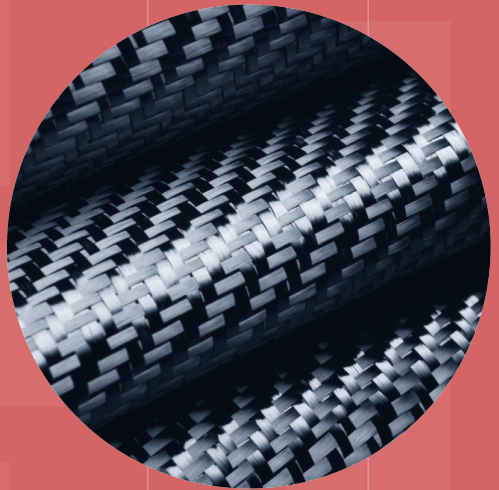


SOURCE OF TEXTILE INNOVATION FOR OUR FUTURE

Protection / Defense Security



Nearly
300
members



Public actors
Ministries



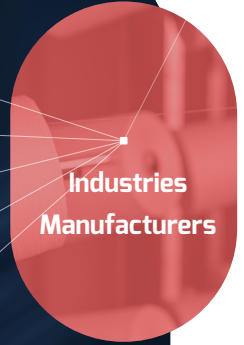
First tiers
suppliers



Laboratories
Technical
centers



Major prime
contractors



Industries
Manufacturers



Schools
Universities

Strategic priorities

- INDUSTRY OF THE FUTURE
- CIRCULAR ECONOMY
- ADVANCED MATERIALS

Key figures

over **270**
projects financed
since 2005

for an
amount of
over **650** M€

Services

Innovation

- . Emergence of ideas
- . Projects support
- . Projects labelling
- . Hosting innovation projects

Economic development

- . Business opportunities
- . International development
- . Enhancing visibility

Territorial development

- . Support for reindustrialisation
- . Local value chains development
- . Inter-industry development
- . Territorial circular economy strategy

Project support & industry stimulation

MONITORING & CONTROL

FUNCTIONALIZED TEXTILES

HEALTH MONITORING &
DIAGNOSTICS

CAMOUFLAGE

THERMO INTELLIGENCE

CONNECTIVITY

INNOVATIVE INTERFACES

ENERGY

PROTECTION

MOBILITY ASSSITANCE

Textiles for protection against



Fire
Abrasion
Electricity
Microbes
Insects
Odors
Liquids
Impacts
Tearing
Perforations
Radioactivity
Gas & particles
Chemicals
Extreme temperatures

Focus

Defense



PME Tour DGA: the cluster organised, in partnership with the DGA (French Directorate General of Armaments) an event on the theme of extreme conditions with the participation of industrial prime contractors , the French ministry of armaments and industry and manufacturers in the sector.



Optitex incubator: a workshop dedicated to the emergence and incubation of concepts for defense and civil security sectors has been set up. It is the fruit of collaboration between TECHTERA and MINALOGIC (digital sector) clusters. to encourage the emergence of cross-disciplinary and cross-technology projects.



Centurion program: Techtera supports the French Directorate General of Armaments in setting up a multi-year project dedicated to innovations in flexible protection for combatants. *Proof of concepts currently under study.*

Security



A+A trade show: Techtera supports its members at the textile industry's leading trade show dedicated to protection, safety and health in the workplace. The event offers a comprehensive overview of processes and new materials for PPE and defense.



Cybersecurity diagnosis: As part of the EDIH Minasmart project, a turnkey solution for assessing, analyzing and remedying IT vulnerabilities of SMEs has been developed.

Some projets involving Techtera

| Defense

| Security / Protection

- **ARMETISS** Develop a set of smart clothes and equipment integrating complementary functions based on EU end-users' needs and textile-based advanced technologies.
- **PTBE** Develop a low-emissivity tent wall.
- **SOBLAST** Design a modular anti-blast and bulletproof protection solution.
- **PROPTITEX** Develop textile fibers to create fabrics capable of changing color locally in a controlled manner.
- **ISL Porcher** Characterize and model the multiscale mechanical behavior of a fabric subjected to ballistic impact.
- **EU-ALLIANCE** Support the internationalisation of European SMEs in technical textiles, connectivity, advanced technologies and advanced materials.
- **FOMOF** Functionalize military and civilian absorbent membranes by integrating MOFs (Metal Organic Frameworks).
- **BIO-SUSHY** Replace perfluorinated products (PFAS).
- **CODETEX** Design a mobile primary decontamination facility for fire suits and equipment.
- **ETINCELS** Provide textile solutions embedding sensors that will allow to answer to thermal-related stress situations encountered by security professionals.
- **MIROIR** Design semi-industrial solutions for the metallisation of innovative, resistant, flexible materials; for luxury and personal protection.

Some key partners



French Directorate General of
Armaments



Innovation Defense
Agency



European
Defense Agency



French Cluster serving
SMEs in defense,
security, and safety

Markets & applications

FIREMEN

- Thermal protections



ARMY

- Camouflage clothing
Smart clothing



POLICEMEN

- Ballistic protections



PILOTS IN EXTREME
CONDITIONS

- Airbags



- Racing suits



OPERATORS IN
CONSTRAINED
ENVIRONMENTS

- Masks



- Gloves



- Sensors



DECONTAMINATORS

- CBRN protections
HAZMAT suits



RESCUE
MOUNTAINEERS

- Straps - Ropes





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Techtera is supported by :

