YOUR VOICE

bfbi

EPR

Small company reporting requirements

Tom Hare

Valpak

a Reconomy Group company

Valpak – UK's Leading Producer Responsibility Scheme

The UK's first and largest Producer Responsibility Scheme

100% compliance record, over 25 years experience, 200 employees

Working in partnership with Government to improve and develop legislation with the aim of increasing recycling rates

Standards of Excellence

ISO 9001

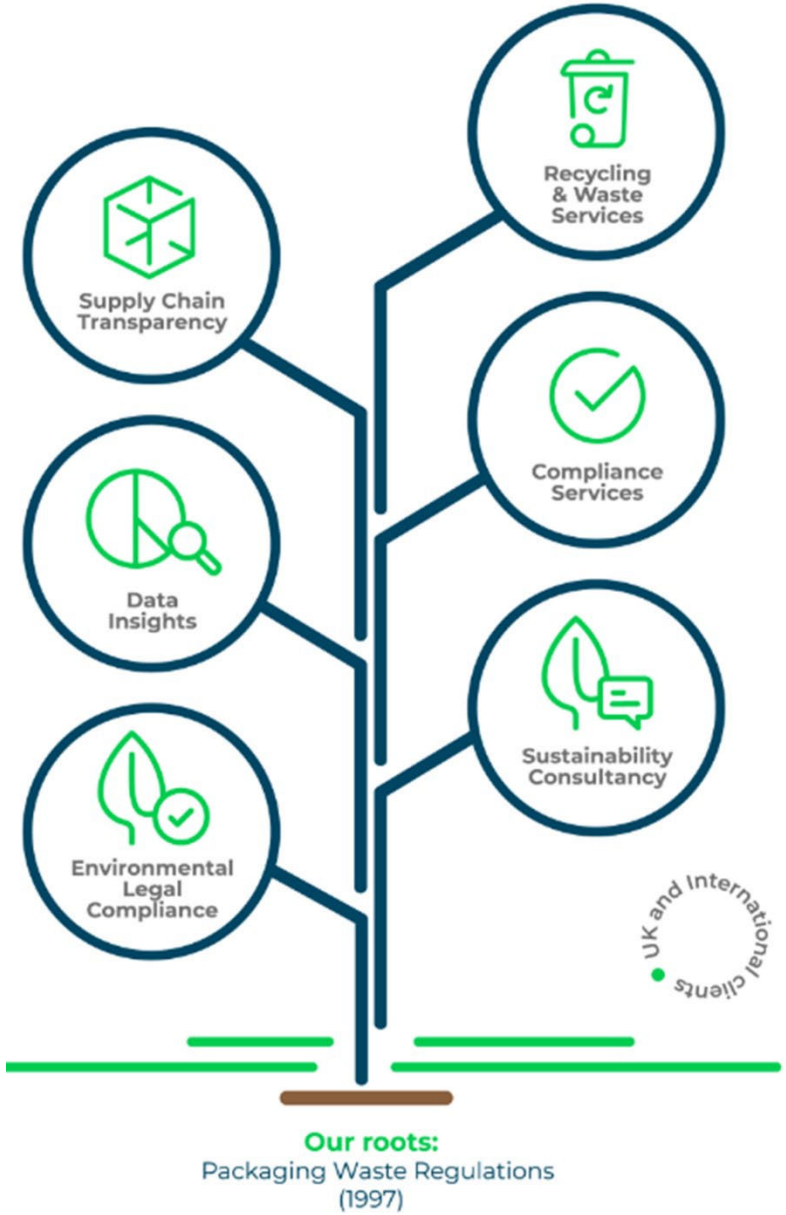
ISO 14001:2015

ISO 27001:2013

OHSAS 18001 Certified Health & Safety Management System

Carbon Neutrality PAS 2060

Zero waste to landfill Certified by Valpak



Our roots:
Packaging Waste Regulations (1997)

Contents

1 Changing to Extended Producer Responsibility (EPR)

2 Current vs future regulations

3 Changes to reporting requirements

4 Timeline of reforms

Timeline of packaging waste legislation

1994	• EU introduces the Packaging Waste Directive
1997	• UK implements the Packaging Waste Regulations
2003	• UK introduces Household Recycling Waste Act
2007	• Amendments to Packaging Waste Regulations
2021	• Government consults on reforms to Packaging Waste Regulations to introduce Extended Producer Responsibility
2024	• Extended Producer Responsibility system introduced

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a Reconomy Group company

EPR – Single Party Responsibility

From 2023 responsibility will shift from a shared point to a single point.

Only one business will be responsible for funding the entire waste management costs for a piece of household packaging

‘Small’ businesses - with an annual turnover between £1 - £2m and handle and supply over 25t of packaging through the UK market yearly OR an annual turnover over £1m and handle and supply between 25t and 50t of packaging through the UK market in a year.

Brand owner

Importer

Pack/filler (unbranded)

Online market place

Supplier to non-obligated businesses

100%

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a Reconomy Group company

Why are reforms taking place?

Current PRN system was established in 1997 to address different objectives & issues to those faced by government and the industry today

Issues highlighted include:

- Inconsistent funding for & performance by those collecting waste
- Regulations do not account for e-commerce boom
- PRN markets can be volatile, with limited revenue usage reporting
- Fragmented consumer communications to drive behaviour
- Insufficient scrutiny of operators & export destinations for waste

The system is being redesigned to make producers more responsible for the costs associated with waste management of packaging they supply

Full Net Cost Recovery

EPR expands producers' responsibility to fund household packaging waste management

£230m

PRN System Revenue 2020 estimate

Annual Industry Contribution

£1.7bn

Government's 1st Year EPR System estimate

Packaging Definitions and Costs

Household

HH-like

C&I

All packaging incurs PRN obligation: price variable contribution to recycling costs

Packaging subject to EPR fees from 2024

Will require reporting of packaging in greater detail

Also subject to EPR fees unless producer can evidence it won't become HH waste

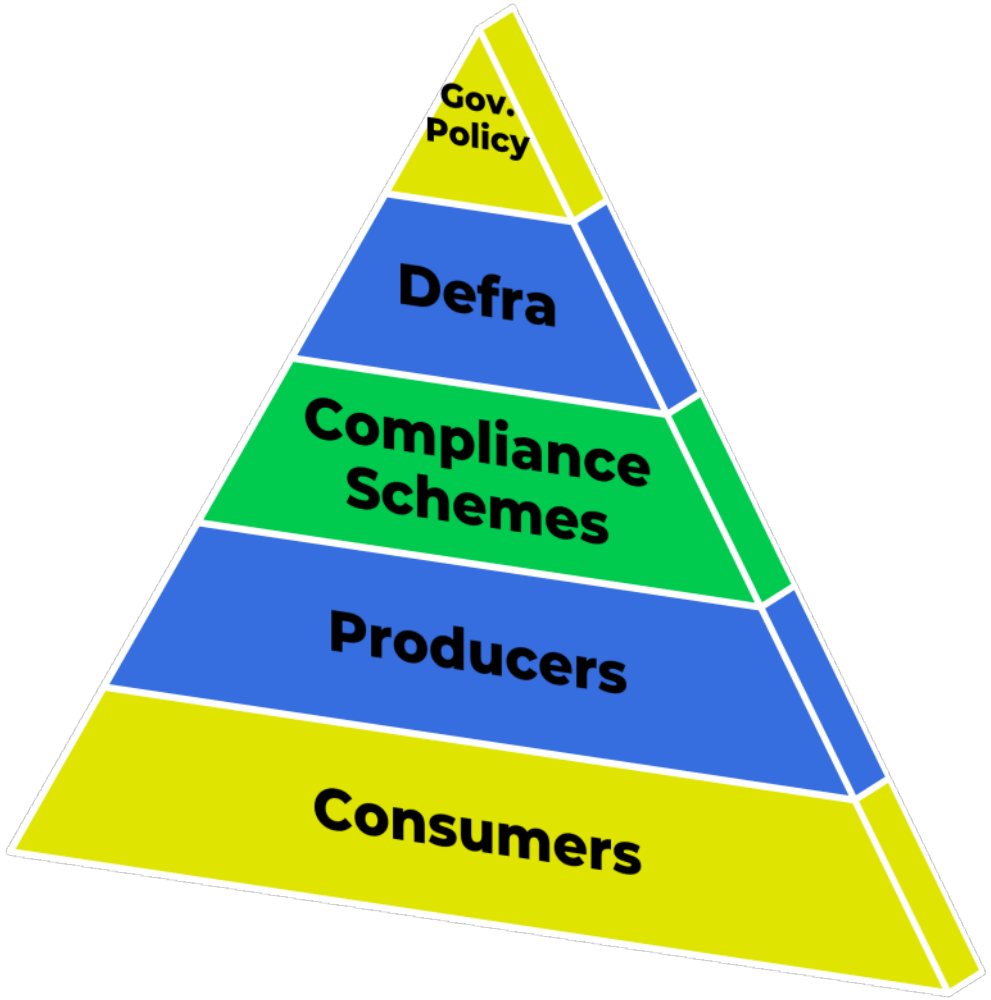
Not subject to EPR fees – PRNs only

Longer term EPR approach still being considered

DRS packaging POM in Eng/Wal/N.Ire subject to PRN and EPR fees until introduction of DRS (TBC)

What is a producer compliance scheme?

- Commonly referred to as ‘Producer Responsibility Organisations’ or PROs abroad.
- Help producers understand and comply with their obligations
- Help government to develop effective and efficient policies
- Help both understand and cooperate for the best possible outcome



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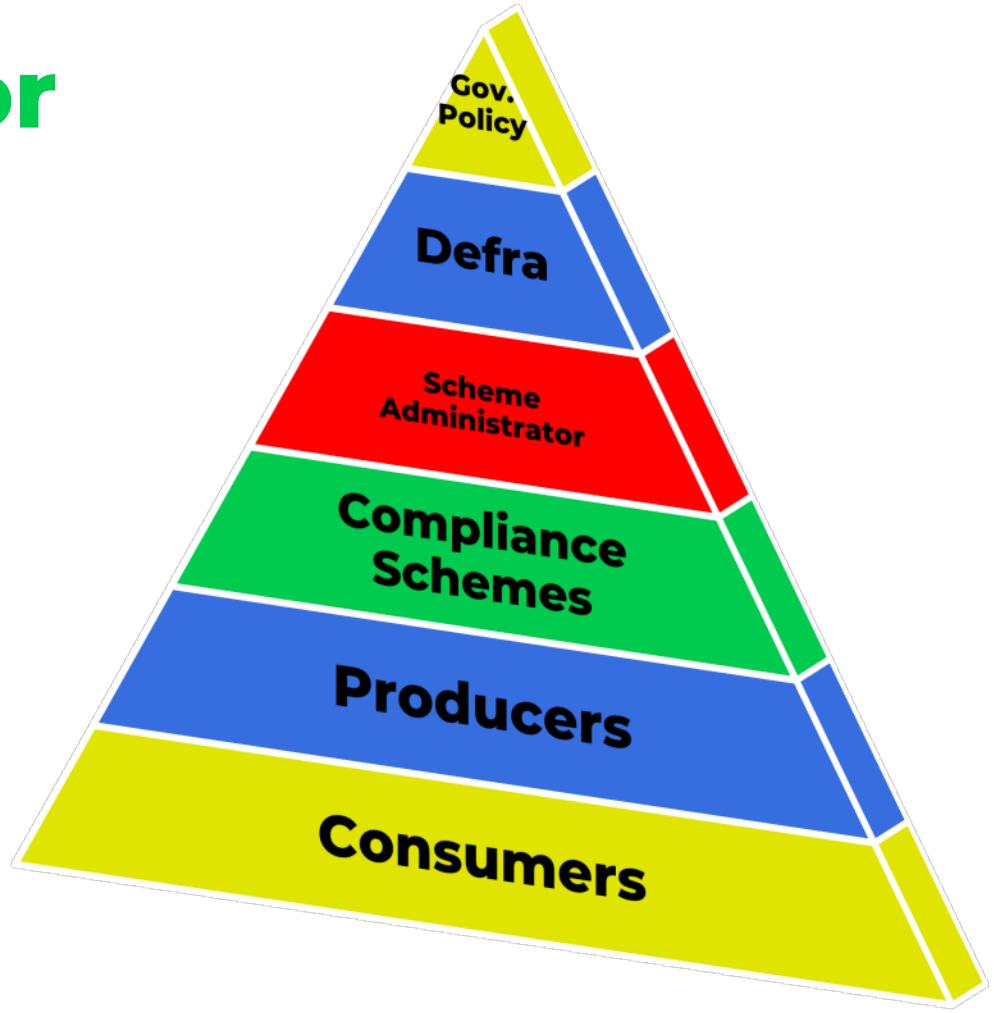
EPR Scheme Administrator

- Will receive EPR data submissions, invoice businesses for EPR payments and redistribute funds to local authorities.
- Also oversees national communications
- Responsibility for determining eco-modulation of fees
- Point of contact for industry and government



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a Reconomy Group company

Shared Producer Responsibility vs. Extended Producer Responsibility

Shared Producer Responsibility (current system)

- Only obligation for large businesses
- Share of responsibility determined by role in supply chain
- Producers contribute to recycling costs through PRNs for all packaging types
- Data reporting annually with limited detail

Extended Producer Responsibility (future system)

- Financial obligation for large businesses, reporting obligation also includes SMEs
- Single party responsibility
- Producers cover full net costs
- More regular and detailed data reporting (+ removal of ‘SME allocation method’)

Data Reporting under EPR

Current reporting requirements

Obligated packaging producers make 1 data submission annually, by the end of April.

Data is reported in the 7 broad material categories*

Data is not captured for non-financially obligated producers

*Paper (incl. card) Glass Steel Aluminium Plastic Wood Other

EPR reporting requirements

Obligated **large producers** will **make 2 data submissions each year**, by the end of April and October respectively.

Obligated SMEs have an annual reporting obligation in the same level of detail as large producers

Data reported in **8 material categories** (fibre-based composites is a new category)

Data reported with in line with **eco-modulation criteria, likely waste stream and presence in street bins & litter**

New data reporting **by nation for sellers**

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Data collection tips

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a Reconomy Group company

Packaging Weights Data Collection

Understand what your obligated activities are

Which products do you need to collect data for?

What are your priority products?

What layers of packaging do you need to collect information for?

Primary
e.g. can, bottle, sachet

Secondary
e.g. multipack case, outer plastic bag

Tertiary/Transit
e.g. pallets, stretch wrap, banding

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Sourcing Weights

In-house weighing (calibrated scales)

Supplier information

Internal specification records

Advisable to refresh weights every 2-3 years

- Lightweighting
- Changes to packaging configurations

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a Reconomy Group company

Recommendations

- ✓ Maintain a file of all workings
- ✓ Have written procedures
- ✓ Keep an audit trail to the data form
  - Required for Valpak & Agency audits
  - Maintain for four years

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EPR Timeline
Valpak
a Reconomy Group company

Timeline for EPR

Late 2022

Late 2022
Defra to publish rough EPR fee ranges and legislation for 2023 system

- **2023 PRN Recycling Targets**
- **Definitions of obligated parties**
- **2023 EPR data reporting rules & form**

2023

Across Q1 2023
Collation and reporting of 2022 packaging data under existing rules

2023

Starting 2023
EPR Producers begin to record packaging POM by
- **Expected waste stream**
- **Litter likelihood**
- **Fibre-composites**

(to be reported by 1st Oct 2023)

Starting 2023
EPR Sellers begin to record packaging POM by nation
(to be reported by 1st Dec 2024)

1st October 2023
Deadline for first biannual EPR report
2023 H1 data by: type, waste stream etc.

Prior to 2024
Defra to publish legislation that replaces the 1997 regulations
Sets 2024 reporting rules including eco-modulation criteria

2024

Starting 2024
EPR Producers also begin to record eco modulation data e.g. polymer of plastic
(to be reported by 1st Oct 2024)

1st January
Packaging EPR implemented

- **Liable producers acquire enhanced financial responsibilities**
- **Mandatory fibre-based composite cup takeback introduced**

1st April

- **First annual data submission by small producers**
- **Deadline for second bi-annual EPR report for large producers**
- **First annual HH EPR bill issued**

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Q&A

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a Reconomy Group company

Valpak

a Reconomy Group company

YOUR VOICE

bfbi

Graphic Packaging International from a global perspective

$8 Billion
ESTIMATED COMBINED COMPANY SALES
NYSE: GPK

ONE OF THE LARGEST FOLDING CARTON MANUFACTURERS IN THE WORLD

2700 PATENTS

100+ YEARS OPERATING HISTORY

SOLID FINANCIAL POSITION

FULLY INTEGRATED ON 3 MAJOR PAPERBOARD GRADES
SUS|CRB|SBS

130+

LOCATIONS WORLDWIDE

24,000+ EMPLOYEES WORLDWIDE

LEADER IN SAFETY PERFORMANCE

WORLDWIDE OPERATIONS

VERTICALLY INTEGRATED NETWORK

115 CONVERTING FACILITIES

8 PAPERBOARD MILLS

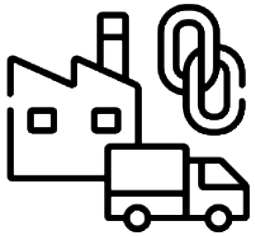
Graphic Packaging International from an EMEA perspective

EMEA OPERATIONS

43 PRODUCTION SITES

16 COUNTRIES

REGIONAL AND LOCAL SUPPLY NETWORK



HEALTHCARE AND BEAUTY **SPECIALIST**

$2.0B SALES FOR 2020

MACHINE SYSTEM SOLUTIONS

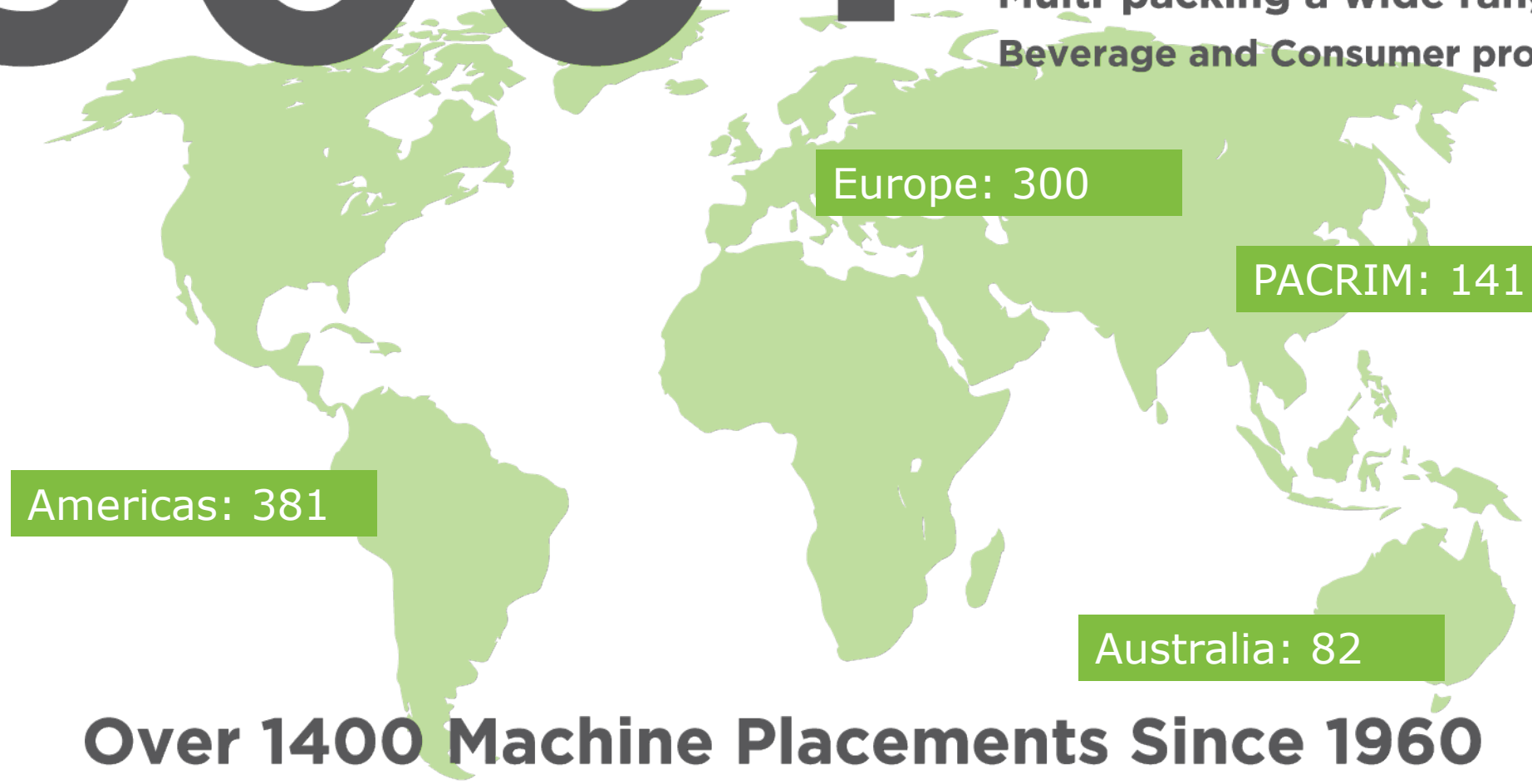
WEALTH OF EXPERIENCE

CONSUMER INSIGHT & **SUSTAINABILITY** DRIVEN INNOVATIONS

CONSUMER AND BEVERAGE **INDUSTRY LEADER**

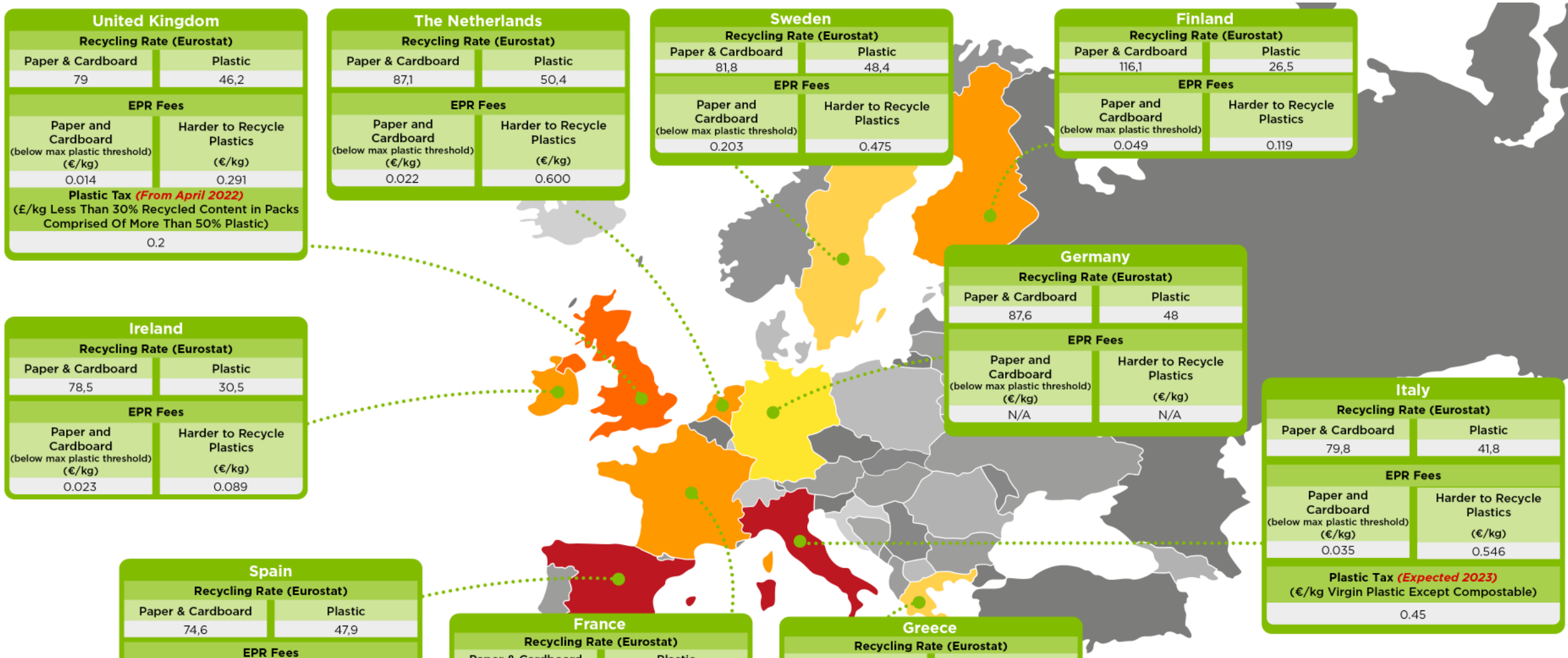
900+ Operating Machines Worldwide

Multi-packing a wide range of Beverage and Consumer products



Over 1400 Machine Placements Since 1960

Designing with Maximum Circularity in Mind



United Kingdom

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
79	46,2

EPR Fees

Paper and Cardboard (below max plastic threshold) (€/kg)	Harder to Recycle Plastics (€/kg)
0.014	0.291

Plastic Tax *(From April 2022)*
(£/kg Less Than 30% Recycled Content in Packs Comprised Of More Than 50% Plastic)

0.2

The Netherlands

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
87,1	50,4

EPR Fees

Paper and Cardboard (below max plastic threshold) (€/kg)	Harder to Recycle Plastics (€/kg)
0.022	0.600

Sweden

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
81,8	48,4

EPR Fees

Paper and Cardboard (below max plastic threshold)	Harder to Recycle Plastics
0.203	0.475

Finland

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
116,1	26,5

EPR Fees

Paper and Cardboard (below max plastic threshold)	Harder to Recycle Plastics
0.049	0.119

Germany

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
87,6	48

EPR Fees

Paper and Cardboard (below max plastic threshold) (€/kg)	Harder to Recycle Plastics (€/kg)
N/A	N/A

Ireland

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
78,5	30,5

EPR Fees

Paper and Cardboard (below max plastic threshold) (€/kg)	Harder to Recycle Plastics (€/kg)
0.023	0.089

Italy

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
79,8	41,8

EPR Fees

Paper and Cardboard (below max plastic threshold) (€/kg)	Harder to Recycle Plastics (€/kg)
0.035	0.546

Plastic Tax *(Expected 2023)*
(€/kg Virgin Plastic Except Compostable)

0.45

Spain

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
74,6	47,9

EPR Fees

Paper and Cardboard (below max plastic threshold) (€/kg)	Harder to recycle Plastics (€/kg)
0.076	0.739

Plastic Tax *(Expected 2023)*
(€/kg Virgin Plastic)

0.45

Note: Regulatory consumption reduction targets for plastic rings

France

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
98,4	26,5

EPR Fees

Paper and Cardboard (below max plastic threshold)	Harder to Recycle Plastics (€/kg)
0.165	0.361

Greece

Recycling Rate (Eurostat)

Paper & Cardboard	Plastic
99,5	41,5

EPR Fees

Paper and Cardboard (below max plastic threshold) (€/kg)	Harder to Recycle Plastics (€/kg)
0.053	0.066

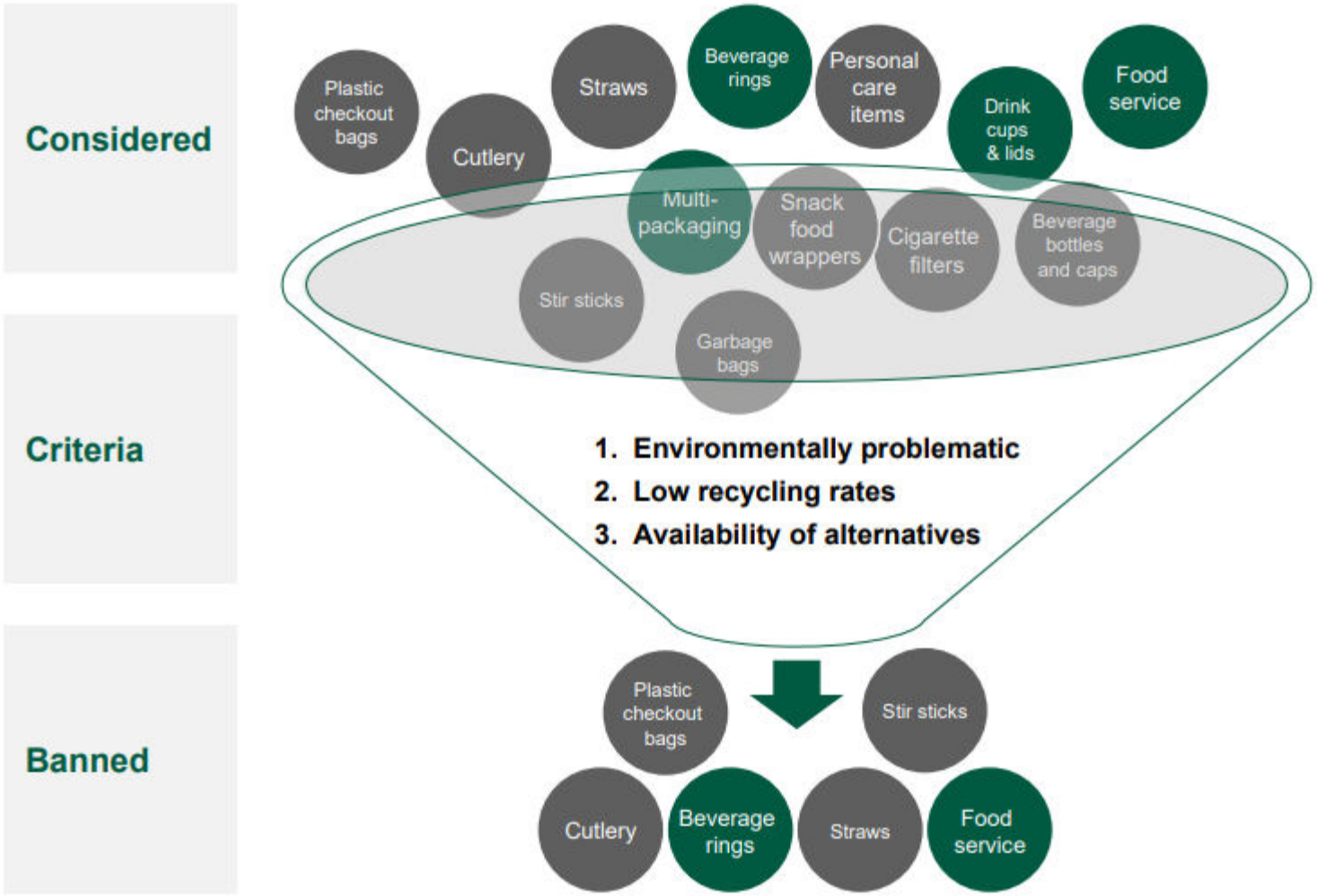
Disclaimer:

For most data, sources are Eurostat or Circpack report, 2020.

The EPR fees are updated yearly so small variations may have since occurred. There are countries such as the UK and Germany where the fee is not set nationally as it depends on competition between involved parties. Where possible an average was provided.

More countries may implement plastic taxes in the future and the data for upcoming ones may also be adjusted. Some countries have taxes on single use packaging that are not limited to plastics.

Government of Canada considered several categories of plastics to ban; criteria assessment revealed 6 warranting a ban



Governments across the world actively pushing for **more regulation towards plastics**

Brand commitments and voluntary pledges from organizations are accelerating plastic replacement initiatives

By 2025: 100% of products will be in returnable packaging or made from majority recycled content.

By 2025: 100% recyclable, reusable and compostable consumer-facing packaging.

Develop containers and packaging based on the 3Rs of "Reduce, Reuse, and Recycle

By 2025: Make 100% of our packaging recyclableglobally by 2025.

By 2025: 100% of packaging will be recyclable, compostable or biodegradable

---

Example goals from US Plastic Pact

2025

Define a list of packaging that is to be designated as problematic or unnecessary by 2021 and take measures to eliminate them by 2025

100%

100% of plastic packaging will be **reusable, recyclable, or compostable** by 2025

50%

Undertake ambitious actions to **effectively recycle or compost 50% of plastic packaging** by 2025

30%

By 2025, **the average recycled content or responsibly sourced bio-based content** in plastic packaging will be **30%**

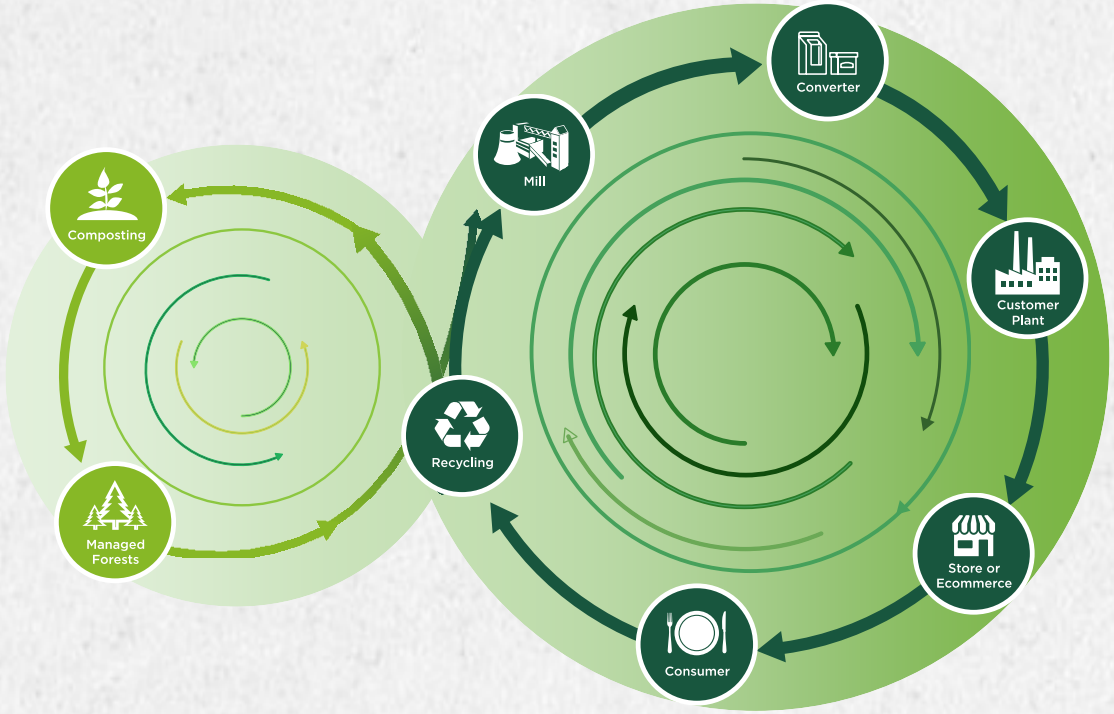
We strive to optimize every step of the way

Our fiber raw materials are **REGENERATIVE**

Our products are **RECYCLED** and we use recycled fibre where fit for purpose to help reducing wastes towards a circular economy

Fibre are currently circulated

6,3 times*



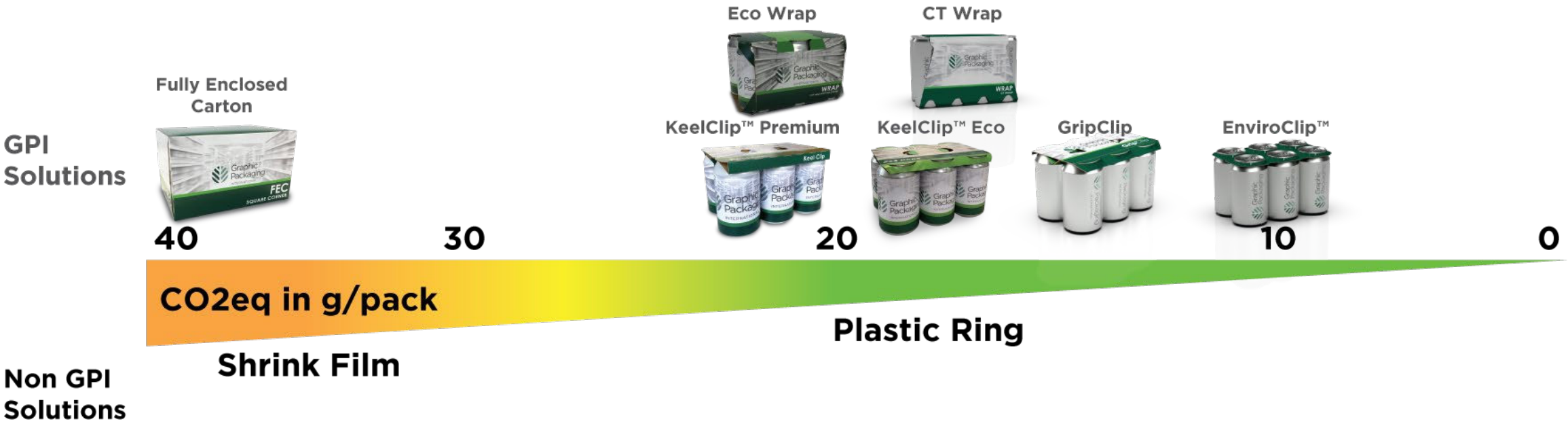
* In Europe, CEPI data- but much greater potential shown by recent research

Designing for the Environment - KPIs

		Sustainability & circularity KPIs	Benchmark	Product X
Direct	Composition	Carbon footprint		
		Fibre content		
		Bio-based content		
		Plastic content		
		Non virgin content		
		Excludes toxic/persistent chemicals		
	End of Life	Recyclability by design		
		Actual current recycling rate		
		Material Circularity Indicator		
		Resusability by design		
		Biodegradablity/compostability		
Indirect		Impact on supply chain		
		Impact on product marketing, pack functionality		
		Impact on shelf life or product waste		
		Material efficiency		

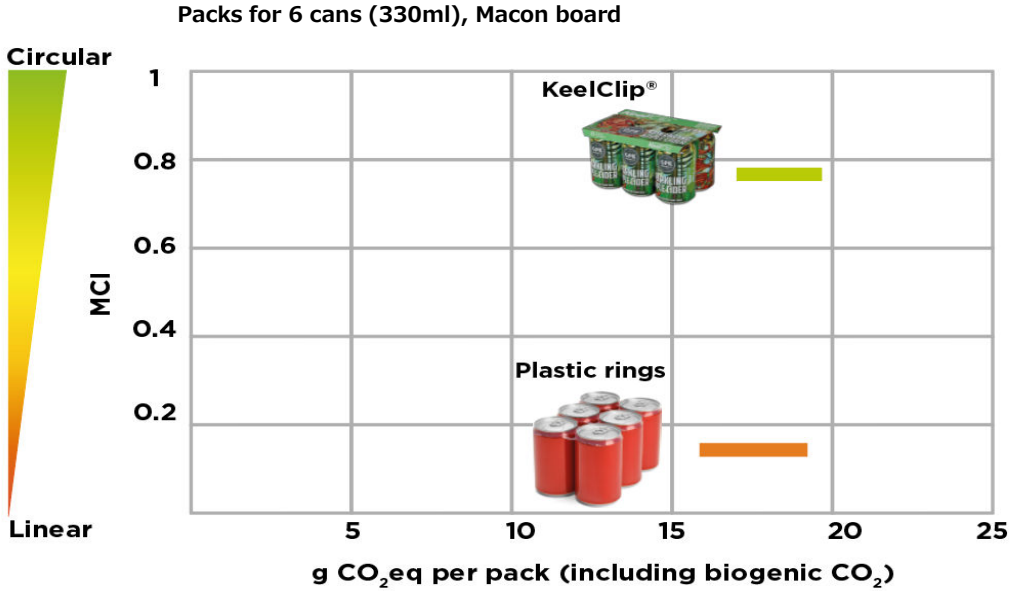
We Design Multipacks with Minimal Carbon Footprint and Maximum Circularity In Mind

Evolution of global warming potential (GWP100 excluding biogenic CO2) for different can packaging options:
Based on 6 x 12oz cans



Based on GPI's peer reviewed LCA and other sources, the shrink wrap is estimated in the range of 21-36 g CO2eq (depending on the considered EoL) whereas the Hicone alternative is estimated around 18g. Actual values may vary depending on exact value chain, design, material specification (e.g. r%), transport, etc. Data is for orientative purposes only.

Both recyclability and material circularity are important for environmental protection



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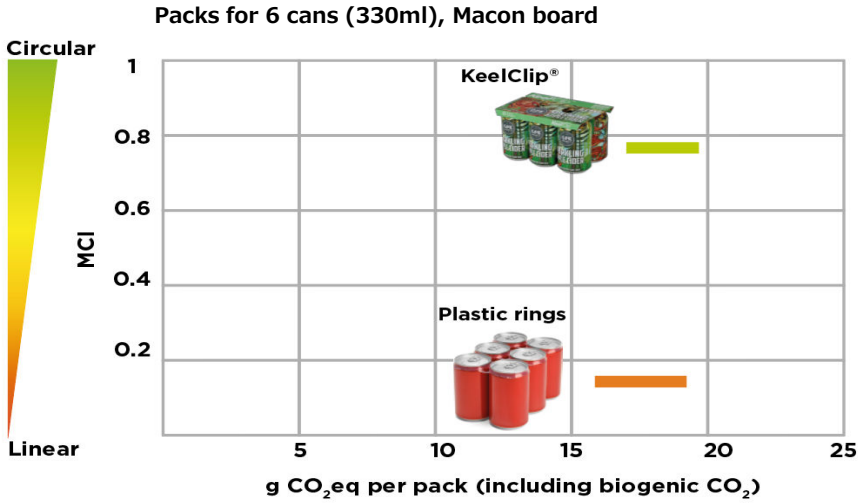


17%

Flexible PE collected for recycling
(PRE, Eunomia 2020)

RECYCLING> x4

84%

Current average recycling rate for paperboard in Europe
(Eurostat)

Graphic Packaging INTERNATIONAL

Craft Beer Market: US

Craft Beer in North America

9000
Breweries in the North American Market

GPI Supplies Over
70%
of the North American Craft Beer Cartons

200+ Customers - 35 Machine Placements - Over 45k Tons Annual Volume

US Craft Beer Packaging Trends

Cans are King!
Over the last 5 years cans have overtaken glass as the preferred container

6 Pack Most Common Format!
around 47% of all craft volume

12 Pack Format
31% and growing 10%/year

Variety Packs
4 out of the top 5 new 12 pack SKUS in the US

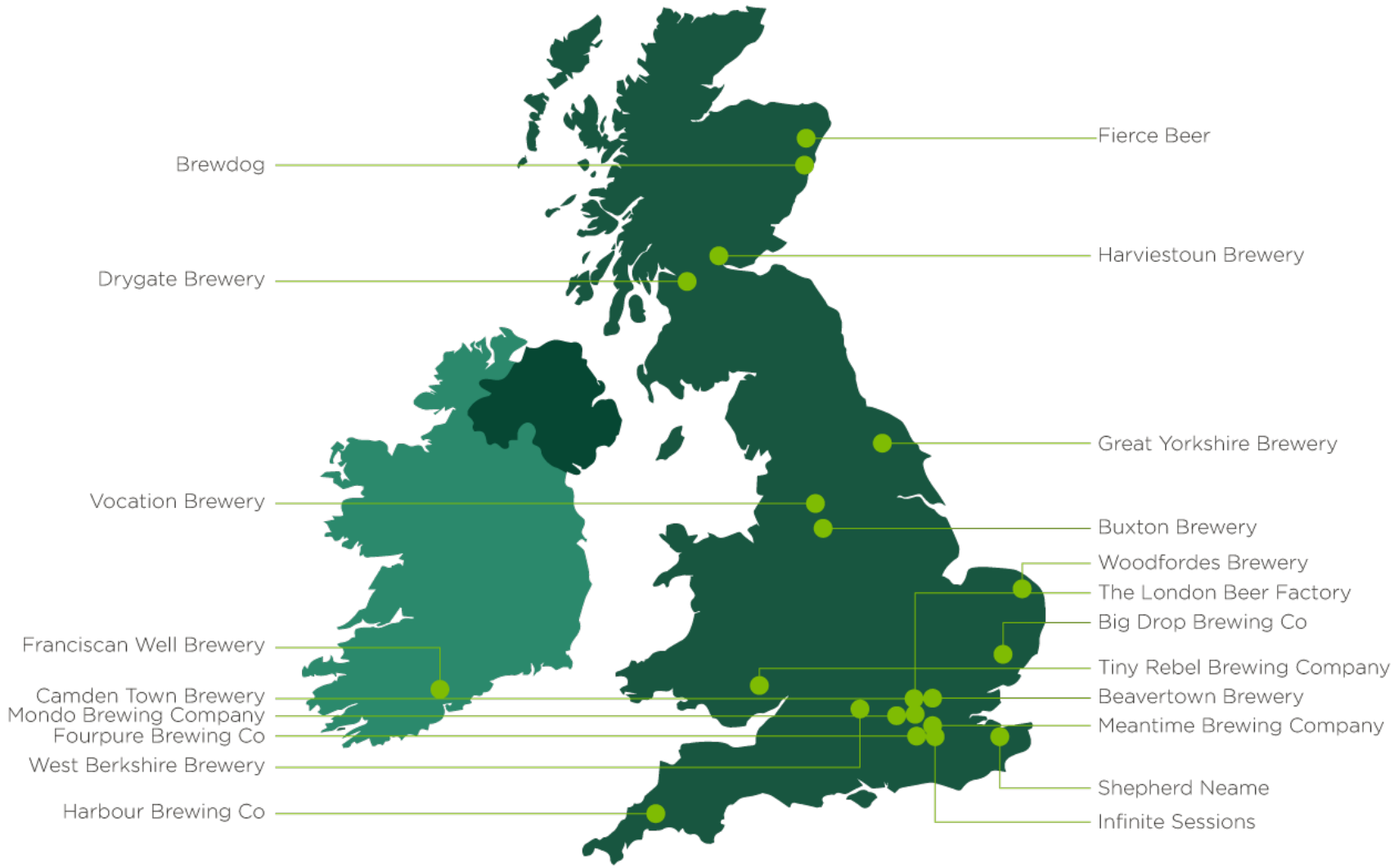
Craft Beer in North America

6 Pack Cans

12 Pack Cans

Graphic Packaging INTERNATIONAL

UK Craft Beer Customer Locations




Graphic Packaging
INTERNATIONAL
MEANTIME.
CONTAINS PROPER BEER.
12
330ML
GOOSE
312
URBAN WHEAT ALE
CAMDEN
HELLS
LAGER
CAMDEN
PALE
ALE
DRINK COLD
6x
CAMDEN
HELLS
LAGER
CAMDEN
HELLS
LAGER
BREWDOG
6
GOOSE
FEST
24 CANS
SESSION
IPA
FOURPURE
BREWING CO
INSPIRED BY ADVENTURE · BREWED AND CANNED IN LONDON
NEW YORK USA
4.2% ALC VOL
ELVIS JUICE
BREWDOG
INDIE
INDEPENDENT PALE ALE
BREWDOG

Case Study: Brewdog

Clips to Paperboard

The Start:

Moved into multi packs using a plastic can clip.

Their Challenge:

Supermarkets insisted they move to paperboard before their listings could be extended.

The Result?

Chose to go
PREMIUM

Considerable
VOLUME GROWTH

Machinery Solutions to Meet Your Volume and Investment

We have partnered with Freemantle to ensure that, together, we can offer you a COMPLETE SOLUTION

GPI Integrated Machinery Options
High Volume
High Investment

Graphic Packaging INTERNATIONAL

Pack and Machinery Partnership

FREEMANTLE

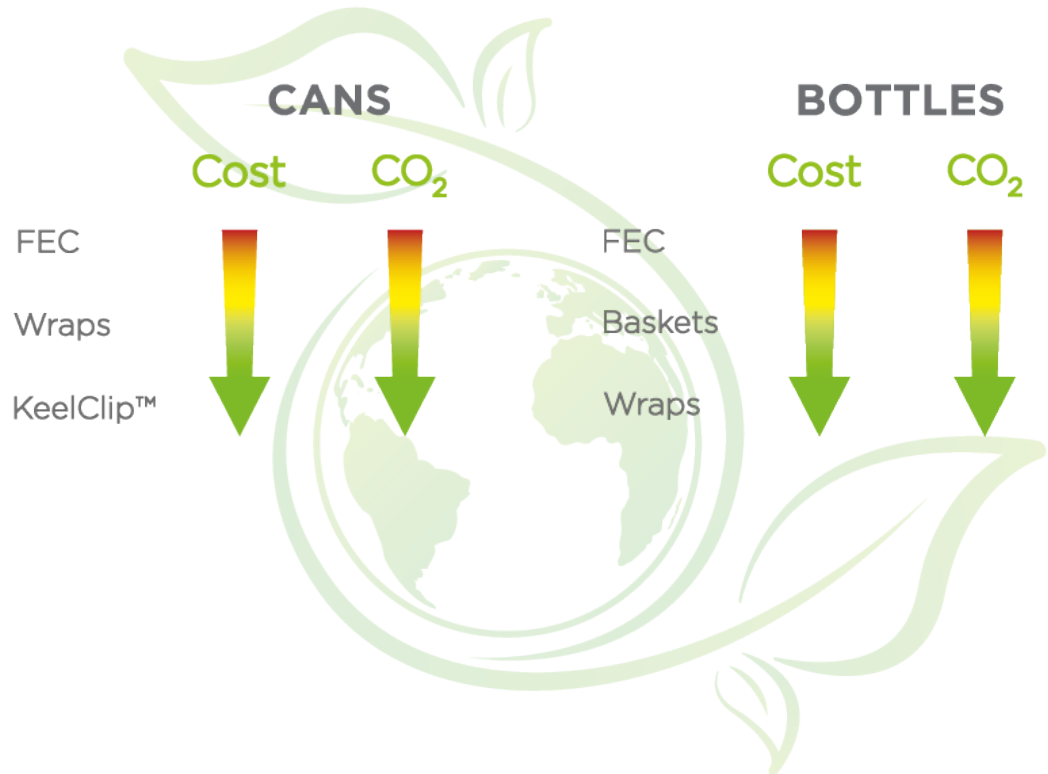
Running GPI Packs
Fully and Semi Automatic Solutions
Lower Volume
Lower Investment

Graphic Packaging INTERNATIONAL

WHY PAPERBOARD?

- Sustainable and responsible plastic replacement solutions
- Multiple product diameters
- Wide range of multipack sizes
- High speed, high accuracy machine solutions
- Design flexibilty to meet brand message and aesthetics
- Plastic replacement solutions ranging from minimal-board, to larger, more premium options

GREATLY REDUCED CO_2 EMISSIONS



Small Pack - Cans

Configurations: 4, 6 & 8 packs.

QUIKFLEX 300 QUIKFLEX 600 G3 QUIKFLEX 2100 G3

Fully Enclosed

Running on QUIKFLEX™ range

- Range of flap styles to suit aesthetic, cost and sustainability needs.
- Variety of corner styles to increase shelf presence, differentiation and product retention.
- Multiple carry and open features available.

Wraps

Running on MARKSMAN™ range

- Options for both locked and glued wraps.
- Barcode-cover and Ad panel capabilities.
- Carry features available.

MARKSMAN™ X5 MARKSMAN™ 750 MARKSMAN™ 1600HSI

Pillar Pack

Part of the QuikFlex™ Portfolio

☑ Glue	☐ Glueless	☑ Can Top Cover	☑ Premium Style	☐ Eco Style
☑ Handles	☑ Finger Holes	☑ Opening Features		

QUIKFLEX® 300 QUIKFLEX® 600 G3

QUIKFLEX® 2100 G3 QUIKFLEX® TS G3

Configurations

2x 3x 4x

4 Sided Rounded Corner

Part of the QuikFlex™ Portfolio

☑ Glue	☐ Glueless	☑ Can Top Cover	☑ Premium Style	☐ Eco Style
☑ Handles	☑ Finger Holes	☑ Opening Features		

QUIKFLEX 300 QUIKFLEX 600 G3

QUIKFLEX 2100 G3

Configurations

2x 2 3 4 5 6 3x 3 4 5 6 4x 4 5 6

Estrella Damm Market Success

The Goal:

- To Replace 100% of plastic shrink wrap can packaging by 2021

The Result?

FUNCTIONAL DESIGN

A bold design to **DISRUPT** the multipack isle

&

AESTHETICALLY PLEASING

Protects the product from damage as it moves through the supply chain

Moved into the

FIRST

4 SIDED ROUNDED CORNER PACK

Removes

99

TONNES

of plastic

Top and Bottom Gusset Wrap

Part of the Marksman™ Portfolio

Glue	Glueless	Can Top Cover	Premium Style	Eco Style	Can Orientation
☐	☑	☑	☐	☑	☐

Handles	Finger Holes	Opening Features
☑	☑	☑

MARKSMAN™ 750 **MARKSMAN™ 750HS**

MARKSMAN™ 1600HSI **MARKSMAN™ X5**

Small Pack - Bottles

Configurations: 4, 6 & 8 packs.

MARKSMAN™ 750 MARKSMAN™ X5 AutoMAXX™

Wraps

Running on MARKSMAN™ range

- Neck Through and Over-the-crown options.
- Ad Panel and Bar Code Cover options.
- Handle and Fingerhole carry options.
- Locked or Glued base options.
- Run speeds up to 300ppm*.

*when running on Marksman™ X5

Baskets

Running on AUTOFLEX™ range

- Multiple styles including Open, Neck Through, Over-the-crown and Fully Enclosed Baskets.
- Locked or Glued base options.
- Run speeds up to 250ppm.

AutoMAXX™ AutoFLEX™ 1500HS

Can Clips

Configurations: 4, 6 & 8 packs.

KeelClip™ ECO

- PSA Glued cans
  *Pressure-Sensitive Adhesive
- Fixed can orientation
- Can-top covers allow for direct palletisation

GripClip™

- No PSA Glue required
  *Pressure-Sensitive Adhesive
- Can orientation possible
- Can be direct palletised

EnviroClip™

- No Glue required
- Most economical option

Our entire KeelClip™ range/Clip portfolio fit standard tray sizes, with zero need for shrinkwrap.

Capable of running speeds up to 350ppm (Packs per minute)

KEELCLIP™ 1600

SPENDRUPS 1897: Plastic Replacement

The Aim:

3 years prior, Spendrups started a project for a new can line and within that project also evaluated the secondary packaging. Since paper has a higher recycling rate than plastic (shrink film) the project scanned the market for a solution that can deliver a paper-based packaging with a premium appearance and functionality.

Their Result:

100 Tonnes
Plastic
saved once fully converted in 2023

Energy Savings
through not using a shrink wrap tunnel

Why did you choose this solution?

KeelClip™ is a premium packaging that also supports Spendrups ambition to use sustainable material with high recycling rates. Also KeelClip™ delivers the line capacity that is needed to meet the requirements of a high speed can line.

Large Pack - Cans

Configurations: 9, 10, 12, 15, 16, 18, 20, 24 & 30 packs.

*30 pack requires non-standard pitch.

QUIKFLEX® 600 G3 QUIKFLEX® 2100 G3

Increase consumer convenience and occupy fridge space

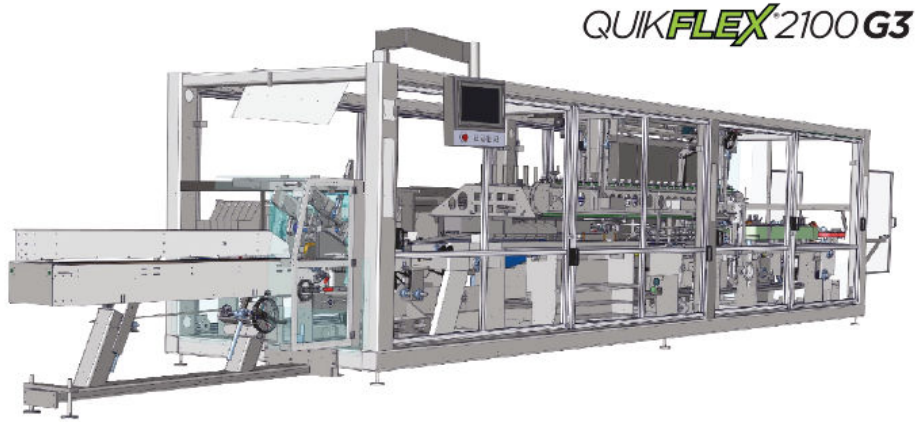
Enhance on-shelf presence and differentiation.

Improve consumer interaction and ease-of-access.

Fully Enclosed

Running on QUIKFLEX™ range

QUIKFLEX® 2100 G3



Our range of QUIKFLEX™ Machines are capable of high volume runs, at speeds reaching up to 300ppm (Packs per minute)

Large Pack - Bottles

Configurations: 9, 10, 12, 15, 16, 18, 20, 24 & 30 packs.

*30 pack requires non-standard pitch.

QUIKFLEX™ 300 QUIKFLEX™ 600 G3 QUIKFLEX™ 2100 G3

Crate handles provide a secure method of carry.

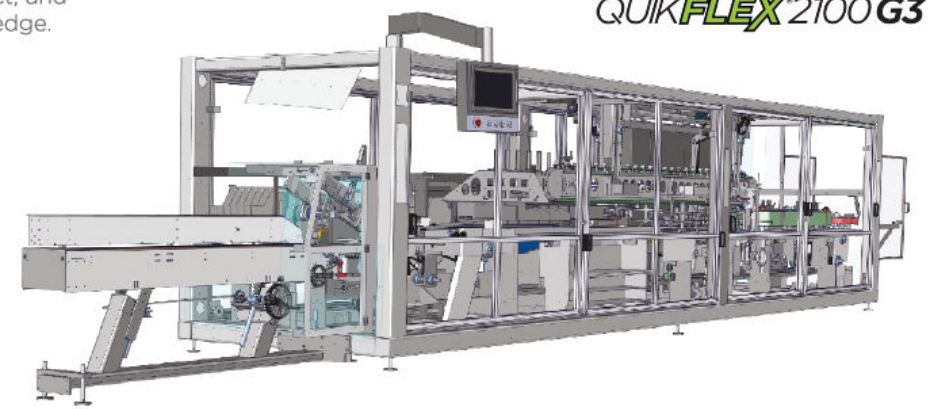
Tapered pack edges provide a secure fit, perfect for fragile containers such as glass bottles.

Windows and cutouts can provide the customer with a preview of the product, and provide a premium edge.

Fully Enclosed

Running on QUIKFLEX™ range

QUIKFLEX™ 2100 G3



Our QUIKFLEX™ machine range runs design features such as Two and Four-sided Tapers as standard.


THANK
YOU
Graphic
Packaging
INTERNATIONAL

YOUR VOICE

bfbi

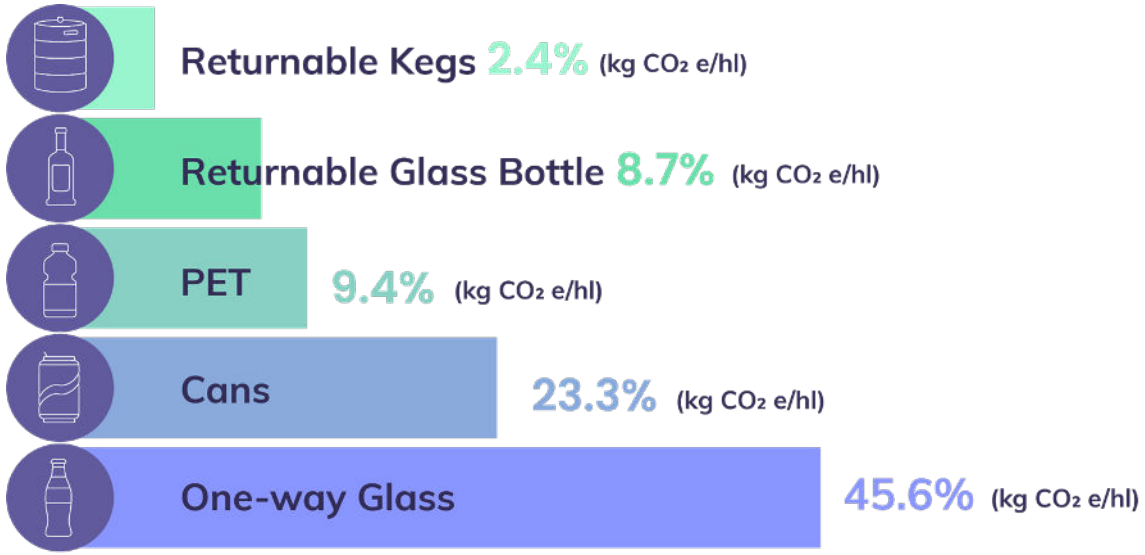
CONFIDENTIAL

Connecting kegs to the Internet

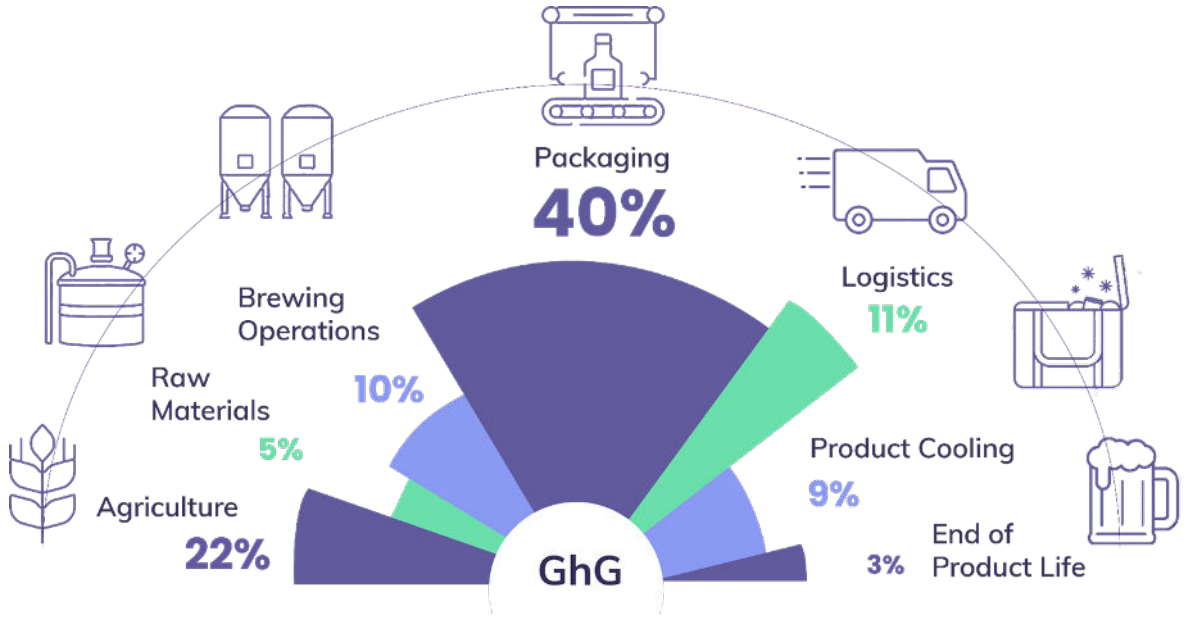
hello@smartcontainer.co.uk

SMART CONTAINER CO.

At Smart Container, we encourage use of the keg, the most sustainable packaging option for beer



Emissions by packaging type



Breakdown of GHG Emissions

Sources:

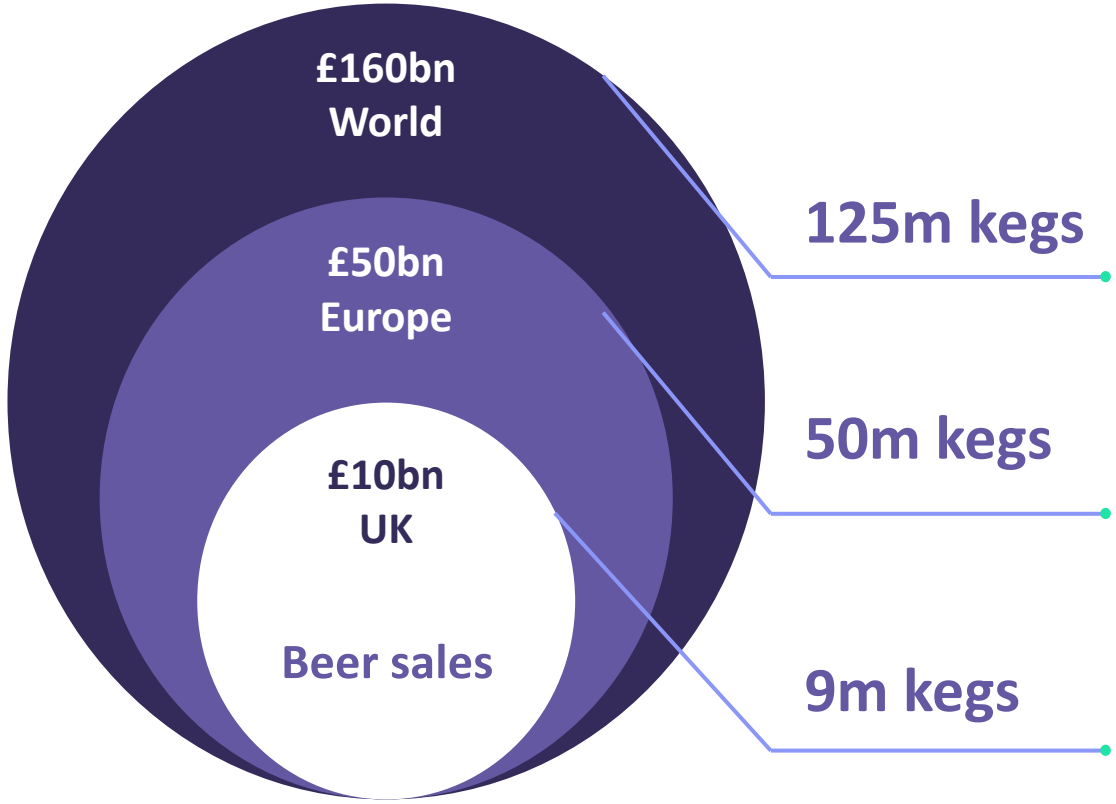
ab-inbev*.com/sustainability/climate-action/*
carlsberg*group.com/media/48860/carlsberg-group-esg-report-2021.pdf*
thielmann*.com/en/knowledge-base/the-environmental-impact-of-packaging-formats*

Beer is the 3rd most consumed liquid in the world

In the UK,

about **50% of all beer** is

transported using a keg



Sources: *Steve Hersberger. (2016). Seven Wasteful Sins: How you're losing Profits on Draft Beer Sales, Modern Restaurant Management magazine, Sept. Issue. 2016*
Knut Alicke. (2010). Lean and Mean: How does your Supply Chain Shape up? Mckinsey & Company Insights

Lack of visibility into the keg leads to many inefficiencies

- Lost kegs
- Suboptimal quality control
- Large carbon footprint
- Theft and overpouring
- Slow replenishment

- Long keg cycles
- Inaccurate forecasting
- Excess inventory
- Complex logistics
- Damaged containers

We solve this by connecting kegs to the internet

Brewery

Distributor

Retailer

Using our proprietary IoT device

Real-time sensors

- Volume
- Location
- Temperature
- Motion

- ✓ Easy to install
- ✓ Water resistant
- ✓ 5+ year battery
- ✓ Theft proof
- ✓ Fits on all kegs
- ✓ Industry specific

BEVEREDGE

Intelligence to run the best draught beer business in the world

Using data from the containers, we empower clients with intelligence to

Increase revenues

Understand when, what, where products are consumed

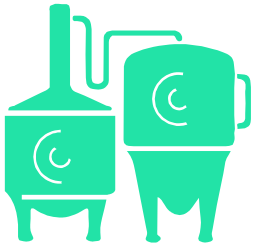
Lower operational costs

Improve asset utilization and quality control

Improve sustainability

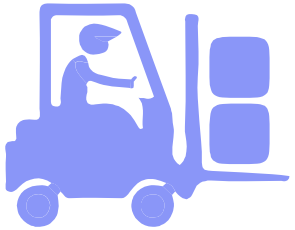
Reduce beer wastage and single use containers

Benefits of increased transparency



Brewery

- Identify new markets
- Demand-driven production planning
- Reductions in lost kegs and spoilage
- Sustainability reporting



Distributor

- Faster keg cycles
- Route optimisation
- Maximise warehouse space
- Predictive maintenance
- Labor productivity

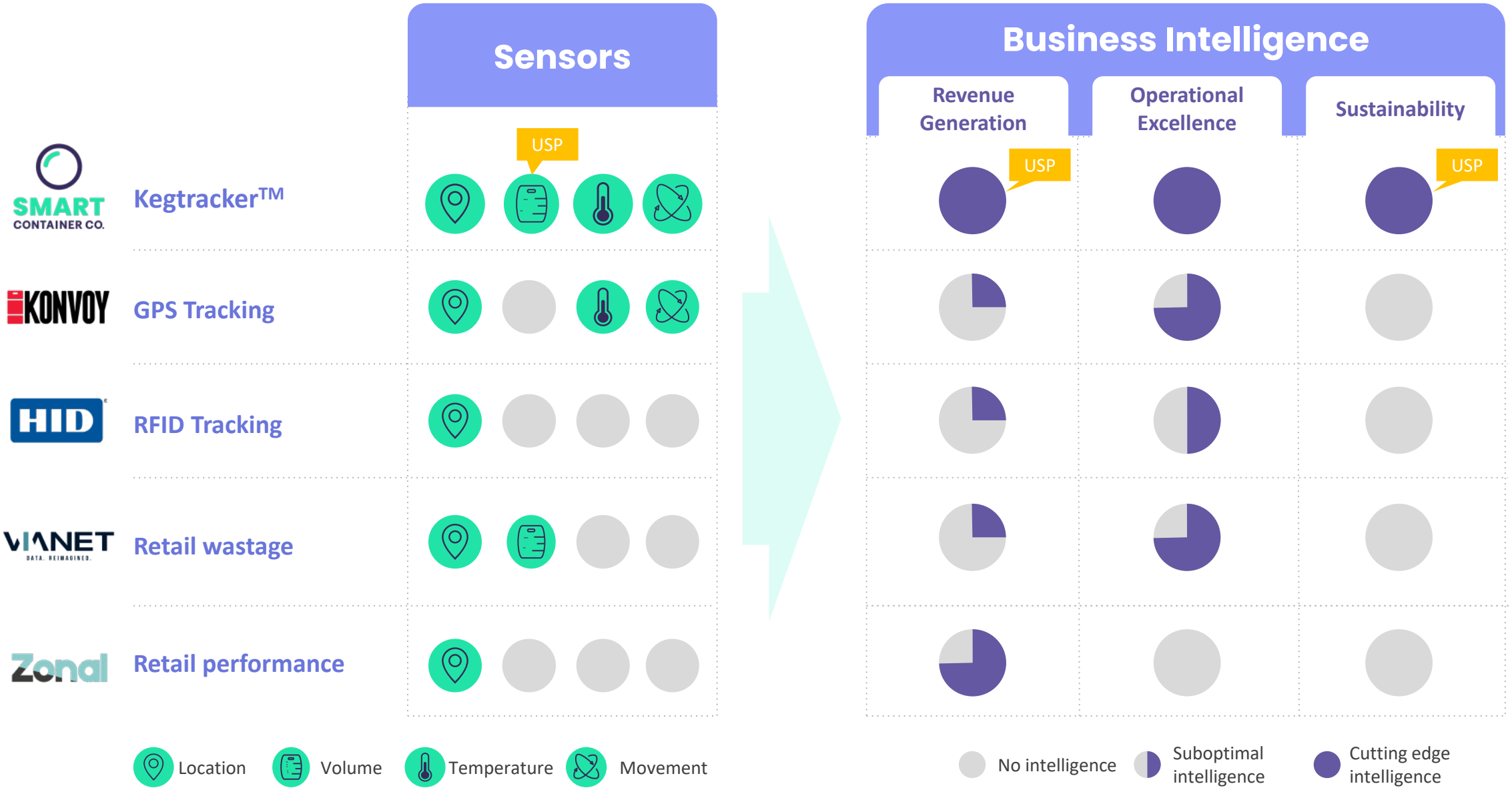
Retailer

- Curb retail wastage
- Live beer menus
- Auto Replenishment
- Pub-to-Pub peer analysis
- First in, first out

Consumer

- Great tasting beer
- Global beer map
- Knowledge of beer carbon footprint
- Dynamic price offers
- Real-time notifications

Holistic keg knowledge is our unfair advantage



Sample reports

Home

BeverEDGE

- Dashboard
- Keg Status
- Products
- Logistics
- Reports
- Sustainability
- Activity Log 12

Logout

Dashboard

May 21, 2022

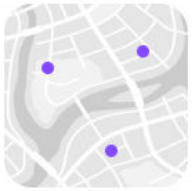
Hi Ryan! Check out your performance statistics

Keg Life Cycle

Quantity View

Your average keg turn is 7 weeks. You are performing on target.

- **Brewery** (135)
- **Warehouse** (72)
- **Distributor** (78)
- **Retail** (150)



Map View

Chart View

Energy View

Actions

- Collect kegs from pub 1 ☐
- Call distributor at 14:30 ☐
- Move kegs to cold store ☐

Notifications

- Keg #3670 expiring in 19 hours
- Keg #8928 marked for collection
- Keg #3456 has been refilled

Order Activity

- Keg #2673 on way to brewery
- Venue 1 has made a request
- Keg #7825 has arrived at venue

Sales

BeverEDGE

- Dashboard
- Keg Status
- Products
- Logistics
- Sales
- Reports
- Sustainability
- Activity Log 12

Logout

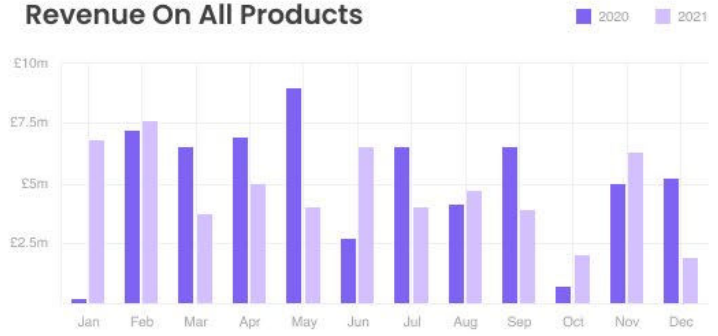
Sales

See your profit projections

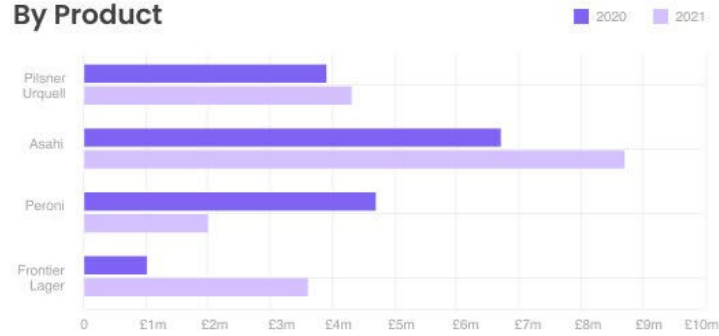
May 21, 2022

Total Revenue	Total Revenue	Best-Selling	Trending
$47 M	$11 M	Peroni	Asahi
Year To Date	This Quarter	This Quarter	This Quarter

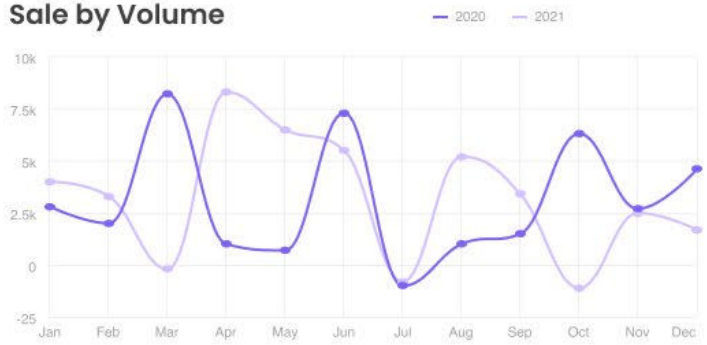
Revenue On All Products



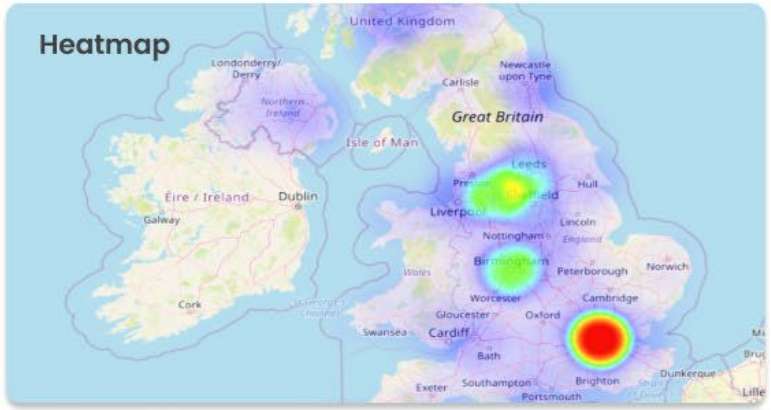
By Product



Sale by Volume



Heatmap



Quality

BeverEDGE

- Dashboard
- Kegs
- Products
- Logistics
- Reports
- Sustainability
- Activity Log 12

Logout

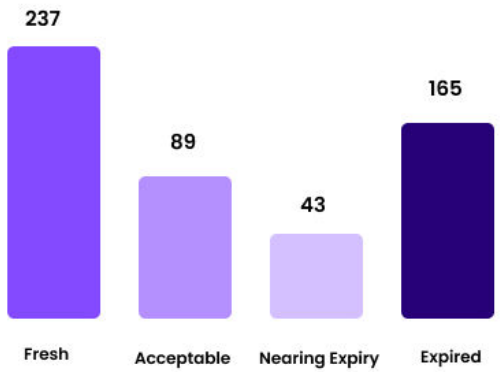
Product > Quality

See how your products are currently performing

May 21, 2022

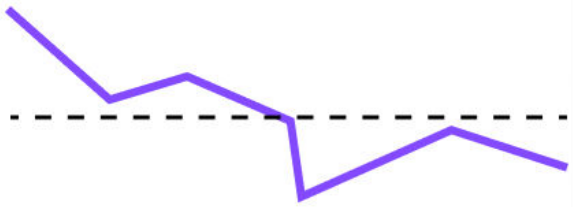
Freshness

In use (185) Not in use (165)



Expiry Forecasting

Number of Kegs / Time



List of Kegs

Sort By : Days Left

ID	Type	Status	Product	Volume	Days
#2567	50L	In Use	Clockwork		30
#3993	30L	In Use	Clockwork		30
#7288	50L	Spoiled	King Pin		30
#3626	50L	In Use	Clockwork		23
#1039	30L	In Use	Clockwork		21
#8237	50L	Spoiled	King Pin		18
#5524	50L	In Use	Clockwork		11
#4392	30L	In Use	Clockwork		0
#3561	50L	Spoiled	King Pin		0
#2567	50L	In Use	Clockwork		30
#3993	30L	In Use	Clockwork		30
#7288	50L	Spoiled	King Pin		30
#3626	50L	In Use	Clockwork		23
#1039	30L	In Use	Clockwork		21
#8237	50L	Spoiled	King Pin		18
#5524	50L	In Use	Clockwork		11
#4392	30L	In Use	Clockwork		0
#3561	50L	Spoiled	King Pin		0
#2567	50L	In Use	Clockwork		30
#3993	30L	In Use	Clockwork		30
#7288	50L	Spoiled	King Pin		30
#3626	50L	In Use	Clockwork		23

Logistics

BeverEDGE

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Logout

Logistics > Delivery Planning

Manage your orders

May 21, 2022

Active Orders

Show : This Month

Order ID	Products	
#267389	12 x 50L Clockwork Orange	In Transit

21/05/22 10:00 A.M — Departure
Crate Cold Store
Unit 7 Queen's Yard, London E9 5EN

21/05/22 11:00 A.M — Arrival
Beer Merchant's Tap
99 Wallis Rd, London E9 5LN

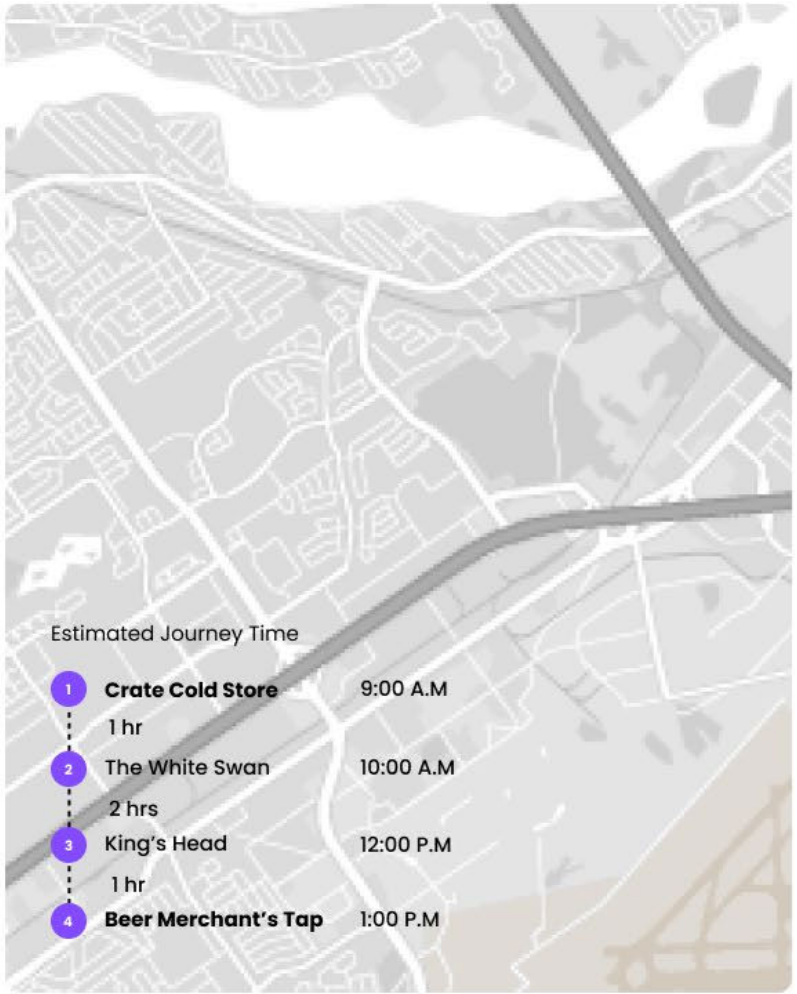
Ryan Nyugen
In Transit

Order ID	Products	
#267389	12 x 50L Clockwork Orange	In Transit

21/05/22 10:00 A.M — Departure
Crate Cold Store
Unit 7 Queen's Yard, London E9 5EN

21/05/22 11:00 A.M — Arrival
Beer Merchant's Tap
99 Wallis Rd, London E9 5LN

Will Grand
In Transit



Sustainability

BeverEDGE

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Logout

Packaging

Q1 : Jan 2022 - Mar 2022

Overview

Summary

Portion out of total Emissions (packaging/total emissions)

0 — 25% — 100

Number of kegs with tracker device

0 — 300 — 1,500

Total emissions from packaging (tCO2e)

4.0t

For Q1

Emissions compared to base year (tCO2e)

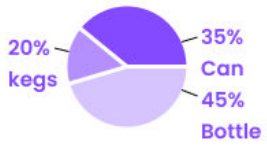
▼ 15%

Q1 (2022) compared to Q1 (2018)

Emissions per Hl from packaging (kgCO2e/Hl)

5kg

Emissions by Packaging (kgCO2e)



Primary Packaging

Select packaging type

Bottle | Can | Keg

Packaging Type	350Ml	550Ml	PET
Emissions per Hl (kgCO2e/Hl)	27	150	3
Total Emissions (kgCO2e)	27	150	3
Emissions Factor (kgCO2e)	0.17596	0.26735	0.202964
Change	-13%	-10%	-0.1%

Total emissions from primary packaging : 3 tonnes CO2e

Secondary Packaging

Packaging	Weight (Kg)	Emissions (KgCO2e)	Change
Cardboard	150	15	-16.7(%) ▼
Bottle Caps	27	18	-21.0(%) ▼
Plastic Rings	15	31	-3.8(%) ▼
Paper Packaging	80	12	-11.1(%) ▼
Plastic Labels	100	54	-13.3(%) ▼

Total emissions from secondary packaging : 1 tonne CO2e

Founders and Advisors

EDUARDO GARCIA

Executive

Co-founder

20 years of top-tier strategy and technology consulting

TAMARA GOLDSTEIN

Operations

Co-founder

Former venture capitalist turned entrepreneur

GARY BULL

Chairman

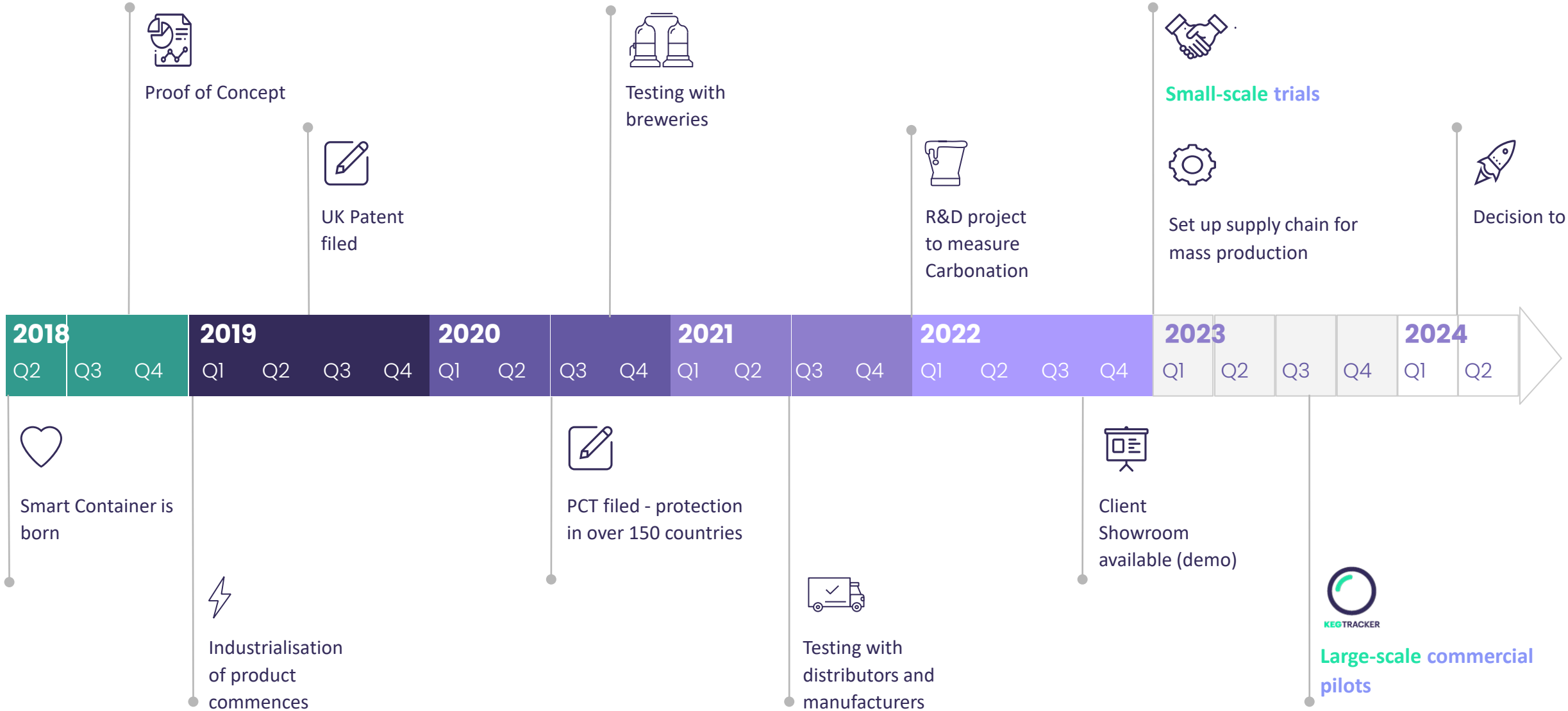
Former Global Head of Finance at SABMiller Procurement

HECTOR GOROSABEL

Advisor

Former Chief Executive Officer at Asahi International

Years of testing and R&D, ready for launch



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sales@smartcontainer.co.uk

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