



## Edito

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### Techtera is moving home; to be even more at the heart of textiles!

Right in the middle of the Ecully Teaching and Research Campus, the Techtera team will be pleased to welcome you as **from January 2, 2020, in its new premises** of 600 m<sup>2</sup>.

This legendary place will mark a **new stage in the textile innovation process**, creating a bridge between ideas and manufacturing, thus meeting the demands for a **flexible industrial response from the sector**.

In this place, **great for interaction, with so many organisations working on innovation**, Techtera will welcome those embarking on innovative textile projects.

**This modern building, designed for group-working methods**, will house the Techtera operations team, which has been deeply involved in the creation of these new premises. Requirement detection workshops, questionnaires to define ambiance, meetings at each approval stage – all these have allowed everyone to place their foundation stone in the building.

With 300 m<sup>2</sup> of technical space, and 295 m<sup>2</sup> of offices and co-working areas, manufacturers, engineers, and researchers will be able to share equipment, to develop and manufacture their prototypes and small series of products in partnerships.

This fine project has been created, not only thanks to the support of the Regional Bank for the Building Industry, but also thanks to the City of Lyon.

We are looking forward to meeting you at 91 Bis Chemin des Mouilles in Ecully!

And to call us? Nothing changes!

## Focus

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### The R&D Booster, lever for innovative partnerships

The R&D Booster scheme was created in 2017 by the Auvergne-Rhône-Alpes Region. It **aims to finance Research and Development projects and launch new products, processes** and services on the short- or medium-term market (between 12 and 24 months).

Since 2017, Techtera has approved **three projects funded by the R&D Booster scheme, including FOURMI and AC2M2:**

- The aim of the FOURMI project is to develop an innovative technology for monitoring surfaces, using a smart textile (Lightex®). One of these new technology applications will be the development of a new monitoring system for structural work and identify signs of deterioration, thereby limiting heavy maintenance jobs.
- The AC2M2 project (Composite Armatures with Mineral Matrixes) aims at developing a prototype production line of composite armatures, with multifunctional hybrid textile reinforcements and mineral matrix.

With the current trend for lighter weight, refinement, modularity and stronger building materials, high-performance concrete needs suitable armatures. Textiles lend themselves perfectly to these functions to answer the problems of the building sector. This project's purpose is to improve structural service life, reduce the environmental impact of component production, while improving the thermal properties of products. Eventually, the developments generated by AC2M2 will make it possible to evolve building procedures; especially through the use of new implementation technologies (E.g.: 3D printing).

These three projects reflect the vitality of the textile sector, which continues to innovate.

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## Our services

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### Japanese mission dedicated to textiles, information and communication technologies for defence and security

As part of the ALLIANCE project, together with seven European clusters (France, Italy, Netherlands), Techtera is organising an exploratory mission concerning security and defence in Japan. The aim is to support companies in their deployment to Japan, and create an environment conducive to industrial and academic cooperation between Japanese key accounts and European enterprises.

#### **japan mission: to meet major players in japanese defence and security**

Participants will be able to take part in the **[Wearable Expo](#)**, a major event dedicated to wearables and associated technologies, which, during the previous edition, brought together 141 exhibitors from 10 different countries and 13,750 visitors. This year, **[Asahi Kasei Corporation](#)**, **[Teijin](#)** and **[Mitsui Chemicals](#)** will be present; an opportunity to meet key companies in the field of Japanese security and defence. Techtera and the members of the Alliance consortium will be present on a dedicated stand, allowing the creation of a meeting space as well as greater visibility for the know-how of participants at this major event in the industry.

The mission will also include networking sessions, B2B meetings and visits to companies / institutes. Among them is **[Kuraray](#)**, a major player in the Japanese security and defence market and one of Japan's leading producers of fibres, resins and chemicals. This company, a member of Techtera, works closely with the Japanese Ministry of Defence.

Techtera will also be present at this project with a stand at the show. Interested companies may display their products in the showcase, thus benefiting from a real presentation of their know-how at this key event for the industry.

## **MISSION PREPARATION: UNDERSTANDING THE CHARACTERISTICS OF THE JAPANESE MARKET**

To prepare interested companies for the Japanese market, a dedicated workshop will be organised on December 17, 2019 at Villa Créatis (Lyon). The aim is to present a complete panorama at the technological, market and intercultural level, and give participants an overall view of the Japanese defence and security sectors. This half-day of involvement will be carried out **entirely in English** and will discuss several themes:

- **Overview of the Japanese defence and security market:** textiles, Internet, cybersecurity, aerospace
- **Technology watch** on Japan on these same themes: patents, publications, state of knowledge
- **Awareness of intercultural relationships**, with Japanese speakers: preparation of meetings, monitoring, good relational practices

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## They are members

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Created in 1926, **TECHNISANGLES**, (*engineering and development*), is a **French weaving company** dedicated to technical innovation through the **use of high-tenacity materials** such as aramid, para-aramid, Dyneema, ultra-high-molecular-weight polyethylene, polyester and polyamide fibres for straps.

The company operates in several fields: personal protective equipment, outdoor sports equipment, industrial and military applications, fashion and luggage.

Technisangles recently developed a **variable width strap**. This patented product, with high abrasion resistance (compliant with European and American standards) is mainly used in the field of safety-harness manufacturing. One strap can have two or three different widths, making it easier to loop.

Forerunner and only manufacturer of variable width jacquard, **Technisangles continues its technical and human investment** with a stock of 33 looms and by strengthening its technical production teams.

**Website:** <https://technisangles.fr/presentation/>



**EFFBE specialises in the manufacture of membranes.** As designer of the first synthetic elastomer membrane, the company has enriched its expertise to offer **solutions to industrialists with the design and manufacture of membranes** for many sectors, including motor vehicles (its historical expertise), industrial regulation (water, gas, pneumatic), medical, aeronautics, nuclear and electronics.

EFFBE is developing a complete series of membranes capable of meeting the physical, chemical and standard requirements of these sectors with **a wide range of materials and combinations of materials**: Reciflex® membranes, flat membranes, horizontal or unrolling, as well as elastomer technical components. Today, the company is a leader in the world market for synthetic elastomer membranes.

Thanks to its international production sites, EFFBE offers support for its customers on the main continents (Europe, Asia, America).

**Website:** <https://www.effbe-diaphragm.com/>

**They are also members:**

[AFITEXINOV](#) | [BMI - SOFILA](#) | [CHOMARAT](#) | [INSTITUT CARNOT](#) | [D2P BILLON](#) | [EFI LIGHTING](#) | [INSA LYON](#) | [MANUFACTURES DE MODE](#) | [ART MARTIN](#) | [RECORBET](#) | [THUASNE](#) |

## Your appointments with the cluster

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### January 7-10, 2020: First “French know-how” presentation forum on Heimtextil – FRANKFURT - GERMANY

For the next edition of the Heimtextil trade fair, Techtera is supporting textile companies at **the largest international textile fair devoted to home textiles**.

In addition to support for exhibiting companies, Techtera invites you to participate in the first **“French savoir-faire” Forum, dedicated to promoting French textile know-how**. Your **various products will be on show** in Forum 4.1, *“Decorative and furniture fabrics”*.

This space, whose scenography will be **based on your flagship and innovative products**, aims to provide a **double presence for companies already exhibiting**. It will **give a new perspective to your products** while capturing visitors, who will be redirected to your stand to discuss in more detail.

For **companies unable to get a stand or want to test the show**, this forum will allow you to benefit from a highlight of **three flagship products and presence on the event’s official catalogue**. You can participate in the show **as a visitor**, so at a lower cost, while benefiting from an innovative and creative exhibition space. You can then **go with your prospects to this dedicated space** and show them your products presented creatively, and adapted to your vision.

You will also benefit from **dedicated communication**, such as publication of your company on the “French savoir-faire” presentation catalogue, press publications, an approach to brands and business partners, etc.

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## January 29-30, 2020: CONTEXT – Annual Conference – LJUBLJANA – SLOVÉNIA

The annual conference of the CONTEXT network (network of smart textile experts) brings together representatives from all the 34 member countries.

This meeting will be an opportunity to share **the results of the five thematic working groups** and to prepare activities for the coming year.

A technological and scientific conference is scheduled. *The content is being prepared.*

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## February 10-14, 2020: ALLIANCE; Mission to Japan

As **leader of the European ALLIANCE project**, aimed at the internationalisation of enterprises, Techtera will accompany you on a **joint mission to Japan**.

This mission represents a unique opportunity for those involved in Japanese defence and security.

**On the agenda:** participation at the Wearable Expo trade show, networking sessions, B-to-B meetings, company and institute visits.

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## February 11-13, 2020: The « PREMIERE VISION » trade show - Parc des expositions - PARIS NORD VILLEPINTE

Techtera, the French textile industry innovation cluster, with the support of Unitex, accompanies the companies of the sector at the PREMIÈRE VISION PARIS exhibition, from February 11 to 13, 2020 in Paris Nord Villepinte.

PREMIÈRE VISION is an international event, bringing together **six major materials and services trades dedicated to fashion**. Nearly 60,000 visitors are expected during these three days, with nearly 2,000 exhibitors.

Having their own stand at the show, companies will also benefit from a representation on the **joint stand “Silkies and Jacquards Made in France”** to maximise their visibility.

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## March 3-5, 2020: JEC WORLD 2020 (Trade show dedicated to composites) - Parc des expositions - PARIS NORD VILLEPINTE

**JEC World** is the international trade show **federating the world composites industry**. It provides users with a complete overview of **processes, new materials and dedicated solutions**. This unique event brought together more than 1,300 exhibitors and 43,500 visitors over the three days of the trade fair, giving exhibitors the opportunity to **develop their relationships** and **showcase their know-how** to key-account visitors.

Axelera, Techtera, Plastipolis and Viaméca renew their participation at this show on the **Composites Auvergne-Rhône-Alpes joint stand**.

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## March 17-20, 2020: ALLIANCE; Mission to South Korea

As the leader of the European ALLIANCE project, aimed at the internationalisation of companies, Techtera accompanies textile companies on a collective mission to South Korea.

The programme will be sent to you shortly.

*The ALLIANCE project brings together 7 European clusters and supports textile companies in the defence and security markets in the United States, Japan and South Korea.*

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## Life of the members

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### Diatex invests to support its growth

With annual growth of 20% over the last five years, Diatex faces significant production challenges. Specialist in technical fabrics, **Diatex today invests €1 million in the purchase of connected machines** to meet the increase in production for the aerospace sector. This purchase follows the €3 million previously invested in the weaving mill, and will help increase production of the company located in Saint-Genis Laval (69).

**Website:** <https://www.diatex.com/fr/>



### A new R&D centre for Elkem Silicones

On October 22, 2019, Elkem Silicones launched the construction of **a new R&D centre located in Saint-Fons, in Lyon**. Entirely dedicated to innovation, this 6000 m<sup>2</sup> site, including 2500 m<sup>2</sup> of laboratories, will be operational as from November 2020. The 130 international researchers, who will work there, will have the job of developing the silicone of tomorrow.

**Website:** <https://www.silicones.elkem.com/EN>



### Investments and a new activity at Orion

A specialist for shaping, cutting and assembling, Orion has launched a luxury leather goods business, doing preparation and assembly work for a major French group. This business development is accompanied by the creation of **120 new posts, with an investment of €2.5 million** for the construction of a building of 7000 m<sup>2</sup> and the purchase of preparation and sewing machines.

**Website:** <http://orion-groupecera.com/>



## A new running shoe concept for Salomon

At the same time as opening its "Experience store" in Munich, Salomon presented a new running shoe. Developed in the Salomon - Annecy R&D centre, **this shoe can be fully recycled into a ski boot shell**. Still in the design stage, the shoe is made of thermoplastic polyurethane. At the end of its service-life, it can be ground down and mixed with new raw material, to be integrated into the process of manufacturing the shell of a ski boot. Even if the shoe is not currently marketed, this success paves the way for eco-friendly manufacturing opportunities for high-performance sports products.

**Website:** <https://www.salomon.com/>

## Calls for projects

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### EUROPEAN AND INTERNATIONAL CALLS FOR PROJECTS

#### **Decarbonising long distance shipping (Closing: January 9, 2020)**

More information: <https://ec.europa.eu/info/funding-tenders>

#### **Innovative textiles –reinventing fashion (Closing: January 22, 2020)**

More information: <https://ec.europa.eu/info/funding-tenders>

#### **Industrialisation of building envelope kits for the renovation market (IA) (Closing: February 5, 2020)**

More information: <https://ec.europa.eu/info/funding-tenders>

#### **Innovative nature-based solutions for carbon neutral cities and improved air quality (Closing: February 13, 2020)**

More information: <https://ec.europa.eu/info/funding-tenders>

#### **Improving the sorting, separation and recycling of composite and multi-layer materials (Closing: February 13, 2020)**

More information: <https://ec.europa.eu/info/funding-tenders>

#### **Develop and pilot circular systems in plastics, textiles and furniture sectors (Closing: February 13, 2020)**

More information: <https://ec.europa.eu/info/funding-tenders>

#### **Advanced light materials and their production processes for automotive applications (Closing: April 4, 2020)**

More information: <https://ec.europa.eu/info/funding-tenders>

#### **EUROSTARS (Permanent)**

More information: <https://www.eurostars-eureka.eu/about-eurostars>

#### **Financements BPI-ACCIO (Permanent)**

More information: <http://www.bpifrance.fr>

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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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**Auvergne-  
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**GRAND LYON**  
la métropole

**UNITEX**  
Auvergne Rhône-Alpes