

INEOS
Styrolution

Opportunities and challenges for ISCC PLUS certified chemicals

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INEOS group overview

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25'000

People



\$68 billion

2022 Sales



3 million tonnes

BOE per annum



Safety first

SHE is our highest priority



16 million tonnes

Refinery products



66 million tonnes

Chemical capacity



31 countries

182 Sites globally

63

Sites in America

85

Sites in Europe

32

Sites in Asia

2

Sites ROW

INEOS Styrolution

At a glance

16

production sites

5

R&D centres

3,100+

employees

9

countries

4,000+

customers

6.6 billion

euros in revenue

#1

Global leader
in styrenics

2,000+

applications
across 7 industries:

 Automotive

 Construction

 Packaging



 Household

 Electronics

 Healthcare

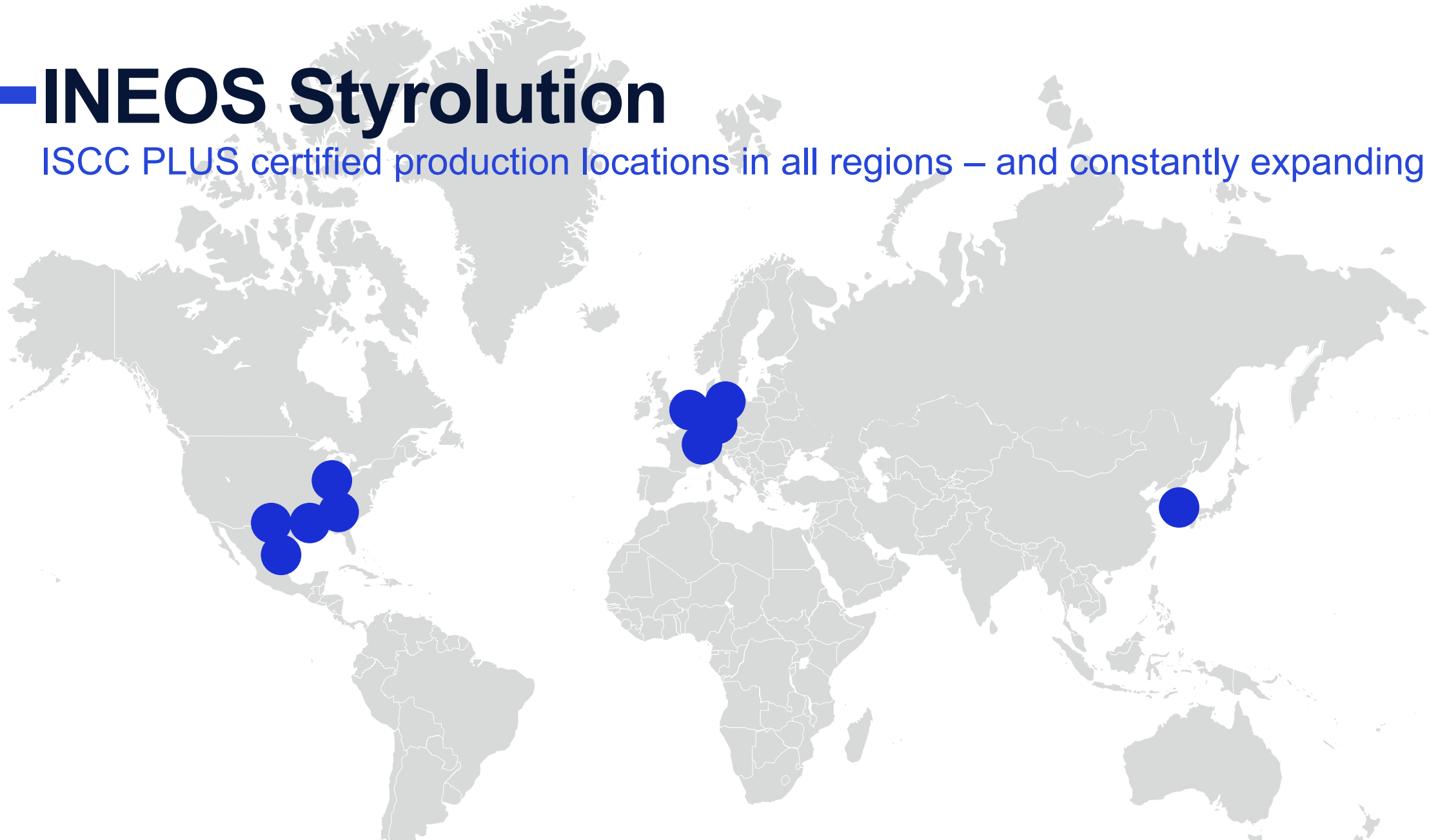
 Toys, sports & leisure

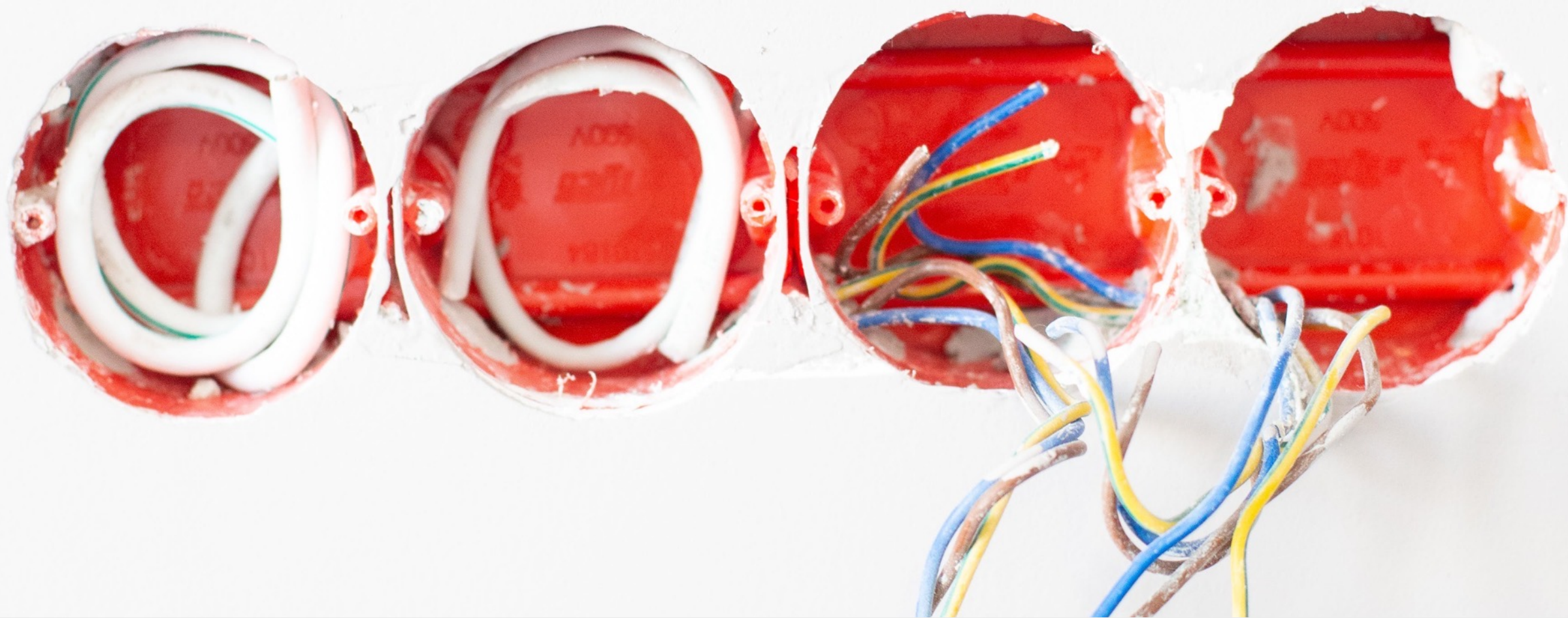
90+ years
of experience in styrenics

-  Headquarters
-  Production sites
-  R&D centres
-  Sales offices

INEOS Styrolution

ISCC PLUS certified production locations in all regions – and constantly expanding





**Why
Mass
Balance?**

01

Existing Assets

02

Large scale

03

**Multiple process
steps**

04

**Broad array of
output products**

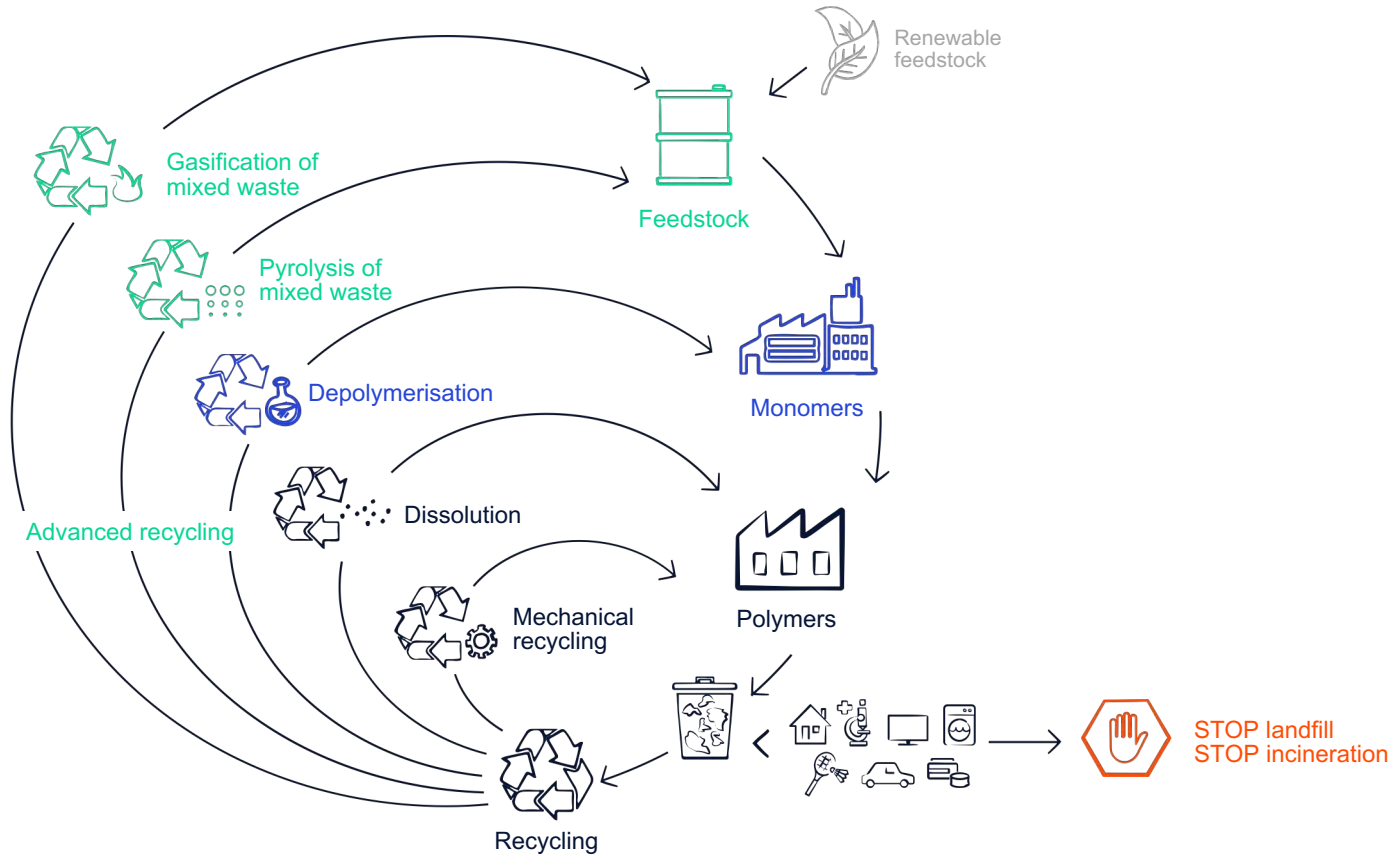
05

**Recycling and
bio**

06

**Feedstock
availability**

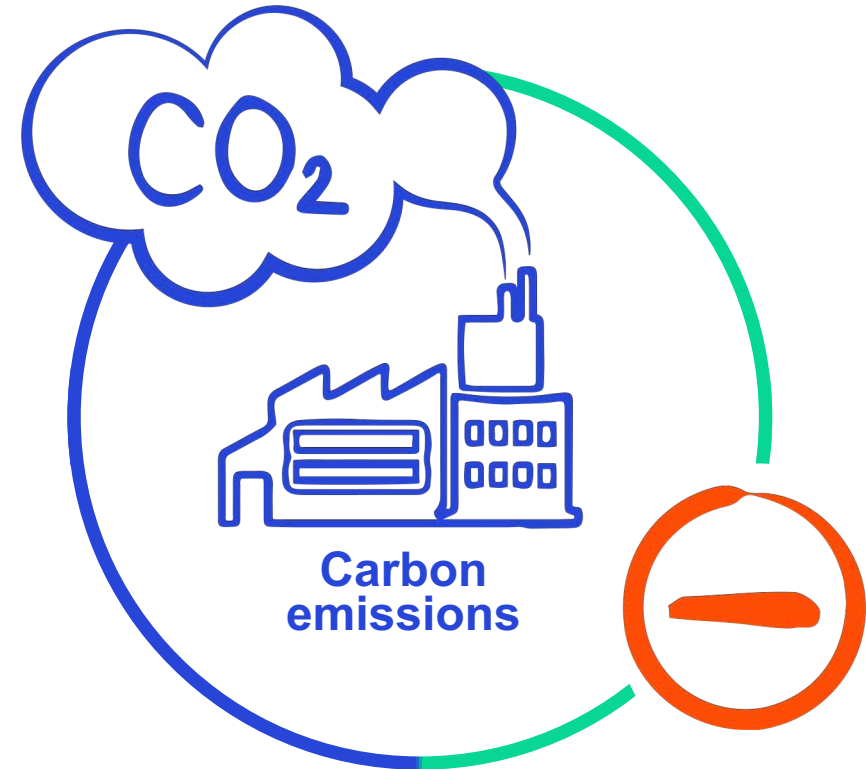
Recycling technologies are complimentary



- Plastics recycling can be done using different technologies with different profiles (waste input, outputs, etc.)
- To make the transition happen, we need all of them
- For all advanced recycling methods, mass balance is a key enabler

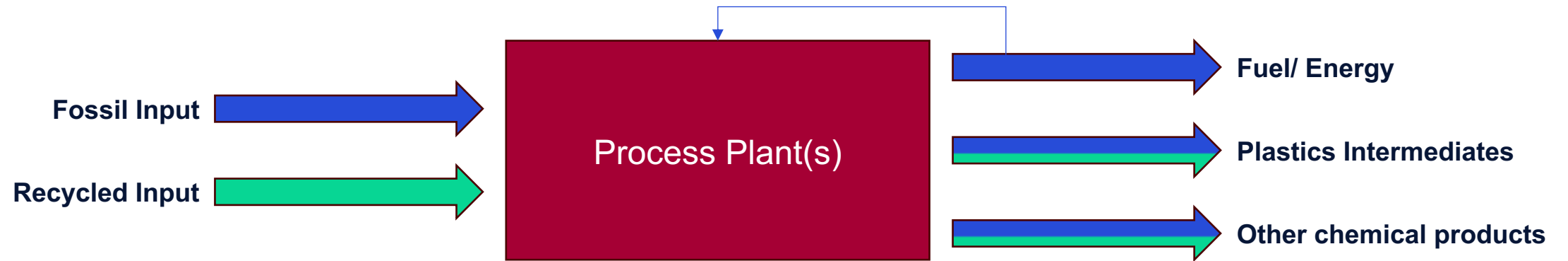
At the core, it's simple

Let's take a system view!



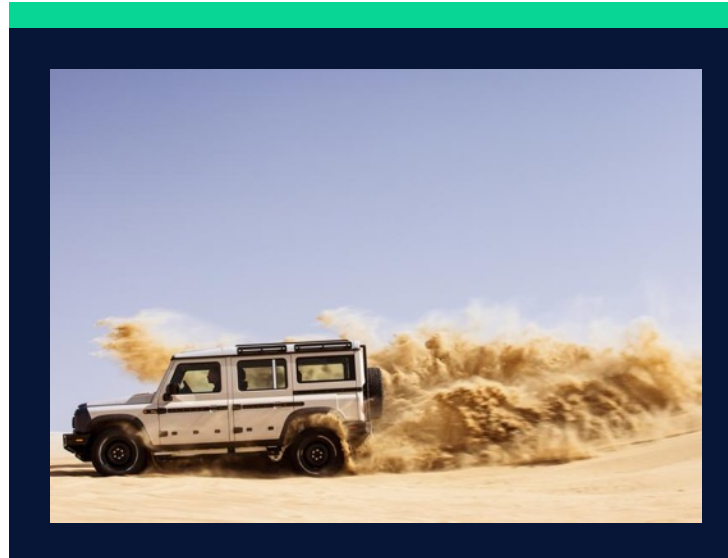
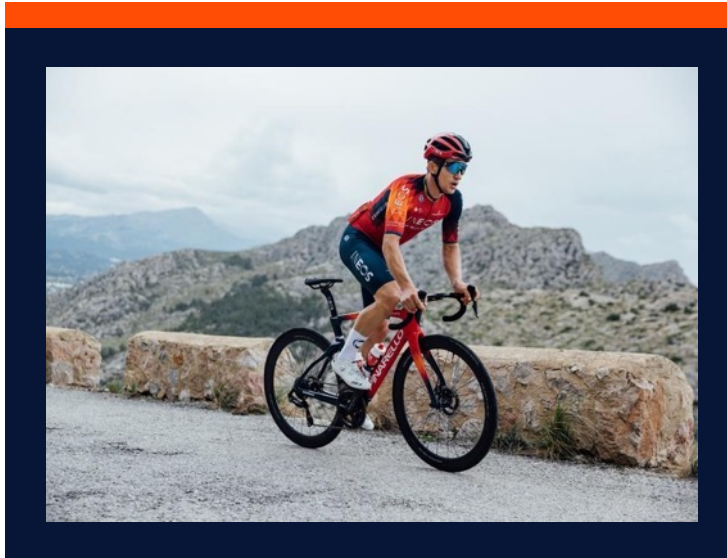
— What are we talking about?

Flexible mass balance acceptance is crucial to incentivize the rapid recycling scale-up



- Flexibility is not a way to greenwash, it's a precondition to make investments viable
- Taking a “system view”
- Thinking in solutions and value chains

We like wheels...



but not reinventing the wheel:

- ISCC PLUS is the de-facto global standard
- Why develop more standards in endless legislative processes?

- Enablement instead of bureaucracy

- Mass balance is the enabler for the green transition
- Expand it to related fields (energy, utilities, etc.)

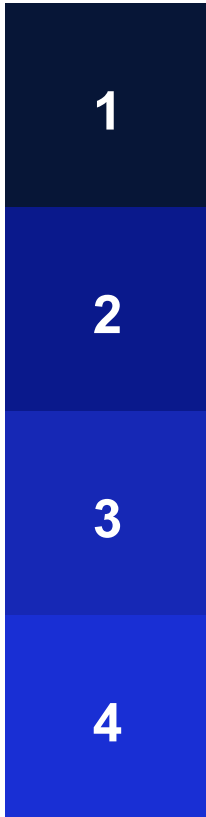
— What we need

Mass balance fuel use exempt acceptance

- Flexible mass balance acceptance is crucial to incentivize the rapid scale-up.

Transparency

- Clear mass balance product claims



A reliable framework. Now.

- Unclear regulation unsettles the value chain and delays investments in recycling solutions

Alignment

- Mass Balance, Product Carbon Footprint, ISO Standards, etc.

Making the recycling revolution happen quickly on big scale is a major challenge.
Our strong commitment needs support from legislators and value chain.

A quick practical outlook

Our interaction with ISCC

- Be prepared for the regulated markets
- Think global
- Speed and resources (personnel)
- Consistency is key for lean implementation and automation
- There is more to “mass balance” than bio and recycling inputs



THANK YOU

For more information visit:

[INEOS-Styrolution.com](https://www.INEOS-Styrolution.com)

[Styrolution-ECO.com](https://www.Styrolution-ECO.com)