



Sharp Interpack - Balancing the environmental issues with pragmatic business solutions

“Food waste in developing countries can be as high as 50%.
By contrast in Europe between 2% and 3% goes to waste before it reaches the shops”
Source: INCPEN (Industry Council for Packaging & the Environment)





The great packaging paradox

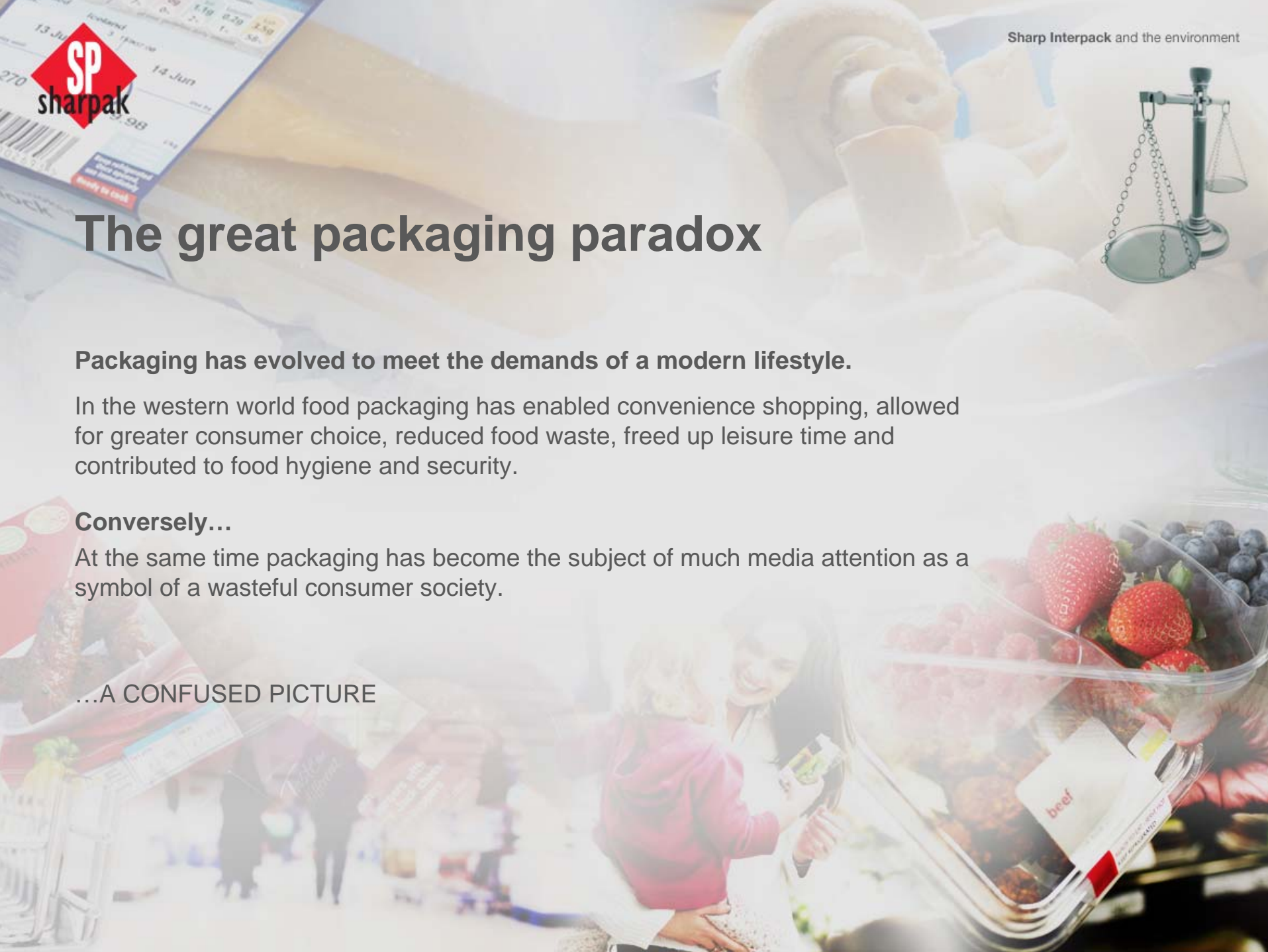
Packaging has evolved to meet the demands of a modern lifestyle.

In the western world food packaging has enabled convenience shopping, allowed for greater consumer choice, reduced food waste, freed up leisure time and contributed to food hygiene and security.

Conversely...

At the same time packaging has become the subject of much media attention as a symbol of a wasteful consumer society.

...A CONFUSED PICTURE





A changing picture... a positive response to the environmental challenge

Sainsbury's

reducing its own brand of packaging weight by 33% relative to sales by 2015

Source: website

TESCO

25% reduction across all packaging by 2010

Source: Nielsen

M MORRISONS

15% packaging reduction target by 2010

Source: Nielsen

Ahold

We are committed to reducing waste and encouraging people to recycle. Reducing waste means our business consumes less, which is good for the planet.

Wherever we operate we are focusing on improving energy efficiency and reducing our carbon footprint, by adapting our operations to limit their negative impact on the climate and the environment'.

Source: website

MARKS & SPENCER

25% reduction target by 2012

Source: Nielsen

Waitrose

recently signed up to support delivery of a new target to reduce the amount of food wasted in UK homes by 155,000 tonnes by 2010

Source: website

Carrefour

Over Euros 30m was spent in 2008 in energy reducing projects. The Group is committed to reducing its energy consumption by 20% per sq.m of sales area by 2020

Source: website

ASDA

zero waste to landfill by 2010

Source: website



What Sharp Interpack is doing...

Sharp Interpack has designed a practical response to the environmental challenge by:

Reducing:

- Optimising pack weights through design
- Maximising supply chain efficiency of our products

Recycling:

-Setting the pace for the re-use of recycled materials. A pioneer in the use of post consumer recycled waste from UK & Continental Europe into our APET meat and produce ranges. Now introducing post consumer recycle into our PP poultry and produce packs.

-Reformulating:

- Using material science skills to reduce carbon footprint





Reducing

With the introduction of heat sealing a weight saving of over 31% has been achieved in UK soft fruit 454g strawberry packaging. On top of this the new SPS 85 offers growers and retailers a 10% increase in crate fill due to its improved crate utilization.





Reducing

To the moon and back three times!

Sharp Interpack has won a Starpack award and a commendation in The Manufacturer Award 2008 for environmental good practice.

This was achieved through improved a-b denests and the use of r-PET across their range of meat, sausage and burger packs – reducing truck movements by 469 in one year – the equivalent of three return trips top the moon in a small diesel car.



Recycling

Incorporating post consumer waste into our products

r-PET Features:

Contains up to 100% recycled plastic waste from UK, Dutch, French and German sources
Maintains functionality and physical properties
Reduced consumption of virgin plastic
Avoids landfill or burning
Used in meat and poultry trays and fresh produce punnets

r-PP Features:

Contains up to 20% post consumer HDPE waste
1st thermoformer to do this
Maintains functional and physical properties
Reduced consumption of virgin plastic
Avoids landfill or burning
Used in poultry and produce trays



Recycling



Investing to make it happen

- **Extrusion technology developed to handle post consumer waste, including mixed plastic (PET/PE) streams**
 - An in house development, now externally accredited (by PIRA)
- **Investment in Laboratory facilities and skills to ensure product conformance**
 - Multi million Euro investment programme





Reformulating

Using material science skills

- To reduce reliance on virgin petro-chemical content whilst maintaining functionality

The 'Carbon Low™' PP punnet range offers the lowest carbon footprint in the market today – 23% lower than a standard polypropylene punnet. With materials sourced from the UK post consumer waste stream and incorporating natural minerals giving a soft, tactile feel 'Carbon Low' is a clear winner in produce packaging.

Our 'EcoPET' range uses high levels of recycled content to give a cost effective alternative to PET, OPS and thin gauge PP. It features high gas barrier and good low temperature impact resistance and is fully food contact approved. <http://en.sharpinterpack.com/uploads/fileEcoPET2.pdf>





Sharpak: Investing for sustainable success today, tomorrow... the future.

Reduce. Recycle. Reformulate

Environmentally responsible

Major, active users of recycled materials – r-APET, r-PP

International sourcing knowledge

expertise in quality material procurement

Broad market knowledge

dedicated team of sales/technical account managers

Research and Development capability

with on-site laboratory and a team of highly skilled R&D technicians

Consistent Investment philosophy





Our Meat and Poultry tray range in PET

Already developed as a good environmental solution

- Reduce

- Lightweighted and with good pallet utilisation

- Recycle

- Manufactured with r-PET

- Includes material from Dutch recycling stream





Environmental Milestones

Sharp Triumphs in Best Factory Award

Sharp Interpack and its Yate plant near Bristol outclassed notable global names as it received the top award for its commitment to health, safety and the environment in the prestigious Best Factory Awards. The lean programmes have also contributed to the impressive health and safety performance of the site. The plant has recently celebrated the achievement of half a million man hours worked without a lost time accident



Green Award Winner 2008

With a helping hand from Sharpak Cadburys triumphed in the Green Awards. Cadburys took the Best Green Packaging award for its foil-wrapped Eco Easter eggs at the Green Awards. The 'Treasure' eggs used the minimum of packaging materials. The black tray accommodating 8 Eco Easter eggs was made in an EcoPET – a material unique to Sharpak and purposely designed with the environment in mind.





1st for driving innovation - take a look at our achievements to date:

- | | | |
|-------------------------|--|--|
| <i>Produce</i> | up to 100% r-PET in soft fruit punnets | 1 st to develop a carbon – LOW (c-LOW), punnet 23% lower than standard PP combining a mineral filler with PCW |
| <i>Meat and Poultry</i> | up to 50% recycle in trays | 1 st to incorporate UK- post consumer HDPE in r-PP
1 st to introduce the padless trays |
| <i>Bespoke</i> | Up to 90% recycle in trays | 1 st to develop EcoPET easing the pressures on the environment through a closed loop, in house recycling system |

We're getting there...

