



SURFRIDER
FOUNDATION

ENVIRONMENTAL REPORT

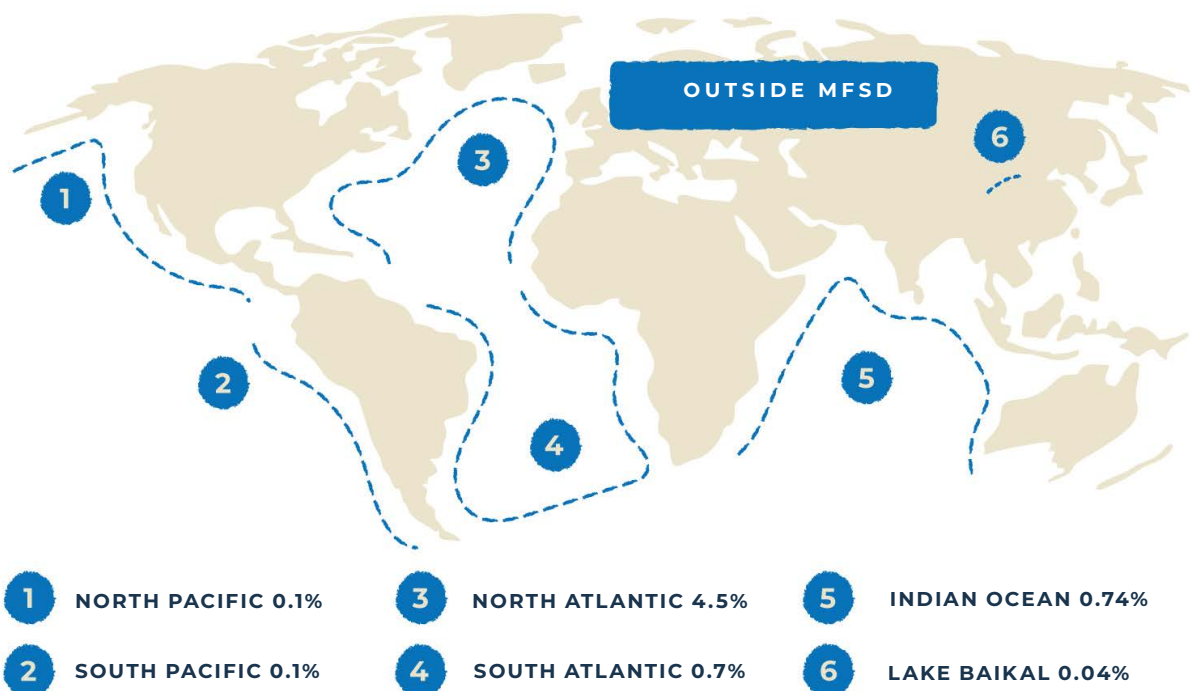
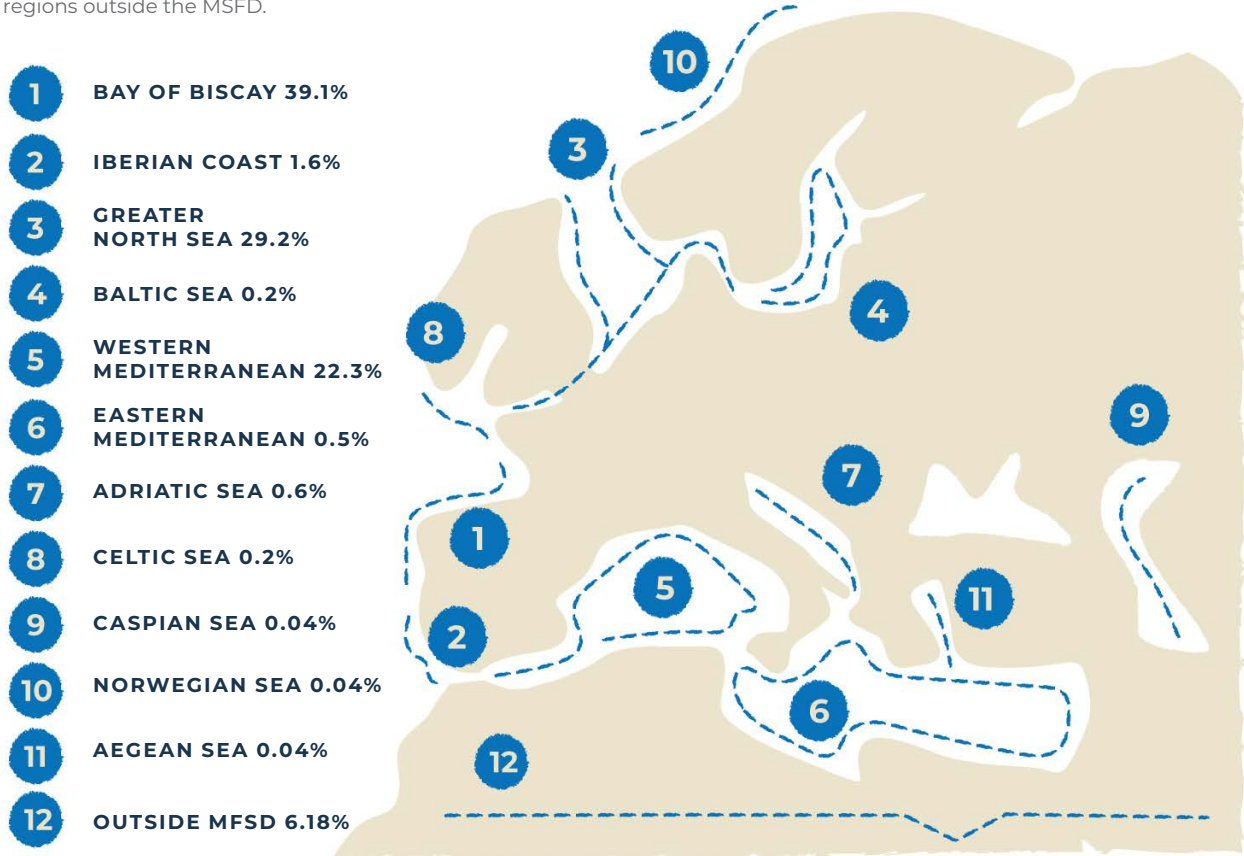
OCEAN INITIATIVES 2023



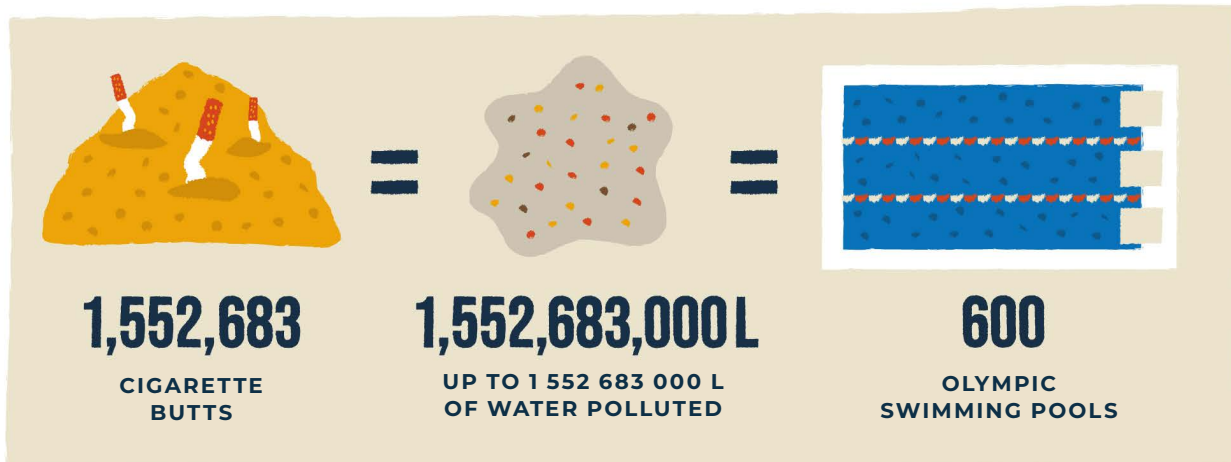
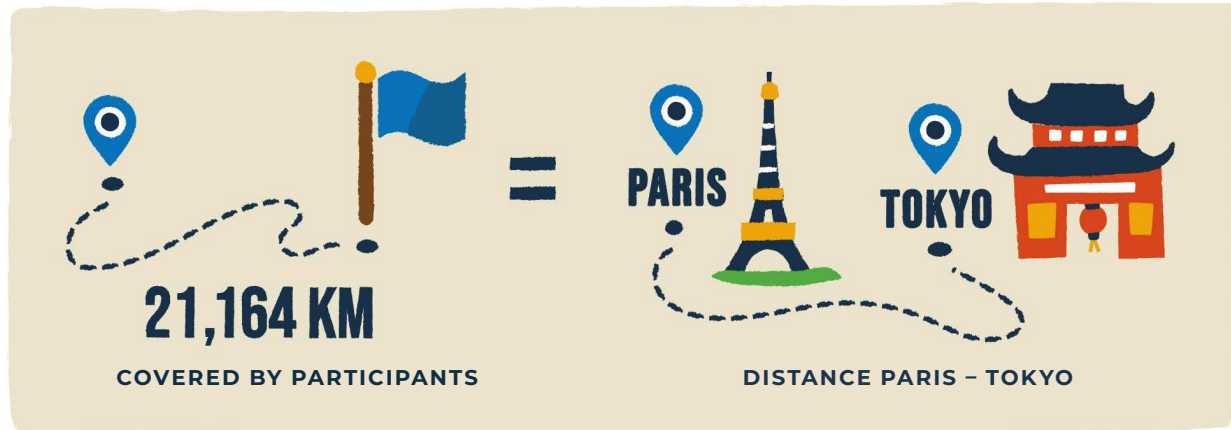
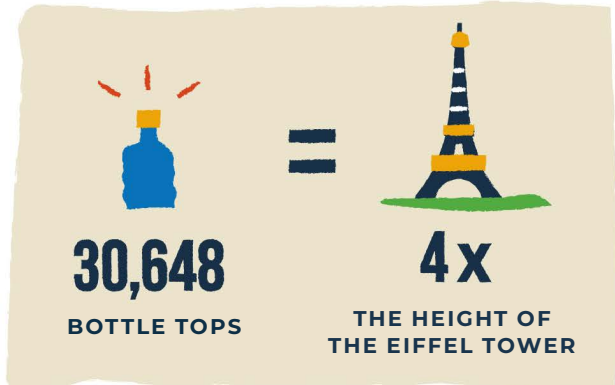
WHERE DID LITTER COLLECTIONS TAKE PLACE?

NUMBER OF COLLECTIONS: 2,461

To present the regions where collections took place the area was divided into two parts: one part focusing on, the major maritime areas in Europe as defined by the Marine Strategy Framework Directive (MSFD) and another part focusing on regions outside the MSFD.



OCEAN INITIATIVES 2023 IN FIGURES



QUANTIFICATION

For several years now, we've asked Ocean Initiatives participants to take part in a community science operation by completing a report form in order to better understand the state of European and world coastlines in relation to marine litter. To do this, participants were asked questions about their collection site and to quantify 35 types of litter categorised by material and usage. This list is based on the master list of the harmonised European protocol and on the most frequently found litter items on European beaches.



KEY FIGURES



23,452

PARTICIPANTS

6,359

WERE SCHOOL CHILDREN



523.5 KM

DISTANCE ANALYSED



2,140,735

NUMBER OF LITTER ITEMS QUANTIFIED



71%

OF LITTER COLLECTED IS SINGLE-USE WASTE. SINGLE USE REFERS TO OBJECTS INTENDED TO BE USED ONLY ONCE (E.G. PLASTIC BOTTLES OR STRAWS)



22%

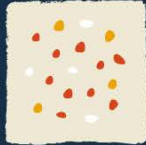
OF THE LITTER COLLECTED IS UNIDENTIFIABLE WASTE OR FRAGMENTS

TYPES OF LITTER, QUANTIFIED

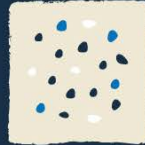
TOP 10



1,552,683
CIGARETTE
BUTTS



113,863
PLASTIC
FRAGMENTS
2.5-50 CM



95,935
POLYSTYRENE
FRAGMENTS
2.5-50 CM



62,713
FISHING:
NETS/TANGLED
ROPES



43,562
METAL
CAPS



32,520
PIECES
OF GLASS



32,443
PLASTIC BAGS
AND FRAGMENTS



30,648
BOTTLE
TOPS



27,740
FOOD
CONTAINERS



27,485
SWEET/SNACK
WRAPPERS



17,680
Cans



12,667
Cotton
buds



12,125
Glass
bottles



9,232
Plastic bottles
≤ 0,5 CL



7,971
Plastic bottles
> 0,5 CL



7,312
Lollipop
sticks



6,960
Pieces
of metal



5,154
Wet
wipes



4,839
Pieces
of fabric



4,552
Fishing:
lines/hooks
bait boxes



4,552
Lighters



4,199
Plastic
cups



4,163
Shellfish
farming waste



2,358
Hunting
cartridges



1,822
Medical
packaging



1,610
Toys



1,547
Plastic
plates



1,546
Plastic
cutlery



1,319
Other plastic
bottles



1,129
Single use
masks



1,047
Balloons



702
Shoes



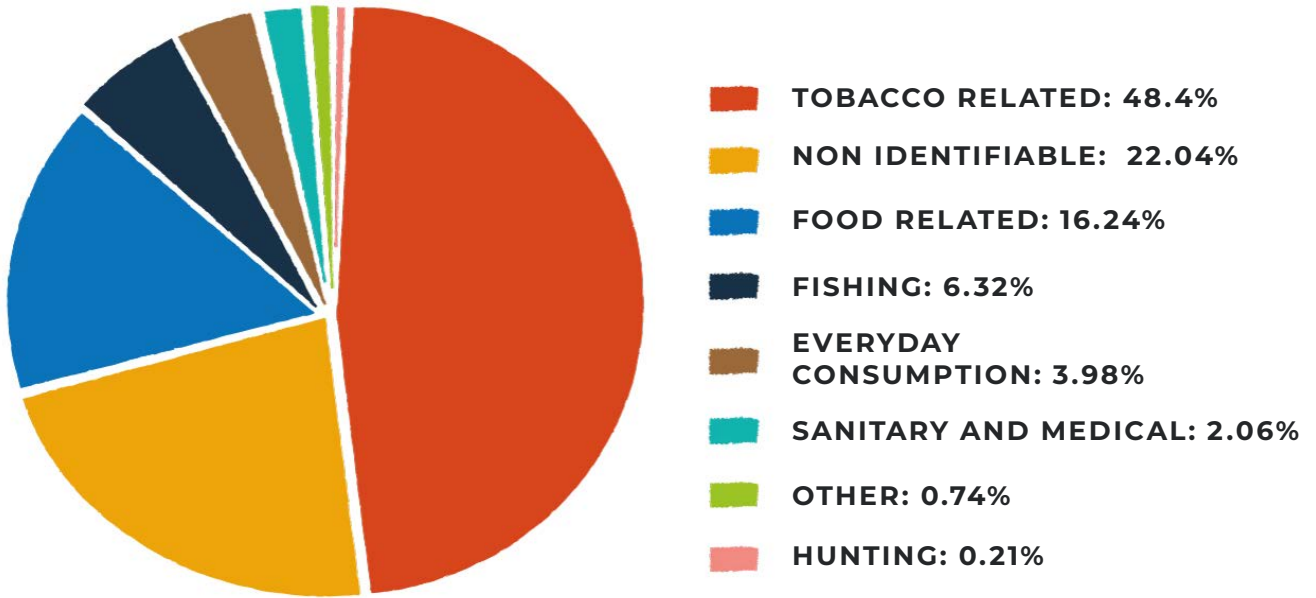
603
Stirrers



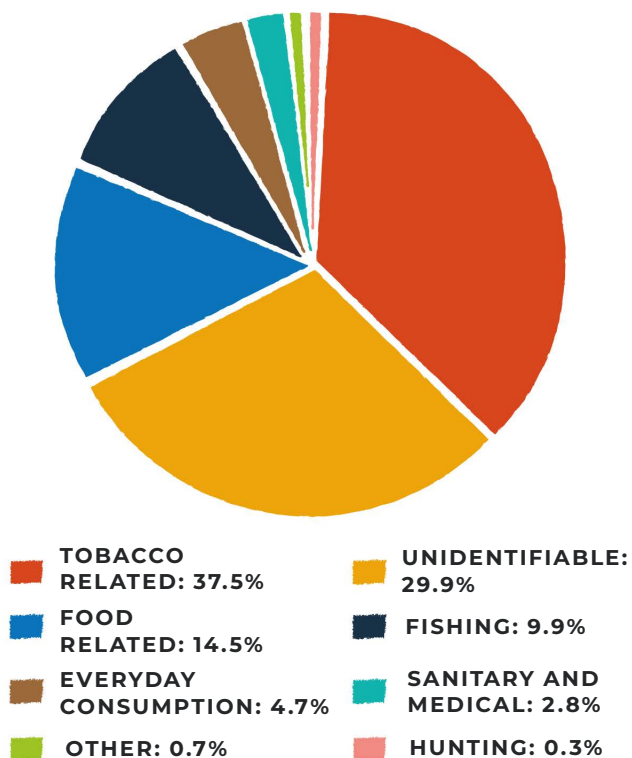
409
Tyres

TYPES OF LITTER COLLECTED BY USE

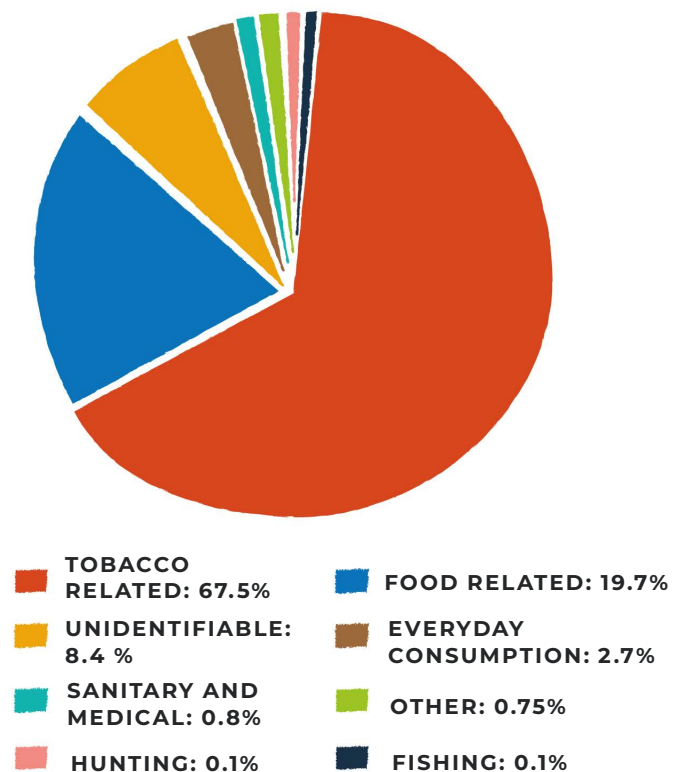
GLOBAL DISTRIBUTION



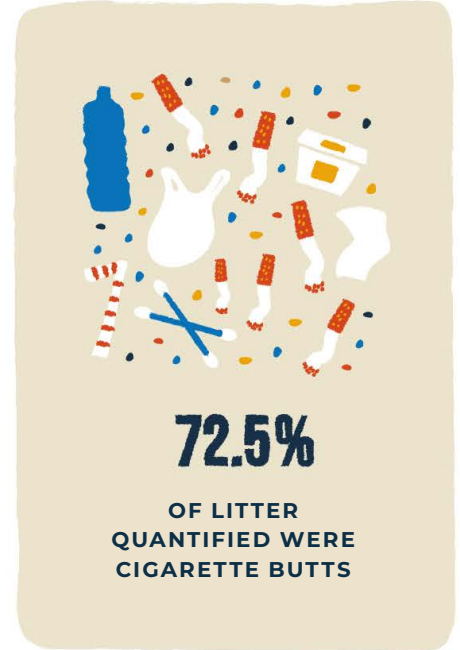
COAST



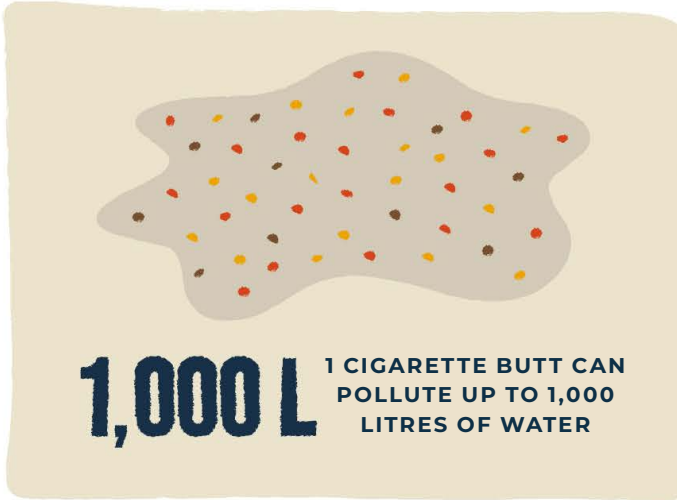
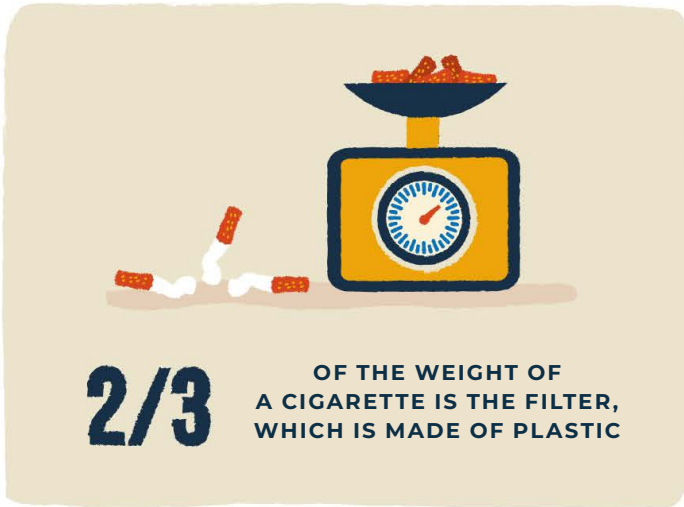
INLAND



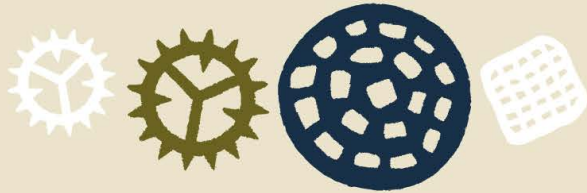
CIGARETTE BUTTS



PLASTIC AND CHEMICAL POLLUTION



BIOCARRIERS



PLASTIC OBJECTS USED AS A SUPPORT FOR BACTERIA TO BREAK DOWN ORGANIC MATTER

USE



WASTEWATER TREATMENT PLANT
(Collective sanitation)



INDUSTRIAL WATER TREATMENT
(Fish farming, food production, paper/cardboard production and transformation, pharmaceuticals and hospitals, production of phytosanitary products, hydrocarbon extraction and processing)

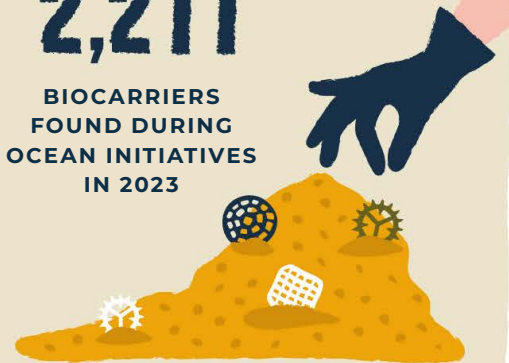


POLLUTION

DURING FLOODS, INTENSE STORMS, PEAK TOURIST PERIODS GENERATING LARGE FLOWS OF WATER OR WHEN INFRASTRUCTURE MALFUNCTIONS, BIOCARRIERS CAN END UP BEING DISCHARGED INTO THE ENVIRONMENT

2,211

BIOCARRIERS FOUND DURING OCEAN INITIATIVES IN 2023



3 POLLUTIONS IN 2023

NYKOPING
(SOUTH STOCKHOLM)

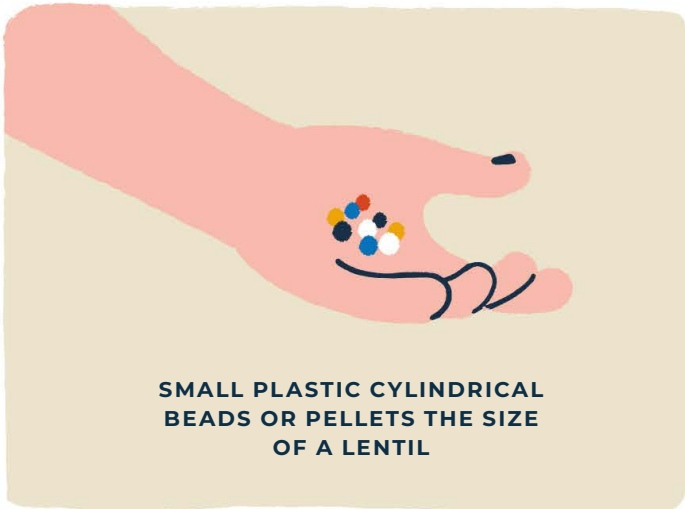
SAINT-NAZAIRE
(FRANCE)

BEAUFORT
SUR GERVANNE
(FRANCE)



MORE INFORMATION ABOUT BIOCARRIERS

PELLETS



MORE INFORMATION ABOUT PELLETS



*A big thank you to everyone involved,
without your participation none of this would be possible.*