



# A GAME-CHANGER IN TEXTILE CIRCULARITY

AUTOMATED TEXTILE WASTE SORTING AND RECYCLING  
WITH A VERTICAL APPROACH

MARCH 2026

**ANDRITZ**

# OVERVIEW



**01** ANDRITZ GROUP &  
ANDRITZ NONWOVEN & TEXTILE

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**02** ANDRITZ TEXTILE  
RECYCLING SOLUTIONS

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**03** CONCLUSION



01

# ANDRITZ GROUP & ANDRITZ NONWOVEN & TEXTILE

# WORLD MARKET LEADER WITH FOUR BUSINESS AREAS



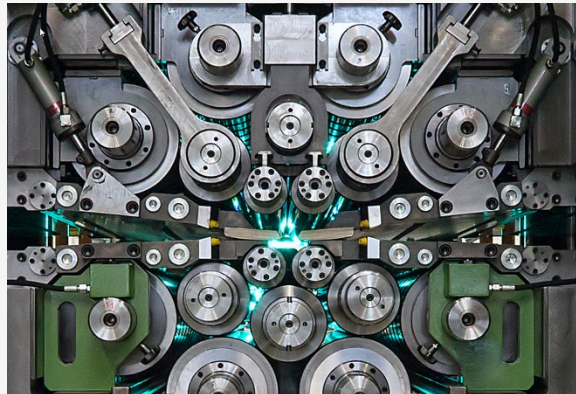
## PULP & PAPER



38%\*

Pulp: #1  
Paper: #3

## METALS



21%\*

Forming: #1  
Processing: #1-2

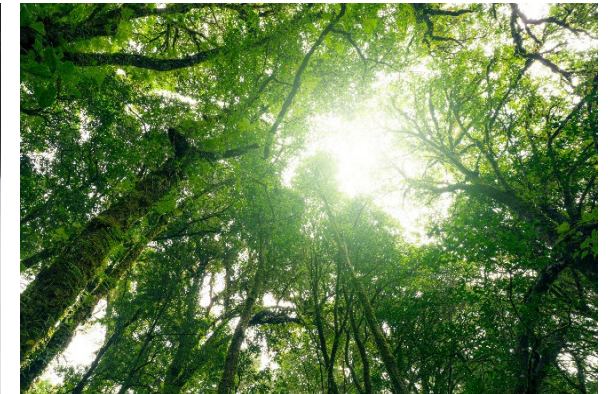
## HYDROPOWER



22%\*

#1-2

## ENVIRONMENT & ENERGY



19%\*

#1-3

\* Share of total group revenue 2025

# Global market position, estimated by ANDRITZ

# CLOSE TO OUR CUSTOMERS



# ANDRITZ NONWOVEN & TEXTILE

## WHO WE ARE TODAY



Facts & figures

**STRONG FOCUS**  
on Sustainability & Environment,  
Long-term partnership,  
Continuous research &  
development

**ONE OF THE  
WORLD'S LEADING**  
nonwoven and textile machinery  
and line supplier

**TECHNOLOGIES**  
Airlay, Air-through bonding,  
Bast fibers, Needlepunch, Spunbond,  
Spunlace, Airlaid/Airlace,  
Wetlaid/Wetlace, Dry Molded Fiber,  
Converting, Textile recycling

**716**  
**INSTALLED LINES**  
Since 2009

**+120 YEARS  
OF EXPERIENCE**  
in nonwoven and textile

**~ 700**  
**EMPLOYEES**  
worldwide

**MEMBER OF**  
EDANA, INDA, NWI,  
VDMA, CNITA

**10**  
**PILOT LINES**  
within ANDRITZ for continuous  
innovation and developments

**12**  
**LOCATIONS**  
worldwide

**7**  
**RESEARCH CENTERS**  
equipped with ANDRITZ  
machinery at AITEX, CETI, CITEVE,  
STFI, NWI, IFTH and NFT



**02**

# **ANDRITZ TEXTILE RECYCLING SOLUTIONS**

# AUTOMATED SORTING TECHNOLOGY



- **Innovative and automated sorting** technologies to separate clothes by color and/or composition
- **Optimized fiber quality** by automated textile sorting
- The unique process is the result of a **long-term collaboration** between ANDRITZ, Nouvelles Fibres Textiles and Pellenc ST, France.

## Sustainability approach

- Regenerating fibers out of post-industrial and pre/post-consumer textile waste
- Re-use of textile waste, creation of new products and reduction of waste



## WIDE RANGE OF END-PRODUCTS

woven and knitted products within the textile sector, and automotive, technical nonwovens, building insulation, bedding, furniture, etc. for the nonwovens area

# PREDICTIVE FIBER QUALITY CONTROL



## ANDRITZ teXscan analyser

- **Innovative, AI-powered** system to **predict the fiber quality** of any textile prior to recycling.
- Real-time analysis of **material suitability** for chemical recycling, nonwoven processing, open-end-, or ring spinning with a clear 1–100 score
- Rapid and reliable results for textile reuse decisions. That enables smart value driven selection of feedstock matching appropriate recycling process/method.

### Sustainability approach

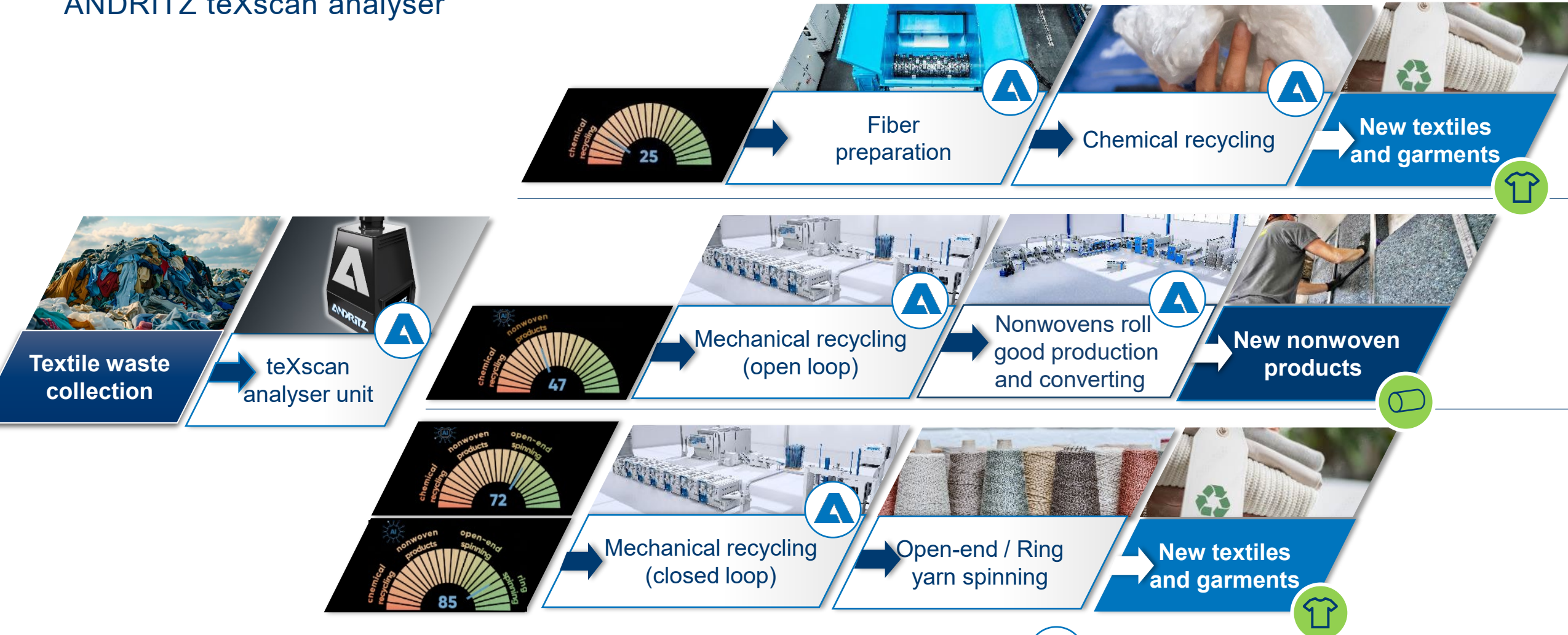
- True textile-to-textile circularity, eliminating the gap between ecological and economical viability.



# PREDICTIVE FIBER QUALITY CONTROL



ANDRITZ teXscan analyser



# BE INNOVATIVE WITH CHEMICAL RECYCLING

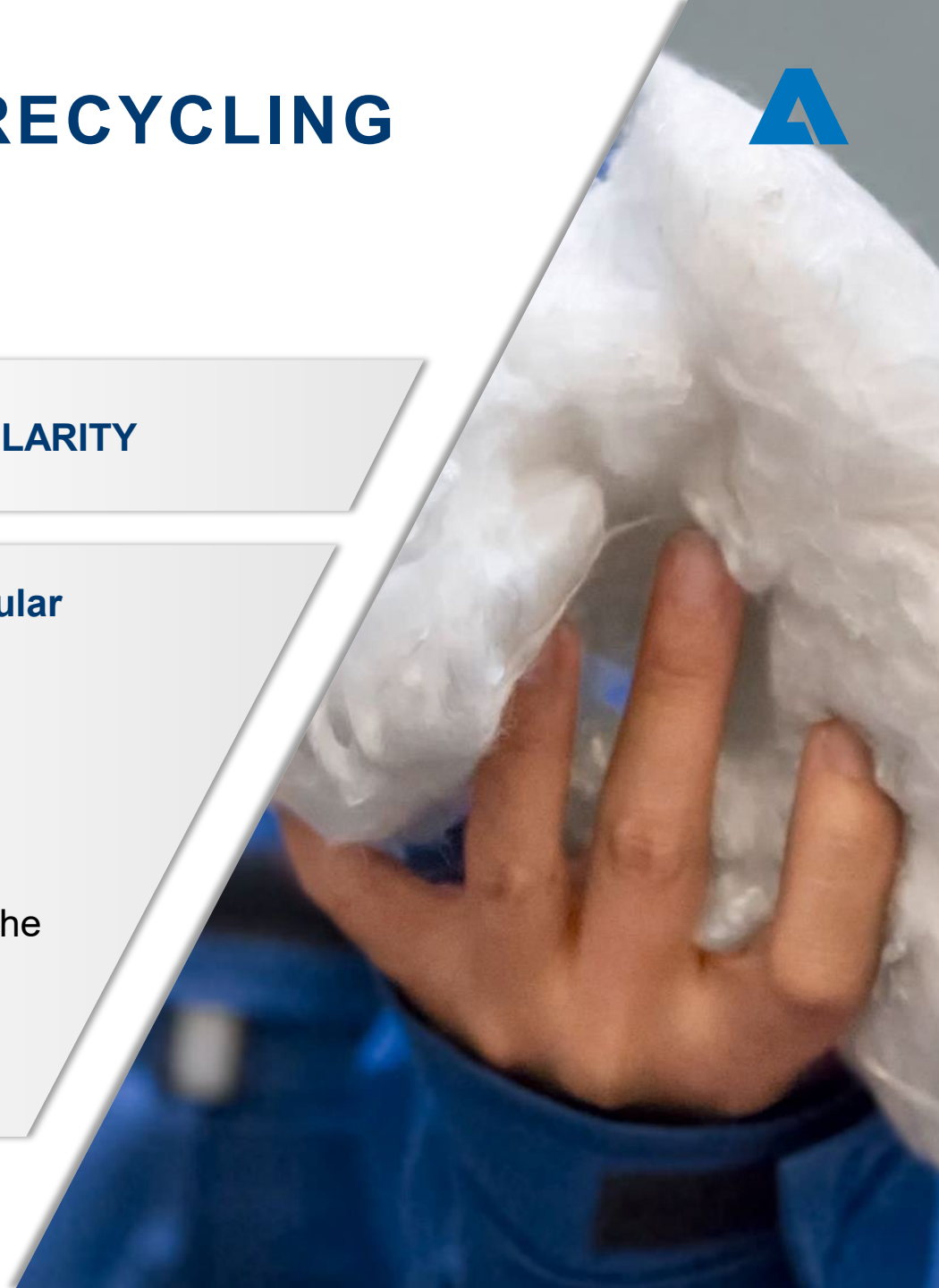


Production of new man-made textile fibers



## CHEMICAL RECYCLING FOR TEXTILE-TO-TEXTILE CIRCULARITY

- **Chemical recycling process** - textile fibers are separated on a **molecular level** from the original textile.
- Dyes and other unwanted components - chemically removed, cellulose fibers modified to be dissolved and spun into new textile fibers **without losing fiber properties**.
- **Mechanical properties** of the new fibers - **equal or surpass** those of the original textile.



# MECHANICAL RECYCLING BY MEANS OF TEARING

The spot-on mechanical recycling process

## NUMEROUS FEATURES

- Capacity from **50 up to 3,000 kg/h**
- Applicable to almost all types of **pre-/post-consumer** waste textiles, and **soft and hard** textile waste
- **Maintaining the nature of the original fibers** by maximizing fiber length, strength and feel
- Today **Ne30** yarn counts use **100% recycled cotton fibers** in some blends
- Mechanical recycling process uses: **Less water, very limited chemicals, a reduced machinery installation footprint.**

It is **the least energy demanding process** for textile recycling solutions.



**DISCOVER OUR MECHANICAL  
RECYCLING BROCHURE**



# ANDRITZ R&D – CREATING TOMORROW'S SUCCESS

A worldwide network of pilot plants and technology centers



**ANDRITZ Recycling  
Technology Center  
AUSTRIA**



**Chemical recycling R&D  
FINLAND**



**Mechanical recycling  
technical center  
FRANCE**



**Fiber R&D Center  
UNITED STATES**



**Technical center CETI  
FRANCE**



**ANDRITZ Recycling  
Technology Center**

ART Center

**ANDRITZ**

ENGINEERED SUCCESS



**03**

# CONCLUSION

# ANDRITZ TEXTILE RECYCLING RANGE

## CIRCULAR RECYCLING APPROACH



One-stop-shop by ANDRITZ



# YOUR CONTACT



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# ANDRITZ CAPABILITIES IN RECYCLING



Rejects from the paper industry



E-scrap & Battery recycling



Refrigerators



Waste-to-value – RDF production



Automotive parts



Organic waste



Wood and waste wood



Plastic waste



Textile waste



Metal and special waste



**ANDRITZ.  
FOR GROWTH  
THAT MATTERS.**

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