The Packaging Challenges in the Food Industry

Martin Hofler

BORD BIA
IRISH FOOD BOARD

Functions of Packaging

Primary

- Protection
- Containment/Collation
- Preserve
- Transport

Secondary

- Sales
- Promotion
- Service
- Guarantee



Benefits of Plastic Packaging



Light weight



Conservation
&
Preservation



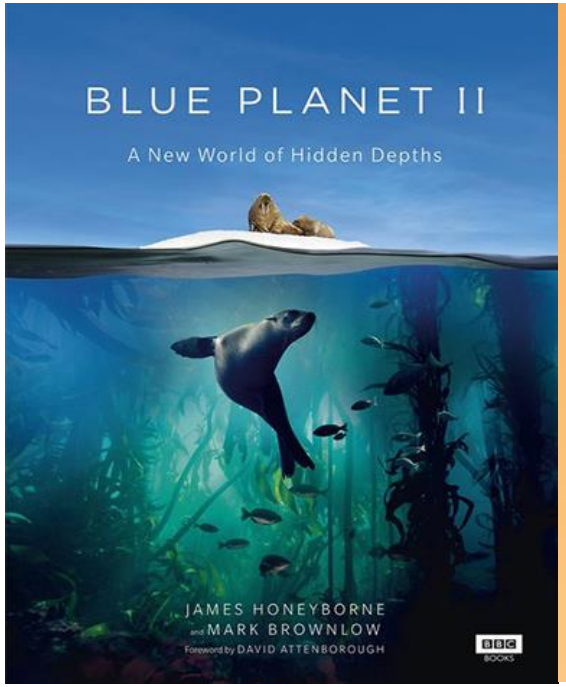
Convenient
&
Innovative

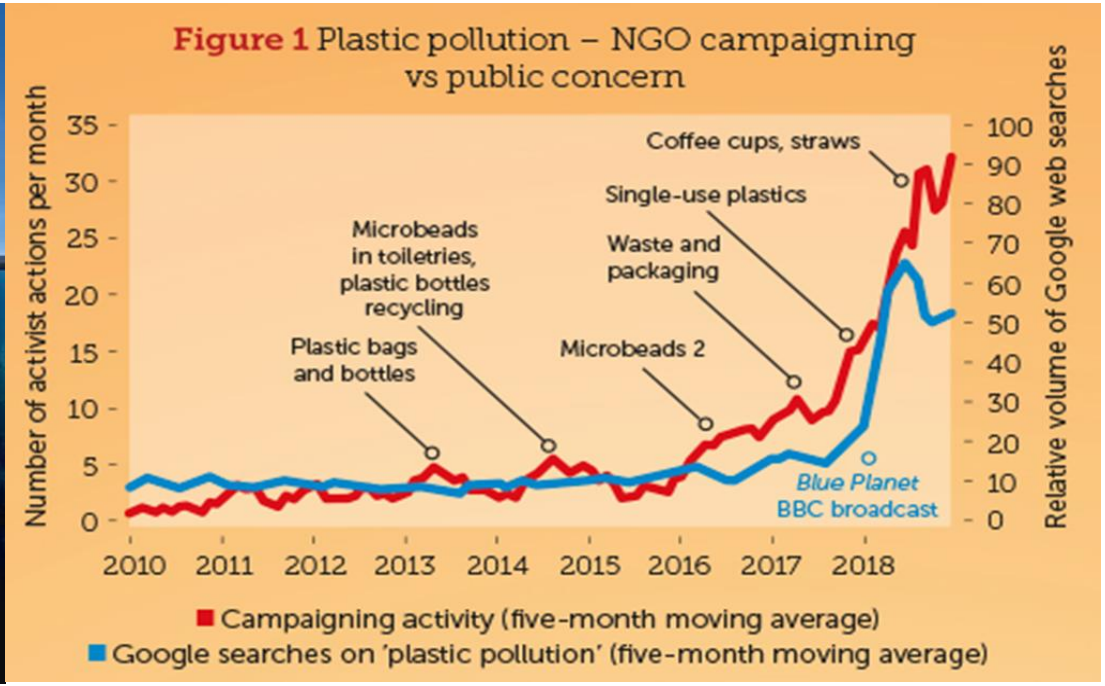


Safe
&
Hygienic

Cost-effective versus other packaging materials

Blue Planet Effect





Packaging Concerns



Plastic waste set to beat price as UK shoppers' top concern - study

10 Sep 2018



Crunch time for Walkers over non-recyclable crisp packets

5 Aug 2018 681



One-third of UK supermarket plastic is not easily recyclable, analysis shows

19 Jul 2018



Supermarkets must stop using plastic packaging, says former Asda boss

12 Oct 2017 322

This article is more than **1 month old**

Tesco promises to ban brands that use excessive packaging

Chief executive says hard-to-recycle plastic on own-brand products will be eliminated

'I want packaging overhaul to plug into a national framework'



▲ The ready ... be gone by the end of the year. ...

Tesco has pledged to step up its efforts in the battle against single-use plastic with measures that include banning brands using excessive packaging from Britain's largest supermarket chain.

"From next year, we will assess packaging as part of our ranging decisions, and if it's excessive or inappropriate, we reserve the right not to list it." - Dave Lewis, Tesco Group CEO

Preferred Packaging Material

Tesco Preferred Materials

Version: B03
Date: 091018

Red: Materials that we will remove from our Own Brand packaging by the end of 2019
Amber: Materials that we will either investigate alternatives for, or **use only where required**
Green: Materials we will continue to use and use as replacements for the Red List

Red – Exit (poor for recycling and/or potentially harmful)	Amber - Hold (until infrastructure and/or scientific developments take place)	Green – Preferred (easily recycled, can have high recycled content)
PVC & Polystyrene	Home compostable E.g. Cellulose, Mater-bi & Natureflex	Sustainably sourced Wood, board, paper & Glassine
Oxy degradable materials	OPP - Oriented polypropylene	PET - Polyethylene terephthalate
Rigid Water soluble plastics	Black plastic	Glass
PLA – Polylactic acid	PP – Polypropylene [for certain food applications]	PP – Polypropylene [non food]
Industrial compostable	Complex laminates	HDPE & LDPE
Polycarbonate	PVdC (Not PVC)	PE – Polyethylene (preferred material for flexible film)
Acrylic	New materials	Steel & Aluminium

1

TESCO

BBC NEWS

Plastic packaging: How are supermarkets doing?

Governmental Policy

- **European Strategy for Plastics in a Circular Economy**
  - All plastic packaging on the EU market will be recyclable by 2030, the consumption of single-use plastics will be reduced and the intentional use of microplastics will be restricted.

- **Single Use Plastics Directive 2019** – Reduce Marine Litter

  Headlines:

  - A ban on selected single-use products made of plastic for which alternatives exist on the market: cotton bud sticks, cutlery, plates, straws, stirrers, sticks for balloons, as well as cups, food and beverage containers made of expanded polystyrene and on all products made of oxo-degradable plastic;
  - Measures to reduce consumption of food containers and beverage cups made of plastic and specific marking and labelling of certain products;
  - Extended Producer Responsibility schemes covering the cost to clean-up litter, applied to products such as tobacco filters and fishing gear;
  - 90% separate collection target for plastic bottles by 2029 (77% by 2025) and the introduction of design requirements to connect caps to bottles, as well as target to incorporate 25% of recycled plastic in PET bottles as from 2025 and 30% in all plastic bottles as from 2030.



Origin Green Packaging Targets

120 Packaging Targets



Origin Green & Repak Packaging Seminar



100+ Origin Green Member



Key Irish Stakeholders



International Experts



Share Experiences

Industry Collaboration

Origin Green Packaging Target

Most favoured option



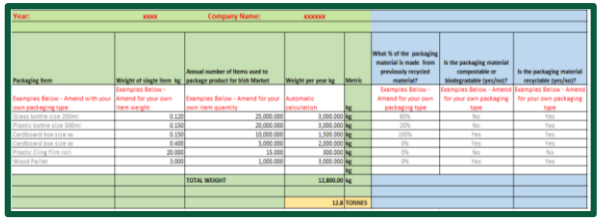
Least favoured option

- Use fewer packaging materials, in any one pack, to allow for ease of recycling.
- Use mono materials where possible.
- Clearly communicate the pack material and recycling message.
- Purchase packaging materials that are:
  - sourced from sustainable materials (e.g., FSC); and/or
  - made from recycled content.

Packaging Target Support

1. Packaging Tracker

- Define a packaging baseline.
- Identify type and volume of packaging used.



Year:	xxxx	Company Name:	xxxxxx				
Packaging Item	Weight of single item kg	Annual number of items used to package product for Irish Market	Weight per year kg	Metric	What % of the packaging material is made from previously recycled material?	Is the packaging material compostable or biodegradable (yes/no)?	Is the packaging material recyclable (yes/no)?
Examples Below - Amend with your own packaging type	Examples Below - Amend for your own item weight	Examples Below - Amend for your own item quantity	Automatic calculation		Examples Below - Amend for your own packaging type	Examples Below - Amend for your own packaging type	Examples Below - Amend for your own packaging type
Glass bottle size 250ml	0.120	25,000,000	3,000,000	kg	80%	No	Yes
Plastic bottle size 500ml	0.150	20,000,000	3,000,000	kg	20%	No	Yes
Cardboard box size xx	0.150	10,000,000	1,500,000	kg	100%	Yes	Yes
Cardboard box size xx	0.400	5,000,000	2,000,000	kg	0%	Yes	Yes
Plastic Cling film roll	20.000	15,000	300,000	kg	0%	No	No
Wood Pallet	9.000	1,000,000	9,000,000	kg	0%	Yes	Yes
				kg			
		TOTAL WEIGHT	12,800.00	kg			
			12.8	TONNES			

2. Packaging Clinics

- Address packaging concerns on a one-to-one basis with a Repak Packaging Technologist
- >35 members participated

REPAK
Business *funding* recycling

Thank You

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