



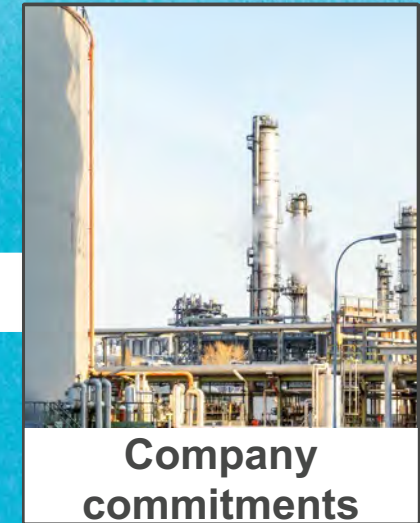
ISCC PLUS for the Circular Economy and Bioeconomy

ISCC System GmbH

Several drivers push the growth of the circular economy and bioeconomy. This poses challenges, but also opens up new potentials



New challenges
– but also the potential for new markets, greener companies, better image and profits



We urgently need **better solutions**



Recycling plastics helps to solve the plastic waste problem



Bio-based plastics reduce the dependency on fossil fuels



Recycled and bio-based plastics support the transition to a circular economy and bioeconomy

ISCC certifies all kinds of raw materials

Bio



Corn



Canola



Sugarcane



Cotton

Bio-circular



Tall Oil



UCO



Forestry residues



Straw

Circular (technical)



Mixed Plastic Waste



End-of-life tires



Waste textiles



CO₂ (post-industrial)

Renewable

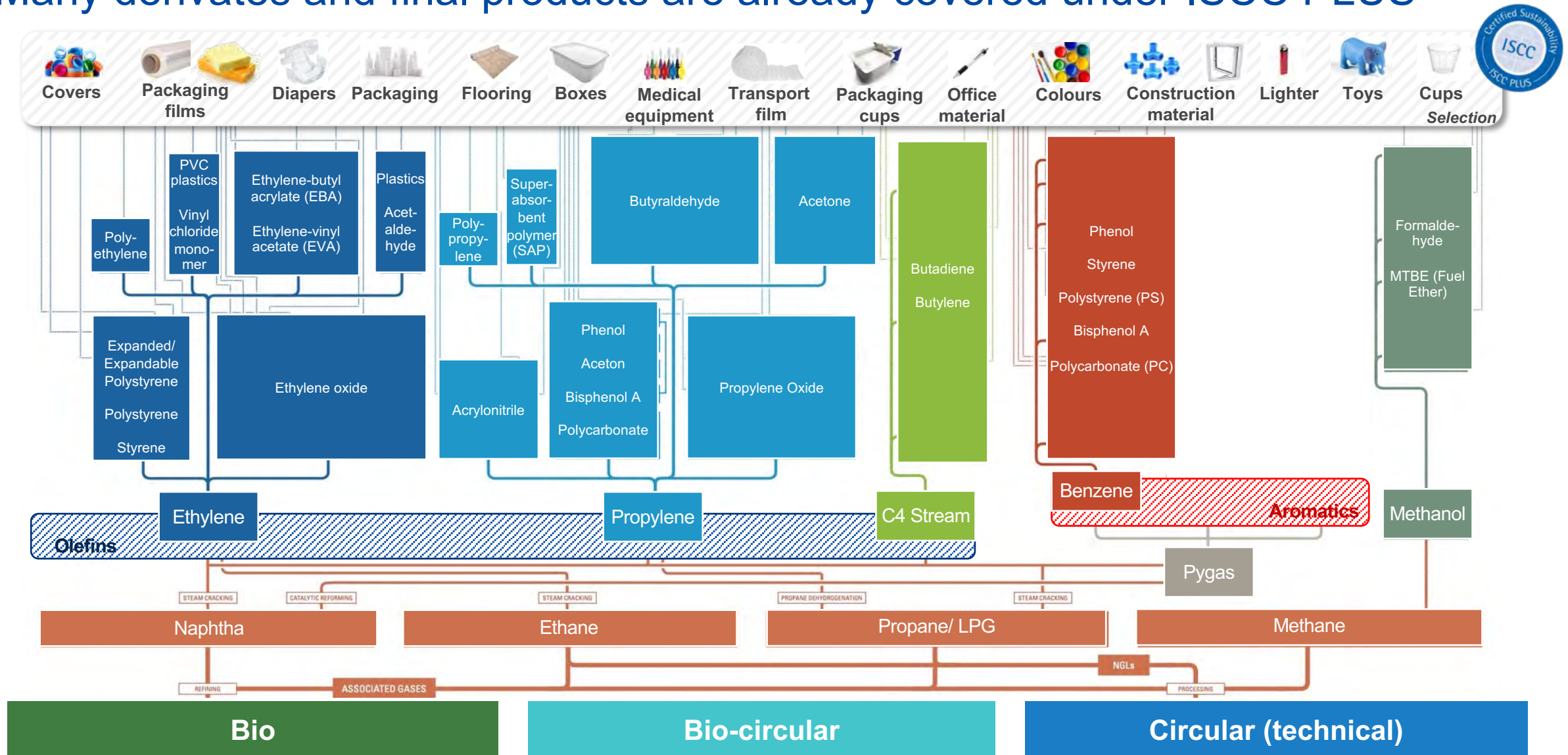


Hydrogen

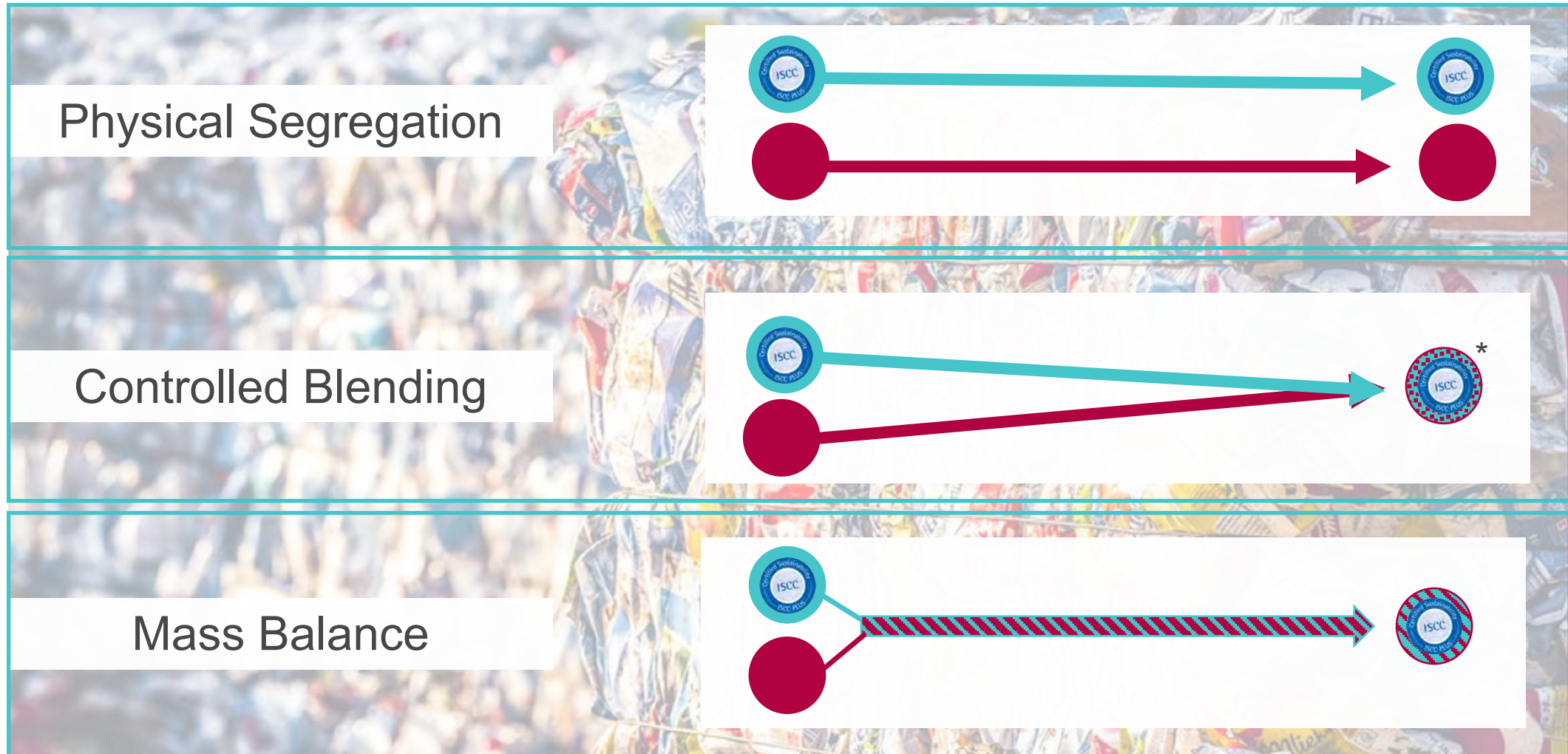


Power-to-X

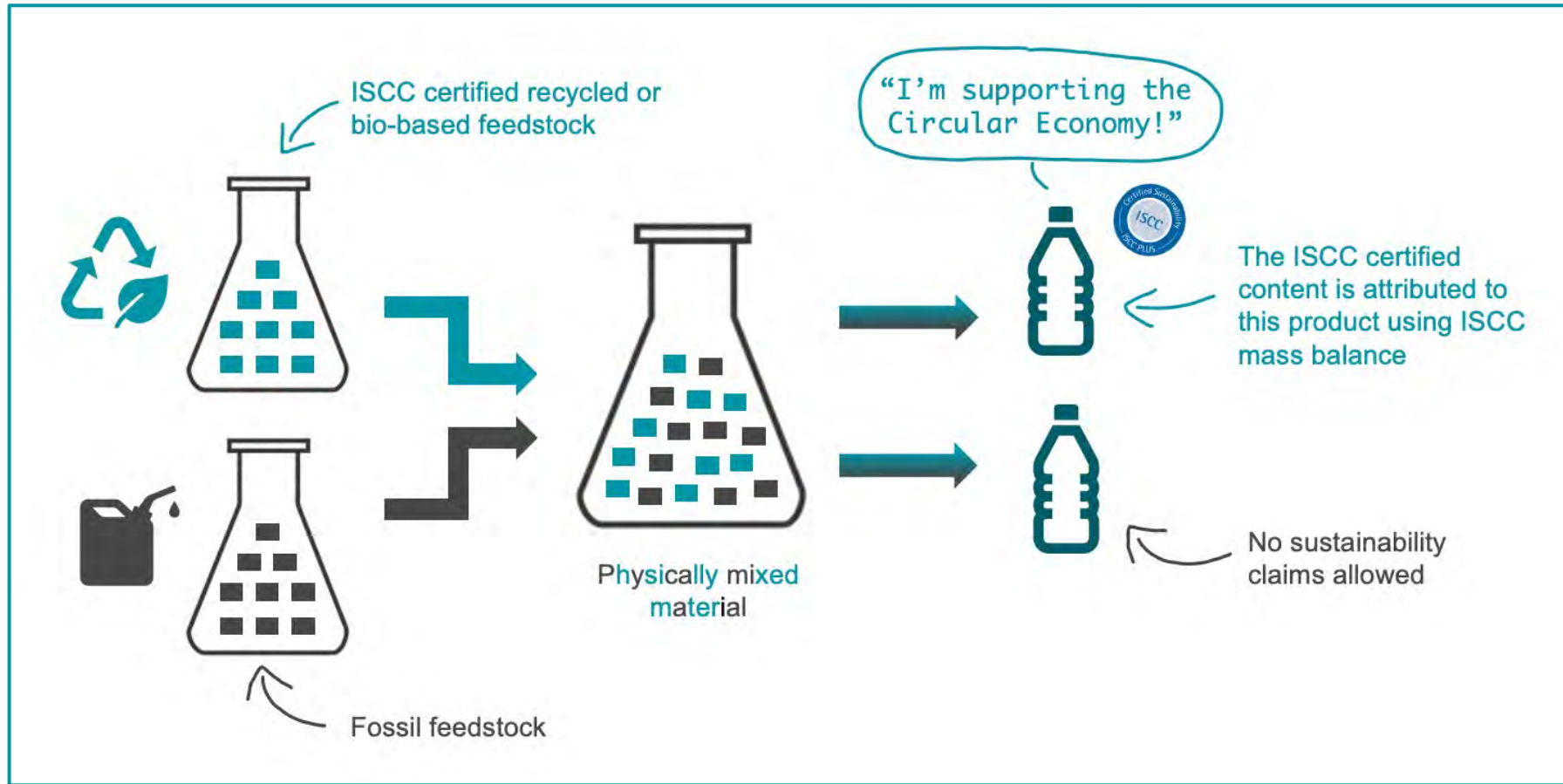
Many derivatives and final products are already covered under ISCC PLUS



ISCC certifies different chain-of-custody approaches and creates transparency on the approach chosen



ISCC supports mass balance accounting




Mass balancing is a method to document and track recycled/bio-based content through complex manufacturing systems.



By using mass balance, companies can track how much recycled/bio-based material has been used in their manufacturing systems and balance it out exactly with the certified content in the end products.

ISCC mass balancing options

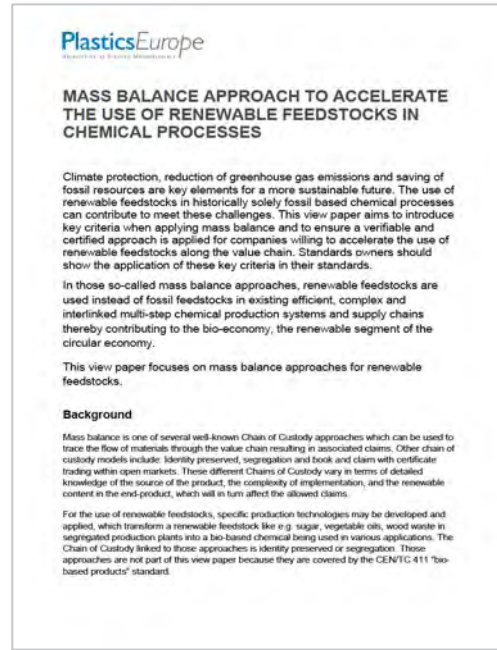
Option	Approach	Principle	EMA- White paper 
1 Mass Determination	Attribution Approach	Free attribution to one or several outputs	Mass allocation
2 Energetic Determination			LHV
3 Trace-the-Atom	Molecular Approach	Determination based on chemical reaction	Carbon counting
4 ¹² C/ ¹⁴ C Analysis	Measurement	Measurement of sustainable share	

ISCC PLUS requirements are in line with important initiatives

Ellen McArthur Foundation White Paper (2019)



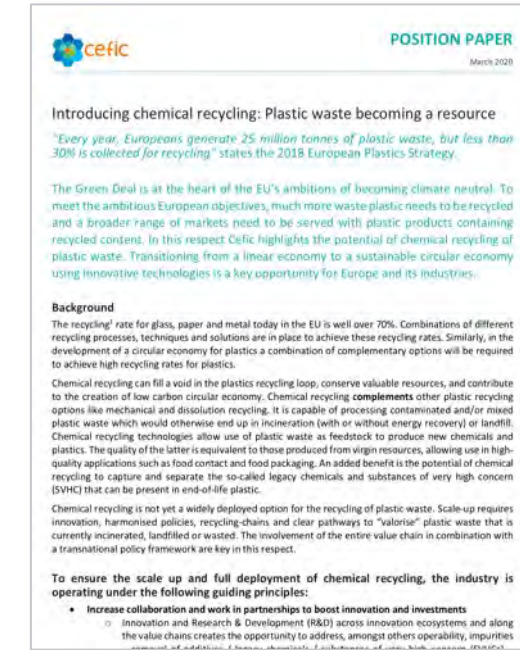
Plastics Europe Industry View Paper (2020)



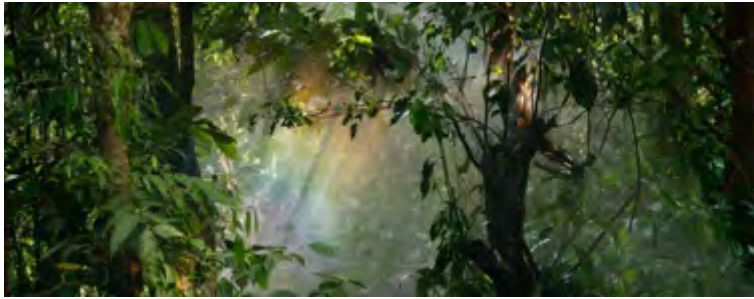
American Chemistry Council Mass Balance Certification Principles for Advanced Recycling (2020)



Position Paper cefic (2020)



ISCC has strong principles for bio-based feedstocks (on agricultural level)



Principle 1: Protection of biodiverse and carbon rich areas



Principle 2: Good Agricultural Practice



Principle 3: Safe Working Conditions



Principle 4: Compliance with Human, Labour and Land rights

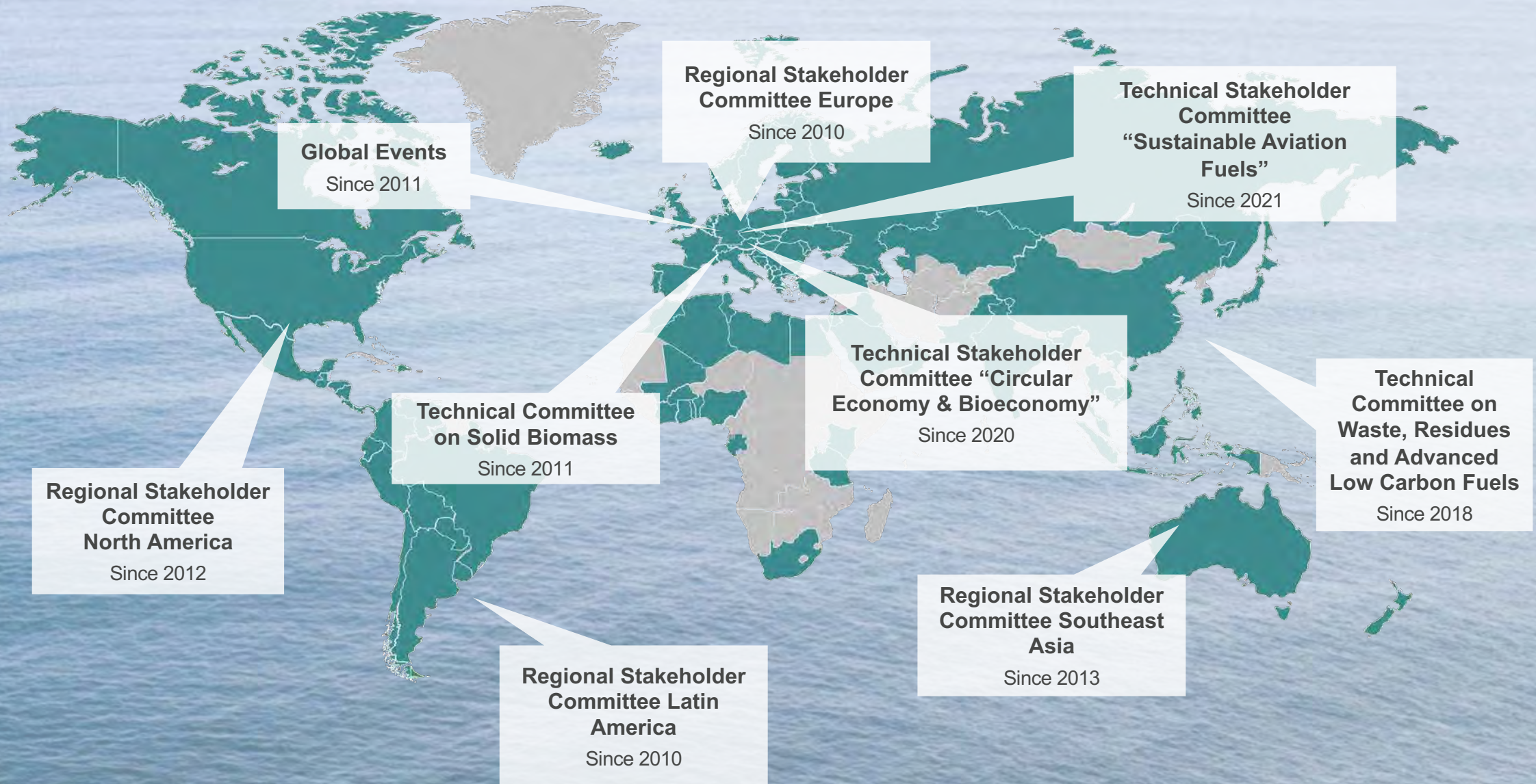


Principle 5: Compliance with Laws and International Treaties



Principle 6: Good Management Practices and Continuous Improvement

ISCC puts major emphasis on a regular and regional stakeholder dialogue



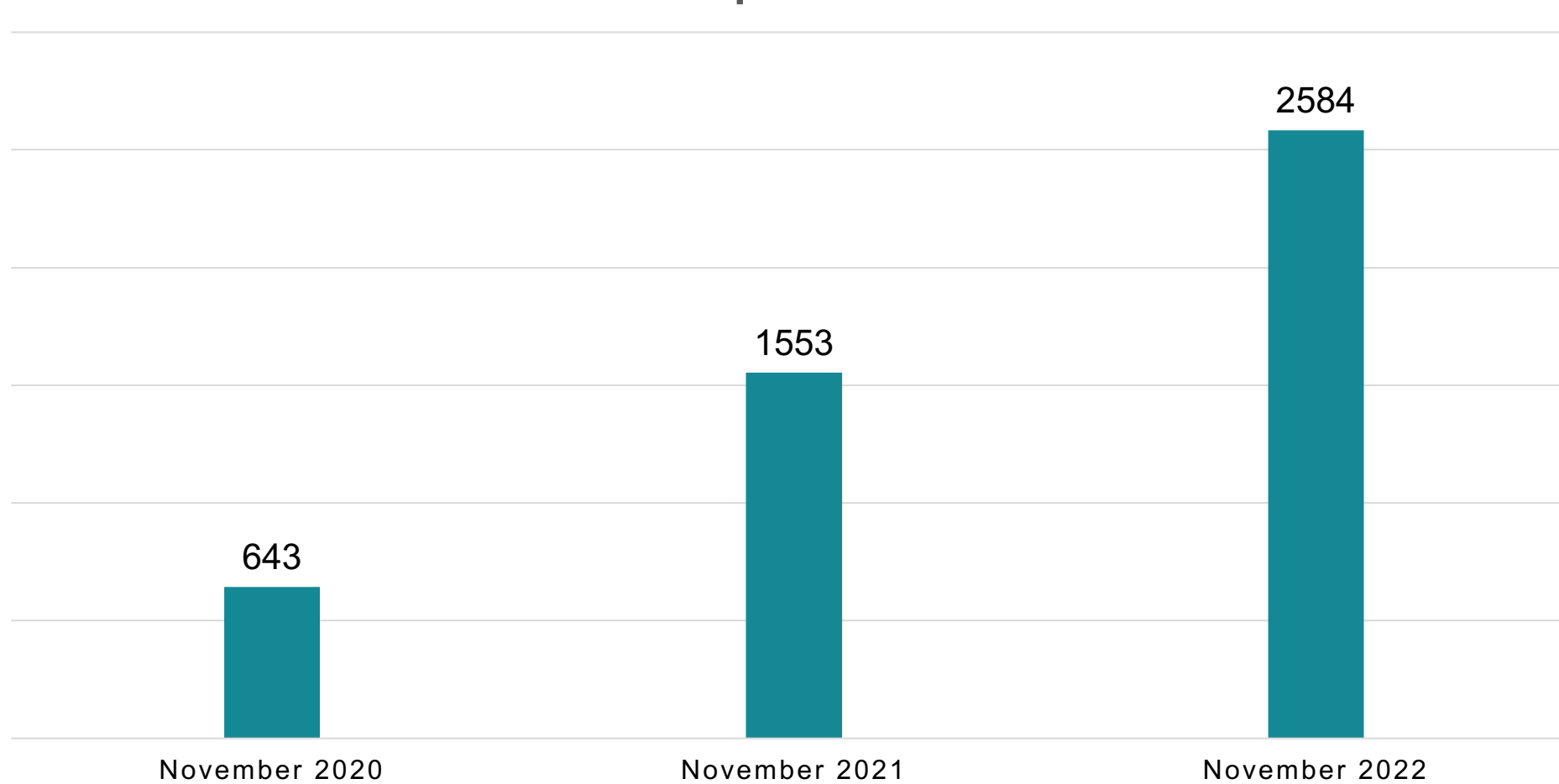
Many companies in the chemical industry, as well as brand owners rely on the credibility of the ISCC PLUS certification system

SELECTION



The number of ISCC PLUS certificates increases steadily

Valid ISCC plus certificates



Note: Numbers as of 13 September 2022



An ISCC PLUS certification adds value for consumers



Third-party certification is an effective and proven way for brands to **increase consumer trust**

→ A study from 2018 showed that **third-party certification labels** as signaling instruments effectively reduce the risk of poorer performance and **positively affect consumers' purchase intentions for sustainable products** if the label is viewed as credible.¹

Greenwashing allegations can be avoided - Claims are credible and trustworthy with ISCC PLUS certification

¹ Brach, S., Walsh, G. and Shaw, D. (2018). Sustainable consumption and third-party certification labels: Consumers' perceptions and reactions. *European Management Journal* 36, 254 - 265



More and more brand owners become ISCC certified or ISCC licensed.

Examples



Swedish Match.



Beiersdorf



DELIZIO



bugaboo



Orkla



Mondelez International

Hpm

Kraft Heinz

Tupperware

FRONERI

Mölnlycke



With the licensing scheme, brand owners can apply the new logos more easily

Examples



All licensees appear in the [license database](#)

ISCC License Database

Please find a list of all ISCC licensees below. Expired licenses are marked in red. The license is crossed out if a license was withdrawn. From the date of publication on the website, the license agreement is valid and ISCC logos and claims can be applied by the licensee upon prior approval by ISCC.

Search:

Status	Product name	Product or Packaging	Licensee	License number	Countries/Region	Valid from
✔	Aino Ice Cream Tubs, 900ml	Packaging	Froneri Finland Oy	ISCC-L-1	Finland	2021-08-31
✔	Global Protection Day Cream, 50ml	Packaging	REN Clean Skincare	ISCC-L-3	Worldwide	2021-09-09
✔	Evercalm Gentle Cleansing Milk Sample, 50ml	Packaging	REN Clean Skincare	ISCC-L-3	Worldwide	2021-09-09
✔	Glow Daily Vit C, 50ml	Packaging	REN Clean Skincare	ISCC-L-3	Worldwide	2021-09-09
✔	Bioretinoid Cream, 50ml	Packaging	REN Clean Skincare	ISCC-L-3	Worldwide	2021-09-09
✔	Radiance Dark Circle Eye Cream, 15ml	Packaging	REN Clean Skincare	ISCC-L-3	Worldwide	2021-09-09
✔	XRange (XR), Medium Can	Packaging	Swedish Match	ISCC-L-4	Worldwide	2021-09-23
✔	ZYN, Medium Can	Packaging	Swedish Match	ISCC-L-4	Worldwide	2021-09-23
✔	ZYN, Large Can	Packaging	Swedish Match	ISCC-L-4	Worldwide	2021-09-23

More and more brand owners are using the ISCC logo on products



The cap and hood of this bottle is made with 100% bio-based plastic. The plastic can be traced back to biological waste material which is attributed to this bottle via the ISCC mass balance approach.



The new on-product logos will soon be on more and more products!



NUK for Nature uses ISCC certified bio-attributed material for their latex soothers



Mattel's Matchbox Action Drivers are produced with ISCC certified bio-attributed plastic



Nestlé's Nesquik packaging for the French market made with 50% recycled plastic certified by ISCC mass-balance approach



Aino icecream package is produced with with ISCC certified bio-attributed plastic



NIP pacifiers are both made from and protected by ISCC certified raw materials



Pigeon nursing bottles have their caps made from 100% bio-based plastic certified by ISCC



The cap and hood of this bottle is made with 100% bio-based plastic. The plastic can be traced back to biological waste material which is attributed to this bottle via the ISCC mass balance approach.



Clemente olive oil is made from 100% sustainably farmed olives, as certified by ISCC



ISCC PLUS Certification stands for



Traceability throughout the supply chain



Transparent rules for mass balancing and physical segregation



Clear attribution of certified materials through mass balancing



Feedstock identity



Well-defined and third-party verified claims



No deforestation



Protection of biodiversity and high carbon stock areas

Join us in our journey today and
be part of the change!

ISCC System GmbH

