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Tim Van Cauwenberghe, Technical
Account Manager, Alpinter Group



Carole Manceau, Packaging Expert,
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PACKAGING MATTERS WEBINAR

The journey to
sustainable
packaging:
synergies between
humanitarian
organizations and
the private sector.



Tuesday 11th October
15:00–16:15 CET
09:00–10:15 ET

<https://tinyurl.com/Register-JI-Webinar>

**JOINT INITIATIVE FOR
SUSTAINABLE HUMANITARIAN
ASSISTANCE PACKAGING
WASTE MANAGEMENT**

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SUSTAINABLE HUMANITARIAN
ASSISTANCE PACKAGING
WASTE MANAGEMENT**

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FROM THE AMERICAN PEOPLE



CCCM CLUSTER
SUPPORTING DISPLACED COMMUNITIES



CATHOLIC RELIEF SERVICES

CONCERN
worldwide

DRC DANISH
REFUGEE
COUNCIL



Global Shelter Cluster
ShelterCluster.org
Coordinating Humanitarian Shelter



ICRC



IFRC



THE UNITED NATIONS
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Save the Children



from the British people



UNHCR
The UN Refugee Agency



UN
environment
programme



OCHA

**JOINT
ENVIRONMENT
UNIT**

TOGETHER
FOR A BETTER
RESPONSE



**World Food
Programme**

World Vision

PACKAGING MATTERS WEBINAR SERIES

Episode 1: “The journey to sustainable packaging: synergies between humanitarian organizations and the private sector”

Bringing sustainable changes to the humanitarian assistance packaging is a collaborative effort which needs to involve and consider various stakeholders including private sector partners such as suppliers of packaging and materials, and service providers. This webinar will present examples of how private sector partners are helping humanitarian organizations to incorporate sustainability into their work, thereby reducing their environmental footprint, using collaborative and holistic approaches.

Two private sector partners ([Alpinter](#) & [Mondi](#)) will provide their insights into how they can help to make changes to packaging to encourage sustainability, drawing on collaboration with their humanitarian partners. This will be followed by open questions and answers session aimed at identifying possible challenges and enabling factors for the humanitarian sector to make sustainable changes to packaging. An outcome document and the webinar recording will be shared later.

Speakers

- Agathe Tiberghien, Director of Operations, Alpinter Group
- Tim Van Cauwenberghe, Technical Account Manager, Alpinter Group
- Carole Manceau, Packaging Expert, World Food Programme
- Susan Brunner, Senior Sustainability Positioning Manager, Mondi Group

Time	Session
15h-15h10 CET	Opening and scene-setting
15h10-15h30 CET	Introductions to Alpinter and Mondi
15h30-15h50 CET	Practical examples of how partnerships for packaging sustainability
15h50-16h10 CET	Questions, answers, and discussions
16h10- 16h15 CET	Wrap up

What potential challenges are there in making humanitarian assistance packaging more sustainable?

Mentimeter





Together we
make MONDI...
SUSTAINABLE by
DESIGN



WFP Aid Organisations Talk
11 October 2022



What does MONDI do?



Sustainable by Design

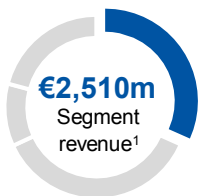
A market leader in sustainable packaging and paper

PACKAGING

Corrugated Packaging



We produce containerboard which we use to make a broad range of solutions designed to keep our customers' products safe and differentiated in-store and online

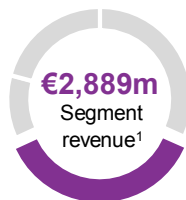


- #1 virgin containerboard producer in Europe
- #1 containerboard producer in Emerging Europe (EE)
- #2 corrugated solutions producer in EE

Flexible Packaging



We produce kraft papers for strong, paper-based packaging, such as paper bags, and plastic-based flexible solutions for extra functionality and protection



- #1 kraft paper producer globally
- #1 paper bag maker in Europe/global leader
- #3 consumer flexible packaging maker Europe

OUR AWARD-WINNING SOLUTIONS
ARE UNDERPINNED BY CLOSE
COLLABORATION ACROSS
OUR VALUE CHAIN

Uncoated Fine Paper

We produce sustainable home, office, professional and converting printing papers, tailored to the latest digital and offset technologies

- #1 uncoated fine paper supplier in Europe
- #1 uncoated fine paper producer in South Africa

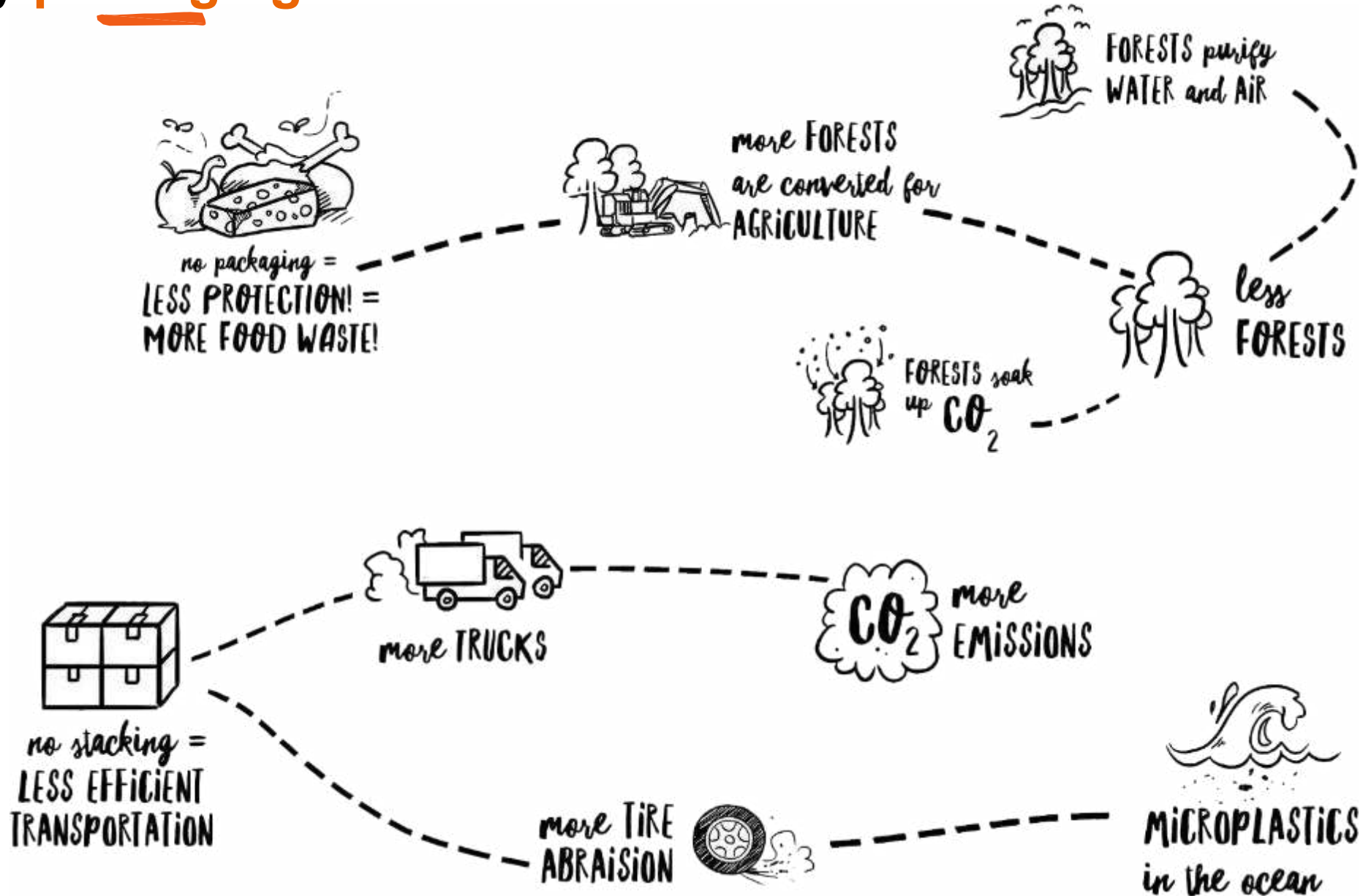
€1,652m Segment revenue



What is Mondi's approach to sustainable packaging



Why packaging is needed



Packaging as part of the solution



The problem

- Over-packaging
- Barrier requirements
- Insufficient usage of material alternatives
- Pollution/waste in environment and oceans



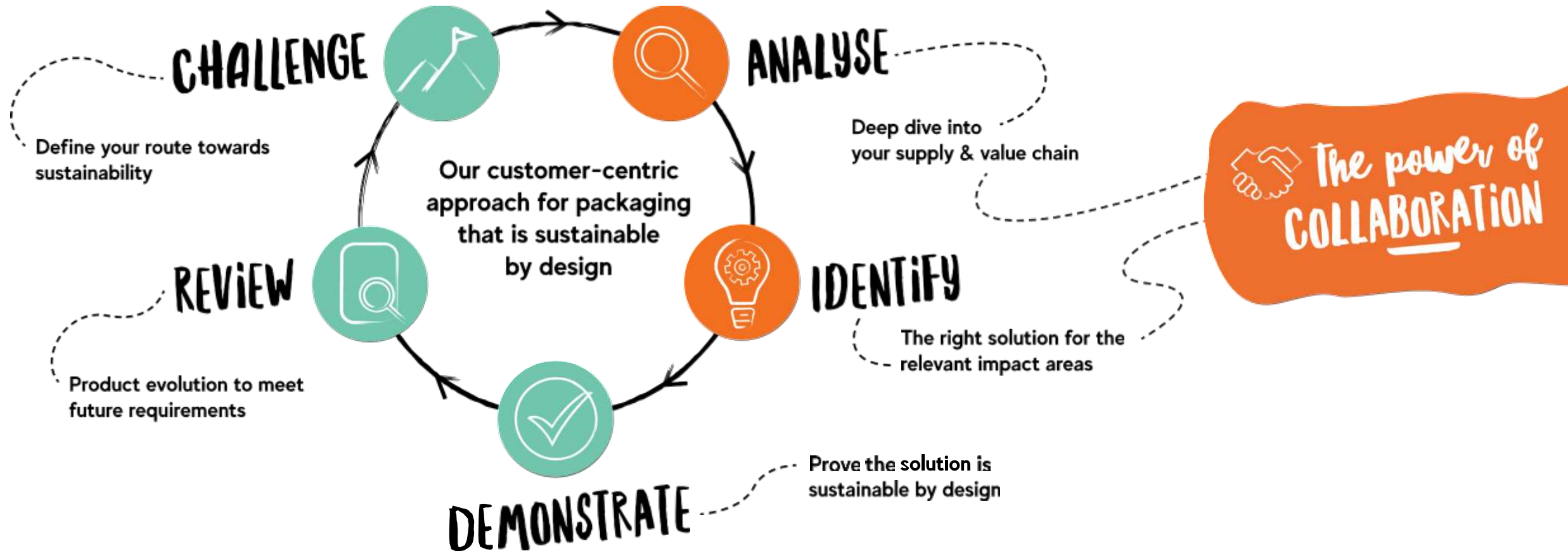
Part of the solution

- + Product protection
- + Transport optimisation
- + Optimal material usage
- + Effective communication

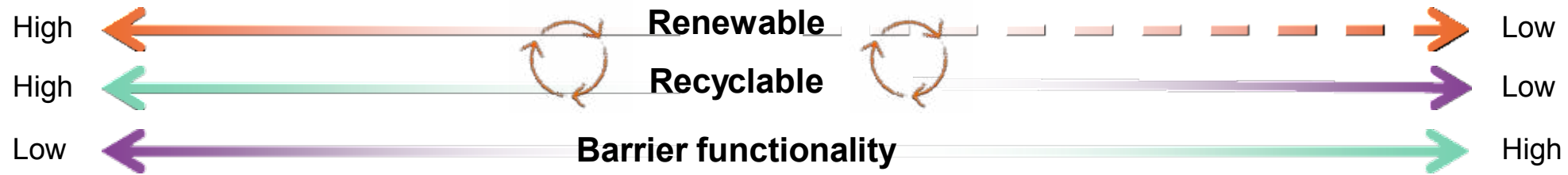
There's **no single route** to sustainability

It's all about...





We offer unique solutions ranging from renewable paper to recyclable plastic



PAPER WHERE POSSIBLE...

...PLASTIC WHEN USEFUL

Replacing plastic with paper based solutions

REPLACE



EcoVantage:

Replacing plastic bags with sustainable and efficient paper alternatives



Advantage Smooth White Strong:

Paper based packaging for pasta, with the option for a large paper window



PerFORMing Monoloop:

Formable paper-based food tray that reduces CO₂ emissions, with a plastic layer which can be separated from paper. Paper & plastic to be disposed in respective waste streams

Reducing environmental **footprint**

REDUCE



Advantage **Stretch Wrap**

Alternative to the plastic stretch film (62% lower greenhouse emissions compared to a pallet wrapped in conventional virgin plastic film)



Envelope**Mailer**

A 100% renewable, recyclable and highly protective alternative to LDPE or paper mailers that use bubble foil protective padding



Twin**Box**

Joining hood and tray through special gluing technology, this SRP allows usage of different papers. More sustainable brown paper for the hood, which is disposed after transport. White papers where print is needed for display.

Solutions designed for recycling

RECYCLE



RetortPouch **Recyclable**:

A mono-material recyclable pouches to replace multi-layer and unrecyclable packaging, with innovative high-barrier films that substituted the aluminium used in most solutions



Thermo**FORM**ing

A fully-recyclable mono-material high barrier film which has a significantly lower carbon footprint compared to existing solutions



Alu **Replacement**:

Replaces aluminium with a high-barrier mono-material that offers food protection and is recyclable where recycling streams are in place



Mondi's 'path to circularity' scorecard

Our new 'Path to circularity' scorecard, provides a harmonised approach to the definition of recyclable, reusable or compostable solutions, including thresholds and other key parameters

Mondi's path to circularity scorecard

For a Mondi product to be deemed circular, it has to have a sustainable end-of-life.

The below table sets out our defined parameters applied across our portfolio of packaging and paper solutions.

Sustainable end-of-life

(Recyclable and/or compostable and/or reusable)

Paper	Recyclable: >80% paper content ^a Unacceptable: PVDC, Wax coating, Aluminium foil, Fluorochemicals, Adhesives which plasticise, Permanent wet strength, Silicon, 2-sided polymer coating
Plastic	Recyclable: >80% PE or PP (mono materials), PO (mixed PE and PP) Unacceptable: PVC, PVDC, PET ^b , PA, Aluminium foil, Biodegradables Unacceptable above 5%: Other polymers ^e (EVOH, PVOH, acrylic, etc.)
Biowaste	Compostable: In accordance with EN13432 Reusable: Solutions designed for reuse for the same purpose as it was conceived

Recycled and/or renewable

We are also focused on increasing the usage of renewable materials and recycled content across our portfolio. To monitor progress, the thresholds defined below guide our classification when a product is considered to be made of recycled content or from renewable content.

Paper	Recycled content	≥51% ^{c, d}
	Renewable content	≥60%
Plastic	Recycled content	≥30% ^d
	Renewable content	≥30%

a. Paper content includes fibre, fillers and binders b. Unacceptable as co-material with polyolefins c. >15% for glassine, since larger share is not available d. Includes industrial, post consumer and chemical recycled content
e. Should not interfere with recycling processes

Sustainable packaging of the future is shaped by



Re-definition of sustainable packaging

From a materials view
to a holistic view:

- + End of life consideration
- + CO₂ impact
- + Food waste & damage considerations
- + Costs of ownership (incl. EPR)



Infrastructure & technology advancements

- + **New recycling streams & initiatives**
(Digital watermarking, Advanced mechanical & chemical recycling)
- + **Alternative raw materials**
(more paper-based innovations, recyclable mono-material, bio-based, compostable)



Circular economy initiatives

- + **Closed Loop** projects
- + **Design for recycling** guidelines
- + **Collaboration** with Capi, 4evergreen, Ceflex



Other factors

- + **Geo-political instability**
- + **Responsible sourcing** & shortage of raw materials
- + **Demands for responsible** eCommerce solutions
- + **Supply chain optimisation** (e.g. cargo space optimization, transport emission reduction)

... and Mondi is the **right partner** for the journey to sustainable packaging

Thank you

For questions please contact:

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SAVING
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LIVES

Mondi & WFP

A partnership to optimize packaging solutions

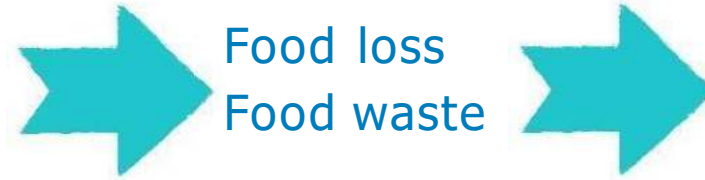
2022 October



Performance based challenges

Packaging failure due to:

- Poor sealing quality
- Microperforation
- Low barrier properties
- Pest infestation
- Wrong usage
- Inefficient sizing
- ...



Technical specification and quality processes

Environmental footprint

Supply chain efficiency

Beneficiary convenience





Demetalization



Different size of packaging



Leaking sachets



Pest infestation



Packaging waste

Partnership approach

Review and assessment

- *Assessment of packaging existing in WFP's portfolio and review if suitable in terms of:*
 - Format and size of packaging
 - Technical performance
 - Supply chain requirements (loading in container, in land transport, storage)
 - Focus on industrial bags, carton boxes, flexible packaging

Testing and quality implementation

- Based on the assessment, *undertake testing* to define if packaging types are suitable for WFP and identify improvements: packaging material, size, design.
- Packaging improvement Implementation and training
- Technical and quality guidance

Development and sustainability

- *Develop a plan* for reducing the impact of packaging on the environment (design, material, format)
- Building on the phases above, look to *continually drive improvements*
- *R&D work* to assess, analyze and trial packaging alternative materials to reduce environmental footprint of WFP packaging (e.g flexible metallized material)

Project 7: Quality processes

Project 7: Quality processes

Case study: HEB

- Objective

Investigate options to improve packaging definition in specification and technical expectation

- Achievements

- Improved process controls recommendations to food manufacturers
- Reinforced internal quality protocols
- Consolidated best in class specification

- Benefits

- Increase shelf life of biscuits
- Reduce food waste and loss





THANK YOU



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LIVES





ALPINTER

Sustainable Packaging

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ABOUT ALPINTER



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ABOUT ALPINTER

- Leading designer, manufacturer and supplier of tents and core relief items to the main NGOs and governments worldwide since 1988.
- Permanent stocks in its warehouses at strategic locations around the globe : Belgium, UAE, Pakistan, China, Bulgaria.
- Range of products : Family tents, Multipurpose tents, Blankets, Jerrycans, Tarpaulins, Shelter tool kits, Kitchen sets, Hygiene kits, Bedding items.



ABOUT ALPINTER

Weekly Production Capacity

- 2.500 Family Tents
- 250 Multipurpose Tents
- 60.000 Blankets
- 50.000 Tarpaulins
- 20.000 Hygiene Kits
- 30.000 Jerrycans
- 40.000 Mattresses



ONGOING PROJECTS

1. New fleece blanket made of 100% recycled material
Partners: Closed Loop fashion / GIZ / Nizam
2. Blanket life cycle assesment
3. Single use plastic removal. Partner: Shelter Box
4. “Greener” collapsible jerrycan
UNICEF Standard
5. Sustainable Hygiene kits
6. Eco tarpaulin project. (Led by ICRC)
7. Sustainable packaging

LOGISTICS OPTIMISATION

PALLETS OPTIMISATION

WHY? 85% of the goods are shipped by sea

Core Relief Items Pallet (CRI Pallet)

- Developed by Alpinter & approved by main agencies
- Measuring 117 x 75 cm instead of 80 x 120 cm
- Increasing container loadability by 25%

Metal Stackable Pallet

- Developed by Alpinter & approved by main agencies
- Container-optimised footprints
- Facilitating easy handling and stacking



PALLETS OPTIMISATION

Impact | Figures 2021

High thermal fleece blankets

- 1 million in 2021
- Result: 86 x 40ft HC containers less thanks to CRI pallets vs standard EURO pallet

Collapsible jerrycans

- 1 million in 2021
- Result: 10 x 40ft HC containers less thanks to CRI pallets vs standard EURO pallet

Tarpaulins

- 1,5 million in 2021
- Result: 62 x 40ft HC containers less thanks to CRI pallets vs standard EURO pallet



**REDUCING HUMANITARIAN AID DELIVERIES CARBON
FOOTPRINT + TRANSPORT COSTS SAVINGS**

Packing Unit Optimisation

High thermal fleece blankets

- 15 units per bales instead of 12
 - 25% increased loading rate
 - Transport costs savings + less packaging waste
- 80 x 40ft containers saved on a year production



Sleeping Bags

- 8 units per carton box instead of 4 units.
 - 15% increased loading rate
 - Transport costs savings + less packaging waste
- 20x40ft containers saved on a year production



Hygiene kits components

- 1 shampoo bottle of 60ml instead of 2x30ml
 - 1 body soap bottle of 60ml instead of 2x30ml
 - Less expensive + less packaging waste
- 20000 euros saved on a year production

PACKAGING MATERIAL



PACKAGING MATERIAL

1. Reusing Production Waste Material

- Tarpaulins bales made of production waste material (approx. 15K bales per year)
- Tent bags accessories made of production waste material (approx. 100K bags per year)

PACKAGING MATERIAL

2. Plastic Reduction





PACKAGING MATERIAL

3. Recycled Material

- Hygiene kit cardboard boxes: 80% recycled material (1 million boxes per year). White / colored printed boxes are still required.
- Switch for R-PET bottle for hygiene kits components (4 millions bottles per year)
- Recycled plastic strap material : in study
- Recycled material for blanket bales: in study



SECOND LIFE PACKAGING

SECOND LIFE PACKAGING

- Tent wooden boxes being reused as benches, storage, tables...
- Metal stackable pallet being reused as shelves or tables
- Tent bag designed to be possibly reused as back pack



CONCLUSIONS

- SMALL & SIMPLE CHANGES CAN HAVE A HUGE IMPACT :
Let's start with it !
- POSITIVE ECONOMICAL IMPACT
- NGOs TO ALIGN ON STANDARD PACKAGING

THANK YOU

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