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Tomorrow’s textiles, the circular economy, theme at the heart of textile transformation
By Kim PICARD-CHAIBI – Projects Manager

Previously, just a great idea! Now, the circular economy has rightly become a priority in all areas.

Modification of legislation, especially with the “Circular Economy Anti-Waste Act”, coming into force in 2022, as well as dedicated funding, underline this accelerating trend. So, many projects are flourishing.

Textiles are no exception. Over the last few years, environmental problems have become a real issue - just like other industries.

However, the textile sector remains particularly complex to tackle as regards recovery (mixed materials, products, colours, presence of hard spots, etc).

All those involved with the sector, whether as manufacturers, marketers or simply consumers, are endeavouring to recover their “waste” (unsold items, production scraps, post-consumer textiles, dormant stocks, etc). Thus, work is needed at all stages of the value chain, to transform the sector.

There are many ways, including:

− Finding new viable business models
− Developing recovery methods with low environmental impact (reuse, upcycling, sub-cycling)
− Improving recycling technologies
− Massifying deposits
− Developing new materials and eco-designed products

To understand these issues and find ways to respond to them, we invite you to take part in the event: “Textiles Tomorrow: The Circular Economy”.
Focusing on Performance for R&D BOOSTER in 2021!

In 2020, Techtera presented four joint innovation projects at the R&D Booster call for projects, with a success rate of 75%.

In 2021, Techtera kept up the momentum with the submission of three projects and a success rate of 100%. For itself alone, the national textile industry innovation cluster is involved in around 14% of the projects selected.

A dynamic driven by the actions of the innovation cluster, but also by the involvement of the teams and their know-how. Not to mention the manufacturers and laboratories that are members of the textile industry, who are constantly innovating to maintain a competitive advantage in their markets.

More about the three funded projects:

- Develop a mobile device for the primary decontamination of fire-fighting gear and equipment
- Recycle PVC textile composites in closed circuit by coating processes
- Develop and validate an air and surface treatment device

The R&D Booster scheme aims to finance Research and Development projects, with a budget of between €500,000 and €1,000,000, with the aim of launching new products, processes or services on the market in the short or medium term (from 12 to 24 months).

Projects must respond to the challenges of at least one of the region's main strategies.

The consortiums consist of at least two companies and a research and information-spreading organisation. Also, they should be positioned on Technology Readiness Level (TRL) - between 5 and 9.

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Our services

The new international development plan for 2022!

Techtera is supporting the textile industry internationally in 2022

In order to obtain regional financial aid for eligible companies, and provide the best support for textile companies in their overseas development, Techtera submitted its 2022 international development plan to the Auvergne-Rhône-Alpes Region in September.

A presence at major trade fairs dedicated to technical and creative textiles

For the second time, Techtera proposes to be present for textile manufacturers at the Performance Days trade fair (Munich), with an on-site presence or through the cluster’s representation stand.
Techtextil – Texprocess (Frankfurt), a major trade fair for the sector, is also a great opportunity for the cluster to support companies wishing to exhibit in the France Pavilion, individually, or on the Techtera stand.

For companies operating in the home fashion market, Techtera will once again be present at the Heimtextil trade fair (Frankfurt), via the product exhibition on the French savoir-faire forum and provide support to maximise publicity of all the companies - exhibitors or not.

This action will allow participants to access new business opportunities while benefiting from regional support (on eligibility criteria), as well as from the influence of the Techtera innovation cluster and its members.

**International missions outside Europe and in Germany**

Techtera also proposes an exploratory mission during the Neonyt show (Frankfurt) and the Frankfurt Fashion Week, in order to support companies in the trend for fashion that is sustainable and full of new ideas.

For those involved in technical textiles, two exploratory missions during key events in the sector are planned: in Japan (defence and security - DSEI Japan) and in the United States (technical textiles, Techtextil North America).

These two missions take place within the framework of two European projects, EU-ALLIANCE and TEXGLOBAL. They aim to allow participants to gain a better understanding of these markets, to carry out technology watch and to establish relevant contacts.

**A technology watch throughout the year**

Monitoring, with feedback on major events in the textile industry, especially in the creative sectors, are planned throughout the year.

**Techtera continues its development on the European scene**

The cluster is stepping up its deployment, at a European level, in 2022 with the following objectives:

- Develop key partnerships
- Set up European projects
- Support its members to acquire this European dimension, and thereby gain access to new modes of technological development

*More details about all this international action will be communicated throughout the year.*

**Contact:** Julie RAFTON-JOLIVET – jrafton@techtera.org
They are members

**Rinco Ultrasonics**

Rinco Ultrasonics, a member of the Crest Group, is one of the **world leaders for ultrasonic welding and cutting**.

With around 130 people, representatives in over **40 countries and nearly 50 years of experience**, they are trusted partners. Manufactured according to ISO 9001, ISO 13485 and ISO 14001 standards, their equipment allows them to develop personalised solutions for welding and cutting technical woven textiles, non-woven fabrics, as well as for the assembly of thermoplastics.

From the standard machine to the customised solution, each of their products contains unique technical know-how, drawn from decades of experience.

Moreover, **most of their equipment is modular**. This means it is possible to integrate components from a manual ultrasonic workstation into automatic lines or special machines.

In addition to a commercial presence in the Auvergne-Rhône-Alpes and Centre Val de Loire regions, the Rinco France team, located in Eragny Sur Oise (95), makes tools, keeps stocks of spare parts, has a maintenance service and a test laboratory for qualifying applications.

**Website:** [https://www.rincoultrasonics.com/fr/](https://www.rincoultrasonics.com/fr/)

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**FAIRBRICS**

In 2019, two professors, a materials specialist and a chemist, joined forces with the optimistic idea that through **molecular chemistry**, they could change the future of fashion.

So, the company developed Airwear, a **new textile fibre, with the same properties as polyester**, but which contains only **30% CO₂** - with a carbon footprint reduced by a factor of two.

The technology is inspired by **Tawfiq research work** led by one of the executives. The team now consists of eight people based in its research laboratory in Loges-en-Josas (78).

The Fairbrics ambition is to **scale up its processes**. To achieve this, it is at present working on the **construction of a pilot line**.

The Fairbrics mission is to fight climate change by developing circular textile manufacturing processes, using renewable resources instead of petrol-sourced products.

**Website:** [https://fairbrics.co/](https://fairbrics.co/)
Your appointments with the cluster

**September 30, 2021: Impact of the pandemic on the future development and use of technical textiles** - Webinar (9h-16h)

In the context of EU-TEXTILE 2030, Techtera is associated in organising the third edition of the European Technical Textiles Exchange Days.

Discover European textile innovation linked to changes in use and application of technical textiles!

This event is organised by IVGT (*Germany's biggest textile association*) in association with ETP, EU-TEXTILE 2030 and CONTEXT.

Programme: [Here](#) - Inscription: [Here](#)

**Contact:** Bruno MOUGIN - bmougin@techtera.org

**October 6-7, 2021: International congress- Color, Materials & Finishes**

Centre de congrès Prouvé – NANCY - FRANCE

This congress is the essential event to discover new decors, materials, products and services in the automotive decoration industry where design and high-performance technologies must be combined to meet the expectations of customers.

**Two days of exchanges, meetings, networking and of presentations:** a unique opportunity to meet fellows, to exchange on common topics, to discover new decoration and materials, new products and services, and to attend conferences.

This event will be organized around four themes that build attractive design and perceived quality, taking as well in account the enhancement of material and decoration durability, and the reduction of their environmental impact.

*For members: You will have the opportunity to participate in the event at a reduced cost.*

**Contact:** Julie RAFTON-JOLIVET – jrafton@techtera.org


Building on the success of the first edition of the “Textiles tomorrow: the circular economy” week, Techtera, UNITEX, CIRIDD (International Resource and Innovation Centre for Sustainable Development), the Auvergne-Rhône-Alpes Region and the Greater Lyon Metropolis are organising the second edition, from October 11 to 15, 2021.

**Round tables** will take place, Monday to Wednesday from 8:30 am to 10 am, then business meetings will be organised on Friday morning.

This new edition will also include innovative features; in particular a hackathon (*informal event where programmers and others meet for software development*) concerning the circular economy and textiles, bringing together six schools from the region.

On the last day, **Friday October 15, the event will be held at the Pollutec trade fair**; with business meetings, a round table, hackathon pitches and a cocktail.

**Contact:** Kim PICARD-CHAÏBI - kpicardchaibi@techtera.org
October 19, 2021: Working group CONTEXT – GUIMARAES – PORTUGAL

The five Context work groups (www.context-cost.eu) will meet on October 19. Open to all (laboratories, companies), their aim is to create projects at European level in the following sectors: health, sport & wearable, construction, transport and PPE (personal protective equipment). Face-to-face format to be confirmed, depending on the evolution of the health situation.

Contact: Bruno MOUGIN - bmougin@techtera.org

October 20, 2021: The CONTEXT Annual Conference – GUIMARAES – PORTUGAL

The CONTEXT network is organising its annual conference. The organisation of work groups, concerning smart textiles applications for health and sport, will take place the day before the event. These work groups are open to all.

Contact: Bruno MOUGIN - bmougin@techtera.org

Octobre 22, 2021: Innovation workshop - Textiles, flexible materials & Energy - Webinaire

Smart textiles are increasingly present in our daily lives. Most of the efforts are concentrated on new applications, washability, standardisation, etc. However, despite all the research investments, the production, supply and storage of energy remains a challenge, which is strongly implicated in the final objective.

The main aim of this Webinar (Web conference) is to present the latest innovations, to give an overview of the challenges and to reinforce the European network on this subject.

This Webinar is organised as part of CONTEXT.

Contact: Stéphane BONE – sbone@techtera.org

October 26-29, 2021: A+A trade show (PPE) – DÜSSELDORF - GERMANY

A+A is a major trade fair for the textile industry dedicated to protection, safety and health at work. The event takes place every two years and offers a comprehensive overview of processes and new materials in the field of PPE (personal protective equipment).

Once again, Techtera will be present at the event to support firms, in partnership with Business France.

Twelve companies and organisations are supported by Techtera at the A+A show: ALPEX PROTECTION - BARRAL - CETI - CLIM8 - EUROPROTECT - IFTH - MANUFACTURE HARTMANN EURO TF – CERNAY PRO - MDB TEXINOV - MITWILL - OTEGO - ROVITEX - TECHNI SANGLES

We will be delighted to meet you on our stand in the French Pavilion, Hall 9 / C59-3.

Contact: Lucie LAGARRIGUE – llagarrigue@techtera.org
November 15-18, 2021: Medica trade show (Health) - DÜSSELDORF - GERMANY

Techtera will be present at MEDICA, the world trade show dedicated to the health sector, with a delegation of companies. During its last edition, the show welcomed nearly 6,300 exhibitors and over 121,000 visitors from 176 countries.

It is held in conjunction with COMPAMED, an event dedicated to raw materials, components and plastics related to the medical sector. This French pavilion is organized in partnership with Lyon Biopole, I-Care and Business France.

3 structures are supported by Techtera at the MEDICA exhibition: BARRAL - LE CETI - FONTANILLE.

Contact: Robin ODDON – international@techtera.org

December 1-2, 2021: Performance Days (Sport) - MÜNCHEN - GERMANY

Performance Days is the meeting place for fabrics, knits and textile accessories for applications in functional sportswear and sporting leisure.

Contact: Robin ODDON – international@techtera.org

January 11-14, 2022: Heimtextil Trade show (Home textiles) - FRANKFURT – GERMANY

Techtera will be present at Heimtextil, the main exhibition dedicated to the home textiles market; with more than 2,900 exhibitors and 63,000 visitors.

For the second year, Techtera is organising the "French Savoir-Faire” forum. This promotional stand will highlight the quality, originality and innovation of French companies. Participants will be able to exhibit their flagship products.

This action benefits from the support of Région Auvergne-Rhône-Alpes Région.

Contact: Lucie LAGARRIGUE – llagarrigue@techtera.org
Life of the members

**IFTH - The trade fair season**

IFTH (French Institute for Textiles and Apparel) introduces professionals at trade fairs and events to technologies, prototypes and functionalisation of textiles, in the fields of Industry 4.0.

- A system for taking 3D measurements and creating avatars - in partnership with NETTELO
- An innovative table dedicated to the projection of templates - provided by MAUGIN
- Three prototypes from the following research projects were also promoted:
  - E-FASHION² (connected activewear): IFTH (French Institute for Textiles and Apparel) manufactures a connected knit jumpsuit
  - KHROMATEX: the Clément Ader Institute and IFTH have created mechano-chromatic systems for the manufacture of fabrics with photoluminescent patterns
  - MAGYFIL (new generation of light filaments for Fashion and Luxury)

IFTH will be present at A+A 2021 alongside Techtera.

**Website:** [www.ifth.org](http://www.ifth.org)

**Dior in partnership with Julien Faure**

Julien Faure has worked with Maison DIOR to create the Miss Dior perfume bottle.

The ribbon that adorns the bottle was tailor-made and manufactured in the workshops of the Julien Faure company.

With a prestigious “Luxury” clientele and developments in technical textiles, Julien Faure devotes 10% of turnover to R&D. Moreover, he has a team with extensive know-how and a stock of 50 ribbon shuttle looms, from the oldest (150 years) to looms of the 21st century.

**LinkedIn video:** [ici](http://www.julien-faure.fr)

**Website:** [www.julien-faure.fr](http://www.julien-faure.fr)

**Inauguration of the first automated French sports shoe factory by ASF 4.0, a Chamatex Group subsidiary**

One year to the day, after laying the foundation stone, despite the health crisis, Advanced Shoe Factory 4.0 (ASF 4.0), a subsidiary of the CHAMATEX GROUP specialising in technical textiles, has inaugurated its automated production unit for sports shoes, in Ardoix, Ardèche, alongside Siemens. The project led jointly by the Chamatex group and its partners Salomon, Babolat and Millet (also member of Techtera), represents an investment of €10 million, to which the state and the region have each pledged up to €300,000.
For this large-scale project, Siemens has put all its expertise concerning Industry 4.0 at the service of a real economic challenge: automating and relocating the production of sports shoes into France. The first shoe "made in ASF 4.0", will be a Salomon model dedicated to the sport of trail running and active hiking - available for sale in early 2022.

Website: [www.chamatex.net/](http://www.chamatex.net/)

Calls for projects

**EUROPEAN AND INTERNATIONAL CALLS FOR PROJECTS**

**Horizon Europe**
More information: [here](http://here)

**EUROSTARS (Coming soon)**
European funding for bilateral projects, in "enlarged" Europe for companies with high R&D performance.
More information: [https://www.eurostars-eureka.eu/about-eurostars](https://www.eurostars-eureka.eu/about-eurostars)

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**CART'TEX**

**Call for applications for the CART'TEX chart (reserved for TECHTERA members)**
Textile companies wishing to join "CART'TEX", the chart of textile skills created by TECHTERA, can make themselves known to Bruno MOUGIN.

The CART'TEX database is the daily tool of the cluster for managing the search for partners for all projects, and for the response to business opportunities.

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