



Proyecto cofinanciado por la UE

## DELIVERABLE DB6.1

# Minutes on training fishing marine litter to fishermen of Miren Argia and Itsas Belarra

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## I. Minutes on training fishing marine litter to fishermen of Miren Argia

The training to the crew of Miren Argia vessel about fishing marine litter following the Life LEMA protocol took place in AZTI, Pasaia the 26/07/2017 at 9.00 am. Irene Ruiz (Surfrider Foundation Europe SFE herein), Oihane Cabezas (AZTI) and Iker Azurmendi (Provincial Council of Gipuzkoa, DFG, herein) provide useful information to Enrique Goenaga (Captain of Miren Argia). In the first minutes, Irene Ruiz gave a brief talk about the problems that generates the accumulation of marine litter in the Basque Coast to set in context of the current situation. Later, a detailed description of the fishing marine litter protocol, developed by SFE, was present by Oihane Cabezas and Iker Azurmendi to Enrique Goenaga. Irene, Iker and Oihane stressed out on the need to collect data related to floating marine litter in order to control the problems and build actions to mitigate it. Particularly, Oihane and Irene instructed Enrique how to sample microplastics, and technical details about the net and where do microplastics accumulate on it were given. Enrique Goenaga agreed with the protocol but also point at the need to keep it simple. Enrique Goenaga, by the time of the meeting, was close to employ a fisherman to work with.

Material given to Miren Argia Captain Enrique Goenaga

- Floating Marine Litter protocol in powerpoint, showing the background info and forms to be filled in during the sampling
- Detailed document in Word showing concrete task to be performed by Miren Argia. Sampling strategy, duration etc...
- Logbook of daily activities.
- Material for keeping the samples identified: sticks and codified bags for each fishing set
- Tshirts and branding material such as pen, sheets folders of the project.
- Didactic material showing how to sample microplastics, and details about the net and where do microplastics accumulate on it

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## II. Minutes on training fishing marine litter to fishermen of Itsas Belarra

The training to the crew of Itsas Belarra and Uhaina vessels from Iparralde on fishing marine litter following the Life LEMA protocol took place in Communauté de Communes Sud Pays Basque, at the Syndicat Mixte Kosta Garbia headquarters the 27th of April 2018 at 11.00 am. LEMA representants from Kosta Garbia (Gregory Le Moigno and Caroline Sarrade), AZTI (Ohiane Cabezas), Surfrider (Ernesto Villarino and Juliette Hamount) and Rivages Pro-Tech (Matthias Delpy) and the crew of Itsas Belarra (A. Clavier and fishermen) and Uhaina (P. Rolle) attended the meeting. Gregory LeMoigno opened the sesión introducing each of the LEMA representants to the audience and also explaining the training schedule. Afterwards, Matthias Delpy took the floor and described a new off-line automatic system to register each of the marine litter fishing sets onboard.



**Figure 1** Gregory Le Moigno (Kosta Garbia) introducing the fishing marine litter training sesión to the audience.

Fishermens agreed to use the novel method which aimed to ease their work onboard. Minutes later Juliette Hamount gave a brief talk on the problems related to marine litter disposal on coastal ecosystems and straight ahead explained the LEMA fishing marine litter protocol to the crew. Fishermen point at the importance to follow the streamlines



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to collect as much litter as possible, because floating litter accumulates in convergence zones. Fishermen also recall on the boat limitations due to size and sampling time: 20 big pack/day to be filled in by litter at the máximo, due to space limitation and the time consuming process of big pack weightening by the crane. Gregory LeMoigno explained marine litter management at the harbour: once the ship is full of litter, the litter will be disposed in harbour on a big container managed by an external waste service. M. Delpy closed the training sesión stressing out the importance of obtaining good data to construct a model that resolves marine litter dispersal trajectories.

Material given to fishermen of Itsas Belarra and Uhaina boats:

- Fishing marine litter protocol and pens.
- Powepoint of fishing marine litter protocol.