



ANNUAL REPORT 2020

**CATALAN CLUSTER OF
ADVANCED TEXTILE MATERIALS**

AEi
Tèxtils.cat



ANNUAL REPORT

2020

textils.cat

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THE PRESIDENT AND CLUSTER MANAGER WORDS



Unfortunately, only with the ongoing health crisis the value of advanced textile materials arise.

To protect firefighters, at the operating theatre, in airplanes, in cars, to protect crops, to isolate buildings, to manufacture hot-air balloons, to hold loads, to protect from the sun or to filter. These are advanced textile materials, where functionality is more important than aesthetics. They are everywhere and they are being manufactured in Catalonia.

This is the opening of the news article prepared by the cluster in the midst of the health crisis. The goal was to highlight the value of advanced textile materials for society and to stress the pride of AEI TÈXTILS to its members, companies and organizations, that adapted and lived up to the conditions demonstrating their engagement to respond to the needs of the health sector.

2020 was the year of the pandemic and the subsequent global economic crisis affecting all the companies of the sector. Notwithstanding, their persistent efforts during recent years in terms of research, development and innovation have allowed them to stay ahead and generate new opportunities.

In this sense, the number of new projects initiated by the members, with the support of the cluster, in this period is astonishing and has increased their involvement with the entity.

This has led to an increase in the activity of AEI TÈXTILS, which has grown its team, once again, to respond to the new needs of its members.

Moreover, the cluster has started three strategic projects covering the three key areas of support for clusters from the European Commission:

excellence, with the leadership of CLAMTEX project, **new value chains**, with the leadership of GALACTICA project and **internationalization**, with the participation in TEXGLOBAL project.

These projects will provide the cluster with new tools to support the companies of the sector in the green transition and digital transformation, two strategies to consolidate a more resilient and competitive industry.

AEI TÈXTILS invites all companies in the sector to join the cluster family to discover new opportunities for collaboration, generate new knowledge, apply new creative tools, start new business lines or increase their international visibility, among others. In short, to find a new space to learn and share with other stakeholders in the sector.

Sergi Artigas, President

Ariadna Detrell, Cluster Manager

December 2020

ADVANCED TEXTILE MATERIALS

Advanced textile materials respond to high technical-qualitative demands (mechanical strength, thermal performance, durability, etc.), having the ability to adapt to specific functions and to their environment, whether in traditional sectors (clothing or home textiles), or in specific markets within the technical textiles' sector.



Automotive and passenger transportation



Personal protection



Medical, hygienic and sanitary applications



Civil engineering



Industrial uses



Building and textile architecture



Agriculture and fishing



Sports and leisure



Environmental protection



Technical textiles for clothing



Packaging and goods transport



Technical textiles used at home and public buildings

WHAT IS AEI TÈXTILS?

AEI TÈXTILS is a cluster, with a non-profit association structure, made up of companies in the value chain of the advanced textile materials' sector in Catalonia and other organizations that support innovation.

Its main objectives are to promote R&D&I, especially in cooperation; to encourage, at all levels, cooperation in the Catalan advanced textile materials' sector and to promote the cluster and its members at an international level.



MISSION



To promote innovation with the aim of improving the competitiveness of its members, as well as cooperation, complementarity and communication among them.

VISION



To achieve a critical mass of innovative companies and organizations in the region to facilitate the innovating practices which allow the improvement of their competitiveness and international renown.

STRATEGIC OBJECTIVES



To promote innovation in a wide sense, improving the abilities of its member companies and combining them by means of horizontal or multidisciplinary collaborations.

Commercial worldwide presence by means of promotion and internationalization.

To support the improvement of management and productivity of companies to generate added value and to face up the current environment.

THE TEAM



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BOARD OF DIRECTORS



SERGI ARTIGAS

Leitat Technological
Center

PRESIDENT



RAIMON SELLARÈS

Marina Textil, S.L.

BOARD MEMBER



RICARD CIMA

Gremi Tèxtil de
Terrassa

SECRETARY



JOAN PERA

Manufacturas Arpe, S.L.

BOARD MEMBER



PAULÍ ALUART

C.P. Aluart, S.L.

BOARD MEMBER



JAIME CABRÉ

La Industrial
Algodonera, S.A.
LIASA

BOARD MEMBER



MARC PONSÀ

Polisilk, S.A.

BOARD MEMBER

MEMBERS

Founding, supporting and associated organizations

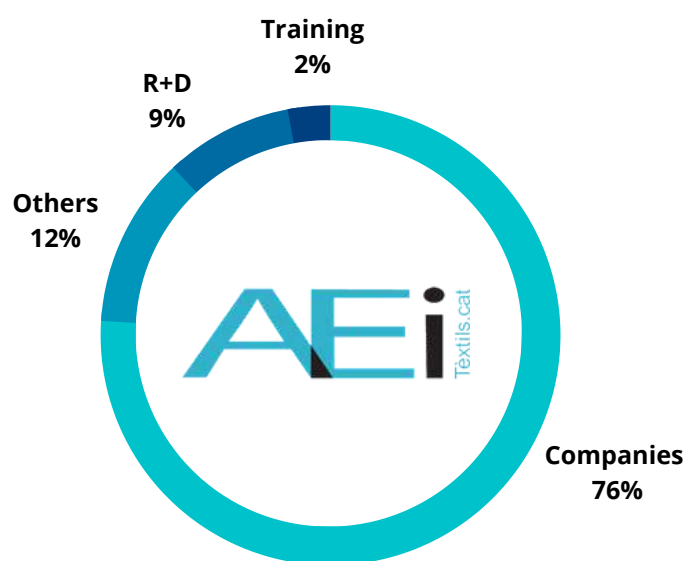


Companies

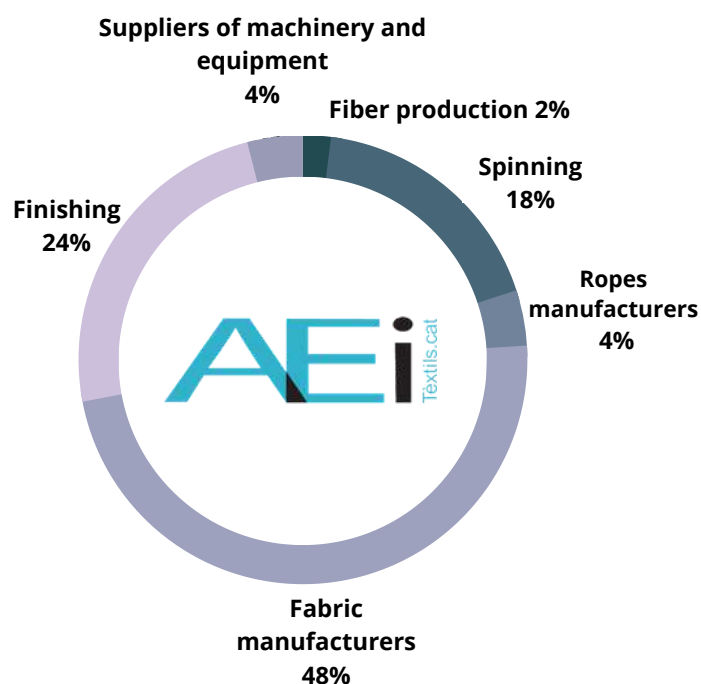


MEMBERS

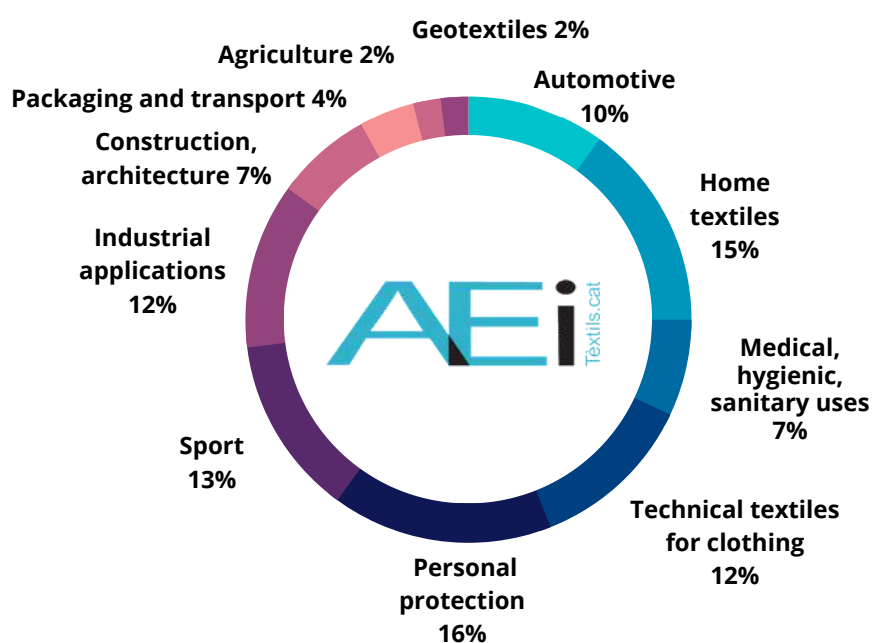
Category of the members



Activity of the companies



Application sectors



SERVICES

WHAT DO WE OFFER TO OUR MEMBERS?



Free access to reports and studies of the sector produced by AEI TÈXTILS on materials and technologies.



Free participation in regular networking meetings among members and networking sessions organized with other organizations.



Free access to the calendar of events in the sector (conferences and trade fairs related to the different applications of advanced textile materials).



Reduced rates for technical and commercial consultancy services, specialized in advanced textile materials (elaboration of market studies, etc.).



Support in the preparation of proposals and participation in European consortia. Support during the whole project execution.

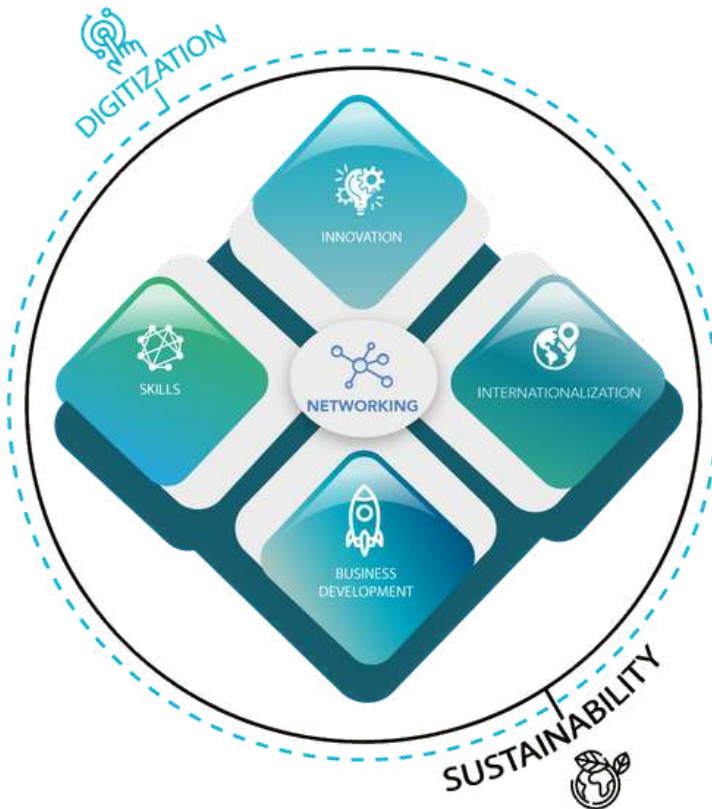


Direct access to similar European advanced textile materials' clusters to search for suppliers, partners, etc. Access to the EU-TEXTILE2030 database.



Organization of training on specific sectorial technologies.

STRATEGIC LINES



INNOVATION

Promoting cooperation among its members, increasing the uptake of innovation support initiatives; promoting the participation of the Catalan advanced textile materials' sector in technological cooperation with European projects and increasing their productivity in the territory by promoting the implementation of new technologies and the development of new products and processes.

INTERNATIONALIZATION

Improving access to international markets; improving access to knowledge through international R&D, technological and commercial partners and improving access to research and key production infrastructures in third countries.

SKILLS

Capacity building of current employees in the sector and improving the level of qualifications; promoting development and knowledge about career opportunities in the sector and providing unique and specific training on technology and markets in the advanced textile materials' sector.

BUSINESS DEVELOPMENT

Promoting the exchange of best practices among local enterprises; improving the image of the sector in Catalonia; promoting its strengths and capabilities towards other manufacturing sectors of the territory to increase business opportunities globally and strengthening the dialogue between industry, scientific community and public administration.

SUMMARY 2020

5,7 M€

IN PROJECTS
MOBILIZED BY THE
CLUSTER



PROJECTS

We have participated in the implementation of 13 projects (2 national and 11 European) together with other partners: companies, clusters, research centers, etc. We have prepared more than 30 project proposals from members and the cluster itself.

+8.000

HOURS
DEDICATED TO
PROMOTE
INNOVATION



TRAINING

The staff of the cluster is continuously trained to keep abreast of industry trends and to meet the needs of its members.

MEMBERS

We have increased the number of members, expanding the representation of the advanced textile materials' sector in Catalonia.

TEAM

The cluster staff has grown, to provide the team with more efficiency, ambition and management capacity in achieving the cluster's goals.

300 k€

IN FUNDING OF
MEMBERS' PROJECTS
WITH THE CLUSTER
SUPPORT



5

PROFESSIONALS TO
PROVIDE SUPPORT TO
THE CLUSTER MEMBERS



SUMMARY 2020

COLLABORATION WITH

12

EUROPEAN CLUSTERS



NETWORK

We have increased our network of international contacts: clusters from other sectors, companies, research centers, etc. We are active members of the European Economic Interest Grouping EU-TEXTILE2030.

COLLABORATION WITH

38

COUNTRIES



ORGANIZATION OF EVENTS

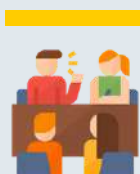
We have organized 15 events with multiple formats: international conferences, seminars, workshops, networking meetings, visits, etc.

PARTICIPATION IN EVENTS

We have attended more than 60 international events of interest for our members related to advanced textile materials: exhibitions, conferences, seminars, etc. contributors of ideas, opportunities and network.

10

PRESENTATIONS AT INTERNATIONAL CONFERENCES



VISIBILITY

We have appeared in several national and international media, with more than 190 press impacts, 600 new followers on LinkedIn and 6,800 unique users on the website.

+190

PRESS IMPACTS



CLUSTER ACTIVITY DURING THE PANDEMIC CAUSED BY COVID-19

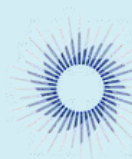
UPC experts explain how face-masks should be

March 27th



LIASA shifts its production to address the ongoing health emergency.

March 31st



LIASA
LA INDUSTRIAL
ALGODONERA

100
AÑOS
1918-2018

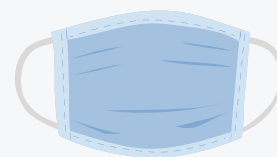
INTEXTER creates the "COVID-19 and textiles" website

April 14th



New project to promote local manufacturing of reusable masks

May 19th



Article from AEI Tèxtils' member MITSA: Coronavirus textile barrier

June 8th



Canal Terrassa talks about the INTEXTER masks project

June 8th



INTEXTER article on protective gowns

June 11th



UPC selects ARPE' face masks for its staff and students

July 1st



CLUSTER ACTIVITY DURING THE PANDEMIC CAUSED BY COVID-19

Interview with the cluster member ARPE: A mask that resists 20 washes

July 27th



The masks from our member ARPE, selected for the exhibition “Emergency! Designs against COVID- 19”

November 18th



Hilaturas Arnau launches the TEXVIR hydroalcoholic disinfectant

September 14th



Tints i Laminats Orient launches a new line of fabrics “CB-20: Antiviric Textiles”

December 21st



ORIENT
Coatings & laminates textile solutions

**The cluster has carried out several activities to support its members
during the crisis caused by COVID-19**

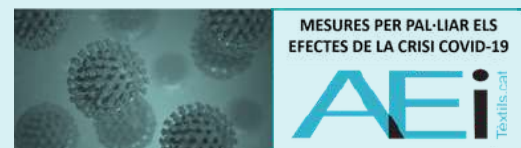
When textile materials are essential....

March 27th



AEI Tèxtils measures to reduce the effects of the COVID-19 crisis

March 30th



The cluster has new reusable masks

September 25th



New video to promote our members’ activities during COVID-19 crisis

July 24th



ORGANIZATION OF EVENTS



Members meeting

Barberà del Vallès, January 14th

Visit to the facilities of the member Marina Textil and lunch.



Visit of the European Commission

Terrassa, February 24th

Visit of representatives of the European Commission to the LIFE-FLAREX project.



CLAMTEX project kick-off meeting

Terrassa, March 3rd and 4th

Kick-off meeting of CLAMTEX project led by the cluster.



Cluster members' meetings

Virtual, April 6th and 22th, May 6th, July 16th, October 6th and November 17th

Regular meetings to promote interaction among members and update them on cluster activities.



Webinar "Sustainable packaging in the textile sector"

Virtual, May 20th

Presentation of sustainable packaging alternatives in the sector and the funding program of the Waste Agency of Catalonia to promote circular economy.

ORGANIZATION OF EVENTS



Webinar "Towards a more sustainable textile industry: case studies for the circular economy"

Virtual, May 28th

Webinar co-organized with ACCIÓ with more than 200 attendees.



Meeting of the Board of Directors and General Assembly

Virtual, June 2nd and 9th

Meeting of the Board of Directors of the cluster and General Assembly.



Final event of LIFE-FLAREX project

Virtual, June 17th

Presentation of LIFE-FLAREX project results and discussion on the implementation of hazardous chemical substitution strategies.



CONTEXT Working Groups' meetings

Virtual, June and July

Moderation of the sessions of the 5 working groups with experts in the field of advanced textile materials.



GALACTICA project kick-off meeting

Virtual, September 28th and 29th

Launch of GALACTICA project, led by the cluster, which will provide 3M€ in financial support for innovation.

PARTICIPATION IN EVENTS



European Commission workshop towards hazardous chemicals substitution

Brussels, January 15th

Participation in the expert workshop on "PFAS and fluorine free alternatives in textiles, upholstery, carpets, leather and apparel".



WINTeX project kick-off meeting

Terrassa, January 16th and 17th

Participation in the kick-off meeting of WINTeX project, led by UPC. The cluster is a partner of the project.



Closing meeting of TEXSTRA project

Guimarães, January 21st and 22nd

Participation in the closing meeting of TEXSTRA project at the University of Minho. The cluster was partner of the project.



Visit to CITEVE and CENTI

Vila Nova de Famalição, January 22nd

Guided tour to Portugal's leading technology centers CITEVE and CENTI, to strengthen collaborations and to generate opportunities for the cluster members.



CONTEXT Management Committee meeting

Ljubljana, January 29th and 30th

Participation in the annual meeting of the CONTEXT Management Committee, a network led by the cluster.



PARTICIPATION IN EVENTS



EU-TEXTILE2030 EEIG Steering Committee meetings

Virtual, February 7th, May 20th, September 2nd, October 19th and December 4th

Participation in the meetings of the European Economic Interest Group, where the cluster holds the Secretary.



Presentation of the "Recircula Challenge 2020" contest

Terrassa, February 10th

Presentation of the cluster initiatives in circular economy and sustainability.



Kick-off meeting of the European Cluster Strategic Partnerships for Excellence

Brussels, February 18th

Participation on behalf of CLAMTEX project.



Roundtable "Greening the Textile Sector"

Brussels, February 25th

Participation in the roundtable organized by FleishmanHillard.



Follow-up meetings of DESTEX project

Virtual, February 27th, April 23th, May 26th, June 22nd, September 23rd, November 5th and December 17th

Participation in the meetings of DESTEX project, led by University of Borås. The cluster is a partner of the project.

PARTICIPATION IN EVENTS



Conference "Strategies of textile circularity in Catalonia"

Barcelona, March 9th

Presentation of PACTEX and ECODISTEX projects, led by the cluster, at the session organized by the Waste Agency of Catalonia.



Roundtable "Advanced textile materials"

Amman, March 11th

Presentation "Market trends and business opportunities in the area of advanced textile materials" by the cluster.



Follow-up meetings of CLAMTEX project

Virtual, April 7th, June 30th, August 31st, November 20th and December 21st

Participation in the meetings of CLAMTEX project, led by the cluster.



Follow-up meetings of FOSTEX project

Virtual, April 16th and November 4th

Participation in the meetings of FOSTEX project, led by UPC. The cluster is partner of the project.



Info-day of LIFE program

Virtual, April 30th

Participation in the virtual info-day of LIFE program and participation in virtual meetings with representatives from the European Commission.

PARTICIPATION IN EVENTS



Webinar “Development of barrier masks for the general public”

Virtual, April 6th

Participation in the session organized by the Moroccan technical textiles cluster, C2TM.



Kick-off meeting of INNOSUP-01 projects

Virtual, May 13th and June 10th

Participation on behalf of GALACTICA project, coordinated by the cluster.

COVID-19 Response Forum

Supporting the efforts of industrial clusters to address the challenges posed by the COVID-19 epidemic in Europe.

How to strengthen the European capacities on Advanced Textiles

Virtual, May 15th

Participation in the session organized by the European Clusters Alliance.



Webinar “Masks for Covid-19 protection”

Virtual, May 27th

Participation in the session organized by UPC, dedicated to present materials, regulations and reuse of masks.



Introductory webinar to ClusterXchange

Virtual, July 8th

Participation in the presentation of the ClusterXchange programme, where the exchange management tool that will be used in CLAMTEX was introduced.

PARTICIPATION IN EVENTS



Webinar to present the strategic programs of the ETP Textile

Virtual, July 15th

Participation in the presentation of the strategic programs launched by the Textile ETP .



Webinar "Get PPEs into the market: conformity and regulatory challenges"

Virtual, July 15th

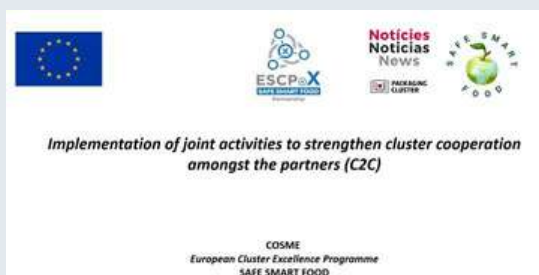
Participation in session on smart textiles focused on personal protection, organized by the SmartX consortium.



Follow-up WINTEX project meetings

Virtual, July 22nd, October 16th, November 11th and 12th

Participation in the meetings of WINTEX project, led by UPC. The cluster is a partner of the project.



C2C meeting of the SAFE SMART FOOD project

Virtual, September 8th

Presentation on how AEI Tèxtils has prepared several proposals in the COSME program.



FOSTEX training sessions

Virtual, September 15th

Training sessions given in the capacity building program organized within the framework of FOSTEX project. The cluster participates as a partner of the project.

PARTICIPATION IN EVENTS



Meeting of ESCP-4x projects with EASME

Virtual, September 15th

Participation in the meeting with EASME about the COVID-19 impact on the ClusterXchange program, which is being implemented in CLAMTEX project.



Dornbirn Global Fiber Congress

Virtual, September 17th and 18th

Participation in the congress, where the cluster is part of its Committee.



GALACTICA project follow-up meetings

Virtual, September 28th and 29th, October 30th, November 27th and December 21st

Participation in the follow-up meetings of GALACTICA project, led by the cluster.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 872336



TEXGLOBAL project kick-off meeting

Virtual, September 30th

Participation in the kick-off meeting of TEXGLOBAL project, led by NTT. The cluster is a partner of the project.



Webinars of the Circular Economy strategic program

Virtual, September 30th, October 22th, November 18th and December 10th

Participation in the webinars organized by the Textile ETP within the Circular Economy strategic program.

PARTICIPATION IN EVENTS



Webinars of the Bio-based fibers strategic program

Virtual, October 1st, November 25th and December 15th

Participation in the webinars organized by the Textile ETP within the Bio-based fibers strategic program.



Webinar "SMEs Go International"

Virtual, October 1st

Participation in the webinar organized by the European Cluster Collaboration Platform with the aim of facilitating the internationalization of European SMEs.



FOSTEX project roundtable

Virtual, October 2nd

Presentation "Market trends and business opportunities in the area of advanced textile materials" by the cluster.



Digitalising Manufacturing Conference 2020

Virtual, October 5th and 6th

Participation in the conference organized by the Manufacturing Technology Center. It brought together leaders in digital technologies and industrial IoT solutions.

3. European Industry and Research Exchange on Technical Textiles for Health, Medical and Sport Application

Session 5: TT Technologies 09. October 2020 from 11h00 to 12h45 CET

- The Sonochemical Coating of Textiles with Antiviral Nanoparticles - Aharon Gedanken, Bar-Ilan University
- Washable Nonwovens versus Washable Wovens and Knitted Fabrics: State of the art and perspectives in infection control - Caglar Sivri, Bahcesehir University
- Review of enapsulation techniques for innovative, sustainable and added value technical textile products for comfort and wellbeing - Amine Haj Taieb, University of Sfax ISAMS
- Smart Textiles for Energy Storage: From Advanced Functional Nanomaterials to High-Performance Textile Supercapacitors - Clara Pereira, University of Porto, REQUIMTE/LAQV, Faculty of Sciences, Chemistry and Biochemistry Department
- 4D textiles: Shape changing textile hybrid structures for medical applications - Hannah Carlotta Koch, Institut für Textiltechnik der RWTH Aachen University

3rd European Industry and Research Exchange

Virtual, October 8th and 9th

Participation in the conferences, co-organized by CONTEXT and EU-TEXTILE2030.

PARTICIPATION IN EVENTS



TCI Global Conference 2020

Virtual, October 14th and 15th

Participation in the annual conference organized by the TCI network, which gathers people and organizations working in the field of clusters and innovation ecosystems worldwide.



Peer Learning webinar

Virtual, October 21th

Participation in the webinar organized by the BLUES project, where the cluster presented CLAMTEX and exchanged experiences.



Roundtable with the S3 authorities of the CLAMTEX project

Virtual, October 22th

The cluster presented the strategy and CLAMTEX project in the virtual round table on the future of S3 policies in the regions involved in the project.



Webinar "European Cluster Capacity Building"

Virtual, October 27th

Participation in the webinar about digitization of cluster activities and services, as part of the training program of the European Cluster Collaboration Platform (ECCP).



European Angel Investment Summit 2020

Virtual, October 28th and 29th

Participation in the event organized by EBAN, where the trends for investment in startups and European Commission funding opportunities for the next framework program were presented.

PARTICIPATION IN EVENTS



CLEANTEX project kick-off meeting

Virtual, November 1st

Participation in the kick-off meeting of CLEANTEX project, led by Kaunas University of Technology. The cluster is a partner of the project.



Webinar "European Circular Economy Stakeholder Platform"

Virtual, November 3rd and 4th

Participation in the European Green Deal presentation conference and the European Commission's opportunities to promote circular economy.



Webinar "Research & Innovation in circular economy and bio-based systems"

Virtual, November 4th

Participation in the webinar organized by the EC, where current and future funding opportunities in the fields of research were presented.



Final conference of ENTeR project

Virtual, November 10th

Participation in the conference aimed at presenting the transition of the European textile sector to the circular economy.



European Cluster Conference 2020

Virtual, November 10th and 11th

Participation in the conference with a virtual stand, attendance at world café and presentation of the GALACTICA project during the European funding session.

PARTICIPATION IN EVENTS



Webinar "Graphene and Textiles – From the Lab to the Market"

Virtual, November 11th

Participation in the webinar where two experts in the field explained the use of graphene to improve the properties of fabrics.



How the European Recovery Fund will be implemented

Virtual, November 12th

Participation in the webinar organized by CECOT.



FACTIVE project kick-off meeting

Virtual, November 13th

Participation in the kick-off meeting of FACTIVE project, led by CITEVE. The cluster participates as a partner of the project.



Partnering Side Event of the Forum of European Cluster Partnerships

Virtual, November 16th

Participation in the event that gathered several European Strategic Cluster Partnerships to establish contacts and share experiences.



Webinar "EXTRATEX" organized in the framework of the SMM2020

Virtual, November 18th

Participation in the webinar on 4.0 Industry opportunities in the textile sector.

PARTICIPATION IN EVENTS



Conference "Ecodesign applied to industry"

Virtual, November 19th

Participation in the conference, organized by the County Council of Bages, Manresa City Council, Bufalvent.cat and Simbiosi.



CE HOSTPOT virtual conference

Virtual, November 19th

Participation in the online conference of the Hotspot Catalonia 2021 event.



Conference "Textile industry and sustainability"

Virtual, November 20th

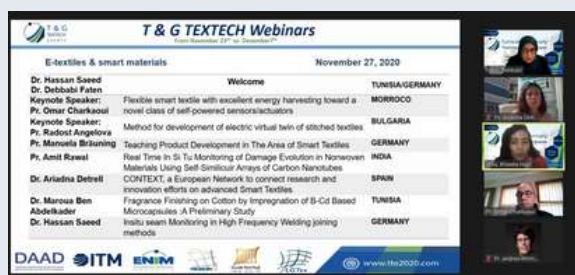
Participation in the 3rd edition of the "Textile Industry and Sustainability" conference, organized annually by INTXTER, member of the cluster.



Webinar "The future of wearable electronics: blending electronics & textiles"

Virtual, November 23rd

Participation in the webinar on the integration of flexible electronics in textiles, organized by SMARTX project.



Conference T&G TEXTTECH

Virtual, November 23rd to December 8th

Webinars on technical textiles. Presentation of the CONTEXT network by the cluster, during the e-textiles & smart materials session.

PARTICIPATION IN EVENTS



Webtalks: Machines and Services Made in Germany for the Technical Textile Industry

Virtual, November 23rd

Participation in the session organized by the Luso-German Chamber of Industry and Commerce and the German Chamber of Commerce of Spain.



Webinar "How to increase the use of secondary raw materials in the Portuguese textile industry"

Virtual, November 27th

Participation at the session organized within the framework of the project 'Closing the loop - from waste to resource - the key to success'.



Triple Helix Summit

Virtual, November 25th

Participation in the session "The triple helix model applied to cluster initiatives to become global" during the Triple Helix Summit.



Baltic Cluster Christmas Forum

Virtual, December 10th

Participation in the webinar about the implementation of the "European Green Deal" and the Digital Transformation, organized by the Lithuanian Innovation Center.



Peer learning webinar

Virtual, December 11th

Participation in the webinar organized by the BLUES project to exchange best practices in the implementation of the ClusterXchange programme.

PARTICIPATION IN EVENTS

Conference Circular Economy for Textiles and Plastics

Conference “Circular Economy for Textiles and Plastics”

Virtual, December 15th and 16th

Participation in the online conference, organized by CENTEXBEL.

El Pla de Doctorats Industrials (DI)

Tecnocampus, 17 de desembre de 2020

Presentation of the Industrial Doctorates Plan

Virtual, December 17th

Participation in the session organized by Tecnocampus.



CLUSTER MEMBERSHIP IN OTHER NETWORKS

The logo for 'context' features the word in a bold, lowercase sans-serif font. The letter 'o' is replaced by a stylized circular icon composed of two overlapping arcs in blue and teal.

Coordination of the European
network of experts in
advanced textile materials
CONTEXT



Adherent member of the
Circular Economy Observatory
of Catalonia



Member of the European
Textile Technology Platform



INSTITUT INDUSTRIAL DE TERRASSA

Member of the Board of
Institut Industrial de Terrassa



Member of the Committee of the
Dornbirn Global Fiber Congress

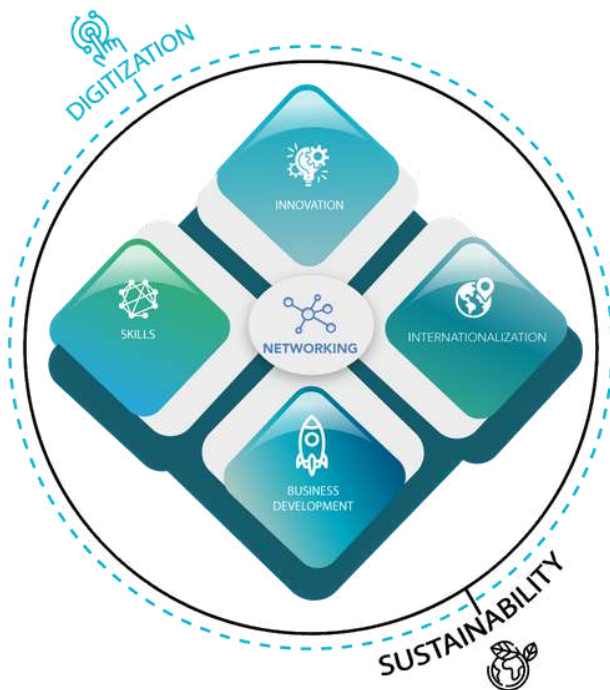


Founding member and Secretary
of the European Economic
Interesting Grouping
EU-TEXTILE 2030

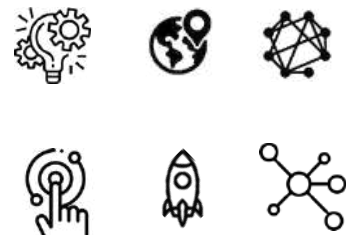
PROJECTS

2020

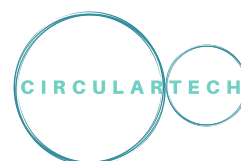
STRATEGIC LINES



STRATEGIC PROJECTS



OTHER PROJECTS



STRATEGIC PROJECTS

led by the cluster in 2020



Coordinator of **GALACTICA – Smart Industrial innovation as enabler to drive new value chains for textiles and aerospace**, co-financed by the Horizon 2020 program (September 2020 - February 2023).

Objective: To facilitate the creation of new industrial value chains around the textile and aerospace industries based on advanced manufacturing.

It will open two calls for grants for companies, one in March 2021 and another in January 2022, with an overall budget of 2.8 million €. Selected projects will also receive support through coaching.



The project will also organize events to facilitate the generation of proposals and collaborations with other sectors involved including cross-sectoral missions to learn about the European aeronautics, aerospace and advanced manufacturing sectors, innovation workshops, webinars and hackathons involving students.

The project will offer travel grants in order to participate in European missions.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 872336

www.galacticaproject.eu

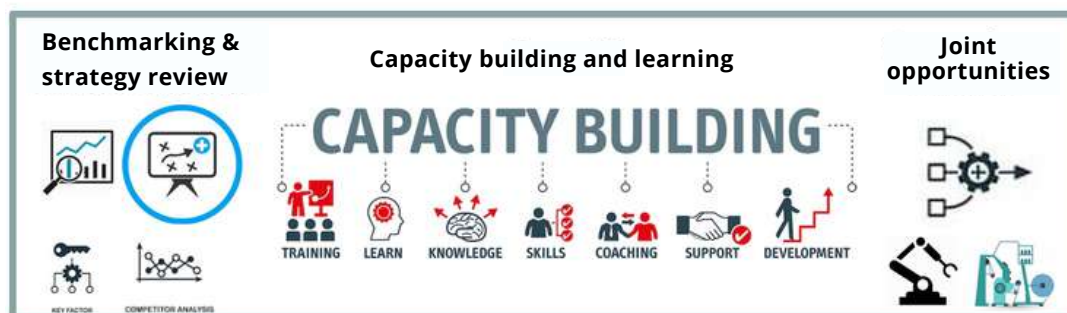
STRATEGIC PROJECTS

led by the cluster in 2020



Coordinator of **CLAMTEX – Cluster management towards excellence in Advanced Manufacturing and Textile Industry**, co-financed by the COSME program (February 2020 - January 2022).

Objective: To strengthen cluster management excellence to boost the specialized technical textiles innovation eco-system by promoting the cross-sectoral and cross-regional collaboration to facilitate the uptake of digitalization within and beyond the partnership.



It includes benchmarking activities and cluster strategy review, an internal training program, and a short-term exchange program (ClusterXChange), open to cluster members with travel grants for 3 to 30-day visits to explore European markets, participating in training and other joint activities organized by the project.

Also, within the CLAMTEX project, sectoral market studies will be prepared to improve the competitiveness of the companies in the clusters involved.



CO-FUNDED BY THE COSME PROGRAMME
OF THE EUROPEAN UNION

www.clamtex.eu

STRATEGIC PROJECTS

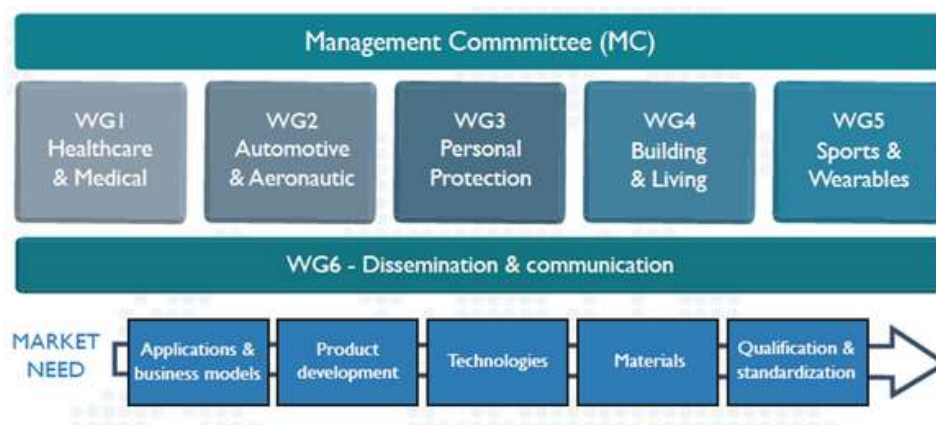
led by the cluster in 2020

context

Coordinator of **Cost Action CONTEXT – European Network to connect research and innovation efforts on advanced Smart Textiles**, co-financed by the COST program (November 2018 - October 2022).

Objective: To join efforts at European level to facilitate the market uptake of new advanced textile materials, reducing the gap between research and industry.

This goal can only be achieved involving all the major stakeholders of the process: universities, technological centers, industry and end-users under the coordination from one of the main tools which contributes to the improvement of competitiveness and productivity of the different economic sectors in the European environment: the clusters.



It is structured in 6 working groups; 5 of them dedicated to different areas of application of advanced textile materials: health/medicine, automotive and aeronautics, personal protection, construction and sports/wearables. The sixth group is dedicated to dissemination and communication tasks.



Funded by the Horizon 2020 Framework Programme of the European Union

www.context-cost.eu

INTERNATIONALIZATION PROJECTS

implemented by the cluster in 2020

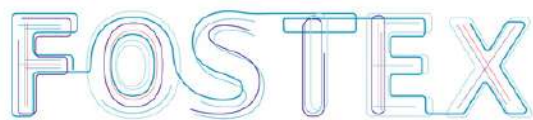


CO-FUNDED BY THE COSME PROGRAMME
OF THE EUROPEAN UNION

Partner of **TEXGLOBAL – European Innovative Textiles Go International: Innovative Global Value Chain Creation And Textile Global Markets Exploration**, co-financed by COSME program – Cluster go International (September 2020 – August 2022).
Coordinated by NTT.

Objective: To support the growth, the competitiveness and industrial modernization of European textile companies by facilitating internationalization and innovation activities.

www.clustercollaboration.eu/content/texglobal



Co-funded by the
Erasmus+ Programme
of the European Union

Partner of **FOSTEX – Fostering innovation in the Jordan and Moroccan textile industry**, co-financed by the Erasmus+ program (January 2019 - January 2022).
Coordinated by Universitat Politècnica de Catalunya.

Objective: To fill the gap in the area of specialized services for the textile sector, with the establishment of four advanced textiles' centers located at the participating universities in Jordan and Morocco.

www.fostexproject.eu



Co-funded by the
Erasmus+ Programme
of the European Union

Partner of **WINTEX – Weaving innovation among academia and industry in the Tunisian textile sector**, co-financed by the Erasmus+ program (January 2020 - December 2022).
Coordinated by Universitat Politècnica de Catalunya.

Objective: To fill the gap in the area of specialized services for the Tunisian textile sector with the establishment of three innovation textile centers located at the participating universities in Tunisia.

www.wintexproject.eu

TRAINING PROJECTS

implemented by the cluster in 2020



Partner of **DESTEX - Industrial and Creative Design in Advanced Textile Manufacturing**, co-financed by the Erasmus+ program (September 2019– April 2022).

Coordinated by University of Borås.

Objective: To promote the uptake of creativity culture as a catalyst to unlock the innovation potential in the advanced textile materials' sector.

www.destexproject.eu



Partner of **FACTIVE - Flipped classroom training Approach for Clothing and Textile Innovative VET Education**, co-financed by the Erasmus+ program (October 2020 - September 2022).

Coordinated by CITEVE.

Objective: To enhance the quality and relevance of the learning offer in textile and clothing VET training by developing an innovative learning approach to improve the level and the assessment of learners' competences and equalize the VET training quality to the modern, creative and innovative needs of the current textile and clothing industry in Europe.

www.factiveproject.eu



Partner of **CLEANTEX - Clean and Innovative Textiles Strategy for Circular Economy**, co-financed by the Erasmus+ program (November 2020 - January 2023).

Coordinated by Kaunas University of Technology.

Objective: To promote the uptake of circular economy and eco-design concepts to improve the skills of students in textile engineering and workers in the sector through cross-sectoral cooperation in HEIs in order to tackle the main pollution problem in textile industry and reach a more sustainable sector.

www.cleantextproject.eu



Partner of **TEXSTRA - Textile Strategy for Innovative Higher Education**, co-financed by the Erasmus+ program (September 2017– February 2020).

Coordinated by INCOTP.

Objective: To promote and contribute to the transferring research and innovation knowledge to students & trainees of the textile/clothing sector via project based learning.

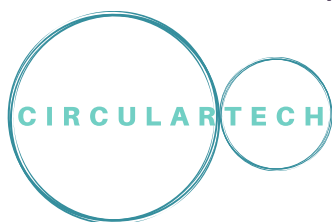
www.texstra.eu



Co-funded by the
Erasmus+ Programme
of the European Union

INNOVATION AND SUSTAINABILITY PROJECTS

implemented by the cluster in 2020



Coordinator of **CIRCULARTeCH – Study for the promotion of the Circular Economy in the technical textiles sector**, co-financed by the Catalan Waste Agency (January 2020 - December 2020).
Collaboration with LEITAT Technology Center.

Objective: To identify specific circular economy opportunities applicable to the technical textiles' sector in order to facilitate its implementation in the companies.

www.textils.cat/circulartech



Coordinator of **SUSTEX – Promotion of the substitution of hazardous chemicals in the textile finishing industry**, co-financed by the Catalan Waste Agency (January 2020 - October 2021).
Collaboration with LEITAT Technology Center.

Objective: To provide tools and knowledge to promote the substitution of hazardous chemical products in the Catalan textile industry.

www.textils.cat/sustex



Coordinator of **LIFE-FLAREX – Mitigation of environmental impact caused by Flame Retardant textile finishing chemicals**, co-financed by the LIFE program of the European Commission (July 2017 – June 2020).

Objective: To carry out an analysis of the environmental impact of alternative Flame Retardants (FRs) in textile finishing processes to promote substitution of halogenated FRs and demonstrate which are the best alternatives that keep the required properties of the fabric.

www.life-flarex.eu

INNOVATION PROJECTS OF ADVANCED TEXTILE MATERIALS

implemented by cluster members with the support of the cluster



Diversification project by Etisilk: development of a business plan to launch a new product (August 2019 - January 2020). SME Instrument of the European Commission.



R&D project by E.CIMA: project in collaboration with the German company ITP GmbH (January 2019 - December 2020). Nuclis Bilaterals d'ACCIÓ.



Smart textile development project by Polisilk (October 2020 - June 2021). SMARTEES Program of the European Commission.



Smart textile development project by Manufacturas Arpe (October 2020 - June 2021). SMARTEES Program of the European Commission.



INNOVATION AND SUSTAINABILITY PROJECTS

implemented by cluster members with the support of the cluster



Manufacture of biodegradable yarns by mixing environmentally friendly materials by Hilaturas Arnau (January 2020 - March 2021). Circular Economy Promotion Program of the Waste Agency of Catalonia.



Design and manufacture of protective fabrics containing recycled fibers from used garments by Technitiger (January 20 - December 21). Circular Economy Promotion Program of the Waste Agency of Catalonia.



Creation of a line of baby products from discarded fabrics and other textile waste by Etisilk (January 20 - March 21). Circular Economy Promotion Program of the Waste Agency of Catalonia.



LIASA
LA INDUSTRIAL
ALGODONERA



PLASTICS[®]
PACKAGING



PACKAGING
CLUSTER



Circular economy project by LIASA in collaboration with NGPlastics, member of the Packaging Cluster: New plastic product made from waste from the textile industry. It aims to introduce to the market plastic products made from recovered polypropylene pellets from the textile industry (January 2019 - March 2020). Circular Economy Promotion Program of the Waste Agency of Catalonia.



Generalitat de Catalunya
**Departament de Territori
i Sostenibilitat**



**Agència de
Residus de
Catalunya**

INTERNATIONALIZATION PROJECTS

implemented by cluster members with the support of the cluster



Polisilk's project to open new markets

(October 2019 - March 2020).

INNOWWIDE program of the European Commission.



Hilaturas Arnau project to open new markets

(October 2020 - March 2021).

INNOWWIDE program of the European Commission.



COMMUNICATION

Videos

As part of LIFE-FLAREX project, we produced an animated video summarizing the need of the project and describing its activities in an accessible language for the general public.



We produced a promotional video to highlight examples within the cluster on how our members adapted their production and products to deal with the COVID-19 crisis.



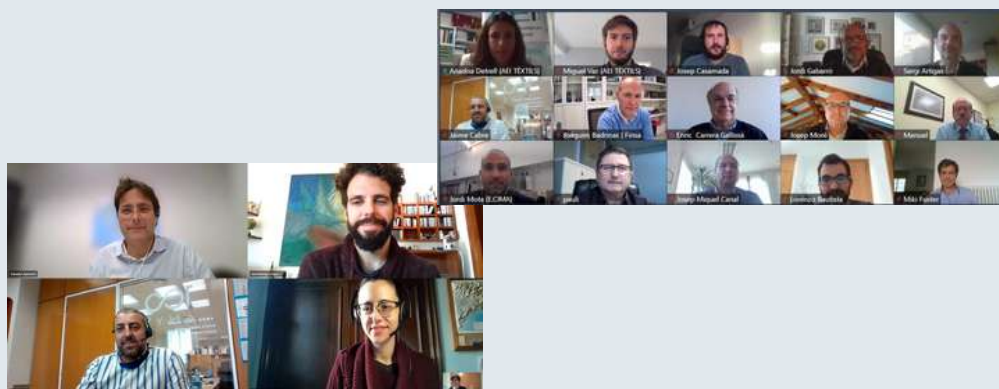
Leaflet



We redesigned the cluster leaflet.

Internal communication

We keep permanent communication with our members, through several channels including virtual and face-to-face meetings.



COMMUNICATION

Social networks



LinkedIn



Telegram



Flickr



Twitter



Youtube

In order to communicate the cluster and the cluster members' activities, we have profiles in the main social and professional networks.

Newsletters



We prepare a monthly newsletter to inform our members about the cluster activities and main events in the sector.

12 newsletters published in 2020.



We collaborate in the edition of the CONTEXT newsletter, including news of the network members.

2 newsletters published in 2020.



We collaborate in the edition of the EU-TEXTILE2030 newsletter, which includes success stories of companies.

1 newsletter published in 2020.

Press releases



We prepare and disseminate press releases at the main national and international media, with news of the cluster and its members.

45 press releases sent in 2020 with more than 190 impacts.

OTHER ACTIVITIES

WE GENERATE KNOWLEDGE

We have published the report
"State-of-the-art on low
environmental impact fibers"



We have collaborated in the
edition of the state-of-the-
art reports of the CONTEXT
network



We collaborated in the project
"Advice for the definition of an
Industry 4.0 Action Plan" of
Terrassa City Council



We encourage our
members to participate in
the European projects of
the cluster



WE INFORM

We offer an information service about tenders at Catalan level
and about funding opportunities at international level

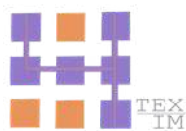
WE GET TRAINED



We participate in the strategic programs of the
European Textile Technology Platform: Circular
Economy and Bio-based fibers

WE CONNECT

We signed a
collaboration
agreement with the
TEX4IM consortium



We contribute to the
maintenance of the
EU-TEXTILE2030
members' database



WE INCREASE VISIBILITY



We have presence at the
European Cluster Collaboration
Platform



textils.cat