

Plastics feedstock & pollution: what solutions?

Jean Hornain – CEO of Citeo

World Material Forum

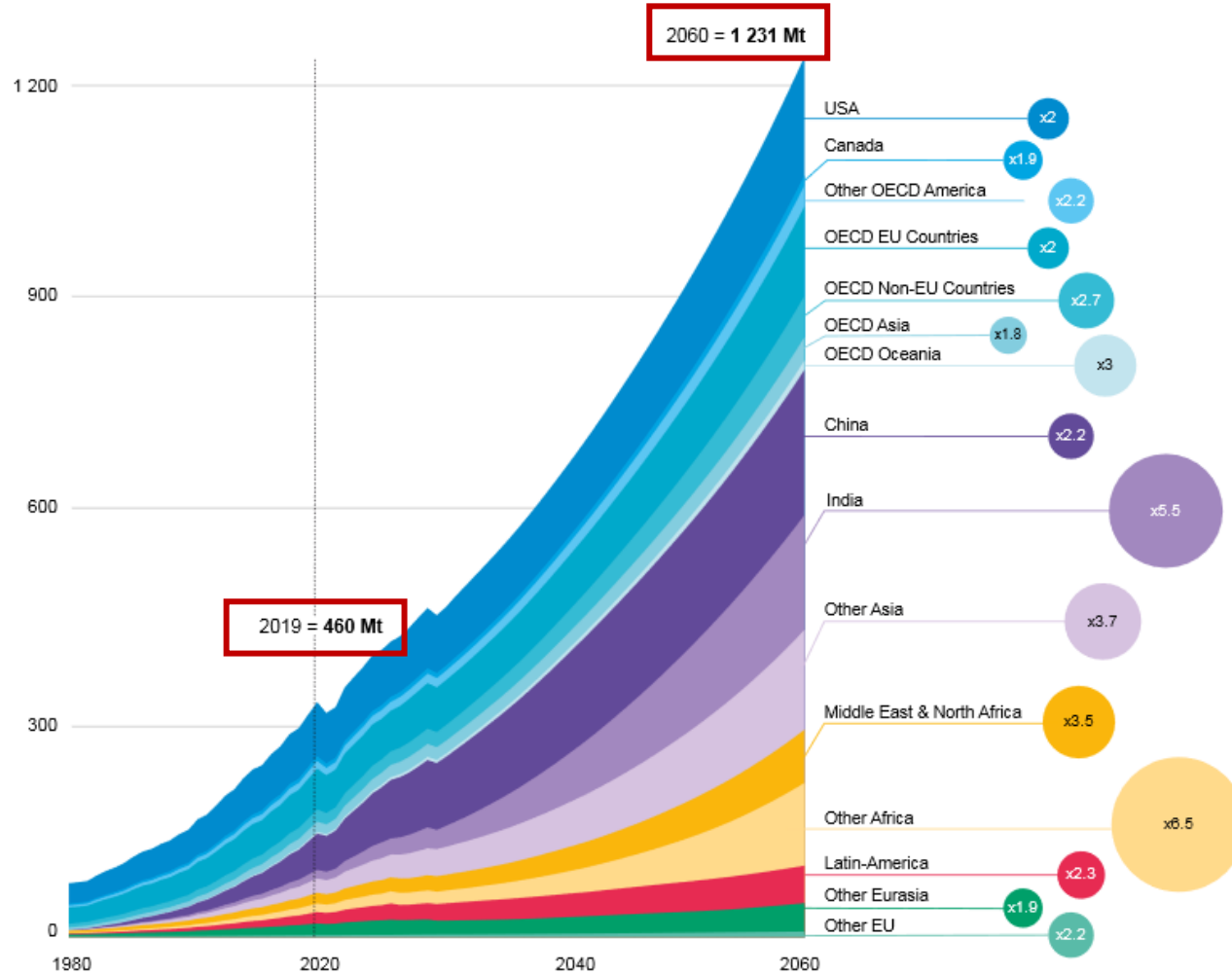


Donnons ensemble une
nouvelle vie à nos produits.



OECD (June 2022 report) : worldwide plastic production expected to grow fast by 2060

Plastics use in million tonnes (Mt), *Baseline scenario*



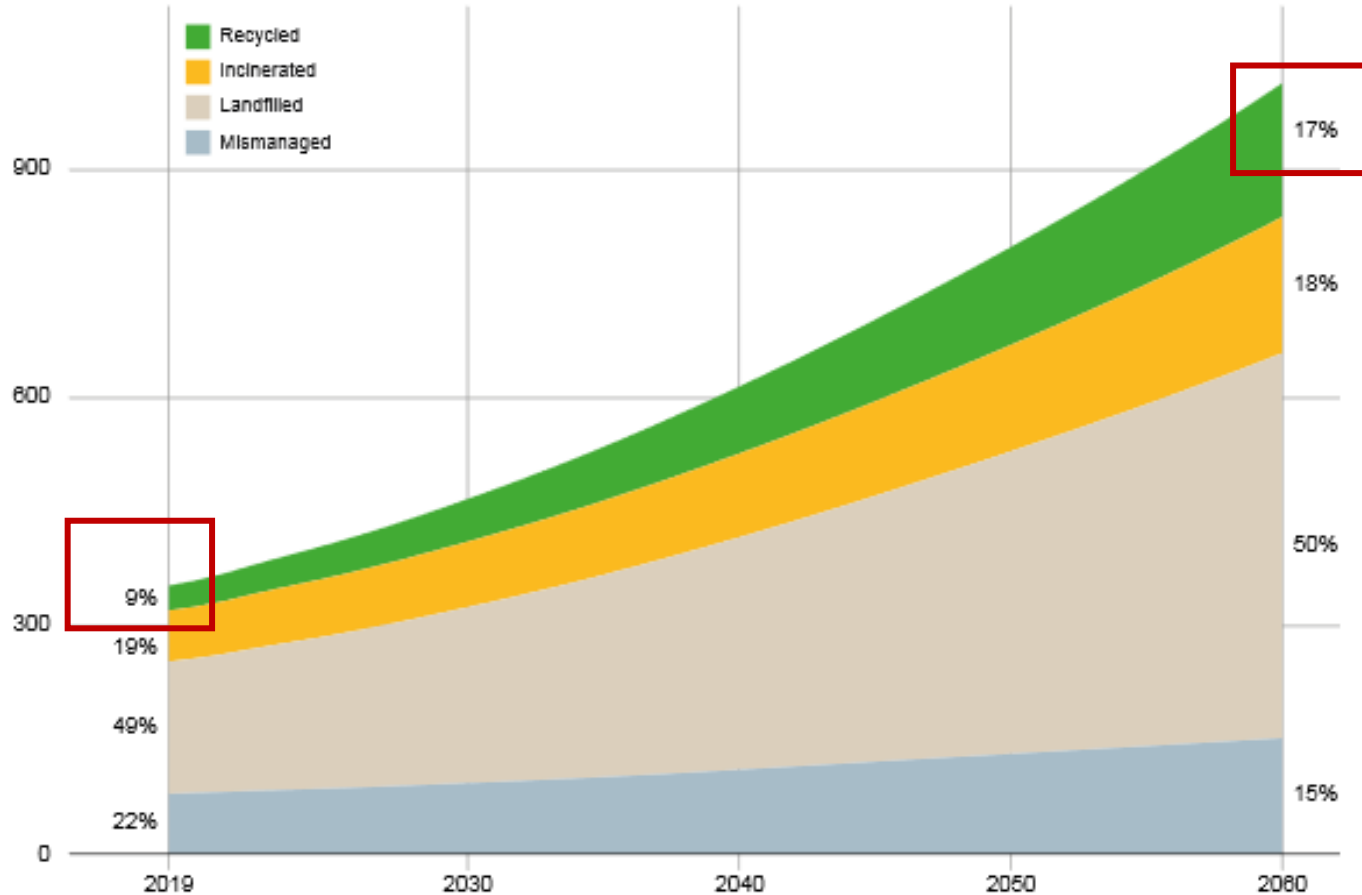
Plastics use is projected to grow
from 460Mt in 2019
to + 1200Mt in 2060

Packaging (household
and industrial)
= 40% of total
production

Source: OECD report *Global Plastics Outlook Policy Scenarios to 2060*, June 2022

OECD (June 2022 report) : today less than 10% of plastic is recycled in the world and less than 20% in 40 years if we do not take firm actions

Plastic waste in million tonnes (Mt) by waste management category, after disposal of recycling residues and collected litter, *Baseline scenario*



- Recycling is projected to grow at a faster pace than all other waste management approaches, with recycling rates increasing **from 9% in 2019 to 17% in 2060**.
- Recycling is projected to represent a smaller share of waste management compared to **incineration (18%) and sanitary landfilling (50%)**.

Source: OECD report *Global Plastics Outlook Policy Scenarios to 2060*, June 2022

Plastic pollution: a disaster for humanity



Plastic pollution: a disaster for humanity



What solutions can
be considered?



In Europe: EU is taking the lead for a circular economy of plastics

Regulation on
sustainable
products

Revision of the
Packaging &
Packaging Waste
Directive

Revision of the
regulation on food
contact recycled
plastics














Revision of the
Waste Shipment
regulation

Single Use
Plastics
directive

Revision of the
waste framework
directive

Europe is investing in chemical recycling : we need to improve collection to provide feedstock, through communication/education, collection means and incentives

Focus: most important investments announced in France:

	Announced Capacities	Estimation for french household packaging feedstock in 2026 *
PET (colored, opaque and trays)	<div><div></div><div></div><div></div><div></div></div> <div><div>80 000 tons</div><div>160 000 tons</div><div>70 000 tons</div><div>50 000 tons</div></div>	60 – 80 000 tons
Films (PE & PP)	<div><div></div><div></div></div> <div><div>15 000 tons</div><div>25 000 tons</div></div>	50- 80 000 tons
PS	<div><div></div><div></div></div> <div><div>15 000 tons</div><div>30 000 tons</div></div>	15 -20 000 tons

* Citeo estimation, based on evolution of packaging put on market, collection and sorting of waste

...but the issue plastic pollution is worldwide



More than **95% of plastics** in the oceans come from 10 rivers, 8 of which are located in Asia.

*Estimation of global plastic loads delivered by rivers into the sea
Helmholtz Centre for Environmental Research - UFZ,
Department of Hydrogeology, Leipzig, Germany*

...nevertheless, European countries are also concerned.

... the Mediterranean, rivers and lakes ...

Du plastique toxique sur les rives du Léman ?

Lundi 23 avril 2018 à 4:32

Par Coline Ouziel, France Bleu Pays de Savoie et France Bleu



Les déchets plastiques des rives du Léman contiennent des taux élevés de substances chimiques, tels que le mercure ou le plomb. C'est ce que révèle une étude de l'Université de Genève et de Plymouth (Angleterre).

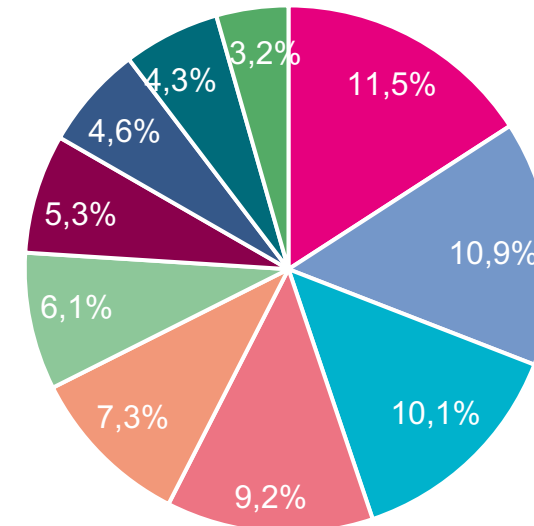


La plage d'Amphion les Bains en Haute-Savoie. © Maxppp - Patrick Gardin



Top 10 litter on the beach

European Environment Agency, 2015



- Plastic pieces 2.5 > < 50cm
- Cigarette butts and filters
- Drink bottles <=0.5l
- String and cord (diameter less than 1cm)
- Plastic/polystyrene pieces 2.5cm > < 50cm
- Polystyrene pieces 2.5cm > < 50cm
- Drink bottles >0.5l
- Tangled nets/cord
- Plastic caps/lids drinks
- Cotton bud sticks

In the world: more and more initiatives are being taken to tackle plastic pollution

Institutional initiatives

- “Rethinking plastics - Circular economy solutions to marine litter” project
- "Declare war on plastic to save our oceans" project
- European campaign on litter control through the LIFE program 2018-2020



Initiatives from NGOs



Corporate initiatives



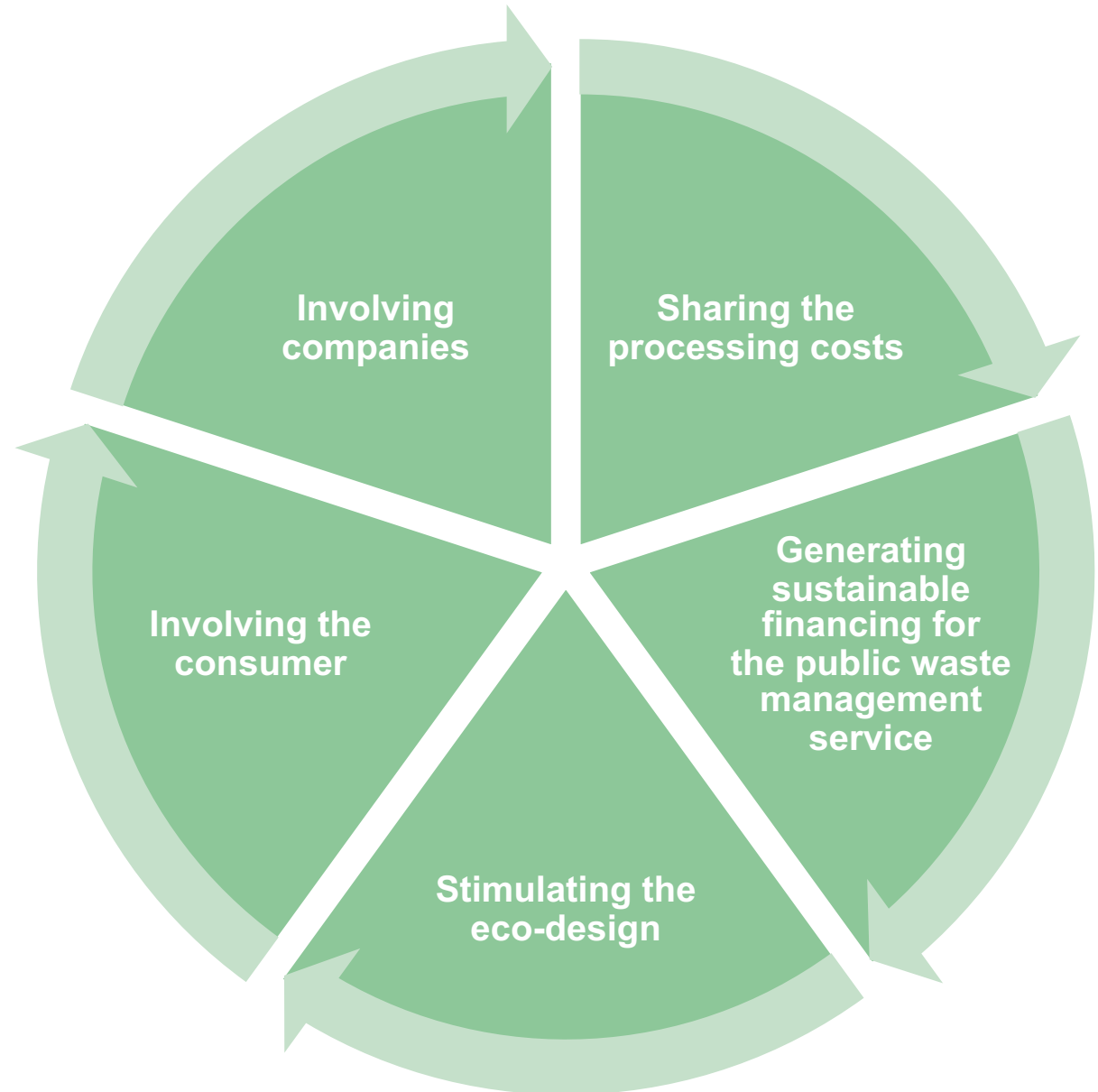
Transversal initiatives: NGOs & firms



A concrete solution: the Extended Producer Responsibility (EPR)

An environmental policy approach in which a **producer's responsibility for a product is extended to the post-consumer stage of a product's life cycle.**

By enabling the responsible end-of-life of waste to be implemented and financed, **EPR is a real tool against plastic pollution**, aiming to reduce the littering while **providing qualitative feedstock.**



Citeo, an example of an EPR scheme in Europe



A company set up by FMCG and retailers in 1992, under French government approval

“For purpose”: general interest mission

900M€ invested each year by our 30,000 clients, working with all stakeholders for R&D, ecodesign, collection, sorting and recycling of packaging

Raising awareness of 67M citizens

The world is calling of EPR implementation



“More than 100 companies in the packaging value chain and more than 50 diverse stakeholders, including NGOs and investors are calling to implement EPR to stop packaging pollution.”



“We know that improving the performance of waste management and recycling systems is an important part of progressing towards a world where no packaging ends up in nature. This requires new thinking, collaboration and financing.”



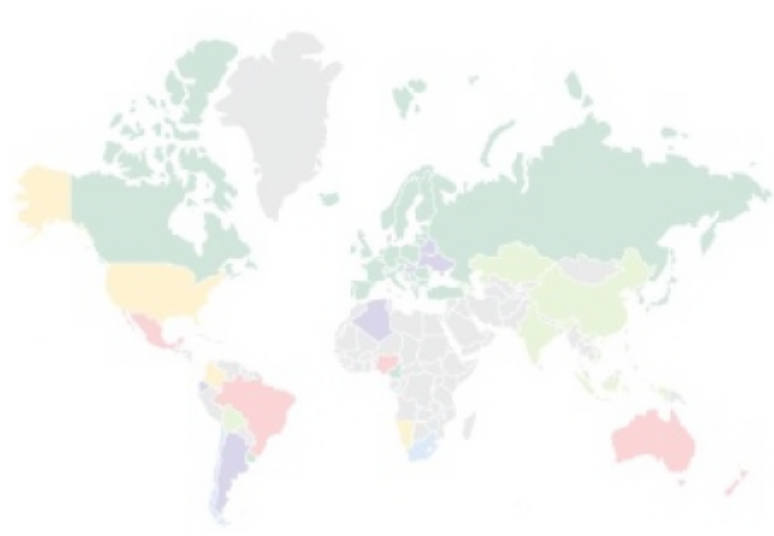
“Within the OECD the trend is towards the implementation & extension of EPR to new products”

The EPR model has been spreading since the 2000s to improve waste management systems

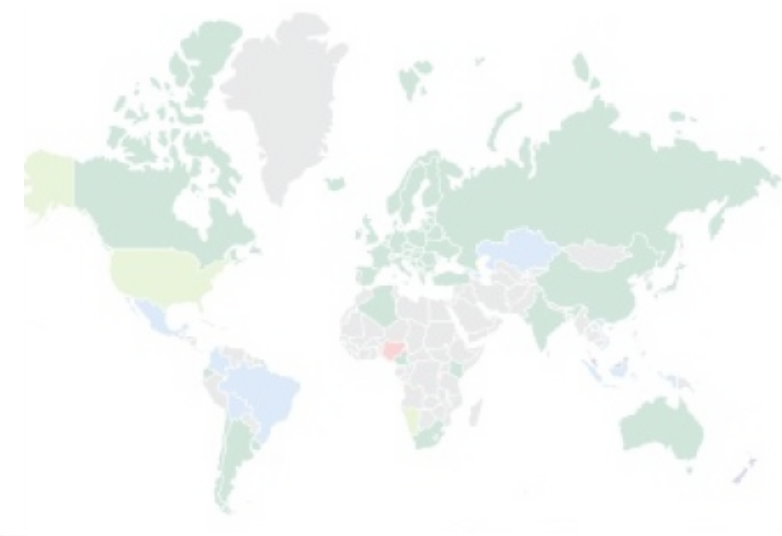
EPR for packaging in 2000



EPR for packaging in 2020



EPR for packaging in 2025



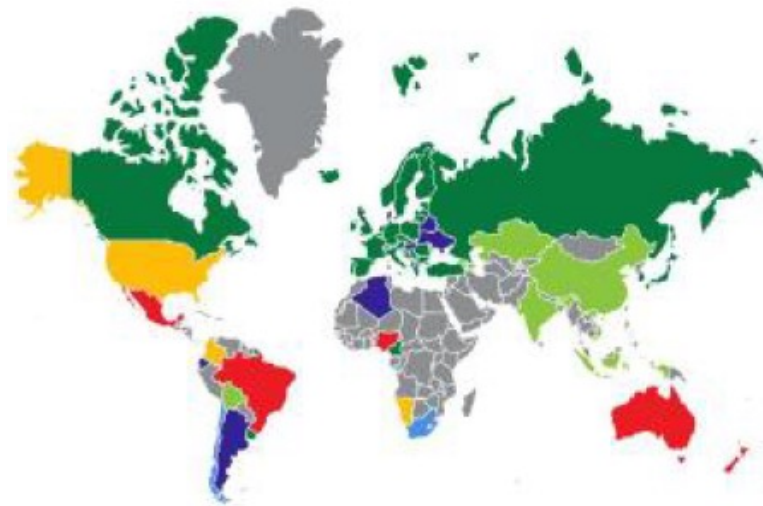
- Mandatory EPR scheme
- EPR pilot project
- EPR under development
- Regulatory framework on EPR
- Legislative proposal for an EPR under debate
- First reflections for a legal framework on EPR

The EPR model has been spreading since the 2000s to improve waste management systems

EPR for packaging in 2000



EPR for packaging in 2020



EPR for packaging in 2025



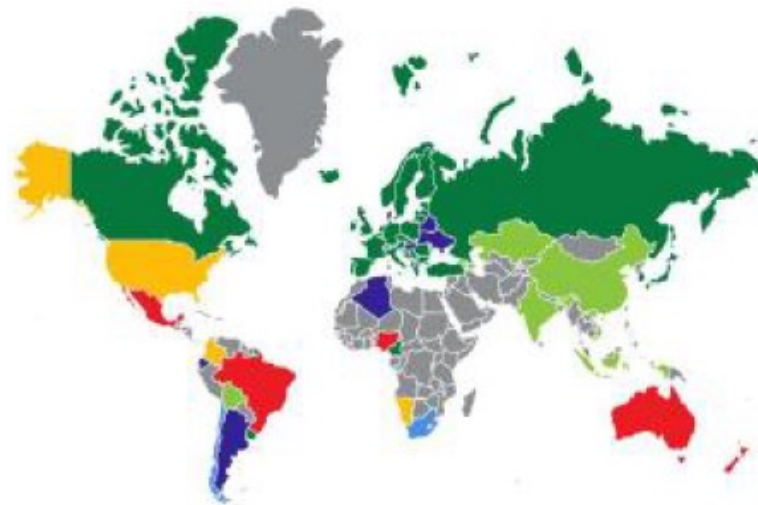
- Mandatory EPR scheme
- EPR pilot project
- EPR under development
- Regulatory framework on EPR
- Legislative proposal for an EPR under debate
- First reflections for a legal framework on EPR

The EPR model has been spreading since the 2000s to improve waste management systems

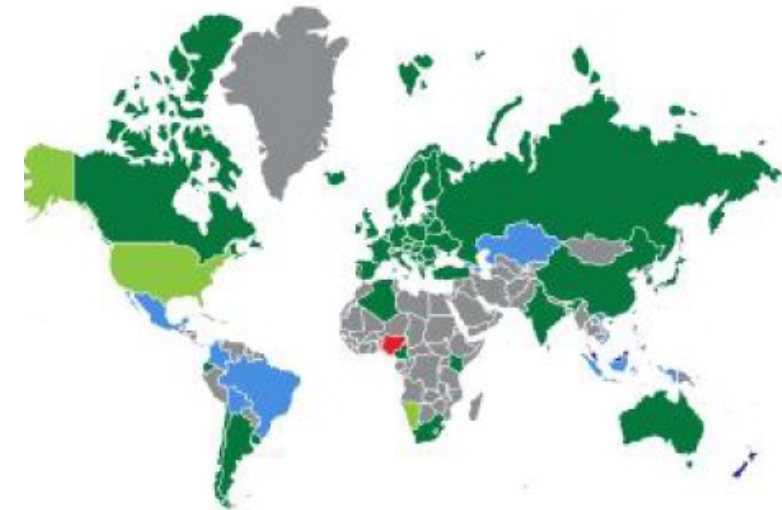
EPR for packaging in 2000



EPR for packaging in 2020



EPR for packaging in 2025



- Mandatory EPR scheme
- EPR pilot project
- EPR under development
- Regulatory framework on EPR
- Legislative proposal for an EPR under debate
- First reflections for a legal framework on EPR

To turn off the tap of plastic pollution and reach 100% circularity, we need to :

- **reduce our consumption of plastic** whenever it makes sense and therefore a strong regulation in Europe and the world;
- **invest in recycling facilities**: chemical recycling is part of the solution to close the loop of plastics;
- **develop collection in Europe** to secure feedstock using new leverages to mobilize citizens and consumers;
- **increase competitiveness of recycled plastics** : include plastic into CBAM* in Europe;
- **promote the development of EPR systems throughout the world**, providing long term and structural financing to waste management

Consumer good companies and chemical companies to support the mention of Extended Producer Responsibility as a tool to end plastic pollution and develop its circularity in the international UN treaty on plastics to be issued in 2024.



Thank you !

