

Webinar Procedures



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Mute your microphone

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Agenda

Introduction
Charlotte Denis,
Textile ETP

Recyc'Elit
Marine Perraud,
Recycl'Elit

Auvergne-Rhône-Alpes Region's policy for the textile industry

Inès Lejeune, Delegation of Auvergne-Rhône-Alpes in Brussels Conclusion Charlotte Denis, Textile ETP















AURA GreenHub

Robin Oddon, TECHTERA Rovintex

Robin Oddon, TECHTERA Q&A







Online animation activities play a pivotal role in sustaining the engagement of SMEs within the digital ecosystem. To stimulate interaction, a series of 14 intra-consortium webinars, the RegioGreenTex Community Talks, are taking place throughout the duration of the project. The RegioGreenTex Community Talks promote the latest progresses and results of the project, and well as encouraging dialogue and knowledge sharing in the textile sector, focusing on sustainability and the green transition.

The RegioGreenTex Community Talks are organised as part of WP2 (T2.4 Animation of the Ecosystem) and managed by Textile ETP, with the support of Euratex, NE RDA, Ariadne Innovation, OOST NL and Techtera.





AURA GreenHub

Robin Oddon, TECHTERA





AURA GreenHub

Textile circularity in Auvergne-Rhône-Alpes: implementing a 4-helix strategy





Techtera

Innovation and competitiveness cluster dedicated to the French textile industry

Missions

- Support collaborative innovation
- Contribute to the development of dynamic ecosystems that generate wealth, relying on a strong territorial foundation and leveraging existing structures such as industrial networks, campuses, collective infrastructures, etc.

Smart and high-performance materials
Circular economy
Factory of the future and new business models







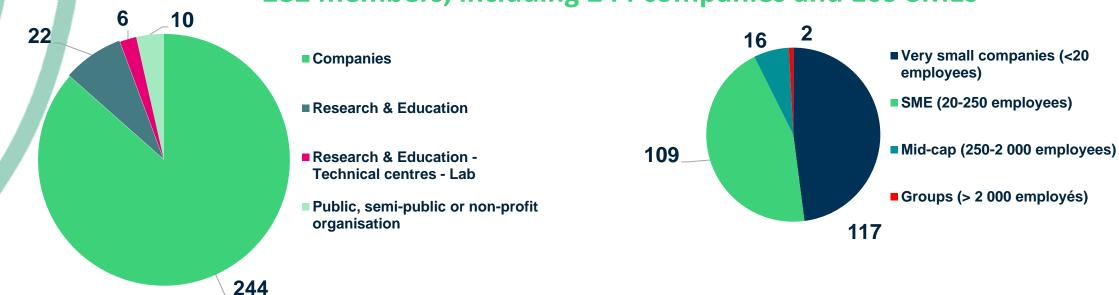




Techtera

Ecosystem context

282 members, including 244 companies and 109 SMEs





600 COMPANIES

4,2 billion € in turnover

27% JOBS

in Auvergne-Rhône-Alpes compared to the national level

27% OF NATIONAL BUSINESS







RegioGreenTex Regional Hubs

GOALS

The regional Hubs are effective communities of EU textile actors integrating collaborating to:



build a complete circular textile ecosystem



support SMEs upscale recycling technologies



attract investments for technological advance



create effective value chains at regional level





Functionalities of the Greentex Hubs:

The prime function of a RGT hub is to provide support to SMEs active in the circular textile value chain and that this support encourages investments and growth of these SMEs. Results in these functionalities:

- 1. Creating a market by building circular textile value chains.
- 2. Attracting public and private investments by building consortia.
- 3. Attracting individual investments by connecting the financial sector.
- 4. Capacity building (competences).
- 5. Connecting SMEs to join forces.



AURA GreenHub

Key stakeholders and objectives

- SMEs upscaling
- Investment attraction
- Knowledge sharing
- Expertise pooling
- Systemic approach
- Focused on the specificities of the region
- Possibility to replicate best practices











Technical solutions

Business sustainability

Territorial relevance and coherence

3 pillars to reach the goals of the AURA GreenHub





Technical solutions

- Technology development
- Upscaling
- Connecting solution seekers and solution providers
- Fostering technology transfer
- Connecting industrial ecosystems





Business sustainability

- Efficiency of the process (productivity)
- Adapting solutions to the needs of the market
- Connecting the different steps of the value chain
- Fostering the co-design of solutions
- Evaluating the potential business impact





Territorial relevance and coherence

- Involving public organisations and the civil society
- Mixing ecosystems (e.g. industry and social economy)
- Mixing public levels (from local to global)
- Foster cooperation over competition
- Encourage complementarity in the proximity, even across borders
- Identify the right solution for the right territory





Cooperation with public stakeholders

Grenoble Alpes Métropole

2nd largest city in the region

Support to develop the territorial structuration for the end of life management of clothing/footwear/home textiles



Region capital

Textile waste mapping – production scraps and dead stocks





Bring appropriate territoral solutions for coherent circular value chains





Textile waste mapping

Process

55 companies have entered the process

Quantifying and qualifying the waste

Establishing an overview of production scraps and deadstock of pre-

consumer waste

Establishing connection with valorization pathways and public

stakeholders

Organisation of a business convention

120 participants, 200+ business meetings

White paper about valorization pathways for industrial textile waste







Investment and financing support

De-risking investment with the right connections, knowledge, and support

Working groups on R&D topics for the development of technical solutions

Consortia building for

- Technical solutions development (chemical recycling)
- Private/public cooperation (greasy wool valorization, improvement of waste management in the Alps)
- Joint ecosystems and interregional solutions development (social economy, upscaling of systemic solutions for the territorial development of a circular textile industry)

Workshop about private investment and financing for the textile industry









Develop solutions for the industry, public organisations, civil society, involving academia







Business development support

Supporting market access

International trade fairs (Techtextil Frankfurt, ITMA)

Communication and dissemination

Building the activities around key players



Connect solutions and markets





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Conclusions and next steps

Main teachings

The hub has the capacity to address the 3 pillars of technical solutions,

business relevance, and territorial relevance

It can bridge all components of the 4 helix

The 3 pillars must be addressed together

A leading organization must be the central point of this 4-helix

cooperation

Next steps

Building sustainability for the hub

Improving the link with civil society





Thank you!





Marine Perraud, Recycl'Elit











Who are we?

Name:



Location: Vénissieux / Lyon (France)



Creation date: 2019

Know-how: **chemical recycling** of polyester textiles

Areas of innovation:





Staff: around 15 employees (SME)

Ambition: Give an endless life to end-of-life complex

polyester-based textiles!





What is our process?





rPET pellets 100 % recycled Virgin quality



What is our process?



100 % recycled

REGIO

ΓEX

GREEN





Reconstruction

rPET pellets

100 % recycled

Transformation

REGIO

GREEN

ΓΕΧ



solvolysis process

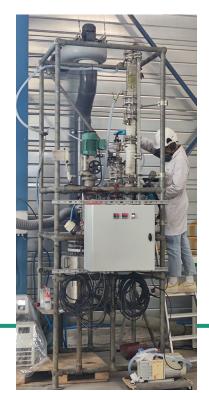
Where do we come from and where do we go?

2019 2020 - 2023

Laboratory test

Test pilot

1 - 3kg/day







Where do we come from and where do we go?

2019 2020 = 2023 **2024**Laboratory test Test pilot Industrial pilot

1 - 3kg/day

8,5kg/day

→ 20-30% increase of production





Investments in the framework of



Pilot running since summer 2024





Where do we come from and where do we go?



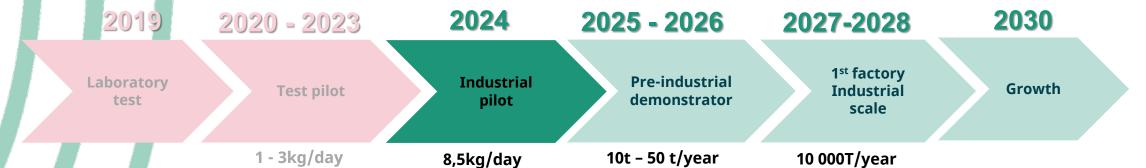
Main activities done during RegioGreenTex project and associated deliverables:

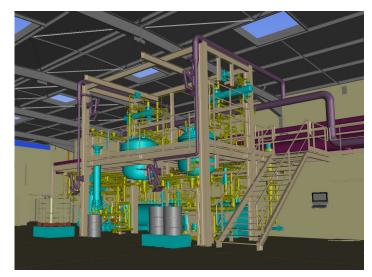
- Design of the pilot
- Selection + Purchase of equipment
- Assembly + comissionning
- Trials on several use cases multifiber and colored textiles
- Purified monomer production
- Recycled resin of PET
- Recycled polyester yarn





Where do we come from and where do we go?





Pre-industrial demonstrator available from spring 2025





How to know more about us?

Follow us on LinkedIn



Recyc'Elit

Visit our website



www.recyc-elit.com





Who are your contacts in the framework of RegioGreenTex project?



Dr. Raouf MEDIMAGH Co-Founder & CEO

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- Professor INRAP Biotechpole
- 14 years' experience in R&D management
- PhD, Eng. 2 gold medals



Marine PERRAUD
Innovation project manager

m.perraud@recyc-elit.com

- Chemical Engineer CPE LYON
- MBA IAE LYON





Thank you!





Rovintex

Robin Oddon, TECHTERA





Rovitex





Innovative and multifunctional complex developer



Service lamination

Laminates of flexible and rigid materials

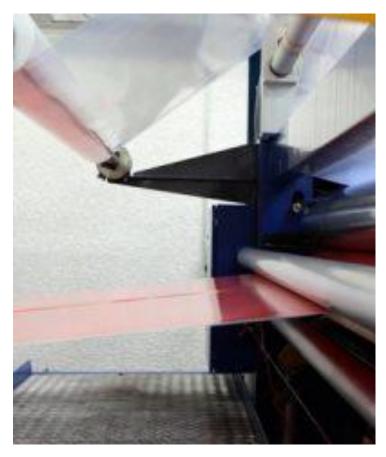
Family business

Technical and traditional markets





Improving sustainability in lamination



Laminated complexes mostly rely on glue for assembling

Glue maintains a high level of technical property for the final product

Meets the requirements of markets such as aerospace, defense...





Investment in ultrasonic lamination/padding (2023, RegioGreenTex)



US weld materials

Combination of pneumatic pression and US vibration

Pattern performed by a custom roller

Quilted layers and uniform finish Diversity of visual aspects, seamless





Advantages of ultrasonic lamination

Lesser energy consumption

• About 50%

No VOC emissions

Improvement of the working environment

Reduction of waste

Adapted to recycled fabrics and natural fibres







Example of application – Sleaveless down jacket



US padding and assembling by Rovitex

Performant/sustainable materials

- Recycled polyester
- Wool
- Waterproof

Proximity and territorial relevance

- Made in France
- Valorization of greasy wool





Thank you



Website





Auvergne-Rhône-Alpes Region's policy for the textile industry

Inès Lejeune, Delegation of the Auvergne-Rhône-Alpes Region in Brussels







Auvergne-Rhône-Alpes Region's policy for the textile industry

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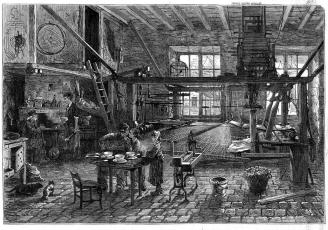


Textile industry in Auvergne-Rhône-Alpes: Between heritage and innovation

Long textile tradition in the region - Silk weaving for the fashion and decoration markets as craftsmanship and manufacturing of excellence since the 19th

First employment region for the French textile industry

- 27% of the companies at national level located in the region (2021)
- Some intermediate-sized-enterprises but mainly SMEs and very small enterprises, representing 90% of companies in the sector



Regional companies covering all activities of the textile sector...

- Yarn procurement and processing
- Textile manufacturing (weaving, knitting, braiding, non-wovens)
- Finishing (dyeing, printing, finishing)
- Cutting, confection, assembly

... and active on all markets:

- Fashion/clothing (45%)
- Decoration/furniture (10%)
- Technical and functional textiles (45%)

French leader in technical and functional textiles

- Wide variety of applications, notably for healthcare, sports and leisure, aeronautics, PPE, industry and civil engineering.
- Technical textiles produced in the region represent 45% of the French production







Smart Specialisation Strategy (S3) Auvergne-Rhône-Alpes: Textile industry as priority sector for support to R&I

Textile industry is identified as one of the key sectors in the Regional Plan for Economic Development, Innovation and Internationalization (SRDEII)

- The textile industry is therefore **one of the sectors that the Region intends to foster the development of as a priority**.
- As the SRDEII constitute the reference framework for the application of intelligent specialization (S3), the textile industry is therefore **identified as one S3 sector**, for which priority should be given to mobilizing European funds managed by the Region (ERDF) in support of innovation.

Textile industry also covered in the 4 regional sectors of excellence

- **4 sectors of excellence** that the Auvergne-Rhône-Alpes Region intends to support more specifically: Health industry, <u>Sustainable materials</u>, Microelectronics and AI, Hydrogen.
- The textile industry as a sector of activity included in the broader **sustainable materials sector of excellence**: challenge of energy and environmental transition, especially recycling.

S3 Partnership "Smart Regional Investments in Textile Innovation"

• Auvergne-Rhône-Alpes region is **one of the regions participating in the partnership**, established in 2015.







Current challenges for the textile industry in Auvergne-Rhône-Alpes and its transition towards circular economy

General challenges

- Increased supply of raw materials, both synthetic and natural
- Increasing demand for recycled materials and eco-designed products
- Need to reduce the impact on aquatic environments, as well as on human health and the environment
- **Growing awareness** among citizens and consumers **of the environmental impact** of products, leading to changes in their consumption habits
- Strengthening of regulatory frameworks and public policies in favor of the ecological transition of the textile sector (at national and European level), identified as a priority sector due to the high potential for circularity, sustainability and innovation in its value chain.

Circular economy challenges for the regional textile industry

- Increasing recycling rates: textile recycling rates remain very low compared to other sectors (less than 5% post-production and 33% post-consumer);
- Improve recyclability and the integration of recycled raw materials in new products;
- Manage and increase the **efficiency of resource consumption** in textile production (water, raw materials, energy);
- Enhancing the industry's image with the general public: a better, more virtuous image would make the industry more attractive to young people and job-seekers.







Auvergne-Rhône-Alpes Regional agreement for the textile industry

Supporting the environmental transition of textile industry actors

Ambition and general objective

• Create the conditions that will encourage the transition of the textile sector to the circular economy, in order to provide effective and economically attractive solutions.

Six priorities identified

- 1. Set up collective actions to support textile companies in their environmental strategy
- 2. Support companies in implementing innovative solutions;
- 3. Identify and characterize waste deposits;
- 4. Optimize the collection of post-production textile waste streams for reuse or recycling;
- 5. Contribute to the development of a recycling industry in the Auvergne-Rhône-Alpes Region, thereby creating added value and jobs;
- 6. Supplying French textile industries with high-quality recycled materials, while ensuring their traceability.

REGIONAL AGREEMENT PARTNERS

- Auvergne-Rhône-Alpes Region → Regional authority
- Union Interenterprises Textiles
 Auvergne-Rhône-Alpes UNITEX →
 Professional organization for the textile
 industry in Auvergne Rhône-Alpes
- **Techtera** → *Textile cluster*
- Institute Français du Textile et de l'Habillement – IFTH → French technology center for industrial companies and brands in the Textile and Fashion sectors

A comprehensive program built around four strategic pillars







Auvergne-Rhône-Alpes Regional agreement for the textile industry

4 strategic pillars and 8 operational actions

Pillar 1: Encouraging companies to make the transition to a circular economy

- Action 1 Raising awareness and training companies (directors, managers, project leaders, etc.) Information and training workshops on the various topics/aspects of circular economy.
- Action 2 Share Days around the present Agreement Two days are planned to mobilize textile companies around the circular economy + Week "Demain le textile"

Pillar 2: Manage and recover/recycle post-production textile materials (waste)

- Action 3 Identify and characterize post-production textile waste in the Auvergne-Rhône-Alpes Region Conduct of a study prior to setting up channels for collecting and recovering textile production off-cuts, in order to identify and qualify the textile industrial waste deposit in the region among a representative sample of 25% of regional companies.
- Action 4 Study of the feasibility of material recovery solutions for post-production textile waste in the region Conduct of an initial technical and economic analysis of local opportunities for reuse and recycling. A handbook of practices for reducing volumes of non-recoverable waste will be published and distributed to all regional textile companies.







Auvergne-Rhône-Alpes Regional agreement for the textile industry

4 strategic pillars and 8 operational actions

Pillar 3: Develop eco-design and prevent waste

- Action 5 Focus on eco-design in textile companies (*Level 1*) Collective activities to raise awareness for companies and specific training for the teams of TECHTERA, UNITEX and IFTH to enable them to provide first level of support.
- Action 6 Support for the implementation of eco-design projects in companies (*Level 2*) More intensive support for companies wishing to experiment with innovative eco-designed solutions

Pillar 4: Sobriety and energy and water efficiency in the textile industry

- Action 7 Promoting the decarbonization of companies Possible mobilization of various schemes to help manufacturers rethink their processes and means of production in response to the challenges of the energy transition and decarbonization.
- Action 8 Developing water-saving solutions Prospective action dedicated to water recycling savings, with the aim of identifying pilot processes that are efficient in terms of water consumption and recycling; Identification of the best existing international technologies and conduct workshops with willing regional companies







ASTER Project

Promoting the transition to a circular and resource efficient economy in the textile and plastic industries of the Alpine regions

Auvergne-Rhône-Alpes as Lead partner of the ASTER Project

Alpine Solutions for the Transition of the textile and plastic Equipment industry and the harmonization of interregional 5R strategies

Objectives

- Gather textile and plastic ecosystems to promote the transition to a circular and resource efficient economy
- Evaluate the current framework and solutions for waste prevention and management;
- Develop common practices, policies and regulations tailored for the Alps;
- Improve the prevention and management of textile and plastic waste in the Alps by providing pathways to harmonise policies and regulations across the region.

3 group of activities

- Characterizing waste prevention and management
- Alpine pathways to better prevent and manage waste: prototype and test the circular principles (5R)
- Solutions transfer to the ecosystem

ASTER

- Interreg Alpine Space project
- 3 years

11 partners

- * Germany * Italy * France
- * Slovenia * Austria

Auvergne-Rhône-Alpes

- Auvergne-Rhône-Alpes Region → regional authority
- Techtera → textile cluster
- Polymeris → plastics cluster
- Cluster Montagne → mountain development cluster









Q & A





Thank you

For more information about the RegioGreenTex Community Talks, contact: charlotte.dems@textile-platform.eu









Building a circular textile value chain: Portugal GreenTex Hub

Introduction to the Hub, Interregional Focus Group and Presentations of SMEs

13 March 2025 • 10:30-11:30 • Online

