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LIFE POLITEX

**Fibre to fibre full circularity in the textile sector
through novel polyester recycling technologies**

Coordinator



**Co-funded by
the European Union**

101148221- LIFE23-ENV-ES-LIFE POLITEX

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 **CALL:** LIFE 2023-SAP-ENV - Circular Economy and Quality - Circular Economy and Waste

 **PROJECT LOCATION:** Spain, Portugal and Italy

 **BUDGET INFORMATION:**

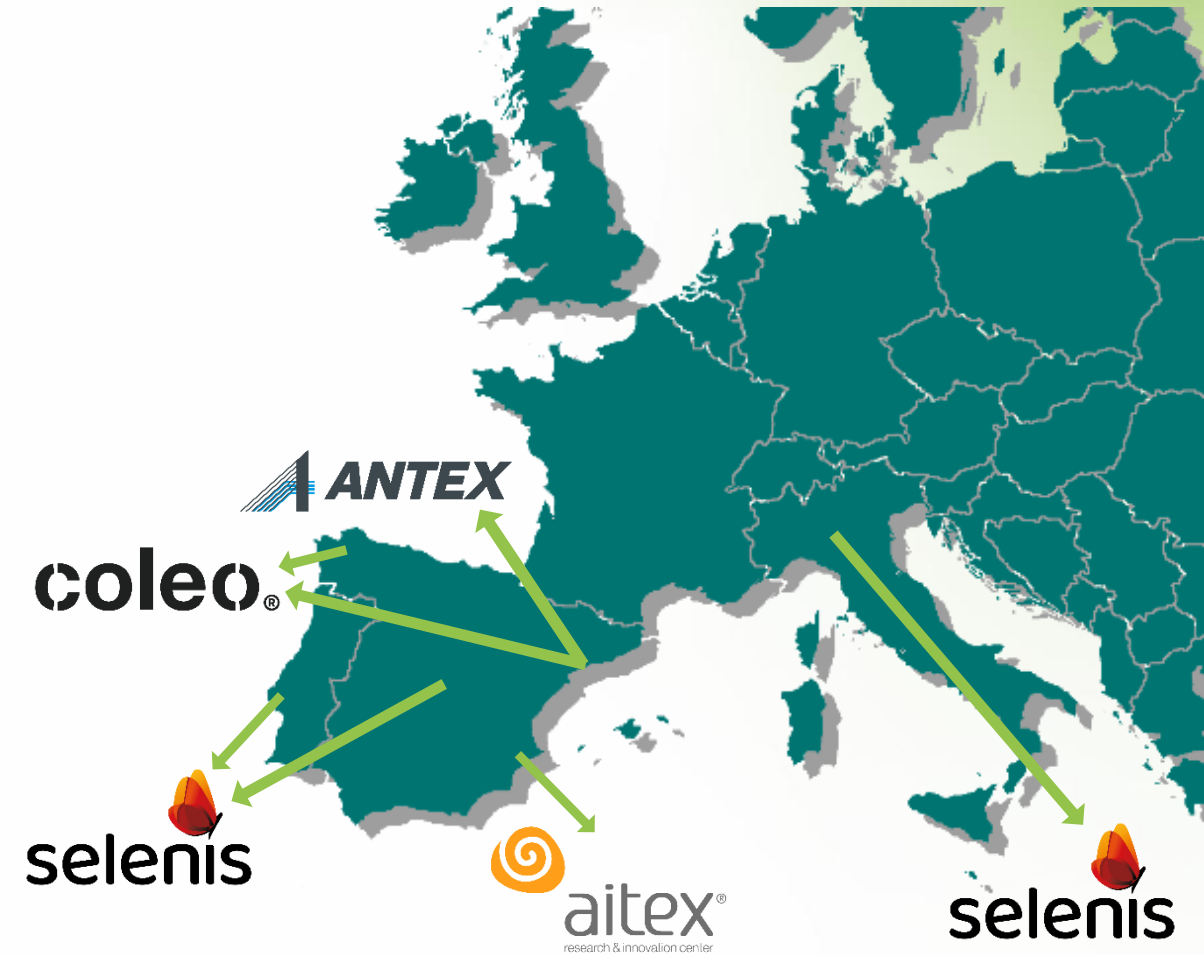
- **Total amount:** 5,030,070 €
- **% EC Co-funding:** 60%

 **DURATION:** 42 months

 **BENEFICIARIES:** 5 BENEFICIARIES + 2 AFFILIATED ENTITIES

- **COORDINATOR:** ASOCIACION DE INVESTIGACION DE LA INDUSTRIA TEXTIL Y COSMÉTICA (**AITEX**). Spain.
- **BENEFICIARY:** COLEO RECYCLING BCN SL (**COLEO**). Spain.
- **AFFILIATED:** WASTEX TECHNOLOGIES SL (**WASTEX**). Spain.
- **BENEFICIARY:** SELENIS PORTUGAL SA (**SELENIS PORT**). Portugal.
- **AFFILIATED:** SELPET POLIMEROS SL (**SELPET**). Spain.
- **BENEFICIARY:** SELENIS EUROPE SA (**SELENIS EU**). Portugal.
- **BENEFICIARY:** ANGLES TEXTIL SA (**ANTEX**). Spain.

 **PRESENTED BY:** Erik Macias Simeon
emacias@aitex.es



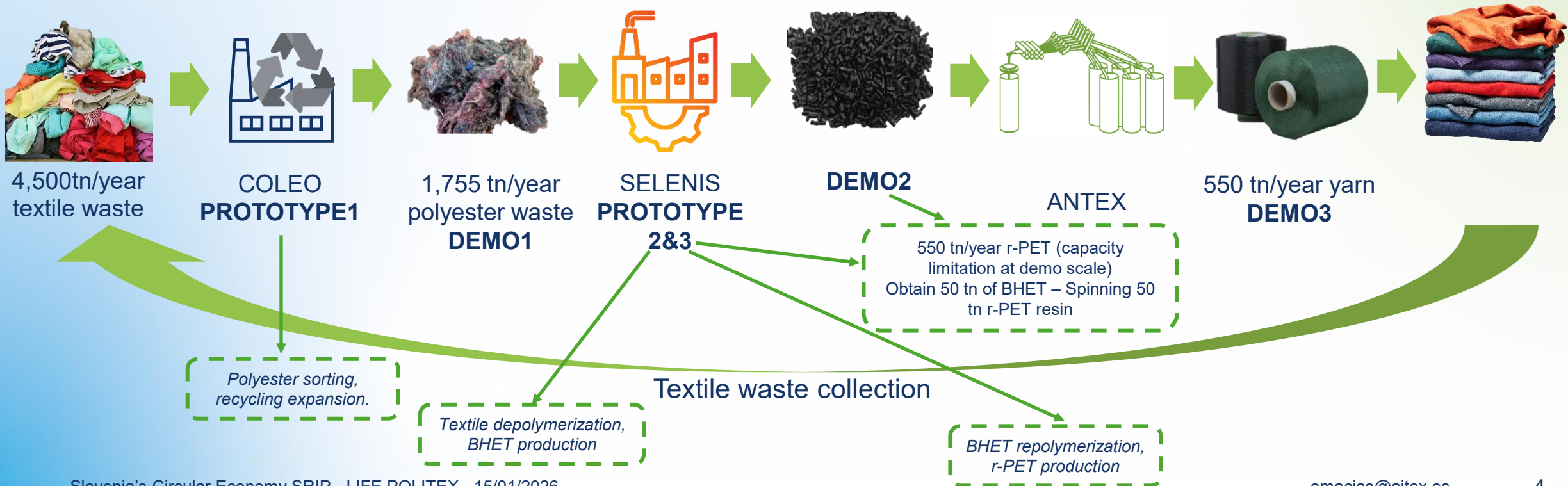
THE PROBLEM



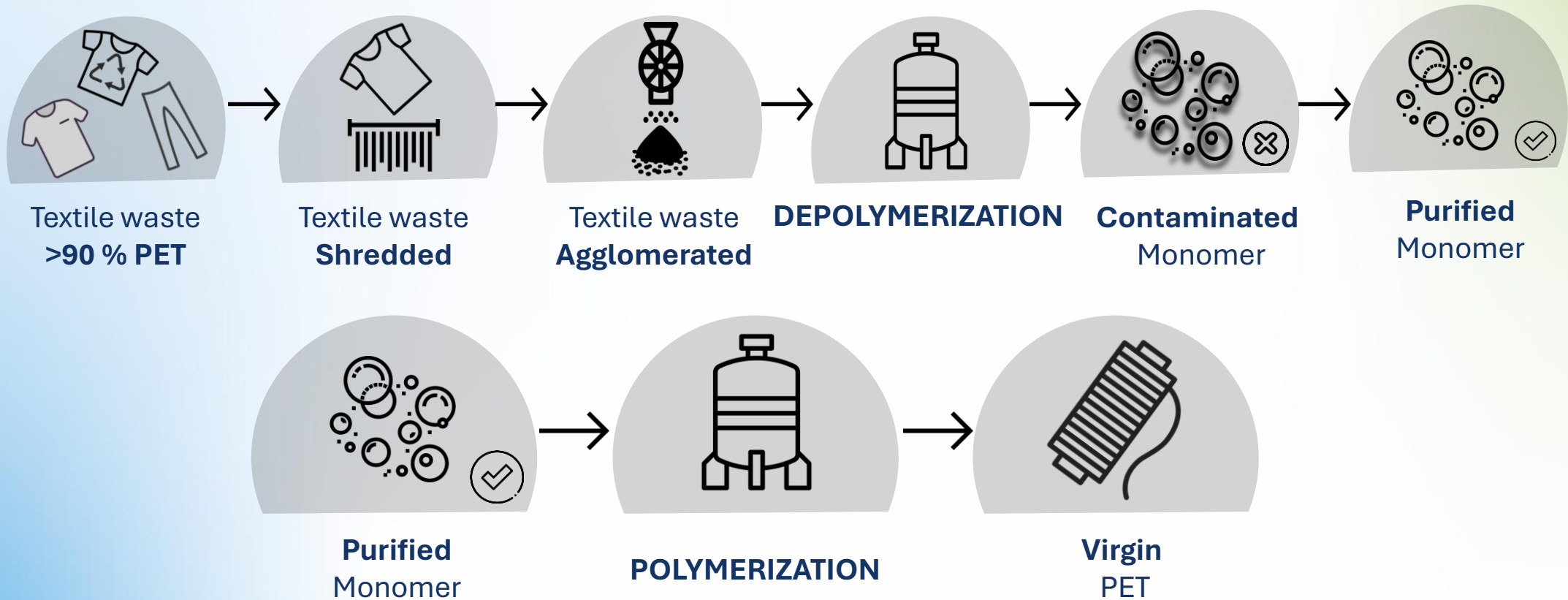
There is a growing need for **fibre-to-fibre recycling** to create a circular economy in the textile sector.

OUR PROPOSAL TO TACKLE THE PROBLEM

LIFE POLITEX will be **the first close-to-market project** capable to demonstrate the high performance and cost effectiveness of polyester recycling to introduce fibre-to-fibre full circularity in the textile industry.



OUR PROPOSAL TO TACKLE THE PROBLEM



OUR PROPOSAL TO TACKLE THE PROBLEM

CHALLENGES

1. Complexity of the post-consumer textile fraction
2. Efficiency of the depolymerization process
3. Costs and energy consumption
4. Quality assurance of r-PET
5. Current scale limitations

LIFE POLITEX SOLUTIONS

1. Advanced separation technologies and validated prototypes
2. Optimized depolymerization processes for real textile waste
3. Collaboration between industrial players with expertise in recycling, polymers and textiles
4. An approach that prioritizes economic and environmental viability, not just technical feasibility

WHAT WE EXPECT TO ACHIEVE AT THE END OF THE PROJECT

Textile waste reduction



Recycling **4,500** tn/year



9,015 tn CO₂/year

GHG emission reduction



Circularity improvement



Reintroducing up to **550** tn/year of r-PET



Scaling up chemical recycling processes to industrial levels.

Industrial Chemical Recycling



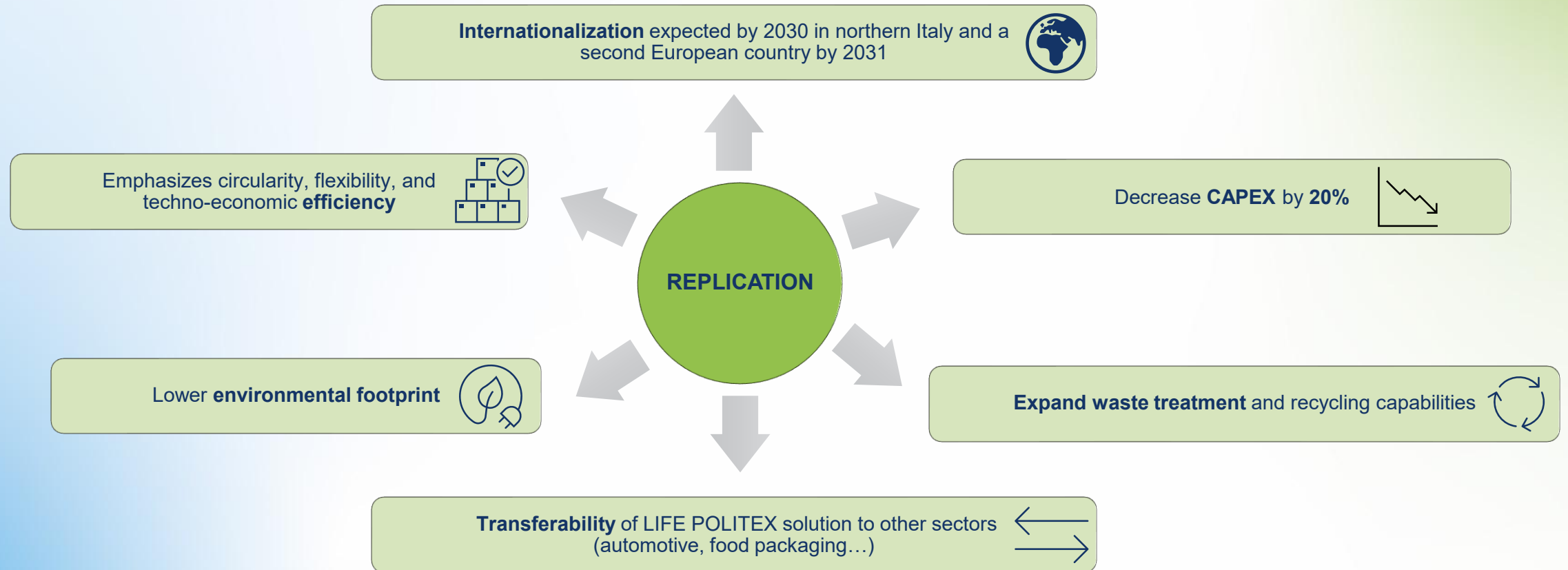
High-Purity Recycled Polyester



Ensuring high purity in **recycled polyester fibers (99%)**.



OUR LEGACY



DISCUSSION TOPICS PROGRAM LIFE

KEY MESSAGE

Market competitiveness for develop or pilot to industrial plants with a 60% of funding



Proposal Preparation

- **Clarity and Detail:** It is crucial to prepare a **clear and detailed proposal**, highlighting innovation and environmental impact.
- **KPIs and Measurement:** Clearly explain how the program's KPIs will be measured. You must demonstrate **where the calculations come from and how they will be measured during and after the program**
- **Coordinator** must have experience on projects and industrial partners committed to the investment.



Dissemination, collaboration and networking between sectors is **crucial for a competitive proposal**



MORE INFO



[LIFE POLITEX - CIRCULARIDAD TOTAL FIBRA A FIBRA EN EL SECTOR TEXTIL A TRAVÉS DE NUEVAS TECNOLOGÍAS DE RECICLAJE DE POLIÉSTER - Aitex](#)



[LIFE 3.0 - LIFE23-ENV-ES-LIFE-POLITEX/101148221](#)



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Thank you for
your attention.



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Coordinator

