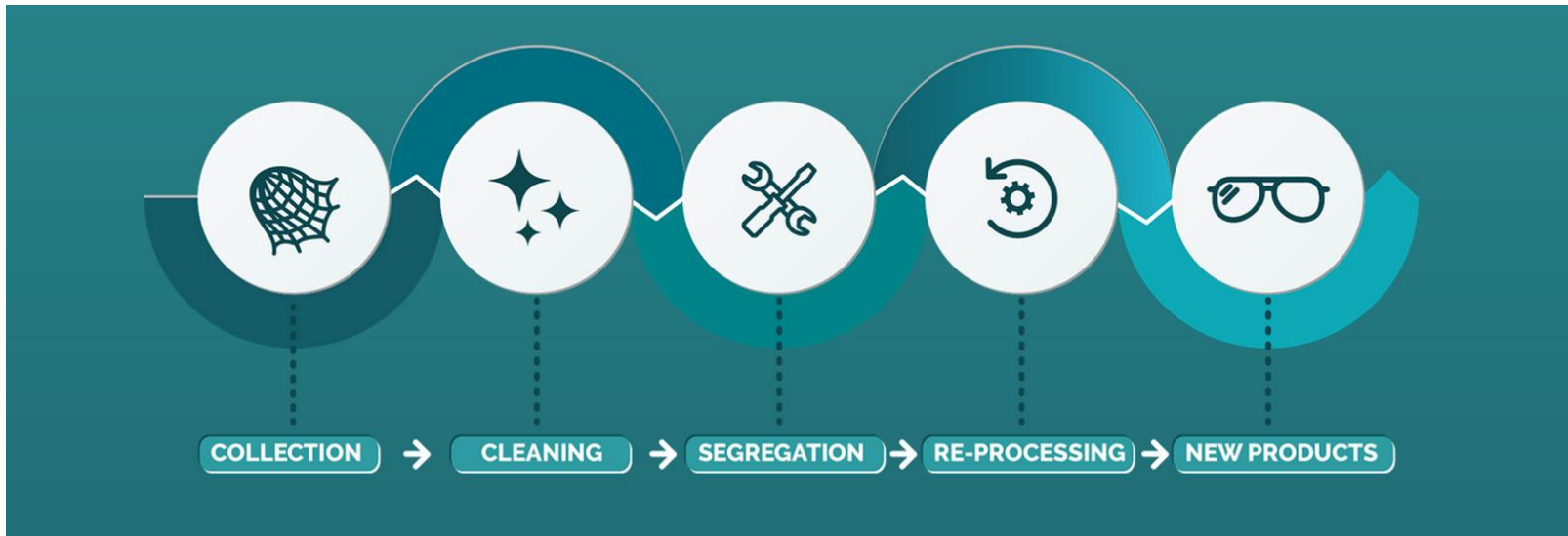
- Global approach to the problem
- Issues to address in order to solve the problem
- What to do with plastics, how to take them out of the waste stream and return to the production cycle and how to create an enabling environment for solution to the problem





## Reduction of marine litter from fishing

- Searching for effective solutions to this very problematic litter
- Ghost fishing – derelict fishing gear and nets
- Circular economy – solutions for the marine environment





## Beginning of cooperation

- Environmental NGOs, local communities, fishermen
- Projects for collection and recycling of old fishing nets and derelict fishing gear
- NGOs – World Animal Protection, Fathoms Free, Living Sea, International Fund of Animal Welfare work on national level
- Involving the fishing communities and the public





# Inclusive business model

- Collecting of old fishing nets
- Stimulation of fishermen – goods, articles from recycled nets
- Support from local communities, education, art





## Challenges to fishing gear recycling

- Nets cleaning and storage
- Transportation to distant recycling facilities
- Communication with coastal and fishing communities
- Marine literacy, awareness







## Public-private partnerships

- Partnership between public institutes, non-profit organizations and businesses
- Successful production and trading
- Technologies, recycling of waste, new high quality projects
- Innovative and beneficial for the businesses partnerships
- Interesting examples of successful and sustainable business solutions



## BUREO – trade network

- Introduction of projects from the material NetPlus
- Made of recycled nets
- New dimension of industrial standards
- Emblematic skateboard
- Successful marketing
- Young people engagement





# WFO Waste Free Oceans

- Well-known public-private international
- Incorporates important businesses in EU countries
- Cooperation with EC, global network, support to fishermen communities and innovation
- Cleaning up projects and recycling of marine litter





# MERKX Bernard A.J., Holland

- Environmental innovations
- Partnerships with local communities and authorities
- High quality articles of recycled materials
- Two Catalan fishermen – ambassadors for change
- Project plans for the Danube and Black Sea tour for collection of fishing nets and transportation to Rotterdam



# Circular Ocean, North Sea

- Global approach
- What waste to feed back into production
- Popular products
- Education campaign
- Public involvement
- Catalogues of articles
- Marketing





## RETRAWL of Plastix A/S, Denmark

- Innovative technology for recycling marine waste from fishing nets, trawls, ropes, cords and steel elements and turning them into new high quality projects
- Recycling all kinds of nets and steel waste articles
- Closes the production cycle, partners from EU and the world over
- Participation of global networks
- Big potential for global solutions to marine litter from fishing
- More integrated blue and green economy, reduction of deposition of waste





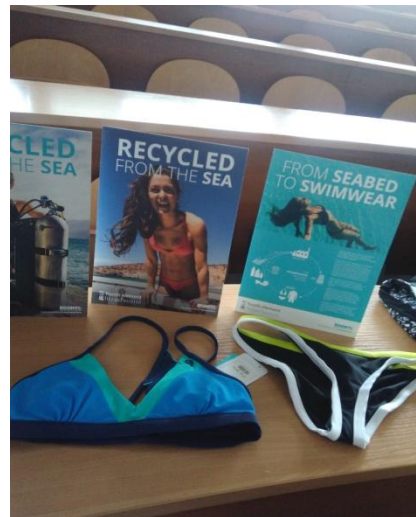
## KIMO – local communities

- Plastix helping local KIMO communities in Scotland recycle fishing nets – pelagic and bottom nets
- Three ports provide for free space for storing nets
- Pilot activities
- Projects
- Development



# Fourth Element, Britain

- World top producer of costumes and swimwear for bathing, swimming, diving
- Concept OCEANPOSITIVE
- ECONYL, fiber from 100% regenerated nylon



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- X-CORE, swimwear with thermal protection made of REPRIEVE, polyester fibre from recycled plastic waste
- World standard for environmentally friendly production Blue Sign and OEKO-TEX
- Scuba divers, surfers, volunteers for removing ghost nets and cleaning underwater activities





# Where are we?

- Pilot projects in fishing communities
- Support to collection of derelict nets, trawls, fishing gear
- European Maritime and Fisheries Fund (EMFF)
- Project for collection of derelict fishing gear from Danube and Black Sea
- Promotion of circular economy concept
- Circular economy experts for management, businesses, technology
- Supportive regulatory framework – further development, adaptation
- Dissemination of good practices
- Public environment, education from early young age







## Where are we ? (2)



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## Where are we ? (2)

- Marine litter – from environmental protection activities to sustainable business models
- Public private partnership – ideas, opportunities for good practices
- Plastics recycling businesses
- Local authorities and businesses
- Plastic waste management – future, ideas
- Projects for fishing communities
- Enhancement of environmental awareness and marine literacy
- Global initiatives for world ocean protection
- Regional Black Sea activities





# Thank you for your attention!



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