6. THE CHALLENGES OF STANDARDIZATION IN CIRCULAR ECONOMY

by Kristin Geidenmark Olofsson

1. Plastics circularity through standardisation

- Standardisation structure- From linear to circular

- Circular Plastics Alliance related to standardisation

- Conclusion

Plastics in CEN

CEN TC 33 Doors, windows & shutters

CEN TC 261 Packaging

SABE

CEN TC 155 Plastics piping

CLC TC 111x Environment

CEN TC 249 Plastics

CLC JTC 10 Energy related products

CEN TC 301 Vehicles

CEN TC 334 Irrigation techniques

Plastics in CEN

**CEN TC 249
Plastics**

CEN TC 155
Plastics
piping

CLC TC 111x
Environment

CEN TC 301
Vehicles

CEN TC 334
Irrigation
techniques

Horizontal communication

Horizontal communication

Horizontal communication

OECD

WTO

Industry

PLASTICS

Legislations

Environmental organisations

UN Global plastic agreement

CEN TC 249 Plastics

ISO TC 61 Plastics

ASTM D20 Plastics

CEN TC 155

CENELEC TC 111x

CEN TC 301

CEN TC 334

Circular Plastics Alliance & Standardisation Request

Scope

Making plastics more circular will reduce plastic pollution. This is a priority for the EU. Recycling more plastics is paramount. The Circular Plastics Alliance gathers public and private stakeholders in the plastics value chains to promote voluntary actions and commitments for more recycled plastics. **The Circular Plastics Alliance wants to ensure that 10 million tonnes of recycled plastics are used to make products in Europe in 2025.**
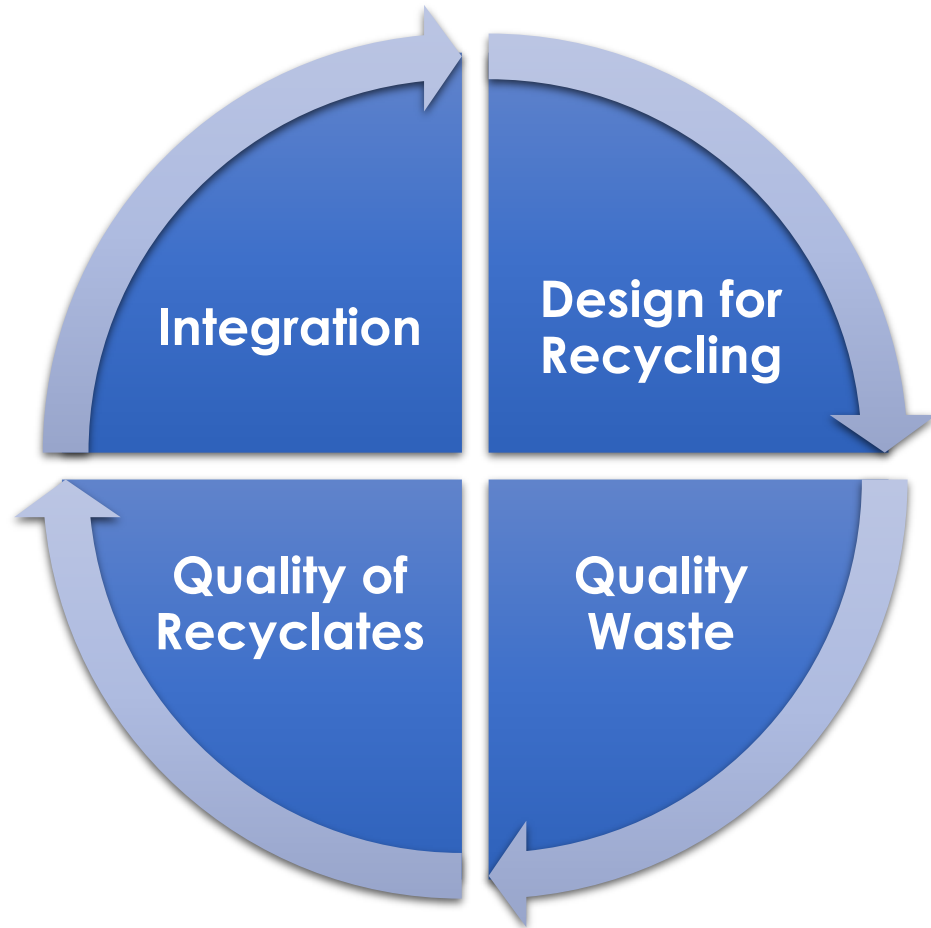
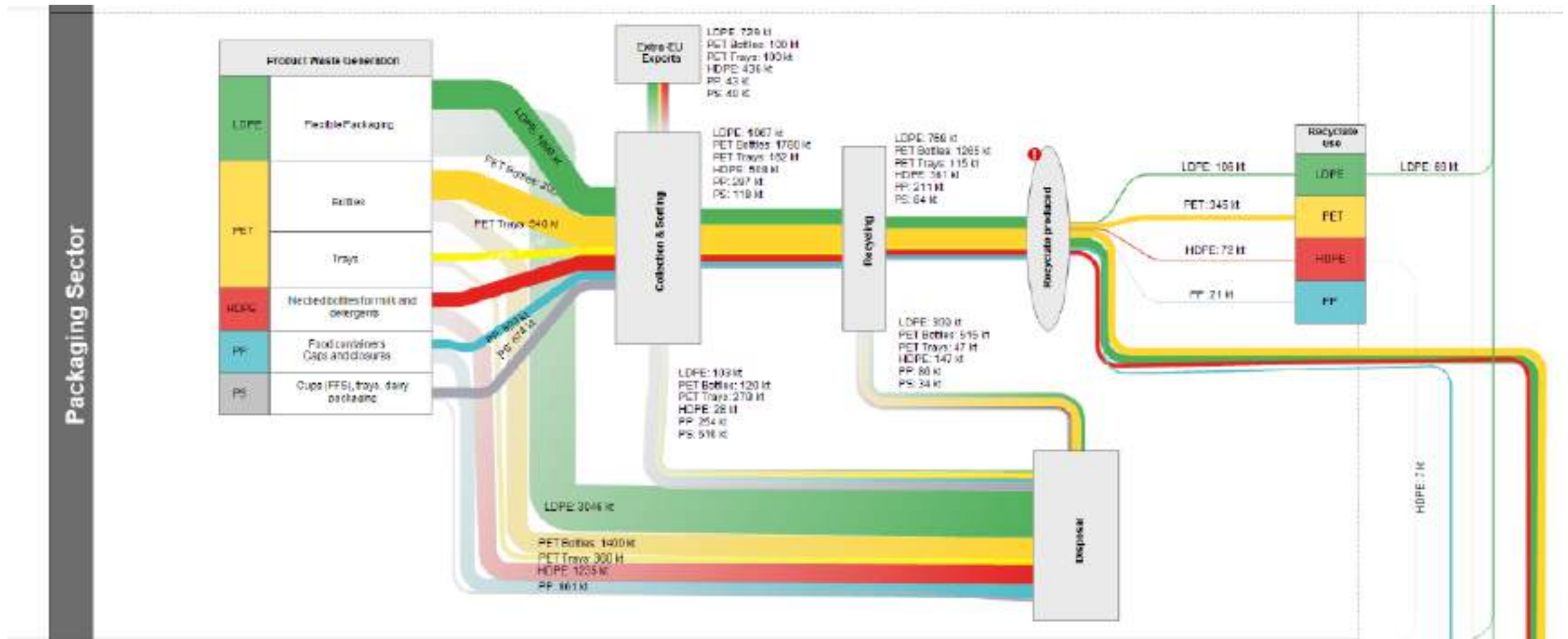# Circular Plastics Alliance structure

GENERAL ASSEMBLY

Packaging

Automotive

R&D and investments

Design for recycling

Steering Committee

Monitoring

EEE

Recycled content

Collection & sorting

Agricultural

CEN/CENELEC SRAGH

Building & Construction
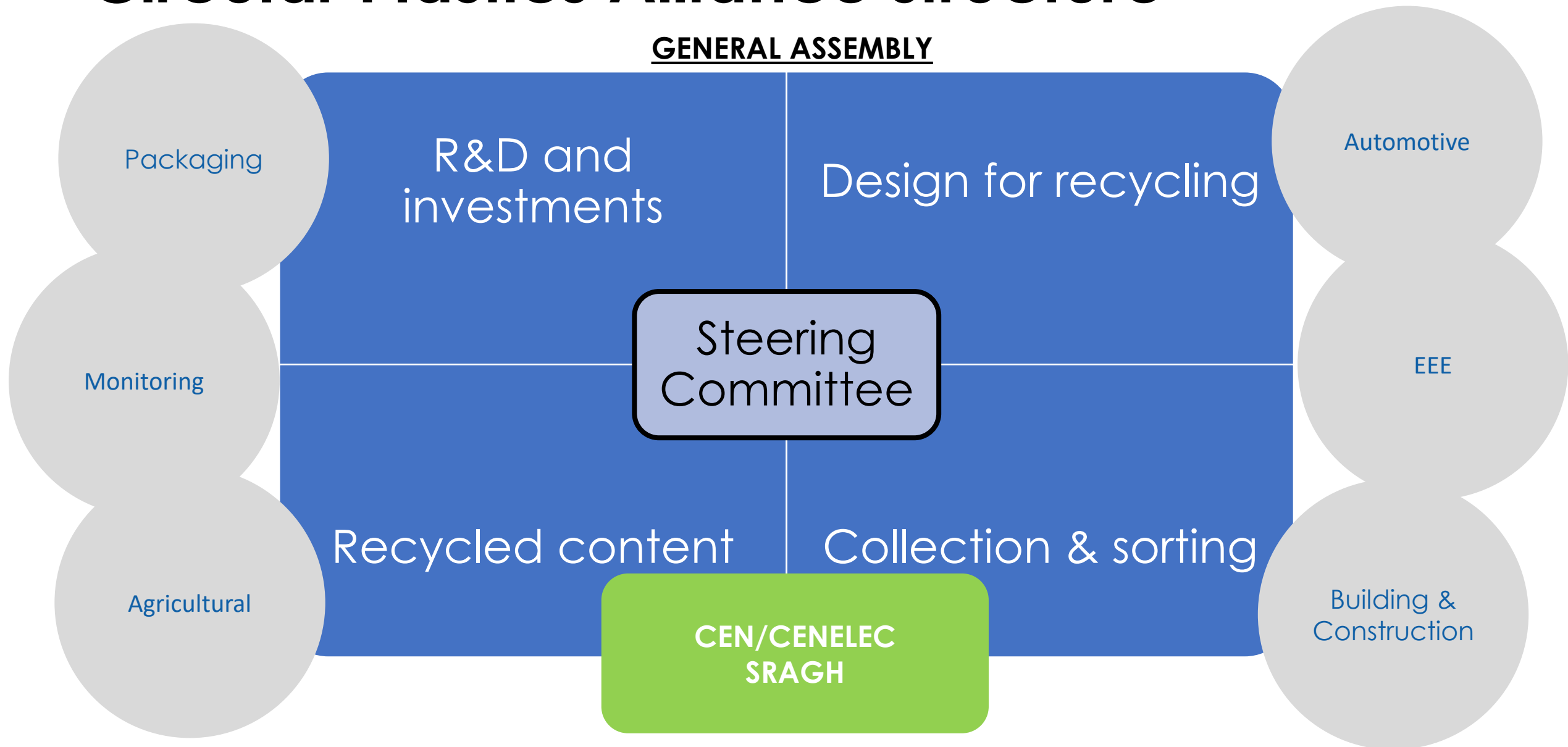
Scope of Standardisation Request

- Excluded:
  - Recycled content calculation
  - Mass balance

JRC mass flow model

Structure CPA preparations for SR

D4R

| Packaging	Agriculture	Building & Construction	EEE	Automotive
• PO flex • PO rigid • PS • PET • EPS	• Mulch films • Small tunnel films • Greenhouse films • Irrigation pipes • Silage films • Balewrap nets • Twines • Non-woven • Barrier films • Covering films	• Insulation • Cables and cable conducts • Films, sheets & membranes • Flooring • Pipes & fittings • PVC window profiles & doors	• PP washing machine tubs • ABS housing parts • PS refrigerator liners	• Shredding

Standardization request linked to legislation
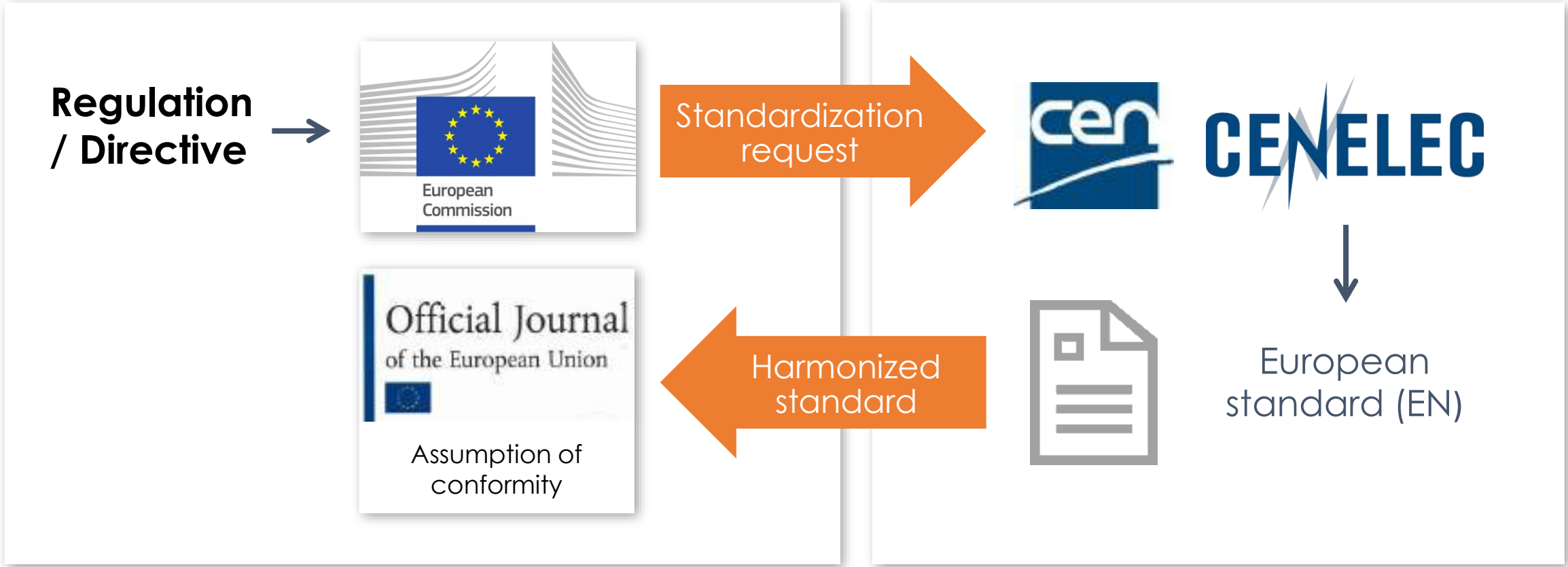
Standardization request <u>not</u> linked to legislation

Content Standardisation Request

- Recyclability evaluation
- D4R evaluation
- 29 D4R product+ material specific standards

- *General classification evaluation*
- 7 standards for material streams

Design for Recycling

Quality Waste

Integration

Quality of Recyclates

- 9 standards for quality requirements for application of plastic recyclates in products

- material related standards
- *5 characterisation standards*

Totally 58 standards:
47 new
11 revised

Conclusion of identified needs

- Circular plastics is a global change

- Linear structures needs to adapt to circularity

- Circularity will happen! With standardisation organisations adapting and moving **with** the change, it will be done in structured and globally through agreement

Thank you!

Kristin Geidenmark Olofsson
kristin.olofsson@trioworld.com