



แนวคิดเกี่ยวกับเศรษฐกิจหมุนเวียน (Circular Economy) ของสหภาพยุโรป

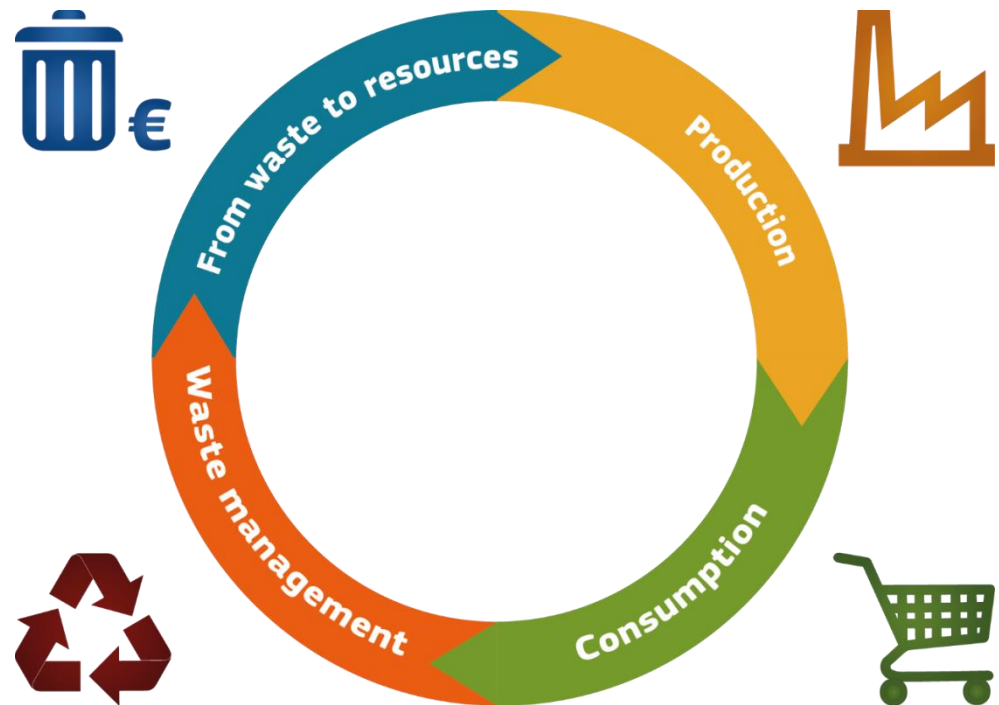
สุทธิตยา จันทวรารากร

Programme Officer, EU Delegation to Thailand

11 September 2018



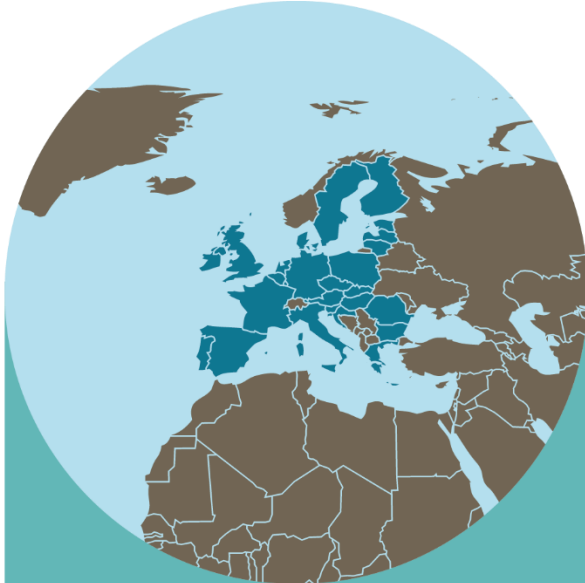
Circular Economy: a priority





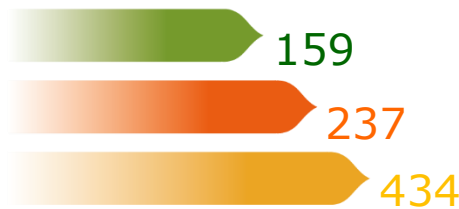
The EU is heavily dependent on imported raw materials

European Union (EU-28)

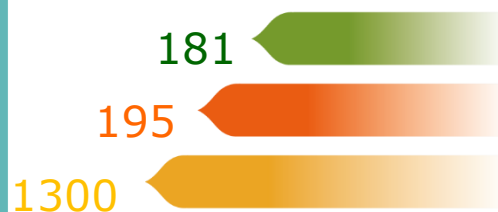


Total trade
EU-28 to ROW
In 2004: 455 million tonnes
In 2014: 640 million tonnes

EU-28 **exports** (2014)



EU-28 **imports** (2014)



- Biomass
- Manufactures (finished manufactured products)
- Fuels and mining products (fossil energy, metal ores and non-metallic minerals)

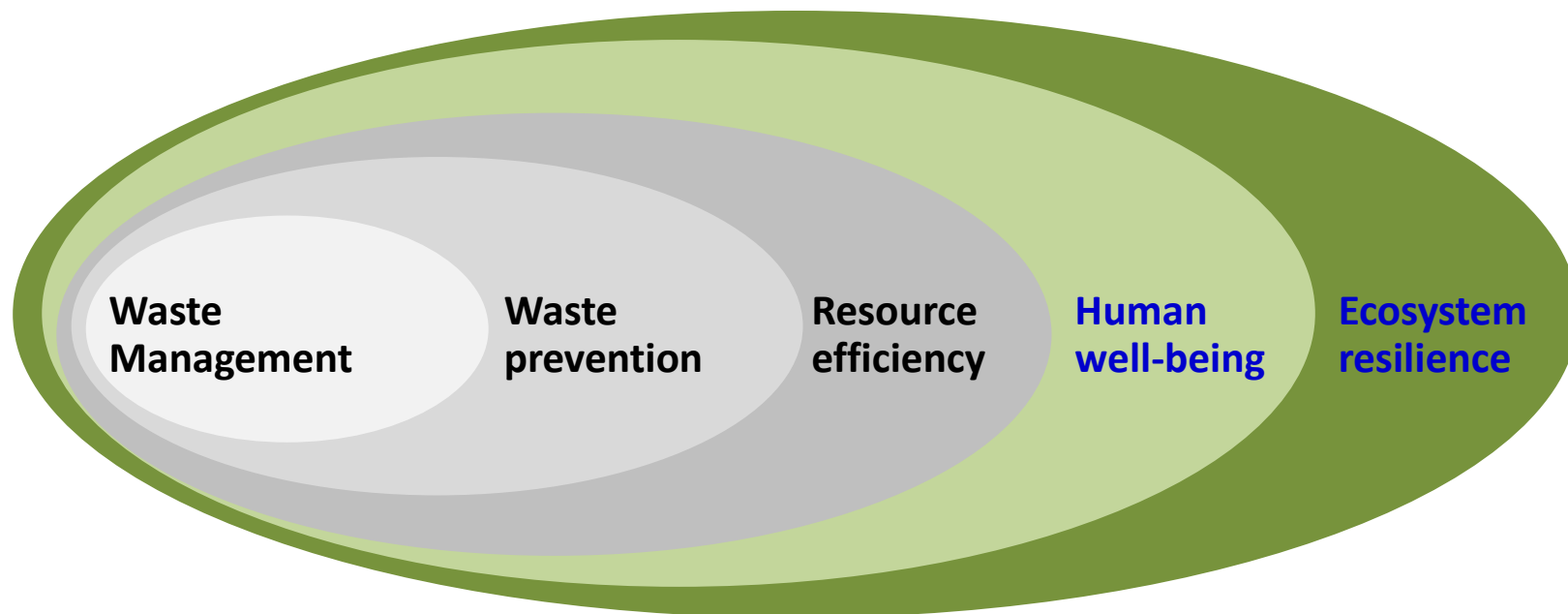
Rest of the world (ROW)



Total trade
ROW to EU-28
In 2004: 1664 million tonnes
In 2014: 1534 million tonnes

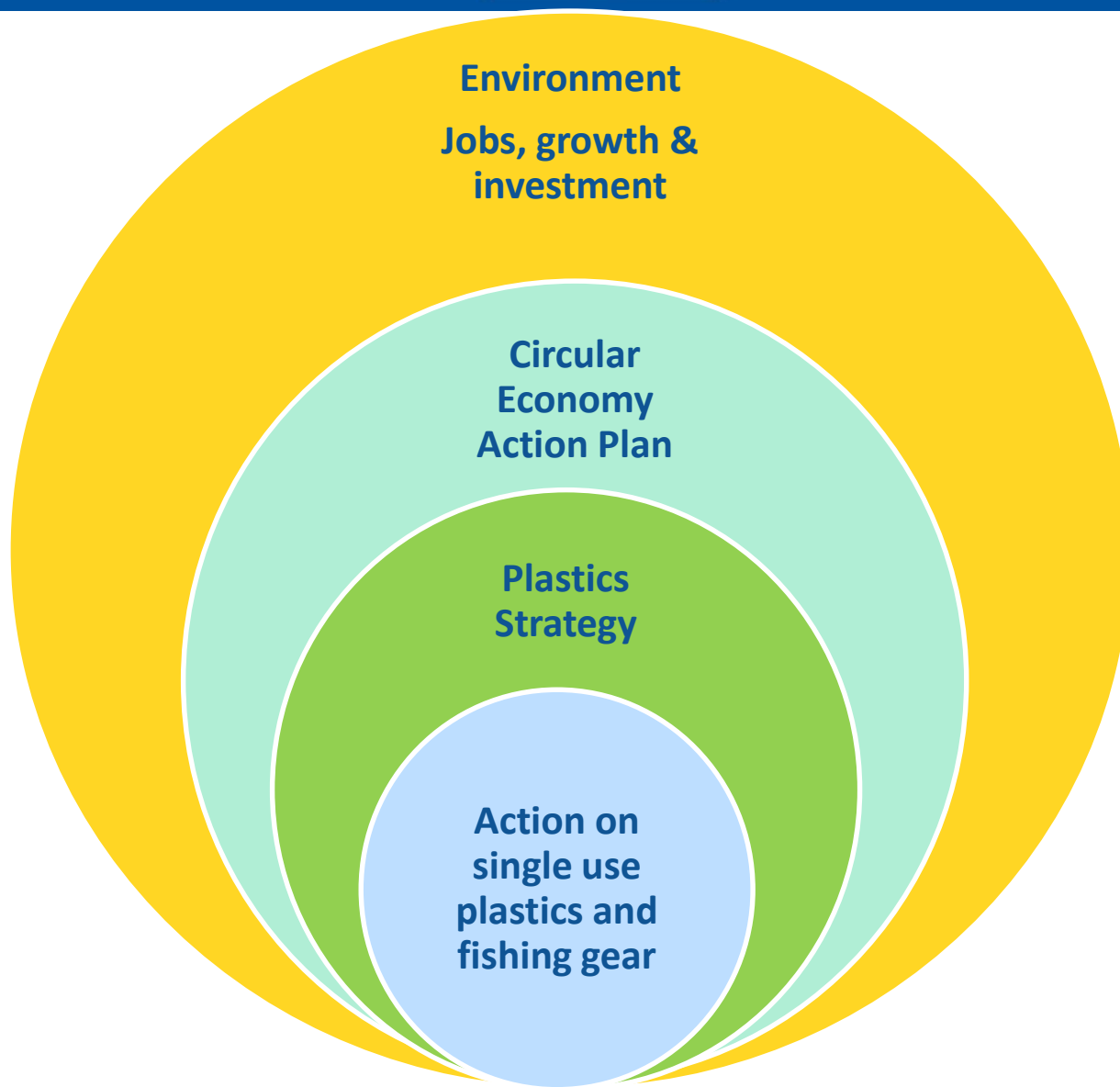


Circular Economy Focus **and** Green Economy Focus



Circular Economy Focus

Green Economy Focus



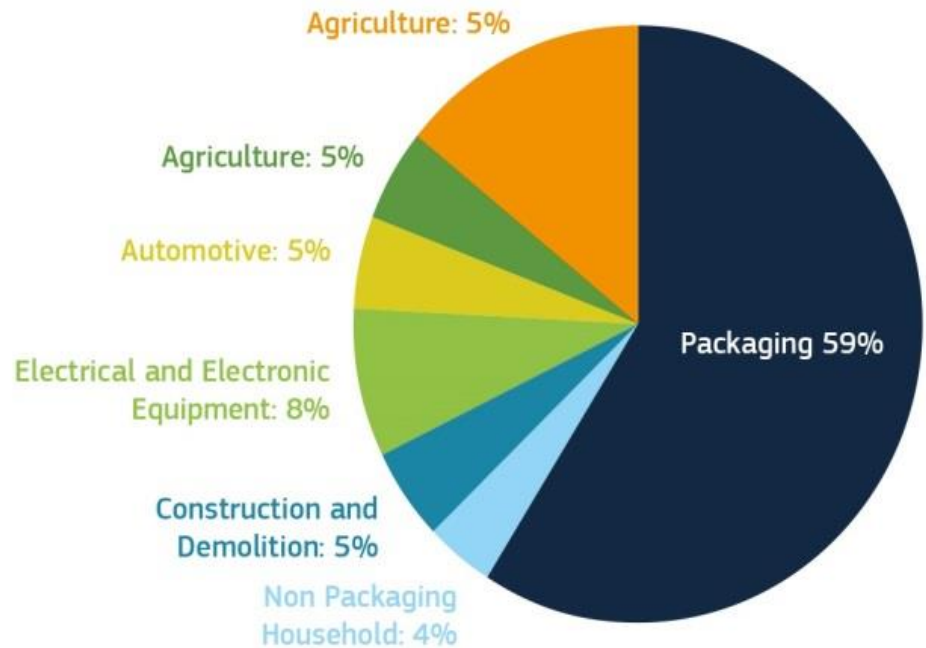


EUROPEAN PLASTICS DEMAND IN 2015

49 million tonnes



EU PLASTIC WASTE GENERATION N 2015

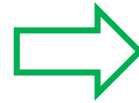


Source: Eunomia (2017)



Plastics: what do we want to achieve?

*The Plastics Industry
of the future*



Smart
Innovative
Sustainable



ECONOMIC
OPPORTUNITIES



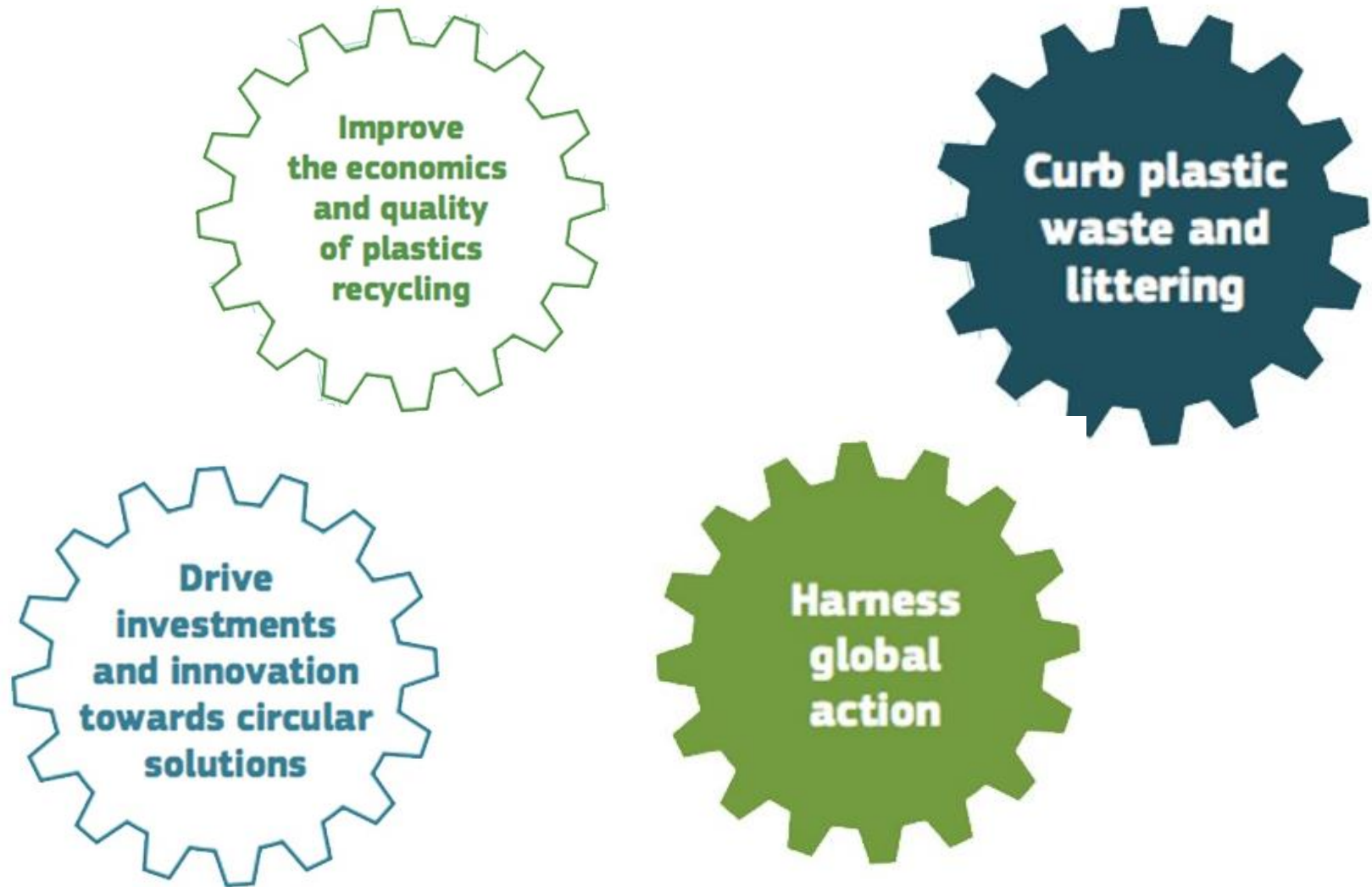
SOCIAL INNOVATION



PROTECT THE
ENVIRONMENT



A EUROPEAN STRATEGY FOR PLASTICS IN THE CIRCULAR ECONOMY



Waste treatment

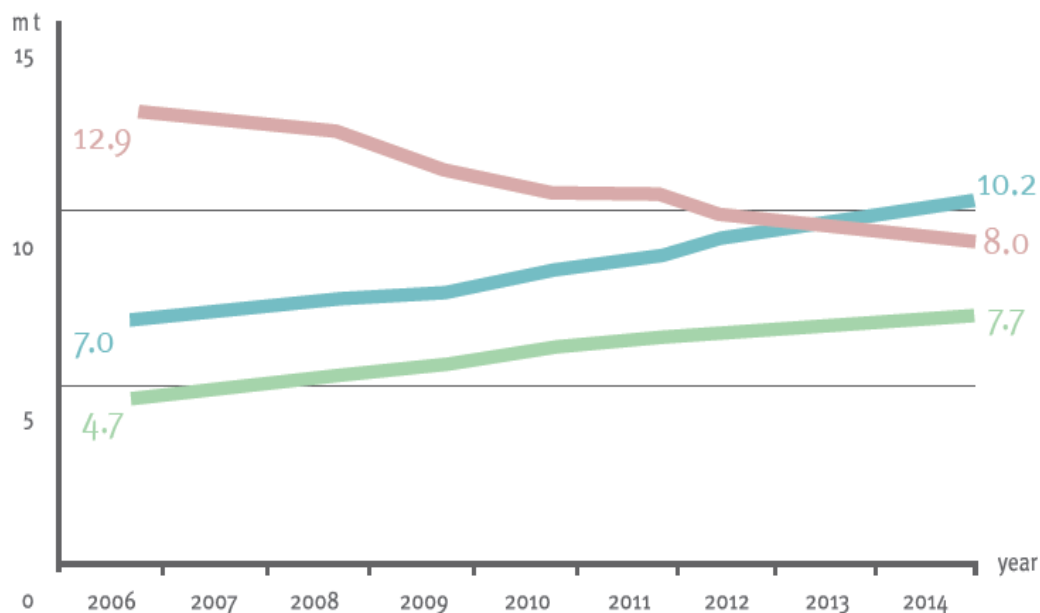


Recycling 29.7%

Energy recovery 39.5%

Landfill 30.8%

2006-2014 waste treatment evolution:



+ 64 %

Recycling

+ 46 %

Energy
recovery

- 38 %

Landfill

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

*Based on in-put quantities into recycling facilities.



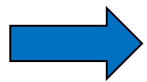
- Framework for biodegradable plastics
- Report on oxo-degradable plastics → REACH restriction
- Revision of directive on port reception facilities
- Curb microplastics pollution:
 - intentional added to products → REACH
 - unintentional release (tyres, textiles and plastics pellets)
- Improve monitoring, national litter plans (waste package): halting marine litter



Policy Objectives



Stimulate design for circularity
Better separate waste collection (waste package/EPR)
Boosting recycled content
Quality standards for sorted/recycled plastics



By 2030

- All plastics packaging reusable or recyclable
- Sorting & recycling capacity X 4 (vs. 2015)
- 55% recycling target (waste package)





CO₂ BENEFITS OF PLASTICS RECYCLING



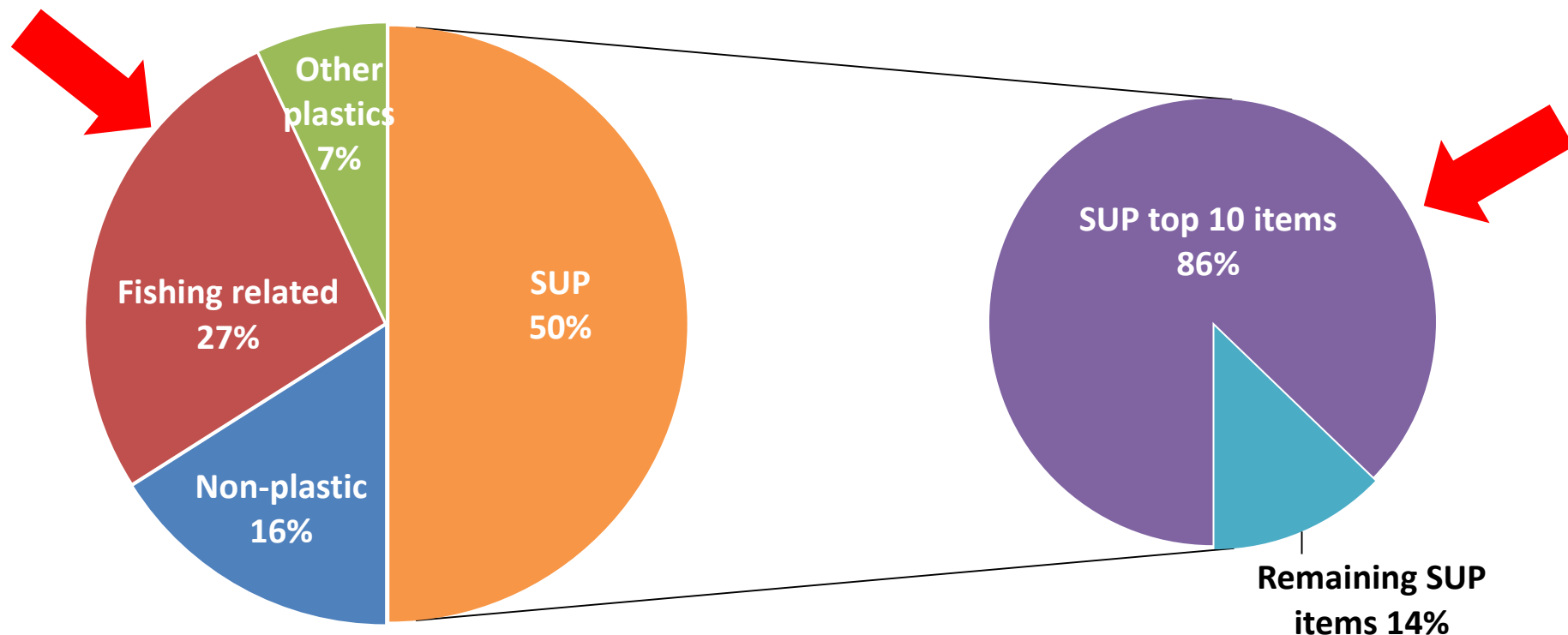
- **Guidance on eco-modulation of EPR fees**
- **Strategic Research Innovation Agenda for Plastics (2018)**
- **H2020 additional €100 million investments** (up until 2020)
- **Support the development of alternative feedstocks**
→ **lifecycle assessments** including biomass



- **Call for global action**
- **Support for multilateral initiatives on plastics**
- **Promote international industry standards development**
- **Development in cooperation funding**



Most found marine litter items on European beaches



- 70% covered of all marine litter: top 10 SUP (43%) + fishing gear (27%)
- Source:
 - Joint Research Centre - European Regional Seas Conventions
 - Marine Strategy Framework Directive

Proportional approach



Ranking	Item
1	Drinks bottles, caps and lids
2	Cigarette butts
3	Cotton buds sticks
4	Crisp packets / sweet wrappers
5	Sanitary applications
6	Plastic bags
7	Cutlery, straws and stirrers
8	Drinks cups and cup lids
9	Balloons and balloon sticks
10	Food containers including fast food packaging

Measures

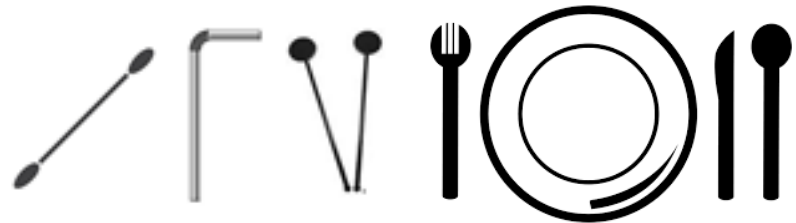


	Consumption reduction	Market restriction	Product design requirement	Marking requirements	Extended producer responsibility	Separate collection objective	Awareness raising measures
Food containers	X				X		X
Cups for beverages	X				X		X
Cotton bud sticks		X					
Cutlery, plates, stirrers, straws		X					
Sticks for balloons		X					
Balloons				X	X		X
Packets & wrappers					X		X
Beverage containers, their caps & lids			X		X		X
- Beverage bottles			X		X	X	X
Tobacco product filters					X		X
Sanitary items: - Wet wipes				X	X		X
- Sanitary towels				X			X
Plastic carrier bags					X		X
Fishing gear					X		X



Measure: Market restriction

- **Restrictions** only target the plastic content, not the product itself
- Only products with readily alternatives (single & multi use):
 - Cotton bud sticks
 - Cutlery
 - Plates
 - Straws
 - Beverage stirrers
 - Sticks for balloons
- **Product design requirement** for the top littered item (single-use beverage containers): **plastic caps and lids must remain attached during use**





Measure: Consumption reduction

- **Significant reduction** of consumption of on-the-go products:

- Food containers
- Cups for beverages



- **Member States choose the appropriate measures**

- Consumption reduction targets
- Economic instruments
- Increase the availability of alternatives e.g. re-usable



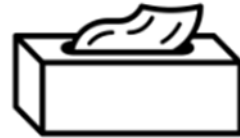
Labelling



- Balloons
- Other products that are inappropriately disposed of through the sewers: sanitary towels and tampons/applicators & wet wipes
- Implementing Act to define harmonised labelling requirements

Awareness raising and education campaigns

by Member States for all products not subject to market bans



Separate collection



- **90% separate collection target by 2025** for plastic beverage bottles (inter alia by Deposit Refund Systems and targets for EPR)



Extended producer responsibility



- Single-use plastic products (that are not subject to market ban) and fishing gear

- Financial responsibility of producers



- collection and subsequent treatment of waste

(existing obligation for packaging)

- clean-up of litter

- awareness raising *(existing obligation for packaging)*



- Consistent and building on the minimum requirements for EPR schemes as in the Waste Framework Directive

- Member States to establish specific EPR scheme objectives, including the level of ambition for clean-up activities



- **Evaluation** of the Directive after 6 years



- Report by the Commission on the feasibility to :

- **Review** the list of SUPs in the Annex
- **Set quantitative consumption reduction targets** for food containers and beverage cups
- **Lift marketing restrictions** where alternatives are possible with **biodegradable plastic** that fully addresses the concerns of biodegradability in the marine environment





Learn more about the plastics strategy and the circular economy....

http://ec.europa.eu/environment/circular-economy/index_en.htm

<http://circulareconomy.europa.eu/platform/en>



Thank you ...