

# ASSESSMENT OF DEPOLLUTION COSTS FROM THE NETWORK OF SEASHORE CLEANUP STATIONS



TAHO'E ECO ORGANISATION | 2022 T.E.O.

# A STRUCTURING APPROACH INITIATED IN "NEW AQUITAINE"

Professional management of the sheashore cleanup stations provides a view of the areas of accumulation and estimates the daily quantities of plastic material washed up on the coastline.

This deployment of seashore cleanup stations, combined with data acquisition, owes its success to citizen participation and the development of a network of "integration companies" that collect marine waste.

The INAE association makes it possible to identify the integration structures present in each territory





















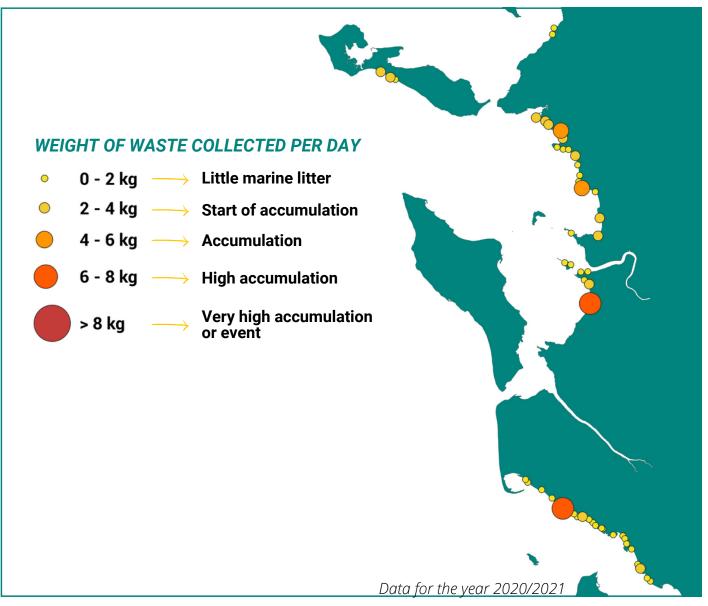


### A DOUBLE GOAL ACHIEVED.

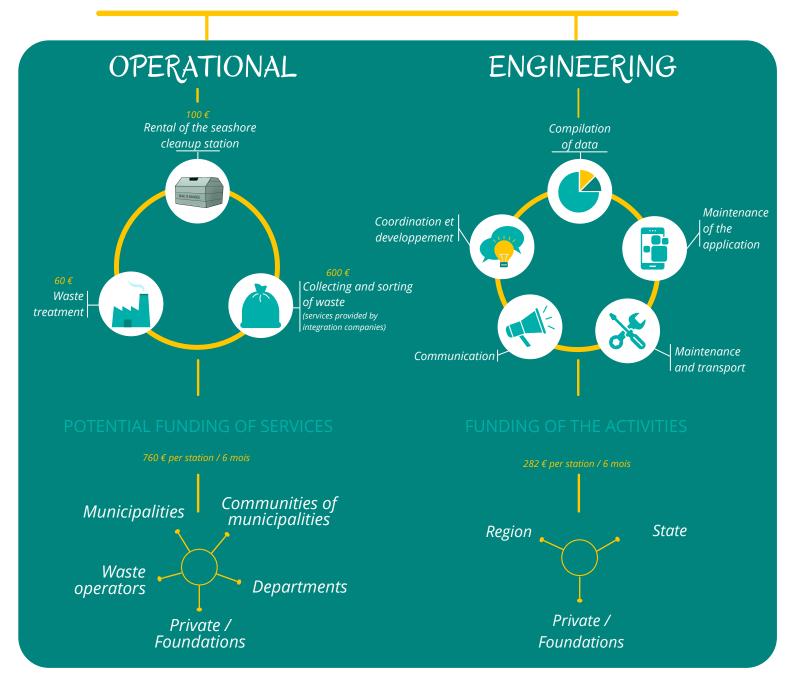
- 1. The state of accumulation of marine litter washed up on the coastline or the anthropogenic pressure of plastics.
- 2. The cost of collecting per kilo and the economic impact of this pollution.

The daily accumulation indicator in kg/day, translates into daily accumulation per km of coastline, as we estimate that the perimeter of effectiveness of a seashore cleanup station is one linear kilometre.

#### THE TEO SCALE OF MARINE LITTER ACCUMULATION



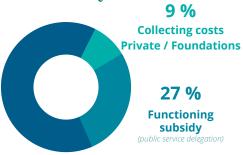
# DETAILS OF COSTS EXCLUDING TAXES FOR A 6 MONTH CAMPAIGN



## **CURRENT MODEL --> €1042 EXCL.TX AFTER 3 YEARS OF EXPERIMENTATION**

SIX-MONTH CAMPAIGN FOR ONE STATION

64 %
Collecting costs
(municipalities,
communities of
municipalities,
departments)



FOR THE 2021/2022 CAMPAIGN, THE COST PER 100 STATIONS WOULD BE --> €104,200 EXCL.TX

9 378 €
Collecting costs
(municipalities,
communities of
municipalities,
departments)

9 378 €
Collecting costs
Private / Foundations

28 134 €
Functioning subsidy
(public service delegation)

# **BUSINESS MODEL BY TERRITORY**

AT 01.10.21



67 % **Collecting costs** 



6 %

**Private / Foundations** 

27 %

**Functioning** subsidy

#### **CDA OF LA ROCHELLE**

15 %

**58** % **Collecting costs** 



**Private / Foundations** 

27 % **Functioning** 

subsidy

#### **ROCHEFORT OCÉAN**

63 % **Collecting costs** 



10 %

**Private / Foundations** 

27 %

Functioning subsidy

#### **ROYAN ATLANTIQUE**

58 %

**Collecting costs** 



**15 %** 

**Private / Foundations** 

27 %

**Functioning** 

subsidy

#### **DEPARTMENT OF GIRONDE**

73 %

**Collecting costs** 

**Private / Foundations** 

27 %

Functioning subsidy

#### **DEPARTMENT OF LANDES**

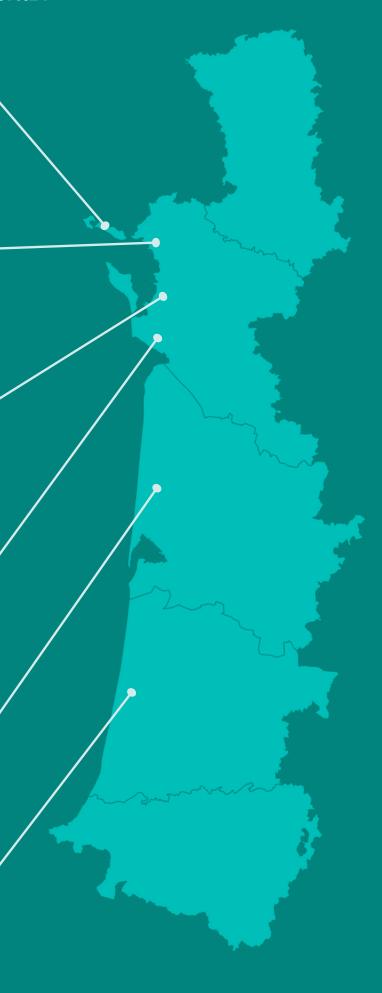
73% **Collecting costs** 

0 %

**Private / Foundations** 

27 %

Functioning subsidy



### THE RESULT OF THE DATA

#### FROM 3 CAMPAIGNS OF 6 MONTHS QVER 3 YEARS OF COMPILED DATA

50 stations
64 000 kg of waste collected over 3 years
approximately 426 kg of waste
collected per 6-month campaign

#### AN AVERAGE OF 2.327 KG OF WASTE COLLECTED PER DAY

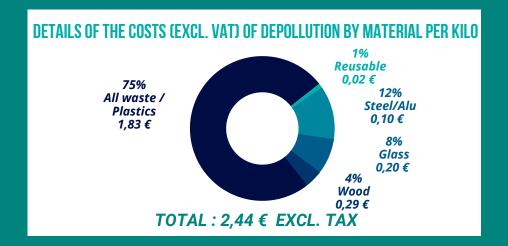
Note: There are sometimes significant disparities between the different containers depending on the accumulation areas.

# ESTIMATION BY EXTRAPOLATION OF THE TOTAL QUANTITIES OF WASTE WASHED UP ON THE CHANNEL AND ATLANTIC COASTS (4159 KM)

We believe that an average of 7 tonnes are stranded per day between Dunkirk and Hendaye

### = 2 657 tons / year

Of which in New Aquitaine 620 tonnes
Of which in Charente-Maritime 268 tonnes



Estimated cost of this clean-up as a minimum 4 MILLION PER YEAR



# WITHOUT CITIZEN PARTICIPATION THIS COST WOULD DOUBLE!

# RECOMMENDATIONS

# To optimise the network and facilitate the compilation of data



Install the seashore cleanup stations for a minimum of 6 months - October to March.

(period of strong winds and important beachings - if possible out of nesting periods and out of very touristic periods)



Install the stations as close to the coast as possible and keep them away from car parks to avoid household waste.



**Encourage links** between citizens, elected representatives, local authorities and integration companies or associations.

(in the form of local committees for example)



Use signage reminding people that the **seashore cleanup stations are not bins** but indicators of the ecological state of the coastline.



Do not recycle the waste. Most of the beached plastics are potentially harmful because they are loaded with Persistent Organic Pollutants, heavy metals, additives etc... it is therefore preferable not to recycle them or to make them into art objects to avoid spreading micro-pollutants. This is a precautionary principle.

# **OUTLOOK**



Install 100 seashore cleanup stations per coastal region to assess the costs of clean-up more accurately.



Communicate on the price of clean-ups based on the idea that one kg of plastic abandoned in nature will cost local authorities approximately 2 euros/kg collected (2000 €/tonne), hence the importance of implementing prevention policies.



**Propose that EPR** (Extended producer responsibility) pay for collection and treatment.



**Create a "post-storm" alert** on the BAM network to increase efficiency and mobilise integration companies and volunteers "occasional collaborators of a public service".



To open the "Environmental Engineering Worker" course, with the option of preserving the environment in the context of plastic pollution.

#### **CONTACTS**

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