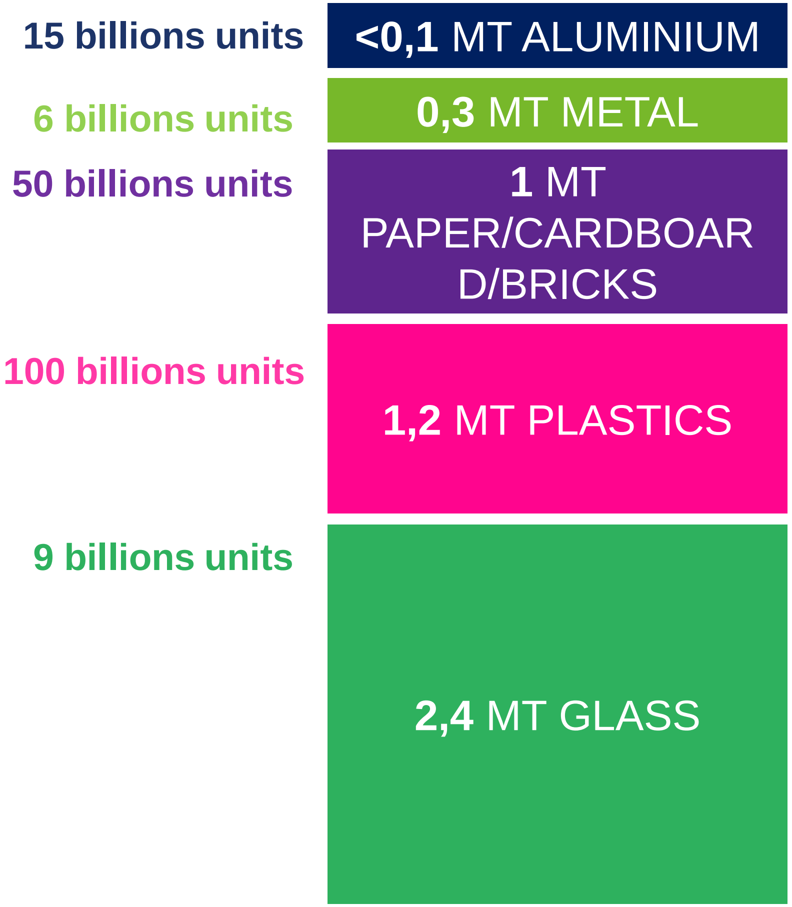
The transition towards a circular economy: the case for plastics waste – 10.02.2017

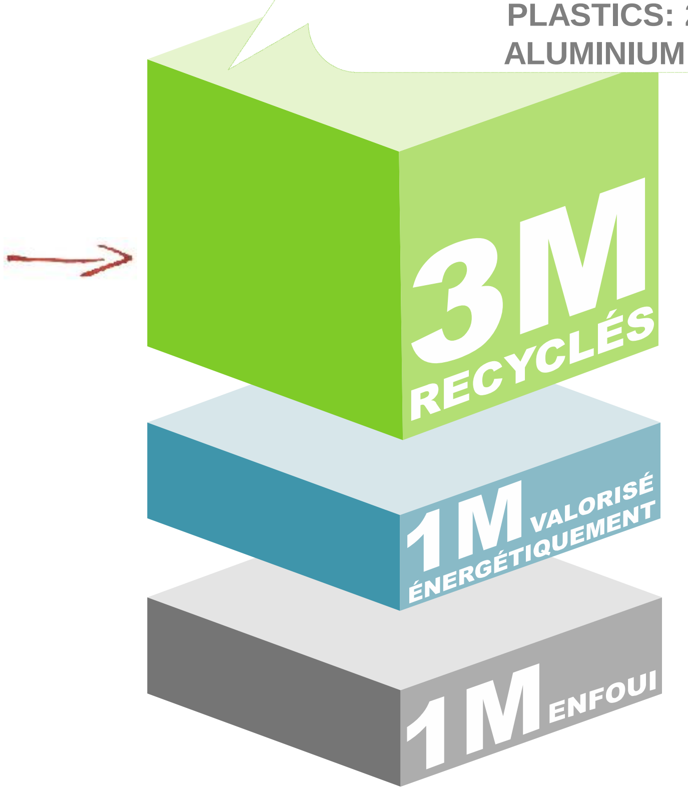
GENERAL OBJECTIVES

- Give French consumers the opportunity to **sort more and better** (not only plastics packaging but all materials)
- Increase the recyclable part of plastic packaging while **reaching an economic, social and environmental optimum**
- **Develop other recovery options** for packaging that are - and will remain - non recyclable (energy, RDF, …)
- Define collection and sorting organizations allowing to **control and reduce costs**
- **Guarantee recycling**, develop markets and applications for recycled resins

5MT OF HOUSEHOLD PACKAGING IN FRANCE



GLOBAL RECYCLING RATE: 67%
METAL: 108%
GLASS: 85%
PAPER/CARDBOARD: 67%
BRICKS: 45%
PLASTICS: 23,8%
ALUMINIUM : 35%



National target of 75% of recycling by 2022

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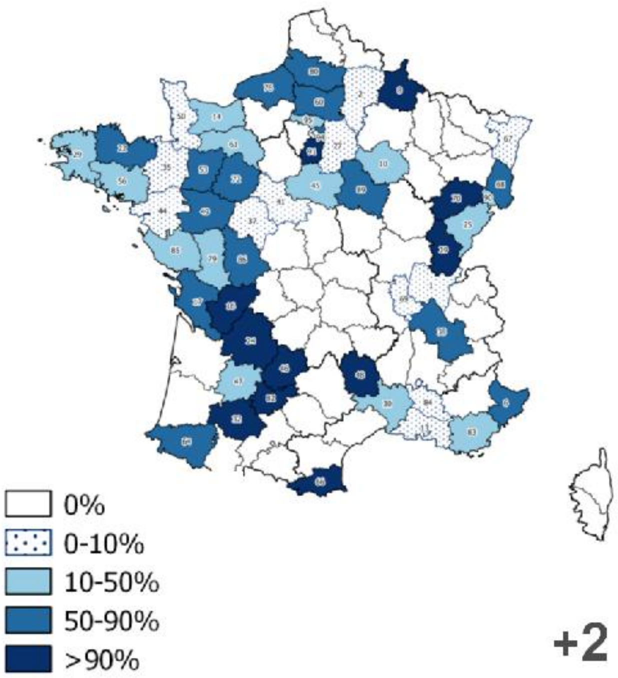
56% of plastics packaging are expected to be recycled in 2030 (+ 400,000 t)

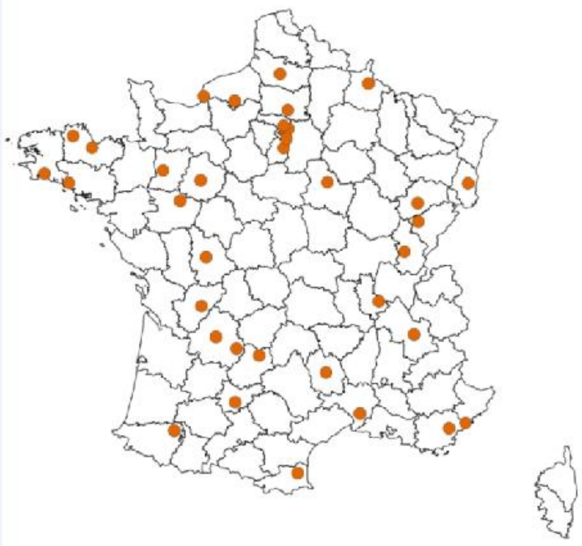
		Today's situation	Estimate for 2022	Estimate for 2030
Plastic packaging sold on French market (kt/year)		**1 090**	**1 147**	**1 207**
Of which	Bottles	435	445	449
	Trays, pots and other rigids	375	396	424
	Films	280	305	334
Packaging waste recycled (kt/year)		**256**	**445**	**675**
Of which	Bottles	250	311	368
	Trays, pots and other rigids	4	100	232
	Films	2	34	75
Plastic packaging recycling rate		**23%**	**39%**	**56%**
Of which	Bottles	**57%**	**70%**	**82%**
	Trays, pots and other rigids	**1%**	**25%**	**55%**
	Films	**1%**	**11%**	**23%**

IMPLEMENTATION BY MUNICIPALITIES AND SORTING CENTRES
TARGETS REACHED END OF 2016

15M inhabitants sort all packaging



36 modernised sorting centres



9 new pilot sorting centres

+2 kg/inhab/year of new plastics
+ same effect for other materials

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FOCUS ON THE NEW STREAMS & THEIR MARKET

	PET bottles, & flasks PET trays & pots	Already in place	
	PEHD/PP, bottles, & flasks PEHD,/PP trays & pots	Already in place	
	Flexible films PEBD/PEHD	Already in place, to be consolidated	
	PS/XPS/PSE trays & pots	Difficult to sort, limited outlets	
	Complex /multilayer PET trays & pots; PP/complex or too tiny flexible films	Design to improve recyclability or energy recovery	
	PVC	Non conclusive recycling tests : chlored plastics not fit for energy recovery. Elimination as a waste.	

Increasing plastics packaging recyclability with packers & fillers

Packaging innovation: MERALLIANCE

Reducing aluminium: ALBEA, ELVIR

Guide of best practices: SYNDIFRAIS

Mono-material trays: KERMENÉ, ELIVIA, HERTA, BEL

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CONCLUSIONS

- **Need to involve all actors of the packaging value chain:**
  - Packers & fillers (« design for recycling »)
  - Consumers (in sorting their waste properly)
  - Municipalities (optimised selective collection)
  - Recycling industry (expertise sharing)

- **Need to modernise sorting:** fewer sorting centres (240 today, i.e. an average of 1 for 250,000 inhabitants), automatisation, industrialisation

- **Need for a stable and well-defined quality of recycled materials** so as to allow sound market developments, to ensure outlets, and to avoid dependency on exports