



Rewriting the future of Textiles



Textile-to-Textile Recycling
Innovation and Sustainability Beyond Plastic Bottles

How can we reduce textile waste?



The world is increasingly being inundated with polyester-based textile waste. The use of recycled fibers exacerbates the issue, as it serves as an excuse to produce even more polyester fabrics at a low cost, with little regard for their end-of-life impact.

Textile-to-textile recycling is crucial for achieving circularity and ensuring a sustainable future for generations to come.

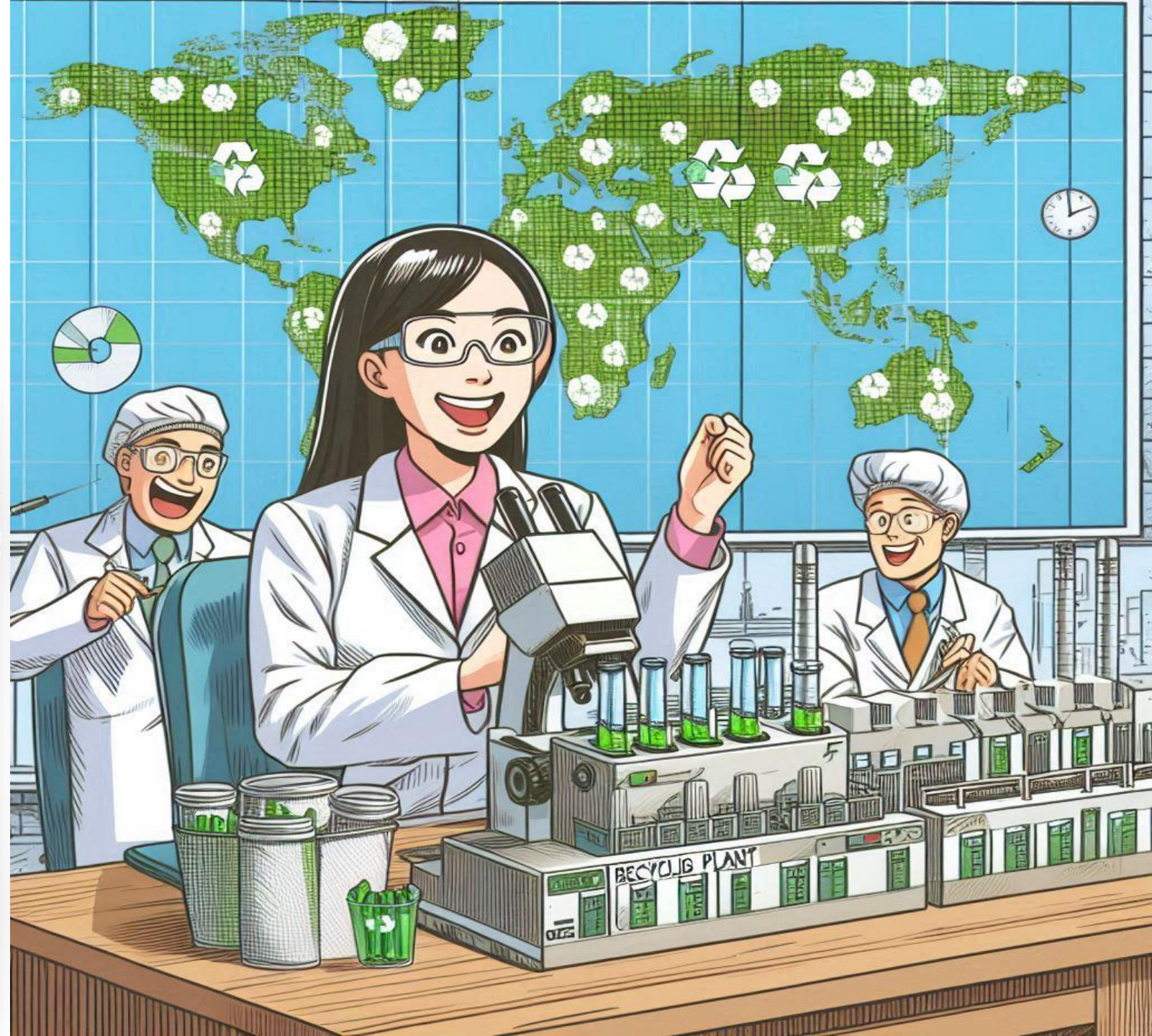
αXtre: the future is now

αXtre is the result of years of extensive research, focused on easily recycling man-made fibers through a simple and cost-effective* chemical process.

A scalable system that can be implemented across all consumption markets.

αXtre offers a fully circular approach, enabling the separation and recycling of all components in textile blends, for a more sustainable future.

*We estimate that the cost of the equipment capable of processing 5,000 tons per year would be less than \$1 million USD, a fraction of the cost needed to recycle conventional polyester.



Performance without compromises



αXtre is part of the greater polyester family but boasts entirely different characteristics from standard polyesters.

Performance-wise, αXtre surpasses the qualities of both Nylon and Polyester, offering a very soft hand feel similar to nylon 6.6 and excellent quick-dry properties akin to functional polyesters, all in one product.

αXtre's soft touch and moisture management properties extend to blended fabrics, making them also wrinkle-free for a smarter and always fresh look.

A World of Colors

A large industrial textile printing machine is shown in operation. The machine's rollers and printing heads are visible, moving a wide roll of fabric through the process. The fabric is covered in a vibrant, multi-colored pattern featuring various flowers, including large pink and orange blossoms, and a blue bird in flight. The background is dark, making the bright colors of the fabric stand out.

αXtre is engineered for effortless printing and dyeing, whether used alone or in combination with other fibers.

Its compatibility with waterless* digital printing not only reduces environmental impact but also enhances production flexibility, enabling on-demand fabrication and minimizing excess inventory.

Digital printing can also be applied directly to seamless garments, allowing to enjoy αXtre's smooth, skin-friendly touch alongside its functional benefits.

Dyeing is performed at low temperatures, reducing resource consumption and demonstrating environmental care in every situation.

*Waterless printing is available for 100% αXtre seamless fabrics



**Build a better
world with aXtre**

