

Plastic Busters MPAs Capitalization Conference
Athens 12-13 of April 2022



PLASTIC BUSTERS MPAs

*Experiences on Marine Litter Prevention and Mitigation actions
at Cabrera Archipelago Maritime -Terrestrial National Park*

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Regional Ministry for Environment and Territory
Balearic Islands Government.



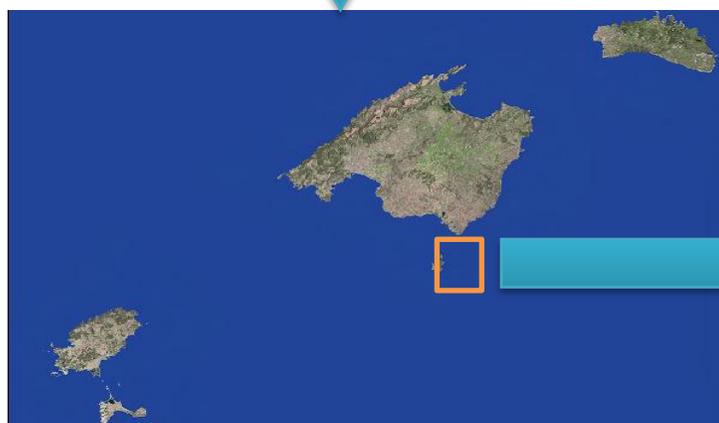
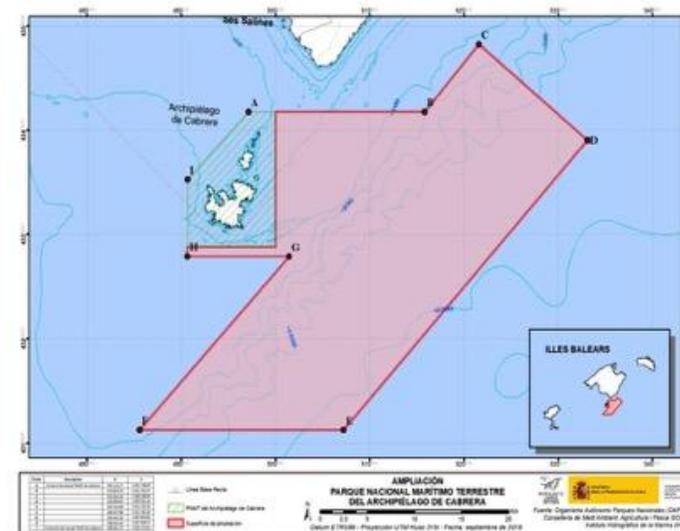
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 PLASTIC BUSTERS
MPAs

Project co-financed by the European
Regional Development Fund

Cabrera National Park



Balearic Islands



Cabrera Archipelago

Total surface: 907.94 Km²

13,16 Terrestrial Km²

894,78 Marine Km²



Park Waste Management 1991-2022



From landfill...



to waste segregation and valorisation in Mallorca



Main Lines of Action:

Seasonal Monitoring of Macrolitter on the Beaches

Palangrers

Area: 30 m²
Length: 7,2 m



N'Ensiola

Area: 274 m²
Length: 23,8 m



Illa des Conills

Es Burri

Parque Nacional del Archipiélago de Cabrera

Area: 414 m²
Length: 59,4 m



- Quaterly samples where taken on 3 beaches with different orientation to prevailing wins.
- Total Area: 718 m²
- Total Lenght: 90,4 m

Seasonal sampling integrated into the Park management

1 Beach Pickup



2 Classification



3 Count and Weight



Beaches	Total number of ítems	Total ítems Weight Sum (Kg)
Caló dels Palangrers	5.041	92,48
Avarador de n'Ensiola	4.836	172,97
Es Burri	14.385	462,23
	24.262	727,68

In 2020 and 2021, 7 samplings were carried out with park staff, soldiers and volunteers.

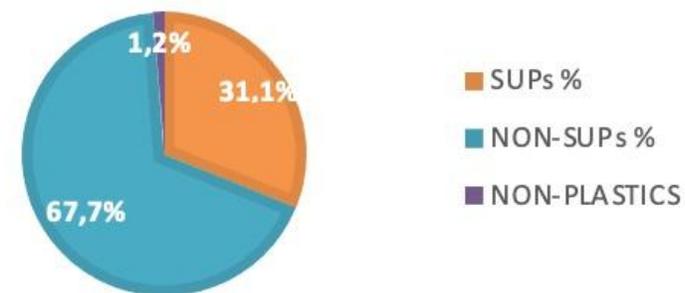


Protocol to monitor the impacts of marine litter on beaches.



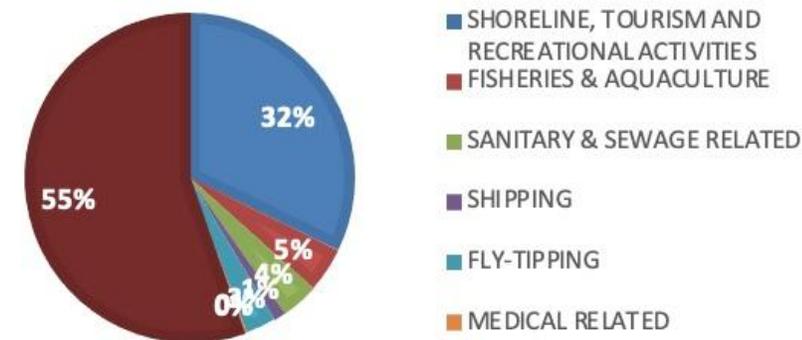
MATERIALES DE POLÍMEROS ARTIFICIALES
CAUCHO
ROPA/TEXTIL
PAPEL/CARTÓN
MADERA PROCESADA/TRABAJADA
METAL
VIDRIO
CERÁMICAS
RESIDUOS SANITARIOS
RESIDUOS MÉDICOS
PARAFINA/TROZOS DE CERA

Beach Macrolitter Composition



- **168 types of garbage grouped into 11 categories.**
- **98% of the collected waste were plastic.**
- **30% of the collected plastics were SUPs.**
- **32% marine litter originates from tourism and recreational activities in areas beyond the park's jurisdiction.**
- **55% of the waste collected, the origin could not be identified**

Origin of Waste



Tested Measures in Cabrera National Park

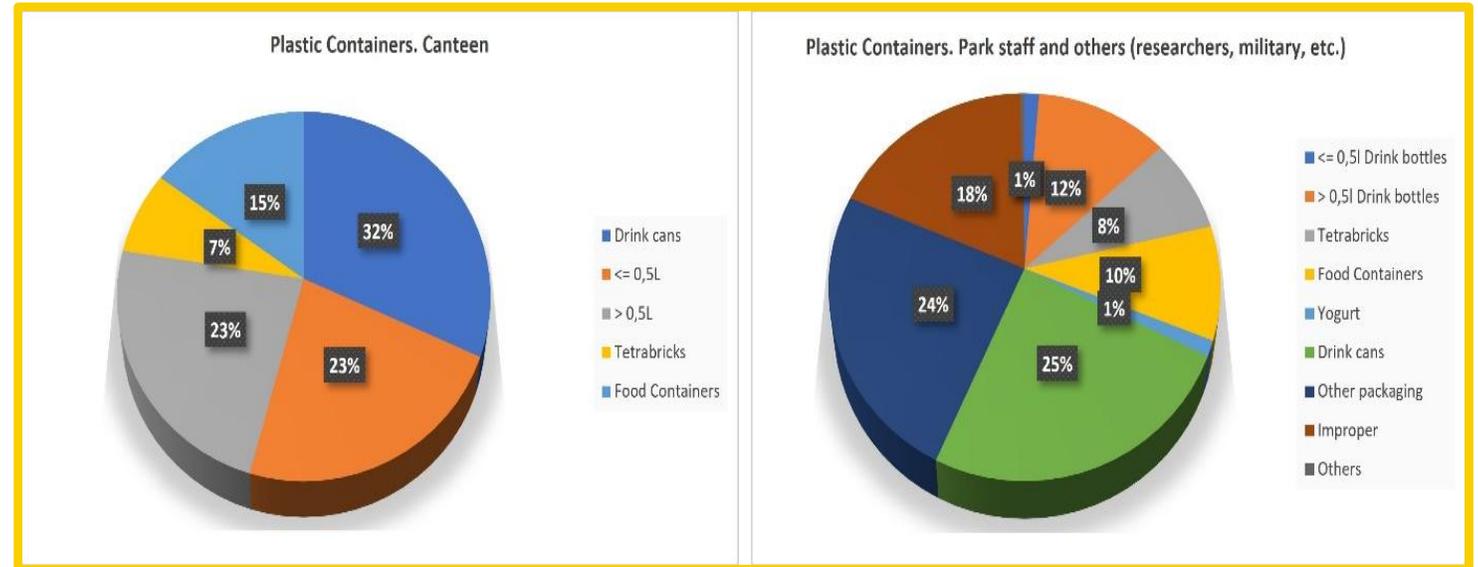


Setting up a scheme to phase out the use of single use plastics



Audits of the waste bin of the park's staff and the park's canteen

- In July 2020 a total of 10.3 Kg of plastic were classified:
- 7.6 Kg from the waste bin of the park's staff container and 2.7 Kg from the waste bin of the park's canteen container
- 41% of the total litter recorded in the waste bin of park's staff were SUPs.
- 61% of the total litter recorded in the waste bin of the park's canteen were SUPs.



Best practices for replacing SUPs

- Cleaning products in bulk to reduce packaging waste
- Installing 9 water dispensers to minimize the amount of plastic water bottles used
- In the case of the SUPs used in the canteen, these were replaced by porcelain tableware. Compostable or cardboard plates, cutlery and cups are provided, when needed.



Alternatives to SUPs: Plastic Busters MPAs KITS

List of alternative products to SUPs must be:
local, in bulk and environmental friendly
Kit of selected products for the replacement



Reusable Drink Bottle



Personal Hygiene product kit:

Bamboo toothbrush, SFP 50 sunscreen bar, rosemary solid shampoo, olive and orange soap made in Mallorca.



Reusable Bags



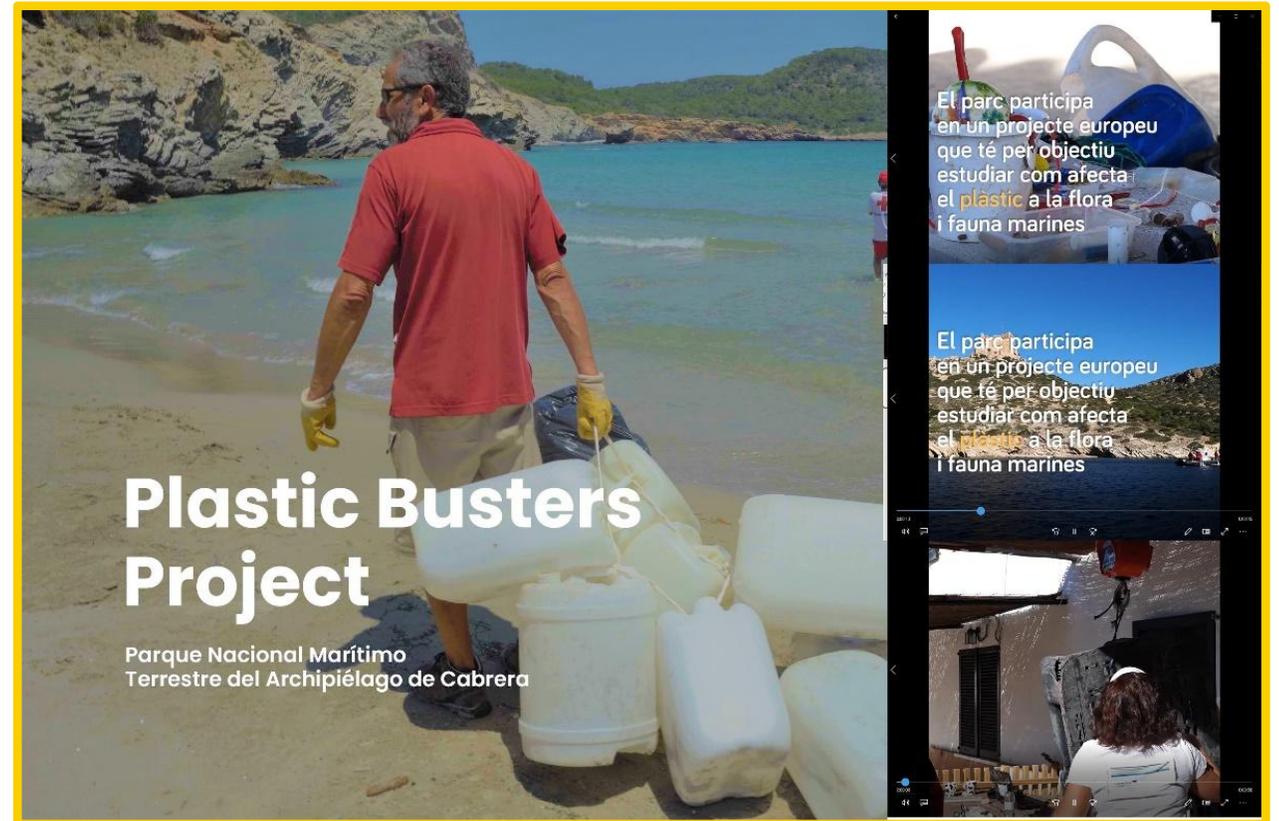
Park Staff and Volunteer Training

- Several workshops were held during the pilot action.
- Wide- ranging stakeholders, including park's staff members, coast guards, skippers, guides, maintenance personnel, soldiers, students and volunteers.
- More than 70 participants obtained new knowledge and skills related to marine litter monitoring methodologies, ML prevention and mitigation options and best practices on SUPs reduction.



Communication actions

- Plastic Busters MPAs Project newsletters, social networks.
- Informative video presented at IB3 in January 2021.
- Educational video about the Plastic Busters MPAs Project.



Capitalization Event – IV Scientific Conference



Plastic Busters MPAs Project Joint Presentation CAIB and IEO-CSIC

Online attendees: 52
Face-to-face attendees: 39
Total attendees: 91



Attendees: Regional Ministry for the Environment and Territory of the Balearic Government, Scientists, NGOs and general public



Signature of the Declaration of intent on joining the Plastic Busters Network



THE INTERREG MED PLASTIC BUSTERS MPAs PROJECT

<https://plasticbustersmpas.interreg-med.eu>



We, as representatives of our institutions and/or organizations,

Decide to **join the Plastic Busters Network**, a collaborative network of Mediterranean stakeholders that support the urgent need for transnational cooperation on the issue of marine litter in the Mediterranean, with special emphasis placed on Marine Protected Areas, by committing to:



4



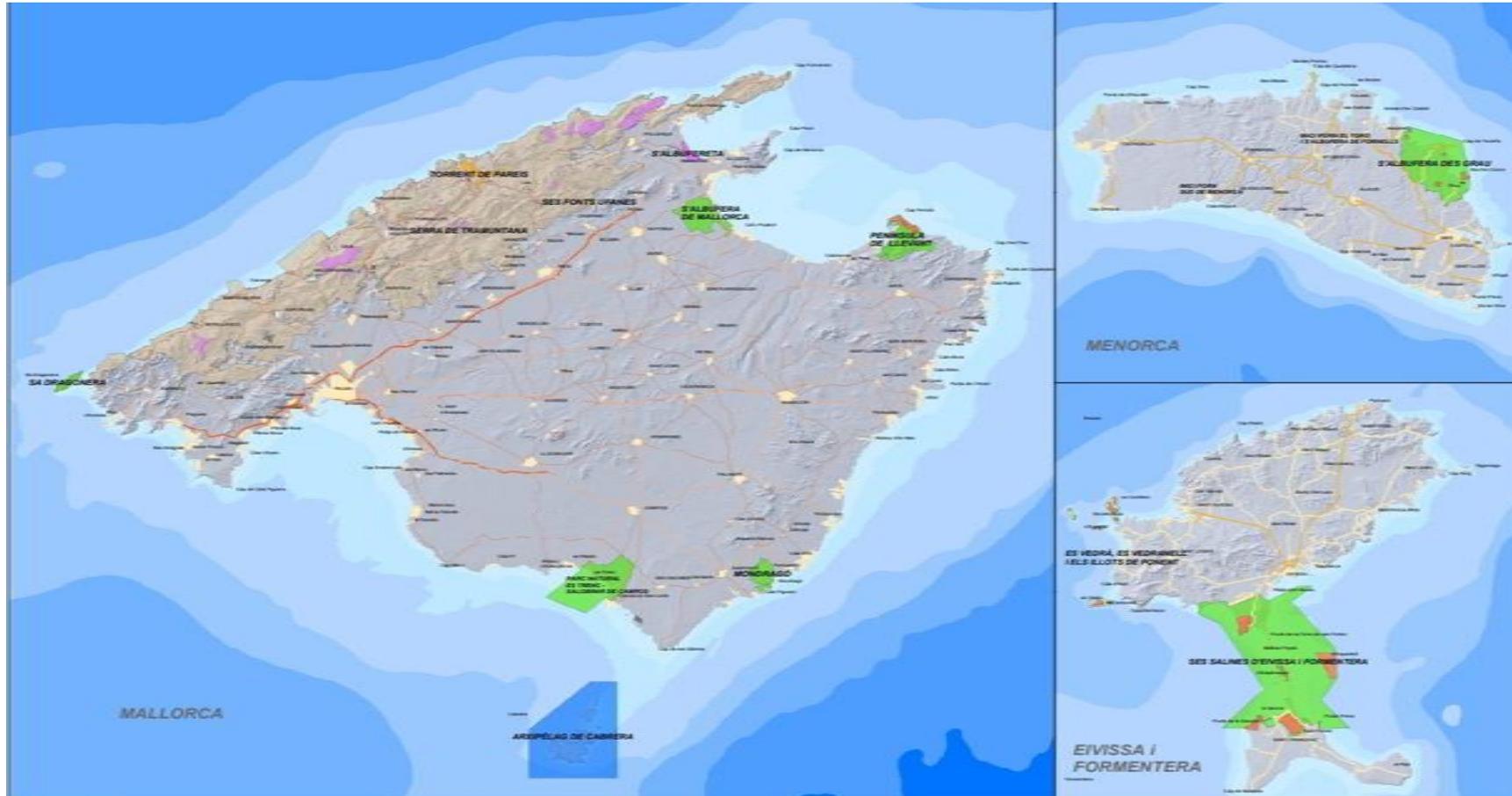
- ✓ **Actively share updates, ideas, information and – to the extent possible – data within the network;**
- ✓ **Exchange knowledge, experiences, best practices and expertise** (e.g., via training activities);
- ✓ **Seek and/or create opportunities** for a collective and collaborative effort towards 1) increasing knowledge and understanding of the sources, origin, and pathways of marine litter and 2) reducing Marine Litter pollution;
- ✓ **Invite other interested parties** that share the vision and commitment of the network to join the network.

Name of the institution/acronym, here represented by **Mr/Ms**.

Signature/date



9 Natural Parks of the Balearic Islands Signed



Mallorca

- **Paratge Natural de la Serra de Tramuntana**
- **Parc Natural de Mondragó**
- **Parc Natural s'Albufera Mallorca i RN s'Albufereta**
- **Parc Natural de sa Dragonera**
- **Parc Natural de la Península de Llevant**
- **Parc natural d'Es Trenc-Salobrar de Campos**



Menorca

- Parc Natural s'Albufera des Grau



Eivissa i Formentera

- Parc Natural de Ses Salines d'Eivissa i Formentera
- Reserves naturals des Vedrà, es Vedranell i dels illots de Ponent



Lessons Learned

- **Even pristine and most protected marine areas are affected by marine litter. Marine biota it's exposed to toxicity by chemicals coming from plastic degradation.**
- **Most of the marine litter collected in Cabrera is plastic and mainly comes from recreational and touristic activities.**
- **Educational activities, and citizen science actions provides a powerful tool for mobilizing and engaging local communities and visitors in the collective fight against marine litter.**
- **Changes in consumption can yield lasting results, decreasing the amount of waste that turns into marine litter.**
- **Sharing experiences and lessons learned with other administrations can be instrumental to increase the impact of current actions.**



Continuity to reach long-standing impact

- Annual audits in the plastic waste bin to monitor the effectiveness of the measures put in place.
- Promote good practices for visitors.
- Quarterly marine litter monitoring campaigns on beaches with simplified methodological protocols deployed.
- Incorporate the cost of the Plastic Buster Kit in the park annual budget to give the kit to the staff every year.
- Joint collaboration between park staff, military personnel, divers and volunteers. We need to work collectively, hand-by-hand.





@PlasticB_MPA



@PlasticBustersMPAs

Thank You!

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