

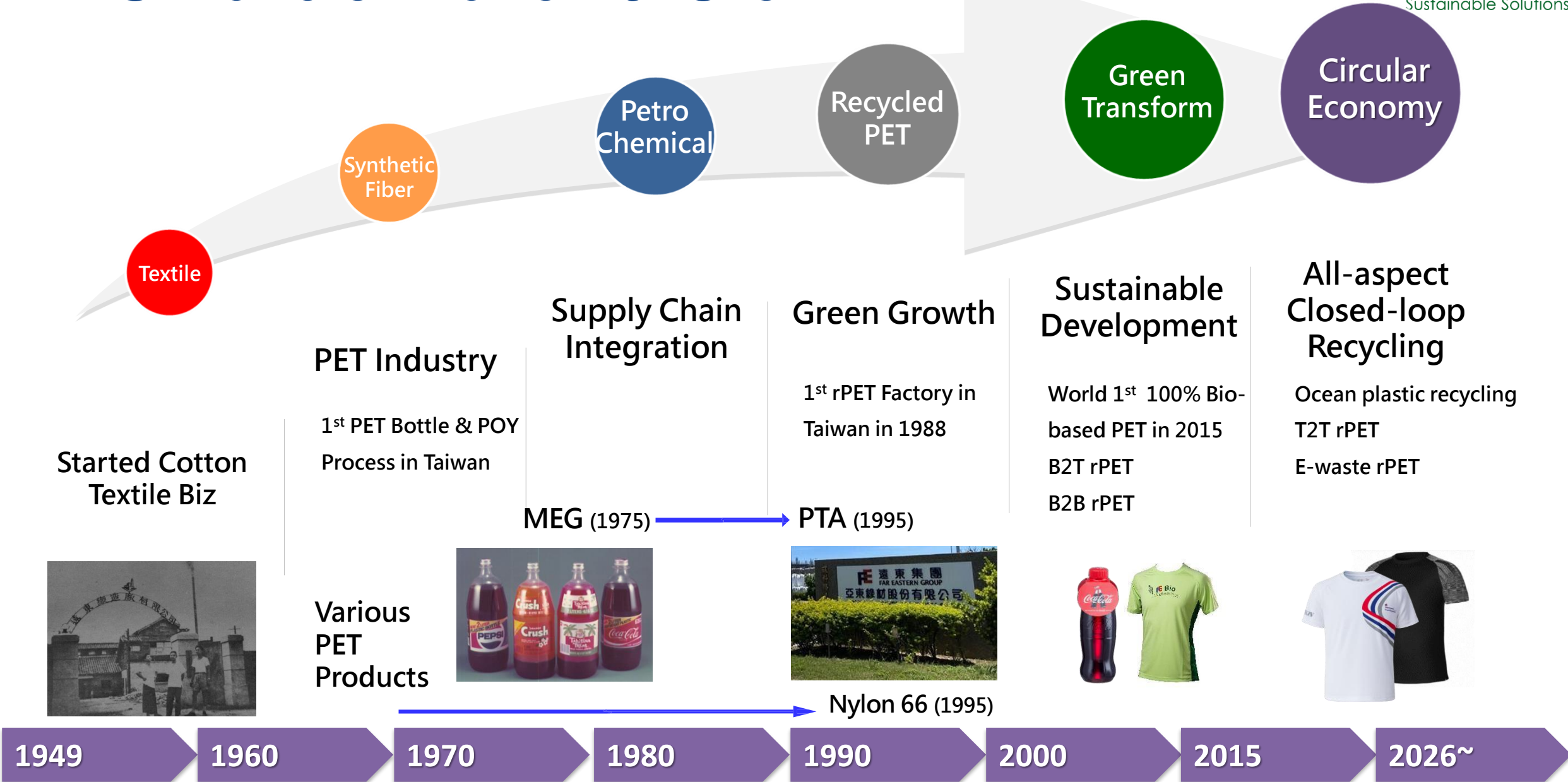


Collaboration and Partnership for a Sustainable Chemical Fibres Industry

Manager at Far Eastern New Century Corporation

Gloria Lien

FENC Transformation & Growth



Important Supply Partner of Global Brands

Textile



Packaging



Home



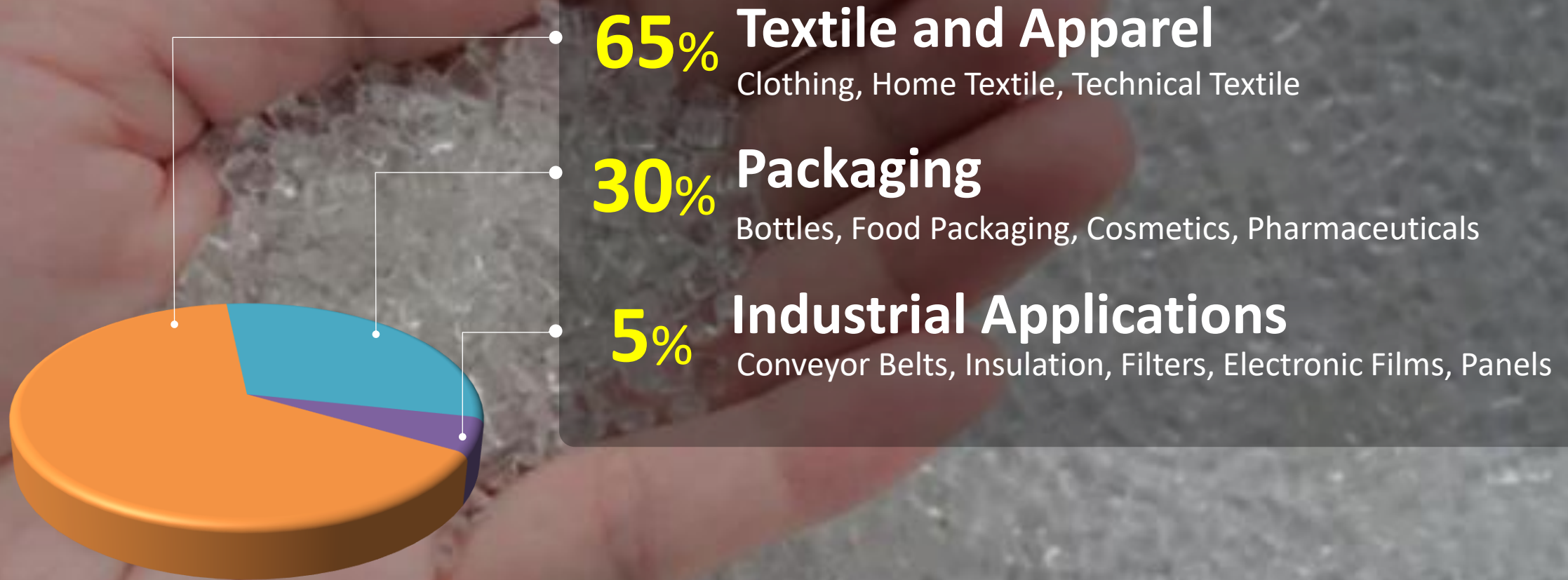
Automotive



- Pioneer**
- Recycled PET for tire cord
 - Chem. Recycled PET for air curtain



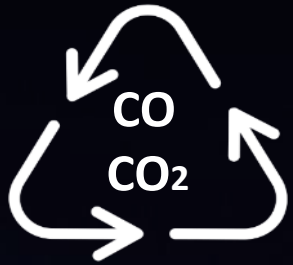
Global PET Application



Global PET Consumption: **90 million** tons/year

Sustainable Solutions from Land, Ocean and Air

from **Air**



Recycle Waste Gas

Capture waste gas to make PET

Save **30% GHG**

from **Ocean**



Recycle Ocean Wastes

Convert ocean plastic[®] to high value products

> **14,000 Ton**

from **Land**



Recycle Land Wastes

Bottle / Textile / E-waste circular recycling

Save **900,000 Ton CO₂e/year**

Collaborations with Brand Customers

Revitalizing Waste from Land, Ocean, and Air



2025 A Design Award
2024 IF Award
2023 Red Dot Award

2021: Lululemon / Zara
Received the ISPO Best Product Award, ITMF Award
Turn waste gas into apparels

2021: Collaboration with Continental AG
Tire cords made of recycled PET bottles.

2020~now: Japan Coca-Cola Bottlers
Collaboration – Chemical recycling technology: TOPGREEN® ChemCycle

2019~now: Collaboration with Coca-Cola and 7-Eleven in Japan.
Developed the 100% PET Closed Loop model with Coca-Cola and 7-ELEVEN in Japan.

2015~now: Collaboration with adidas & Parley
Transformed waste PET bottles from the ocean into new products with adidas and Parley for the Oceans.

2010~now: FIFA & NBA Uniforms Collaboration with Nike & Adidas
Created recycled polyester filament from post-consumer PET bottles, which debuted at FIFA World Cup as national team uniforms

Empowering a World of Sports

As the designated material supplier for major global sporting events, FENC provides eco-friendly & functional jerseys for national teams / professional players



Features of jerseys

- Sustainability development - 100% recycled polyester filament
Design innovative and green materials with least impact on environment
- Functional showcase – Smart textile
Unique wicking technology combined with material design, keeping it dry and comfortable



2024 Paris Olympic - France



2024 Australian Open



Euro Cup
Champion: Spanish



UEFA European League
Champion: Real Madrid



America's Cup
Champion: Argentina



Premier League
Champion: Manchester United



Support for FIFA World Cups toward 2026



9 national team jerseys

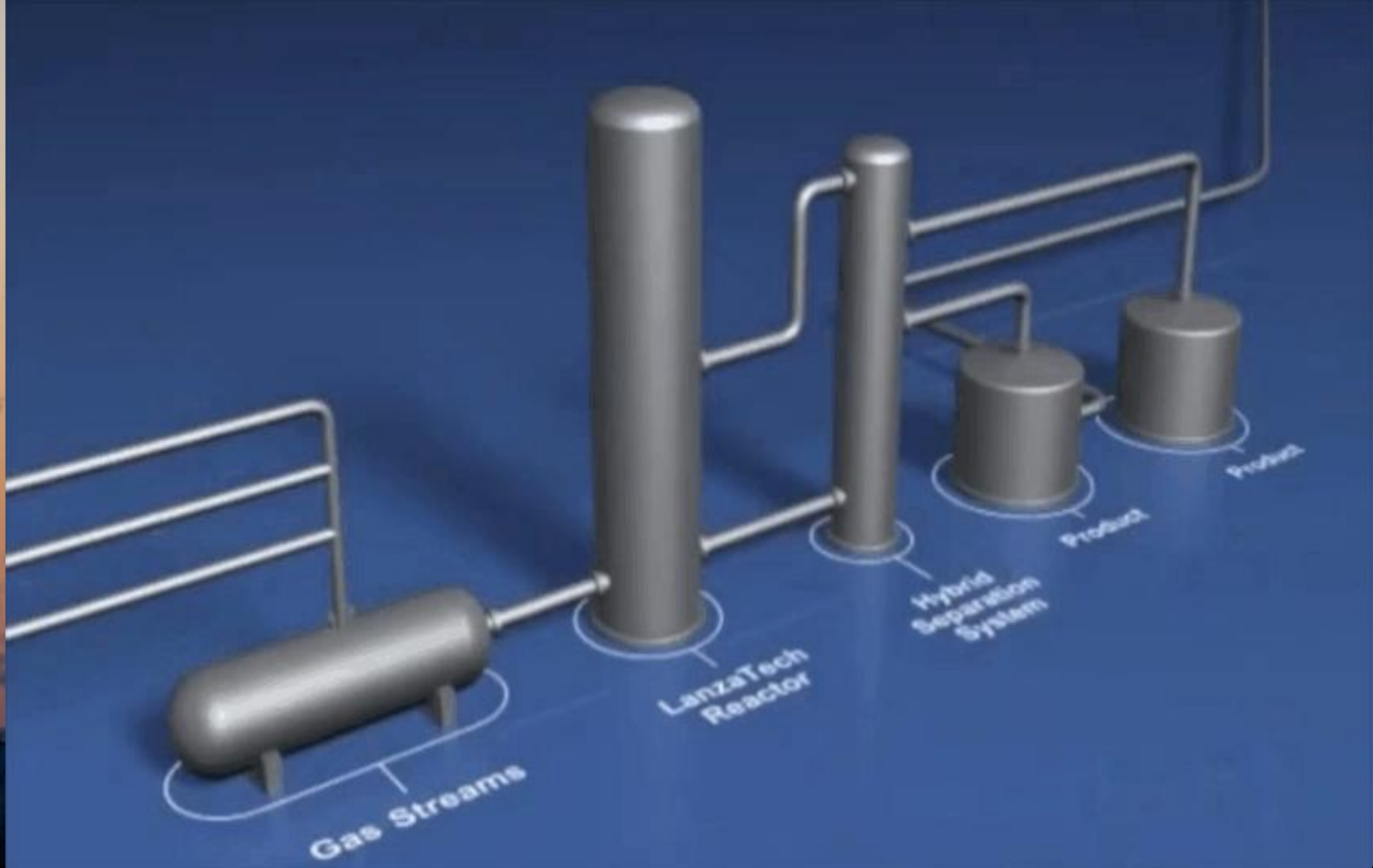
Argentina won 2022 FIFA Men's World Cup



11 national team jerseys

Spain won 2023 FIFA Women's World Cup

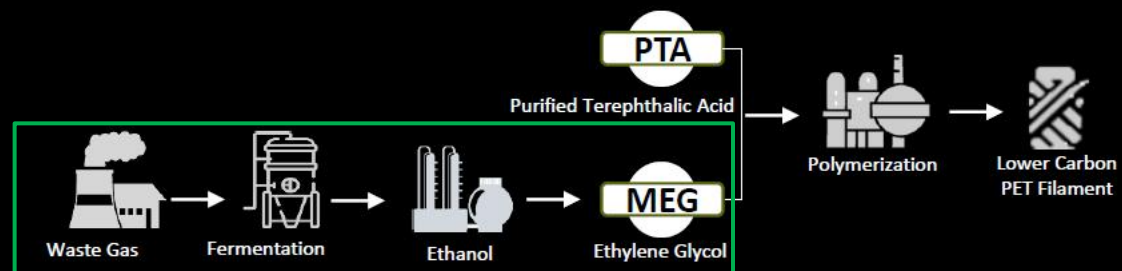




FENC Sustainable Solutions

Recycled Waste Gas PET

- Ferment steel mill **carbon waste gas** into ethanol, then CCU MEG.
- **CCU MEG + PTA** → **CCU PET**



Carbon Capturing Utilization

High Value Products Made of CCU PET



Capture industrial GHG



BioTech ethanol



CCU MEG



CCU PET



Empowering Global Fashion



-  **A' Design Award 2025**
-  **iF Award**
-  **Red Dot Award**
-  **ISPO Best Product**
-  **ITMF Sustainability & Innovation**

Transform Electronic Waste into Fabrics and Materials, Turning E-Waste into Eco-Excellence



Brand new R-PET Solution

E-Waste



R-PET Chips



R-Film



R-Fiber



Fabric Lamination



Electronic Waste : 3,000 tons/year



Green Mission for Global Brands



100% recycled poly,
15% for apparel T2T



By 2030, 10% of all
polyester from T2T



By 2030, source 100% preferred
polyester, with 25% from T2T



By 2030, 100% recycled
poly, 30% from apparel T2T



By 2030, all polyester material will
be transferred from B2T to T2T



A 2030 goal, 100% of products from sustainable
materials and end-of-use solutions.
10-year agreement with Samsara Eco (T2T)



Transition products to be
made from 100% recycled
materials

By 2030, making 100% of its textile
products from lower-impact materials



Sourcing 100% recycled or
sustainably sourced materials



100% of key products eco-
designed or circular

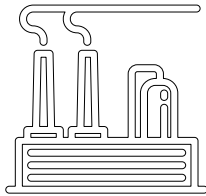


3 Pillars of Textile Sustainability

Textile Exchange 2030 Goal - End virgin fossil fibers; shift to **100% sustainable materials**.

Challenges - Over-reliance on rPET bottles faces risks of **textile waste neglect, resource competition, and new EU regulatory exclusions**.

1



Reducing Dependency on Fossil & Bottle rPET Sources

2



Expanding Textile-to-Textile Infrastructure

3

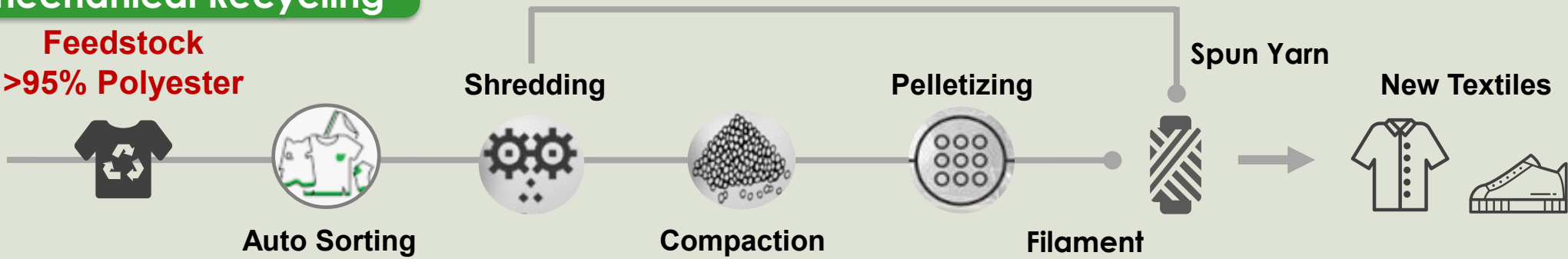


Advancing Low-Impact Next-Gen Materials

TOPGREEN® rTEX Recycling Solutions

Mechanical & Thermo-mechanical Recycling

Feedstock
>95% Polyester



Established PIR System



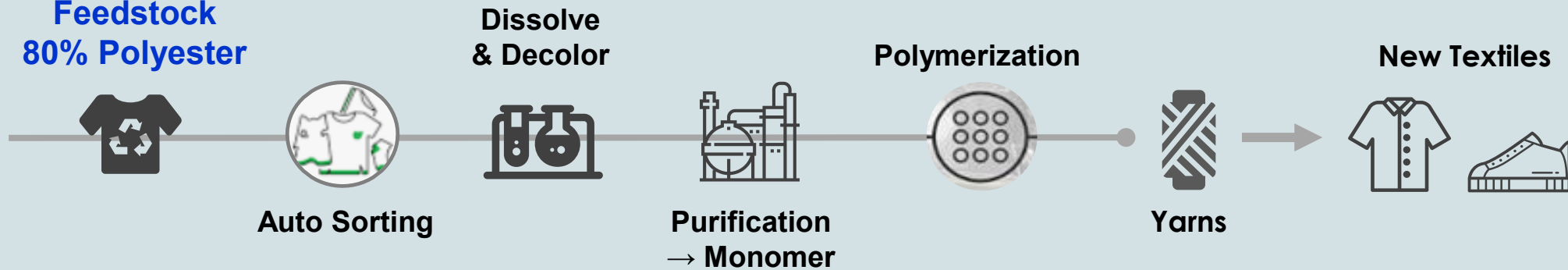
Matured Technology



Low Cost & LCA

Chemical Recycling

Feedstock
80% Polyester



Blended PIR/PCR Materials



Good Color & Quality



100% T2T Reusable



IKEA T2T PCR Closed Loop (1st Case in Taiwan)



Training Wear
 (Cont.)



Closed-loop
 Uniform



2023/2024
 FEG Marathon



Uniform/
 Workwear
 Programs

Salomon x FENC x Carbios

Successfully produced by FENC and CARBIOS using **enzymatic recycling** technology.

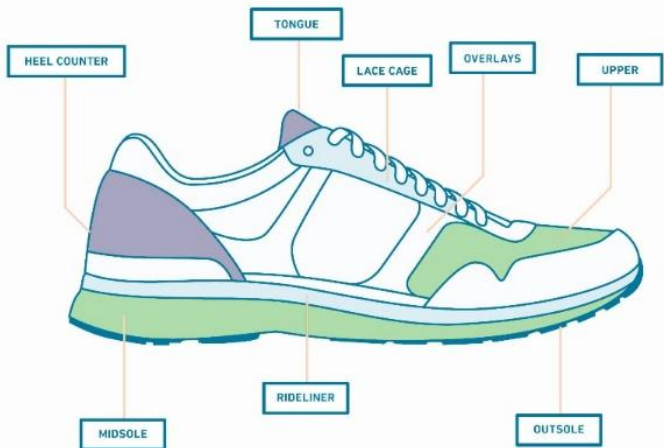


Recycled polyester used for Salomon XT_PURE uppers, debuted at **2025 Paris Fashion Week**.

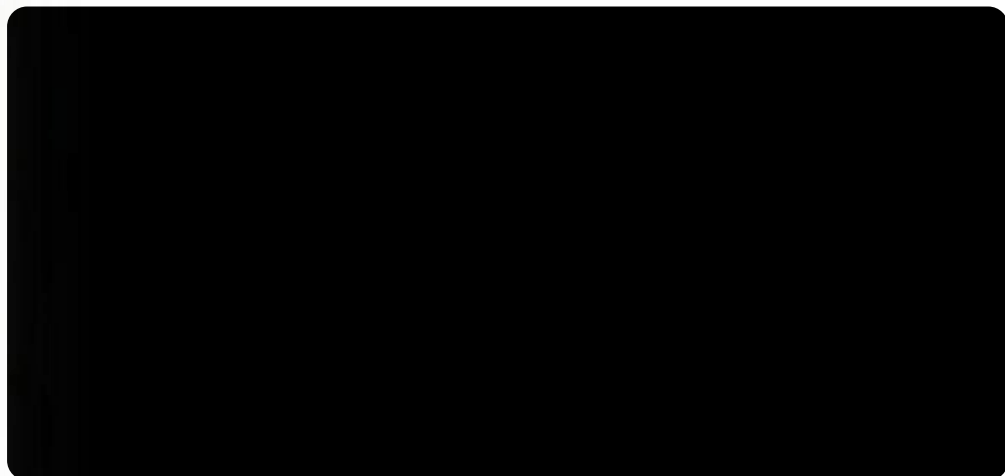
- High-purity r-PTA and r-MEG monomers **directly integrated** into FENC production lines
- Uncompromised quality and performance with significant potential for **large-scale application**
- Received **2025 ITMF International Collaboration Award**



Whole Shoes Made of TOPGREEN® rPET Components



Achieve the Target of Footwear Circularity



2023 TIME 200 Best Innovation



FENC® TOPGREEN® membrane is laminated on fabric. It is a post-consumer chemically recycled r-MPET product.



Mono-material zipper made of **FENC® TOPGREEN® rPET**.

Salomon x FENC Sustainable Midsole

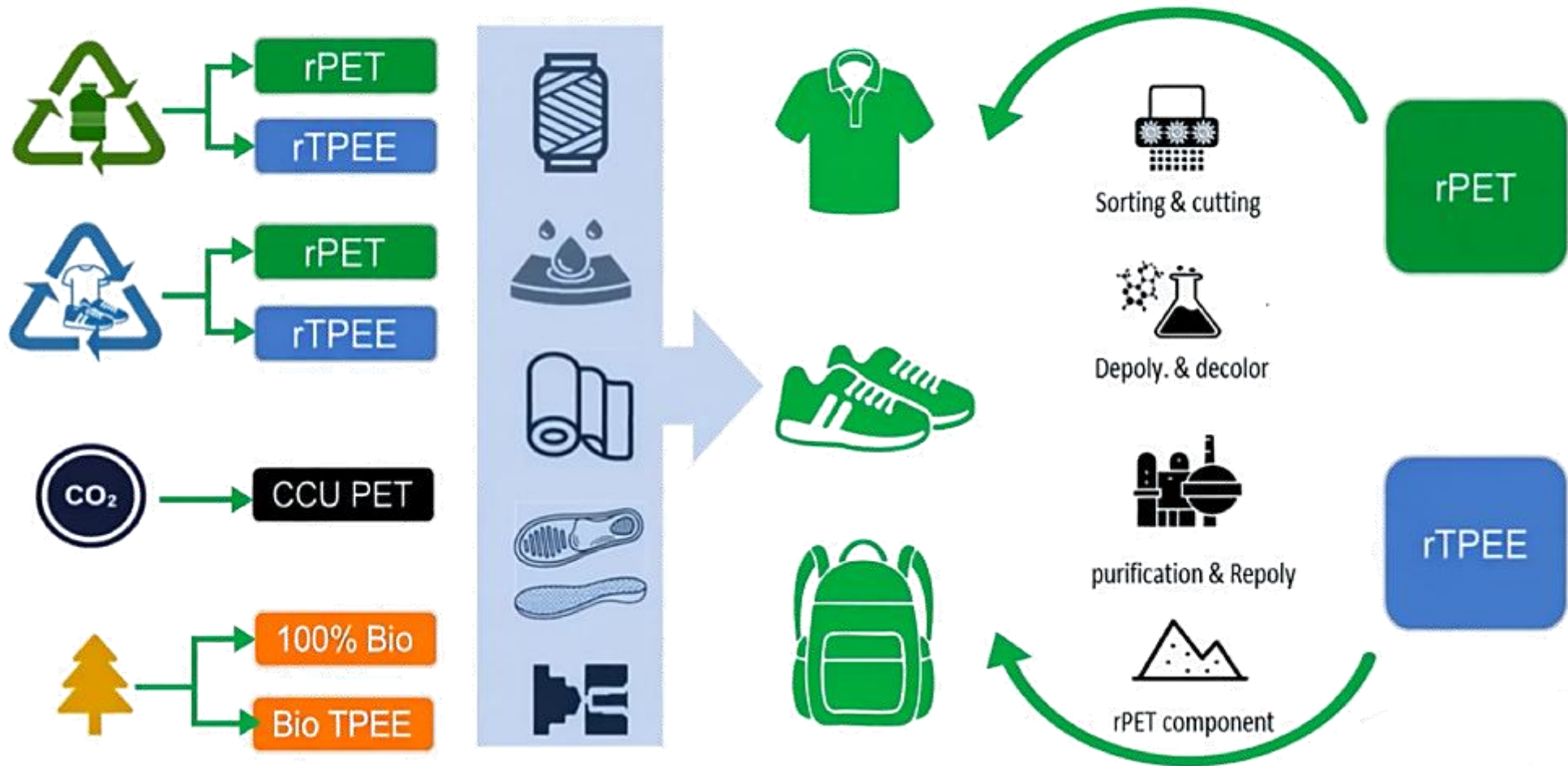


- **rTPEE Innovation:** First to convert rPET into high-elasticity midsole for Salomon's commercial production
- **Full Shoe Recyclable:** Replaces EVA to enable mono-material recycling and enhance sustainability

A Comprehensive Solution For Textile Circularity

Comprehensive recycling solutions covering entire apparel, footwear, and bags

MULTI-SOURCES SUSTAINABLE APPLICATIONS GREEN PRODUCTS CHEMCYCLING RECYCLEABILITY



Establish Circular Recycling Systems

2019 ~ to date

2021

2022 ~ to date

Japan

Taiwan

Vietnam



- 1st PET closed-loop recycling project in Japan

- PET closed-loop recycling project

- PET closed-loop recycling project

- Recycle waste home textiles and remake the new products.

- PET closed-loop recycling project



New Closed-loop System in Taiwan



- Project Started in Aug. 2025
- Goal to set up 100 collecting points
- Place : Neighborhood parks, social housing, mass transit systems.



Navigating a Green Future

Thank You

www.fenc.com