Co-funded by the European Union

CIRTECHTEX

EMPOWERING TEXTILE CIRCULAR ECONOMY WITH CIRTECHTEX PROJECT

Project overview

LIFE-CIRTECHTEX project team has just reached the midway of the project. Partners are making huge strides toward revolutionizing PPE production by recycling textile waste and incorporating at least 20% recycled content into fabrics.

From the start, the consortium focused on setting a strong base. They mapped out textile waste flows across the value chain and implemented a robust traceability system to ensure high-quality, compliant PPE products. All these tasks aim to reduce textile waste in the production of high-performance personal protective equipment (PPE) through circular economy strategies.

It focuses on recycling and upcycling technical fabrics used in PPE for high-risk industries, addressing the current lack of sustainable solutions in this sector.

Here's a recap of what we've accomplished so far and what lies ahead.

Environmental & Socioeconomic Assessments

Determinant groundwork on the evaluation of the environmental and socioeconomic impacts of the previous tasks is ongoing. A substantial follow-up in collecting data for environmental impact assessment, and socioeconomic analysis is also well underway.

Product Development

With the collection process improving, the new yarns and fabrics production incorporating recycled content has just begun. Several batches with a good quality yarns have been produced.

Training & Capacity Building

The training for everyone involved in the waste collection process was a settled cornerstone. As a result, the collection processes have improved and achieved higher-quality waste batches.

Waste Collection & Recovery

The collection of pre-consumer textile waste, assessing material quality and defining recovery methods has been successful. Post-consumer waste collection is always a challenge, but partners are making a relevant effort on that task.

1 2 3 4

MARINA TEXTIL · TÈXTILS CAT · GRAUSA · fontfilva, s.a. · TRANEMO ADVANCED WORKWEAR · fil man made group · BLAUfabric

Important Lessons Learned: Overcoming Challenges

As we move forward, we have encountered and learned some valuable lessons that will help us improve and evolve:

TRACEABILITY IS KEY

Traceability has proven to be a critical factor in managing textile waste, especially when it comes to garments that must meet strict standards. Clear, reliable tracking systems are essential to ensure the quality and compliance of recycled products.

RECYCLING MULTICOMPONENT MATERIALS IS COMPLEX

The recycling of garments made from multiple materials presents a challenge that requires precise planning and execution. For consistent quality and performance in recycled products, the recycling process needs to be carefully defined and controlled at every stage.

LEGAL COMPLEXITIES IN WASTE RECOVERY

Navigating the legalities of waste recovery across different countries and regulations has been tricky, but we are committed to transforming waste into a valuable resource, taking into account the current legal information.

What's Next: Looking to the Future

The partnership is now looking at intensifying efforts to improve post-consumer waste collection, recognizing that educating users and maintaining a close relationship with customers and end users will be key to meeting project's goals. As they continue to refine our waste collection processes, they will boost production capacity for recycled yarns and fabrics to ensure the project stays on track to meet its recycling targets. Additionally, partners will continue to refine and expand the data collection for their environmental and socioeconomic impact assessments, providing a comprehensive understanding of the project's impact in terms of both sustainability and broader community benefits.

Stay tunned!

Marina Textil is attending to the A+A fair. It is the world's leading trade fair and congress for occupational safety, security and health at work, showcasing innovations and technologies that enhance workplace well-being. Such event will endorse the partner to promote the project findings to a multiple industry stakeholders from several subsectors which produce large amounts of waste and that potentially find some interest in LIFE-Cirtechtex project. .

WEBSITE

Co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.

Co-funded by the European Union