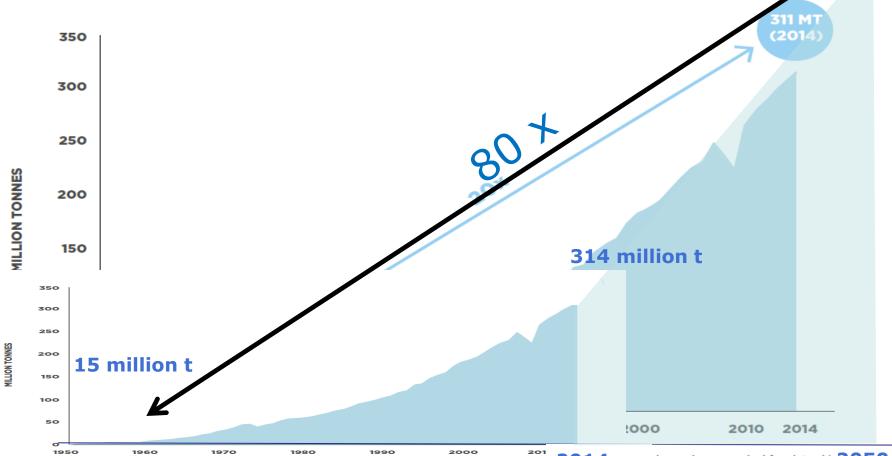


#PlasticsStrategy



Global plastic production



Note: Production from virgin petroleum-based feedstock only (does not include bio-based, greenhouse gas-based or recycle 2014
Source: PlasticsEurope, Plastics – the Facts 2013 (2013); PlasticsEurope, Plastics 2015 (2015)
วบนเษะ, Fidotuo – แย Fduto 2010 (2010), Fidotuo – แย Fduto 2010 (2010)



1200 million t



Commission Communication: "Closing the loop - An EU action planfor the Circular Economy"

- **Plastics:** one of the 5 priority areas of intervention
- "The Commission will adopt a strategy on plastics in the circular economy, addressing issues such as recyclability, biodegradability, the presence of hazardous substances of concern in certain plastics, and marine litter"





Issues

- Plastic production relies on fossil fuel with high life-cycle GHG impacts
- 2. The full potential of plastic reuse and recycling is yet to be used
- 3. Plastic leaks into the environment



1. High dependence on fossil feedstock

- Raw material is cheap (> 90% from virgin material)
- 400 mln T of GHG (2012)
- By 2050 plastic production can represent:
 - 20% of global oil consumption
 - 15% of global GHG





2. Low reuse and recycling of plastics

A wasteful society

- 26 million tons of plastic wastes generated;
- 10 million tons landfilled;
- 8 million tons incinerated;
- 8 million tons are collected (+-/ 30% of plastic waste with big disparities between Member States) only half are recycled,
- in packaging recycling can imply loosing almost 95% of plastic material value.



Options

- DESIGN for durability, reusability, reparability, recyclability
 - ⇒ Study: reuse, recycling & marine litter
 - ⇒ Product policies, EPR, deposit
- REUSE
 - ⇒ Fostering other business models
- TO ADRESS TOXIC PLASTIC
 - ⇒ Interface waste, chemicals & product policy
 - **⇒** Traceability
- INNOVATIVE TECHNOLOGIES
 - ⇒ Research & innovation for reuse, sorting & recycling, Horizon 2020



Options (2)

- LEGISLATION AND INCENTIVES TO SUPPORT
 - ⇒ Proposal waste legislation: separate collection of plastics, targets for recycling packaging, 55% in 2025
- SECONDARY PLASTIC MATERIALS AS ALTERNATIVE FEEDSTOCK
 - **⇒** Promote market for recycled plastics
 - ⇒ Standards: recycled plastics (quality) & recycled content
 - ⇒ Support industrial fora & platforms



Options (3)

Alternative feedstock: Biomass, CO₂, Chemical recycling?

⇒ Conduct a LCA of the use of alternative feedstock







3. Leakage into the environment

- 5-13 mln T a year of plastic waste end up in the oceans
- Problem is global
- Cheap and disposable material that is a driver for early obsolescence
- Microplastics (<5 mm) = threat to animal & human health



Options

- Marine litter
 - ⇒ Aspirational 30% reduction target in CEAP / SDGs;
 - ⇒ Deposit or EPR Schemes for fishing nets?;
 - ⇒ Adress single use plastics (10 most found items);
 - \Rightarrow Monitoring.
- Reduce microplastics
 - ⇒ Interdiction / REACH /EU Ecolabel.



Options (2)

- Sustainability criteria for biodegradable plastics
 - ⇒ Study: develop EU-harmonised criteria / standards for biodegradability (composting) where appropriate
 - ⇒ Assessing the use of oxo-degradable plastics
- Consumers' awareness
 - ⇒ Raise the awareness through better information





Steps Taken

- Studies:
 - "Microbeads intentionally added to products" (DG ENV) due July 2017
 - "Reduction options of microplastics resulting from but not intentionally added in products" (DG ENV) due November 2017 (open public consultation running from June to August)
 - "Plastics: reuse, recycling and marine litter" (DG ENV) due November 2017
 - Life cycle assessment (LCA) of alternative feedstock (DG GROW), with JRC. ToRs in preparation.



Steps taken (2)

Conferences:

- 8th June: by Env. Protection Agencies
- 26th September: Stakeholder conference

Targeted consultations with stakeholders

ENV GROW

Single use items (16 June)
Packaging (19 June)
Construction (27 June)
Marine litter (25 July)
Recyclability and EPR (8 Sept);
Single use - legal instrument (14 Sept);
Deposit Schemes (14 Sept);
Traceability (28 Sept).

Value Chain' and 'Sustainable Feedstock (23 June) Bio-based and biodegradable plastics (18 October)

⇒ Strategy to be presented by the end of 2017 (6th of December?)

