



Future of Plastics Conference

Petcore Europe

Argiris Dabanlis
Technical Manager
March 6th 2024

www.petcore-europe.org

Agenda

- 1. About Petcore Europe**
- 2. The PET market across Europe**
- 3. Our Working Groups**
- 4. Useful information - sites**



About Petcore Europe

www.petcore-europe.org



Petcore Europe



Petcore Europe the voice of the PET Value Chain in Europe

Petcore Europe is a Brussels based, not for profit association, representing the entire PET value chain since 1993.

Petcore Europe is vertical value chain association.

Petcore Europe's vision is to achieve widespread recognition of the performance of PET as a circular material of choice for packaging and to make sure that PET is collected, sorted and recycled.

Petcore Europe is a UNEP (United Nations Environment Program) accredited association

We meet our mandate, supporting Industry, Brands, Market and Consumers through the work that is done within our Working Groups (WG) and the two PET innovation evaluation platforms. European PET Bottle Platform (EPBP - <https://www.epbp.org/>) and Tray Circularity Evaluation Platform (TCEP - <https://www.tcep-europe.org/>).

www.petcore-europe.org

Petcore Europe Mission



- Represent the PET value chain within the EU Institutions and all other stakeholders.



- Ensure that PET is positioned as an outstanding packaging material and recognized as circular.



- Support and validate innovative solutions to improve circularity.



- Work with all interested parties to ensure a continuous increase of PET post-consumer collection/sorting/recycling.



Petcore Europe: the whole EU PET Value Chain



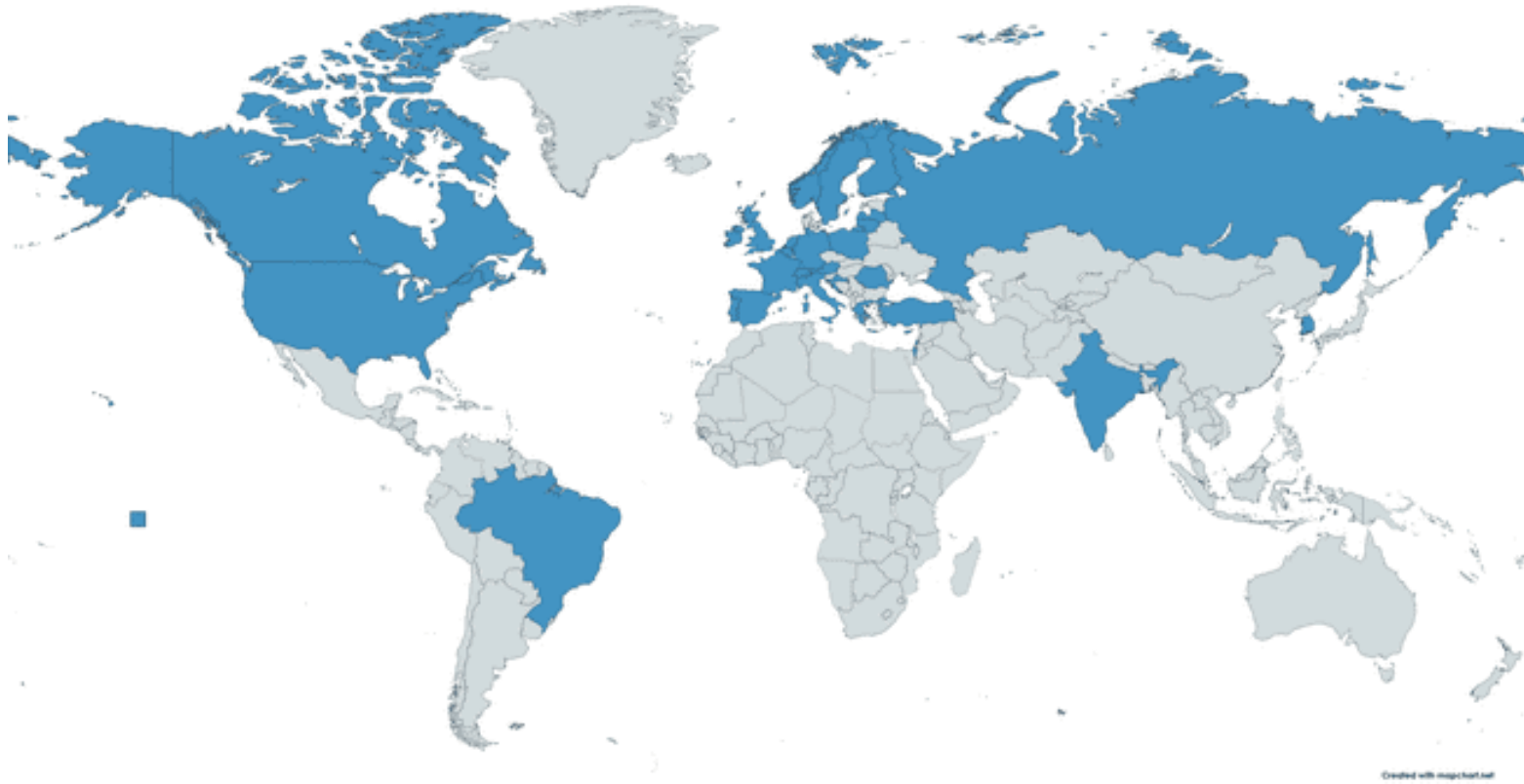
A grid of logos representing various companies in the PET value chain, including:

- Row 1:** All4Labels, ALPLA, ALDI SUD HOLDING, ams, qp, ARISTEA, AVERY DENNISON, AVIENT, Axens, BANDERA, BASF, benzaplastic, Bruno Folcieri, CARBIOS, COEXSPAN, CCL, CITEO
- Row 2:** CIER, ChemPET, Coca-Cola, CORE PLA, GOVINIL, CRODA, CUMAPOL, DANONE, DENTIS Recycling ITALY, DePoly, DIGIMARC, doloop, DOW, Drava International d.o.o., DuPont Teijin Films, EASTMAN
- Row 3:** ECOSENSE FOUNDATION, EKOREC, elit PAK, EMMTEC, ENVAPLASTER, envalia, EREMA, EUSKOPLAST, Eurocast, evertis, EVONIK, EXTRUSION GROUP, FUCINEFILM, faerch plast, Fantastic PLASTIC, Formaspac, Fuji Seal
- Row 4:** Galvanotek, GARBO, gneub, Graham Packaging, grEn, greiner packaging, GUILLIN, Green|Tech, HCA, Henkel, hardijk, HUSKY, ifp Energies nouvelles, INEOS, INDESLA PACKAGING, interzero, ioniqa
- Row 5:** JAUN, KGL, KA SUKANO, kp, Kraft Heinz, KREYENBERG, KRONES, LAITERIE SAINT DENIS, lietpak, LOGOPLASTE, Living Jumbo Industry, MacDermid, MERBA, MIRA, MITSUBISHI POLYESTER FILM, MULTI TRAY
- Row 6:** MGC, MONTELLO, Nestle Waters, NGR, MG, USTAD, omnifol, OPA, Pal, PELLENCST, PET BALTICA, petainer, PENN COLOR, PEPSICO, Plastipak, Perstorp, Pinaform, s.l
- Row 7:** POINTPLASTIC, POLYMETRIX, POLISUR, POLYPLEX, P&G, POSEIDON PLASTICS, PRAGMAGEST, Reifenhäuser, REPI, RETAL, RITTEC, RETURPACK, REMONDIS, REPETCO
- Row 8:** SACMI, SCHWARZ, SEE, sesotec, SIBUR, Sidel, SI Grc, SILVER PLASTICS, SIPA, SOREMA, SODESA, SML, Spadel, SK chemicals, SP GROUP
- Row 9:** SRF, Starlinger recycling technology, SUNTORY, SZP, Advanced Packaging products LTD, SLEEVEE, Taghleef industries, thyssenkrupp, TOMRA, TOYOTA TSUSHO, TPL, TWIN Pack Sp.A., Umincorp, IPM RAFLATAC, UPM
- Row 10:** valorplast

Membership in 2024 (MAP)



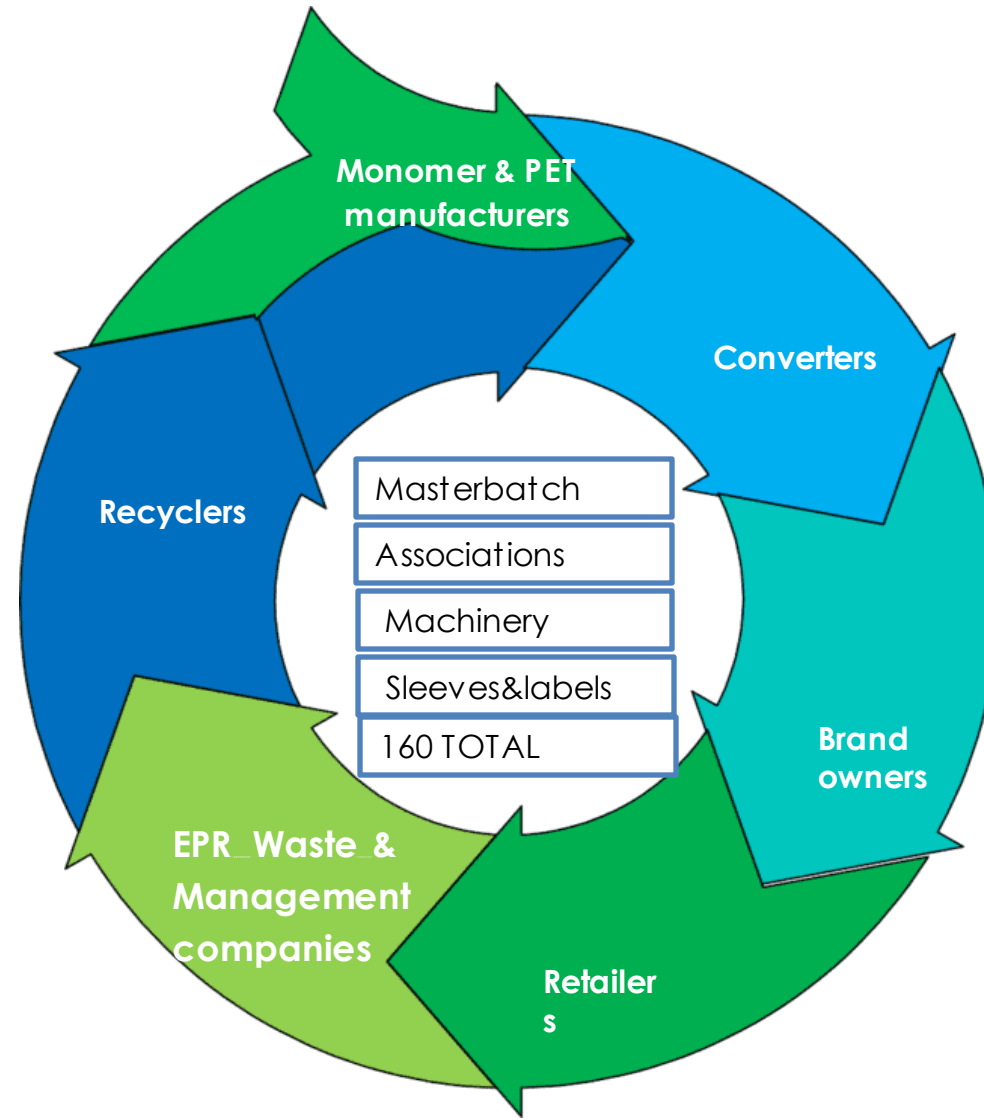
Country	Companies
Austria	6
Belgium	9
Brazil	1
Canada	1
Croatia	1
Cyprus	1
Denmark	1
Finland	1
France	13
Germany	27
Greece	2
India	1
Ireland	1
Israel	1
Italy	25
Latvia	1
Lithuania	2



Country	Companies
Netherlands	14
Poland	2
Portugal	2
Romania	1
Russia	2
South Korea	1
Spain	14
Sweden	2
Switzerland	7
Türkiye Cumhuriyeti	3
UK	11
US	2
Unknown	2

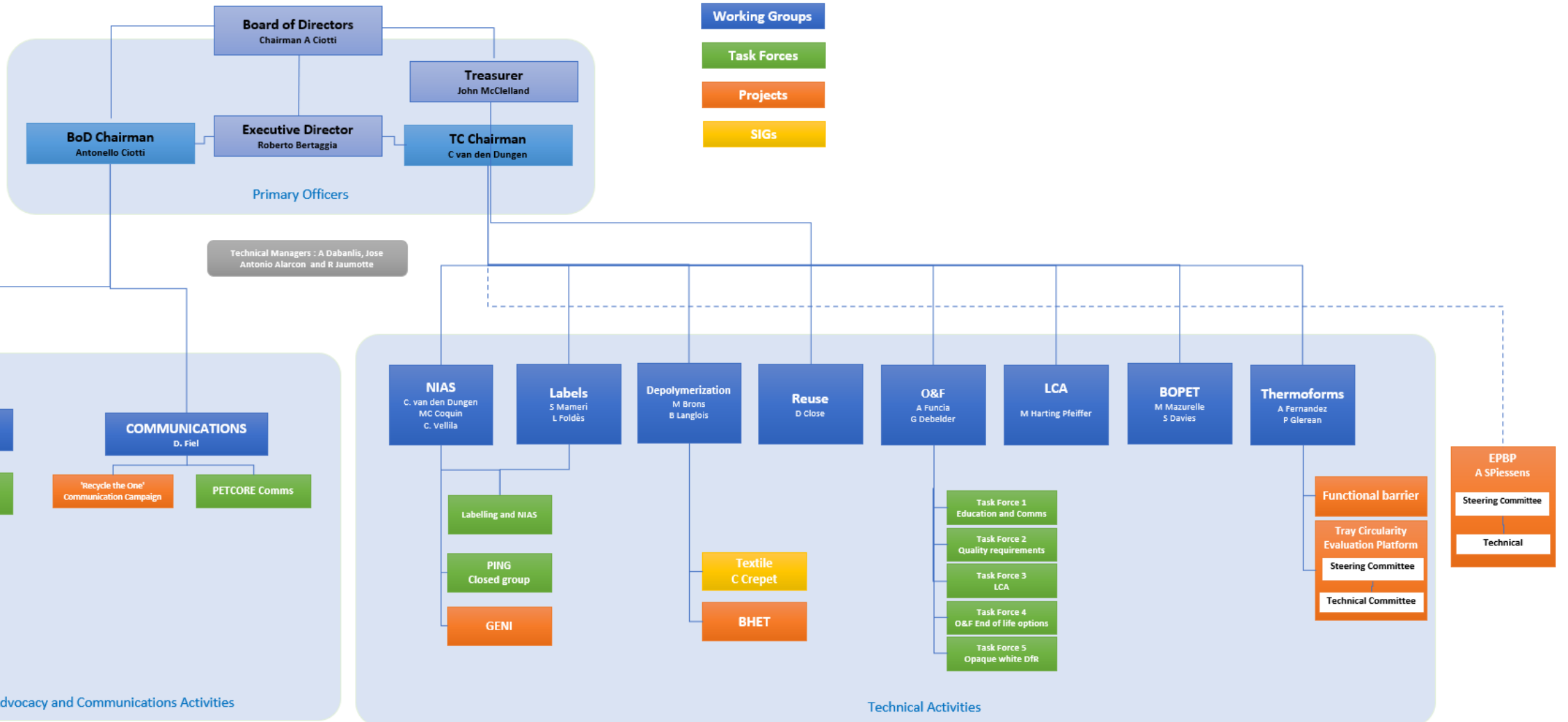


**160
Members
representing
the full value
chain**





Petcore Organisation

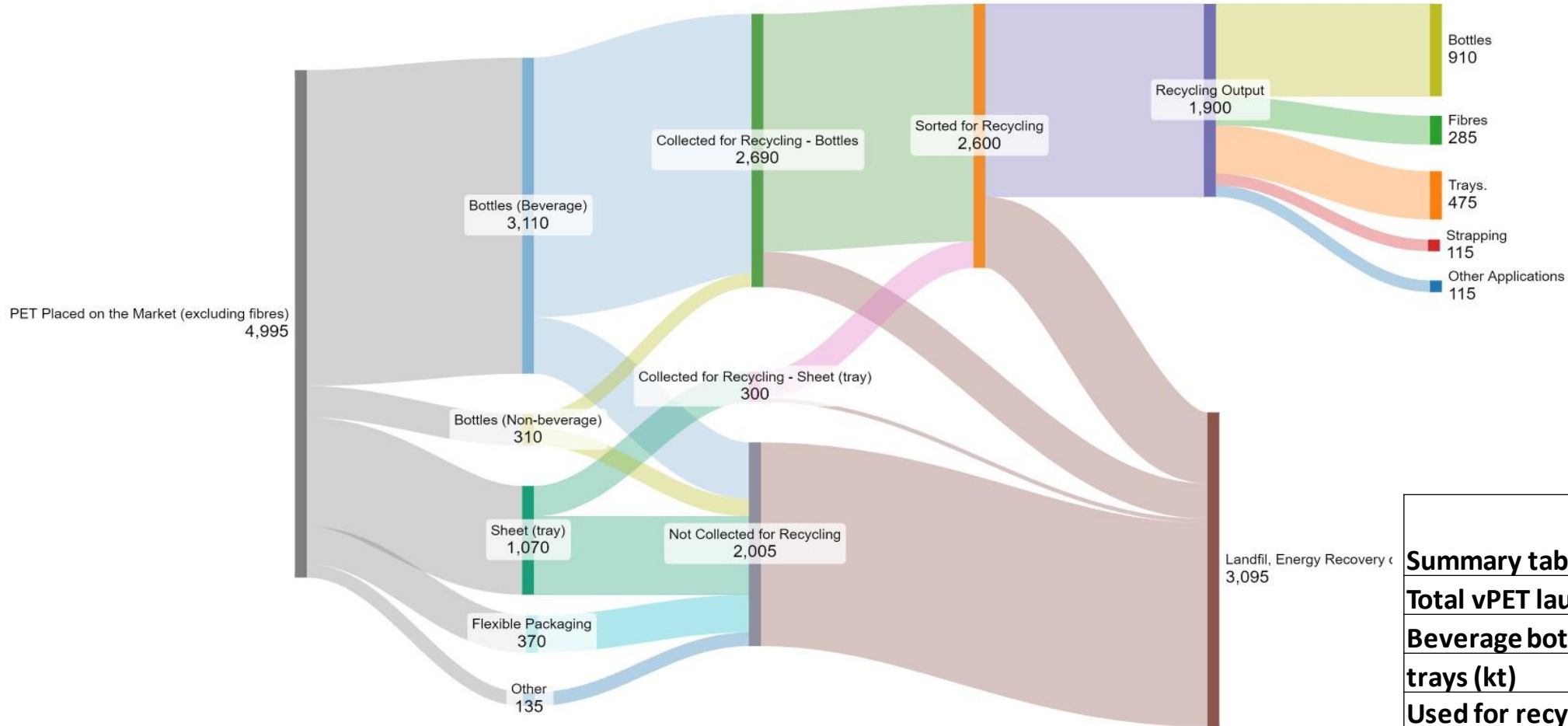


- In 2023 **Petcore Europe** has been granted an accreditation as **Observer** to the United Nations Environment Assembly and its subsidiary organs.
- This accreditation allows Petcore Europe to receive invitations to all public meetings and sessions of the **United Nations Environment Assembly** and actively participate in negotiations or stakeholders' sessions (e.g. UN Global Plastics Treaty).

Bi-annual survey on: PET collection & recycling rates in Europe

- Co-funded by Petcore Europe
- 2022 data are temporary ones as the final ICIS report has not been published yet
- 2020 data based on PET MARKET IN EUROPE STATE OF PLAY. EUNOMIA. PUBLISHED 2022

Recovery and progress achieved in 2022 vs 2020

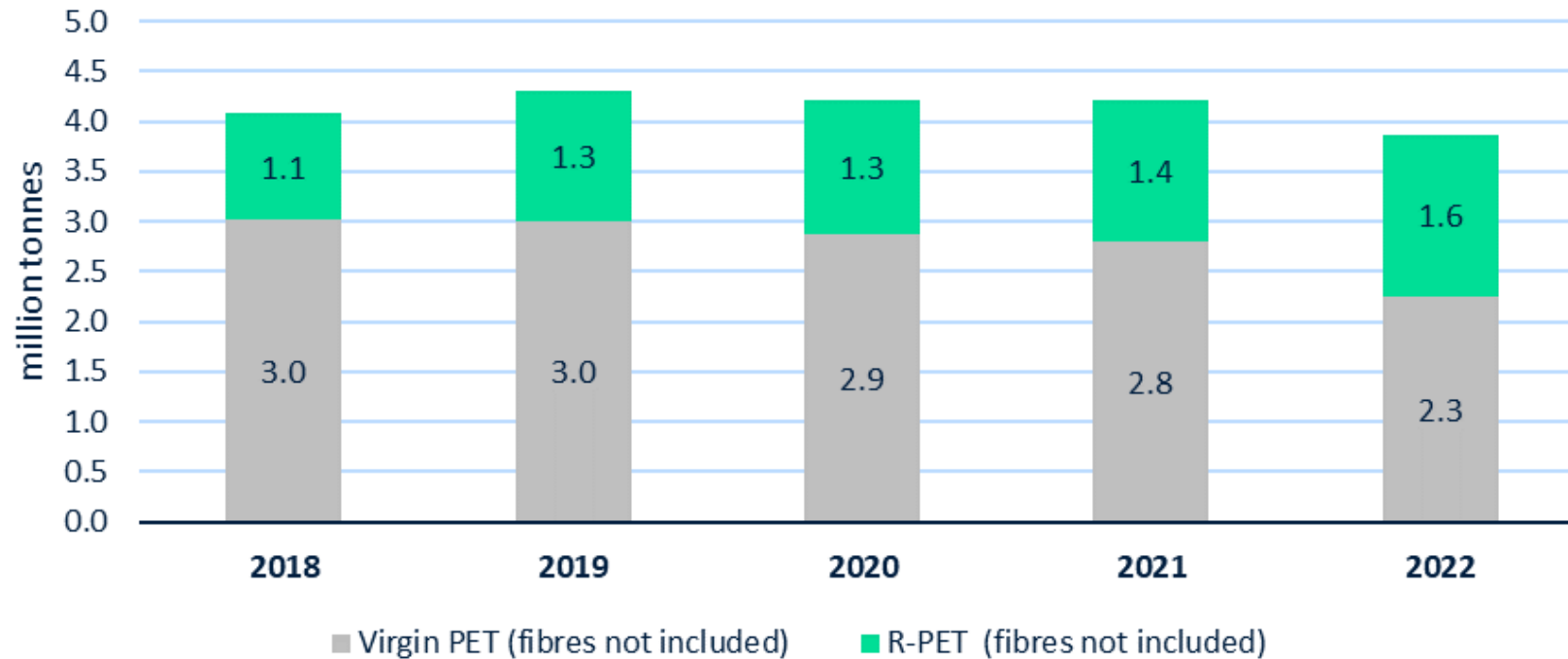


	rPET % content
Summary table for 2022	
Total vPET launched (kt)	
Beverage bottles (kt)	24%
trays (kt)	44%
Used for recycling - downcycling (kt)	38%
Lanfill - Energy recovery	62%



Continued growth in R-PET production

PET and R-PET Production Evolution, 2018-2022



Source: ICIS

Average PET bottle waste collection rate in 2022

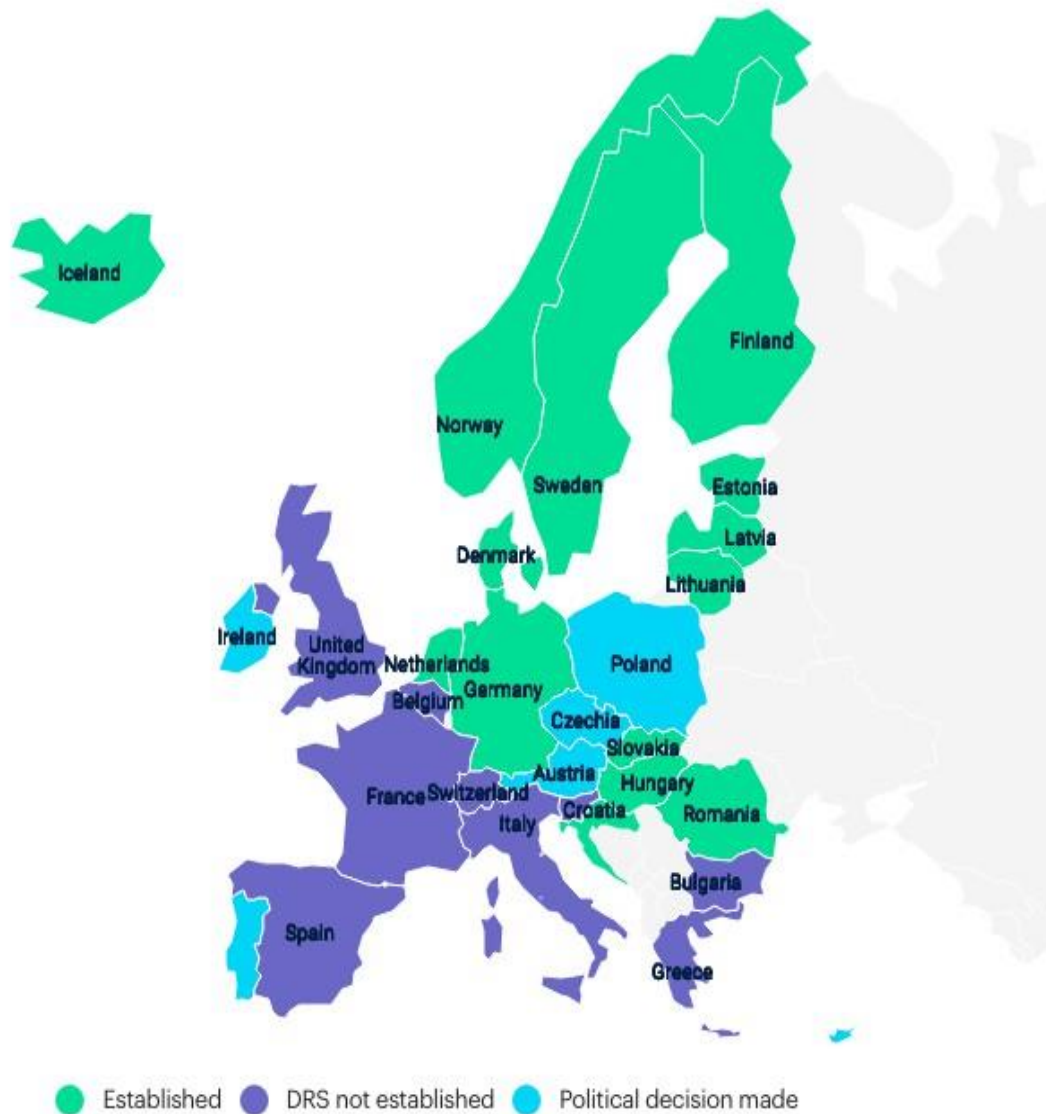


Average European Collection rate 60%

● 65%-77% ● 77%+ ● <65%

Source: ICIS research and analysis, January 2024

DRS coverage in Europe



Collection is key

Source: ICIS research and analysis, January 2024

Petcore Europe Working Groups (WGs)

Petcore Europe Working Groups

- Our WGs are the enablers that support us to deliver our mandate
- The key to our success is the voluntary work of PET value chain experts through their contribution in the working groups and platforms.
- Representatives of Petcore Europe members can participate in their WGs
- The WGs are independent bodies of experts, that work under the lead of the Chairperson of the WG and coordination of Petcore Europe Technical manager
- Petcore Europe assures that the needed subject expertise is represented in the WGs



Petcore Europe Working Groups



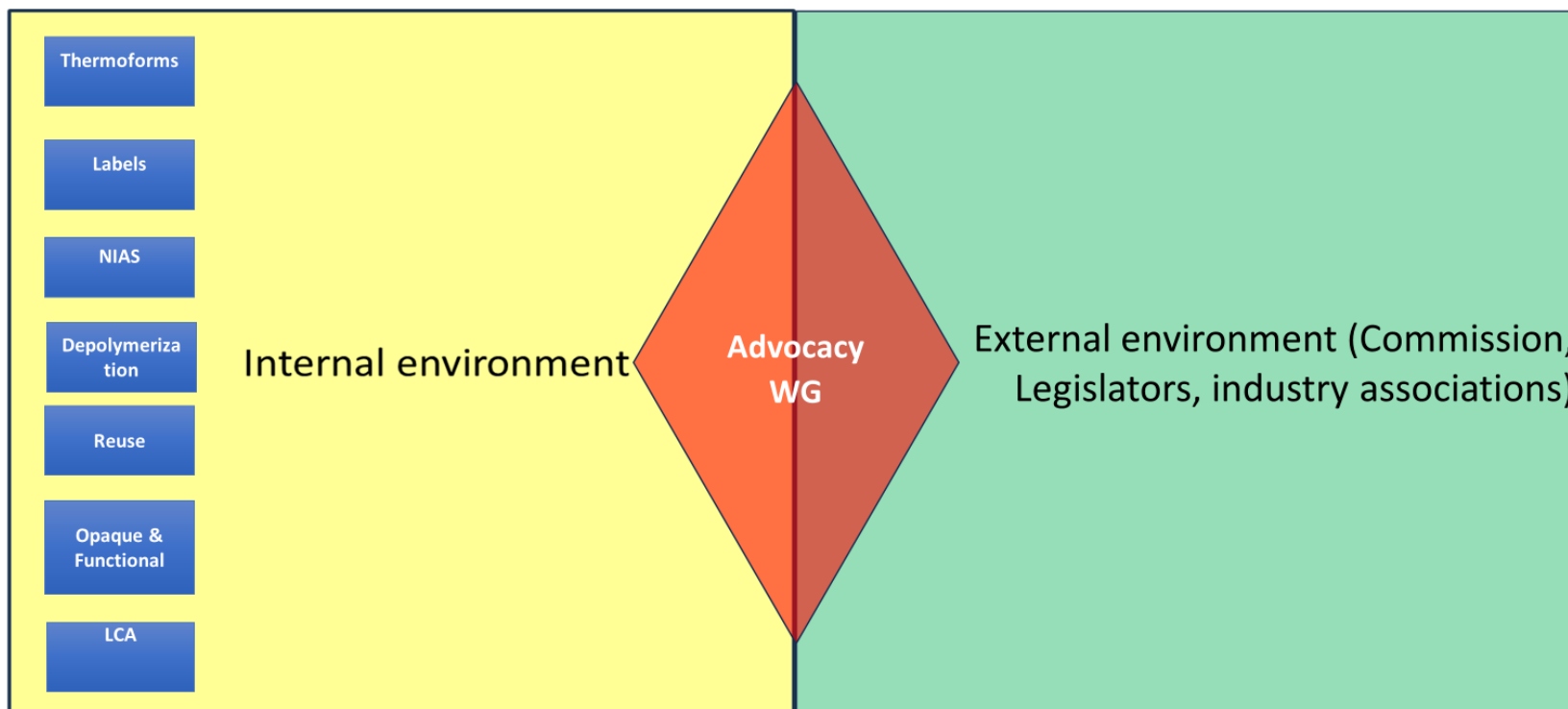
➤ Our WGs

- ✓ Advocacy
- ✓ Communications
- ✓ NIAS
 - LABS platform
- ✓ Labels
- ✓ Depolymerization
 - BHET
- ✓ Opaque and Functional
- ✓ LCA
- ✓ Reuse
- ✓ Thermoforms
- ✓ Innovation evaluation platforms
 - EPBP (European PET Bottle Platform)
 - TCEP (Tray Circularity Evaluation Platform)

Advocacy WG

- ✓ Petcore Europe must communicate and work with decision makers, proposing them solutions towards a science based decision making (rather than opinion based).
- ✓ Moving from purely technical to also political: Petcore Europe has a wealth of technical expertise which will now feed into our political engagement (Commission, Parliament, Council).
- ✓ This new WG will be the interface between the various Petcore's WGs/activities and external stakeholders.

Interaction with internal – external environment



- **Purpose of the platform**

- Deploy NIAS measurement throughout the value chain by:

- Referencing laboratories on a digital platform
- Digitalizing the ordering process to facilitate administrative work and traceability
- Digitalizing the reports in a standardized format that allows further statistical work without reworking the raw data submitted by the laboratories

- **Standardized test methods**

- Referenced laboratories have to comply with guidelines and/or standards that are recognized by the PET value chain
- Referenced laboratories will have to undergo regular proficiency tests

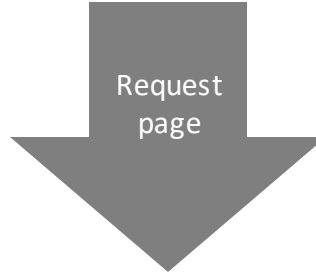
- **Immediate visibility of what labs are capable of running the measurements**

- Referenced laboratories 'pop-up' once the requested test method is identified
- Prices are also listed





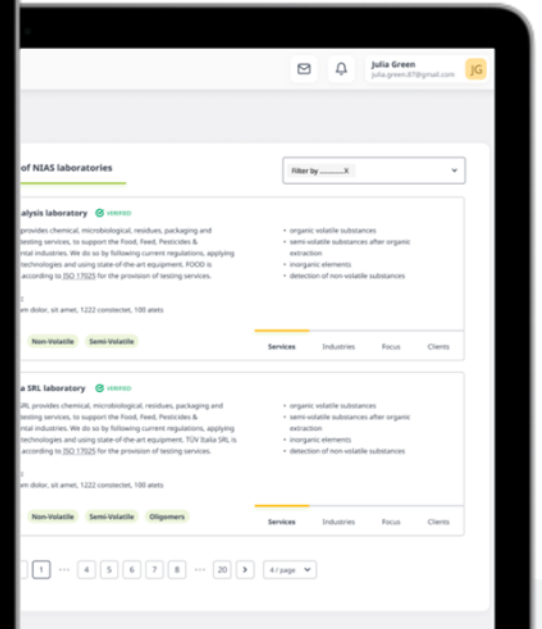
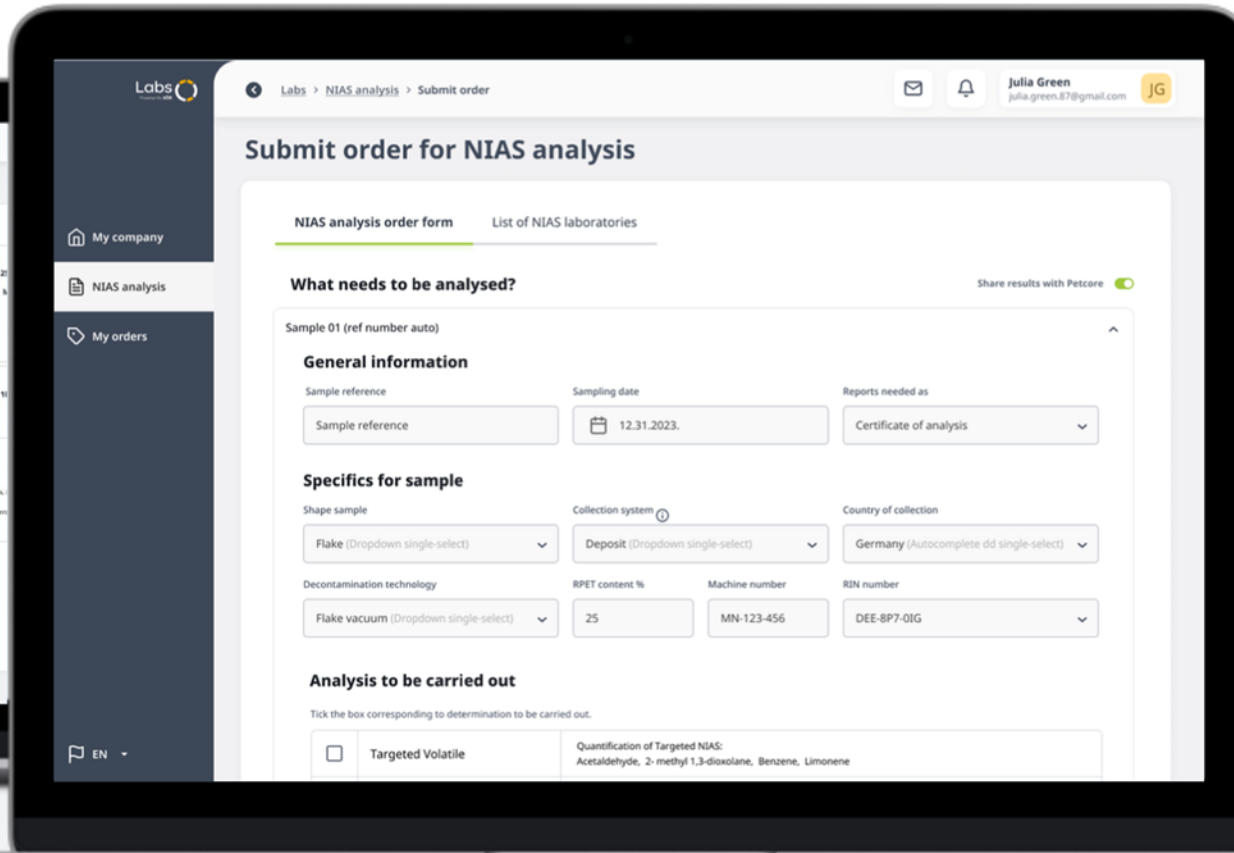
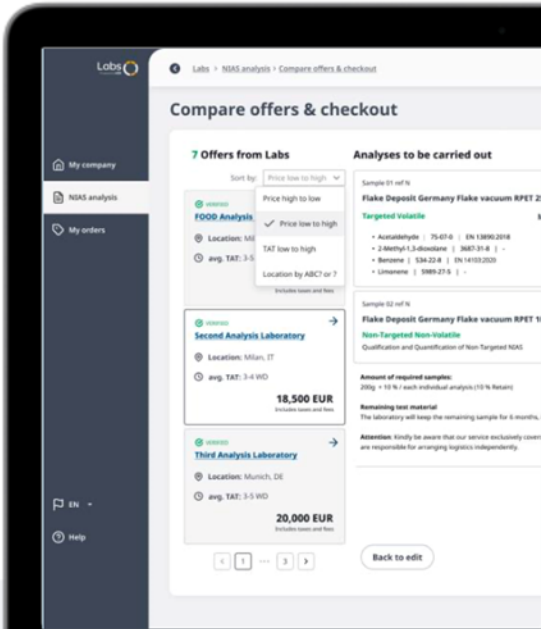
Offers
Page



Request
page



Tracking
and
results
page





Recyclability Evaluation Platforms (EPBP and TCEP)



	YES Full compatibility – materials that passed the testing protocols with no negative impact	CONDITIONAL Limited compatibility – materials that passed the testing protocols if certain conditions are met	NO Low compatibility – materials that failed the testing protocols
Material			
White Opaque			
Size			
Additives			



Drive and promote the circularity in the PET bottle and trays value chain, providing to industry design guidelines and package/technology assessments.



Recyclability Evaluation Platforms (EPBP and TCEP)



The platforms rely on strong processes and protocols for the assessments. As a result, these assessments are scientifically relevant, trustful and independent from a single sector's views. The assessment bodies cover the full value chain experience and expertise

We call upon all companies to bring their new PET bottle - tray solutions to EPBP - TCEP opportunity in order to get an objective third party assessment of their recyclability acquiring a competitive advantage for the marketplace

Petcore Europe Working Groups



➤ Labels WG

To improve DfR for labels and better connect with the recycling industry.

Through the work in the Task Forces to monitor the innovation and the developments in the labels area and advice accordingly the industry in the light of circularity

➤ Opaque and Functional

Most opaque and functional PET bottles are difficult to be recycled. Therefore, there are not effective for collection and sorting across EU. The ultimate task of this WG is to identify procedures, outlets and channels and prepare them to accept and recycle the O&F PET bottles, advising accordingly

➤ Reuse WG

- ✓ Position PET as THE recyclable and reusable packaging material and elaborate that both solutions have excellent environmental credentials
- ✓ Scanning essential regulatory and policy developments on EU and member state level

Petcore Europe Working Groups



➤ Thermoforms WG

The focus of the Thermoforms Working Group is lying on three specific targets:

- ✓ Demonstrate recyclability of PET thermoforms
- ✓ Improve the image of PET thermoforms as best-in-class by promoting a value-chain approach by end users (retailers, brand owners, consumers).
- ✓ Provide sustainable and reliable end of life options for PET thermoforms.

➤ NIAS WG

Deploy NIAS measurement throughout the value chain, understand and reduce sources, risk assessments

➤ Depolymerization WG

Promote depolymerization recycling, support acceptance for food contact, support acceptance in recycled content calculation, position and educate on the factual interconnexion and synergies between depolymerization and mechanical recycling.

➤ BHET task force

PETCORE act's a 'developper' to support the recognition of this technology as suitable. At the moment the depolymerization to BHET is recognized as 'Novel Technology' as per Eu 2022/1616 and the final objective is to have BHET registered under EC 10/2011.



JOIN us in making the voice of the PET Value chain louder!



Useful information

- <https://www.petcore-europe.org/>
- <https://www.petcore-europe.org/annual-conference-petcore-europe-conference.html> .Details for our 2025 annual conference will be announced in soon
- <https://www.recycletheone.com/>
- <https://www.epbp.org/>
- <https://www.tcep-europe.org/>



Petcore Europe

Avenue de Broqueville 12, 1150 Brussels, Belgium

Tel.: +32 (0) 2 315 24 88

Email: management@petcore-europe.org

Website: www.petcore-europe.org

**Dedicated Website - Annual Conference 2024:
www.petcoreeuropeannualconference.eu**

**Communications Campaign Website:
<https://www.recycletheone.com/en>**

Follow us on social media to stay updated:

