A scenic view of the Cliffs of Moher in Ireland, showing a steep, rocky cliffside covered in green grass overlooking the ocean. The sky is a warm, golden color, suggesting sunset or sunrise. The text is overlaid on the right side of the image.

Plastic Packaging Recycling 2018 – 2030

The Irish Waste Management Conference
Croke Park

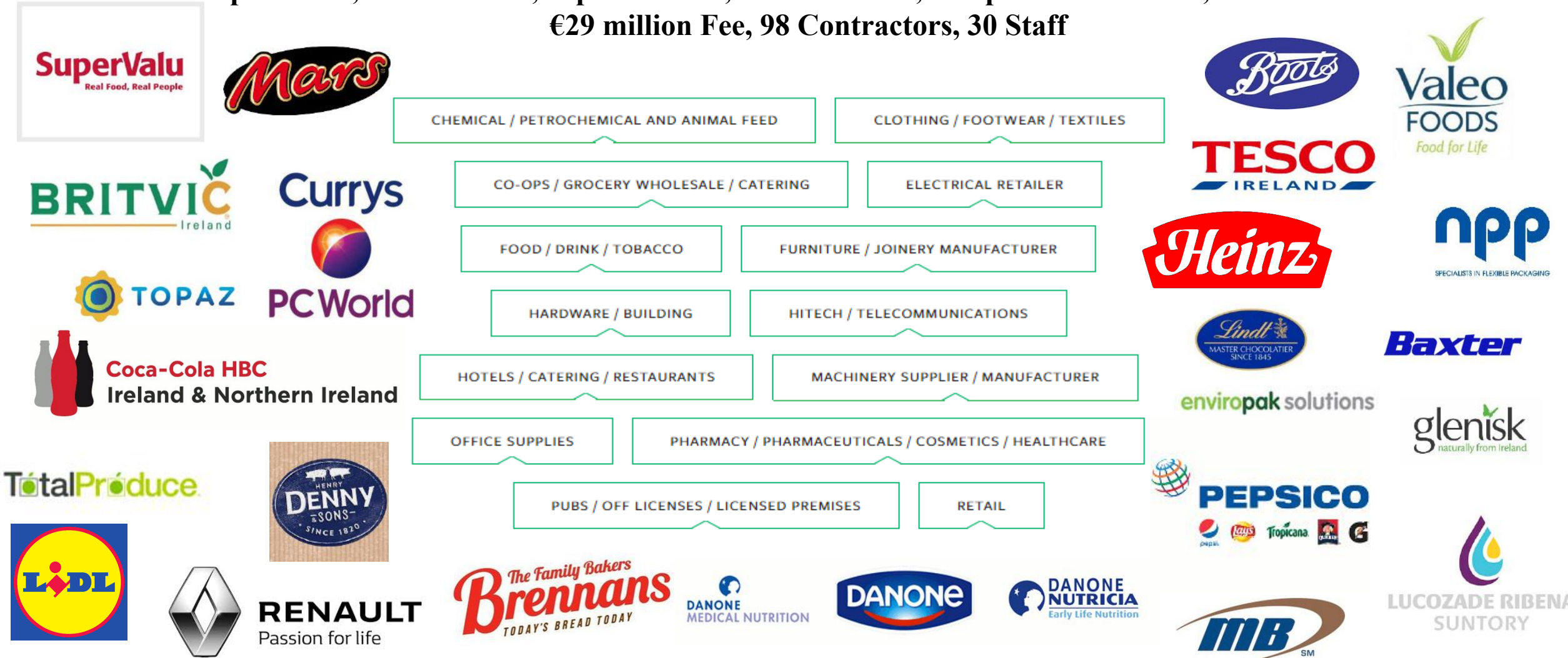
Séamus Clancy
29th November 2018

Agenda

- **Introduction to Repak**
- **Plastic Challenge**
- **Plastic Context in Ireland**
- **Responsibility of Stakeholders**
- **Actions in Progress**

Introduction to Repak







Repak has 3,000 members; supermarkets, manufactures, independent retailers, hotels and more
€29 million Fee, 98 Contractors, 30 Staff



Packaging Key Metrics

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
	Actual	Actual	Forecast	Forecast
Packaging Tonnes Placed on the market (tonnes'000)	983	991	1,018	1,046
Recovered/Recycled (tonnes,000)	899	869	894	979
Recycled (tonnes '000)	664	664	692	711
Landfill (tonnes '000)	84	122	124	65
Recovery & Recycling Rate (%)	91.4%	87.6%	87.8%	93.7%
Recycling Rate (%)	67.5%	67.0%	68.0%	68.0%
Landfill (%)	8.6%	12.4%	12.2%	6.3%

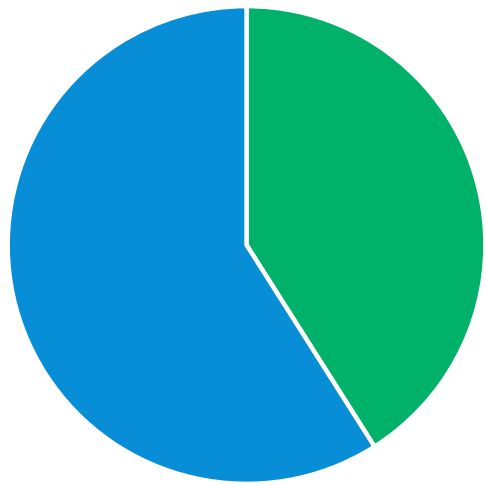
Packaging Recycling and EU

	All Packaging	 Plastic	 Wood	 Ferrous Metals	 Aluminium	 Glass	 Paper & Board
By 2011	60%	22%	15%	50%	-	60%	60%
By 2025	65%	50%	25%	70%	50%	70%	75%
By 2030	70%	55%	30%	80%	60%	75%	85%
IE 2018	68%	33%	93%	82%	86%	86%	78%

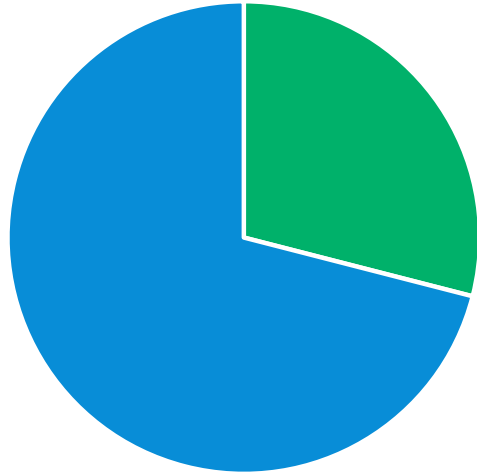
* 2018 Estimates

Source: EPA & EU Commission

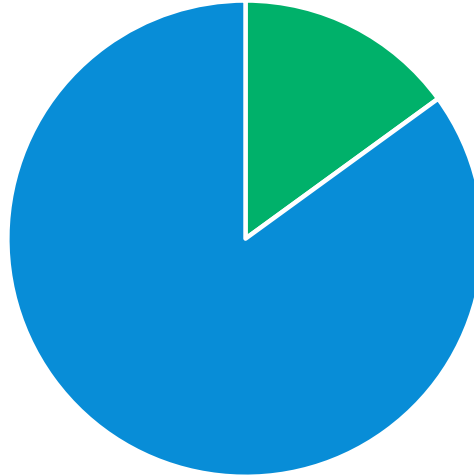
Packaging Waste in Ireland: A context



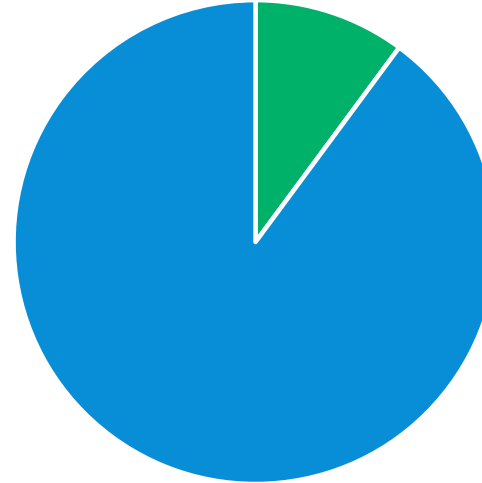
Paper 41%



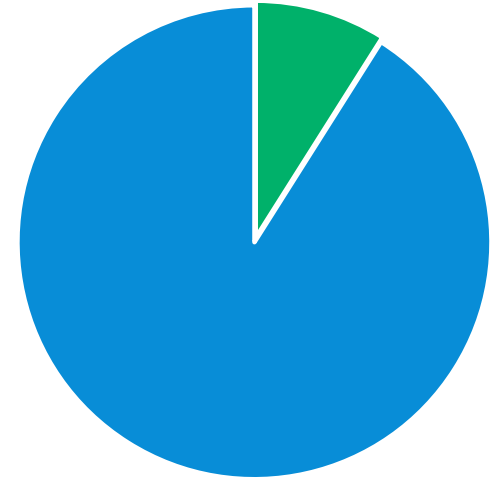
Plastic 29%



Glass 15%



Wood 8%



Metal 7%

Plastic Strategy: All plastics packaging must be recyclable by 2030

Recyclable – recycled via commonly available infrastructure (e.g. Green Bin)

Before Industry funded Repak



Over 90% of all packaging went to landfill

Now less than 10% of all packaging goes to landfill

Plastic Challenge



European Strategy for Plastics
(CEP)



Roinn Cumarsáide, Gníomhaithe
ar son na hAeráide & Comhshaoil
Department of Communications,
Climate Action & Environment

National Strategy

Packaging Waste

Producers

Public authorities
e.g. EPA, RWMO, etc.,

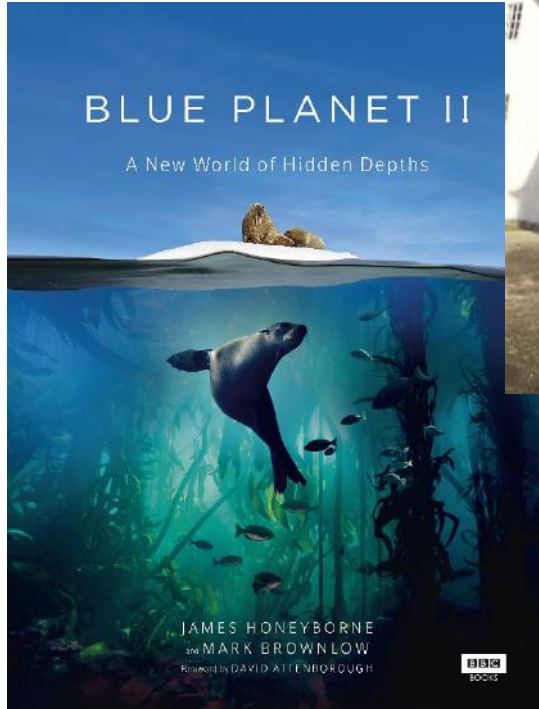
REPAK 

Consumers

Waste collection &
recycling industry

A European Strategy Context For Plastics in a CEP

- Improve the economics of plastics recycling
- Curb plastic waste
- Stop littering at sea
- Drive investment and innovation
- Harness global actions



What are the public thinking

You worry about the environmental impact of plastic products?

Yes
88% IE
87% EU 28

You worry about the health impact of plastic products?

Yes
81% IE
74% EU 28

Industry & retailers to make an effort to reduce plastic Packaging

Yes
98% IE
94% EU 28

Products should be designed to facilitate recycling of plastic?

Yes
97% IE
94% EU 28

Consumers should pay an extra charge for single use plastic?

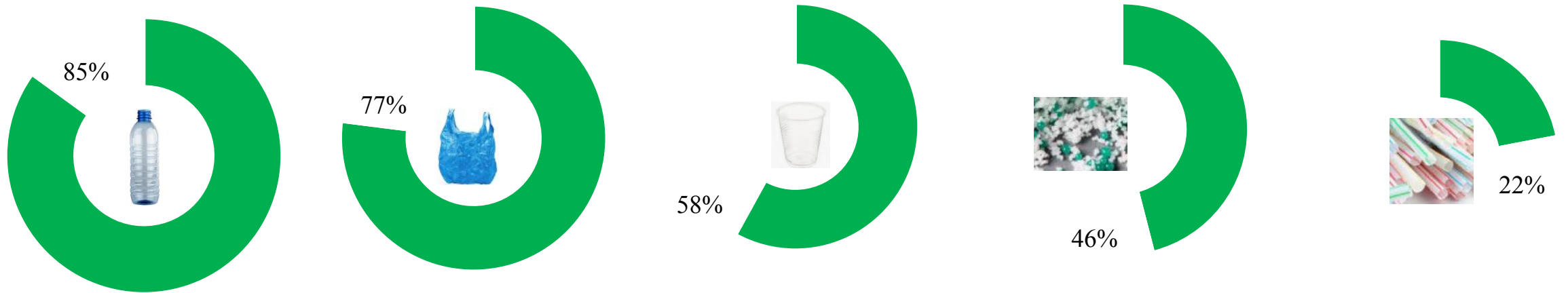
Yes
72% IE
61% EU 28

Source: Eurobarometer – face-to-face interviews October 2017

Impact of “Plastic Panic”

- UN sustainable Development Goals, Paris Agreement and EU Circular Economy
- NGO and media activity
- Public perception

Single use plastic believed to contribute most significantly to environmental pollution



Plastic Bottles

Plastic Bags

Plastic Cups

Plastic Microbeads

Plastic Straws

Source: Amarach Research

Plastics context – in Ireland

1. Population Growth V's Packaging Growth – Decoupling

1. Targets 33% to 55% by 2030 – 80,000 additional tonnes

1. Packaging Waste Directive –

- Circular Economy Package
- CEP Plastic Strategy
- Single Use Plastics – Draft Directive

2. Complex Supply Chain & Market Structure

3. Litter

4. Functionality V's Environmental Sustainability

5. Stakeholders Responsibilities



Water



Energy

Population
5,574,000
Yr. - 2030



Food

1. EU
2. China

1. Infrastructure Capacity
2. Recycling Capacity
3. Technology Developments
4. Consumer Education



Waste

Plastic Packaging Supply Chain

RAW MATERIAL SUPPLIERS



PACKAGING DESIGNERS MANUFACTURERS



PACKAGING USERS / BRAND OWNERS



Post Consumer Plastic Packaging

Polymers Types	Examples of packing using Polymer Type	%
PE-LD	Reusable bags, trays and containers , agricultural film (PE-LD), food packaging film (PE-LLD)	29
PP	Pipes, car parts, food packaging, sweet & snack wrappers , hinge caps, microwave - proof containers	19.3
PET	Bottles for waster, soft drinks, juices , cleaners, mouth wash	13.4
PE-HD	Toys, (PE-HD, PE-MD), milk bottles, shampoo bottles, pipes, houseware (PE-HD)	13.3
PS	Eyeglasses frames, plastic cups, egg trays (PS). Packaging, building insulation (PS-E)	5.5
PVC	Window frames, profiles, floor and wall covering, pipes, cable insulation, garden hoses, inflatable pools	4.5
Others		4.5
ABS, ASA, SAN	Hub caps	2.5
PUR	Building insulation, pillows and mattresses, insulating foams for fridges	2.1
EPS	Pots, yoghurt pots, vegetable punnets	2
Other Thermoplastics		1.8
PA	Parts within trigger sprays, flexible film for barrier properties	1.4
PMMA	Touch screens	0.6

Source: Plastics Europe

IE, UK and EU: A comparison

Total Packaging Recovered



93%



64%



79%

Plastic Packaging Recovered



82%



48%



70%

Total Packaging Recycled



68%



59%



65%

Plastic Packaging Recycled



34%



37%



40%

Source: Plastics Europe

Strategic Framework

Collectors

Collection Systems

MRF – Infrastructure

Technology Development

Recycling – Capacity

Licence 125K

Processing 62K

Actual 25K

Consumer

Education/Behavioural Change

Contamination

Litter

Cost



EU CEP

Government

Policy

Capacity

Single Use Plastics

Producers

Prevention

Reduction

Eco Design

Fee Modulation

Responsibility of Stakeholders

Government

- Needs to lead a plastic packaging working group and develop a plastic strategy
- Provide a communications platform that is coordinated across all stakeholders
- Identify and address the data gaps that exist in quantifying plastic waste
- Priorities the recycling of plastics under the national waste prevention programme
- Develop guidance on the end of life of biodegradable plastic packaging products

Waste Industry

- Identify the areas where plastics are not being collected effectively (apartments, businesses & office complexes etc.)
- Review and introduce the appropriate waste collection systems to deliver the recycling targets
- Improve the existing collection and recycling of plastics from businesses
- Develop processing facilities in Ireland & support EU facilities

Consumer

- NGO's and consumer groups to use their networks to encourage sustainable consumption
- Increased on street and beach infrastructure to be provided by Local Authorities to facilitate litter management
- Increased Civic Amenity & Bottle Banks
- Contamination of recycling bin remains an issue. Polluter pays principle needs support from NGO's

Producers & Repak

- Fee modulation for producers and financial incentives for waste operators by plastic types to be developed to increase recyclability of materials
- 2019 and additional €5m in financial incentives will be available to the Waste Industry
- Separate collection trials for plastics to be carried out in 2019 – Team Green Recycling Machines
- Establish an eco design working group to provide leadership with the Prevent & Save Team
- Repak members to deliver on a plastic pledge to take the actions required to meet the targets & measure outcome

Members - Ireland's Pledge on Plastic Packaging Waste

Musgrave



TESCO IRELAND
Every little helps

Mulrines
FINEST QUALITY JUICES, SMOOTHIES, SAUCES

Stonehouse

npp
SPECIALISTS IN FLEXIBLE PACKAGING

MADE IN IRELAND
FLAHAVAN'S

LUCOZADE RIBENA
SUNTORY



TotalProduce.
Let's Grow Together

PEPSICO

DANONE NUTRICIA
Early Life Nutrition

BRITVIC
Ireland

innocent

Coca-Cola HBC
Ireland & Northern Ireland

BROWN THOMAS



UNIVAR



Aurivo
Co-operative Society Ltd.

JDE
JACOBS DOUWE EGBERTS



ARNOTTS

richmond
BRAND REVOLUTIONARIES

Business funding recycling

REPAK

Join Team Green Today

Team Green is a call to action for everyone in Ireland to play their part when it comes to recycling plastics. By working together – i.e. shared responsibility – we can encourage Ireland to meet its 2025 (50%) and 2030 (55%) plastic recycling targets.



www.repak.ie



Thank You