



The Strategy For Plastic Waste Reduction Zero Plastic to Landfill – 100% Recovery

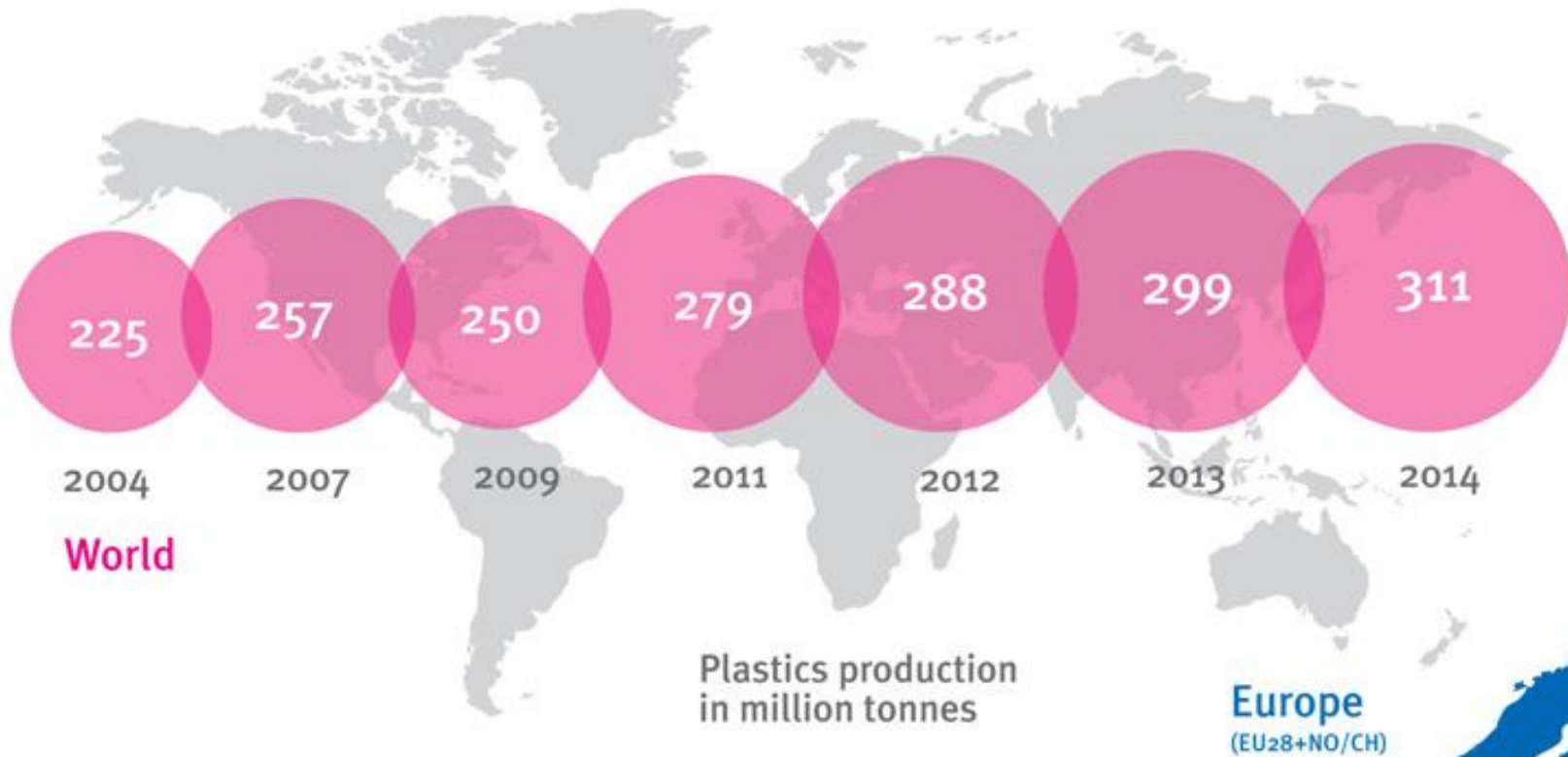
Giuseppe Riva, Regional Director, PlasticsEurope
UNEP MAP, Tirana
19th July 2016

PlasticsEurope
Association of Plastics Manufacturers

Plastics are part of daily live...



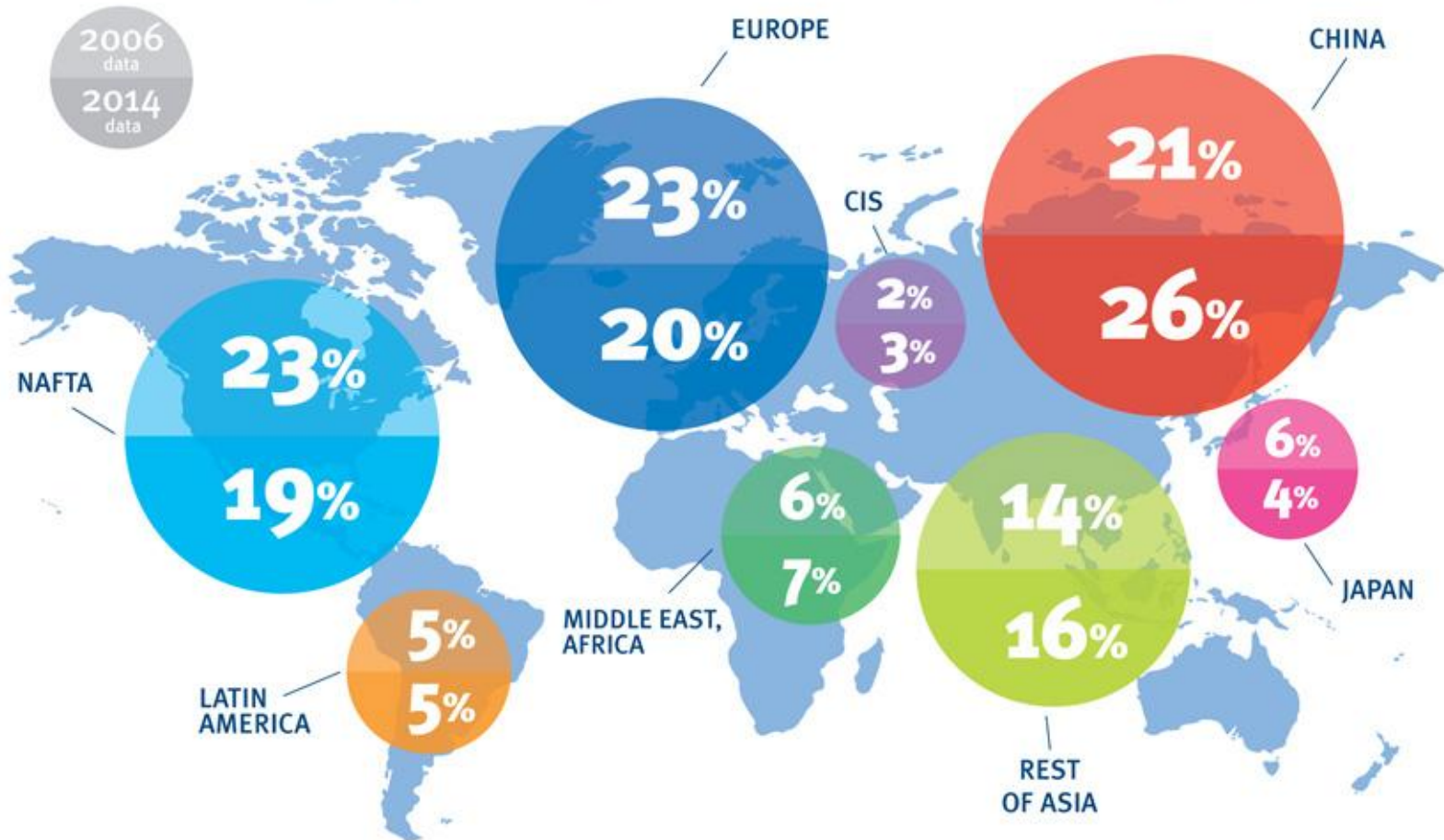
Plastics* production is stable in Europe and grows globally



*Includes plastics materials (thermoplastics and polyurethanes) and other plastics (thermosets, adhesives, coatings and sealants). Does not include the following fibers: PET-, PA-, PP- and polyacryl-fibers.

World Plastics Production by Area

China is the largest producer of plastics materials*, followed by Europe



Source: PlasticsEurope (PEMRG) / Consultic

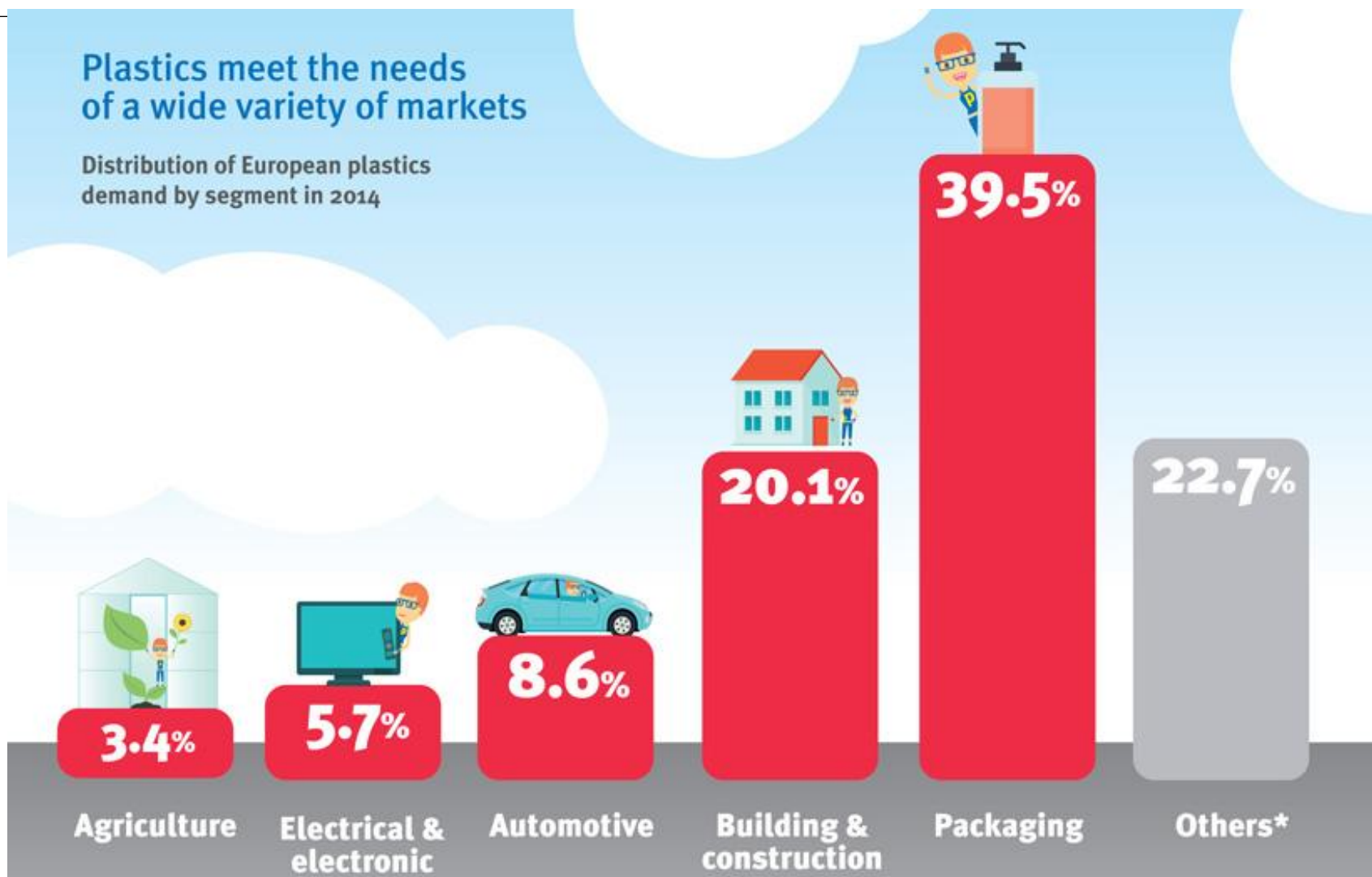
* Plastics materials: only thermoplastics and polyurethanes

2014 World production of plastics materials*: 260 m t

Packaging, Building & Construction and Automotive are the top 3 plastic markets

Plastics meet the needs
of a wide variety of markets

Distribution of European plastics
demand by segment in 2014



For products packaged in plastics, the packaging represents only 1 to 4% of the total weight:

- A plastic film of 2g packages 200g of cheese
- A plastic Bottle of 25g packages 1.5 liter of drinks



Without plastics, retailers' fleets would make **50% more journeys**

Packaging becomes lighter for same content

	Weight of packaging 20 years ago	Weight of packaging Today	Weight reduction	Weight of the Content
Yoghurt cup	5,8 g	4,8 g	-17 %	125 g
Bottled water	40 g	25 g	-38 %	1,5 kg
Water bottle cap	3,1 g	1,8 g	-42 %	1,5 kg
Vegetable bag	20 g	3,5 g	-82 %	5 kg
Frozen vegetable bag	12,7 g	7,5 g	-37,5 %	1 kg
PSE fish tray	100 g	87 g	-13 %	3 kg

Source: Elipso, the French association of flexible packaging

Leakage of plastics in the environment and its reasons

Behaviour



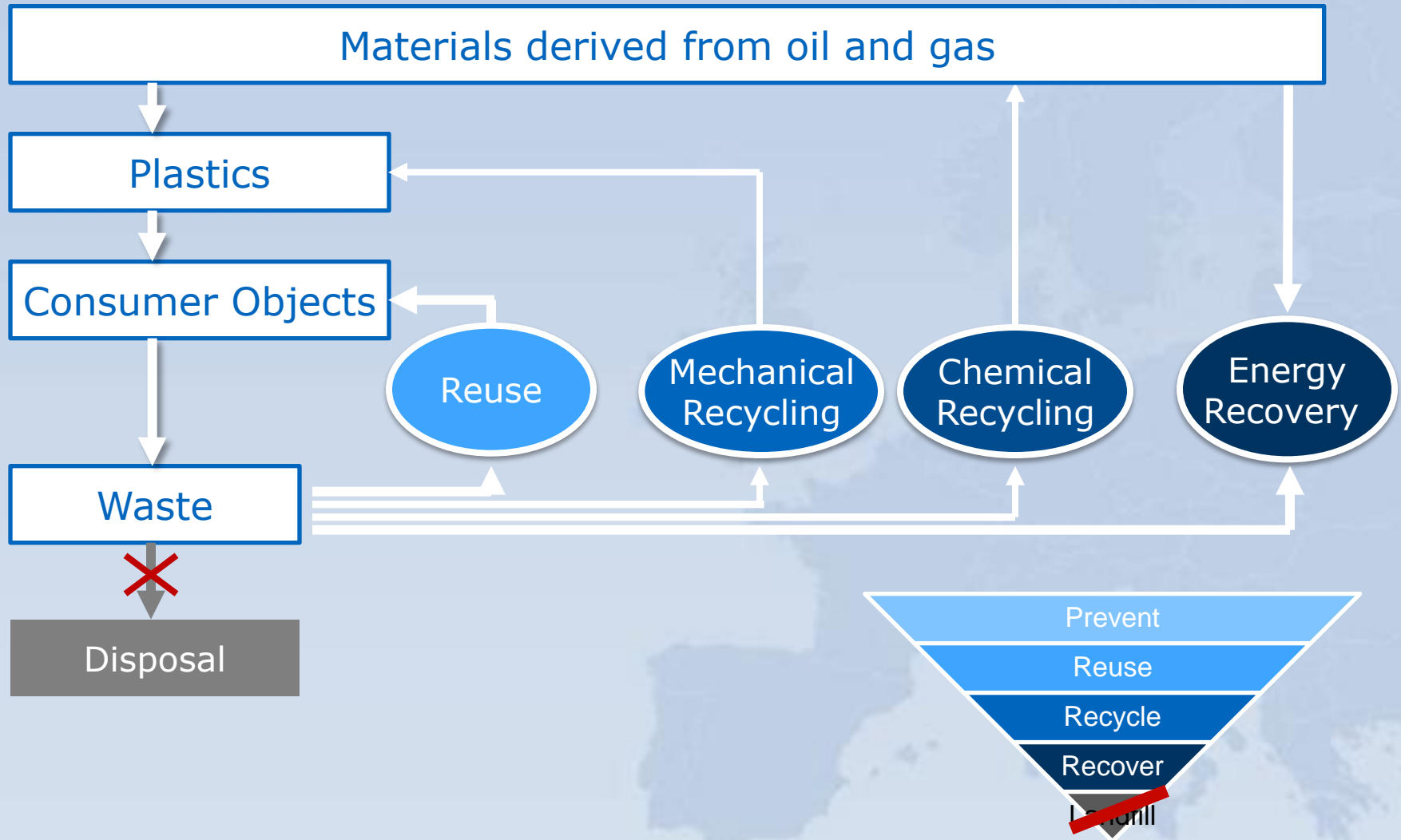
Waste collection
systems working
badly



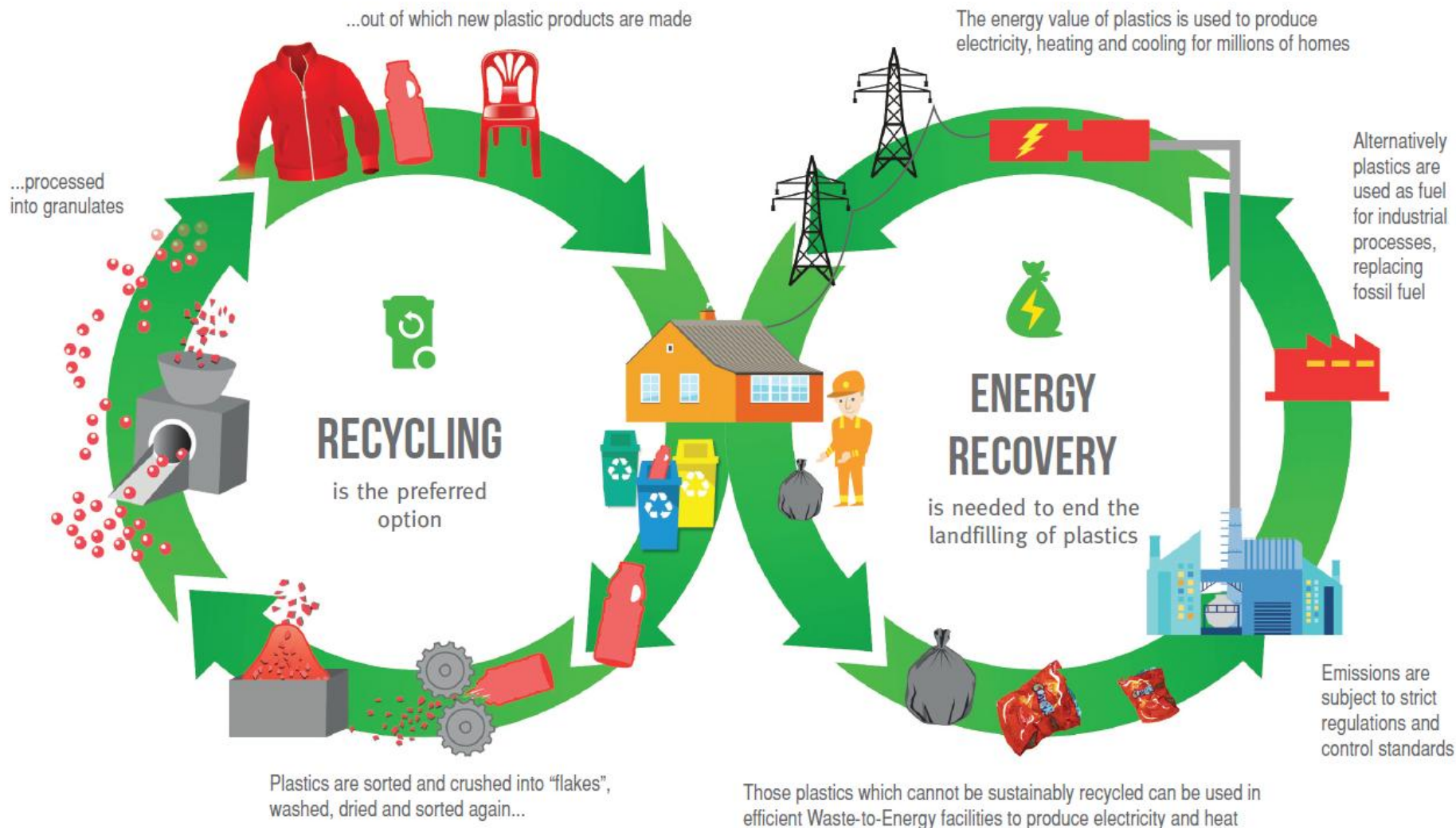
Use of landfilling



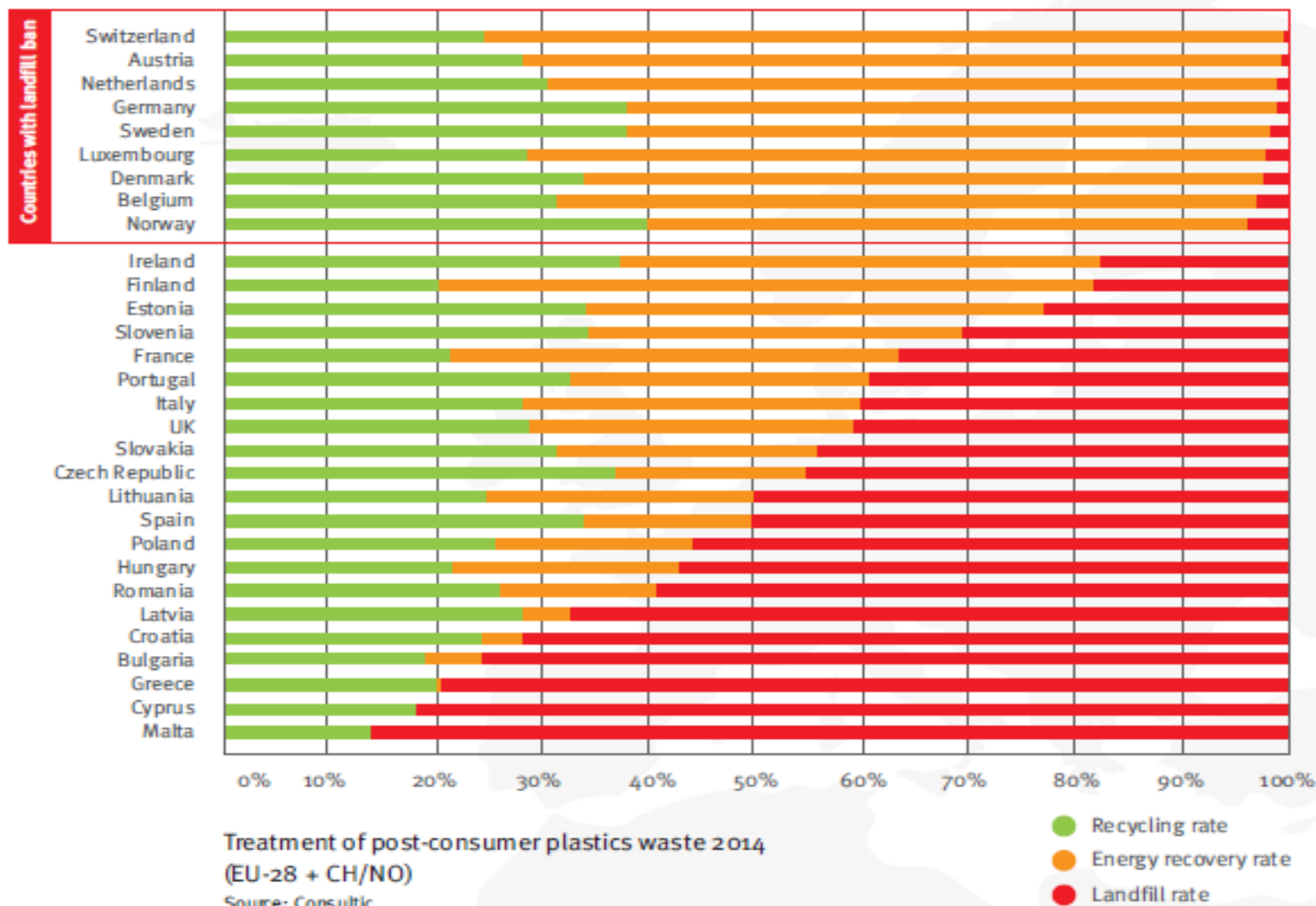
ALL recovery options apply for plastics



Plastics recycling is the preferred option...

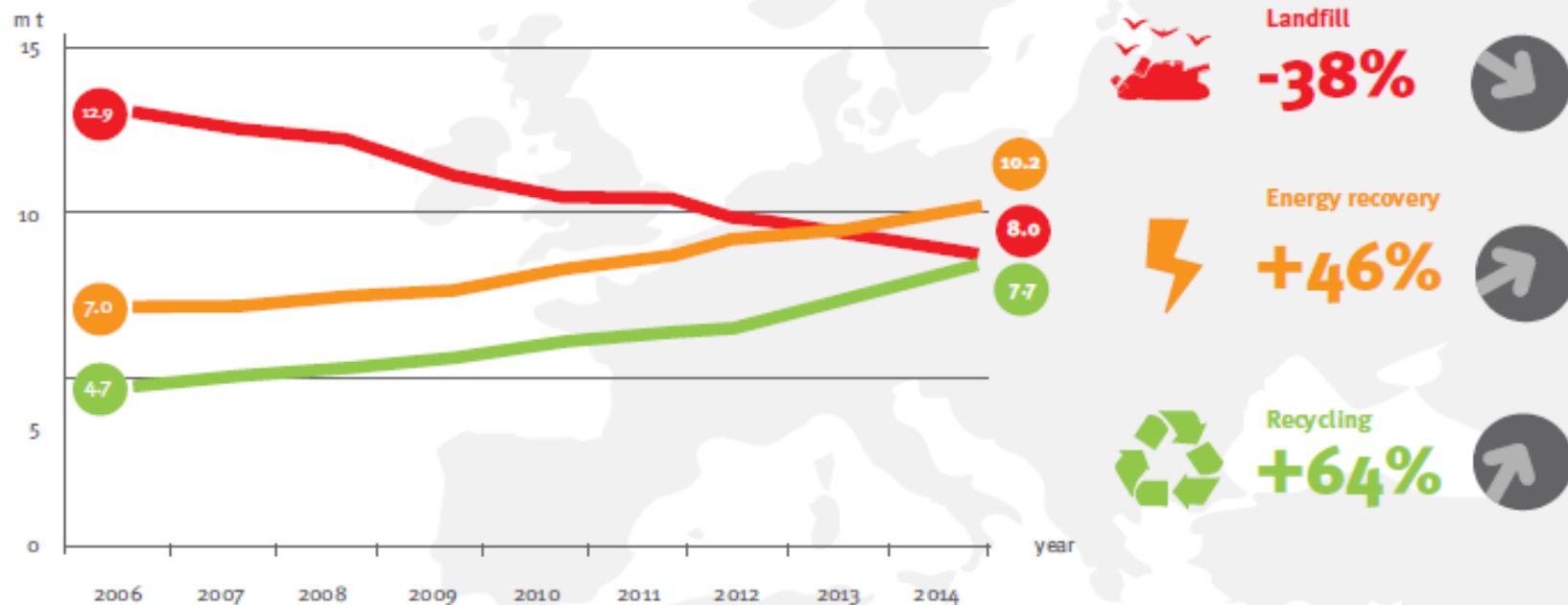


End of life of Plastics in Europe



Since 2006 landfill has decreased

The annual average of post-consumer plastics waste generation from 2006 to 2014 is 25 million tonnes

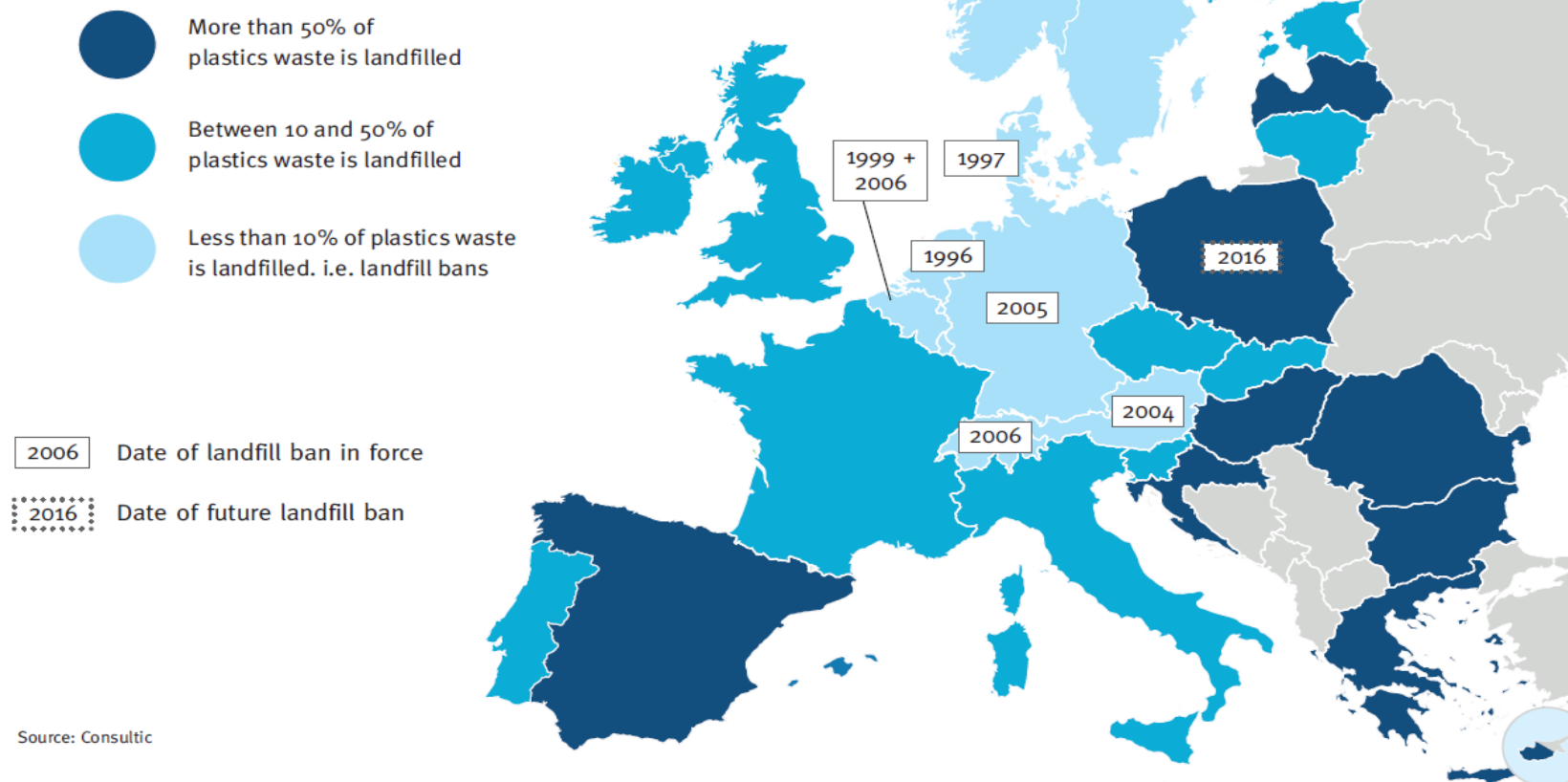


Total plastics waste recycling and energy recovery from 2006 to 2014

Source: Consultic

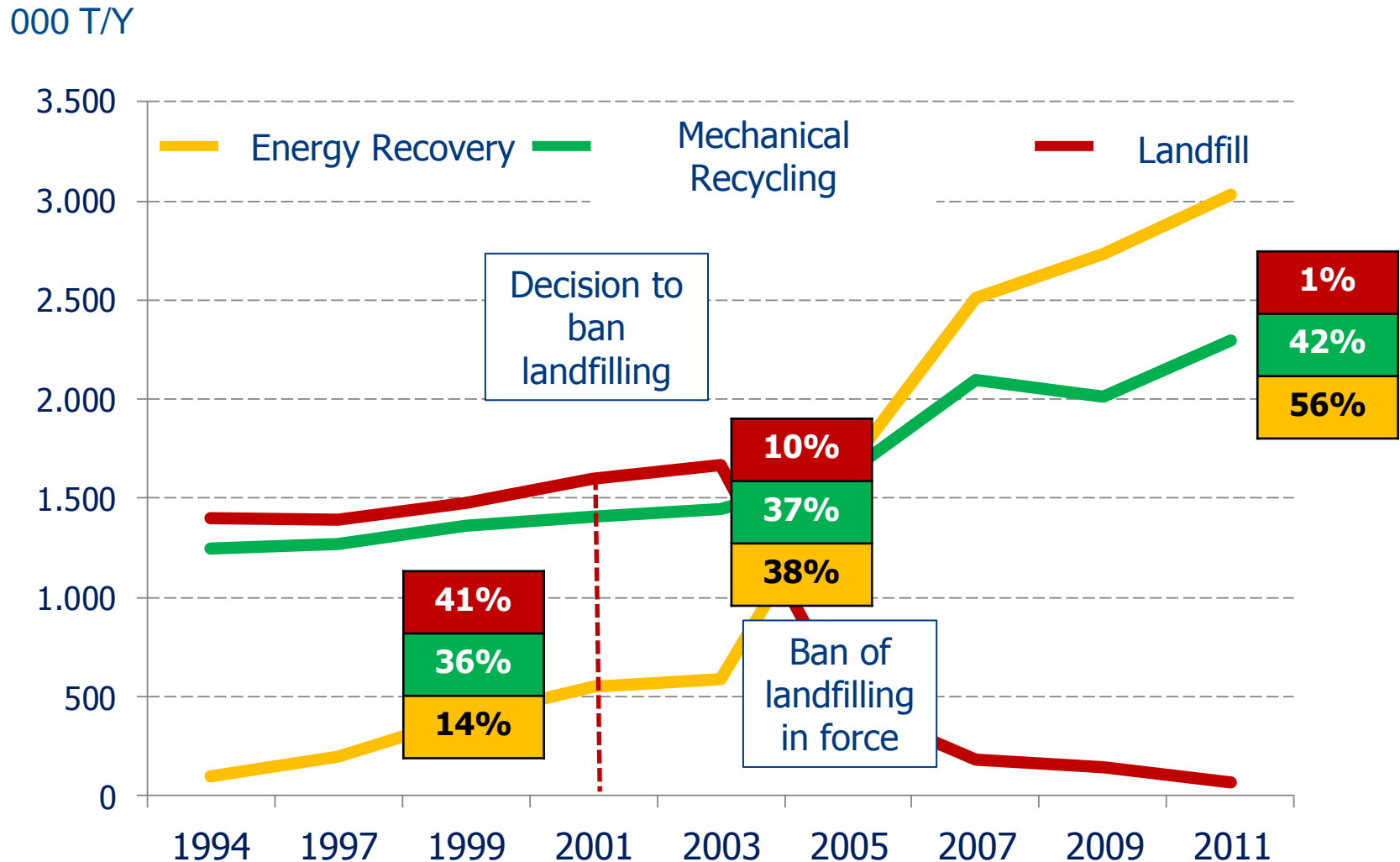
Landfilling is still the 1st option in many EU countries

Plastics waste going to landfill (2014)



Source: Consultic

Improvements in short time are possible: the case of Germany





Zero Plastics to Landfill in Italy

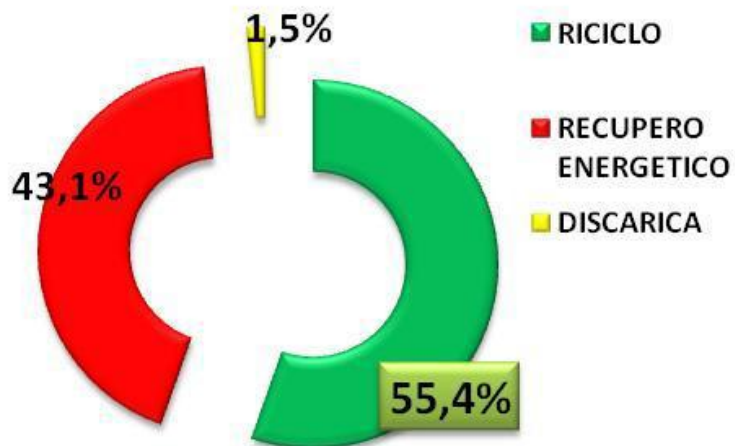
The implementation of the Strategy

Packaging Waste in Italy: key factor

The key factor to reach the objective of Zero Plastics to Landfill is the extension of Separated Collection to 100 % of Plastic Packaging Waste: in fact the percentage of packaging waste, coming from the separated collection, which eventually goes to landfill, is negligible (1,5% in 2013 and 0,8% in 2014).

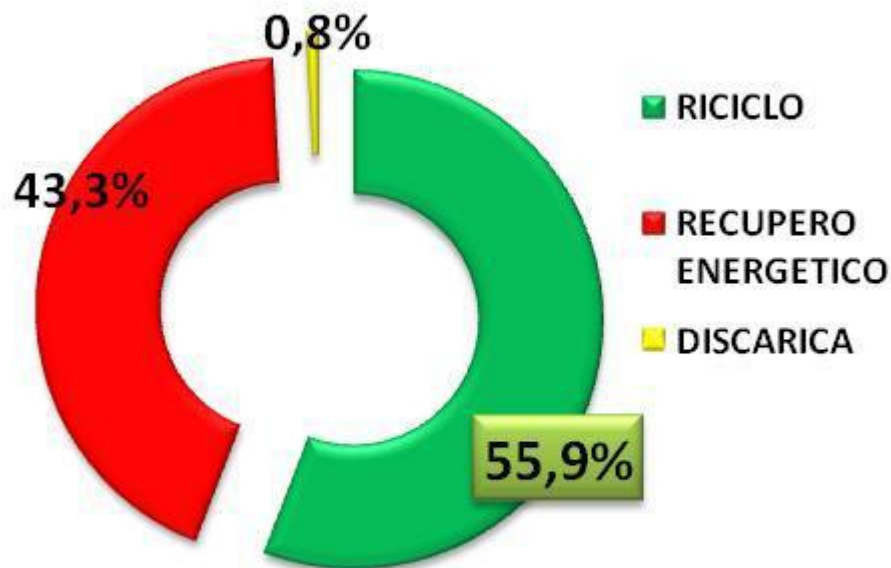
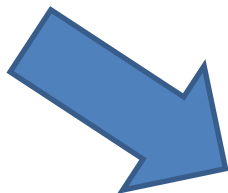
Packaging Waste in Italy:

Recycling, Energy Recovery and Landfill from separated collection



2013

Total Recovery = 1503 kt



2014

Total Recovery = 1716 kt

Plastic Packaging Waste in Italy 2015 – 2016 – 2017

		2014	2015	2016	2017	Diff % 2017/2014
Packaging Waste	kt	2082	2103	2124	2145	+3,0
Separate Collection	kt	1147	1217	1264	1312	+5,4
Recycling	kt	789	833	862	890	+14,4
Energy Recovery (1)	kt	349	372	390	409	+17,2
Energy Recovery (2)	kt	578	578	578	578	0,0
% Recycling		37,9	39,6	40,6	41,5	+3,6
% Energy Recovery		44,5	45,2	45,6	46,0	+1,5
Total Recovery	kt	1716	1783	1829	1877	+9,3
% Total Recovery		82,4	84,8	86,1	87,5	+5,1
% Landfilling		17,6	15,2	13,9	12,5	-5,1

Source COREPLA

Energy Recovery (1) = from separated collection

Energy Recovery (2) = from unseparated collection



Thank You !



Plastics

The Material for the 21st Century