



TECHTERA

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The French
innovation cluster
for the textile industry

At the heart
of textile evolution

BOOTH

Hall 9 C59-3



Alpex Protection

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Barral

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WHO ARE WE?



Competitiveness & collaborative innovation

Techtera is the French innovation cluster for textiles, based in Lyon. We support our 248 members in the emergence, structuration and implementation of their collaborative R&D projects. Since 2005, we have approved and supported 227 financed R&D projects, for a global budget of € 580.4 million. We also provide business services: international collective missions, pavilions on trade shows, business launching of innovative products, identification of textile solutions for all industries.

227

financed projects since 2005
for € 580.4 million budget

47

workshops in 2020
with 2 360 participants

Techtera's projects in 2020:



25 in the process of emergence



17 ready to hatch



15 labelled



12 financed



4 launched

23

European projects
submitted in 2020

248

members on the
whole value-chain

4 GOOD REASONS TO BECOME A MEMBER

1

Anchor and develop the roots of innovation

All studies demonstrate a correlation between the results of a company and its ability to innovate. Joining Techtera means taking part in a proactive approach to innovation.

2

Share risks, ressources and access to specific public fundings

The labelling of projects by Techtera optimises your chances of accessing national and European fundings. Furthermore collaborative innovation allows you to enhance your investments.

3

Access key players of textile innovation

Seeking a skill, taking advantage of opportunities, setting up technological collaborations in the textile sector: the Techtera network meets your needs.

4

Benefit from high performance services

Techtera offers varied and relevant animation programs, assistance in your R&D projects, optimised visibility with influential key players, support on international markets...



TECHTERA'S SERVICES

► Industry stimulation

- Innovation workshops: generate R&D projects from the technology watch.
- Techtera's network workshops: generate R&D projects from the markets.
- Valorisation workshops: promoting the results of our members' R&D projects.
- Competitiveness workshops: improve markets
- The Techtera Clubs:
 - Club RECIT: Recycling and Circular Economy in the Textile Industry,
 - Club STeW: Smart Textiles & Wearables, knowledge for our members,
 - Club ICI 4.0: Industrial Club for Industry 4.0 in textile.



► Business development

- Business launching of innovative products: introduce innovations to the markets.
- International support: technological and business missions, collective booths on main trade shows, market studies and technology monitoring.
- CART'TEX database: find textile skills thanks to our 350 listed know-how or register to the CART'TEX database.
- Monitoring of the latest trends in fashion, clothing and housing thanks to dedicated programs: get a continuous and updated insights source on aesthetic and creative trends.

► Collaborative innovation

- Projects labelling: guaranty the viability of the project for better chances of getting a public funding.
- Projects support: at each key stage, for national and international projects.
- Identification of national and European fundings: identify the best suited fundings and calls for projects.

TECHTERAFAB: INDUSTRIAL ACCELERATION PLATFORM

- Technical hall of 350 sqm for equipment hosting, including assembly

- Prototyping, validation of pre-industrial processes and economic models

- Open to SMEs, midcaps, schools, technical centers, laboratories...



- Techtera team's office

- At the heart of West Lyon technical pole: next to IFTH, ITECH, CTTN and Ecole Centrale of Lyon

- Co-working spaces in independent subunits

91 bis Chemin des Mouilles - Ecully (69) - France



ALPEX PROTECTION



Alpex produces waterproof and breathable technical textiles, using a lamination process and different kind of membranes.

application areas

Personal protective equipment (industry, army, police, civilians, firefighters, workers), fashion, sports, automotive, aerospace and nautical industry.

products

Alpex's ranges of laminated material are dedicated to personal protective equipments, offering maximum protection and comfort in the most adverse environments (firefighters, military forces, police forces...).

innovations

NNF LAM ranges, built with Nomex® Nano Flex are without equivalent on the market: very light, they offer an unmatched stretch and resilience. That makes it one of the most comfortable materials for particulates blocking hoods.

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BARRAL



Barral designs, develops and produces protective masks for the general public, the industrial and the health sectors. Its products are eco-designed, produced in France, and recyclable at the end of their life. It allows Barral to offer collecting and recycling solutions the health sector, businesses and local authorities to reduce their environmental and CO₂ impact.

application areas

Personal protective equipment (military, police forces, firefighters, workers, civilians, industry), fashion, automotive, aeronautics, building.

products

Barral designs, develops and produces 3 types of masks:

- community mask filtration over 90% (for non sanitary use),
- type IIR surgical mask (single use and sanitary),
- FFP2 NR mask (single use).

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Cernay Pro MHE



Manufacture Hartmann - Euro TF is specialized in the production of technical fabrics (weaving and finishing), especially printed fabrics with camouflage design in VAT / dispersed dyes.

application areas

Personal protective equipment (industry, military, police forces, workers, corporate), automotive, medical equipment.

products

Manufacture Hartman - Euro TF is specialized in the production of technical fabrics (weaving and finishing), especially printed fabrics with camouflage design in VAT / dispersed dyes. Its department CERNAY PRO is marketing a large range of fabrics for workwear and corporate apparel. MHE is accredited to ISO 9001 - Oeko-tex Standard 100.

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CETI



CETI is an European technological platform for textile innovation at the service of the competitiveness and sustainability of companies. Driver of the circular economy for prototyping from the fiber to the finished.

application areas

Personal protective equipment (industry, workers, military, firefighters), automotive, aerospace, aeronautics, medical, fashion, sports.

products

CETI pilot scale tri-components melt-spinning unit has been designed to produce fully oriented tri-components, bi-components and mono/homo filament yarns. Their applications include: electrical and thermal conductive yarns, bio-based (PHA, PLA, etc) yarns, elastic (PBAT) yarns, and more recently cellulose based yarns. CETI owns the most recent technologies for designing, testing, prototyping and industrializing the latest novelties in nonwovens. The R&D team is enhancing nonwovens performances with embedded charges into the core of the filament.

innovations

Textile-to-textile recycling system for discarded textile products: developing technological innovation in mechanical and thermo-mechanical recycling processes of natural and synthetic fibres, as well as fibre blends.

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CLIM8



As a premium e-textile partner and ingredient brand 4.0, Clim8® pioneers powerful intelligent heated technology, designed by science and adjusted to each user's needs to help people live, work and perform in cold environments.

application
areas

Personal protective equipment (military, workers, civilians, industry), automotive, aeronautics, aerospace, fashion, sportswear.

products

Clim8® provides its best in class, award winning intelligent heated technology to its premium partners. Embedding Clim8® electronics in gloves, jackets, footwear, baselayers and other accessories, Clim8® and its partners build the new generation of smart thermal clothing powered by AI.

innovations

Clim8® partnered up with Mechanix Wear to launch the ColdWork™ M-Pact® heated gloves, a groundbreaking smart personal protective equipment, that uses Clim8® intelligent, self-regulating heated technology.

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EUROPROTECT



Europrotect creates & sells a complete range of fabrics and knitted fabrics in aramid, aramid viscose, modacrylic/ cotton, etc. for protective apparel.

application
areas

Personal protective equipment (industry, military, police forces, firefighters, workers).

products

- Multirisk
- Electric arcs
- Polar fleece
- Softshell
- High visibility
- Laminated
- Outer shells
- Membrane
- Lining
- Camouflage fabrics

innovations

Twin Kub®: new generation of Twin Square®, which is a perfect combination of comfort, protection and durability. A diamond weaving with high mechanical performances and excellent heat transfer.

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IFTH



IFTH is the French technical center for textile and clothing industries. IFTH supports the performance of companies from textile fiber to the final products, such as PPE.

application
areas

Personal protective equipment (industry, police, military, firefighters, workers, civilians).

products

The accredited ISO 17025 laboratory evaluates compliance with Regulations, European standards and inhouse quality guidelines. The PPE certification Department is covered by ISO 17065 accreditation which guarantees impartiality and competence.

MDB Texinov



MDB Texinov is a French manufacturer of personal protective equipment and medical devices: the TexiShield® product range includes FFP2 and FFP3 respirators certified to EN 149 and EN 14683 IIR.

application
areas

Personal protective equipment (medical, person's care, industry, civilians...), health, automotive, agriculture.

products

The TexiShield® range of masks is offering an unequalled level of comfort and breathability thanks to the lightness (<4g), the flexibility of the material and the attachment system at the back of the head.

innovations

Unlike conventional FFP3 masks, TexiShield® FFP3 masks combine exceptional performances through patented technology: protection, comfort, lightness and breathability while meeting the requirements of EN 149.

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MITWILL



Mitwill Textiles Europe is a design-based textile company with a digital microfactory in the Alsace region of France, creating a collection of printed textiles.

application
areas

Fashion, corporate (civils, workers).

Services

S2G style2garment.com powered by Mitwill Textiles Europe is a web platform networking an archive of corporate fashion styles with printers and garment makers providing a virtual prototyping tool and standard or customized services.

innovations

The S2G platform (Style 2 Garment) powered by Mitwill Textiles Europe shows 3D models of corporate fashion styles as virtual prototypes to save time and money in the sampling and production process.

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OTEGO



Otego is a world specialist in technical fabrics for applications requiring heat, molten metal splash and flame protection, release coatings and abrasion resistance. Located near Lyon, Otego exports 85% of its production to more than 110 countries and has offices on the 5 continents.

application
areas

Personal protective equipment (industry, firefighters, workers), industry (furnaces).

products

Fireshield is a multilayered fabric for firefighting proximity suit, designed to offer high radiant heat protection without sacrificing mobility and comfort. Fireshield is compliant with EN1486, GA634, KFI standards. NFPA 1971 is underway.

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ROVITEX

Rovitex
lamination

Specialised in lamination service, Rovitex proposes cutting edge technology solutions. It offers waterproof and breathable complex with different types of membranes. The company is based in France and Thailand.

application
areas

Personal protective equipment (workers), workwear, lingerie, sportswear, automotive, aeronautics and building.

Services

Rovitex offers sourcing and expert advice in the selection of the right material, with a strong dedication to details to provide high quality solutions for a wide range of needs (comfort, soft, light, fashion, high support, water repellent, waterproof, breathable, high filtration, insulation, abrasion and fire resistant, high visibility...) with a continuous customer support.

technologies

- Calendering lamination
- Flat lamination
- Hotmelt lamination
- Inspection
- Strip cutting
- Flexible or semi-rigid pieces cutting

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TECHNISANGLES

techni
ANGLES
INGENIERIE & DEVELOPEMENT

For more than a 100 years, Technisangles - Engineering and Development, is a French weaving company dedicated to technical innovation using high tenacity materials such as aramid, para aramid, Dyneema, Hmpe, polyester and polyamid fibers for straps.

application
areas

Personal protective equipment (industry, military, police forces, firefighters, workers), outdoor sports equipment, fashion, luggage, sports, aeronautics and building.

products

Harnesses, slings, tethers, safety lines, slack lines, paragliding...
Specifics: narrow-wide, high tenacity webbings.

innovations

- A single strap could have two or three different widths, easing passing in buckles. Mainly used in security harness manufacturing.
- Height variable patented straps
 - High abrasion resistance
 - Fits the European and American standards

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NOTES & CONTACTS



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