



United Nations
Environment Programme



Mediterranean Action Plan
Barcelona Convention



COAST DAY



MINISTRY OF AGRICULTURE
RURAL DEVELOPMENT
AND THE ENVIRONMENT



DEPARTMENT OF
ENVIRONMENT

SEAWatcher

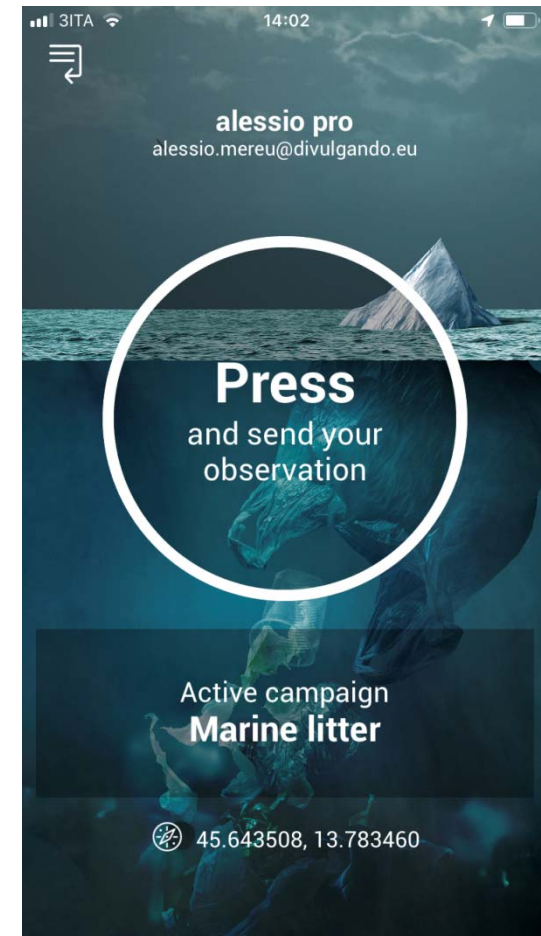
The web and mobile geographical data
application on Marine Litter

Alessandro Lotti & Anna Di Noi – INFO/RAC
Ayia Napa, 25 September 2019



SEAWatcher – Introduction

INFO/RAC and the Department of Life Sciences of the University of Trieste undertake to implement the application that will be integrated in the InfoMAP system to collect mainly the geographical data on "MARINE LITTER" (IMAP Indicator EO10 and Descriptor 10 of the Marine Strategy Framework Directive) through the development of a multilingual APP (English, French, Arabic and Italian) for the collection of georeferenced information





SEAWatcher – General Concept

1. Create an open-source application that allows INFO/RAC to link in the next future also other topic or IMAF indicators;
2. Providing a mobile app extensible, where the user can select a topic and enter in a specific form to acquire and send information to UNEP/MAF;
3. Enforce the visibility of UNEP/MAF and the message of “Communication as One”;
4. Interlink the activities in the Barcelona Convention framework;
5. Enlarge participation to citizens and stakeholders



SEAWatcher – General Concept

A management system of the objects/bodies of the notifications, which will allow not only to organise the data of the objects but also to manage the reports, namely:

- to receive the reports sent by the users' devices
- to organise them by body/object
- to organise them by activity or signalling campaign
- to allow the verification and validation to a panel of selected experts



SEAWatcher – General Concept

A web/APP and web/USER communication system that allows:

- to receive information from the network (news, general info, data from other RAC sites, data on species and active campaigns, etc.)
- to send communications on the status of the reports from the management software to users both via the APP and via e-mail



SEAWatcher – General Concept

An APP for iOS or Android mobile operating systems with the following functions:

- Registration
- Sending BASE reporting (with few fields, ideally 3-4)
- Send PRO reporting (max 15 additional fields with respect to the BASE reporting)
- Delayed sending of the report (due to lack of signal or user will)
- Information Section from INFO/RAC
- Descriptive section of the project



SEAWatcher – Registration and login



3ITA 14:01

Registration

Name

Surname

Email

Password

Retype password

User pro

Privacy

I declare that I have read: -
Information pursuant to Article 13

3ITA 14:01

Login

Email:

Password:

To change your profile or recover your password, write an email to:
info@seawatcher.eu

Language

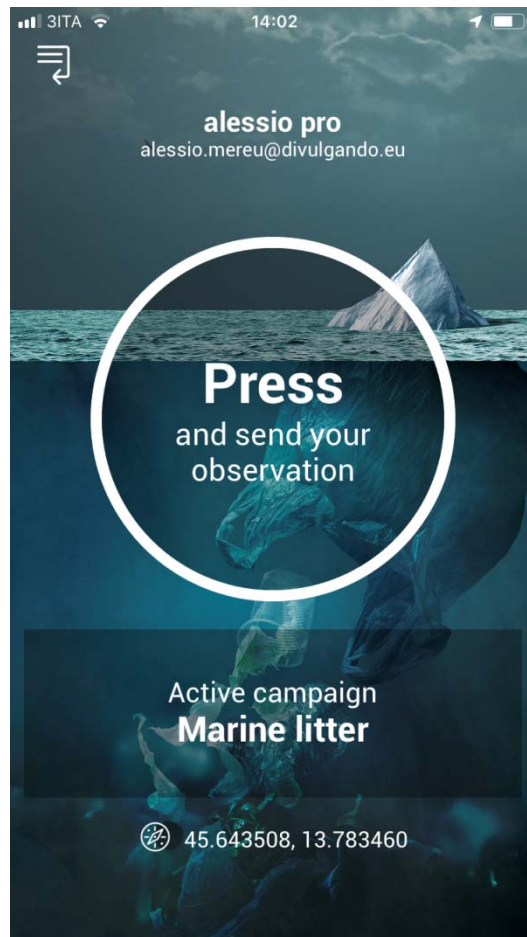
English Italiano Français

Access

Registration



SEAWatcher – Choose your campaign



Send observation

My observations

Active campaign

Invasive species

Campaigns list

Profile

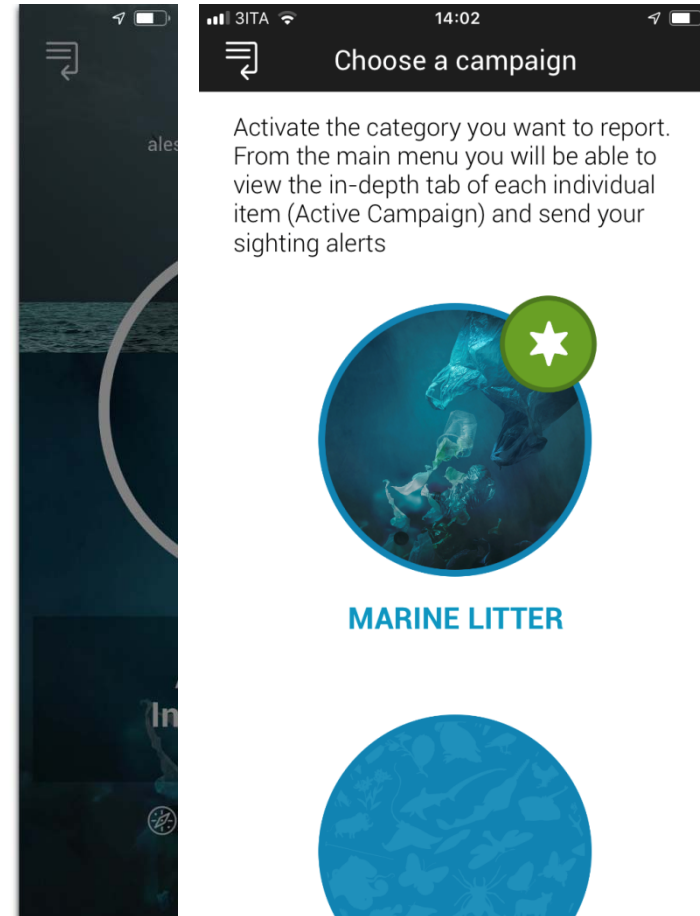
Registration

the Project

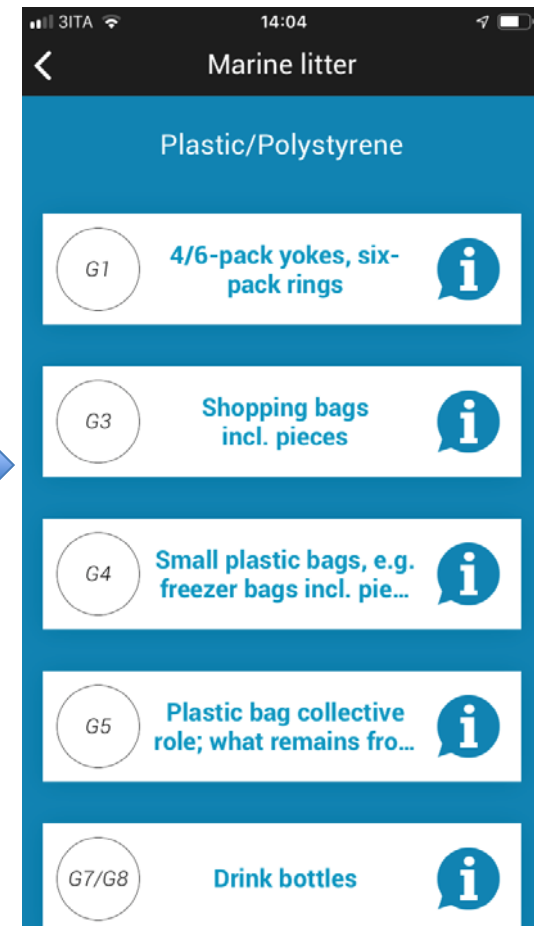
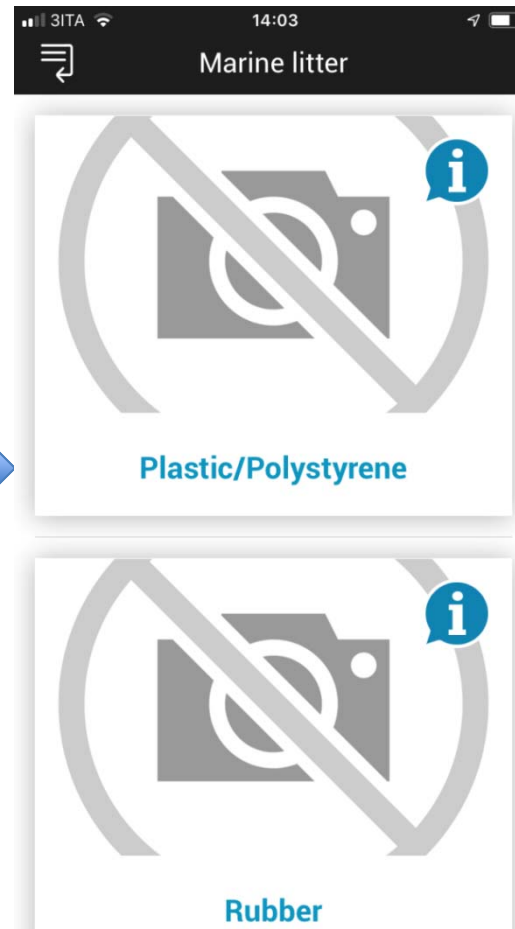
Credits

Logout

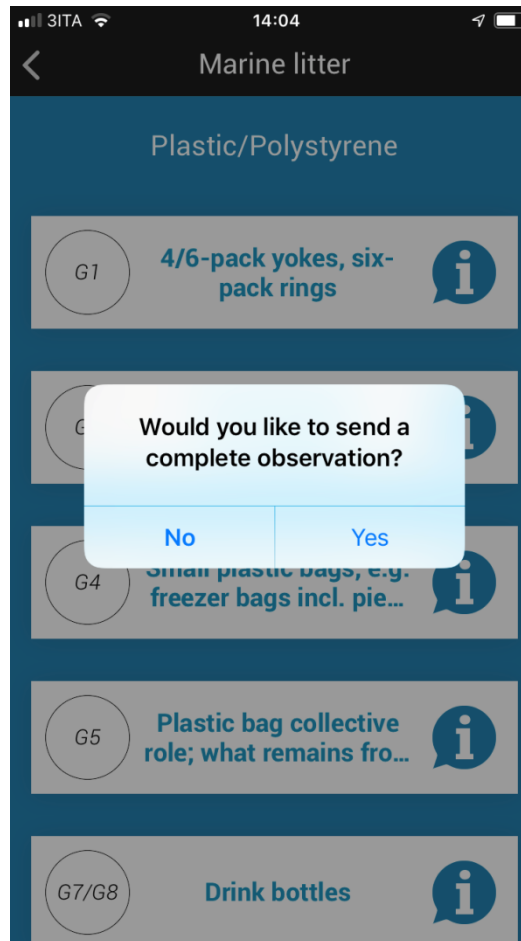
alessio pro



SEAWatcher – Start your observations



SEAWatcher – Complete your observation




SEAWatcher – Detailed information

3ITA 14:04

Marine litter


4/6-pack yokes, six-pack rings

Observation's coordinates (+/- 65 m)

 45.643521, 13.783464 Change

Additional details

Upload at least one photograph of the material



Detailed information

Would you like to use the saved data?

Yes No

Local people use i

3ITA 14:04

Marine litter

Detailed information

Would you like to use the saved data?

Yes No

Local people use i

No Seasonal Whole year round

Back of beach i

Sunbathing use i

No Seasonal Whole year round

Fishing use i

No Seasonal Whole year round

Surfing use i

No Seasonal Whole year round



SEAWatcher – Detailed information

3ITA 14:04

Marine litter

Other use ⓘ

Other use season

Seasonal Whole year round

Pedestrian access ⓘ

Yes No

Boat access ⓘ

Yes No

Vehicle access ⓘ

Yes No

Outlets beach ⓘ

Yes No

3ITA 14:45

Marine litter

Seasonal Whole year round

Pedestrian access ⓘ

Yes No

Boat access ⓘ

Yes No

Vehicle access ⓘ

Yes No

Outlets beach ⓘ

Yes No

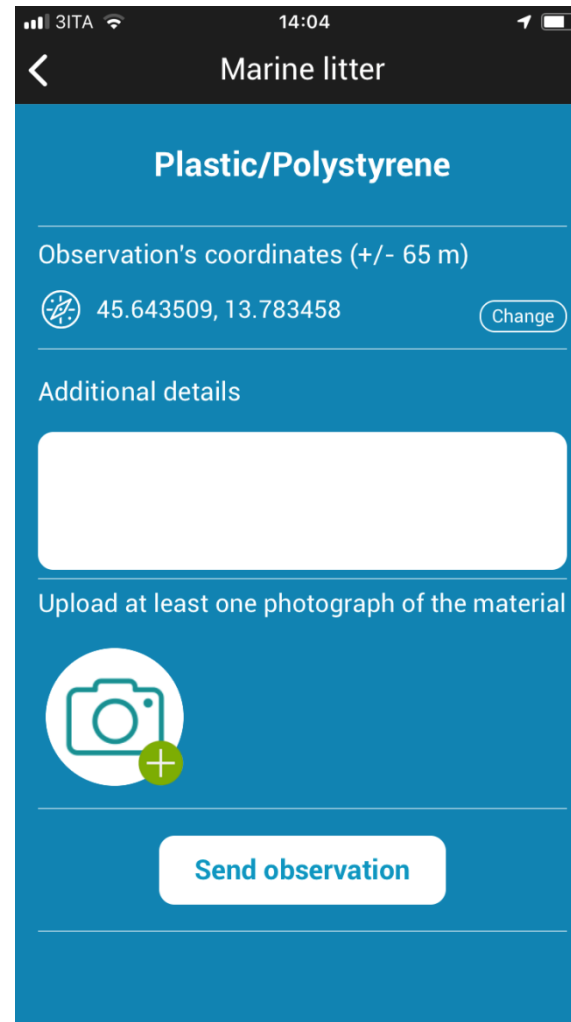
Outlets distance ⓘ

45.56

Send observation

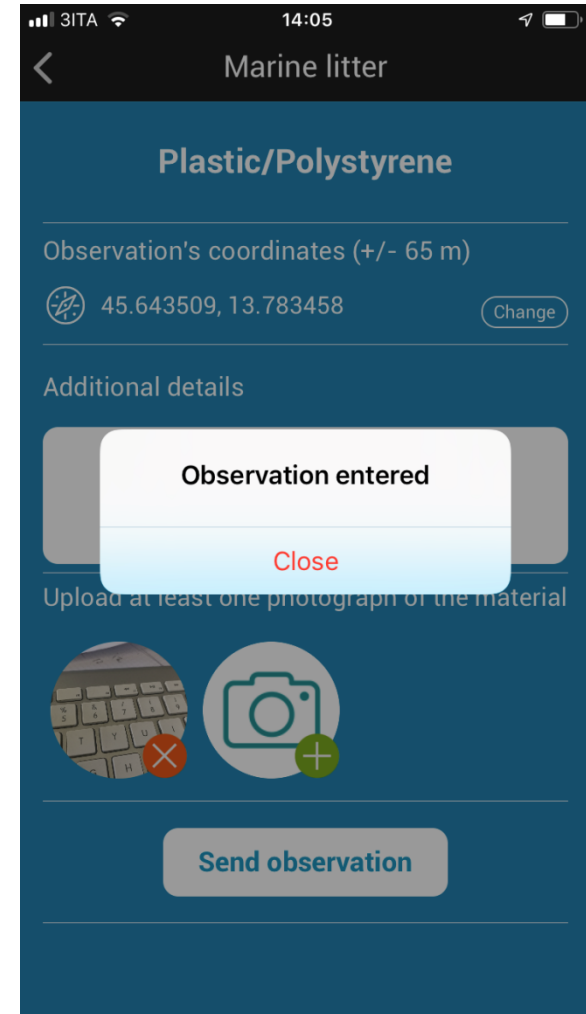
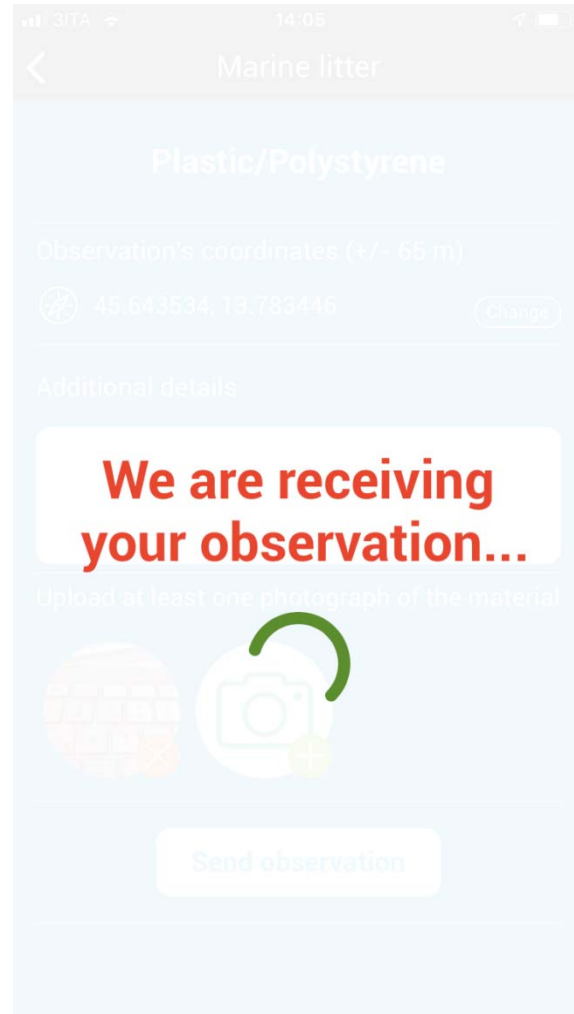
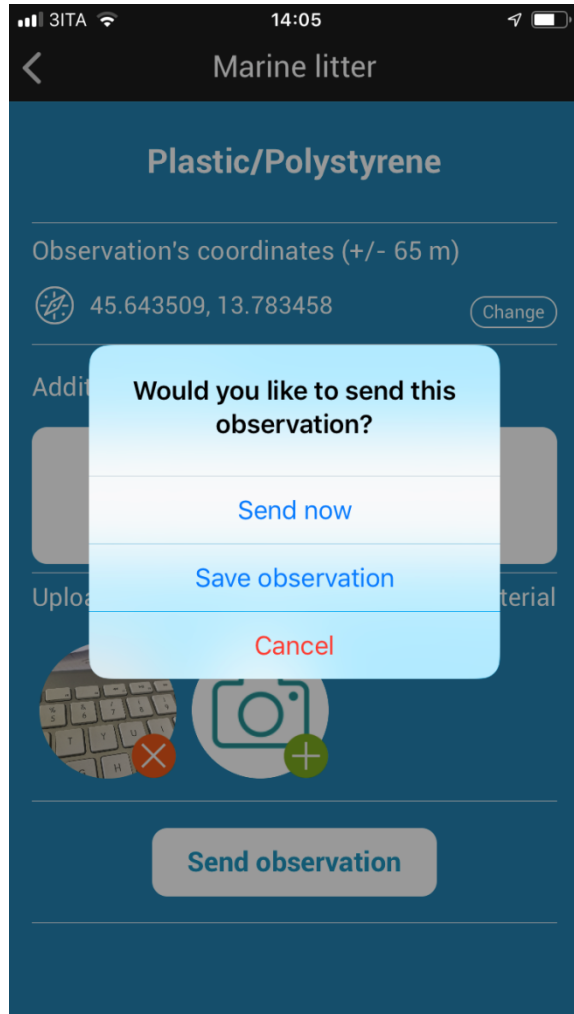


SEAWatcher – Basic observation



The screenshot shows the SEAWatcher mobile app interface for reporting a marine litter observation. At the top, the status bar shows signal strength, 3GTA, Wi-Fi, the time 14:04, and battery level. The app header is a dark blue bar with a back arrow and the text "Marine litter". Below this is a blue section with the title "Plastic/Polystyrene". Underneath, it says "Observation's coordinates (+/- 65 m)" followed by a location pin icon and the coordinates "45.643509, 13.783458", with a "Change" button to the right. A section titled "Additional details" contains a large white text input field. Below the input field, it says "Upload at least one photograph of the material" and features a camera icon with a green plus sign. At the bottom of the form is a white button with the text "Send observation".

SEAWatcher – Send observation





SEAWatcher – Backend system

Dashboard Observations Campaigns Macrocategories Users Users app Logout

SEAWatcher

Home Support Divulgando

Observations

2 TODAY 2 YESTERDAY 30 LAST 30 DAYS

TODAY YESTERDAY LAST 30 DAYS

Date	Name	
20/09/2019	Shopping bags incl. pieces	Go to obs
20/09/2019	4/6-pack yokes, six-pack rings	Go to obs

Observations (invasive)

0 TODAY 0 YESTERDAY 15 LAST 30 DAYS

TODAY YESTERDAY LAST 30 DAYS

Date	Name
------	------





SEAWatcher – Backend system

Dashboard Observations Campaigns Macrocategories Users Users app Logout

SEAWatcher

Home / Observations Support Divulgando

Search: Type to filter... Show 10 observations per page

Image	Name	Status	Date	Action
	Shopping bags incl. pieces	Received	20/9/2019 - 14:05	⋮
	4/6-pack yokes, six-pack rings	Received	20/9/2019 - 14:05	⋮
	Shopping bags incl. pieces	Received	19/9/2019 - 17:23	⋮
	Shopping bags incl. pieces	Received	19/9/2019 - 15:49	⋮
	4/6-pack yokes, six-pack rings	Received	18/9/2019 - 16:17	⋮
	Other rubber pieces	Received	17/9/2019 - 15:29	⋮
	Paraffin/Wax	Received	17/9/2019 - 15:13	⋮
	Cardboard (boxes & fragments)	Received	17/9/2019 - 15:07	⋮
	4/6-pack yokes, six-pack rings	Validated	17/9/2019 - 15:01	⋮



SEAWatcher – Video tutorial





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Thank you very much!

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