

Plastics & Circular Economy

Juan Ruiz 3rd Environment Journalists meeting, Barcelona November 14th, 2018



Who we are?









Objectives



Promote the use of life-cycle thinking



Support an innovation friendly environment



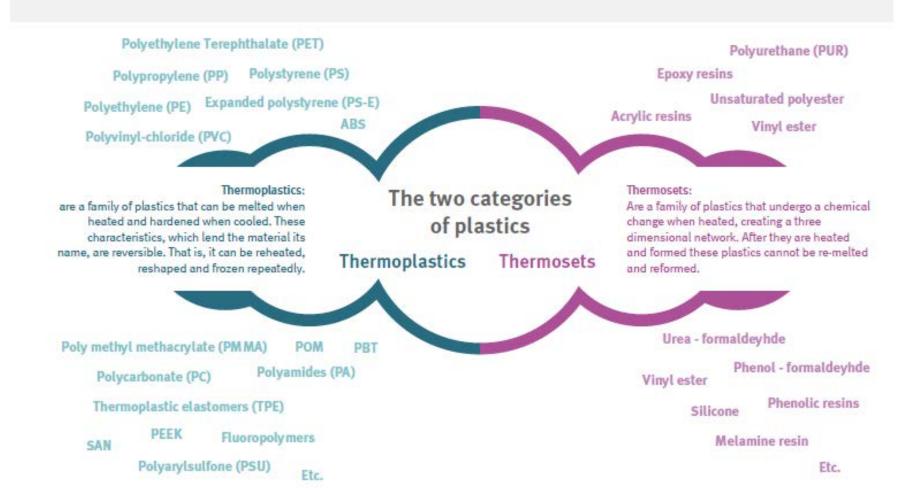
Demonstrate how plastics contribute to improving the quality of life of Society

Plastics: not just one material



Discovering the wide family of plastics

The plastics' family is composed of a great variety of materials designed to meet the very different needs of thousands of end products.



Key Figures of the European plastics industry



The European plastics industry includes plastic raw materials producers, plastic converters, plastic recyclers and plastic machinery manufacturers in the EU28 Member States.



Data: 2017. Sources: PlasticsEurope, Eurostat, PlasticsEurope Market Research Group (PEMRG).

World production of plastics and geographical distribution



- Plastics World production 335 million tons in 2016
- Plastics European production 60 million tons in 2016
- China is the largest single producer and Asia = 50% of global production



European Plastic Converter demand in 2016 Plastics Europe



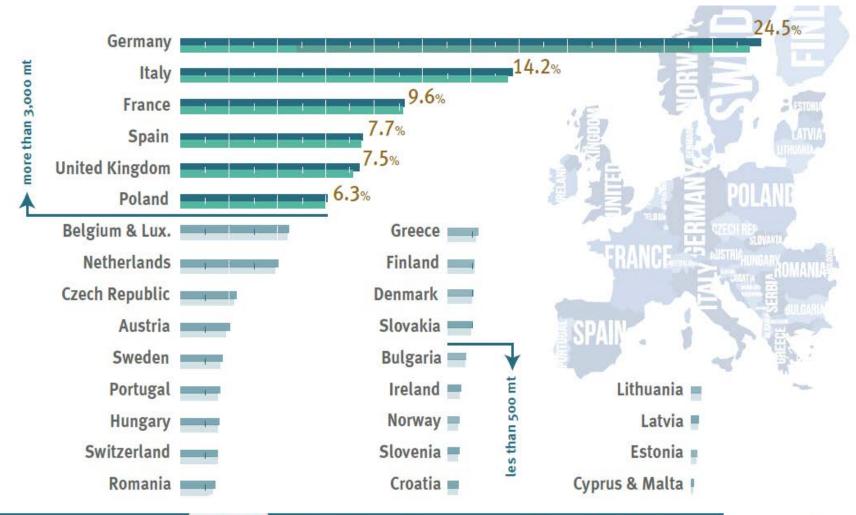
49.9 million tons



Source: PlasticsEurope Market Research Group (PEMRG) / Conversio Market & Strategy GmbH

Plastics EU converter demand by country





49.9 mt

The six larger European countries and the Benelux cover almost 80% of the European demand in 2016

What do we mean by plastics?



Different plastics for different products:





The use phase – the biggest savings





Plastic insulation materials end up saving **250** times more energy than what is used to produce them.





Overall environmental impact of using plastics is four times lower than if plastics were not used

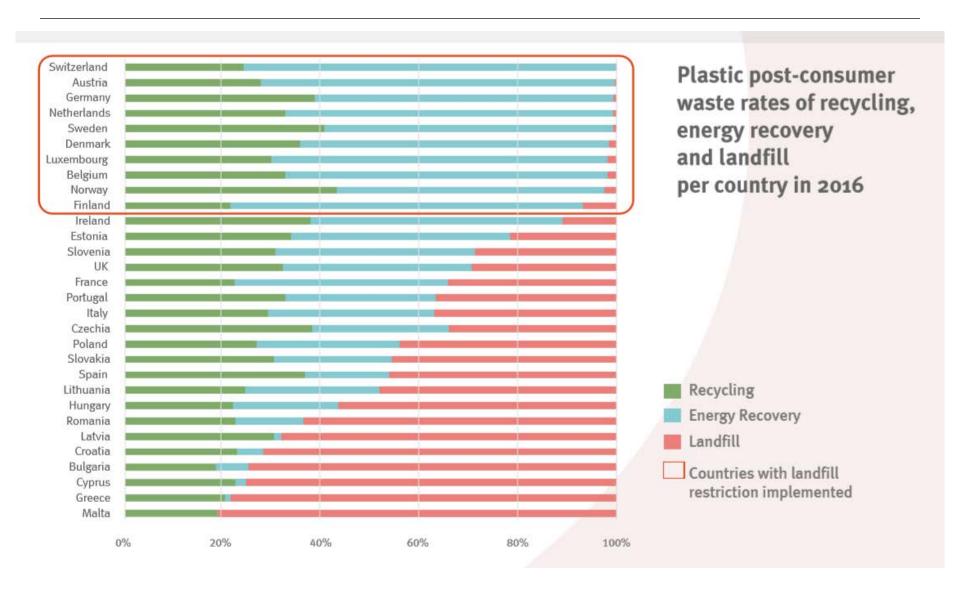




Innovative multi-layered food packaging can extend shelf life significantly while reducing spoilage and waste

Plastics Waste Management in Europe

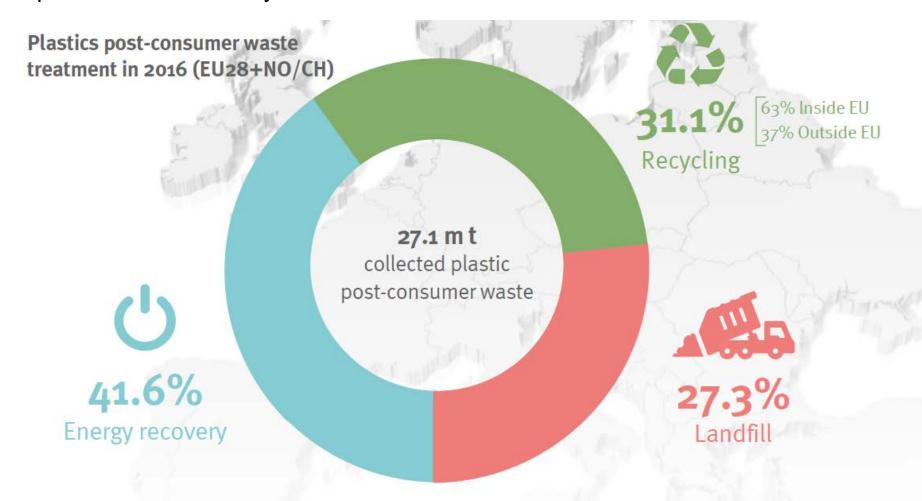




In 2016, for the first time, recycling overcame landfill



 In 2016, 27.1 million tones of plastic waste were collected through official schemes in the EU28+NO/CH in order to be treated. And for the first time, more plastic waste was recycled than landfilled.



The Challenge: prevent plastics leakage into the environment



Plastics are too Valuable to be wasted! They are a Valuable Resource



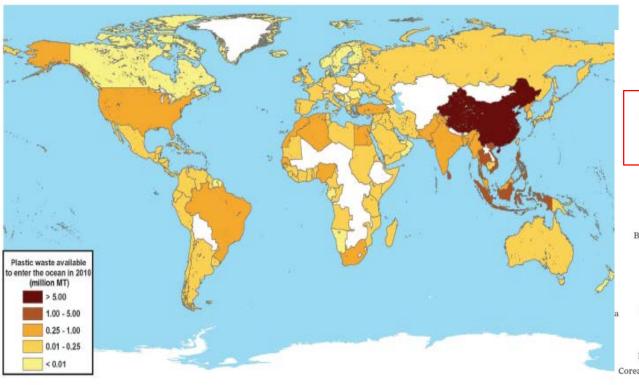
Marine Litter is a global problem



Solutions

- 80% of marine litter comes from land
- +50% coming from 5 Asian countries*

- > Close the tap on land
- > Global cooperation

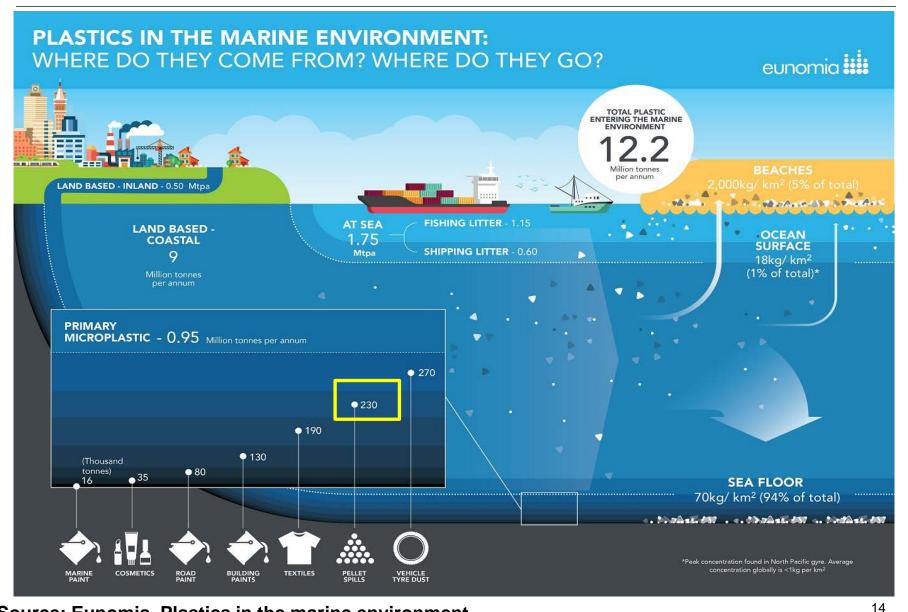


	Población costera Millones de habitantes		Residuos plásticos mal gestionados		Residuos plásticos en el mar
			Toneladas métricas por año	% del total	Toneladas métricas por año
China	1	262,9	8.820.000	27,7	1.320.000 - 3.530.000
Indonesia	2	187,2	3.220.000	10,1	480.000 - 1.290.000
Filipinas	3	83,4	1.880.000	5,9	280.000 - 750.000
Vietnam	4	55,9	1.830.000	5,8	280.000 - 730.000
Sri Lanka	5	14,6	1.590.000	5,0	240.000 - 640.000
Tailandia	6	26,0	1.030.000	3,2	150.000 - 410.000
Egipto	7	21,8	970.000	3,0	150.000 - 390.000
Malasia	8	22,9	910.000	2,9	140.000 - 370.000
Nigeria	9	27,5	850.000	2,7	130.000 - 340.000
Bangladesh	10	70,9	790.000	2,5	120.000 - 310.000
Sudáfrica	11	12,9	630.000	2,0	90.000 - 250.000
India	12	187,5	600.000	1,9	90.000 - 240.000
Argelia	13	16,6	520.000	1,6	80.000 - 210.000
Turquía	14	34,0	490.000	1,5	70.000 - 190.000
Paquistán	15	14,6	480.000	1,5	70.000 - 190.000
Brasil	16	74,7	470.000	1,5	70.000 - 190.000
Myanmar	17	19,0	460.000	1,4	70.000 - 180.000
Marruecos	18	17,3	310.000	1,0	50.000 - 120.000
orea del Norte	19	17,3	300.000	1,0	50.000 - 120.000
EE.UU.	20	112,9	280.000	0,9	40.000 - 110.000

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

Microplastics in the marine environment worldwide





How do we fight against marine litter?





Harnessing global action





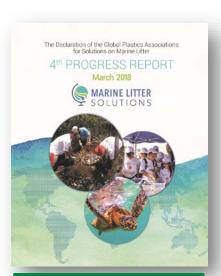
Global Plastics Alliance





Create open dialogue forums

- The Global forum for Plastics Producers industry. Engaging in finding solutions to Marine Litter and improving waste
- Global Plastics Industry engagement for Solutions on Marine Litter
- Plastics value-chain programme to achieve zero pellet loss
- i.e. PolyTalk conferences with key stakeholders: policy makers, NGOs, consumer organisations and industry



74 Signatories40 Countries355 Projects





IdentiPlast 2019





14th International Conference on the Recycling and Recovery of Plastics





Conscious design through the full life cycle





Full Life Cycle Thinking: key to foster resource efficient ecodesign and innovation



Raising awareness is key



Environmental program for youngsters: 15.000 children/year

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Citizen's decalogue against marine litter: 94 entities under the umbrella of the MoEnv.

Foster efficient waste management practices



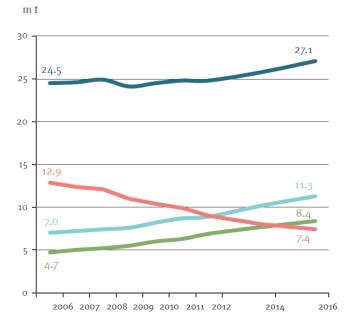


Zero plastics to landfill: a key objective to achieve the recovery of all plastic waste.

In ten years, plastic waste recycling has increased by almost 80%

From 2006 to 2016 the volumes of plastic waste collected for recycling increased by 79%, energy recovery increased by 61% and landfill decreased by 43%.

Landfills, do not allow the most efficient use of plastics and are a source of littering.



2006-2016 evolution of plastics waste treatment (EU28+NO/CH)









Specific industry action to prevent pellet losses





Operation Clean Sweep®: program of the plastics value chain to achieve Zero pellet lost





PlasticsEurope's target is to have 100% of its member companies producing pellets sign the OCS pledge by the end of 2018.

PlasticsEurope Voluntary Commitment to increase circularity of plastics



PlasticsEurope welcomes EC's Plastics
Strategy and its vision for a circular &
resource efficient Europe

PlasticsEurope's contribution to the joint vision of the Strategy

The ambitious strategy provides the industry with a challenging opportunity that should be well-used

Shared objectives with the EC:

- 1. Preventing plastic leakage into the environment
- 2. Increase of recycling and re-use
- 3. Innovation and investments
- 4. Drive global action





Voluntary Commitment Plastics 2030: ambitious targets





- Prevent the leakage of plastics into the environment:
 - New research on most found plastic items into the environment
 - Operation Clean Sweep® signed by 100% of our members by
 2018 peration Clean Sweep®
- Reach in 2040: 100% reuse, recycling and/or recovery of all plastic packaging
 - In 2030: 60% reuse and recycling of all plastic packaging
- Accelerate innovation in the full life cycle of products
- Increase engagement inside and outside our industry

Conclusions



- Plastics are used in many different applications because of their versatility which helps to meet societal needs.
- ✓ They help to achieve energy savings and to reduce food waste, thus they contribute significantly to the reduction of CO₂ emissions.
- They must be correctly managed at the end of their service life.
- We are firmly committed to the principle that plastics do not belong in the world's oceans and should not be littered - plastics should be responsibly produced, used, reused, recycled and recovered.

ZERO PLASTICS TO THE OCEAN

Plastics are a precious resource that must be contained at all stages of its lifecycle



www.plasticseurope.org

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