



Webinar for PETCORE EUROPE MEMBERS strictly

31 MAY 3:00- 4:00 PM CET



**Design for recycling & recyclability
assessment protocol standardization
within the PPWR framework**

ANTITRUST

For a competition safe environment

MEETINGS MANAGEMENT

- PETCORE EUROPE staff and Chairperson of the meetings will issue in advance an agenda that must not cover subjects likely to infringe the competition laws;
- Agenda and registration forms shall carry the following words: "PETCORE EUROPE is committed to complying with EU Competition Law. The participants to this meeting agree to adhere to the PETCORE EUROPE manual on competition law compliance";
- A lawyer expert in EU competition matters or a PETCORE EUROPE executive from the staff, should be present in the meetings. Discussions which occur during the meeting will be recorded in the minutes;
- If any prohibited subject is raised, Chairperson and/or PETCORE EUROPE staff should request to stop the conversation. If the discussion is continued the meeting will be closed and the foregoing recorded in the minutes;
- If necessary, PETCORE EUROPE will provide its staff and members with training and up-to-date to ensure that no activity deemed to be anti-competitive is undertaken.

MEMBERSHIP CONDITIONS

Membership rules should be transparent and non-discriminatory. In particular, they should not place any member at a competitive disadvantage.

TECHNICAL STANDARDS

Voluntary technical industry standards set up by PETCORE EUROPE members should be objective and accessible to everyone.

PROHIBITED DISCUSSION TOPICS

Never discuss with undertakings in fact or appearance in formal or social meetings about:

PRICES

Agreements or coordinated practice on individual prices, costs, discounts, allowances, price changes. Exchange information on price decisions, profit margins, terms of sales.

PRODUCTION

Information on production capacity, suppliers or distribution. Fixing of production quotas.

MARKET SHARES

Agreements on market shares, boycott suppliers, divide up the market, allocation of sales territories, distribution or marketing.

CUSTOMERS

Blacklist customers, agree to classify or select potential customers.

INVESTMENTS AND TRENDS:

Do not share credit terms, future plans concerning technology. Do not apply dissimilar conditions to equivalent transactions with other trading parties.

Please refer to the full PETCORE EUROPE competition law policy as distributed and available from the secretariat



You can send your questions through SLIDO using the QR code below or join at slido.com with #4286604





AGENDA



**3:00 – 3:05 PM CET Welcome & Introduction by
Raphael Jaumotte (PETCORE EUROPE)**

**3:05 – 3:25 PM CET General status on the
developments of standard & connections with
PPWR by Vincent Colard (CITEO)**

**3:25 – 3:35 PM CET Focus on PET bottles, specific
part of the standard by Raphael Jaumotte
(PETCORE EUROPE)**

**3:35-3:45 PM CET PET Thermoforms, specific part
of the standard by Sergio Collado (Sulayr)**

**3:45 – 3:55 PM CET Q&A via SLIDO moderated by
Raphael Jaumotte (PETCORE EUROPE)**

3:55 – 4:00 PM CET Wrapping-up & Conclusion

OBJECTIVE



Webinar's objective: to present to the **PETCORE EUROPE** Members the latest status on the ongoing work on **standardization for Design for recycling and recyclability assessment protocols for PET bottles and thermoforms**.

PETCORE EUROPE and its members are deeply involved in the standardization work that will lead to **recyclability grading part of PPWR**. This webinar brings the opportunity to understand better what impacts are to be expected.

3:00 – 3:05 PM CET Welcome & Introduction by Raphael Jaumotte (PETCORE EUROPE)



Raphaël Jaumotte

Petcore Europe

He has been for more than 20 years in the business of PET recycling. Held various positions related to quality, environment, operations, purchasing and projects. His last position prior to joining Petcore Europe, was Director of Projects and Quality for the Plastipak Beaune (FR) operation producing more than 45.000T/y of food grade rPET for Plastipak's preform injection operations with the main focus on continuously improving quality and output. He was formerly a board member and a treasurer of Petcore Europe and a board member of the French Elipso association. Raphael is based near Nuits-Saint-Georges in France.

3:05 – 3:25 PM CET General status on the
developments of standard & connections with PPWR
by Vincent Colard (CITEO)



Vincent Colard

Citeo

After two master's degrees on law and economics, with a focus on environmental projects & political decisions, Vincent Colard started his professional life with a first experience at Veolia, on industrial waste treatment plants. Then he joined Elipso as environment manager. He started his journey with Citeo in 2016, now he conducts R&D projects to deploy with his team the ecodesign Citeo strategy for household packaging. He is part of Cotrep board, in charge of plastic packaging recyclability assessment and he is involved into standardization to harmonize recyclability guidelines in Europe.

Too many recyclability guidelines !



RecyClass

National pact
guidelines



RECOUP



COTREP



CYCLOS-HTP



Retailer guidelines



National regulations start to impact



JOURNAL OFFICIEL DE LA RÉPUBLIQUE FRANÇAISE

Texte 4 sur 147

Décrets, arrêtés, circulaires

TEXTES GÉNÉRAUX

MINISTÈRE DE LA TRANSITION ÉCOLOGIQUE

Décret n° 2022-748 du 29 avril 2022 relatif à l'information du consommateur sur les qualités et caractéristiques environnementales des produits générateurs de déchets
NOR : TRE22020154D

Publics concernés : producteurs, importateurs, distributeurs ou autres metteurs sur le marché de produits générateurs de déchets destinés aux consommateurs, y compris ceux utilisant un site internet, une plateforme ou toute autre voie de distribution en ligne dans le cadre de leur activité commerciale en France, et les consommateurs de ces produits.

Objet : mise en œuvre de l'obligation prévue par l'article L. 541-9-1 du code de l'environnement relative à l'information du consommateur sur les qualités et caractéristiques environnementales des produits générateurs de déchets.

Entrée en vigueur : l'article R. 541-223 entre en vigueur au lendemain de la publication du présent décret. Les produits ou emballages auxquels il s'applique bénéficient d'un délai d'écoulement des stocks jusqu'au 1^{er} janvier 2023, dès lors qu'ils ont été fabriqués ou importés avant la date de publication du présent décret. Les articles R. 541-220 à R. 541-222 entrent en vigueur à compter du 1^{er} janvier 2023, de façon progressive, par palier d'entreprise.

Notice : le décret définit les modalités d'application de l'article L. 541-9-1 du code de l'environnement, qui prévoit la bonne information des consommateurs, par les producteurs et importateurs, sur les qualités et caractéristiques environnementales des produits générateurs de déchets – notions définies dans le présent texte. Sont soumis à l'obligation d'information ainsi prévue les producteurs et importateurs qui déclarent un chiffre d'affaires annuel supérieur à 10 millions d'euros pour les produits visés à l'article R. 541-221 qui ils mettent sur le marché national et qui sont responsables annuellement de la mise sur le marché de plus de 10 000 unités de ces produits. Cette information est réalisée par la mise à disposition des données par voie électronique et, le cas échéant, selon des modalités définies par arrêté, par affichage, étiquetage ou tout autre dispositif lisible et compréhensible, au moment de l'acte d'achat. Ces qualités et caractéristiques environnementales sont notamment, selon les catégories de produits concernées, l'incorporation de matières recyclées, l'emploi de ressources renouvelables, la durabilité, la responsabilité, la réparabilité, les possibilités de réemploi, la recyclabilité, la présence de substances dangereuses, de métaux précieux ou de terres rares, la traçabilité et la présence de microfibres plastiques. Le format de mise à disposition des données relatives à ces qualités et caractéristiques environnementales auprès des consommateurs doit être aisément réalisable et exploitable par un système de traitement automatisé sous une forme agréée.

Références : le décret ainsi que le code de l'environnement qu'il modifie peuvent être consultés sur le site Légifrance <https://www.legifrance.gouv.fr/>.

Le Premier ministre,

Sur le rapport de la ministre de la transition écologique et du ministre de l'économie, des finances et de la relance,

Vu le règlement (CE) n° 1907/2006 du Parlement européen et du Conseil du 18 décembre 2006 concernant l'enregistrement, l'évaluation et l'autorisation des substances chimiques, ainsi que les restrictions applicables à ces substances (REACH) instituant une agence européenne des produits chimiques, modifiant la directive 1999/45/CE et abrogeant le règlement (CEE) n° 79/370 du Conseil et le règlement (CE) n° 1488/94 de la Commission ainsi que la directive 76/769/CEE du Conseil et les directives 91/155/CEE, 93/67/CEE, 93/105/CE et 2000/21/CE de la Commission ;

Vu le règlement (CE) n° 1272/2008 du Parlement européen et du Conseil du 16 décembre 2008 relatif à la classification, à l'étiquetage et à l'emballage des substances et des mélanges, modifiant et abrogeant les directives 67/548/CEE et 1999/45/CE et modifiant le règlement (CE) n° 1907/2006 ;

Vu la directive 94/62/CE du Parlement européen et du Conseil du 20 décembre 1994 relative aux emballages et aux déchets d'emballages ;

Vu la directive (UE) 2015/1535 du Parlement européen et du Conseil du 9 septembre 2015 prévoyant une procédure d'information dans le domaine des réglementations techniques et des règles relatives aux services de la société de l'information ;



Please note: This English version is a convenience translation – the German version shall prevail

Minimum standard for determining the recyclability of packaging subject to system participation pursuant to section 21 (3) VerpackG

in consultation with the German Environment Agency (Umweltbundesamt)

Osnabrück, 31 August 2021



Recueil des textes légaux et réglementaires de l'Agence suédoise de protection de l'environnement

ISSN 1403-8234

Règlement de l'Agence suédoise de protection de l'environnement sur la détermination des taxes sur les emballages en tenant compte de la recyclabilité;

NFS 2022:
Publié
le

adopté le XX janvier 2023.

L'Agence suédoise de protection de l'environnement établit¹ ci-après, en vertu du chapitre 5, section 30 de l'ordonnance (2022:1274) sur la responsabilité du producteur pour l'emballage.

Champ d'application

Artikel 1 Ce règlement contient des dispositions sur la façon dont une organisation compétente en matière de responsabilité des producteurs (PRO) doit tenir compte de la recyclabilité d'un emballage lors du calcul de la taxe sur l'emballage qu'un producteur paie à une organisation de responsabilité

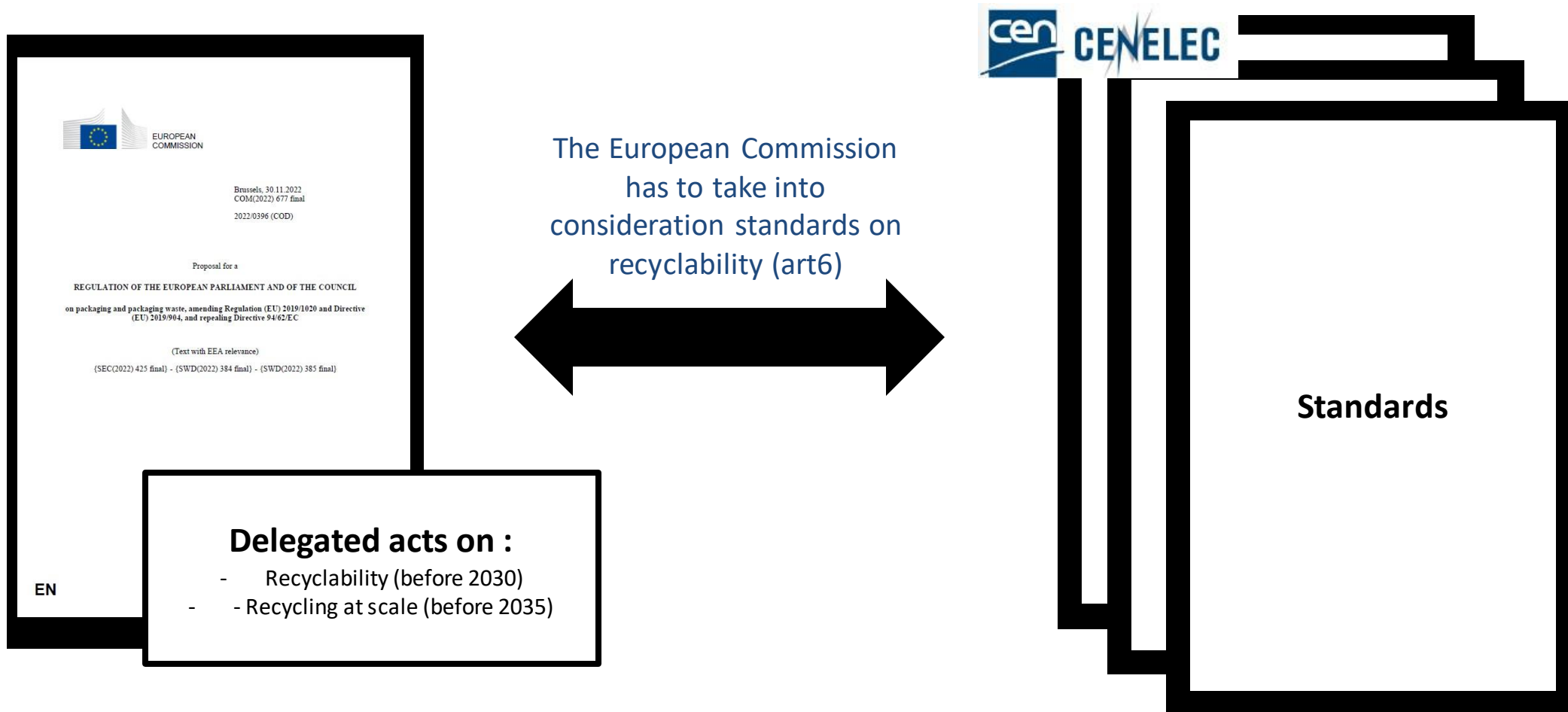
French definition by law for communication purpose, link with EPR methodology, Cotrep for plastic packaging

German approach for design and bonus/malus system, based on single methodology and experts

Swedish law for packaging design, which introduce the 5% rule barrier and foreign material



Harmonization is needed



Moving from « voluntary » design criteria to enforced one to reach 100% of recyclable packaging

How standards will be used after 2030 ?

PPWR article 6 uses “recyclability” to allow/ban packaging from the market in 2030 and modulate ERP fees

PPWR article 11 on communication doesn’t mention recyclability, so this aspect won’t be harmonized at European level through PPWR (some countries have national law on that point).

Packaging ban

2030 : a packaging will be banned from the market if it reaches a grade E (or D for the Council) = recyclability score < 70%

Our standards define the recyclability score methodology and say a red constituent conducts to a recyclability score of 0%

Ecomodulation

EPR fees are approximately 10% of the price of an empty packaging in 2022

2030 : apply a modulation of the fee based on the grade

Grades are partially based on recyclability score developed by WG10

TC261 SC4 WG10 ambition

Deliver consensual standards which could be used by PPWR

A unique opportunity for plastic packaging



From CPA to standards



- CPA started to build a vision of the future standards on plastic packaging recyclability and protocols
- Standardization process will help to find consensus on methodology and criteria. New actors, new vision, consensus rule
- EN standards don't refer to existing websites so we have to write our own methodology and criteria in our publications.

Planning

	06/23	07/23	08/23	09/23	10/23	11/23	12/23	01/24	02/24	03/24	04/24	05/24	06/24	07/24	08/24	09/24	10/24	11/24	12/24	01/25	02/25		08/25
Draft consultation (WG10 level)	01/06		31/08																				
Subgroups deal with comments				01/09	09/10																		
Draft consultation (SC4 level)					10/10		04/12																
Subgroups and WG10 deal with comments							05/12			03/03													
CEN admin time, WG10 isn't allowed to work on documents										04/03			03/06										
CEN inquiry (TC261 + TC in liaison)													03/06		26/08								
Subgroups and WG10 deal with comments															27/08						24/02		
NSB inquiry on wording, WG10 isn't concerned																					24/02		
NSB final votes																						05/05 30/06	
Admin and publication																					24/02		26/08

- PPWR planning: end of 2024, enter into force mid of 2026
- Delegated act on recyclability: 2028

WG10 organization

PET bottles
(2 standards)

PET rigid
(2 standards)

PE & PP rigid
(2 standards)

PE & PP
flexible
(2 standards)

PS & XPS rigid
(2 standards)

EPS
(2 standards)

SULAYR

PCEP

CEFLEX

SYNDIFRAIS

BEWI

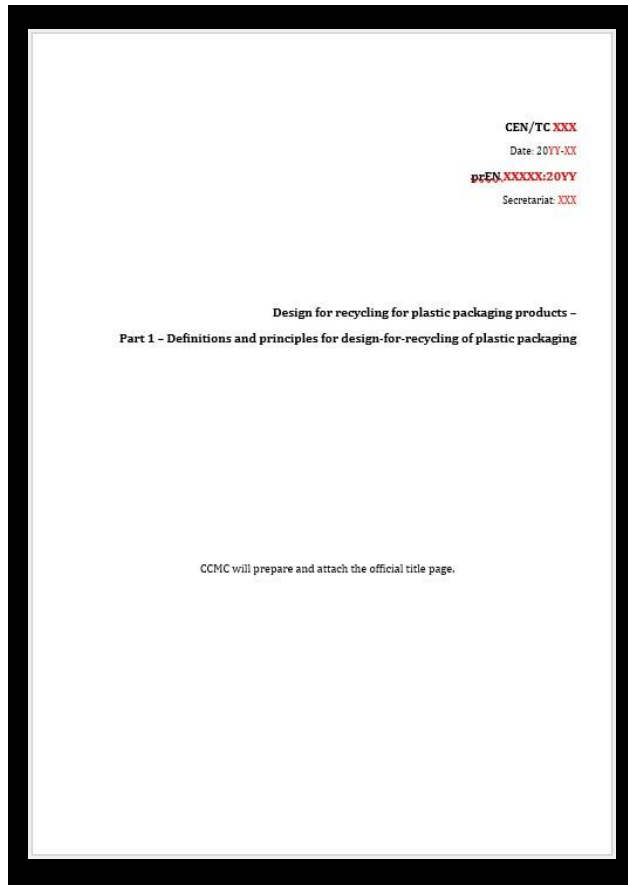
Methodology
(2 standards)

Sorting
(1 standard)

CITEO

On-going

How 14 standards work together?



Part 1

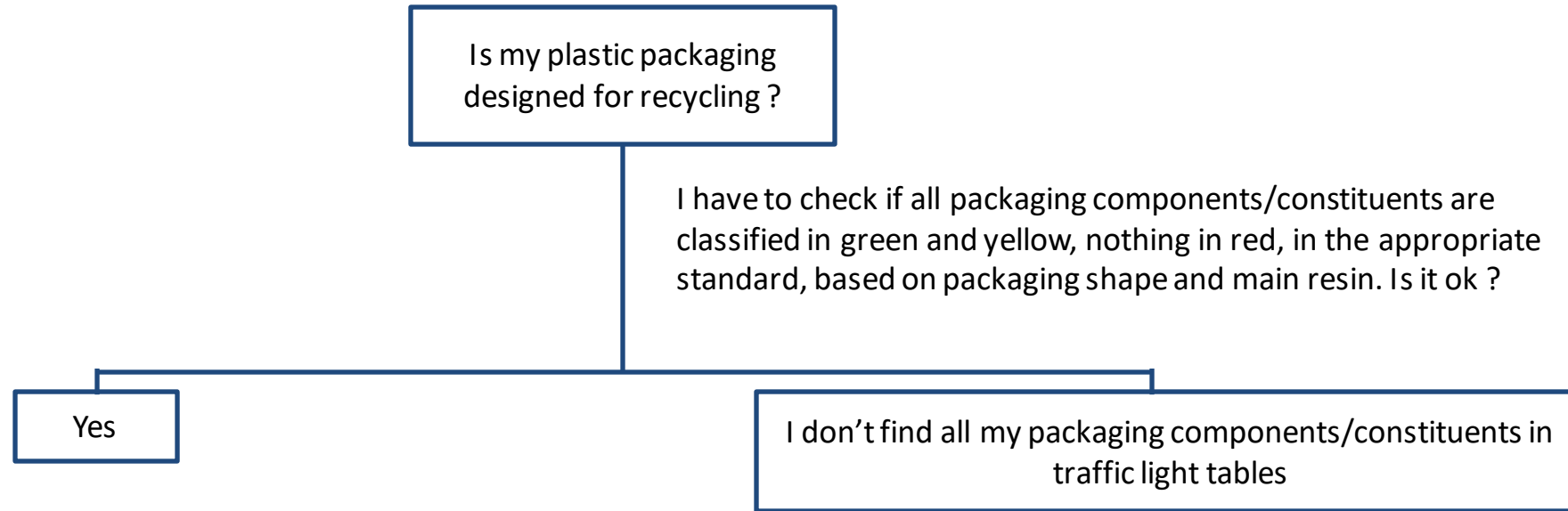


Parts 2-15

Vigilant to align all parts with the part 1 on:

- Definitions
- Wording
- A packaging which is recycled day by day without high negative impact should be classified in green and yellow column rule

Concrete use by industry



Ok so I have my conclusion, no test

If I want to claim “recyclable packaging”, I have to check at national level if a recycling stream exists (at minima before 2035 and at scale rule).

17

A single company or a group of companies will conduct test (sorting, recycling, sorting+recycling) following protocols and methodology developed by WG10. A positive result could be used as a proof of conformity before the next standard update. The results could be shared to WG10 to improve traffic light tables.

Methodo rules - examples

What's plastic ? >50% rule preferred to the SUP/PPWR definition

Traffic light table approach

- Set of criteria classified in green, yellow and red columns, based on sorting and recycling behavior
- Red = 0% recyclability
- Yellow = a negative impact on the final recyclability score

On which perimeter packaging recyclability is evaluated ?

Traffic light table :



+



Final graduation :



State of the art definition

- Standards and PPWR based on “state of the art”, not TRL9, not best in class
- Experts have to define what's the sorting process, the recycling process and the main outlet state of the art

Link between standards and graduation

- PPWR graduation will be defined in a delegated act In 2028 and enters into force in 2030
- On-going discussions with industry on how reducing the uncertainty and proposing a graduation system as soon as possible

3:25 – 3:35 PM CET Focus on PET bottles, specific part of the standard by Raphael Jaumotte (PETCORE EUROPE)



Raphaël Jaumotte

Petcore Europe

He has been for more than 20 years in the business of PET recycling. Held various positions related to quality, environment, operations, purchasing and projects. His last position prior to joining Petcore Europe, was Director of Projects and Quality for the Plastipak Beaune (FR) operation producing more than 45.000T/y of food grade rPET for Plastipak's preform injection operations with the main focus on continuously improving quality and output. He was formerly a board member and a treasurer of Petcore Europe and a board member of the French Elipso association. Raphael is based near Nuits-Saint-Georges in France.

PET Bottles specific part



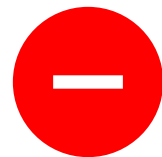
Dealing with 2 parts

- Part 4: design for recycling
- Part 10: recyclability evaluation process

48 participants, from different companies, countries, cultures, knowledge and experience.



All views are represented, consensus needed



Time to understand each other

PET Bottles specific part



A lot of inputs to aggregate (more than 350 comments)

14 meetings organized from June 2023 to February 2024

The DfR's are covering all bottles including reusable bottles are split in 4 color specific tables:

- PET clear and light blue
- PET Transparent colored
- PET Opaque white
- PET Opaque other colors

+1 table that is generic to all colors

Application is bottle to bottle and is not only food contact bottles

Recycling process is mechanical only.

PET Bottles specific part

The backbone for the DfR and the Recyclability evaluation process is **EPBP's**

- 3 columns
 - Testing procedures and protocol to assess innovations
 - The main challenge in the DfR for bottles is to agree on the label/sleeve part.
 - The most complex
 - Patch-work like
 - Multiple materials,
 - Multiple approach, (floatable, non-floatable, adhesives/no adhesives)
- Support needed from the labels industry to avoid a non-consensual situation where everything will go into innovation assessment. Or to avoid C-classification of most of the bottles on the market.

3:35-3:45 PM CET PET Thermoforms, specific part of the standard by Sergio Collado (Sulayr)



Sergio Collado

Sulayr

A Chemical Engineer from the Superior School of Engineering of Seville.

The beginning of his career was linked to polymers in a SBR production facility, after this he participated in the development of the Single Operation Procedures and One Point Lessons instructions, and TPM for packaging lines at KRONES (2008-2012). Between 2012 and 2015 he was dedicated to the agri-food industry in the development of selective liquid-liquid and solid-liquid extraction processes for the recovery of olive industry residues rich in phenols and terpenes. After a brief stint in the construction sector where he led an EU-funded project for the development of resilient bitumen-polyurea pavements to increase urban safety, he joined the Sulayr GS team in 2016-2017 as head of R&D, and since 2018 as technical director of the Sulayr Group.

He has extensive experience in the development of mechanical and chemical processes for waste recovery and, especially in biphasic or triphasic interactions, such as liquid-liquid extraction or froth-flotation processes.

He has participated in a patent (as an inventor) to produce food spherifications and in the last years has developed a process for post-consumer tray recycling.

DfR for PET Other Rigid Packaging

Current state of play

- Facts:
 1. PET trays amount up to 25% of volumen of PET packaging European market
 2. Collection rate EU PET bottle 75%, EU PET tray 25%
 3. Several UE countries consider PET Trays as non-recyclable
 4. Many on-going projects for tray recycling but just 2 succesfull.
 5. Installed recycling capacity (for PET Trays): 150.000 tn/y aprox.
 6. Circularity in trays currently achieved, but low volumes.

Who is involved?

•Production:

- Manufacturers must adapt tray designs to meet recyclability guidelines.
- Investment in new technologies and materials.

•Supply Chain:

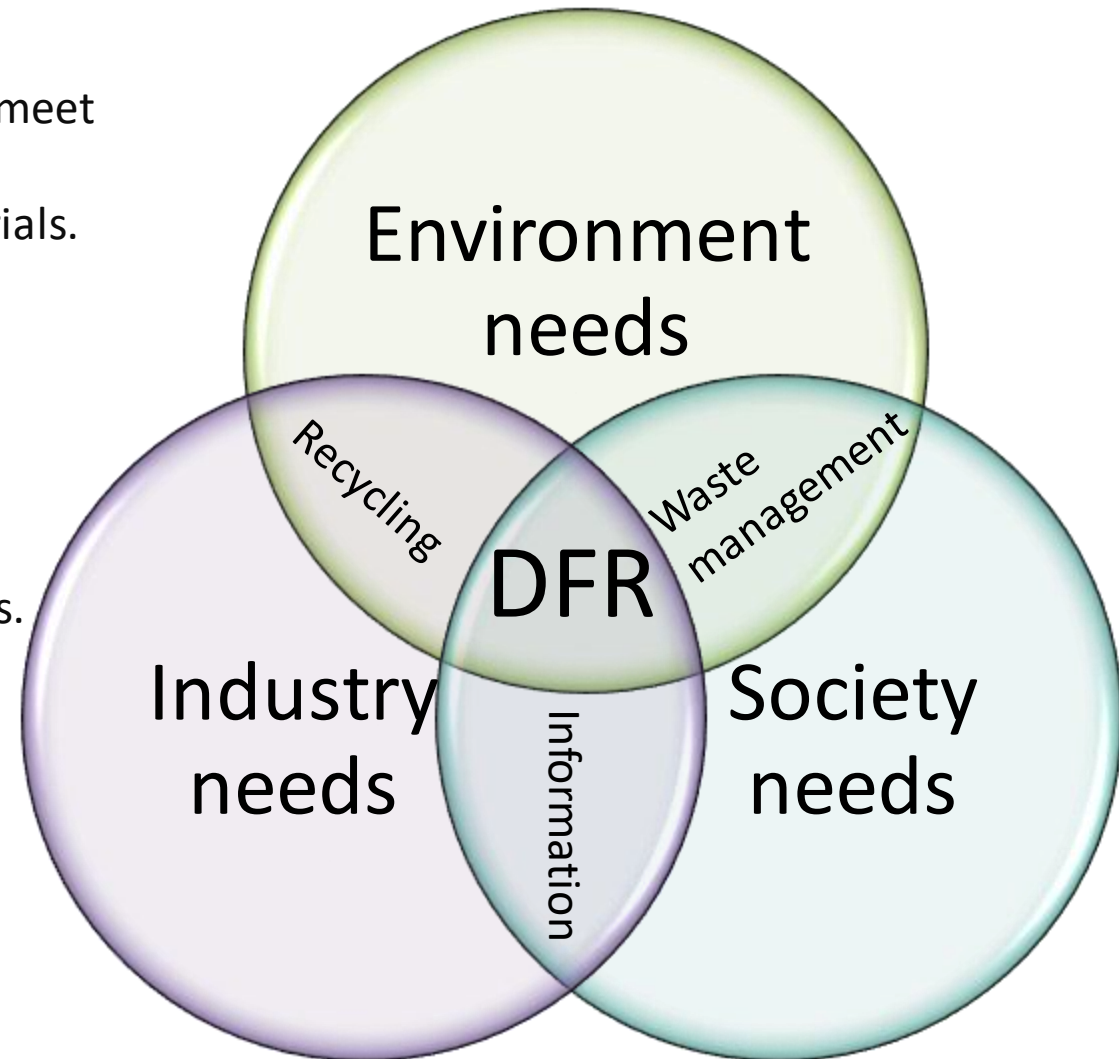
- Increased compliance costs due to design changes or use of recycled materials.

•Retail:

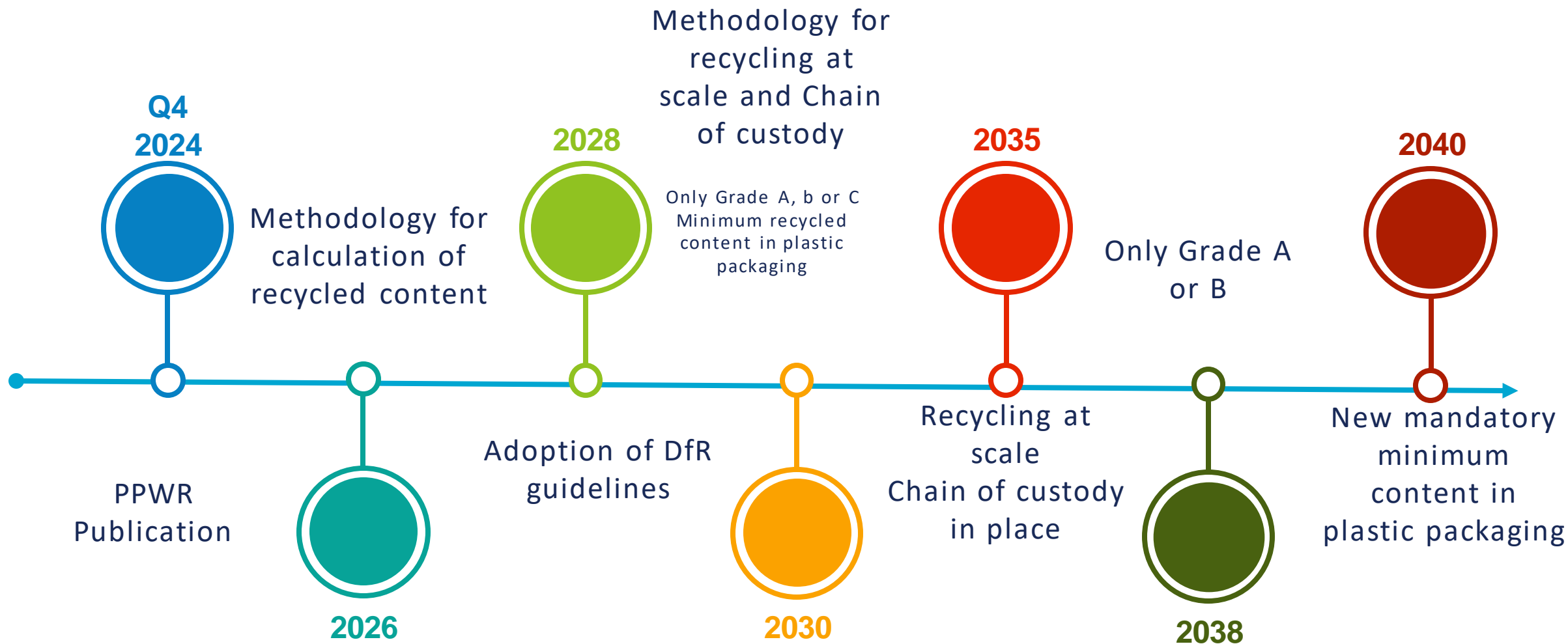
- Adoption of new packaging formats.
- Educating consumers on recycling practices.

•EPR/Consumers:

- Enhanced collection & sorting.
- Increased awareness of sustainable packaging.



PPWR TIMELINE



DfR for PET ORP

Main drivers

- Targeted polymer: PET
- Technology: Mechanical
- Application of recyclates: Tray to tray
- Quality:
 - Separation of materials
 - Use of washable adhesives for sealing/labels and liners of multilayer
 - Other components of the packaging made of floatable polymers (PO)
 - Avoid Soaker pads/paper labels/PVC..
- Quantity:
 - Recycling of two streams-> only solution to meet %threshold

DfR for PET ORP

Conclusions

- Clock is ticking: WE NEED TO ACHIEVE RECYCLING AT SCALE!
- Meeting DfR will facilitate:
 - Collection and sorting
 - Recycling (UPCYCLING!!)
- PET Tray recycling is a reality
- Communication and collaboration is needed

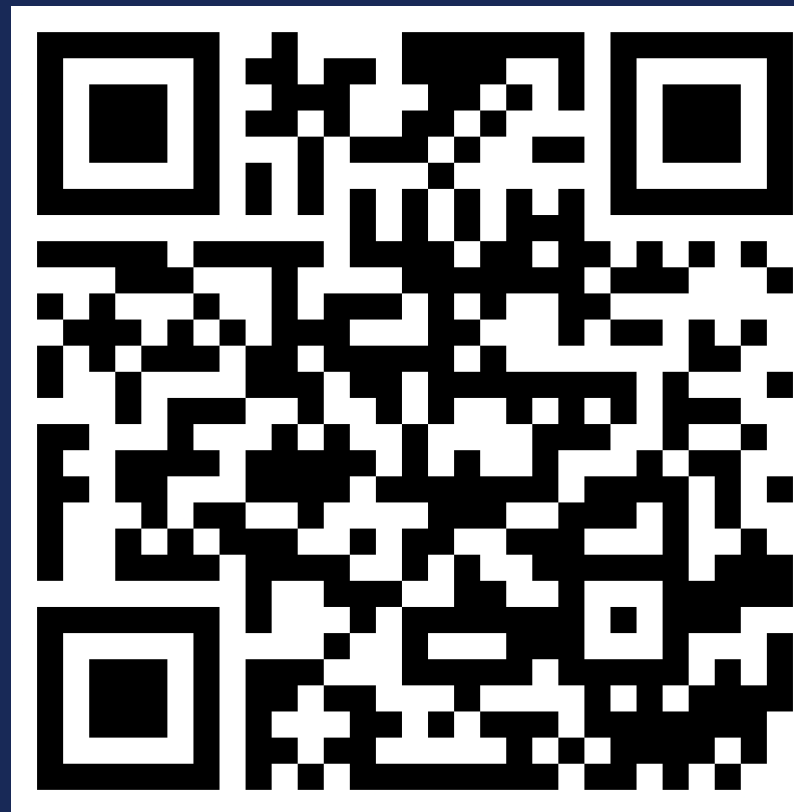
3:45 – 3:55 PM CET Q&A via SLIDO moderated by
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You can also join by using this code: join at slido.com with #4286604



3:55 – 4:00 PM CET Wrapping-up & Conclusion



**Presentations &
recording will be
shared on the 7th of
June 2024**



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Annual Conference 2024

www.petcoreeuropeannualconference.eu



Communications Campaign

www.recycletheone.com



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