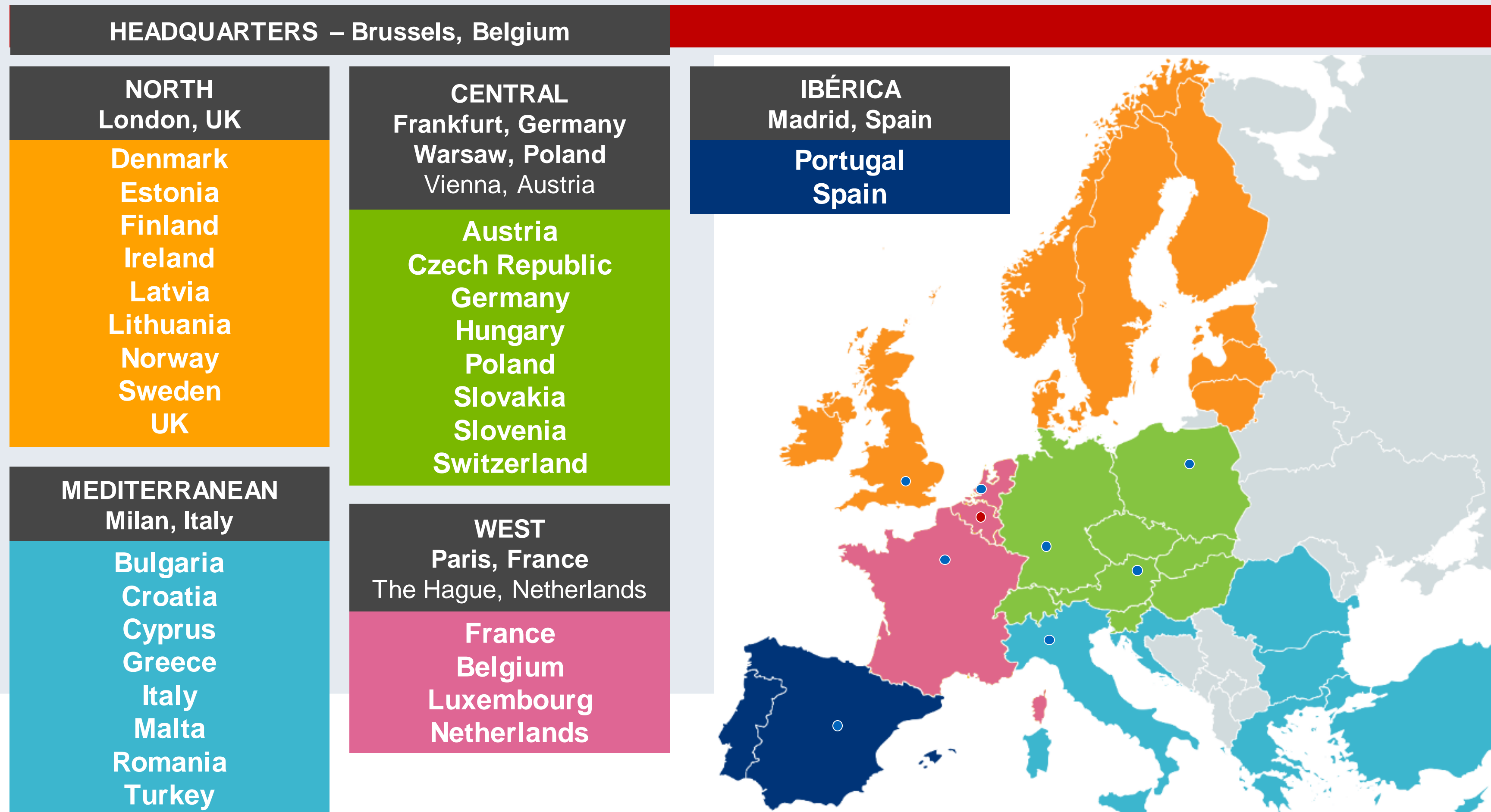


Operation Clean Sweep®

Zero pellet, flake and powder loss

Ignacio Marco – General Director PlasticsEurope Iberia

PlasticsEurope is the pan-European organisation representing the European plastics raw materials producers at EU, regional and national level. Our members represent more than 90% of the plastics raw materials production in Europe.



Existing benefits



Issues to be solved



Today, the shortcomings of our industry are burying the benefits of our products in the public arena.

We have to tackle these issues in collaboration with all the stakeholders.

Between 4,8 and 12,2 milion tons of plastics enter the sea every year



80% comes from land

5 Asian countries produce 50%

Europe ≈ 1%

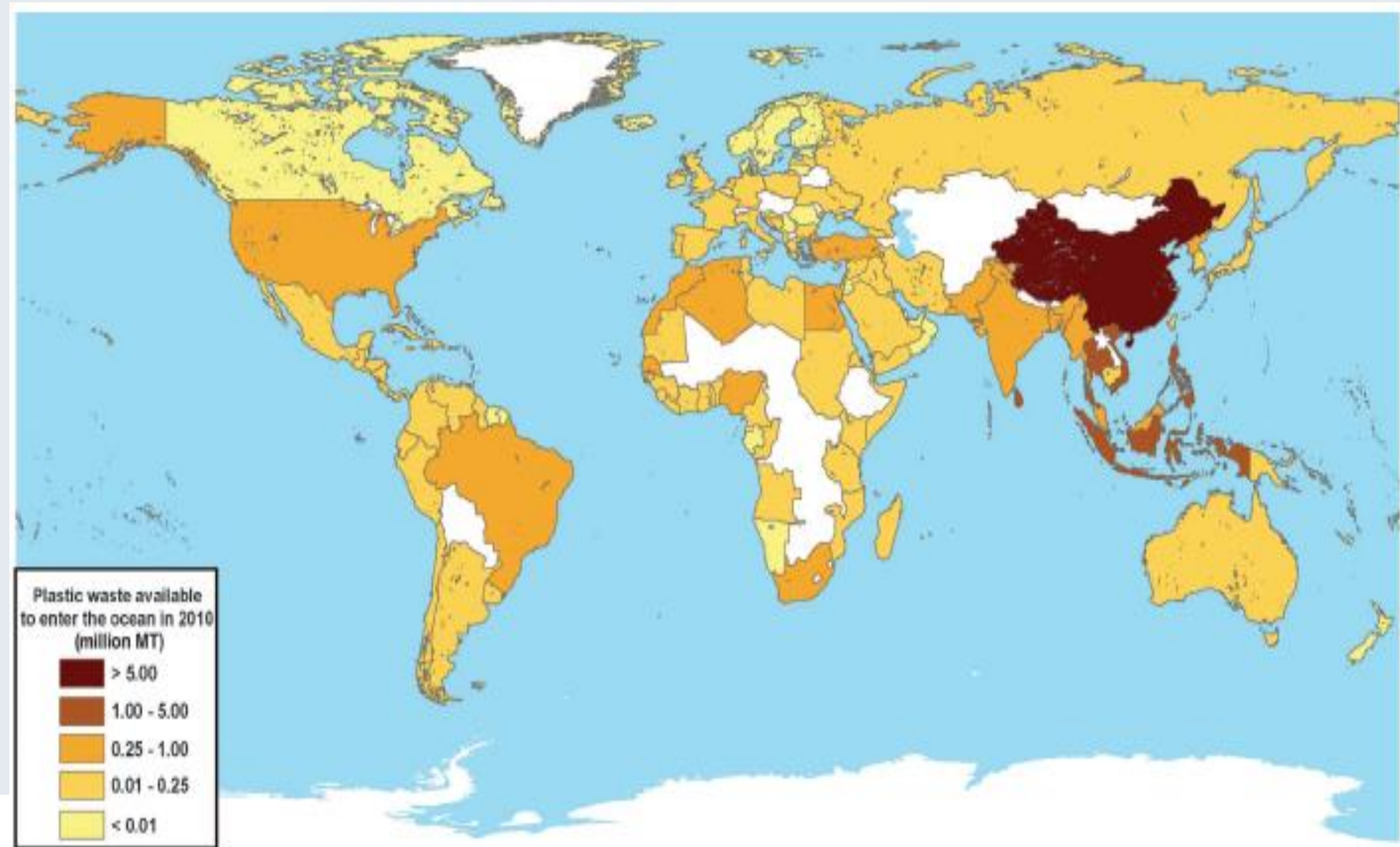


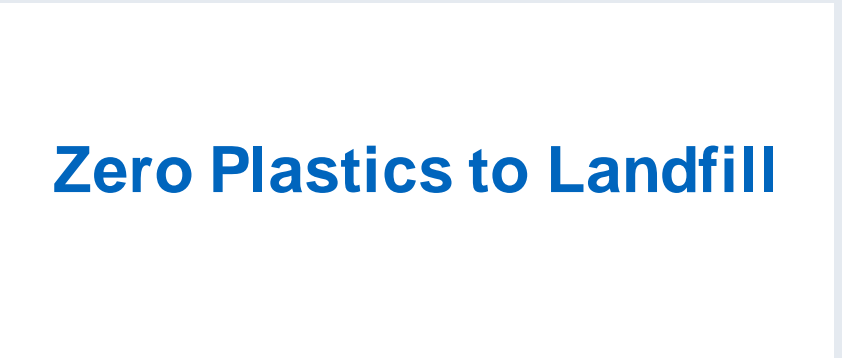
Fig. 1. Global map with each country shaded according to the estimated mass of mismanaged plastic waste [millions of metric tons (MT)] generated in 2010 by populations living within 50 km of the coast. We considered 192 countries. Countries not included in the study are shaded white.



The Global forum for Plastics Producers industry. Engaging in finding solutions to Marine Litter and improving waste management



More than 70 WW Associations signatories to address Marine Litter challenges



A key objective to achieve full plastic waste recovery



Declaration signed on Sep 20th 2019

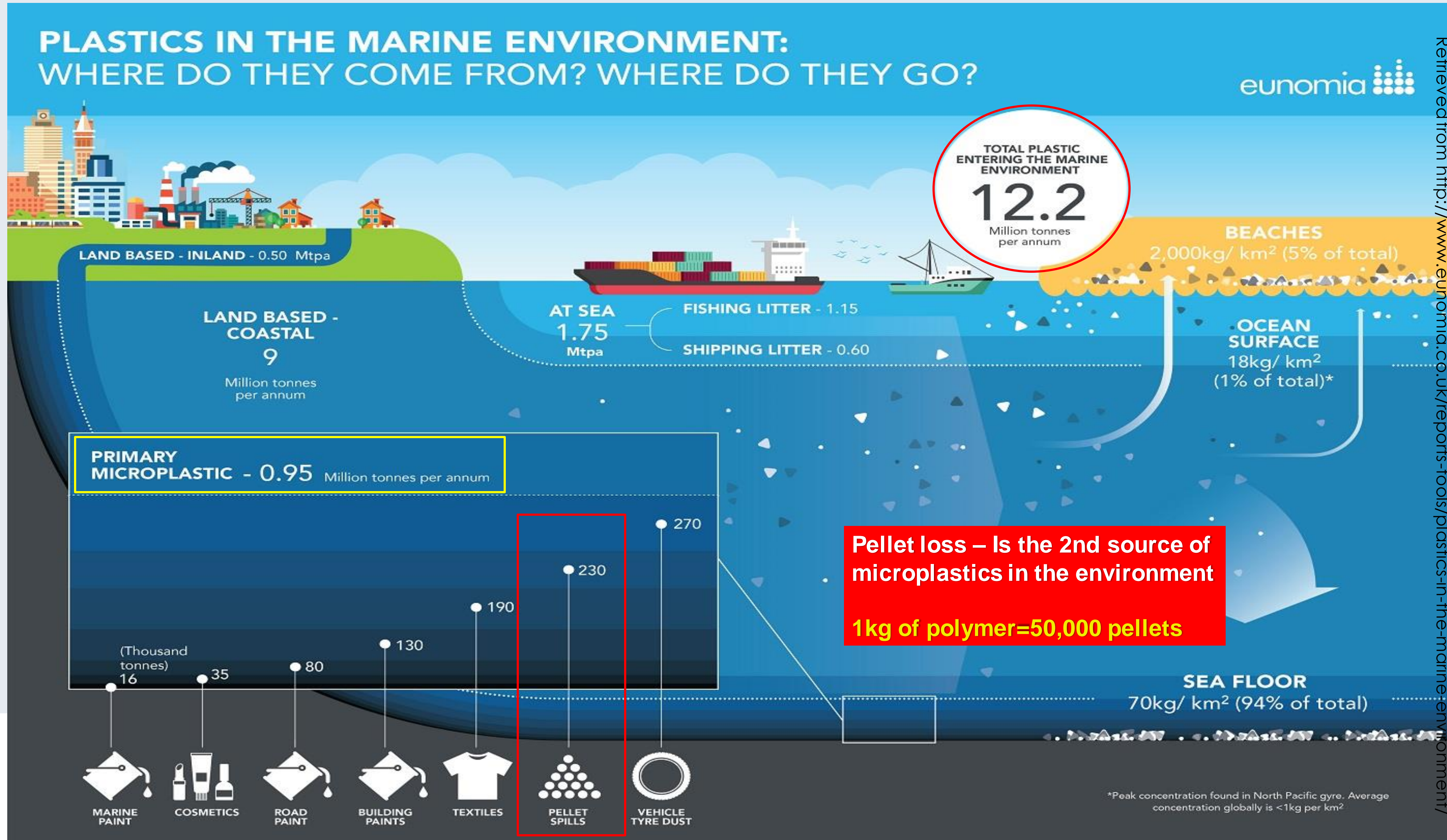


Plastics value-chain programme to achieve **zero pellet loss**

Plastics 2030
PlasticsEurope's Voluntary Commitment to increasing circularity and resource efficiency



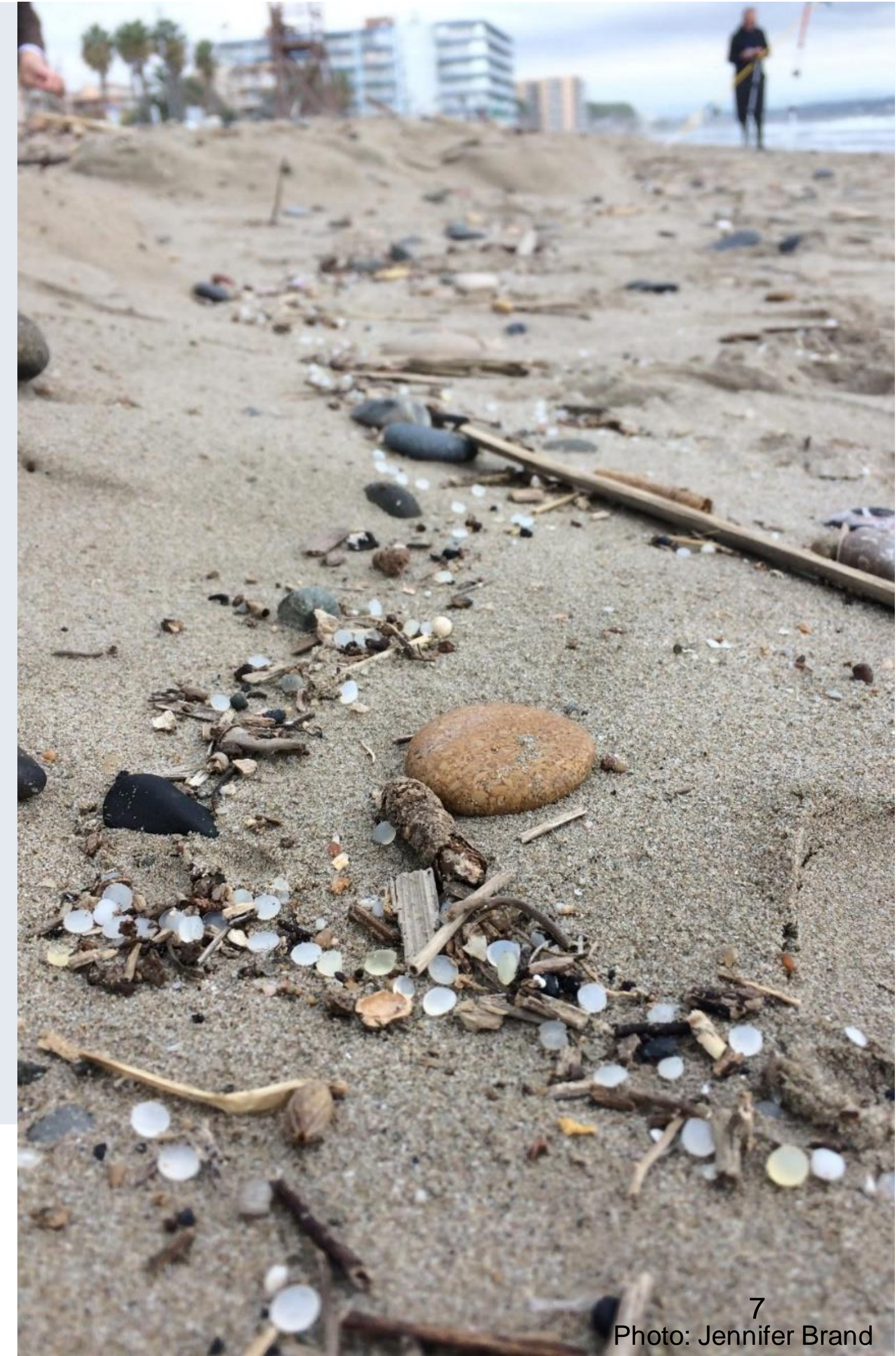
Spills of raw materials are sources of plastics in the environment



Raw materials:

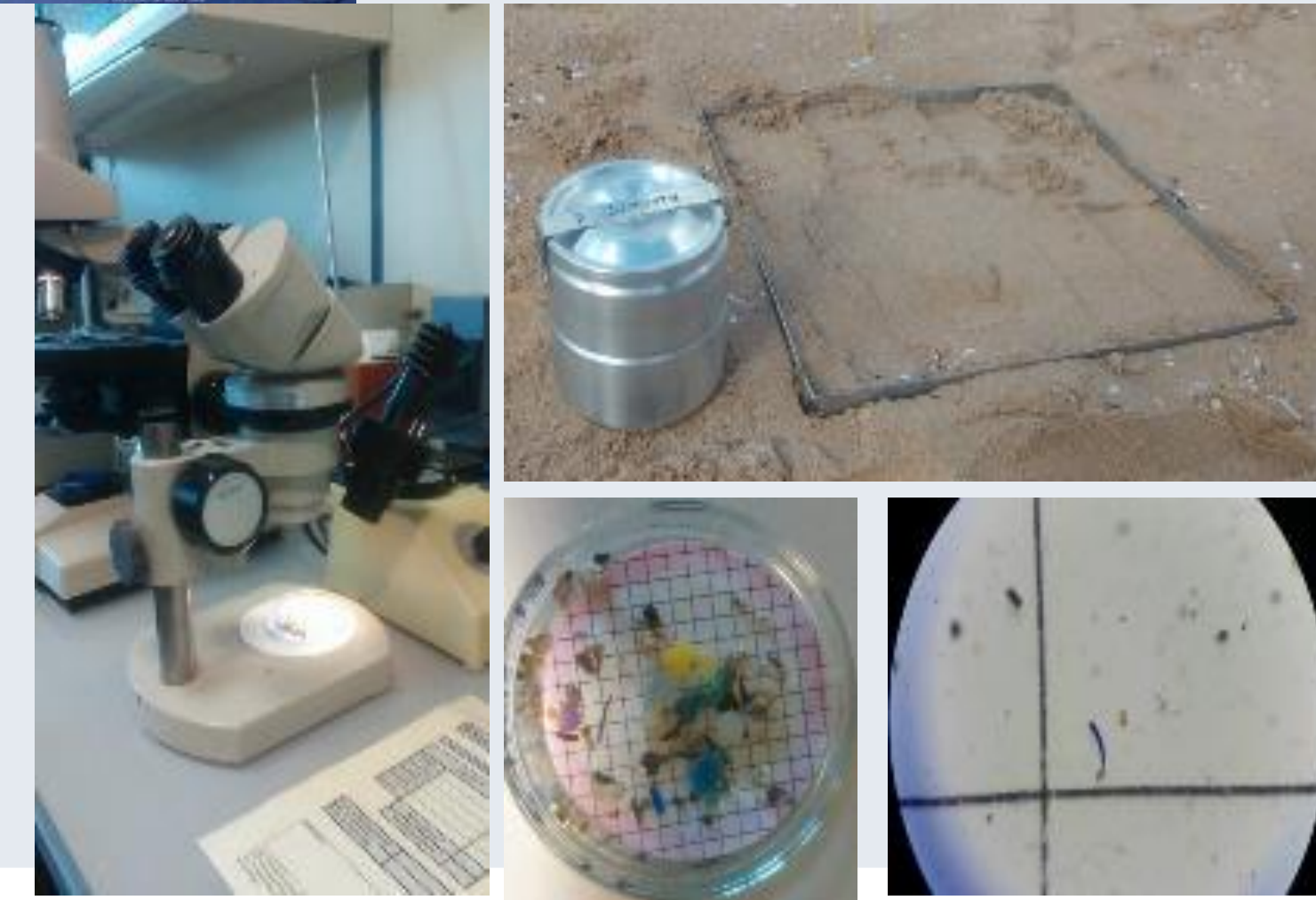
- Can be found in the environment around industrial areas but also in remote places transported by ocean currents
- Pollute terrestrial and marine environments
 - Do not biodegrade
 - Accumulate
- Can be ingested by animals causing suffocation and reduced feeding

Plastic pellets, flakes and powder belong to our plastic products. Not to the environment!



Microplastics (and pellets) reduction in the sea is a target for EU

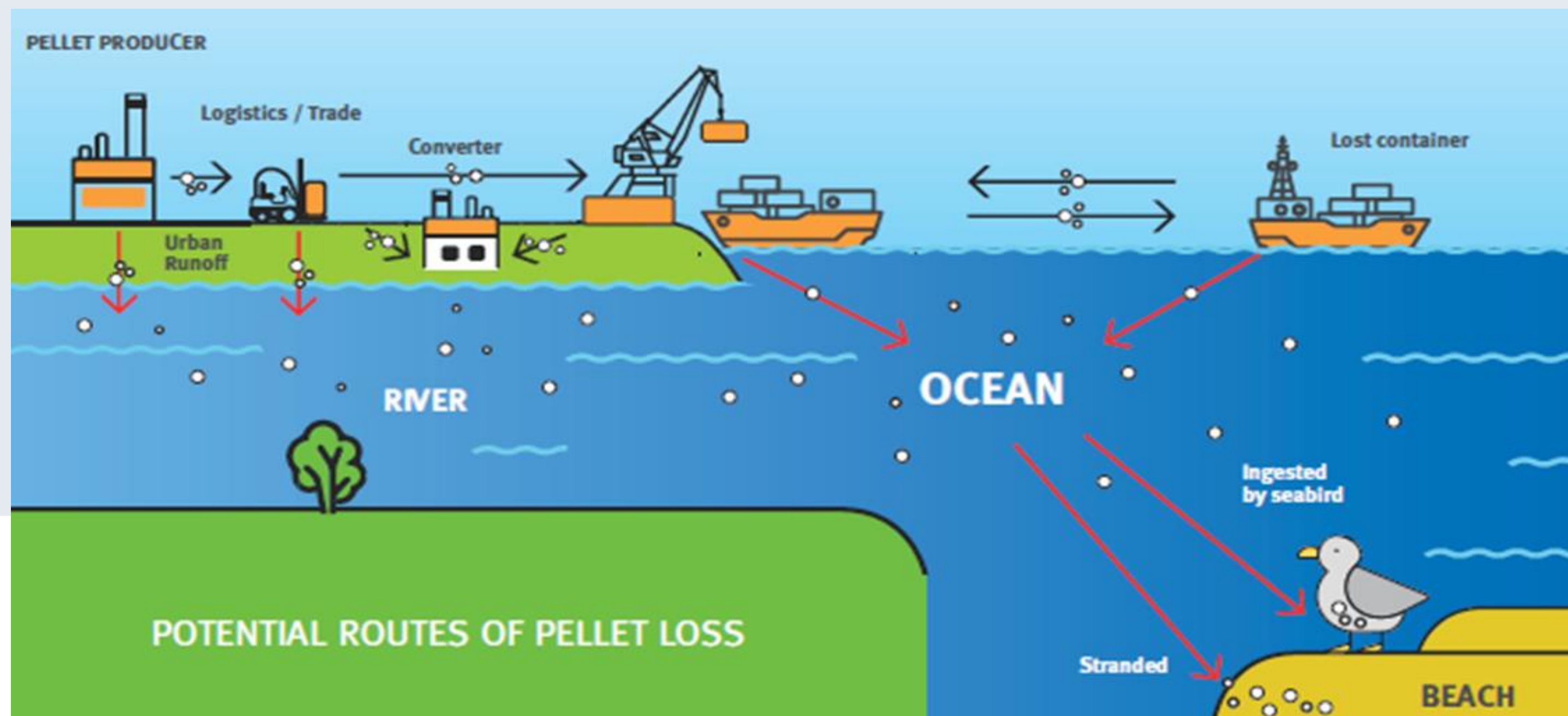
- Microplastics are considered as an indicator to measure the good state of the sea by the marine strategy framework directive
- EU member states have harmonized protocols for monitoring microplastics on beaches and coasts
- Portuguese Association of Marine Litter is also monitoring microplastics (and pellets)
- Spain authorities are monitoring too
- **ECHA has proposed to restrict microplastics and pellets**
- **OCS commitment and certification is our best chance to avoid restrictions**



How can pellet loss be avoided?

Only if the whole plastics value chain is involved!

- Polymer producers and converters, transporters and logistics operators – all have a role to play
- Implementing simple but efficient measures
- Raising awareness and involving people
- That is, by implementing an appropriate tool such as the program OCS





- Operation Clean Sweep® (OCS):
- International voluntary programme to tackle plastic pellet, flake and powder loss
 - Originally developed in the USA in 1990 by Plastics Industry Association (PLASTICS)
 - In Europe – already implemented by more than 350 signatories along the entire plastics value chain

OCS European site: www.opcleansweep.eu

What is OCS?

- It is a program for the control of pellets developed in the United States by Plastics, the North American Plastics Association, 25 years ago.
- It is voluntary and free
- PlasticsEurope has the license to implement it in Europe. In Spain, we have a collaboration agreement with ANAIP since December 2016 to promote OCS.
- The signatories of OCS commit themselves to perform in their facilities, in a few words:
 - 1. An evaluation to detect the points of loss**
 - 2. A proposal for corrective measures and their implementation**
 - 3. A training program to raise awareness among employees**
 - 4. Integrate measures into the company's environmental management system**



Company Pledge to Prevent Resin Pellet, Flake and Powder Loss

Our company recognises the importance of preventing the loss of resin pellets into the environment and is committed to implementing the Operation Clean Sweep® programme. We will be an OCS Programme Partner, strive towards "Zero Pellet Loss" and make changes to:

- 1** Improve our worksite(s) set-up to prevent and address spills;
- 2** Create and publish internal procedures to achieve «zero pellet loss» goals;
- 3** Provide employee training and accountability for spill prevention, containment, clean-up and disposal;
- 4** Audit our performance regularly;
- 5** Comply with all applicable local and national regulations governing pellet containment;
- 6** Encourage our partners (contractors, transporters, etc.) to pursue the same objectives.

Manual

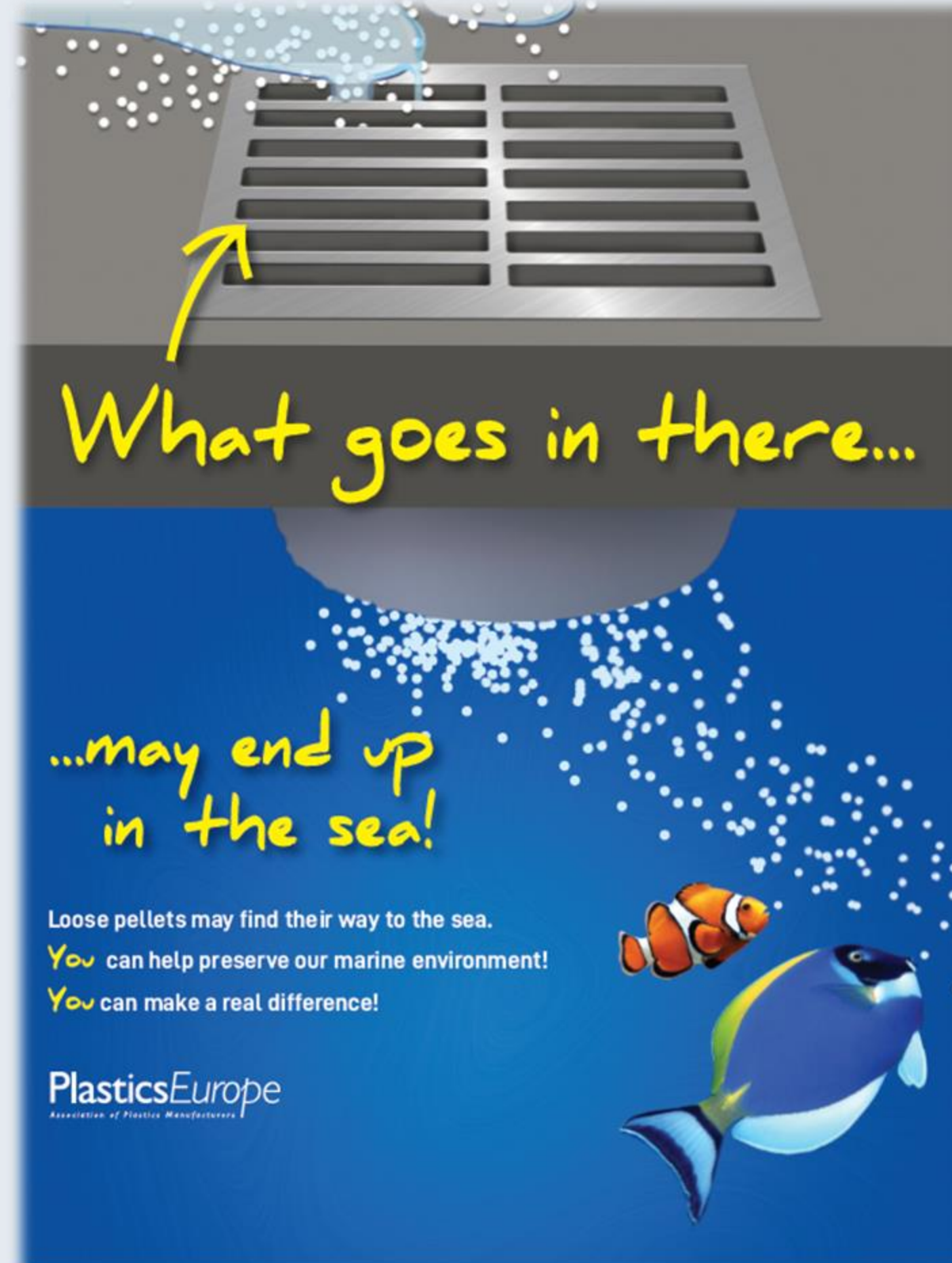
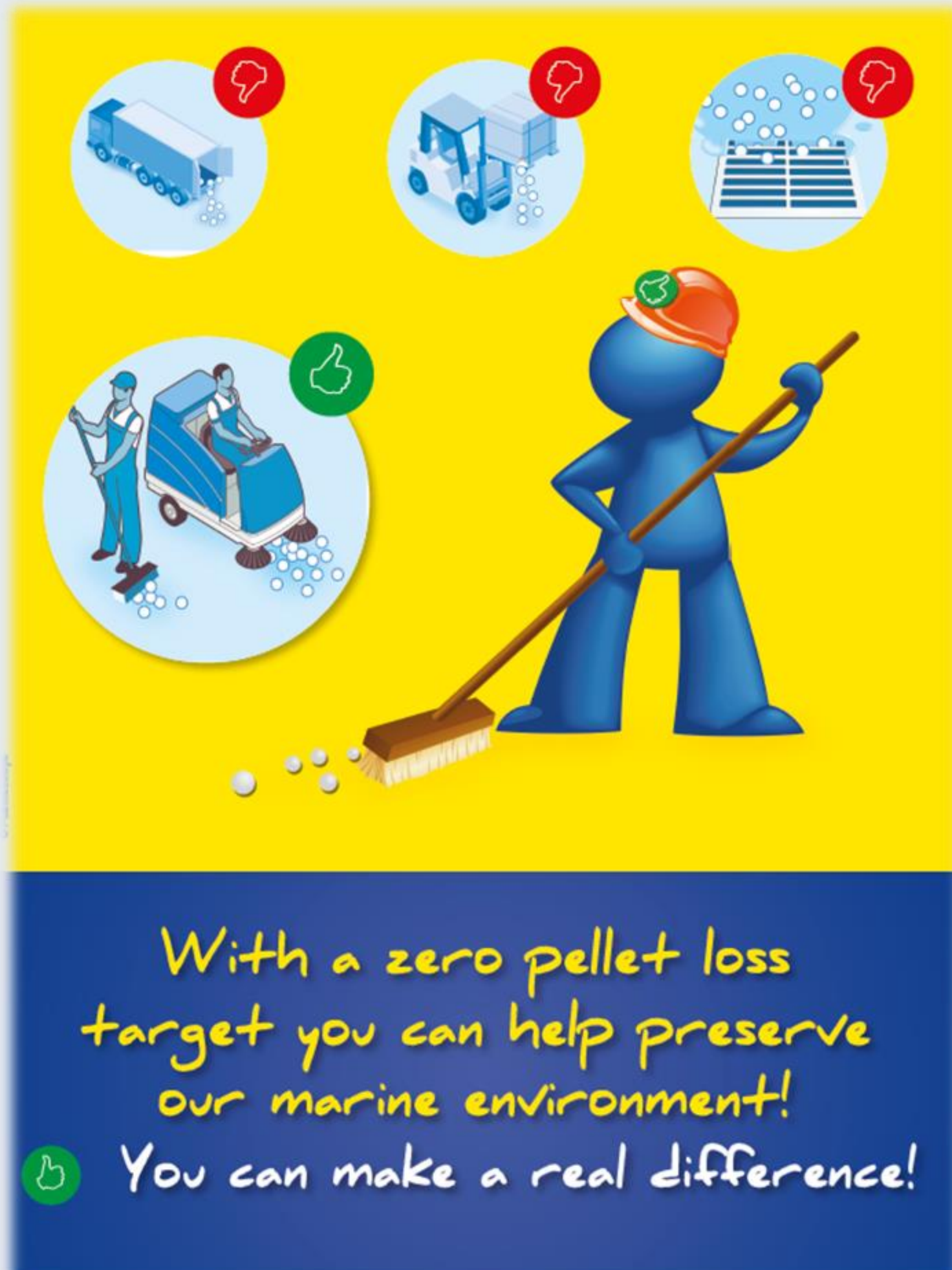


Leaflet

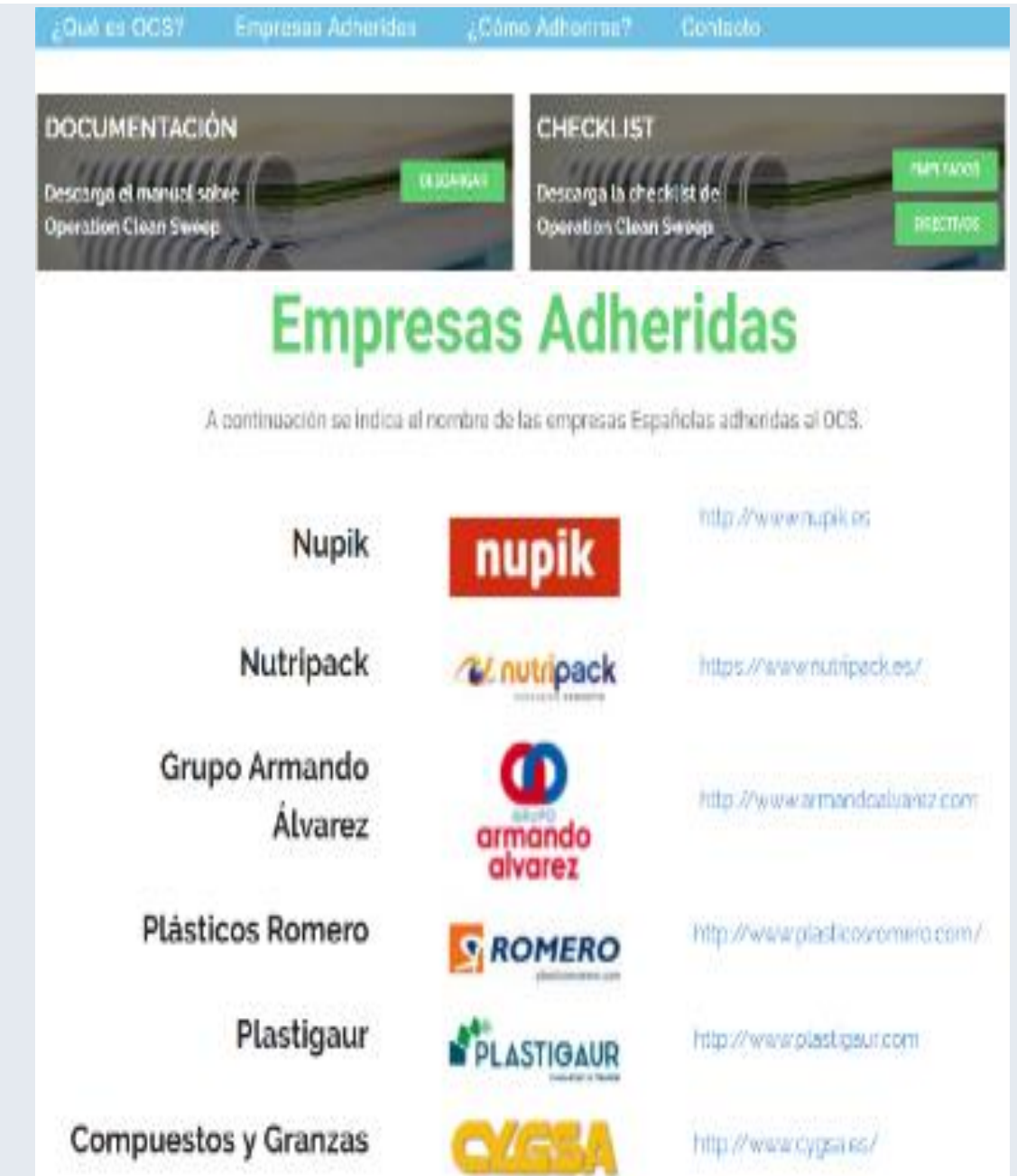


Check-Lists





- Increase visibility of OCS in Spain
- Maintain an updated list of signatories in ANAIP and PlasticsEurope's websites
- Request support from the Administration
- New OCS certification ANAIP-AENOR. 1st Certificate given to CONTENUR (Spanish converter)



Producers

Basf
 Covestro
 Dow Chemical
 Elix Polymers
 Ercros
 Ineos
 Inovyn
 LyondellBasell
 Radici
 Ravago
 Repsol
 Sabic
 Cires (Shin-Etsu)
 Total
 Ube
 Versalis

Converters

Nupik
 Nutripack
 Grupo Armando Álvarez
 Plásticos Romero
 Plastigaur
 Compuestos y Granzas
 Contenur
 EDV Packaging
 Grupo Poliex
 ABN Pipe Systems
 Storopack
 Saoplast
 Pentaplast (Portugal)
 AIMPLAS
 Klöckner Pentaplast

Klöckner Pentaplast (Pravia)
 HT Masterbatch
 Gestora Catalana de Residuos
 RPC Superfos
 Plasbel Plásticos
 Sphere Group Spain
 Knauf Miret SLU
 Faerch Plast
 GRC Group
 KLC Technical Plastics
 Poliex Group
 Promens Packaging
 Scanlux Packaging

Ports

Puerto de Tarragona

Logistic

Bertschi
 Europea de Contenedores S.A.
 Global Spedition SLU
 Katoen Natie
 SMR Logística
 Transportes Martínez Marcos S.L.
 Transportes Sanmartí
 Transportes Franpama S.L.
 3 Lavaderos de Cisternas
 Chemiplast S.L.
 CSLv del Sureste S.L.
 Cistercostas S.L.
 Lavado y Engrase Madrid
 Medpack Ibérica S.L.U.
 Samarlen S.L.U.
 Schmidt Ibérica
 SLI Carlet S.L.
 Transtello S.L.
 Toba Lavaderos S.L.U.
 Teifer

The way forward to promote OCS implementation in Portugal

1. APIP to become a licensee of the OCS (agreement with US Plastics)
2. Cooperation agreement APIP-PlasticsEurope on OCS
 - Promote implementation of OCS within the plastics value chain in Portugal
 - Develop an action plan for the implementation of OCS
 - Organize a meeting with relevant Portuguese authorities



- Marine litter is a global problem and needs global and local solutions
- The presence of microplastics in the environment is a problem that must be faced by all the actors involved.
- All parts of the plastics value chain are key when it comes to avoiding pellet losses and must demonstrate that they are committed.
- PlasticsEurope is strongly committed to the implementation of OCS with the objective that no pellets reach the environment.
- National administrations are following the situation of the beaches and European authorities (e.g. OSPAR) are following the progress in the implementation of OCS, recognizing the efforts of the industry to avoid the loss of pellets.

THANK YOU!!



*Leave nothing
but footprints!*