



EUROPEAN ASSOCIATION OF  
FIBRE DRUM MANUFACTURERS

**IFDI** International  
Fiber Drum  
Institute

# Fibre Drums – Recycling and Reuse Ghent 2023

Presented by:

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# Agenda

- Presentation Goals (Rob)
- Packaging Reuse & Recycling Legislation (Phil & Lacy)
- Fibre Drum materials of construction (Lacy)
- Fibre Drum Applications (Lacy)
- Overview of the market size (Rob)
- Reuse & Reconditioning of Fibre Drums (Rob)
- Recycling of Fibre Drums (Rob)
- Conclusion (Rob)
- Questions

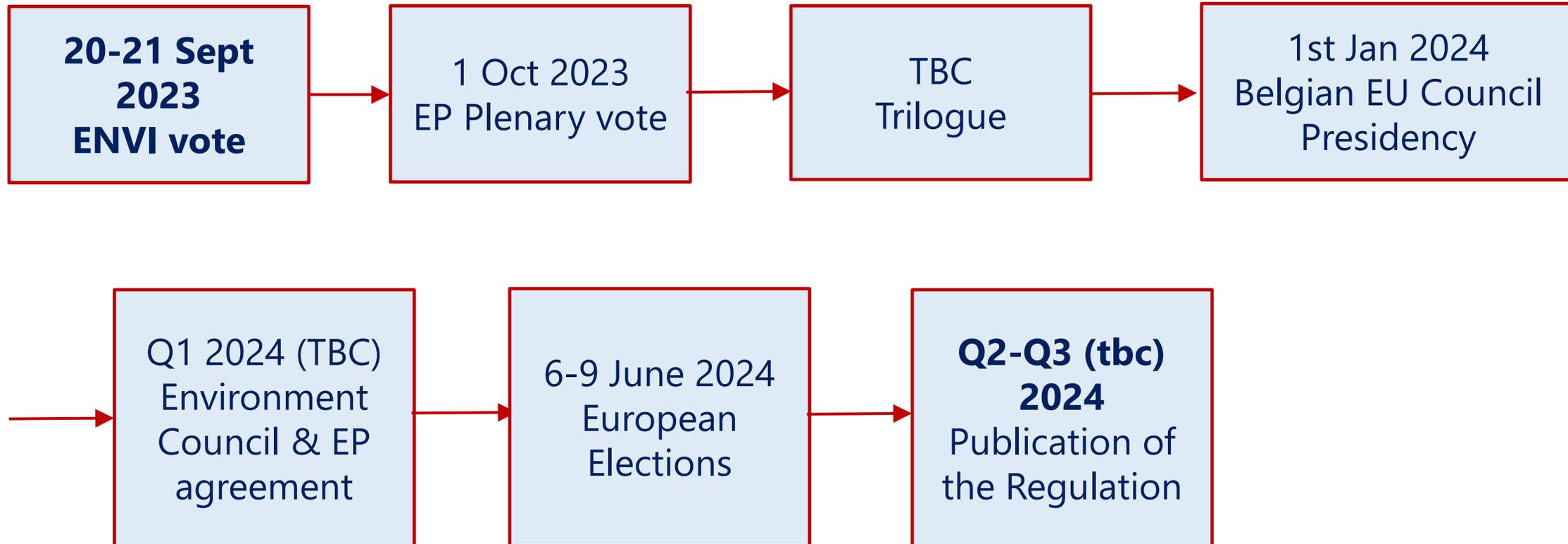


# Why?

- Delegates better informed on fibre drums and their applications
- Reconditioners and manufacturers are awoken to opportunities in fibre drum reconditioning & recycling
- Inspiration to test this business model locally



# PPWR (EU Packaging Waste Legislation): Current Timeline



Current lobbying by SERRED for used / empty, uncleaned Industrial Packaging to be regarded as 'non-waste' when consigned for reuse or reconditioning. Currently differing interpretations across EU.

# PPWR (EU Packaging Waste Legislation): Select Points

## Packaging & Packaging Waste Regulation

All packaging to be fully recyclable / Designed for Recycling by 2030

Recycled content targets for plastic packaging for 2030 and 2040.

Reusable / Refillable packaging – targets for 2030 and 2040

Labelling scheme on packaging materials:  
Inc; recycled content plus instructions to consumers

Mandatory DRS to be set up by 1 January 2029  
Applies to single-use plastic and metal drink containers < 3 litres.

## Potential Impact on Fibre Drums

Minimal impact:  
Fibre drum materials can be recycled

Potentially Difficult – recycled Kraft Fibre  
can have reduced strength

Need to ensure Fibre Drums are classed  
as reuseable packagings

Labelling schemes to be determined –  
probably similar to Italy's

Only retail packagings?...  
to monitor

# US Packaging Waste Legislation

- Several states passing sustainability laws, but mostly applicable to **single use** food packaging.
- Global customers that purchase from US packaging manufactures require packaging to pass **country specific laws** (ex. Italy, Spain, UK) along with broad-scoping laws coming from the EU.
- **European legislation** and laws are dictating how manufactures comply in the US.
- Sourcing-wise, the US has numerous groups that manage **forestry protections-** PEFC, SFI, & FSC



# Materials of Construction

Drum Part	Material
<b>Body</b>	Kraftliner (70/30 virgin/recycled), Steel Chimes
<b>Lid or Base</b>	Kraftliner, Plastic, Steel, Wood
<b>Leverclamp</b>	Steel or Plastic
<b>Integrated Liners or Coatings</b>	Paint, PE, Alufoil, Vinyl
<b>Components</b>	Caulking Material, Adhesives, Drop-in Liners, Silicate



# Why Fibre Drums & Applications

## Why Fibre Drums:

- Wide range of applications
- High value-for-money
- Lightweight & Easy Handling

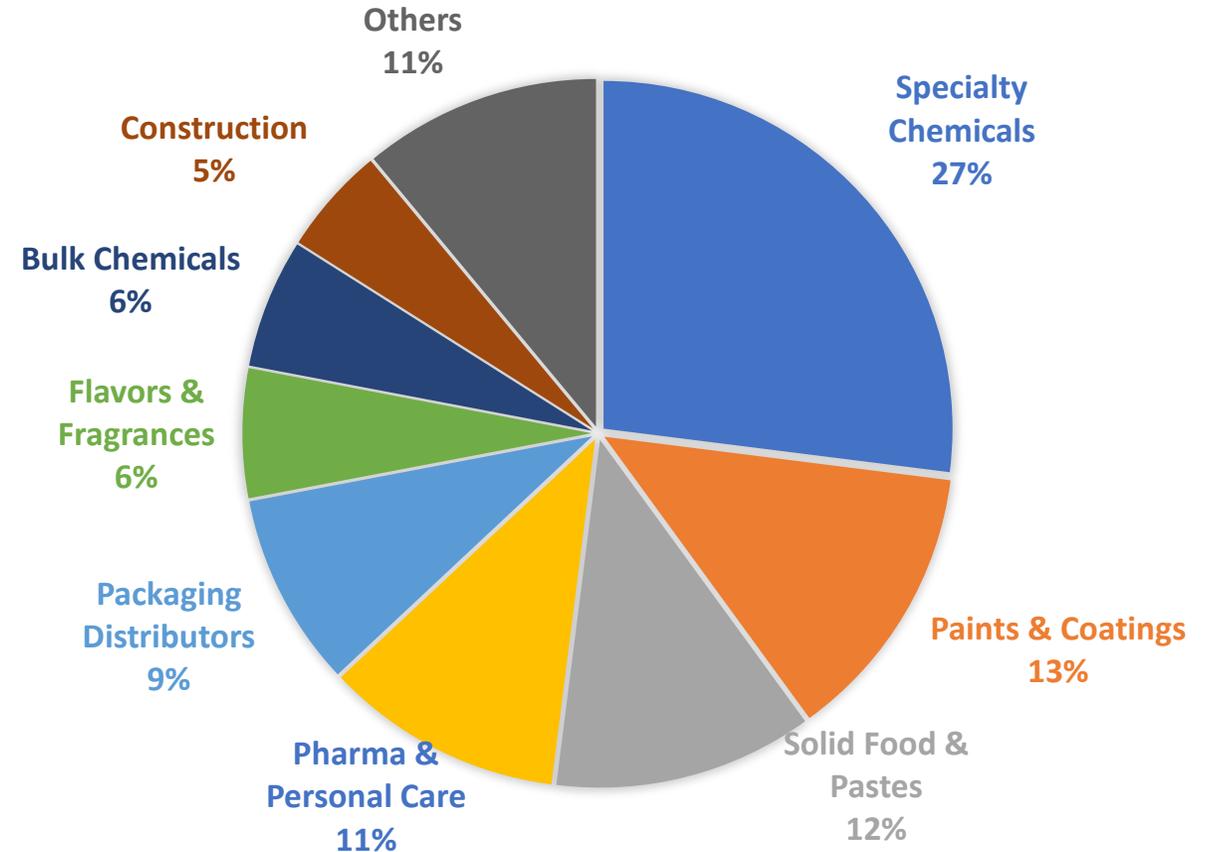
## Largest Sectors:

- Specialty Chemical, Paints & Coatings, Food Industries

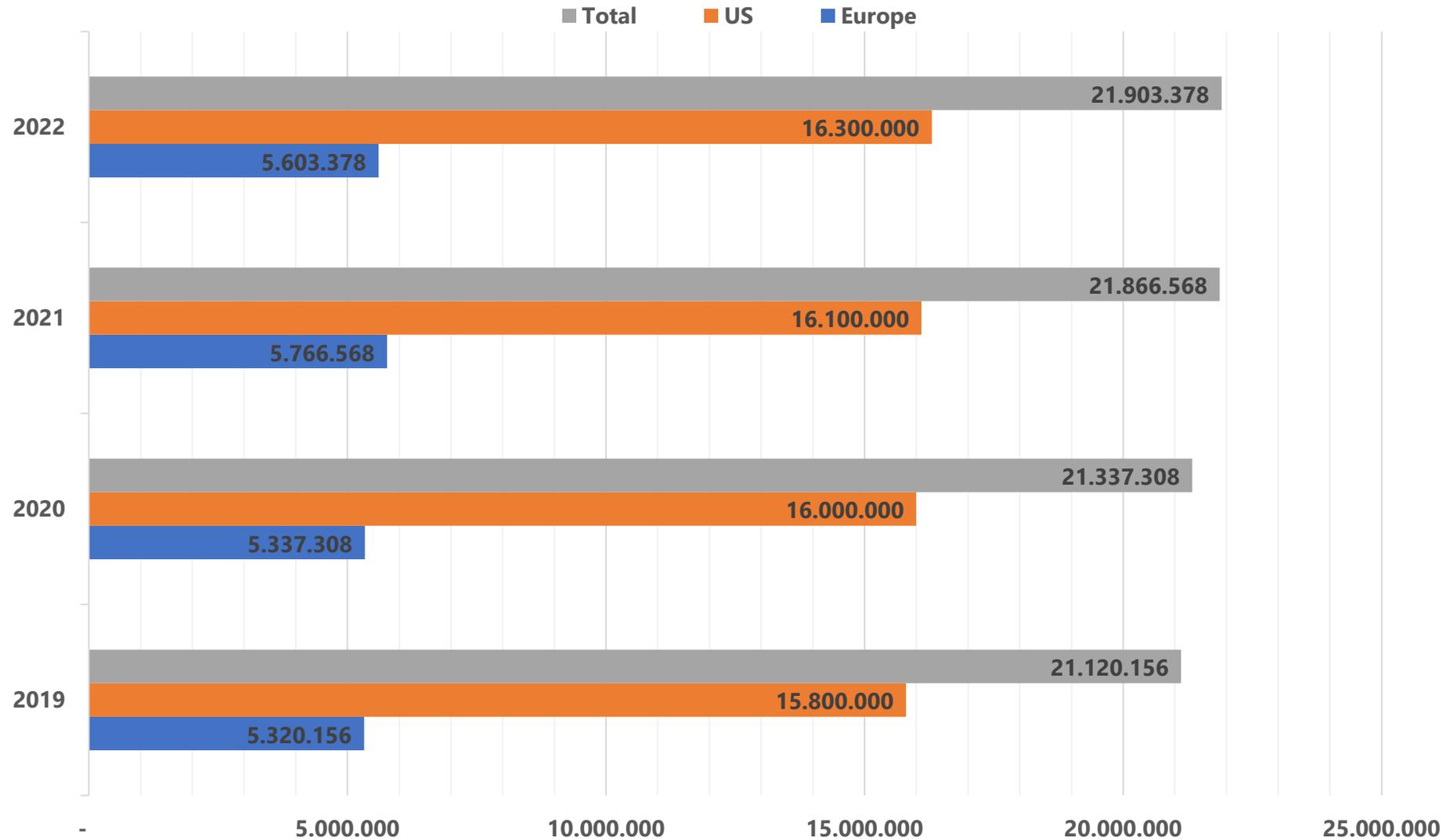
## Fastest Growing Sectors:

- Food, Flavors & Fragrances and Pharma/Personal Care segments represent highest growth segments

FIBRE DRUM SALES BY END USE



# Market Size US and Europe



# Secondary Life Cycle- Fibre Drums



Fibre Drum manufactured and shipped to customer.

Fibre Drum filled at the customer, and shipped to their customer.

The end user then has the responsibility for what happens next....

Reconditioning & Reuse

Recycle

Incineration

Landfill

# Reconditioning & Reuse of Fibre Drums

## How?

- Sort and de-label

## When does Reuse work

- Local supply matches a local demand
- Waste licenced company has the commercial interest to facilitate reconditioning
- Cost of re-used drums is lower than cost of new

## Barriers to Reuse

- Waste licencing & reconditioning network
- Demand for reconditioned Fibre drums
- Bespoke printing and logo's
- Fibre Drums used for viscous materials without a liner
- Number of different sizes

# Recycling of Fibre Drums

## How?

- Components separated by dechamber or shredder

## When does Recycling work

- When drums can't be reconditioned
- It makes commercial sense

## Barriers to Recycling

- Integrated liners can be difficult to separate, making the paper non-pulpable
- Machinery is required for drums with steel chimes
- Viscous hard to clean products filled without liner



# Conclusion

- Fibre drums can be **reused**
- Fibre drums can be **recycled**
- Talk to your teams



# Conclusion

- Fibre drums can be **reused**
- Fibre drums can be **recycled**
- Talk to your teams xxx
- Be alert to commercial opportunities to **reuse or recycle Fibre Drums**



# Materials of Construction



**Body:** kraftliner (70/30 virgin/recycled), steel chimbs

**Lid:** kraftliner, plastic, steel, wood

**Base:** kraftliner, wood

**Leverclamp:** steel or plastic

**Integrated Liners or coatings:** paint, plastic, alufoil, vinyl

# Fibre Drum Applications

