



Welcome



President's Introduction



Digital Waste Tracking

10:35 – 10:55

Environment Agency Update

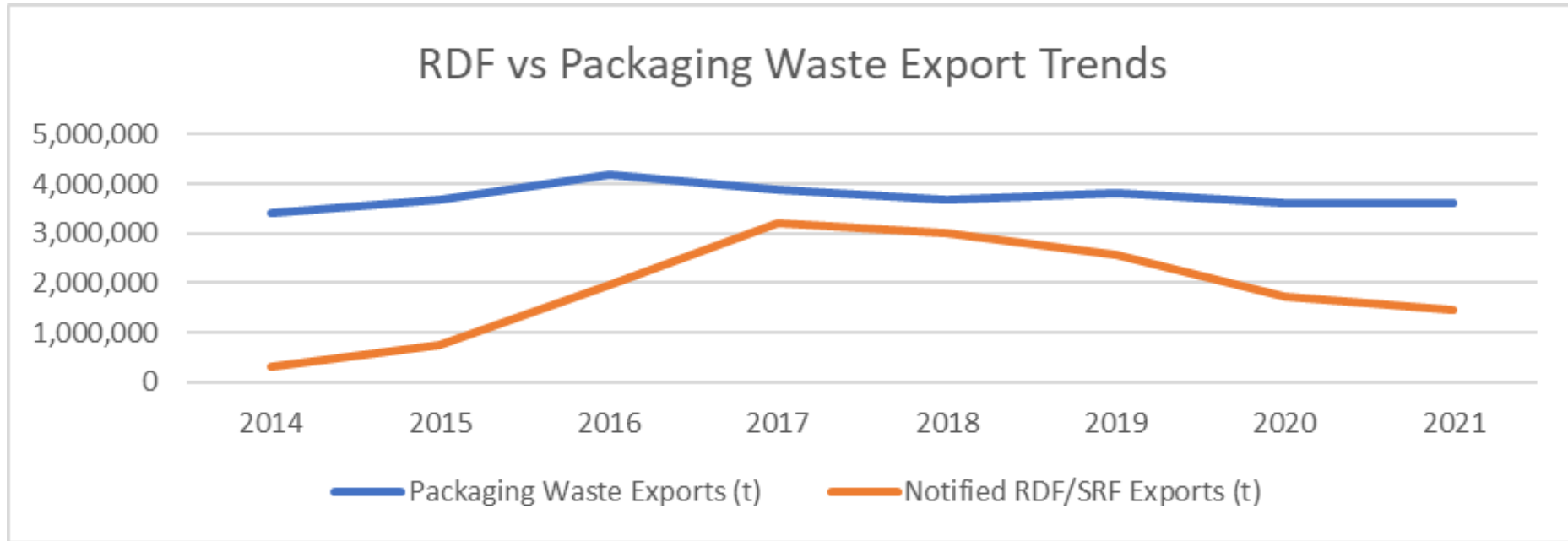
Rob Scarpello

Senior Advisor Waste Shipments and International Engagement

Overview

- Introduction
- The importance of the waste exports sector
- The risks
- Our work to tackle illegal exports
- The future
 - Resources and Waste Strategy
 - Waste Shipments
 - Waste Tracking
- **I'm here to listen to your views / answer questions**

Importance of the Waste Exports sector



- 12.8m Tonnes of Residual Household Waste produced in 2020/21. In 2021 1.6m tonnes of Notified RDF / SRF was exported (12.5%)
- 4.1m Tonnes of Packaging reprocessed in UK in 2021. 3.4m Tonnes of Packaging waste was exported (45%)

The risks



Tackling illegal exports

- In 2021-22 we inspected 1,390 containers and stopped 260 containers containing ~19,111T of illegal exports
- 19% of containers inspected are illegal



The Future

Wider changes

- Waste Tracking
- CBD (Carriers Brokers Dealers)
- Materials Facilities
- Haz Waste



- Waste Exemptions
- Consistent collections
- Deposit return scheme
- Extended Producer Responsibility



Exports changes

All Exports

- Requirement for UK presence
- Review of current charging structure

Green List

- Plastics ban
- Annex VII submission
- New charges

Reactive Work



Questions

- Questions from presentation?
- Your views / Intelligence



Update on Traqa

11 – 11:25



traqa

Digital automation for the Recycling Industry

RECYCLING ASSOCIATION CONFERENCE 2023

WHAT IS TRAQA?

Led by industry trade body The Recycling Association, Traqa is a collaborative platform to automate the transfer of information between all parties in the recycling supply chain, tracking loads for export from origin to end destination.

Traqa's objective is to simplify export process in the recycling and waste industry

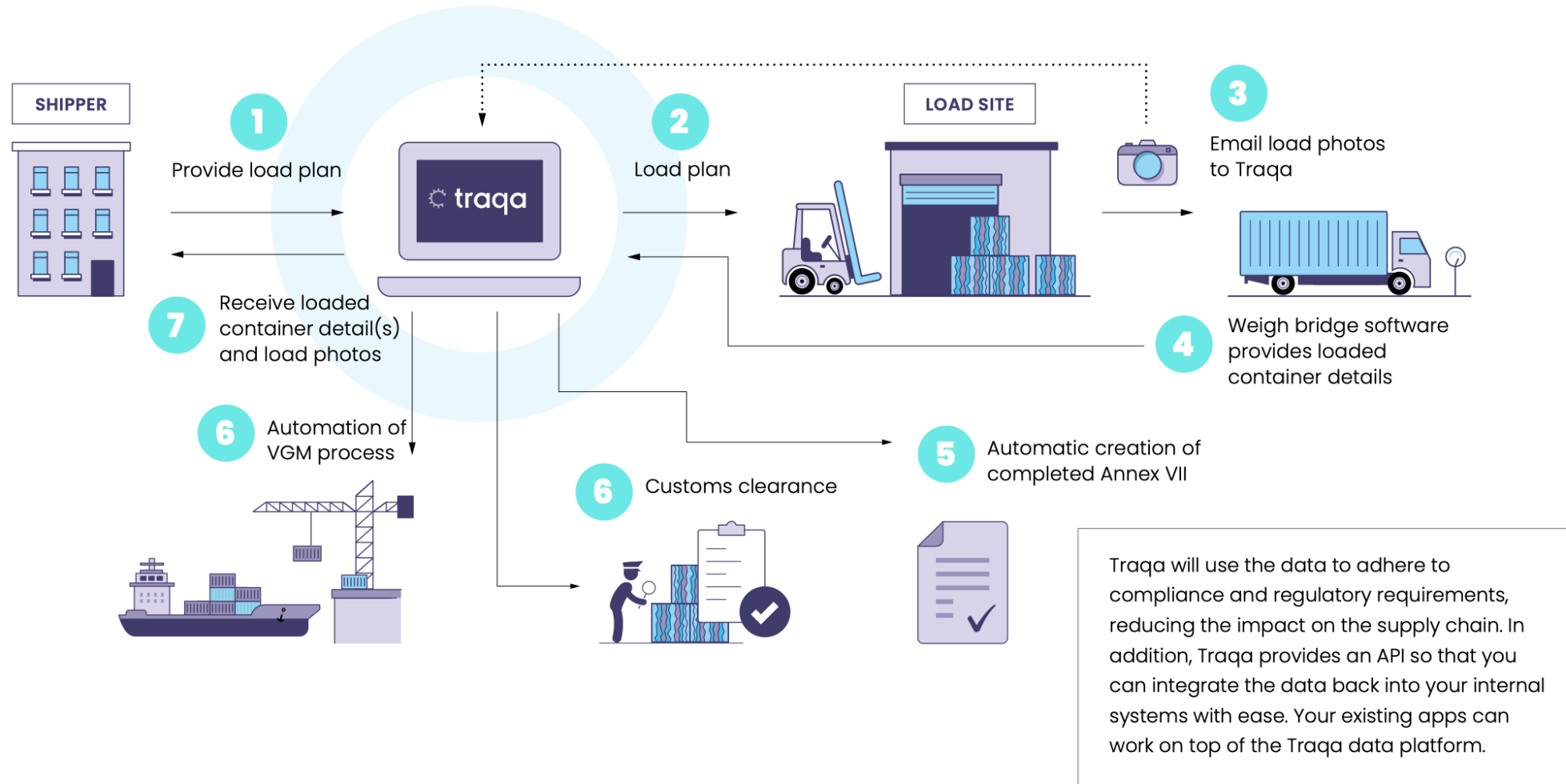
TRAQA – MISSION

- Provide evidence of **compliance** for recycling exporters building trust in the supply chain
- **Reduce manual tasks** that can be automated
- Enable **real time regulatory reporting**
- **Remove the physical paperwork** (Annex VII) in favour of a data first approach
- Enable **Digitalisation and Automation** for the Recycling Industry

INDUSTRY PROBLEM

- **Administrative time** is high for repetitive tasks where time could be better spent elsewhere
- **Manual checking** of documents and photos
- **Email and Excel** are acting as the '**system**'
- Innovation and **efficiency is hindered** as process is only scalable by adding more people
- **Can't build innovation** on manual process
- Data is held in silos

HOW IT WORKS



TRAQA APPLICATION

TIMELINE



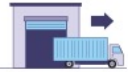
Planned Loading

10/03/2023 09:00



Arrived at Load Site (Empty)

10/03/2023 06:57



Departed Load Site (Loaded)

10/03/2023 08:10



VGM Submitted



Customs Clearance



Arrived at Port Loading

DOCUMENTS

Weighbridge Ticket

DOWNLOAD

Commercial Invoice Document

DOWNLOAD

Annex VII Document

DOWNLOAD

LOAD PHOTOS











TRACK CONTAINERS TO END DESTINATION

Tracking

Enter a container or booking number

Search



Carrier Booking Number:

EBKG04572663



From:

Felixstowe



To:

Taichung



MSDU5898464



Estimated arrival date



Last location

Departure | Ningbo Lishe International Apt, China | March 08, 2023

Hide details ^

Show 1 more event

Liverpool
United Kingdom



09-Jan-2023 23:57

Actual gate out of equipment at depot

Felixstowe
United Kingdom



10-Jan-2023 13:22

Actual gate in of equipment at port terminal

Felixstowe
United Kingdom



18-Jan-2023 17:22

Actual load of equipment at port terminal

Felixstowe
United Kingdom



20-Jan-2023 10:00

Actual departure at port terminal

Singapore
Singapore



13-Feb-2023 18:30

Actual arrival at port terminal

- Track Ocean Containers to **End Destination**
- Aggregates data from Ocean Carriers to **single tool** saves searching multiple websites
- Identify **key dates related to payments** i.e. Port of Loading, Port of Discharge or Delivery
- End destination Mill can use to find updates **reduces queries for your team**
- Traqa loads are **automatically subscribed** to updates
- Data is **accessible via the API** to integrate into your system

WHAT'S NEXT?



UK CUSTOMS IS CHANGING

- UK Customs system changing from CHIEF to CDS
 - **March 2023** – ONLY GVMS Traders will be contacted
 - **Summer 2023** – Approaching ALL declarants to take steps
 - **September 2023** – Migration to CDS for ALL Export Declarations
- Think about action steps now, more information is needed for a declaration, and codes are changing examples:
 - CHIEF Goods Location was '**GBFXT**' now '**GBAUFXTFXTFXT**' if using inventory, or for GVMS you will need to provide '**GBAUFXTFXTFXTGVM**' do you know your routes?

Traqa already captures CDS data requirements for Export Customs Declarations

DIGITAL WASTE TRACKING

- Pre Notification to Waste Tracking Service of data such as date of shipment, port of departure essentially a 'pre Annex'
- Waste Tracking Service reference to be entered onto the Annex VII
- Completion of Annex VII dataset once goods have loaded on Waste Tracking Service

65%

Agreed Real Time recording

35%

Would Enter Manually

16%

Would Upload Excel

Traqa can provide this data in real time to the regulator on your behalf

END OF THE PAPER ANNEX VII? (ALMOST)

- **EU Commision** passed law to enable 'data instead of documents' comes into effect 2025 meaning paper Annex VII, CMR etc can be electronically provided. This is covered under the eFTI regulation.
- **UK GOV** following suit with the '**Electronic Trade Documents Bill**' which would allow digital 'documents' to be legally acceptable.

Traqa will be an eFTI approved platform for European movements

THANK YOU FOR YOUR TIME, OPEN FOR QUESTIONS
www.traqa.io

To register your interest contact us at:
info@traqa.io





Q&A

11:25 – 11:40



Coffee

11:40 – 12



Update from Kelloggs

12 – 12:20



Kellogg, Pringles and our sustainable packaging journey



Annie Farrar
Sustainable Packaging Lead, Kellogg Europe





Sustainability isn't simple... Lets discuss:



Sustainability... at the core of Kellogg's

Our founder *W.K Kellogg*, was an early conservationist and an original wellbeing visionary.

From our founding in 1906, our cornerstone packaging – our cardboard box – has been recyclable and made of recycled c

Kellogg's



100 + YEARS OF KELLOGGS PACKAGING



KELLOGG'S SUSTAINABLE PACKAGING COMMITMENTS



Individual Sustainable Packaging Commitments:

1. Working towards 100% reusable, recyclable or compostable packaging by the end of 2025
2. Continue sourcing 100% recycled or certified sustainably sourced timber-based packaging



Ellen Macarthur Foundation – New Plastics Economy Global Commitment:

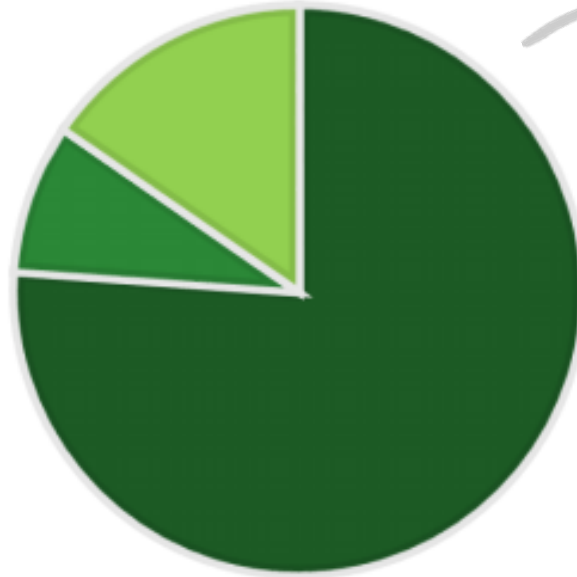
1. 100% of plastic packaging to be reusable, recyclable or compostable by 2025
2. Use 10% recycled content on average (by weight) across all plastic packaging used by 2025
3. Take action to eliminate problematic or unnecessary plastic packaging by 2025
4. Take action to move from single-use toward reuse models where relevant by 2025
5. Reduce virgin plastic usage by 5% (by weight) by end of 2025 (from a 2021 baseline)

KELLOGG'S... WHERE ARE WE UP TO?

Not Recyclable 15%

Recycle Ready (store drop off) 9%

Recyclable in Practice and at Scale 76%



76% of Kellogg's packaging is recyclable globally





Challenges and complexities to overcome





The Next Generation Pringles Tube

THE SCALE OF OUR PRINGLES PRODUCTION

☆ Produced in Mechelen,
Belgium ☆

☆ 90,000 tons of chips
a year ☆

☆ 24/7 operation ☆



☆ 2 million cans a day ☆

☆ Worldwide export ☆



☆ 5 different can sizes and
33 different flavours ☆

CHALLENGES AND COMPLEXITIES TO OVERCOME



1 Global Supply Chain

Record Low Food Waste

Fresh at point of consumption

Sustainable and circular

Multiple collection, sorting and recycling technologies

Kellogg on sustainable packaging ~EMF pledge

Various regulations and norms on classification

Food & Pack Integrated process



PRINGLES CAN TEST AND LEARN



We set out to create a Pringles tube that could be easily recycled and have a positive impact on shoppers

RESULTS

- Package Liking
- Positive Purchase Intent
- Positive Recycling Behavior
- Challenges on standard product

CONCLUSION

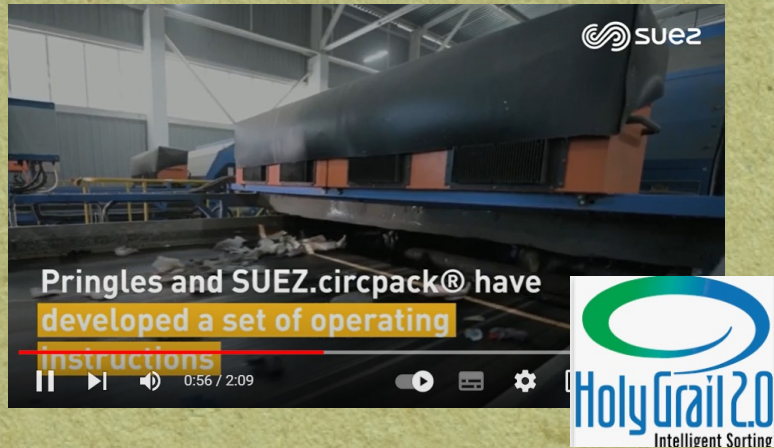
Focus our efforts to deliver a sustainable Pringles Can of the



- 1 Piolet Plant
- 2 Recyclable Formats
- 3 UK Stores
- 6 weeks in store
- 8 Line Operators
- 6000 Pringle Cans

MAKING SURE WE ARE WIDELY RECYCLED

sorted



[Food & Beverage – Optimizing the recyclability of Pringles iconic packaging – SUEZ - YouTube](#)

- MRF operating instructions and NIR settings identified to sort Pringles tubes into a recycling stream

recycled



- Pulping trial successful with a high dry fibre yield
- No fibre loss in reject stream
- No poly-Al particles in the fibre stream

in practice and at scale



- Fibre-based composite packaging is successfully recycled in specialised mills

TRIMMING PLASTIC FROM OUR PACKS

CHALLENGES



**Multiple
Food Variants**



**Plant
CAPEX**



**Multiple
Trials**



Artwork



**Lengthy
lead times**

TRIMMING PLASTIC FROM OUR PACKS

1

Kelloggs Packaging Teams Response

- Working within machine tolerances
- Avoiding extended lead times
- Consumer transparency



TRIMMING PLASTIC FROM OUR PACKS



We removed
almost the equivalent of

5

Double Decker
Buses



OPPORTUNITIES TO WORK TOGETHER



Recycled Plastic Content



Kerb side collection



I invite you to share with us your plans....
And lets partner for a sustainable future

IN SUMMARY.....

MAKING OUR PACKAGING
SUSTAINABLE IS THE RESPONSIBLE
THING TO DO

WE'RE MAKING PROGRESS...

BUT WE CONTINUE TO DO MORE TO
HELP SUPPORT THE PLANET, OUR
CONSUMERS AND OUR RETAIL
PARTNERS

Kellogg's



Staying focused. Going further

Thank you



Annie Farrar
Sustainable Packaging Lead,
Kellogg Europe

Kellogg Company
Manchester, England, United Kingdom



Innovations in cardboard packaging

12:40 – 13

Innovations in cardboard packaging

DS Smith R&D

15th March 2023



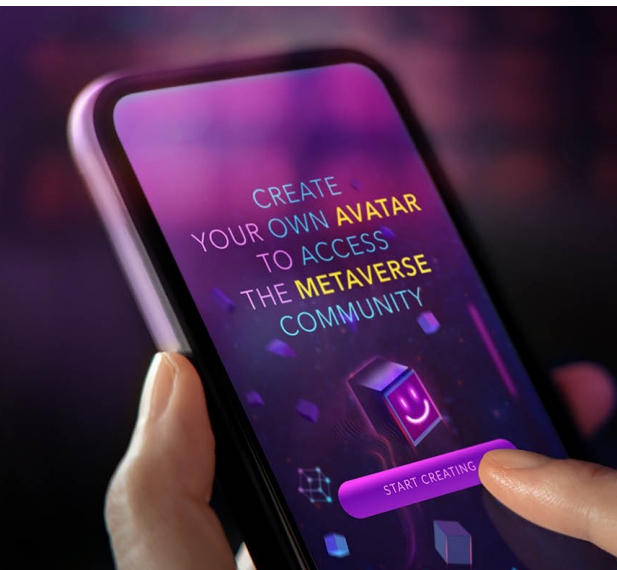
Redefining Packaging for a Changing World



Discover more at dssmith.com/purpose



Why we are Redefining Packaging for a Changing World



Digital technology is revolutionising the way we shop and live



Sustainable packaging solutions will play a key role in our changing world



Customers want more from products with less impact on the environment



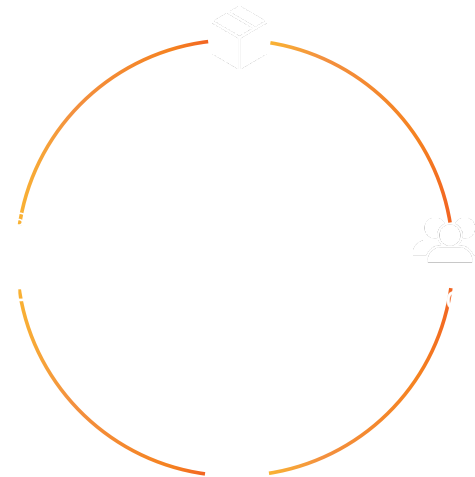
New thinking, new ideas and a radical new approach to packaging is needed

Circularity is key

Recycling is key to our business

Paper fibre is our main raw material to make recycled corrugated boxes

- How do we keep the fibre in the loop & make the most of it?
- What about barriers vs plastic?
- What about other fibres?



Fibre & Paper Development Laboratory

Recyclability

Challenge

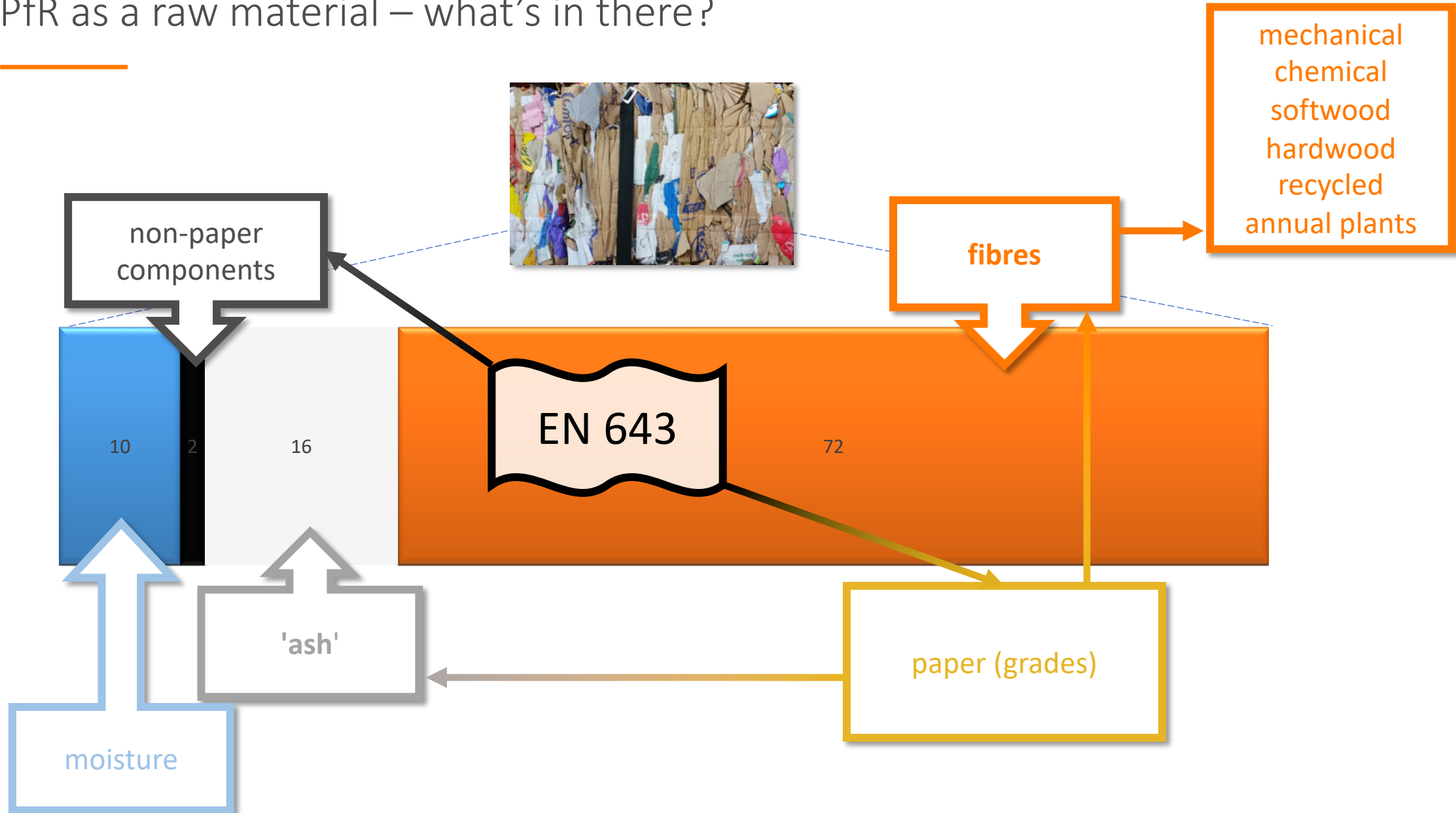
Fibre gets damaged as it goes through the process

How can we improve the performance of the paper from the PfR raw material?

What about other fibre types?



PfR as a raw material – what's in there?



Fibre & Paper Development Laboratory

“Green Technologies”

Improving fibre properties

Now

- Optimising every fibre
- Developing leading process chemistries
- Most efficient use of all resources

Next

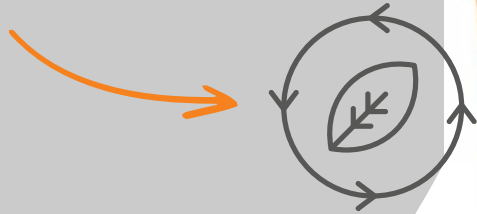
- Non-fossil-based process chemistries
- Lower energy
- Bio-based barriers



Alternative Fibres?

Potential for:

- Utilisation of currently-wasted fibre sources
- Sustainability improvements
- Improved fibre properties – eg strength
 - Straw, hemp, miscanthus, sylvie, etc
 - Interesting, BUT....
 - How well do they recycle?
 - life cycle vs wood fibre?



upto
25x

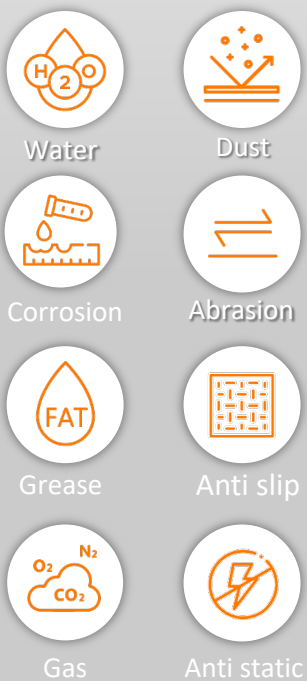
How many times can a fibre be recycled?

University of Darmstadt → 25x, potentially indefinitely...

Depends on the fibre type...wood is good

Annual plants?

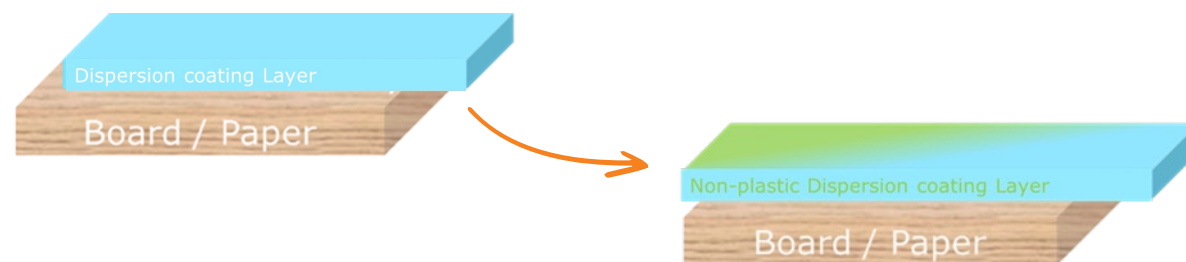
Barrier Developments



Reduce plastic content trend



Reduce laminated plastic layer



Challenge



Recyclability vs plastic

Future?

What do we want from PfR?

- Constant supply!
- Clean – free from contaminants
- How could we ensure fibre is protected?

Sensing & segregating?

- Fibre types?
- Where has the fibre come from?
- Fibre quality?

Must be recyclable in standard mills

Eco Carrier



Challenge

Easy to implement solution for plastic replacement



Solution

Sustainable alternative to shrink wrap



Benefit

100% paper-based solution



Circular
Ready

Packaging Solutions

Eco Bowl



Challenge

Plastic reduction for fresh food



Solution

Corrugated tray with a plastic film on the inside



Benefit

Fibre based alternative with a plastic reduction of 85%



Consumer
Packaging

Redefining Packaging for a Changing World



Discover more at dssmith.com/purpose





Thank You

Danke Dankjewel Благодаря 谢谢 Hvala Děkují Tak Aitäh Kiitos Merci Ευχαριστώ
Köszönöm Grazie Paldies Ačiū Ви благодарам شكرا لكم Dziękuję Obrigado Mulțumesc
Ďakujem Gracias Tack ขอบคุณ Teşekkür ederim

The Power of Less®



Chick box

Alive animals packaging



Challenge

Customer: The customer is being demanded to change his type of packaging from a plastic container to a more sustainable packaging.

Consumer: The consumer will be delighted with the fact that his packaging is 100% recyclable.

Retail: Full manual assembly with several holes, allowing chicks to breathe



Solution

A three-parts and stackable packaging that will allow the customer to store his animals in perfect conditions.



Benefits

Since the new packaging not only has more holes but also there are more air channels between one and another box –the box is frustoconical-, it will be easier for chicks to breathe. In addition, the fact that the vertical wall isn't a right angle, makes the box stronger.

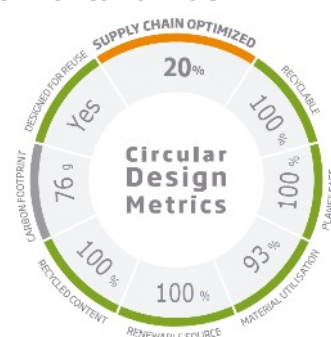
Container:



Vertical divider:

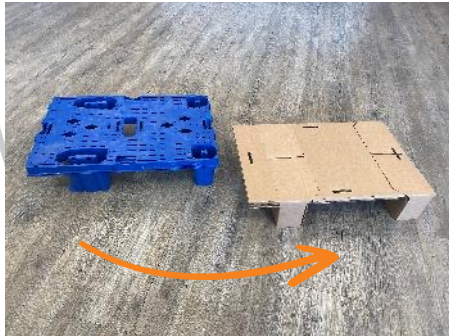


Horizontal divider:



Easy-Pal

A sustainable corrugated solution to replace plastic Chep Pallets.



Challenge

Customer: Many customers are looking for a paper based solution to replace Chep Pallets, but without changing their displays.

Consumer: Consumers should have the same experience with the displays as with Chep, the pallet should not have an effect on the probability of shopping.

Retail: The alternative solution must be able to be handled on the same way as Chep.



Solution

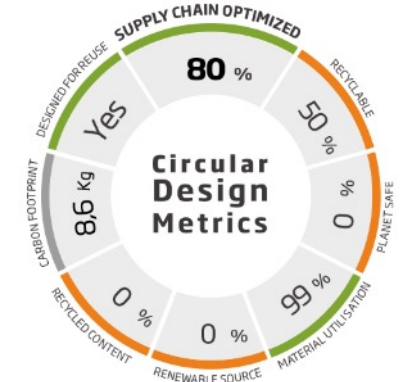
The two parts of the corrugated board pallet can be hand erected, there is no need of gluing or machinery. It can be used with many displays were originally designed for Chep, without any change.



Benefits

The pallet can be handled with forklift while holding up to 1000kg load. It is fully scalable for unique sizes (e.g. 1200x800). The solution is returnable, reusable and recyclable, and it is also compostable.

Category



Before: Chep Pallet



After: Easy-Pal

Potatoes punnets

A sustainable corrugated solution to pack potatoes



Challenge

Customer: To be rapidly in accordance with the new European law by removing conventional plastic punnets for fruits and vegetables.
To maintain the product visibility and in the same time, avoid the product UV degradation (turning green)
To have humidity resistance
To find a new mechanization

Consumer: To give appetency to the product through a premium packaging.
Easy opening and reclosing system.

Retail: Waste limited and 100% recyclable



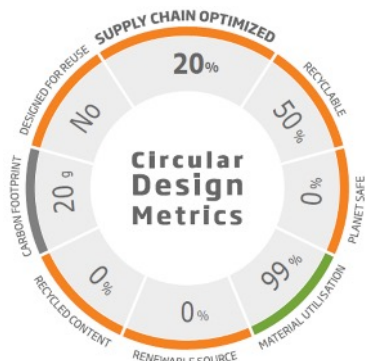
Solution

A punnet with a large adjoining flap on the top and the 2 small flaps below to avoid product theft. The large flap is gluing on the front side.

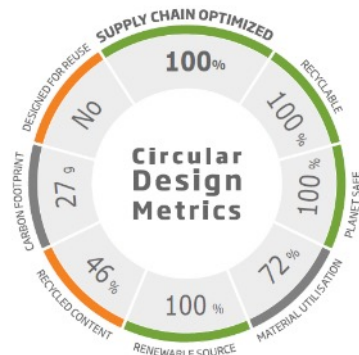


Benefits

Best impact on consumer regarding the previous plastic bags. The sales have been increased.



Before: Plastic bags



After: Cardboard packaging

Circular ready packaging for water

A sustainable corrugated solution that reduces by 65% the amount of plastic used



Challenge

- Reducing the usage of (plastic packaging).
- Extending the freshness of water after opening.
- Buying PET multipacks is impractical



Solution

- Innovative octagonal BIB
- using *smart brown* materials & graphics
- Erected on a DS Smith systems machine



Benefit

- Reduction of the total amount of plastics and cardboard used
- Elimination of secondary cartons or trays
- Easy, safe and efficient to stack the 5L Eco Packs up to 6 levels high
- Easy to store it in a standard fridge.

*Average plastic reduction (in g/l) compared to packs SPA® Reine 6x1L and 6x1.5L

Tomatoes punnets

A sustainable corrugated solution to pack tomatoes



Challenge

- Remove conventional plastic Punnets
- Being in accordance with the new European legislation
- Improve product visibility



Solution

- One piece design in 100% carton board
- Effective mechanized construction
- Personalization through printed closing label



Benefit

- No more problem plastics
- 100% recyclable carton board solution
- Eco friendly packaging, shopper appeal

Plastic Free Refill Box

A sustainable corrugated solution to **replace the plastic container** currently being used but **still offering the protective grease barrier required**.



Challenge

Customer: The increase in pressure put on companies to reduce the amount of plastic they use has created a demand by industry to find alternative sustainable solutions.

Consumer: Consumers are demanding more sustainable packaging for these types of products but still maintain the requirements needed.

Retail: To have products that are not only in single-use plastic but with the enhanced print encourage sales and its appearance in store.



Solution

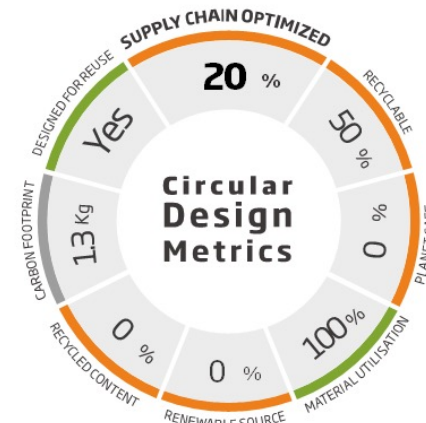
A 0711 hand-erect case which is easy to erect and pack. It is compatible with the customers existing production line. High Quality Flexographic Pre-Print enhances on-shelf appeal due to 360° branding. Finally, there is a die-cut feature which can be used as a carry handle.



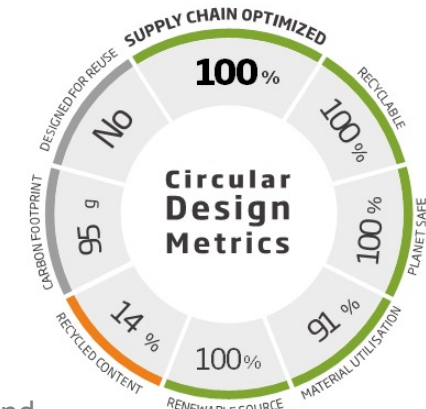
Benefits

100% plastic-free. 50% more cases per pallet outbound. Carbon footprint reduction. Removed 100tons of plastic from the supply chain so far.

Category
Bird Food/Seed



Before:



After:





Q&A

12:40 – 13



Lunch

13 – 14



New Member Intro

14 – 14:05

Reconomy
Group



Creating a truly sustainable world



Providing critical links to enable a circular economy

We're an innovative, tech-led provider of outsourced services enabling businesses around the world to improve their ESG outcomes through three main verticals:

Recycle

Tech-enabled total waste and resource management services

01

Comply

Global environmental compliance and sustainability consultancy

02

Re-use

Sustainable omnichannel product returns and intelligent logistics

03

Construction



Business & Industry





Locations

- Key:
- Recycle
 - Comply
 - Re-use



Our all-star recycle line-up

Top waste and resource management brands, all seamlessly integrated and with shared values.



The UK's largest provider of outsourced waste & resource management services, working with businesses of all sizes in all sectors to solve their specific challenges and move them toward zero waste.



WasteSource

Providing scalable waste collection, recycling and disposal services to the retail and hospitality sectors through an accredited network.



EcoVend

Reverse Vending Machines (RVMs) that offer the cleanest loop recycling available and can be used for customer rewards or as part of a Deposit Return Scheme (DRS).



Rapid response waste collection, disposal and recycling, giving you all the advantages of a local provider with the reach, size, expertise and value of a national operator.



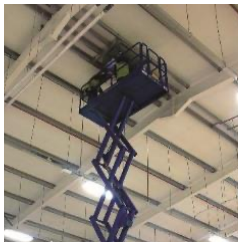
Dependable, great-value reprocessing services for many different kinds of plastics, metals, card, paper and more – including closed-loop supply and reclamation.



Supplying and maintaining innovative on-site recycling equipment that enhances your waste management performance and financial return.



A comprehensive range of tool, equipment, and plant hire services with the added dimension of waste management expertise.



Operating two state-of-the-art UK facilities that provide specialist sortation services for mixed recyclables, producing TEEP compliant outputs.



A well-established commercial training company, providing training for industry and construction.



Three's company in compliance

Our world-leading brands offer complete peace-of-mind, both environmentally and commercially.



Making compliance simple and easy through innovation, data and analysis, with an unshakeable commitment to a more profitable, more sustainable, waste-free world.



A strategic partner for manufacturers, retailers and governmental organizations, RLG monitors legislation, manages product data and fulfils reporting requirements to ensure environmental compliance for its customers.



Tailored solutions to help customers meet all compliance needs, with a specialist dual system for sales and transport packaging.



Three times the know-how

Our world-class sustainable returns and logistics brands.



Helping retailers manage global omnichannel returns smarter and more sustainably through tech, innovation and clever thinking, while simultaneously enhancing the customer experience.



A unique intelligent supply chain model that unlocks new, sustainable opportunities for customers. Removing complexity, reducing costs and increasing speed to market.



reconomygroup.com

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+44 (0)1952 292 000

Contact



Legislation update

14:05 – 14:25

RECYCLING ASSOCIATION

Legal update

Ellie Reeves

15 March 2023



“On average people now consume around 5 grammes of microplastics a week.”

PHILIP DEMOKRITOU, RUTGERS UNIVERSITY

Global issues

Bloomberg the Company & Its Products | Bloomberg Terminal Demo Request | Bloomberg Anywhere Remote Login | Bloomberg Customer Support

Bloomberg UK

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Green
Greener Living

Pain in the Butt: Study Finds Forever Chemicals in Toilet Paper

A new report finds concentrations of PFAS in toilet paper and suggests the bathroom staple may be a source of the chemicals in wastewater.



Markets at a Glance

Americas | Europe | APAC | You

Dow Jones 31



UN environment programme

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Science & Environment

Plastic pollution: 'Hidden' chemicals build up in seabirds

31 January 2020 · Comments

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PLOS ONE

OPEN ACCESS | PEER-REVIEWED

RESEARCH ARTICLE

A growing plastic smog, now estimated to be over 170 trillion plastic particles afloat in the world's oceans—Urgent solutions required

Marcus Eriksen, Win Cowger, Lisa M. Erdle, Scott Coffin, Patricia Villarrubia-Gómez, Charles J. Moore, Edward J. Carpenter, Robert H. Day, Martin Thiel, Chris Wilcox

Published: March 8, 2023 · <https://doi.org/10.1371/journal.pone.0281596>

Article	Authors	Metrics	Comments	Media Coverage

Who we are | Where we work

Home / News, Stories & Speeches / press release

02 MAR 2022 | PRESS RELEASE | ENVIRONMENTAL RIGHTS AND GOVERNANCE

Historic day in the campaign to beat plastic pollution: Nations commit to develop a legally binding agreement



ASHURST

87

Bigger picture: net zero transition plans

TPT CONSULTATION: DISCLOSURE FRAMEWORK AND IMPLEMENTATION GUIDANCE

Scope and purpose	Transition Plan content	Implementation Guidance	Timetable
Listed companies and regulated firms A transition plan is integral to an entity's overall strategy, setting out its plan to contribute to and prepare for a rapid global transition towards a low GHG-emissions economy <u>Guidance: TCFD Guidance on Metrics, Targets, and Transition Plans</u> See https://transitiontaskforce.net/	A company's high-level strategy to mitigate, manage and respond to changing climate, including greenhouse gas reduction targets or a net zero commitment The actions the company plans to take to achieve its ambitions and how they will be financed Governance and accountability mechanisms to support the plan Measures to address material risk and leverage opportunities	Key steps for preparing TPs, incl. how and where they should be published • Published as a standalone document, alongside the ARA • Updated every three years (or earlier if they change significantly) • Progress against TP to be reported on an annual basis as part of TCFD-aligned financial disclosures in the annual report	• 28 February 2023 - consultation closes • Summer 2023 - Final Disclosure Framework and Implementation Guidance • End 2023 - More detailed sector guidance • 2023 to 2024 - FCA will strengthen disclosure rules for listed companies and regulated firms to introduce TPs and to reference the final ISSB standards (once adopted in the UK)



'High quality Transition Plans are crucial for the transition to net zero. Credible TPs create transparency and accountability for companies and financial institutions to meet their net zero targets, and will enable investors to make better informed capital allocation decisions.'

TPT Press Release, 8/11/22

Bigger picture: mandatory climate reporting

New mandatory climate-related reporting

Large (with > 500 employees) 'traded', AIM and private companies + LLPs

Mandatory climate-related reporting - TCFD aligned disclosures

To be made in '**Non-Financial and Sustainability Information Statement**'

Financial periods beginning on or after **6 April 2022**

Bigger picture: narrative reporting

EU CSRD AND CSDD

Corporate Sustainability Reporting Directive (CSRD)	Corporate Sustainability Due Diligence Directive (CSDD)
What? Revises 2014 Non-Financial Reporting Directive to introduce more detailed reporting requirements on sustainability issues, incl. environmental, social and human rights and governance factors To be disclosed in annual report, with certification requirement When and who? CSRD will apply to all large companies, whether listed or not. Non-EU companies with substantial activity in the EU (with an EU turnover over €150m) and with a subsidiary or branch in the EU will have to comply. Proposed timetable for application: • EU companies already subject to NFRD – listed companies (financial periods beginning on or after 1.1.24) • 'Large EU companies' (defined) not currently subject to NFRD (1.2.25) • Listed EU SMEs and others (1.1.26) • Non-EU companies (1.1.28)	What? Requires in scope companies to identify, prevent, end, or mitigate adverse human rights and environmental impacts arising from operations, incl. those of subsidiaries and direct or indirect business relationships in value chain. Requires a due diligence policy and appropriate due diligence measures to: • Identify, prevent and mitigate adverse impacts; • establish and maintain a compliance procedure; • monitor effectiveness of due diligence policy and measures; and • report on due diligence When and who? Implementation date to be determined. Currently applicable to 'large EU companies' and also large non-EU companies 'active' in the EU meeting a certain turnover thresholds (€150m EU turnover; or over €40m EU turnover provided >50% of net worldwide turnover is in certain sectors, incl. textiles, agriculture, food, mineral extraction, metal production) Current status? Proposed directive issued in February 2022. Subject to adoption by Commission and approval by both Commission and Parliament

ashurst

Greenwashing

Opinion **Inside Business**

Danone lawsuit could be test case for new war on plastics

Three environmental groups are suing the producer of Evian water and Activia yoghurt

PEGGY HOLLINGER [+ Add to myFT](#)



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Peggy Hollinger JANUARY 18 2023 63

Danone just can't seem to do right for doing wrong. Two years ago, activist investors helped to oust the chief executive of the bottled water and dairy company, claiming he had put too much emphasis on the pursuit of environmental and social sustainability compared with financial performance.

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Business

Keurig Canada fined \$3 million for misleading claims over coffee pod recycling



K-Cups aren't widely accepted for recycling in any province except Quebec and B.C.

The Canadian Press - Posted: Jan 07, 2022 10:27 AM EST | Last Updated: January 7, 2022



Competition

Open consultation

Draft guidance on environmental sustainability agreements

From: [Competition and Markets Authority](#)

Published 28 February 2023

 [Get emails about this page](#)

Summary

The CMA is consulting on draft guidance on the application of the Chapter I prohibition in the Competition Act 1998 to environmental sustainability agreements between businesses operating at the same level of the supply chain.

This consultation closes at
5pm on 11 April 2023

Consultation description

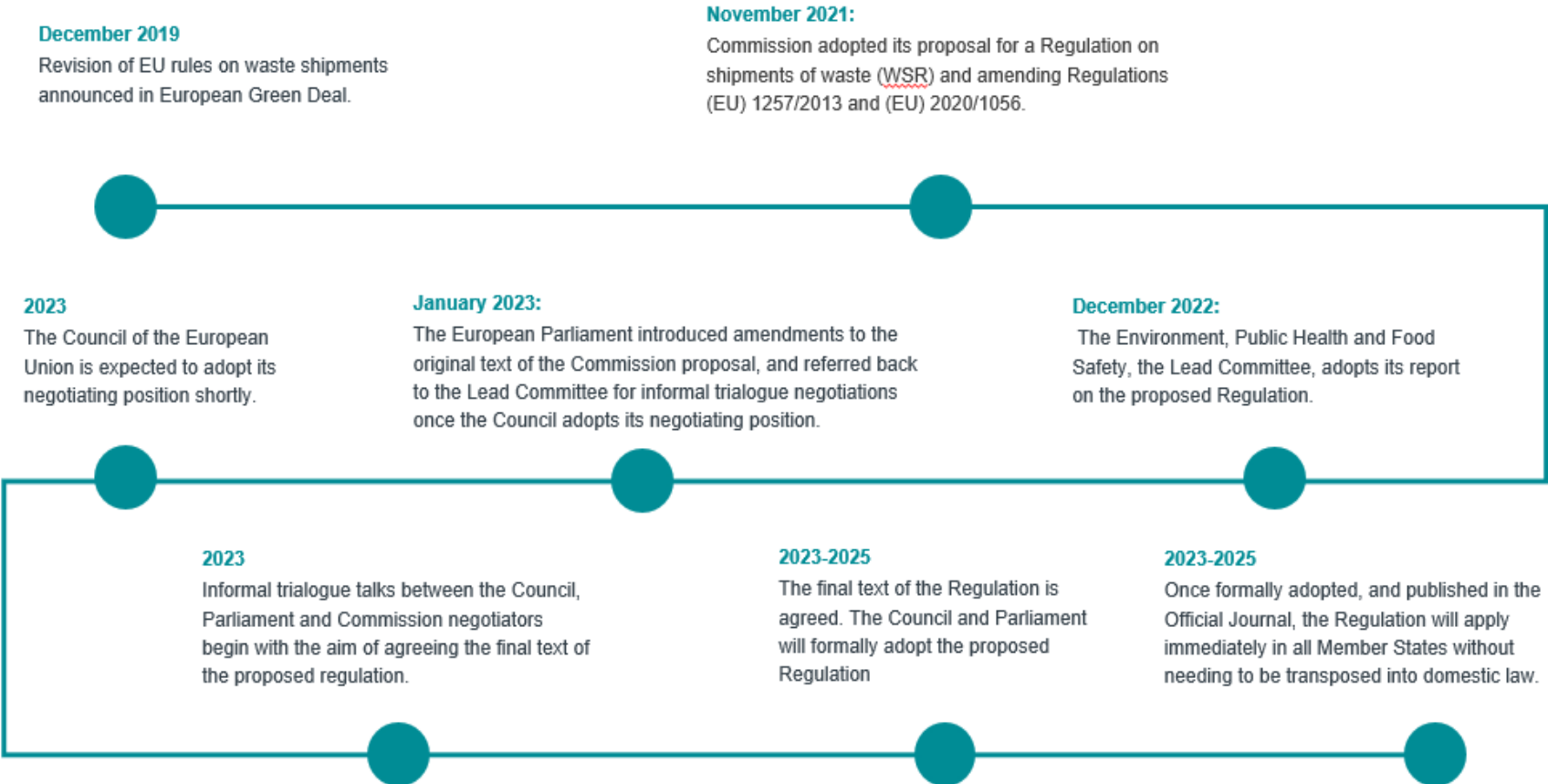
The CMA is consulting on draft guidance on the application of the Chapter I prohibition in the Competition Act 1998 to agreements between competitors or potential competitors in relation to environmental sustainability



When Chilling Contributes to Warming

How Competition Policy Acts As a Barrier to Climate Action¹

On the horizon - EU revised waste shipments regulation



On the horizon - UK bans and EU targets

Environment Act 2021 c. 30 s. 62 Transfrontier shipments of waste

62 Transfrontier shipments of waste

(1) Section 141 of the Environmental Protection Act 1990 (power to prohibit or restrict the importation or exportation of waste) is amended in accordance with subsections (2) to (8).

(2) In the heading—

(a) for "prohibit or restrict" substitute "regulate";

(b) after "waste" insert "or the transit of waste for export".

(3) For subsection (1) substitute—

"(1) The Secretary of State may, by regulations, make provision for, about or connected with the regulation of the importation or exportation of waste or the transit of waste for export.

(1A) Provision that may be made in regulations under this section includes provision prohibiting or restricting—

(a) the importation of waste;

(b) the landing and unloading of waste in the United Kingdom;

(c) the exportation of waste;

(d) the loading of waste for exportation;



Law In Force

Version 1 of 1

24 January 2022 - Present

Subjects

Environment

Table of Contents



English EN

Home > Press corner > European Green Deal: Putting an end to wasteful packaging

Available languages: English

Press release | 30 November 2022 | Brussels

European Green Deal: Putting an end to wasteful packaging, boosting reuse and recycling

Page contents

Top

Quote(s)

Related media

Print friendly pdf

Press contact

Today, the Commission is proposing new EU-wide rules on packaging, to **tackle this constantly growing source of waste** and of consumer frustration. On average, each European generates almost 180 kg of packaging waste per year. Packaging is one of the main users of virgin materials as 40% of plastics and 50% of paper used in the EU is destined for packaging. Without action, the EU would see a further 19% increase in packaging waste by 2030, and for plastic packaging waste even a 46% increase.

The new rules aim to stop this trend. For consumers, they will ensure **reusable packaging options, get rid of unnecessary packaging**, limit **overpackaging**, and provide **clear labels** to support correct recycling. For the industry, they will create **new business opportunities**, especially for smaller companies, decrease the need for **virgin materials**, boosting Europe's recycling capacity as well as making Europe less dependent on primary resources and external suppliers. They will put the packaging sector on track for **climate**

On the horizon - end of waste?..



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A dry pulp mill for the UK

14:25 – 14:45

ECOLOGICAL SHANYING
CENTENNIAL FOUNDATION

生态山鹰·百年基业

UK Recycle Pulp Project

Background and Review

- Green Fence + National Sword+ Blue Sky
 - End of 2020— no more imported recycle paper to China;
 - From 2020 to 2022: Recycle Pulp imported to China: mt
 - 2020 1.79 million
 - 2021 2.45 million
 - 2022 2.88 million
 - From 2020-2022: Finished paper imported to China: mt
 - 2020: 3.96+4.03 million
 - 2021: 3.02+3.98 million
 - 2022: 2.42+ 3.64 million
 - Domestic Recycle Paper: 2020-2022- 55-58-62 million mt

1、China import statistics

Paper Type (K MT)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Testliner 2022	282.30	236.00	306.60	262.50	274.20	287.20	304.50	308.10	292.80	304.70	391.90	389.90	3,640.70
medium2022	186.00	175.90	193.90	178.60	219.00	226.60	172.20	166.60	228.40	209.10	241.60	230.50	2,428.40
Testliner 2021	330.60	242.80	459.00	357.40	316.40	308.40	316.70	306.50	343.75	285.18	387.58	333.80	3,988.10
Medium 2021	320.70	180.20	329.10	282.10	194.00	194.40	218.40	247.91	285.22	230.34	324.01	221.50	3,027.88
Testliner 2020	243.20	243.15	394.60	317.90	253.70	292.20	341.20	344.30	402.20	413.40	417.30	371.00	4,034.15
Medium 2020	231.80	231.80	325.80	270.80	218.00	292.40	380.70	378.60	452.50	410.10	423.30	348.80	3,964.60

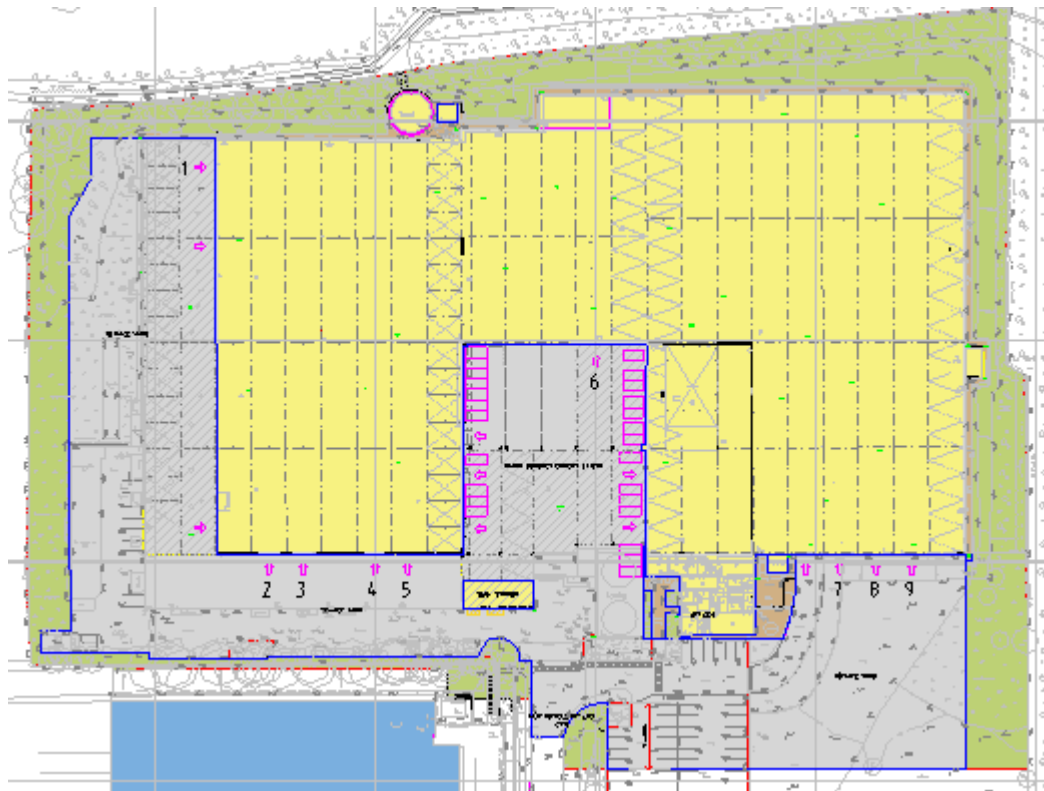
2. RCP Capacities in SEA

Country	Company	Capacity (K MT)	Material
Thailand	Golden dragon	360	AOCC
	Lee & Man	400	AOCC
	Sunshine	50	AOCC
	Kangning	400	AOCC/EOCC/MIX
	Fuyou	600	AOCC
	Jiansen	300	AOCC
	RICH	300	AOCC
	Taishan	200	AOCC
	TFL	100	AOCC
	Kaituo	60	AOCC
	Tianli	60	AOCC
	Zhongxing	40	AOCC
Indonesia	Lee & Man	200	AOCC/EOCC/JOCC/Local OCC
	HOK SENG	50	AOCC/Local OCC
	KTB	40	AOCC/Local OCC
Malaysia	Nine Dragon	300	AOCC
	Lee & Man	400	AOCC
	Jingxing	800	AOCC
	Xinshenda	120	AOCC
	Unknown	30	AOCC
	Unknown	30	Local OCC
Laos	Sun Paper	400	AOCC
Taiwan	Tailida	120	AOCC
Vietnam	Unknown	60	AOCC
Total		5,420	

3、 Introduction of Telford Project

Overview of the Telford Facility

- Site Statistics



Site Size: 187,000 sq / ft covered
5 acres Total

Program of refurbishment commence June 2021

Oct 2021 Started installing
Aug 2022 Hot commissioning
Nov 2022 Trial production

Overview of the Telford Facility

- Site statistics / Parameters

General Information:

- Working hours 24/7 - 365 days
- Daily exp operating hours – 22h (2h scheduled maintenance)
- Exp hourly input – 30t
- Exp daily input – 660t
- Exp hourly output – 29.4t (2% contamination)
- Exp daily output – 646.8t
- Exp daily production waste generation – 13.2t (mainly metal and plastic) 92.4Ts per week

Overview of the Telford Facility

- Site statistics / Parameters
 - Raw material (Input):
 - Exp average raw material bale weight – 450kg
 - Exp hourly input rate – 34 bales per dewiring unit, 2 total
 - Exp input frequency – 1.76min (105sec) per bale per dewiring unit, 2 total

Overview of the Telford Facility

- Site statistics / Parameters
 - Finish Product (Output):
 - Bale size – 1100(W)* 1850(L) * 1200(H)
 - Average bale weight – 1100kg
 - No. of bale per container – 22
 - Exp hourly output rate per baler (2 total) – 13.6 bales
 - Exp output frequency per baler (2 total) – 4.41.min per bale

Overview of the Telford Facility

- Site statistics / Parameters

Deliveries:

- Exp average raw material delivery payload – 24t
- Exp daily no. of deliveries – 28

Collections:

- No. of bale per collection/container – 22
- Exp average container payload – 25t
- Exp daily no. of collections/exchange – 26
- Total bale transfer per day – 572

Overview of the Telford Facility

- Equipment



Overview of the Telford Facility

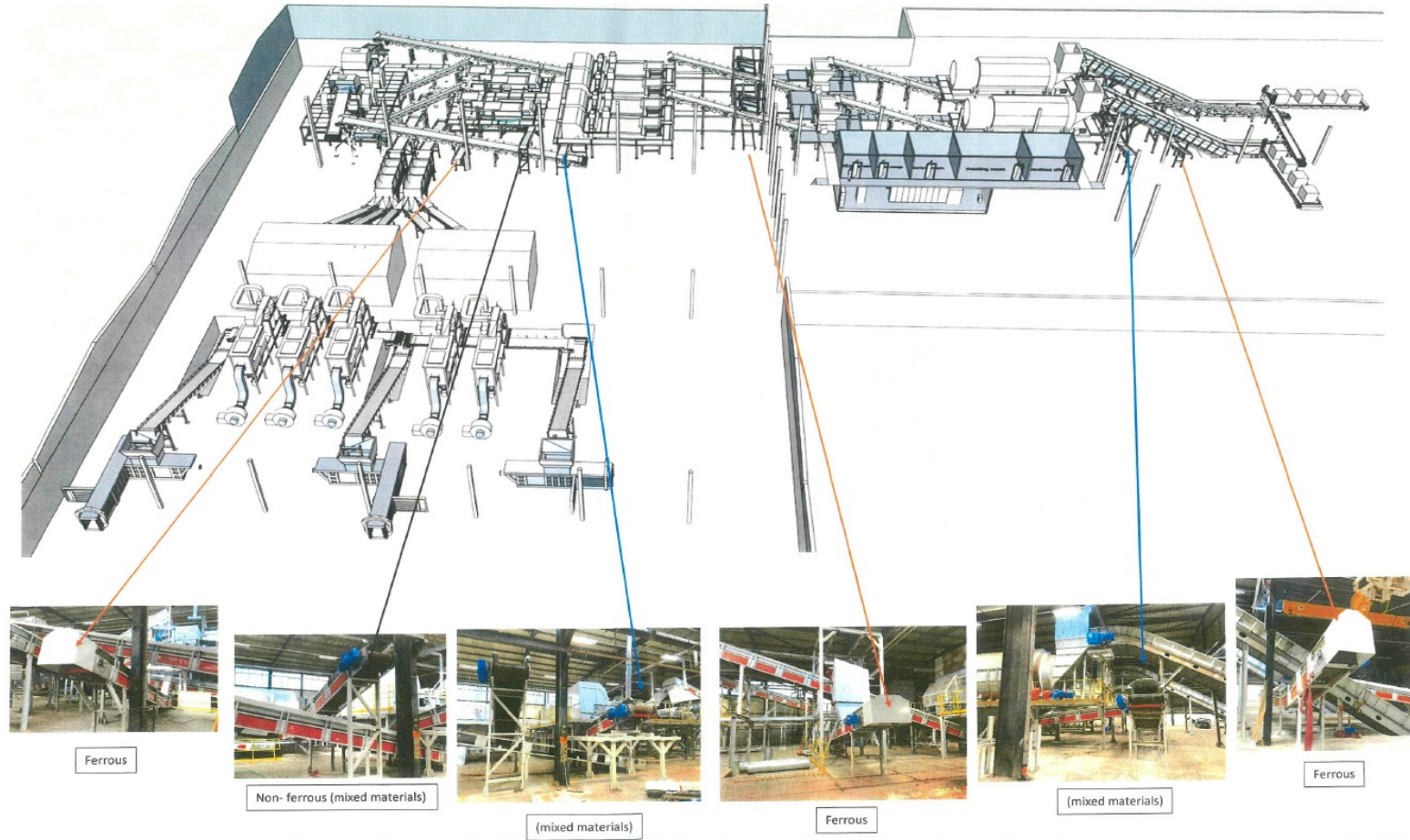
- Equipment



73 CCTV cameras
monitoring process line
and site

Overview of the Telford Facility

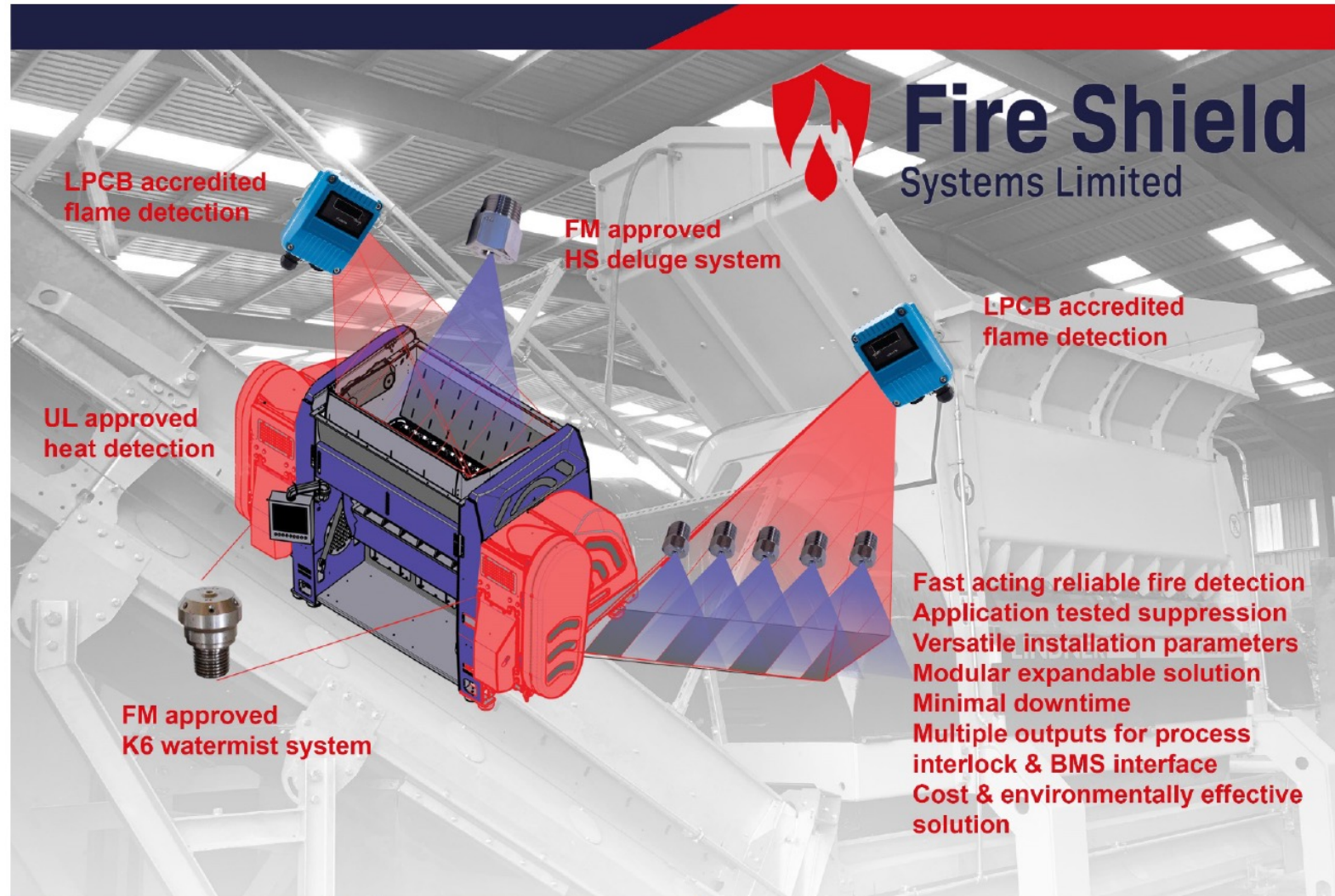
- Process line flow
 - Waste streams



Overview of the Telford Facility

- Fire Suppression system

<https://vimeo.com/575767597>



Overview of the Telford Facility

- Fully integrated Dust extraction / Separation system



Individual Dust separation systems for the two Secondary Shredders and five final grinders

Main Dust separation system extracting from Trommel – Primary Shredder – Tomra / acceleration belt unit – magnetic separator/ Eddy current unit – accumulation warehouse – conveyor transition points



Forecast--A imperfect but reasonable solution

- China is unlikely open the gate to import waste paper again;
- Recycle Pulp quality control getting easier
- More finished paper from South Asia imported to China with the lower tariff;
- China waste paper price will keep a low price level, quality unstable;
- Recycle Pulp technology diversified--- wet pulp with new tech and targeted market
- Recycle pulp end market diversified ---Central semi-finished product for non-China small mills– Celadon

以纸为媒 让生活更美好

BETTER PAPER BETTER LIFE

Shanling hopes to create more paper products that are closely related
to people to build a better life by taking paper as a link.

Thank you

CYCLE LINK UK laie@cyclink.com 00447972899962



Plastic chemical recycling

14:45 – 15:45



What Difference will Advanced Recycling of Plastic make?

Dr. Geoff Brighty, Chief Sustainability Officer

The Recycling Association

15th March 2023



Agenda and Overview

1. The Plastic Challenge
2. Advanced Recycling Definition
3. Accelerating Circular Chemical Economy at Industrial Scale
4. The Game Changing Innovation “Supercritical” Water
5. Feedstock Materials
6. HydroPRS™ Commercial Products
7. Wilton Site Development
8. Difference – Decarbonisation
9. Difference – Circularity
10. Enabling a Circular Plastic Economy for Flexible Packaging



The Plastic Challenge



Globally, **only 9%** of plastic produced has ever been recycled...



...with the rest being sent to landfill...

or incineration¹



Approximately **8 million tonnes** of waste plastic enter the oceans every year²



The Market Value of global plastics is estimated to reach **\$750billion** per year by 2025³. \$120billion is lost through plastic waste annually⁴



1. Production, Use and Fate of All Plastics Ever Made. Science Advances Research Article. Asci. Adv. R. Geyer, J.R. Jambeck, K.L Law - 2017

2. The Ellen McArthur Foundation – The New Plastics Economy: Catalysing Action – 2017

3. Statista - 2019

4. World Economic Forum - 2019

Advanced Recycling Definition



CRE's definition of Advanced recycling explicitly addresses the aspect of circularity:

1. any reprocessing technology that directly affects either the formulation of the polymeric waste or the polymer itself: and
2. converts them into chemical substances and/or products whether for the original or other purposes, **excluding energy recovery**.

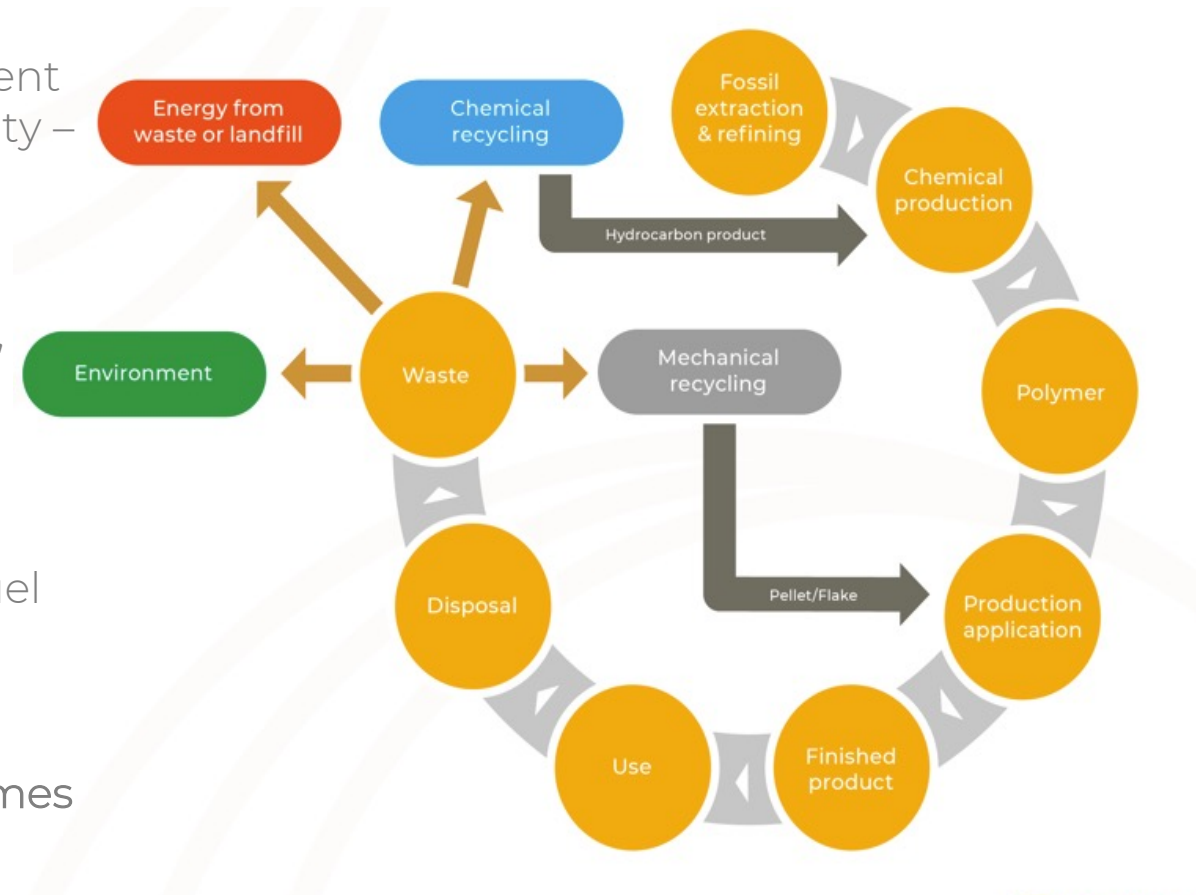
The definition aligns with and delivers the ambitions of

UNSDG12 'Responsible Consumption and Production' through the circular economy.

Mura: Accelerating Circular Chemical Economy at Industrial Scale

Key principles:

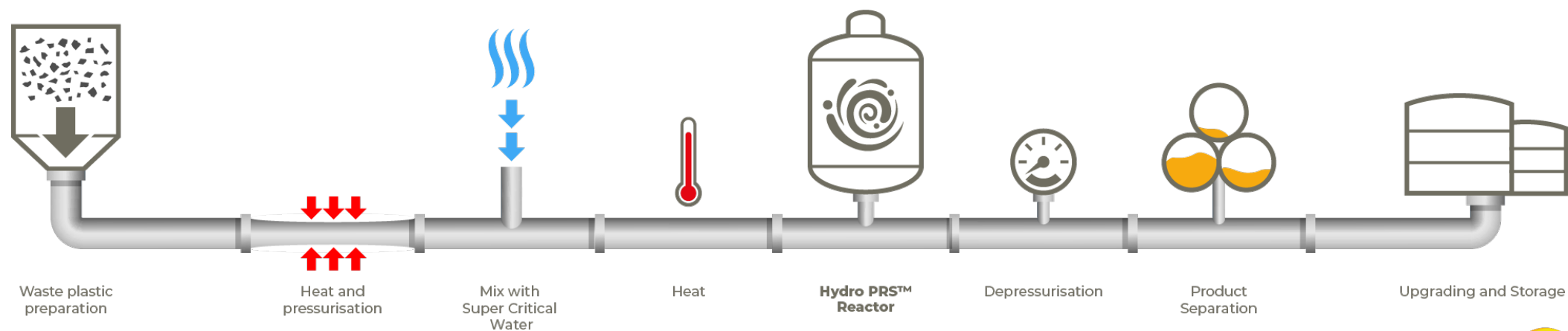
- Complementing existing, effective, waste management systems and value chains to enhance system circularity – e.g. UKPP targets
- Demonstrating reduced carbon (and environmental) footprint over current linear plastic and fossil systems, through independent LCA
- Demonstrating material to material applications
- Transforming plastic into recyclable material – **NOT** fuel or energy
- Verifying provenance of recycled content through a credible 'chain of custody' through certification schemes and standards



The Game-Changing Innovation: 'Super Critical' Water



HydroPRS Chemical Recycling Process



Feedstock materials

Target material:

- Mixed post-consumer plastic packaging – films and rigids
- Material that cannot be mechanically recycled
- MRF rejects and AD residues
- Plastics that otherwise go to energy recovery or landfill

Polymers:

- PE (HD/LD), PP, (polyolefins)
- Multi layer plastics with high PE or PP content
- Some PET, PS can be accepted as part of a PE/PP rich feedstock

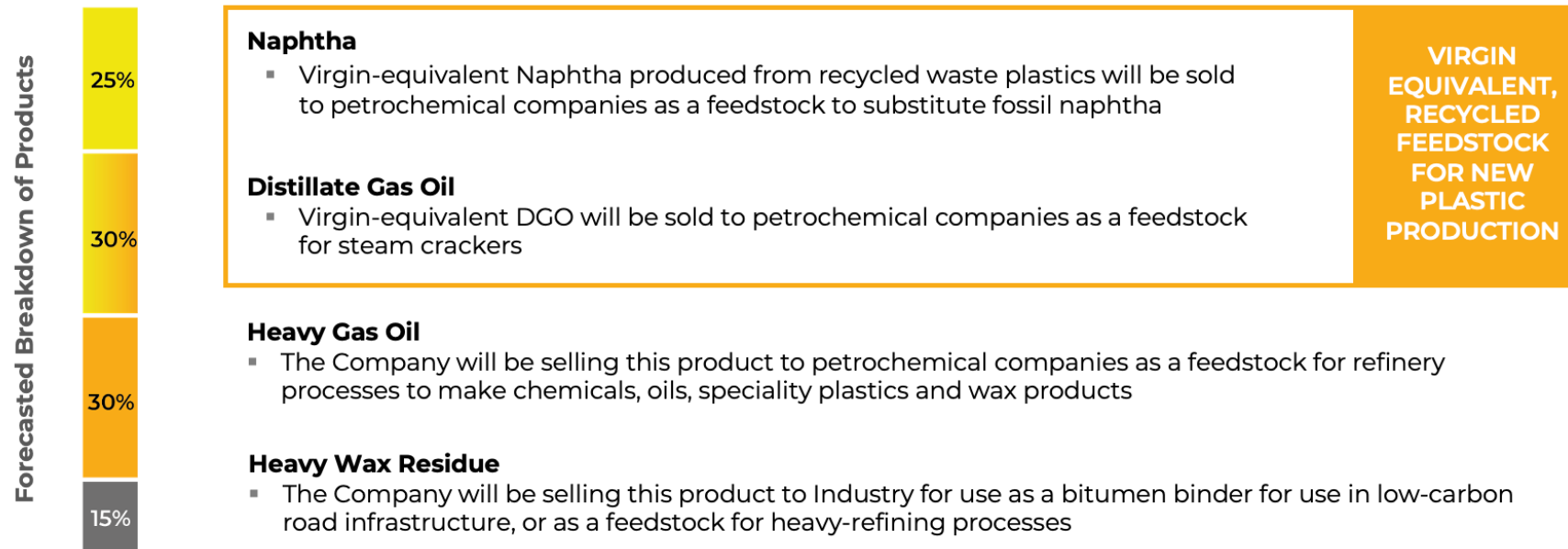
Able to recycle:

- Mixed plastic streams without the need for segregation
- Multi-layered, complex plastic materials
- Greater tolerance for non target polymers and organic contamination than typical pyrolysis processes

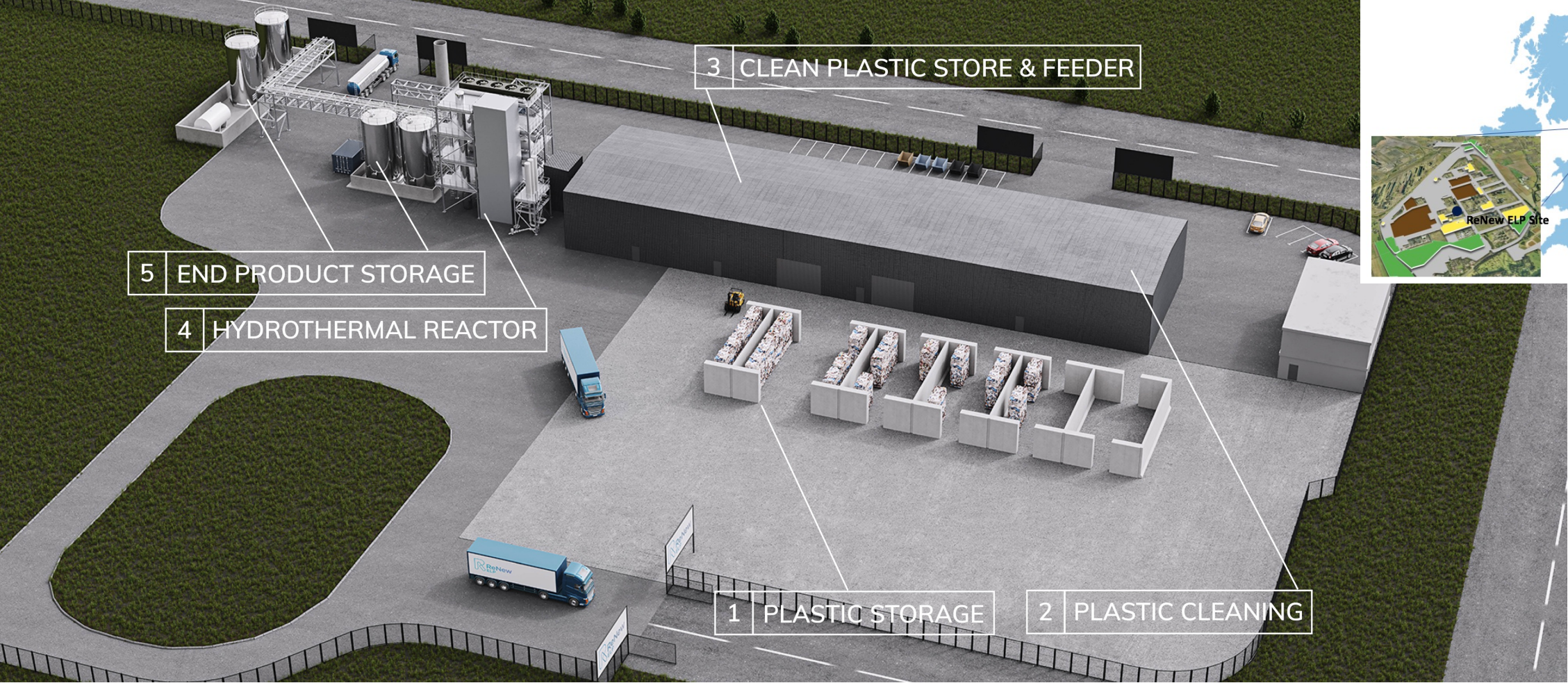


HydroPRS™ Commercial products: Versatile liquid hydrocarbons with many applications

HydroPRS™ outputs a range of valuable hydrocarbon products – **each can be tailored to meet market requirements** and conditions. These products will be sold on long-term contracts.



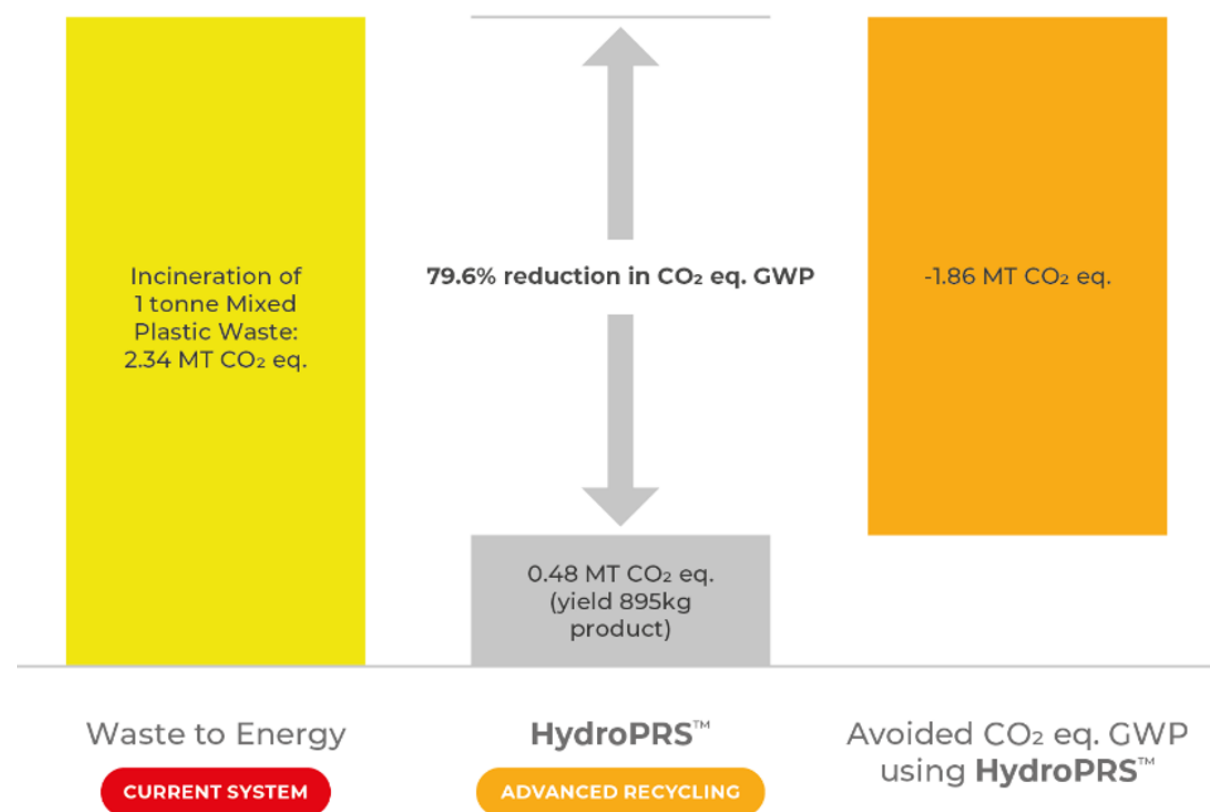
Wilton Site Development



Difference - *Decarbonisation*

Diverting waste plastic away from energy recovery to Advanced recycling **avoids emissions** of over **1.8t CO₂ eq Global Warming Potential**

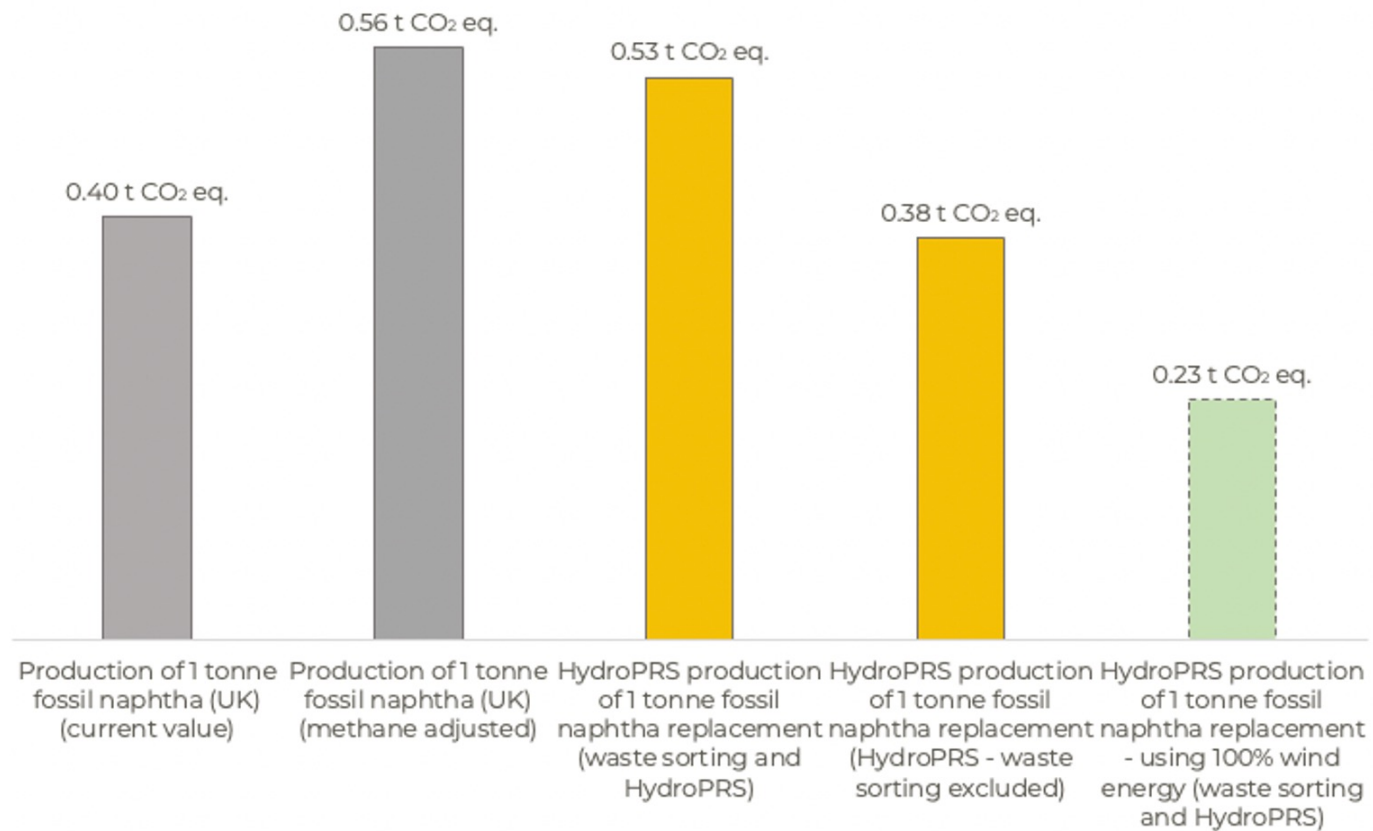
Figure 1: GWP (Global Warming Potential) Impact from Processing 1 Tonne Mixed Plastic Waste (Tonnes CO₂ eq. GWP)

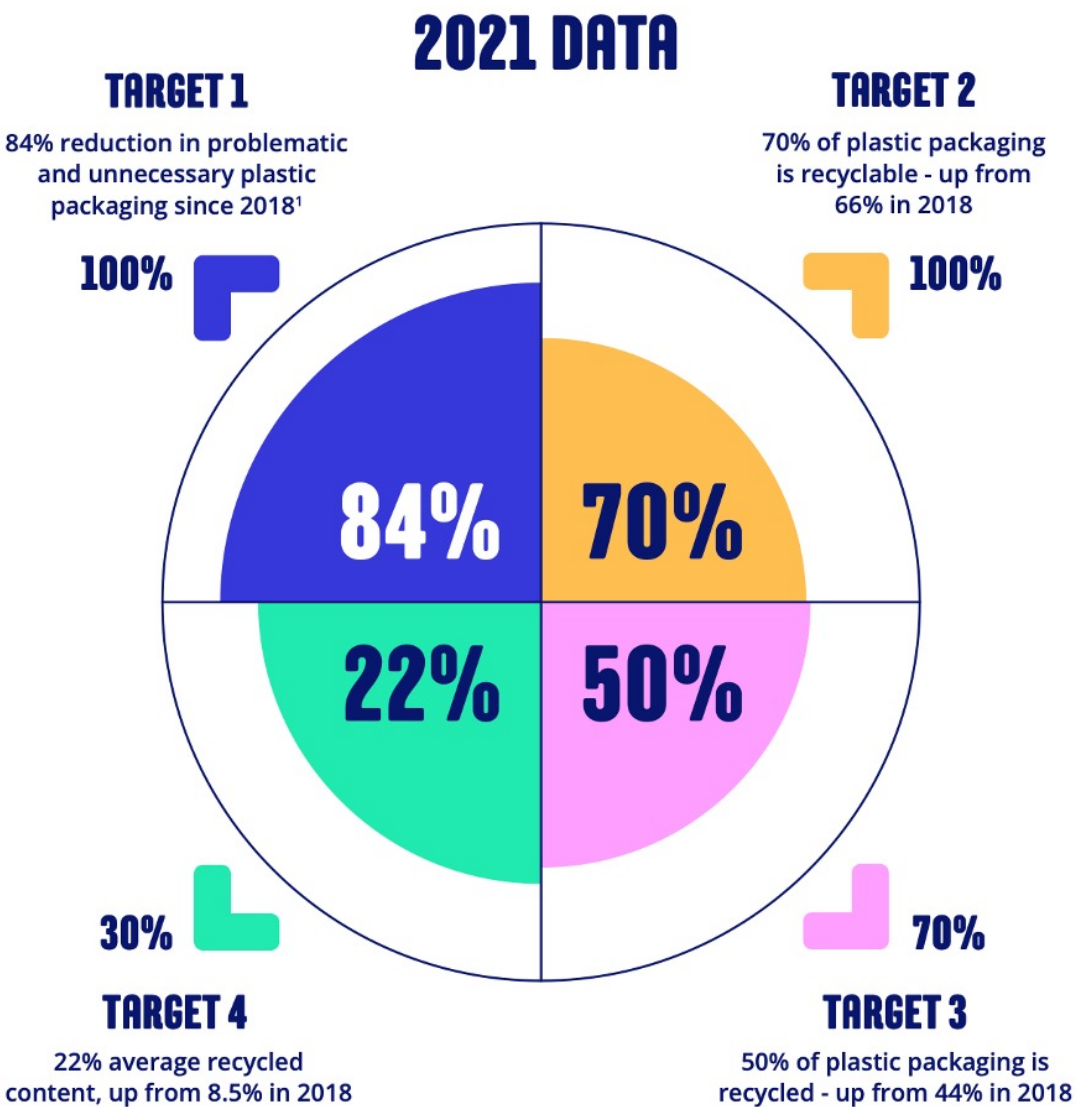


Difference - *Decarbonisation*

Processing residual waste plastic creates **equivalent to lower carbon products** compared with fossil equivalents

Figure 2: GWP Impact from Production of 1 tonne of Naphtha Replacement
(tonnes CO₂ eq GWP, per tonne of product)





TARGETS TO 2025

106 full business members, **35 associates** and **48 supporters** have committed to four ambitious targets. By 2025:

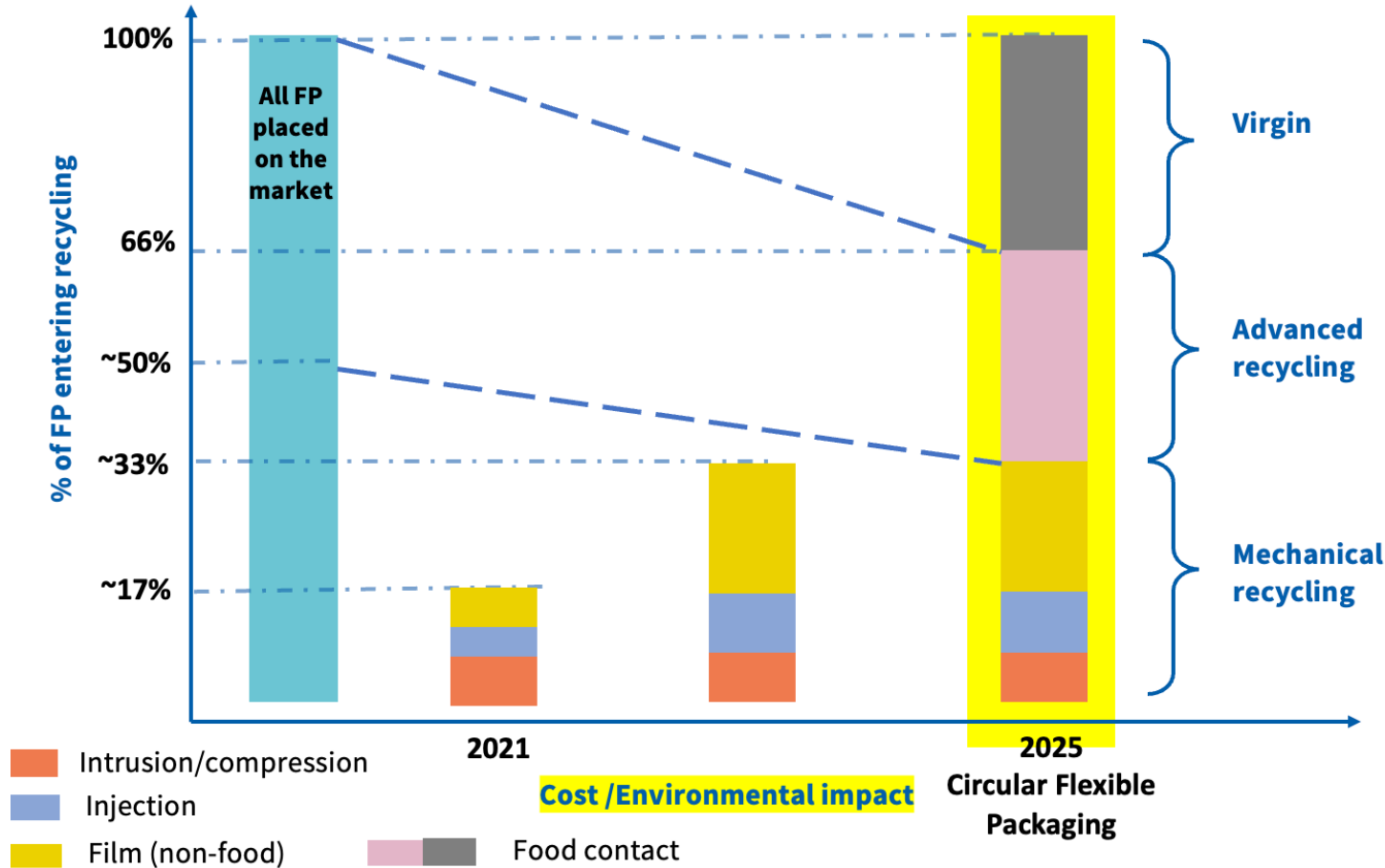
- TARGET 1**
Eliminate problematic and unnecessary single-use plastic.
- TARGET 2**
100% of plastics packaging to be reusable, recyclable or compostable.
- TARGET 3**
70% of plastics packaging effectively recycled or composted.
- TARGET 4**
30% average recycled content across all plastic packaging.

View the full list of members [here](#).

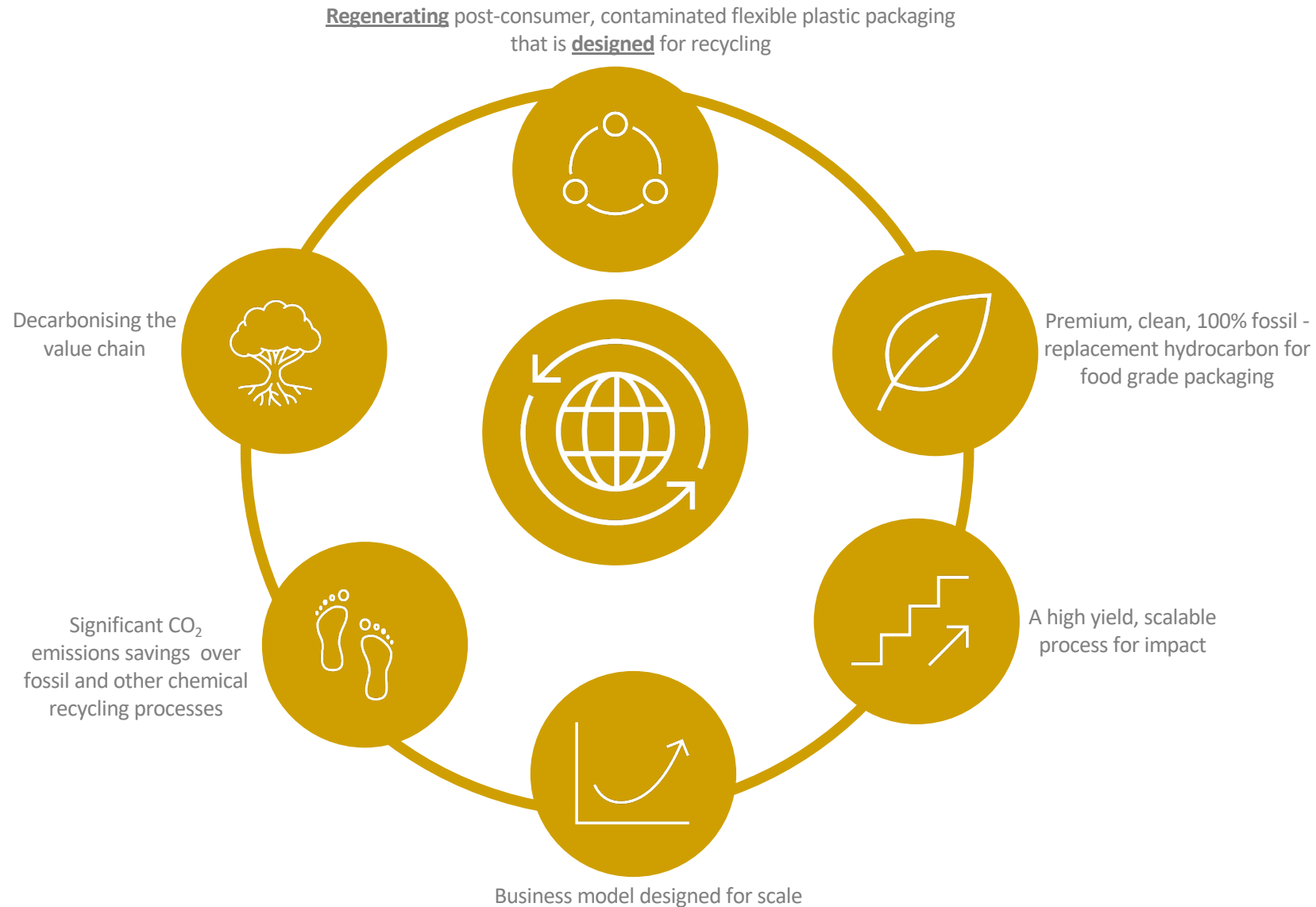
¹ Based on members who reported in both 2018 and 2022 to provide a meaningful data comparison

Difference - Circularity

Advanced Recycling will need to process **c50%** of waste flexible plastics to enable the EU to meet its recycling targets under Packaging and **Packaging Waste Regulations (2023)**



Enabling a Circular Plastic Economy for Flexible Packaging





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Q&A

15:05 – 15:20



Coffee

15:35 – 15:50



Market discussion

15:35 – 16:30



Wine reception

16:30 – 17:30