

About reducing single use plastic in the food service industry...

The french example

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Plastic without regulation...

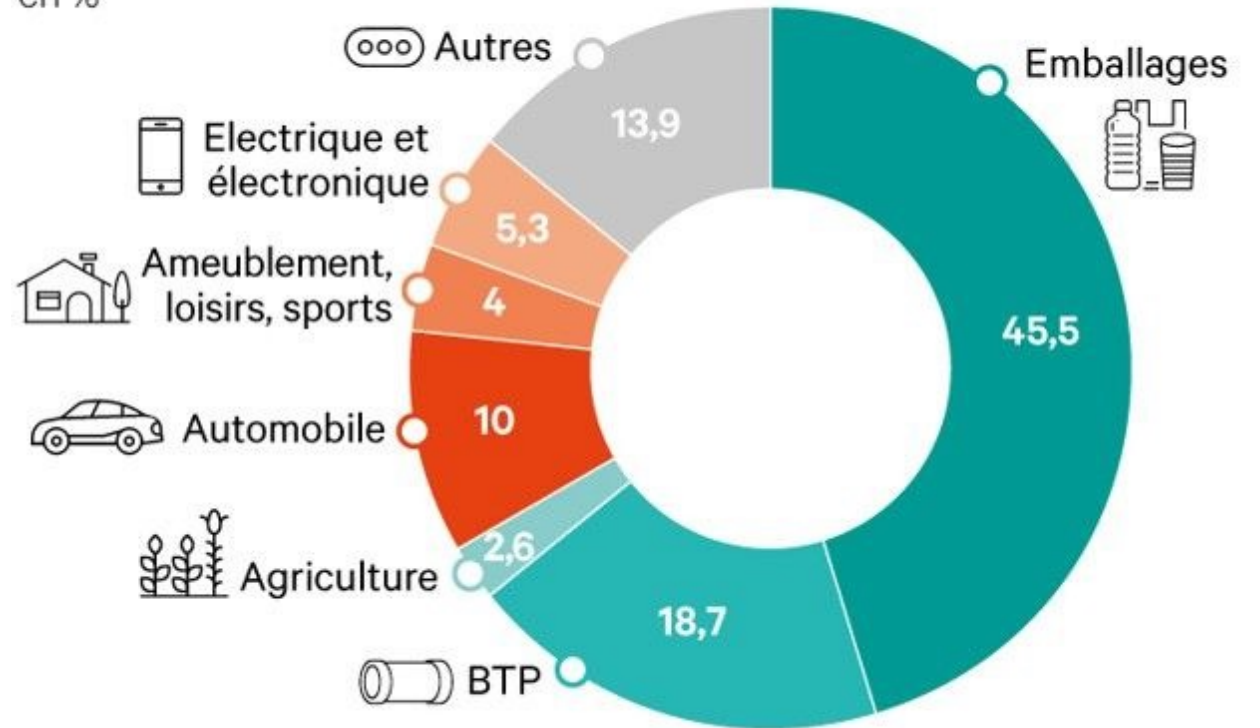
Food service industry is not the only one to throw away plastic but...

in 2022, 20 billions containers and cutlery for 40 000 fast food restaurants in France have been thrown away...

(no figures for collective catering...)

La consommation de plastique en France

Consommation de matières plastiques par secteur, en 2017, en France, en %



« LES ÉCHOS » / SOURCE : ATLAS DU PLASTIQUE 2020, FPC

«I want to ban all unnecessary plastics»

François-Michel Lambert
Député des Bouches du Rhône
October 2018

Which regulation in France ?

(F) FOOD LAW (EGALIM) – 2018

Amendment proposal adopted on 09/14/2018

« Banishing single use plastic from 2021 to 2040 »

(EU) SUP Directive (Single Use Plastic) 2019/904 adopted in June 2019

(F) AGECE* LAW – 2020

** Anti-waste for a circular economy law*

What impact in commercial catering ?

1st step : replacement of packaging / plastic straws / cutlery / cups...



2021



What impact in commercial catering ?

2nd step : reusable plates, cutlery, glasses for on site eating

2023



Or 100% compostable material

2023

Cellulose with PLA liner for liquid

PLA is compostable and bio-sourced

but still plastic with solvents, additives, glu...

Paper, cardboard, wood not adapted for long conservation

Only industrial composting or methanization

What impact in commercial catering ?

Mac Donald, Burger King...
on the right path...

Domino's Pizza, Starbucks, Five
Guys,...
Not ready yet...



What impact in commercial catering ?



Hospital cafeteria
(really compostable... and composted ?)



Over 20 seats

Museum cafeteria
(cutlery ok !)



What impact in commercial catering ?

What about clearing and washing ?
(Induced ventilation system)

What about storage ?

Small areas in fast food (in big cities)
Low/unqualified staff
Time spent

= Financial balance ?

What impact in commercial catering ?

Any solutions to prevent theft

Packaging returns
(adapted for on site and take away
possibly from a restaurant to another)

Means traceability
(portals and scans, monitoring...)

To be followed...

What impact in collective catering ?

1st step : replacement of packaging / plastic straws / cutlery / cups...



2020



Picnic...

What impact in collective catering ?

2nd step : reusable containers for home delivery (meals on wheels)



2022

Solutions glass, stainless steel, ceramic, other material ?

Problems : lids, handling, traceability, returns, washing, storage...

What impact in collective catering ?

3rd step : non-plastic containers in school & childcare catering
(cooking, reheating, serving)



2025

Plastic still authorized for other uses (cold dishes, transport)

What impact in collective catering ?

Many possible solutions...

Single use aluminium, cardboard, biosourced “plastic”
(like E.G bamboo,...)

Problems : quality of packaging, durability, waste management, recovery, etc... and still plastic sometimes

Reusable glass, stainless steel, ceramic

Problems : lids, handling, weight, traceability, deposit, washing, storage, usability...

What impact in collective catering ?

And evolutions...

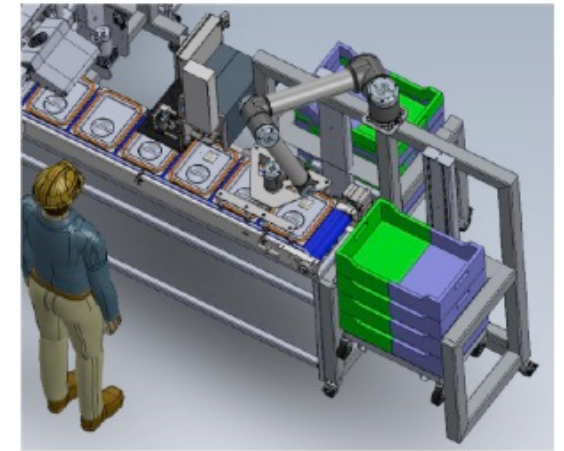
- Lighter, airtight, partial vacuum assisted closure, engraved QRcode (*Bourgeat*)
- Resistant, total vacuum closure, waterproof, engraved QRcode (*Rieber*)



What impact in collective catering ?

- Conditioning and lid closure line
- Automatic lids closure, handling cobots and robots

(Happy Manut, Mecapack)



What impact in collective catering ?



*DURALIPACK INOX
By RESCASET*

- *Work in progress...*

*Inox, ceramic or glass with plastic foil
(heat sealing by conduction)*

*Single use cellulose container
with biodegradable and compostable
liner and sealing*

*Adapted sealing machines (Rescaset,
Mecapack)*

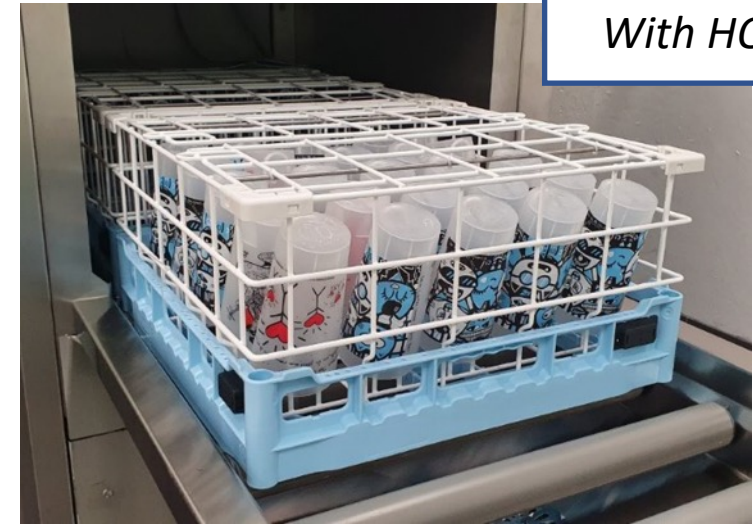
Both collective and commercial catering...

- *Work in progress...*

Centralized dishwashing units

- Mac Donald (unit for 50 to 60 restaurants) : transport, wash
- Uzaje : rental, wash : reusable glass or inox containers
- Re-Uze : rental, transport, wash – reusable plastic cups or containers
- Semelog : wash, storage, transport – inox containers and covers for the equivalent of 120,000 meals a day

...to be followed



Re-Uze
With HOBART



What about other segments ?

- Meal delivery : returns experiment
- Ready to eat dishes : less plastic in packaging (paper, bamboo...)
- Raw food packaging : Since 2021 no plastic for fruit and vegetable < 1,5 kg except red berries



And...



Cap attached to plastic bottles for any capacity < 3 liters

Tap water fountain in any public place... to be used with reusable glass or gourd



But still a lot to do...

US online site



Market in Rotterdam

E C O PLA - SMOOTHIE STRAWS
SMOOTHIE 9 & 10 inch
PAPER WRAPPED

SALE \$\$\$
www.florida-drinking-straws.com

Click Here

BESTSELLER #1	BESTSELLER #2	BESTSELLER #3
 SMOOTHIE drinking straws 10 x 0.28 inch 18 different colors available UNWRAPPED	 EXTRA LONG drinking straws 18 x 0.21 inch 9 different colors available UNWRAPPED	 SMOOTHIE drinking straws 10 x 0.28 inch 18 different colors available PAPER WRAPPED



Two stars hotel breakfast France

**Any question ?
Let's talk !**



« Plastic Can » (Boulogne sur Mer - F)