


# THE NEXT GENERATION OF RECYCLED WOOL

MWool<sup>®</sup>  
by MANTECO

Impacts compared to generic virgin wool fibers:

 **-99,2%**  
LESS ON CO<sub>2</sub>  
EMISSIONS

 **-93,3%**  
LESS ON TOTAL  
ENERGY USAGE

 **-99,9%**  
LESS ON WATER  
CONSUMPTION



Manteco® was born circular in 1943 and has never stopped investing and innovating to meet the founder's goal: making sure that recycled wool fabrics are as beautiful, durable and performing as virgin ones. Manteco® has been recycling post-consumer wool garments and pre-consumer scraps into premium quality textiles since 1943, supplying the world's leading fashion brands with circular, low-impact and amazingly valuable materials. MWool® is the next generation of recycled wool and the key ingredient of our high-end, circular textiles, and the clear representation of our DNA and circular-economy-driven philosophy. Thanks to this fiber, we have managed to meet our ultimate goal and we are still investing and innovating to raise the bar.





# MWool®

## **THE KEY INGREDIENT OF OUR PREMIUM AND CIRCULAR RECYCLED WOOL TEXTILES**

This low-impact and high-end fiber is the result of more than 80 years of circular know-how, innovation and science. We have taken a 200-year old technique and taken it to the next level.

MWool® stands out for an accurate selection and deep testing of the best possible pre- and post-consumer wool garments and scraps, a cutting-edge and low-impact mechanical recycling process, a masterful and dyes-free color creation through our Recype® process, a painstaking quality control and testing, all guaranteed by our MSystem zero-mile and highly specialized supply chain.

MWool® is the first-ever recycled wool with a Life Cycle Assessment that was approved by scientific community, certified according to the EPD® Environmental Product Declaration and scored by the Higg Materials Sustainability Index.





# MWool®

**IS FULLY CIRCULAR AND ZERO-WASTE,  
AS IT ELIMINATES THE NEED TO USE NEW  
WOOL BY MAKING THE MOST OF WHAT'S  
ALREADY BEEN PRODUCED,  
THROUGH A LOW-IMPACT,  
MECHANICAL RECYCLING PROCESS**

Manteco® produces circular, premium quality recycled wool fabrics thanks to MWool®,\* which is obtained by recycling highly-selected and tested pre- and post-consumer wool garments and scraps.\*\*

MWool® fibers retain all the natural characteristics of virgin wool and are **turned into premium textiles through the woollen processing;\*\*\*** and all the yarns and fabrics made with MWool® must undergo and pass the same tests as virgin wool fabrics, in order to guarantee the same performance, but with the lowest impact possible.

\*Read our Blog  
"How is a recycled wool fabric made"  
to learn more about this.

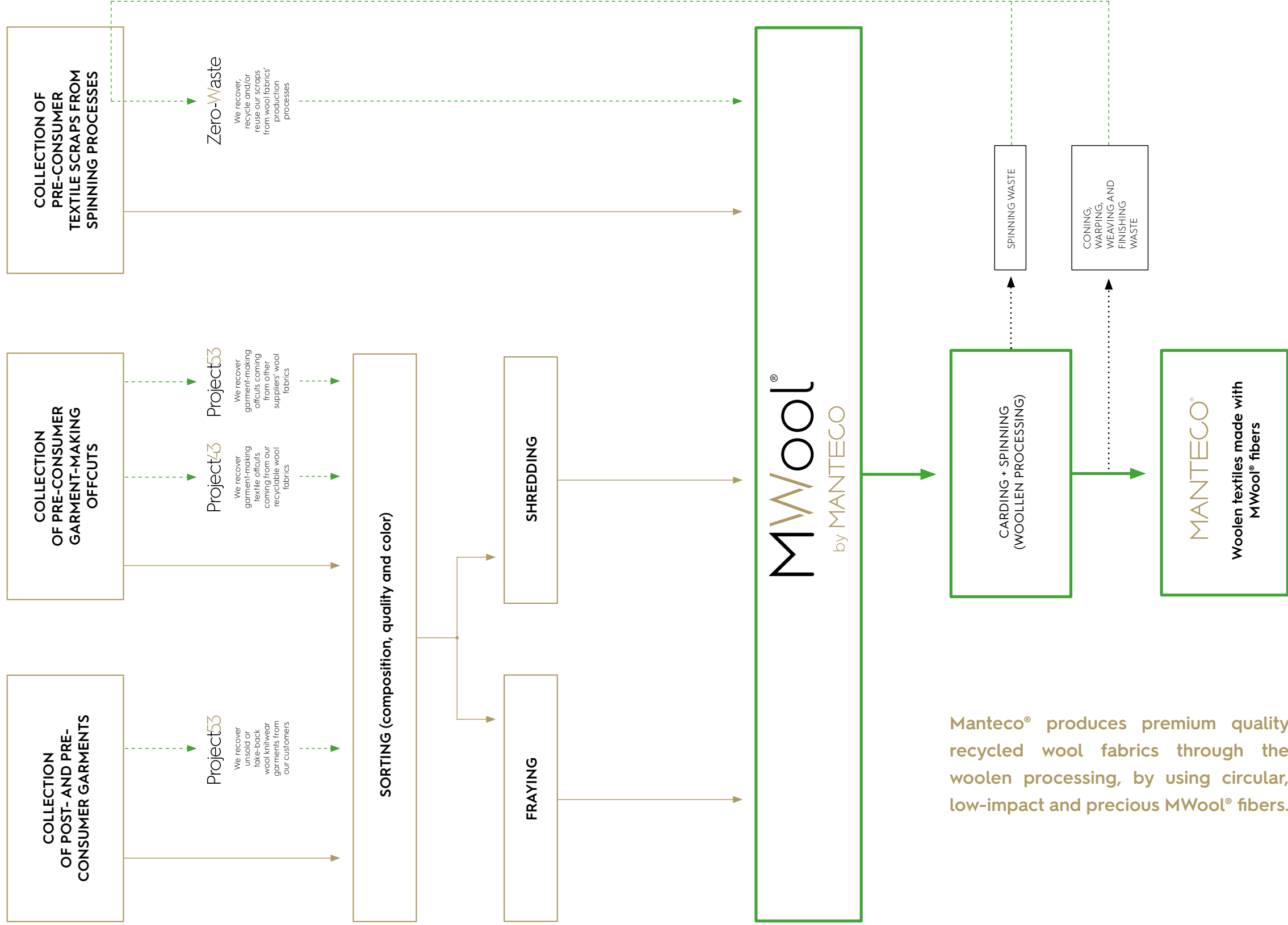


\*\*Read our Blog  
"5 reasons why wool is the circular fiber par excellence"  
to learn more about this.



\*\*\*Read our Blog  
"What is the difference between worsted and woollen textiles"  
to learn more about this.





Manteco® produces premium quality recycled wool fabrics through the woolen processing, by using circular, low-impact and precious MWool® fibers.



# MWool®

**FIBERS, YARNS AND  
FABRICS ARE GLOBAL  
RECYCLED  
STANDARD-CERTIFIED**

Global Recycled Standard certifies each stage of production to verify recycled content in materials and products, ensuring traceability and respect for social and environmental standards.



MWool® by MANTECO®



# MWool®

**FIBERS, YARNS  
AND FABRICS ARE  
MANUFACTURED IN  
A SPECIALIZED AND  
LOCAL SUPPLY CHAIN**

MWool® is created and turned into circular, premium textiles within our MSystem supply chain, a unique network of 50+ expert textile businesses located within an area of 10 miles from our headquarter.

Our supply chain is in the Prato textile district, in Tuscany, which has been processing wool for centuries and is therefore a guarantee of scalability, reliability and quality.

Discover more about our  
MSystem value chain  
by scanning this QR code



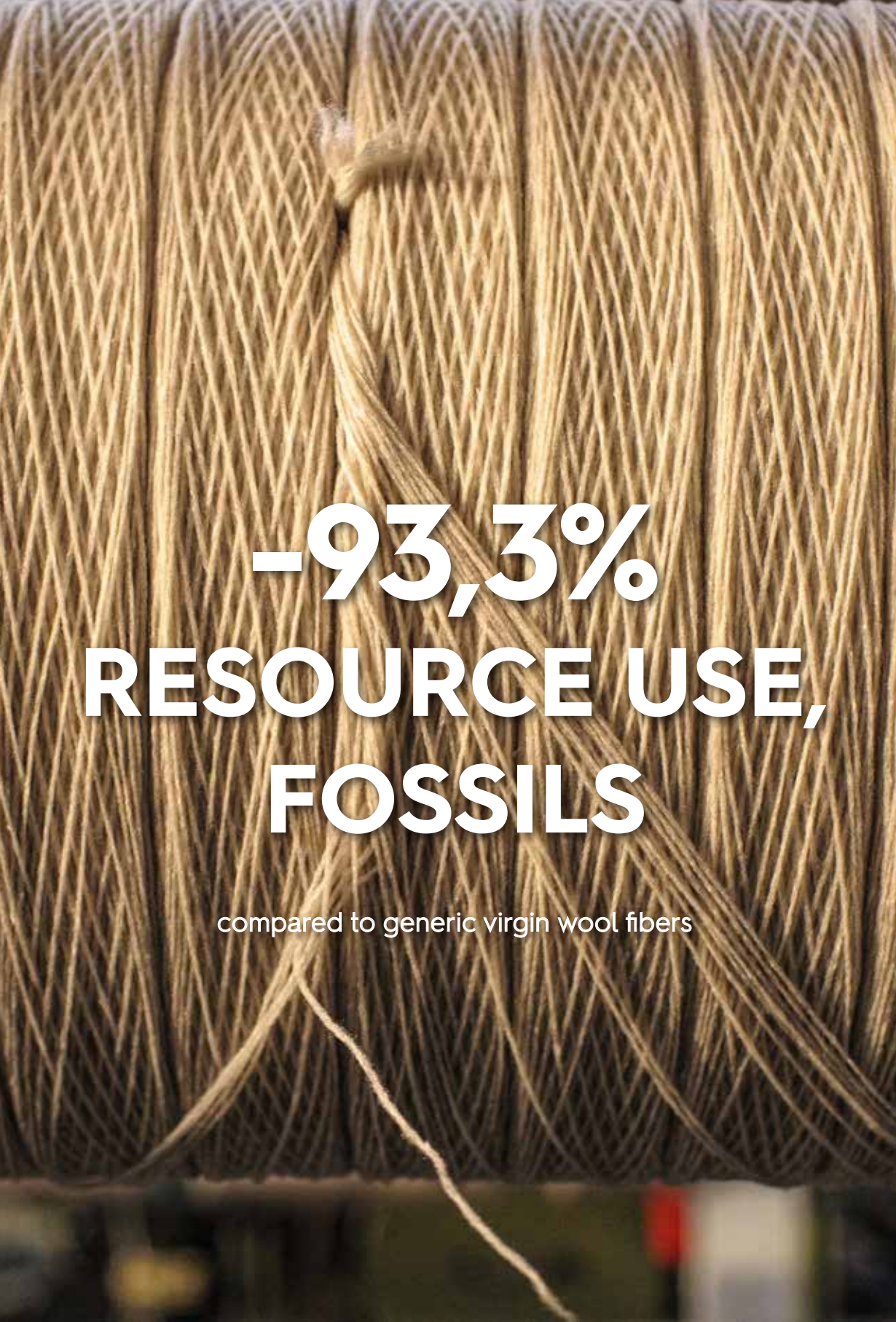
MWool® by MANTECO®



MWool®

**I M P**

**A C T**



**-93,3%**  
**RESOURCE USE,  
FOSSILS**

compared to generic virgin wool fibers



**-99,2%**  
**CLIMATE  
CHANGE**

compared to generic virgin wool fibers



MWool<sup>®</sup>  
**IS EXTREMELY  
LOW-IMPACT  
AND ASSESSED BY  
SCIENCE-BASED  
STUDIES**



**-99,9%**  
**WATER  
USE**

compared to generic virgin wool fibers



# MWool®

## **MWOOL® LOW IMPACTS WERE CALCULATED WITH AN UNPRECEDENTED LIFE CYCLE ASSESSMENT**

Our study, in collaboration with the prestigious Politecnico di Torino, develops an environmental analysis of recycled wool fibers through the Life Cycle Assessment (LCA) methodology. A parallel LCA is developed for virgin wool fibers too, in order to obtain a data-based comparison. Results show that recycled wool fibers have significantly lower environmental impacts than virgin fibers, even when the most unfavorable scenarios are considered.

**MWool® fibers' impacts also received their Higg Materials Sustainability Index (Higg MSI) score, and MWool® yarns' impacts were also calculated and certified according to the EPD® Environmental Product Declaration scheme.**



ENVIRONMENTAL PRODUCT DECLARATION

An EPD® is a certified Environmental Product Declaration, which transparently reports environmental data over the life cycle of products in accordance with the international standard ISO 14025.

Scan this QR Code to see  
MWool®'s LCA and EPD®







# MWool® Colored through Recype®

**IS SUSTAINABLY COLORFUL,  
WITH NO ADDED DYES AND CHEMICALS**

MWool® is available in more than 1000 colors, which are obtained without added chemicals and dyes through our Recype® color creation process, just by mixing numerous and different shades of recycled wool fibers, developing actual 'recipes' of no-dye colors, which are archived and adapted to the kgs of yarns that need to be produced.

Thanks to this technique, in more than 80 years in the field of wool recycling, we have developed our **Infinity Color Collection**. An always-evolving archive of **more than 1000 no-dye colors** that we have carefully developed and preserved along the decades.

Discover more about Recype®  
by scanning this QR code



Read our Blog "How are recycled wool colors created  
without dyeing" to learn more about this.





# INNOVATION & CIRCULARITY SINCE 1943



# MANTECO®

## OUR HISTORY

Manteco is an Italian leading textile company for **premium quality fabrics and circularity since 1943.**

Its history started back in the 40s, when the founder, Enzo Anacleto Mantellassi, had the great intuition of recycling military blankets and garments to produce **regenerated wool yarns and fabrics.** Manteco® has also created its own brands of sustainable wool. M Wool®, the next generation of recycled wool, and ReviWool®, the low-impact virgin wool. All of this has led the company to become a Member of the Ellen MacArthur Foundation's Network and a partner of the Monitor for Circular Fashion by SDA Bocconi.

[READ THE FULL STORY HERE](#)



M Wool® by MANTECO®



ARCHIVIO  
MANTECO

*“I strongly believe that each one of us can do a lot and that we all must take tough and fast actions, strictly following a clear roadmap with measurable and tangible targets. We must diligently rewrite the economic model on which we have based ourselves so far, by carefully planning that of the future with a new approach and forward-looking guidelines.”*

MATTEO MANTELLASSI  
CEO of Manteco S.P.A.



MWool®  
Colored through Recycle®

THE NEXT GENERATION OF RECYCLED WOOL



WATCH THE FULL STORY

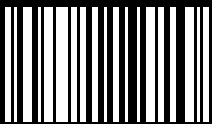
**Edition 1.5**

This depliant is printed on FSC and 100% recycled paper



[manteco.com](http://manteco.com)

MADE IN ITALY



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