

Unlocking your business potential



Introducing our Horizon Scan service

What is our Horizon Scan service?

Horizon Scan is an in-depth review into the markets you operate in, your competitors and the products and services your competing with.

Horizon scan starts with detailed, primary research which develops into key business considerations and actionable outputs which will shape your business strategy, drive commercial excellence and enhance shareholder assurance and value.

Our Horizon Scans can be completed for any business, sector or product/service line.

Why you need it

- This key commercial activity often doesn't feature in business plans or BAU activities. However, having delivered many Horizon Scans for our clients we've seen how it unlocks new strategic direction and delivers significant commercial returns
- Our customers have secured ROI's between 10:1 and 50:1 based on our Horizon Scans
- Our work will mean you will know in great detail who your competitors are, what their published strategic plans are and what this may mean for your strategy
- Our work will highlight key market themes/trends and innovations enabling you to consider new strategies and commercial opportunities
- Our work will ensure you are fully aware of the latest news and legislation relevant to your market and how this may impact your business
- Our work brings together numerous insights and data points which will be translated into a strategic response and commercial opportunity plan
- o Horizon Scan will enable you to get ahead of your competitors and the market
- Horizon Scan has been a great investment for our customers. We'd love your company to benefit too.

How to get started

- Contact either Jenny Ledgar <u>jenny@ledgarconsulting.co.uk</u> or Rob Wainwright rob@ledgarconsulting.co.uk
- We'll meet you to understand more about your business, your market and what you'd like to achieve
- Once we've agreed the brief we'll begin your Horizon Scan and start the journey to delivering new commercial benefits



Horizon Scan example report

Food sector supply chain analysis and commercial response

2023

Produced by JLC Ltd





Food market themes

Food market themes and associated opportunities – Food waste & CO2 reduction is core

Key themes in the food sector

Key theme for food sector 1 Example

A public consultation on the revision of EU food contact materials (13th Jan 2023) coordinated by the consortium of the EU Horizon project R3PACK. As a result of the project, the European Commission is reportedly considering new policy options. They suggested that;

- Implementation of consumer reuse options at scale, quickest method of reducing plastic pollution
- EU legislation should uplift safe and sustainable packaging solutions.
- EU legislation must be developed to incentivise the use of alternative sustainable food packaging, especially fibre-based solutions

Key theme for food sector 2

Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci

Key theme for food sector 3

Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci

Key theme for food sector 4

Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci

Key theme for food sector 5

Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci

Key theme for food sector 6

Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci

Key theme for food sector 7

Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci

Key theme for food sector 8

Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci

Potential strategic and sales opportunities

Potential strategic/sales opp 1 Example

Active and Intelligent Packaging Industry Association - Aiming to accelerate uptake of smart packaging innovation across FMCG at every stage of supply chains and retail. Many of your competitors as well as convertors are end brands are members. Membership is free.

Potential strategic/sales opp 2

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

Potential strategic/sales opp 3

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

Potential strategic/sales opp 4

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

Potential strategic/sales opp 5

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

Potential strategic/sales opp 6

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

Potential strategic/sales opp 7

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

Potential strategic/sales opp 8

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

Potential strategic/sales opp 9

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

Food sector news

Latest news – European Union proposed legislation changes

BACKGROUND

- · What are they?
- What do they mean for the industry?
- Where do they fit into the overall approach?

TIMINGS

- Date for –xyz
- · Date for hjk
- Date for sdc

KEY TAKEAWAYS

- · Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede. Mauris et orci

WHAT DOES THIS MEAN FOR YOU

- What does your company need to know?
- What does your company need to do?
- · What to keep an eye on
- · Where to find further resources and updates

RISKS & OPPORTTUNITIES

- · Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- · Proin pharetra nonummy pede. Mauris et orci

Compiled Jan 2023

Paper-based packaging



While we will not be seeing fibre-based packaging entirely replacing plastics anytime soon – or at all – we can expect a continuation of big and small brands alike migrating to paper solutions for certain applications. From what people in the know have told me, I think we may be seeing some particularly exciting technical advances in the confectionery and snacking sector over the next year. (A number of big players as Nestlé, Mars Wrigley and Ritter Sport have of course already introduced their own paper-based lines.)

We'll almost certainly hear more from the paper bottles space – Paboco's solution, which has been trialled by companies including Carlsberg, Coca-Cola and Absolut, is a notable example.

This year we anticipate the roll-out of the next generation protype of this bottle which will also feature a paper closure from Blue Ocean Closures.

But there are other innovators in this space: Pulpex and Stora Enso's paper bottle solution is moving further towards full commercialization for 2023 with a partnership with Kraft Heinz on a potential paper-based ketchup bottle.

The development of more efficient – and more easily recyclable – barrier solutions for paper packaging are also ongoing and the coming year will no doubt see more examples in the field.

Dispersion coatings to replace polymer-based coated board for paper barriers are an interesting area to keep an eye on, with companies such as Walki and Kemira leading the way.

Improved barrier solutions for paper packaging are also of course in continuous development. For instance, several companies – Kotkamills, DSM and Kemira among them – are experimenting with dispersion coatings to replace polymer-based coated board for paper barriers.

Coveris announces new solution to recover and recycle waste on-site, producing recyclate for customers

2 DECEMBER 2022

Coveris has launched ReCover, a new business segment seeking to facilitate the sourcing, processing, and recycling of waste at Coveris sites to close its own loop and provide high-quality recyclates to third-party customers.

In line with the company's aims to reduce waste, ReCover is hoped to expand the company's recycling capacity and capabilities, thus decreasing pollution. It is also expected to support Coveris' customers with the resources to pursue their sustainability goals.

ARTICLE 3

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

ARTICLE 4

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

ARTICLE 5

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci
- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci

Just Eat extends partnership with CLUBZERØ reuse system

18 NOVEMBER 202

Following a successful 10-month pilot, Just Eat is scaling its partnership with CLUBZERØ to provide a returnable packaging system for corporate offices.

Designed to provide a zero-waste experience through a convenient packaging return scheme, the expansion will see over 80 restaurants and cafes in London and surrounding areas provided with reusable takeaway cups and containers.

Business customers will have a choice to opt-in for CLUBZERØ reusable packaging when placing an order with Just Eat for Business from a range of participating restaurants or cafes through the Just Eat for Business platform. After the food has been eaten, the packaging will be collected by CLUBZERØ to be washed centrally and redistributed for reuse.

Mondi and FRESH!PACKING announce recyclable kraft paper cooler bag for consumers to transport cold food

16 DECEMBER 202

Mondi has collaborated with FRESH!PACKING to design a certified recyclable, reusable kraft paper cooler bag for the protection and transportation of chilled and frozen goods from a point of purchase to a consumer's home – reportedly improving its cooling protection by up to 2.5 times.

Compatible with existing European waste paper streams, the Fresh!Bag's kraft paper outer layer hopes to replace the multi-material packaging of traditional designs and increase their recyclability. The bag's cooling element is made of pulp encased inside the kraft paper, and its handle loops within itself to form an open seal for extra security and convenience.

ARTICLE 3

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

ARTICLE 4

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

ARTICLE 5

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci
- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci

Food sector news – smart technology

AIPIA Congress Highlight: Temperature label combines RFID/NFC with visual indicator

13 DECEMBER 202



One of the new products on show at the AIPIA World Congress was Cleantech's Digital Temperature Indicator (DTI), an irreversible temperature label with visual and digital indication, integrated with a passive RFID or NFC transponder.

Cleantech and Beyond Ltd, a startup based in Thailand, is a deep-tech university spin-off specializing in advanced materials. It has developed the DTI, to enable temperature-tracking at item level and presents the status in both visual and wireless digital formats without any need for a battery. When an item is exposed to temperatures above a threshold point during transportation or storage, the status of the indicator irreversibly changes (both visually and digitally).

ARTICLE 2

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

ARTICLE 3

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

ARTICLE 4

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

ARTICLE 5

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci
- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci

Food sector news

Compiled Jan 2023

Amcor signs agreement with ExxonMobil for five-year supply of recycled polyethylene

12 DECEMBER 202

Amcor has announced a five-year deal with ExxonMobil to purchase an increasing supply of chemically recycled certified circular polyethylene in a bid to reach its goal of 30% recycled material across its portfolio by 2030.

The amount of PE supplied to Amcor through ExxonMobil's advanced recycling technology is set to rise yearly, with an annual volume of 100,000 tons expected to have been reached by the end of the five-year period. Amcor intends to apply the material across its global portfolio, and to the healthcare and food industries in particular.

Mondi provides Krissia surimi sticks with new recyclable, paper-based design

8 DECEMBER 2022

Mondi has provided Angulas Aguinaga with recyclable, paper-based secondary packaging for its Krissia brand chilled surimi sticks in the hopes of reducing its plastic content and increasing its recyclability.

Replacing the previous multi-material plastic solution, the new packaging is made of Mondi's FunctionalBarrier Paper, a flexible packaging solution thought to resist water vapour and moisture. It is said to be manufactured using responsibly sourced, renewable, and certified materials, and claims to feature a tear-resistant kraft base paper to ensure that the packaging is fully sealable and protects the product within.

Notpla launches seaweed-coated packs with grease and water-resistant properties

1 DECEMBER 2022

Notpla has launched a new range of grease and water-resistant packaging formats – with a plastic-free barrier made from seaweed. The solutions can either be recycled or home composted at end-of-life.

ARTICLE 4

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

ARTICLE 5

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna

- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci
- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci

Positive competitor news/PR

Compiled Jan 2023

26.05.22

Coveris launch recyclable, reduced plastic cheese packs for Iceland

Coveris have launched a range of recyclable, reduced plastic pouches for Iceland's grated cheese, supporting the retailer's commitment to become the UK's first plastic neutral supermarket.

Mondi provides Krissia surimi sticks with new recyclable, paper-based design

8 DECEMBER 202

Mondi has provided Angulas Aguinaga with recyclable, paper-based secondary packaging for its Krissia brand chilled surimi sticks in the hopes of reducing its plastic content and increasing its recyclability.

Replacing the previous multi-material plastic solution, the new packaging is made of Mondi's FunctionalBarrier Paper, a flexible packaging solution thought to resist water vapour and moisture. It is said to be manufactured using responsibly sourced, renewable, and certified materials, and claims to feature a tear-resistant kraft base paper to ensure that the packaging is fully sealable and protects the product within.

Stora Enso's pilot plant for a breakthrough bioplastic is well underway. What will happen next?

The launch of a new bioplastics pilot plant in the Flanders region in Belgium will enable a new bioplastics production technology, ready for implementation at industrial scale

Nov 3, 2022



Crumbl Cookies relies on Metsä Board's innovative packaging solutions

Key observations/ learnings

- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci
- Nunc viverra imperdiet enim. Fusce est.
- Vivamus a tefllus.
 Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Proin pharetra nonummy pede.
 Mauris et orci

DECEMBER 2, 2022

WestRock Acquisition of Grupo Gondi Complete

WestRock today announced it has completed the acquisition of the remaining interest in Grupo Gondi for \$970 million plus the assumption of debt.

Read more

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

Food sector supply chain and competitor scan

Summary of supply chain businesses – Board manufacturers

Business	Board producer	Convertor	Custom print	Board material	Product offering	Key strategies	Manufacturing	Good practice for you to consider replicating
Competitor A	y/n	y/n	y/n	xm T board capacity production (only y% of this in Europe) They use x% of produced materials in their own conversion businesses z% of sold on	Board xx different materials associated with Food sector manufacturing Converted products Product 1 Product 2 Product 3 Product 4 Product 5 Product 5 Product 5 Product 6 Product 7 Product 8	 x% of revenues are food and beverage. They estimate a CAGR rate of y% Vision - Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed Future direction – Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Sales channel strategy - xyz x% of the USD \$bn are consumer packaging (x% of this is foodservice). y% of consumer packaging sales are European. Targeting >\$x billion EBITDA (>x%) Large network of convert & distribution capabilities Meeting customer demand for sustainable e-commerce solutions through automation and fiber-based recyclable solutions. x% growth forc/st to Z% x% portfolio of recyclable, compostable or reusable packaging by 2025 abc and xyz are their highest margin board products 	 UK x Folding Carton sites; y Specialty printing x mills, x substrates No mills in Europe x% used in their own conversion, y% sold 	 Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci
Competitor B	y/n	y/n	y/n	Total consumer board production is xm T Main European site for FSB is abc Finland.	Board xx different materials associated with Food sector manufacturing Converted products Product 1 Product 2 Product 3 Product 4 Product 5 Product 6 Product 7 Product 8	 Sell to; convertors, brand owners & retailers Strong convertor collaboration producing White papers with the like of abc Lead circular packaging xyz packaging is their key growth strategy Targeting x% sales growth 2021 v 2030 Help customers replace fossil based materials and reduce CO2 Value chain collaboration to drive sustainability Key focus food & drinks market – no x in Europe for FoodS board More end conversion by them; corrugated board and cartonboard Large expansion of converted formed fiber products €xbn investment in xyz to increase consumer board production 2030 v 2021; >x% sales increase, EBIT 2x, fully integrated board capacity with internal pulp Increasing their packaging materials division (€xbn x% of group) >€xbn Full adoption circular guidelines by 2025 x% recyclable products 2030 	X board mills (x in Europe) z packaging units (z in Europe) Main European site for FSB is abc Finland. They produce xm T per year (total board) xm pieces year of formed fiber produced in xyz Sweden	Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci
Competitor C	y/n	y/n	y/n	abc	def	• ghi	• jkl	mno
Competitor D	y/n	y/n	y/n	abc	def	• ghi	• jkl	mno

Summary of supply chain businesses – Convertors

Business	Board producer	Convertor	Custom print	Board Provider	Product offering	Key strategies	Manufacturing	Good practice for you to consider replicating
Convertor 1	y/n	y/n	y/n	Company a	Press Board / Ovenable Board trays Square trays x designs Rectangular trays x designs Round trays x designs Other shape e.g. Multi compartment trays, oval trays x designs Supply heat sealing machines	 Vision - Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas portitor congue massa. Fusce posuere, magna sed Future direction – Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Play on British manufactured as a USP 21/22 turnover up x% to £xm UK turnover £xm, Europe £x, Other £x Profit b4 tax increased to £xk (£xk '20) EBITDA x% Strategy to increase range of products and services x employees down x from year before x stock lines, hold x registered designs, patents and trademarks, in excess of xk designs in their database 	X manufacturi ng sites	 Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris
Convertor 2	y/n	y/n	y/n	Not disclosed	UK manufactured products Product 1 Product 2 Product 3 Product 4 Not produced outside the UK Product 1 Product 2 Product 3 Product 3 Product 4	 xm Euro annual sales across Europe across three divisions – films, flexibles and paper Existing markets; Food, pet food, industrial, medical, agricultural, home and personal care Growth plans in existing & diversified markets. Establishing a stand-alone Business Unit entirely dedicated to circular economy and closing the loop. abc is a platform for all mechanical recycling activities. Purchased existing tech in abc with xT capacity Invested over £xm to expand its xyz manufacturing capabilities. Bought two MPS flexographic wide web presses & made further site infrastructure improvements (abc site). Growing abc business with £xm transformation investment across two production sites last 2 year. Growth through acquisition. March 2021 acquired abc producer xyz Packaging. Supports our growth strategy in high performance xyz 2020 invested around £xm to double the footprint of the xyz Labels 	X sites UK = x France y, Germany z, Austria x, Hungary y, Middle East z	 Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris
Convertor 3	y/n	y/n	y/n	Company b	abc	• def	• ghi	• jkl
Convertor 4	y/n	y/n	y/n	Not disclosed	abc	• def	• ghi	• Jkl
Convertor 5	y/n	y/n	y/n	Company b	abc	• def	• ghi	• jkl
Convertor 6	y/n	y/n	y/n	Not disclosed	abc	• def	• ghi	• Jkl

Single slide produced for each competitor

Board provider

Who supplies them

Strategy & innovation

- x% of revenues are food and beverage. They estimate a CAGR rate of y%
- · Vision Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed
- Future direction Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.
- Sales channel strategy xvz
- x% of the USD \$bn are consumer packaging (x% of this is foodservice). y% of consumer packaging sales are European.
- Targeting >\$x billion EBITDA (>x%)
- Large network of convert & distribution capabilities
- Meeting customer demand for sustainable ecommerce solutions through automation and fiber-based recyclable solutions. x% growth forc/st to Z%
- x% portfolio of recyclable, compostable or reusable packaging by 2025
- abc and xyz are their highest margin board products

Manufacturing

X sites – Capacity x UK = xFrance v. Germany z,

Board products, food products, converted products, added value products

Board

xx different materials associated with Food sector manufacturing

Converted products

Product 1

Product 2

Product 3

Product 4

Product 5

Product 6

Product 7

Product 8

Structure, markets, sales channels, margins

Channel to market

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed



LAUNCHING **PRODUCTS**

FUTURE PRODUCTS





Value chain collaboration driven by sustainability



SERVING THE WORLD'S BEST CUSTOMERS IN FIVE GROWING MARKET SEGMENTS



Market trends identified by competitors

Any competitors identifying key market drivers and trends competitor 1

TREND 1 Example

The next billion consumers will come from emerging markets

- Growing globally, the middle class is expected to increase by 1.8 billion people in the next 10 years
- Coming from China, India, South East Asia and longer-term Africa
- Demanding safe access to affordable food every day, enabled by packaging
- Driving the need for local scale and cost competitiveness

TREND 2

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

TREND 3

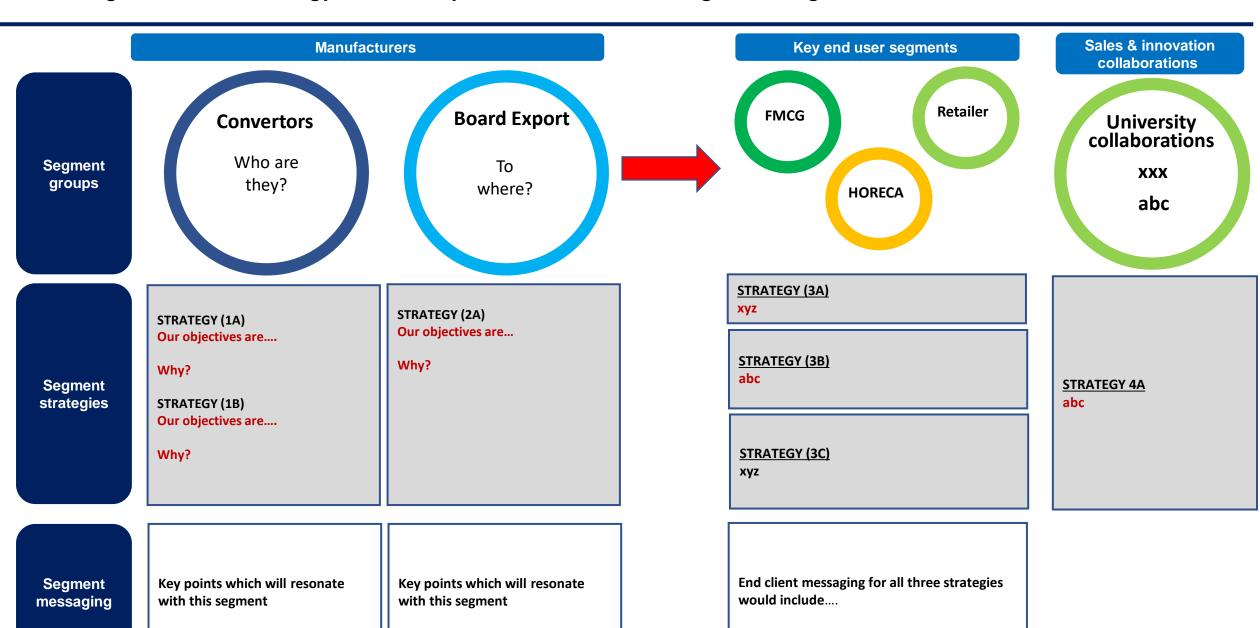
 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

TREND 4

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

Strategic response and sales opportunities

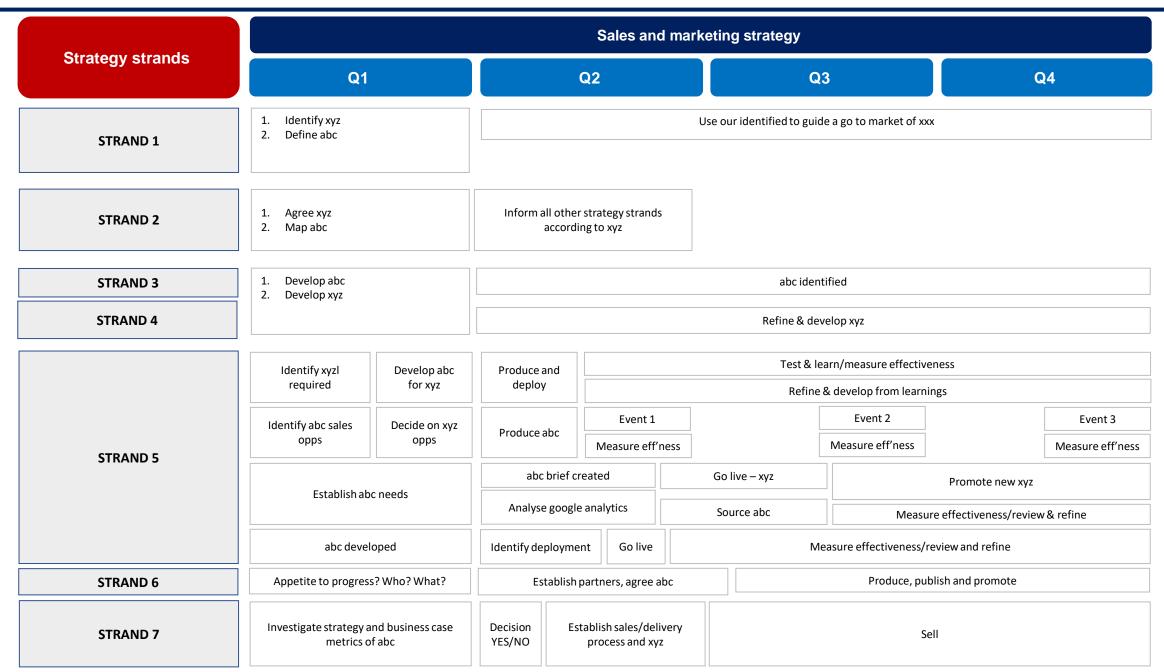
Sales segmentation strategy food – key sectors based on high value growth end use sectors



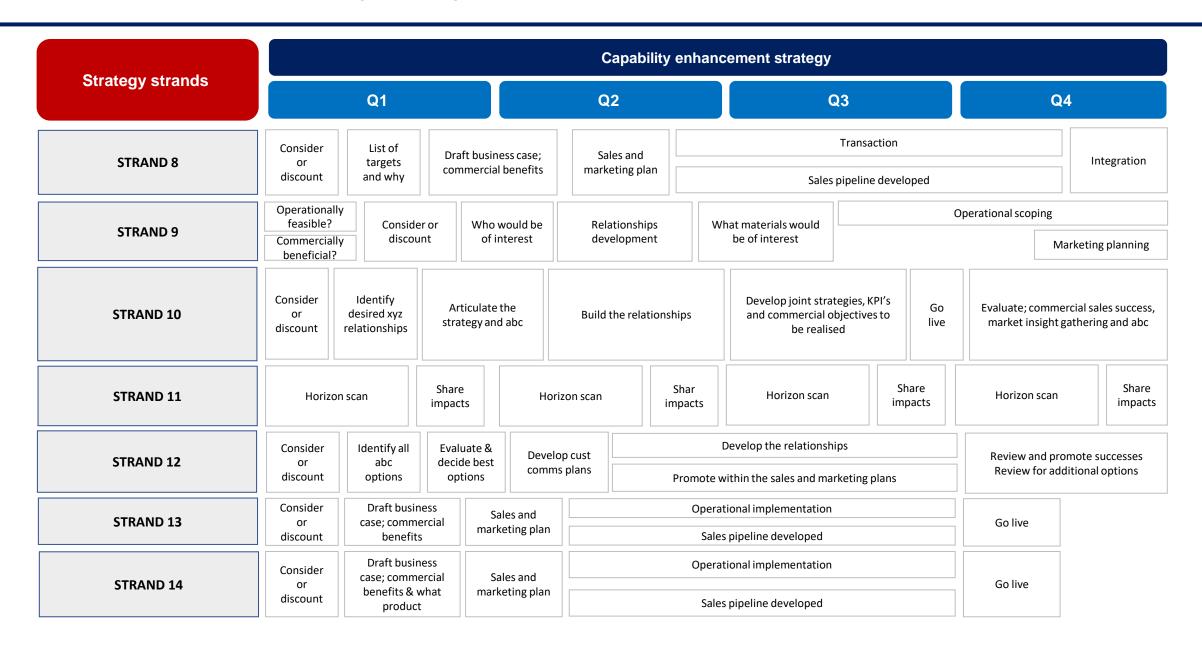
Ideas for sales objectives and food strategy strands

Strategies	Strategy strand	Benefit	Strategy area	
Convertors	STRAND 1 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	Compete		
STRATEGY (1A) STRATEGY TITLE STRATEGY (1B) STRATEGY TITLE	STRAND 2 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed pulvinar ultricies, purus lectus malesuada libero, sit amet commodo magna eros quis urna	New bus ££	Sales and marketing strategies	
STRATEGY TITLE	STRAND 3 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	New bus ££		
Board Export	STRAND 4 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	New bus ££		
STRATEGY (2A) STRATEGY TITLE	STRAND 5 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	New bus £££		
MCG & Retailers STRATEGY (3A)	STRAND 6 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	Compete	R&D strategy	
STRATEGY TITLE	STRAND 7 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	New bus £££		
STRATEGY (3B)	STRAND 8 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	Compete		
STRATEGY TITLE	STRAND 3 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	New bus £	Capability	
STRATEGY (3C) TRATEGY TITLE	STRAND 4 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	Compete	enhancements	
TRAILEGI TITLE	STRAND 5 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	Compete		
ales & innovation	STRAND 6 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	New bus ££		
STRATEGY 4A	STRAND 7 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	Compete		
TRATEGY TITLE	STRAND 8 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	Compete	Partnerships	
	STRAND 8 - Lorem ipsum dolor sit amet, consectetuer adipiscing elit.	New bus ££		

Sales and marketing strategies - high level project plan



Capability enhancement strategies - high level project plan

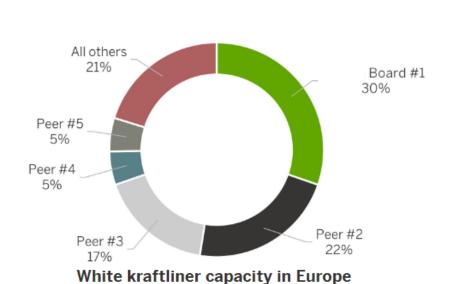


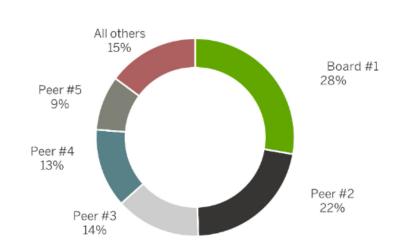
Deep dive into competitors and supply chain business's

COMPETITOR A

Competitor A – Board production capacity and demand comparisons

Folding boxboard capacity in Europe







Competitor A – Market metrics and strategic direction

Key metrics for competitor A Board division

- Production capacity at the abc mill is xK T Folding BB and xkT WKL
- In process of increasing FBB capacity by xk T p.a start H2 2023 €xm investment
- x% of FBB goes to US & x% Europe

Our strategy highlights solutions that promote the circular economy

We are a leading European producer of premium fresh fibre paperboards and a forerunner in sustainability. Our decision making is guided by our profitability and sustainability targets and the ambition to increase shareholder value. Our goal is to maintain a strong financial position and distribute a competitive dividend to our owners.

Near-term outlook

October–December 2022

- Paperboard delivery volumes are expected to remain stable or slightly decrease due to seasonal slowdown
- Average sales prices of paperboards are expected to increase slightly
- Strengthening US dollar improves profitability
- Demand for softwood market pulp is expected to remain stable. Several factors limit supply
- Cost inflation continues to be rapid in energy and chemicals, maintenance costs will increase from Q3
- Slowdown in global economic growth and weakening consumer purchasing power increase uncertainty and may negatively impact profitability

2.1

billion euros Sales in 2021 2.0

million tonnes

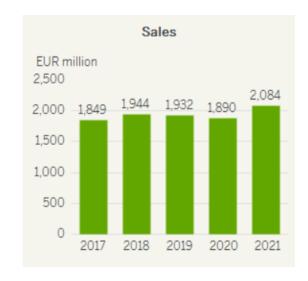
Annual paperboard capacity

8

Production units

2,400

Personnel at year end



Strategy

Our strategy is to grow in fibre-based packaging materials and renew our industrial operations.

We implement our strategy through five strategic programmes that drive sustainable growth in fibre-based packaging materials and industrial efficiency.



Premium supplier



Effective innovation



Safe and efficient operations and organic growth



Leader in sustainability



Motivated people

Competitor A – Food product groups

Folding boxboards



Folding boxboards

DOWNLOAD ±

THICKNESS: 350 - 650 µm GRAMMAGE: 200 - 340 g/m2

Fully coated folding boxboard, hard sized, GC2



Folding bexboards

DOWNLOAD &

THICKNESS: 310 - 610 µm GRAMMAGE: 195 - 345 g/m2

Fully coated folding bexboard, hard sized, OBA free



Folding boxboards

DOWNLOAD ±

THICKNESS: 310 - 610 µm GRAMMAGE: 175 - 325 g/m2

Folding boxboard, uncoated, hard sized. OBA free





Folding boxboards

DOWNLOAD ±

THICKNESS: 260 - 610 µm GRAMMAGE: 180 - 350 g/m2

Fully coated bleached paperboard with white reverse side

Barrier boards



Barrier boards

DOWNLOAD ±

THICKNESS: 310 - 610 µm GRAMMAGE: 175 - 325 g/m2

Folding boxboard, uncoated, hard sized. OBA free. PE coating reverse side (matt)



Barrier boards

DOWNLOAD ±

THICKNESS: 310 - 610 µm GRAMMAGE: 175 - 325 g/m2

Folding boxboard, uncoated, hard sized, OBA free, PE coating top (glossy) and reverse side (matt)



Barrier boards

DOWNLOAD ±

THICKNESS: 310 - 610 µm GRAMMAGE 175 - 325 g/m2

Folding boxboard, uncoated, hard sized, OBA free, PE coating top (glossy) and reverse side (matt)



Barrier boards

DOWNLOAD ±

THICKNESS: 260 - 610 µm. GRAMMAGE: 180 - 350 g/m2

Fully coated bleached paperboard with white reverse side, hard sized, PE coating reverse side (matt)



8 results View: ##

Sarrier boards

DOWNLOAD ±

THICKNESS: 310 - 610 µm GRAMMAGE: 195 - 345 g/m2

Fully coated folding boxboard, hard sized, OBA free, PE coating reverse side (matt)

White kraftliners



White kraftliners

DOWNLOAD ±

THICKNESS: 140 - 185 µm GRAMMAGE: 135 - 175 g/m2

Coated white top kraftliner



White kraftliners

DOWNLOAD ±

THICKNESS: 90 - 205 µm GRAMMAGE: 70 - 160 g/H/2

Fully bleached uncoated white kraftliner, also as fluting



White kraftliners

DOWNLOAD ±

THICKNESS: 120 - 250 µm GRAMMAGE: 125 - 250 g/m2

Double-coated white top-kraftliner



White kraftliners

DOWNLOAD ±

THICKNESS: 130 - 205 µm GRAMMAGE: 130 - 200 g/m2

Double-coated white top kraftliner

Competitor A – food product specs - Barrier

Product 1

Product description

Folding boxboard, uncoated, hard sized, OBA free, PE coating reverse side (matt)

End use

Frozen food, Chilled food, Trays, Plates

Features

Printing method Food contact Metsä Board mill Offset, Flexo Suitable for food contact* Husum

Structure



Product 2

Product description

Folding boxboard, uncoated, hard sized, OBA free, PE coating top (glossy) and reverse side (matt)

End use

Frozen food, Chilled food, Plates, Trays

Features

Printing method Food contact Metså Board mill Offset, Flexo Suitable for food contact* Husum

Structure 1) PE coating 2) Bisached chemical pulp 3) Bisached chemical pulp 4) Bisached chemical pulp 4) Bisached chemical pulp

5) PE coating

Product 3

Product description

Fully coated bleached paperboard with white reverse side, hard sized, PE coating reverse side (matt)

End use

Chocolate and confectionery, Frozen food, Food service

Features

Printing method Offset, I Food contact Suitable Metsä Board mill Husum

Offset, Digital, Gravure, Flexo Suitable for food contact*

Structure



- 1) Multiple blade coating
- 2) Bleached chemical pulp
- Bleached chemi-thermomechanical pulp (BCTMP)
- Bleached chemical pulp
 DE control
- 5) PE coating

Product 4

Product description

Fully coated folding boxboard, hard sized, OBA free, PE coating reverse side (matt)

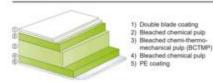
End use

Frozen food, Chilled food, Trays, Plates

Features

Printing method Food contact Metsä Board mill Flexo, Offset, Digital Suitable for food contact*

Structure



Competitor A – food product specs - FBB

Product 1

Product description

Fully coated folding boxboard, hard sized, GC2

End use

Foods, Beverages, Frozen food, Healthcare, General packaging, Retail-ready packaging

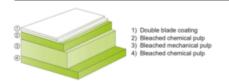
Features

Printing method Offset, Flexo, Digital Food contact EU Regulation (EC) No 1935/2004, USEDA21CER8178 17

USFDA21CFR§176.170*, USFDA21CFR§176.180*

Metsä Board mill Simpele

Structure



Product 2

Product description

Folding boxboard, uncoated, hard sized, OBA free

End use

Beautycare, Healthcare, Foods, Beverages, Frozen food, Chilled food, Trays, Plates, Folded trays, Fast food applications, Food service

Features

Printing method Offset, Flexo Food contact EU Regulation (EC) No

1935/2004, GB9685, GB4806.8, USFDA21CFR§176.170*, USFDA21CFR§176.180*

Metsä Board mill Husum

Structure



Product 3

Product description

Fully coated paperboard with dispersion barrier coating providing medium grease and moisture resistance, hard sized, OBA-free, free from fluorinated chemicals

End use

Fresh food, Packages for selected food service, Dry food

Features

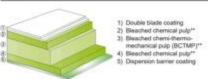
Printing method Offset, Flexo, Digital Food contact EU Regulation (EC)

No 1935/2004, USFDA21CFR§176.170*, USFDA21CFR§176.180*,

GB4806.8, GB9685

Metsä Board mill Kyro

Structure



Product 4

Product description

Fully coated bleached paperboard with coated reverse side

End use

Covers, Cards, Graphic applications, Point-of-sales materials, Beautycare, Healthcare, Consumer electronics, Chocolate and confectionery

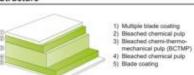
Features

Printing method Offset, Gravure, Flexo, Digital Food contact EU Regulation (EC) No 1935/2004, USFDA21CFR6176.170*.

USFDA21CFR§176.180*

Metsä Board mill Kyro

Structure



Product 5

Product description

Fully coated folding boxboard, hard sized, OBA free

End use

Foods, Beverages, Healthcare, Frozen food, Chilled food, Plates, Trays, Folded trays, Fast food applications, Food service, General packaging

Features

Printing method Flexo, Offset, Digital Food contact EU Regulation (EC) No 1935/2004, GB4806.8, GB9685.

USFDA21CFR§176.170*, USFDA21CFR§176.180*

Metsä Board mill Husum

Structure



Product 6

Product description

Fully coated bleached paperboard with white reverse side

End use

Chocolate and confectionery, Foods, Healthcare, Graphic applications, Beautycare, Consumer electronics, Covers, Cards, Beverages, Point-ofsales materials

Features

Printing method Offset, Digital, Gravure, Flexo Food contact EU Regulation (EC) No 1935/2004,

USFDA21CFR§176.170*, USFDA21CFR§176.180*

Metsä Board mill Äänekoski, Husum

Structure



- 1) Multiple blade coating
- 2) Bleached chemical pulp
- Bleached chemi-thermomechanical pulp (BCTMP)
- Bleached chemical pulp

Competitor A – food product specs - WKL

Product 1

Product description

Coated white top kraftliner

End use

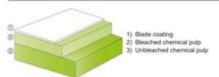
Retail-ready packaging, Foods, Beverages, Consumer electronics, Consumer durables, General packaging

Features

Metsä Board mill Kemi

Printing method Flexo postprint, Digital inkjet EU Regulation (EC) No 1935/2004, USFDA21CFR§176.170*, USFDA21CFR§176.180*

Structure



Product 2

Product description

Fully bleached uncoated white kraftliner, also as fluting

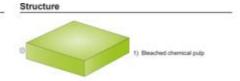
End use

Retail-ready packaging, Shelf-ready packaging, Point-of-sales materials, Foods, Fast food applications, Beverages, Bags, Beautycare, Consumer electronics, Consumer durables, General packaging

Features

Printing method Flexo, Offset, Digital inkjet Food contact EU Regulation (EC) No 1935/2004, USFDA21CFR§176.180*

Metsä Board mill Husum



Product 3

Product description

Double-coated white top kraftliner

End use

Retail-ready packaging, Shelf-ready packaging, Point-of-sales materials, Foods, Beverages, Consumer electronics, Consumer durables

Features

Printing method Flexo preprint, Flexo postprint, Offset, Digital inkjet EU Regulation (EC) No 1935/2004, USFDA21CFR6176.170*.

USFDA21CFR§176.170*, USFDA21CFR§176.180*

Metsä Board mill Kemi

Structure



Product 4

Product description

Double-coated white top kraftliner

End use

Retail-ready packaging, Shelf-ready packaging, Point-of-sales materials, Foods, Beverages, Consumer electronics, Consumer durables

Features

Printing method Flexo postprint, Digital inkjet Food contact EU Regulation (EC)

No 1935/2004, USFDA21CFR§176.170*,

USFDA21CFR§176.180*

Metsă Board mili Kemi

Structure



News according to their website

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

STORY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

Observation

- Lorem ipsum dolor sit amet,
- · consectetuer adipiscing elit.
- Maecenas porttitor congue massa.
- Fusce posuere, magna sed

Review of Competitor A's marketing activities and quality

PRODUCT SEARCHES

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

SALES ACTIVITY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

OTHER

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

WEBSITE REVIEW

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

NEWS & PUBLICATIONS

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

PR ACTIVITY

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

MARKETING RESOURCES

 Lorem ipsum dolor sit amet, consectetuer adipiscing elit.
 Maecenas porttitor congue massa. Fusce posuere, magna sed

Opportunity & learnings

- Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci
- Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed
- Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci
- Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Maecenas porttitor congue massa. Fusce posuere, magna sed
- Nunc viverra imperdiet enim. Fusce est. Vivamus a tefllus. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Proin pharetra nonummy pede. Mauris et orci