



INNO-Pouch: Smart Pouches - Digital, Compliant, Tight

PRESENTER:

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Taghleef Industries (*Ti*) is one of the world's largest manufacturers of BOPP, CPP, biobased and biodegradable films for packaging, labels, industrial, and graphic arts applications.

Headquartered in Dubai, *Ti* is part of the Al Ghurair Group, a family-owned conglomerate with diversified interests and an expanding global presence.



Our Global Impact



500k

Tons of film
production capacity



11

Production sites spread
across 6 continents



2,900

Employees across a
multinational network



9

Innovative
brands



6

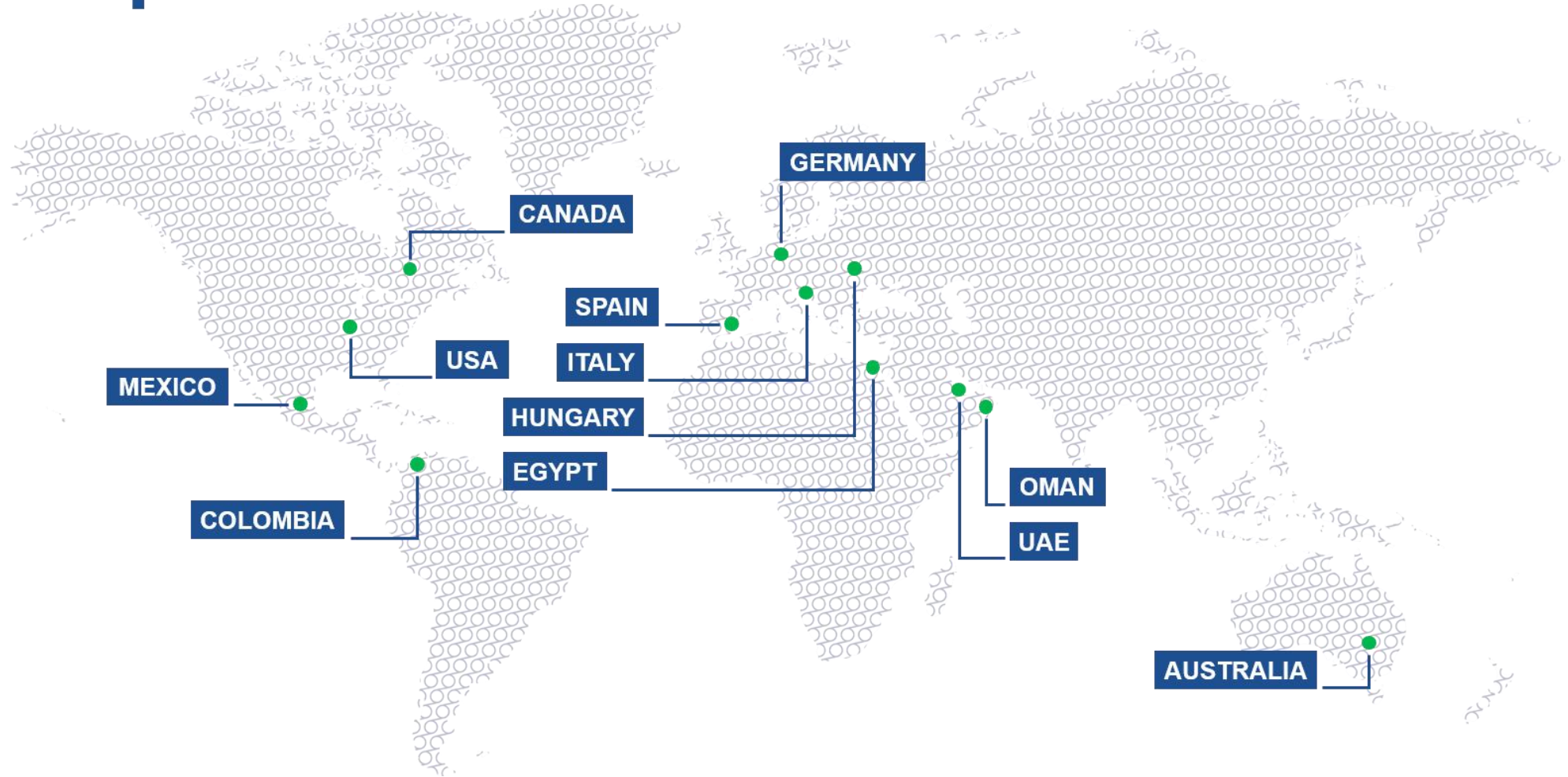
Highly advanced
R&D labs



100

Countries in which
products are sold

Our Corporate Locations



Innovative Films For Every Application



FLEXIBLE PACKAGING

High-performance films for food and non-food packaging that meet global standards and withstand demanding shelf and storage conditions



LABELS

Films optimized for speed, print quality, and consistent performance across all labeling formats



GRAPHIC ARTS & DECORATIVE SURFACES

Specialty films for premium lamination, tactile finishes, and durable overlays in packaging, print, and interior surfaces



films with recycled content or reprocessed by-product and bloPP films with biobased polypropylene

Innovative Solutions for Flexible Packaging



RECYCLABILITY



High barrier films with reduced weight, improved recyclability, and lower environmental impact



**OPP/OPP
Specialties**

Innovative and sustainable PP-based solutions compatible with polyolefins recycling streams

COMPOSTABLE



A new generation of biaxially oriented flexible packaging films made of biobased and biodegradable polymers, industrially or home compostable



Recycled polypropylene solutions for various applications that bring new life to used materials

RECYCLED CONTENT



A new generation of biaxially oriented flexible packaging films made of biobased and biodegradable polymers, industrially or home compostable



Sustainable solutions made from renewable resources of vegetable origin

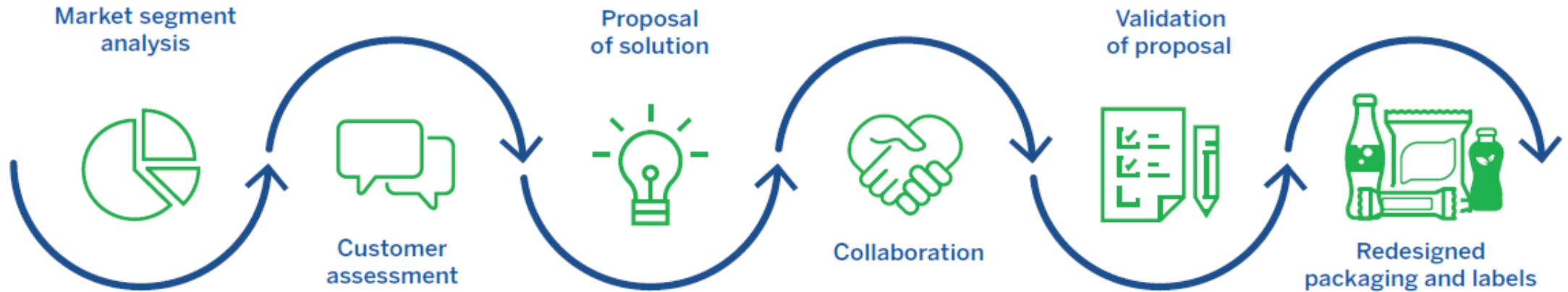
BIOBASED CONTENT

Dynamic Cycle Services



reDESIGN™ your packaging

Make the switch to Sustainable and Innovative Packaging, Labels and Graphic Arts film solutions



Make the switch from Traditional to Innovative and Sustainable Packaging

Ti's Solutions for POUCHES

Personal care & Cosmetics

Innovative structure

BOPP / EXTENDO® XZMU / Cast PP

Features

PP-based stand-up pouch centred on **EXTENDO® XZMU** - a high-performance barrier film purpose-built to replace aluminium foil in the most demanding flexible packaging applications.

Benefits:

- **Ultimate barrier properties:** **EXTENDO® XZMU** delivers exceptional resistance to moisture, oxygen, and light - matching the barrier standards previously achievable only with aluminium. Active collagen formulations remain stable and shelf-ready from fill date to consumer use.
- **Recycle-ready structure:** The resulting pouch is recycle-ready, meeting the material guidelines that retailers and regulators are increasingly requiring.
- **High performing packaging:** process with the same ease and reliability as a standard BoPP film.



Barrier properties:

OTR: 0.1 cm³/m²/d

WVTR: 0.15 g/m²/d

**Mineral oil and aroma protection
proven by third party laboratories**

OTR test method: ASTM D3985, @ 23°C, 0%RH
WVTR test method: ASTM F1249, @ 38°C, 90% RH

Personal care & Cosmetics

Innovative structure

Matt BOPP MMR / EXTENDO® XZMX / Cast PP

Features

PP-based stand-up pouch structure built around **EXTENDO® XZMX** - an ultra-high barrier film that keeps moisture out and fragrance in, without relying on aluminium foil to do it.

Benefits:

- **Moisture Locked out, Fragrance locked in:** **EXTENDO® XZMX** provides an ultra-high barrier against humidity and oxygen, keeping crystals free-flowing and fragrance blends intact.
- **Recycle-ready structure:** A PP mono-material structure replaces the conventional foil laminate with a packaging solution that is genuinely recycle-ready - no mixed materials, no greenwashing risk, no gap between what the brand says and what the pack delivers.
- **Distinct Shelf Appeal:** The soft, tactile appearance elevates the perceived value of the product inside and aligns naturally with the understated aesthetic that defines the modern wellness category.



Barrier properties:

OTR: 0.1 cm³/m²/d

WVTR: 0.1 g/m²/d

**Mineral oil and aroma protection
proven by third party laboratories**

OTR test method: ASTM D3985, @ 23°C, 0%RH
WVTR test method: ASTM F1249, @ 38°C, 90% RH

Medical & Healthcare

Innovative structure

BOPP / EXTENDO® XZMU / Cast PP

Features

This solution successfully integrates ultra-high barrier performance of **EXTENDO® XZMU** with the sustainability advantages of PP material structures, representing a highly efficient alternative to conventional, low-recyclable multi-material triplex laminates.

Benefits:

- **Outstanding product protection:** **EXTENDO® XZMU** technology ensures exceptional barrier performances against humidity, oxygen, aroma and mineral oils, guarantying the preservation of both functional and organoleptic properties, even in highly sensitive powder-based formulations.
- **Enhanced recyclability:** The transition from a conventional multi-material triplex structure to a PP-based solution, significantly enhances the overall recyclability of the packaging.



Barrier properties:

OTR: 0.1 cm³/m²/d

WVTR: 0.15 g/m²/d

**Mineral oil and aroma protection
proven by third party laboratories**

OTR test method: ASTM D3985, @ 23°C, 0%RH

WVTR test method: ASTM F1249, @ 38°C, 90% RH

Coffee Segment

Innovative structure

Heat resistant BOPP TTR / EXTENDO® XZMX / Cast PP

Features

PP-based coffee packaging structure built around **EXTENDO® XZMX** - an ultra-high barrier film engineered specifically for applications where moisture, oxygen, and aroma protection are critical.

Benefits:

- **Every Scoop as fresh as the day it was roasted:** **EXTENDO® XZMX** delivers outstanding protection against moisture, oxygen, and aroma migration - the three main enemies of coffee freshness. Flavour integrity is preserved throughout the entire supply chain, from the roastery to the kitchen shelf.
- **Recycle-ready structure:** Built entirely from PP, the structure enters the recycling stream cleanly - no foil layers to complicate sorting, no mixed-material penalties.
- **High performance packaging:** **EXTENDO® XZMX** is engineered for excellent machinability, processing on existing converting lines with the ease and predictability of a standard BoPP film.



Barrier properties:

OTR: 0.1 cm³/m²/d

WVTR: 0.1 g/m²/d

**Mineral oil and aroma protection
proven by third party laboratories**

OTR test method: ASTM D3985, @ 23°C, 0%RH
WVTR test method: ASTM F1249, @ 38°C, 90% RH

Food Segment

Innovative structure

BOPP / EXTENDO® XZMU / Cast PP

Features

The structure, enabled by **EXTENDO® XZMU** technology, combines reduced weight with a more sustainable profile, while providing effective protection against moisture, oxygen, and mineral oil.

Benefits:

- **Superior protection:** The integration of **EXTENDO® XZMU** within the stand-up pouch ensures a high level of protection, preserving the key characteristics of the product and enabling suitability for MAP conditions.
- **Recycle-ready structure:** The PP-based structure developed simplifies the recycling process, facilitating end-of-life management compared to more complex multi-material solutions.
- **Material saving and customer convenience:** The substitution of traditional glass jar with lighter flexible format allows a reduction in the overall weight, aligning with circularity principles while improving handling and convenience for the end user.



Barrier properties:

OTR: 0.1 cm³/m²/d

WVTR: 0.15 g/m²/d

**Mineral oil and aroma protection
proven by third party laboratories**

OTR test method: ASTM D3985, @ 23°C, 0%RH
WVTR test method: ASTM F1249, @ 38°C, 90% RH

Dry Food Segment

Innovative structure

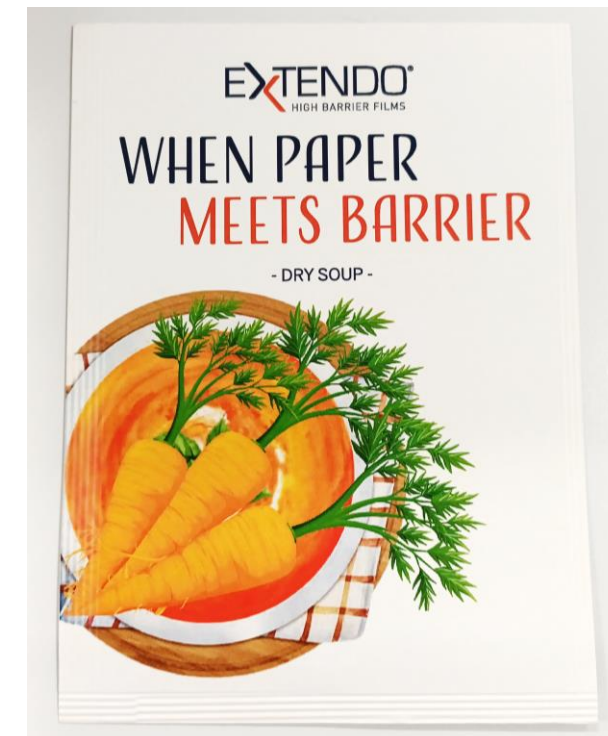
PAPER / EXTENDO® XZMX

Features

This solution is designed to replace the current multi-material structures made of PET/Alu/PE or PET/metPET/PE with a paper-based solution, ensuring the highest protection for the products while maintaining the recyclability of the packaging in the paper stream, according to the Aticelca method.

Benefits:

- **Superior protection:** **EXTENDO XZMX** offers excellent aroma preservation, ultra-high protection against oxygen and moisture and an effective barrier to mineral oils. Better protected, better preserved, the food has an extended shelf life and thus the food waste can be reduced.
- **Recycle-ready structure:** The structure designed ensures the recyclability of the packaging in the paper stream, while enriching paper of properties which is naturally missing, as barrier and sealability.



Barrier properties:

OTR: 0.1 cm³/m²/d

WVTR: 0.1 g/m²/d

Mineral oil and aroma protection proven by third party laboratories

OTR test method: ASTM D3985, @ 23°C, 0%RH

WVTR test method: ASTM F1249, @ 38°C, 90% RH

Household Products

Innovative structure

Transparent BOPP 20µm / D592 40µm

Features

D592 40µm: white voided film, designed to meet 35% mechanical PCR content target of PPWR by 2030



Our Flexible Packaging Expertise

PACKAGING SOLUTIONS
aligned with our **Strategic & Sustainability Initiatives**

Taghleef Solutions

EXTENDO®
product range

NATIVIA®
product range

Heat resistance
product range,
(OPET
replacement)

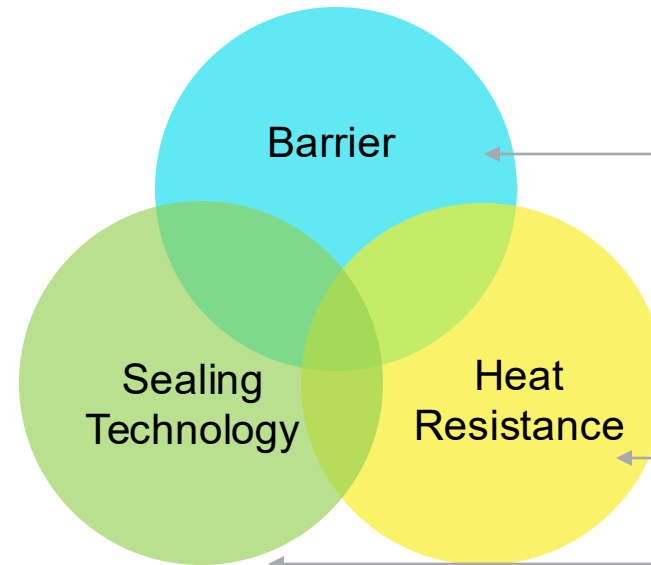
Seal technology
product range,
PP cast/ PE
replacement

Thin Films
product range

Coated Films
product range

b!oPP
product range

reLIFE™
product range



Packaging Drivers





Together We Innovate *For the Future Generations*

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