



HANDBOOK

of the future of work
best practices



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Project n°101056303 – Advancing industrial digital and green innovations in the advanced textile industry through innovation in learning and training.



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Introduction

This handbook aims to be a reference tool to smooth the adoption process for new cross-sectoral value chains driven by European clusters.

We hope that the present guide might support those who are involved in European projects.

The AddTex project

Advanced textile materials are a thriving sub-sector in the textile and clothing ecosystem across Europe, based on high added value and differentiation as unique selling proposition. Innovation in this field is key in the resilience building of the EU textile sector and in ensuring its competitiveness, particularly in volatile, uncertain, complex and ambiguous (VUCA) environments, such as were presented through the COVID-19 pandemic.

The AddTex project main objective is to **support the resilience and sustainable GREEN, DIGITAL & SMART transition and advancement in the textile sector through innovative learning and training**. In this way, the project aims to strengthen and stimulate a sense of initiative and entrepreneurial attitudes, mindsets and skills in learners, educational staff and skilled workers, in line with the Green Deal and Entrepreneurship Competence Framework. The strength and expertise of established and developing industry clusters will continue to build competencies, support the textile sector growth and present opportunities for impact driven, sector-specific research.

The AddTex partners, coming from 12 European countries, generate an **engagement between industry representatives, higher education (HEI) and vocational education and training (VET) providers**, is an assertive way to achieve the project's goal.

Facilitation of knowledge transfer and exchange throughout the industry ecosystem is vital to sustainable growth and smooth transition. The ADDTEX project will support continued **cluster activities**, engaging academics and researchers in collaborative research to foster **new, innovative and multidisciplinary approaches to teaching and learning**.



Figure 1: AddTex parts and outcomes

The Gap Analysis report can be found [here](#), and the MOOC [here](#).

This handbook gathers all the good practices considered as highly relevant when managing and implementing an EU project of this kind.

- ▶ Detecting the common priorities and needs of the companies and the education sector.
- ▶ Communication and Dissemination activities.
- ▶ Coaching and training activities.
- ▶ Activities to create links between companies and academia.

Glossary

- ➡ **MOOC:** Massive open online course
- ➡ **VET:** Vocational education and training
- ➡ **HEI:** Higher education institution
- ➡ **SCAMPER:** Substitute, Combine, Adapt, Modify (magnify and minify)
- ➡ **SPIN:** Situation, Problem, Implication, and Need-Payoff
- ➡ **HUB:** central platform (online/ physical) that connects multiple organizations
- ➡ **HACKATHON:** A hackathon is an event where people engage in rapid and collaborative engineering over a relatively short period of time in order to solve a problem or identify new opportunities.



2

The project and the consortium

Objectives

When defining the consortium, we had to consider two different sectors: education and industry. An efficient way to have the industry link is thorough the clusters from different countries, because they know the sector and can be in touch with the companies. Education, also, should represent HEIs and VETs. In this way, our consortium could represent an accurate (as much as possible) picture of the sector reality.

Tips and tricks / best practices

- ▶ Diversity: engage stakeholders from different backgrounds, countries, etc. Communication is essential for the project to achieve a good visibility.
- ▶ Diversity will spread the project outputs into different sectors.
- ▶ Project based on different previous projects; the previous knowledge of the partners is useful to create a new project.
- ▶ The project covers different levels of knowledge and different topics inside the textile sector, to be as much closer to the reality as possible.

When preparing a proposal, the guidelines and templates are essential. Have them close and read them carefully.

Support tools

Methodological approach

- ① Define the main objectives of the project.
- ② Select the potential partners and establish contact with them.
- ③ Draft the proposal.
- ④ Polish the proposal with the help of all the partners involved. Their experience will be crucial.
- ⑤ Submit the project proposal.

Warnings

- Preparing a proposal is a time-consuming process. Contact the potential partners well in advance.
- Don't plan a project that is super complicated to execute. Something feasible is more effective.
- Plan enough time for each activity and add buffer time if you consider that it is possible to have delays.

Results

The AddTex Project is a consortium of 12 partners from 10 countries representing different parts of Europe, presenting a balanced geographic coverage and different situations in terms of the advanced textile materials sector.

There is a mixture of institutions with different profiles, capacities and complementary competences including HEIs, VETs, training centres and industry related profiles. Key mobilizers and enablers are clusters, which bring together the triple helix of innovation with industry, research, and public sector.



3

Gap Analysis

Objectives

The main objective of the analysis was to identify the gap between the skills demanded by the advanced textile industry and the educational offerings. The gap analysis identified the most critical skill needs in the advanced textile materials industry, mainly focusing on innovation (materials, processes, products), digital and green transition.

Tips and tricks / best practices

- ▶ Design and identify informal contexts where sharing information (such as Meetups) can make the participants comfortable and involve them in the activities.
- ▶ Different stakeholders should be involved, such as textile companies, VET providers, and HEIs. Different opinions on the problem to be solved can facilitate innovation.
- ▶ Prepare the coordinators/mentors for the field analysis on the topics (through the field research) and the communication techniques to stimulate the debate among the participants. Sharing guidelines and tools among the partners is important to compare the results from different countries and groups easily.

Support tools

- ▶ Gap analysis guidelines
- ▶ Internet sources (databases, websites)
- ▶ Empathy Map Canvas, Trend Canvas

Methodological approach

The gap analysis was designed considering three steps: preparation, implementation and reporting.

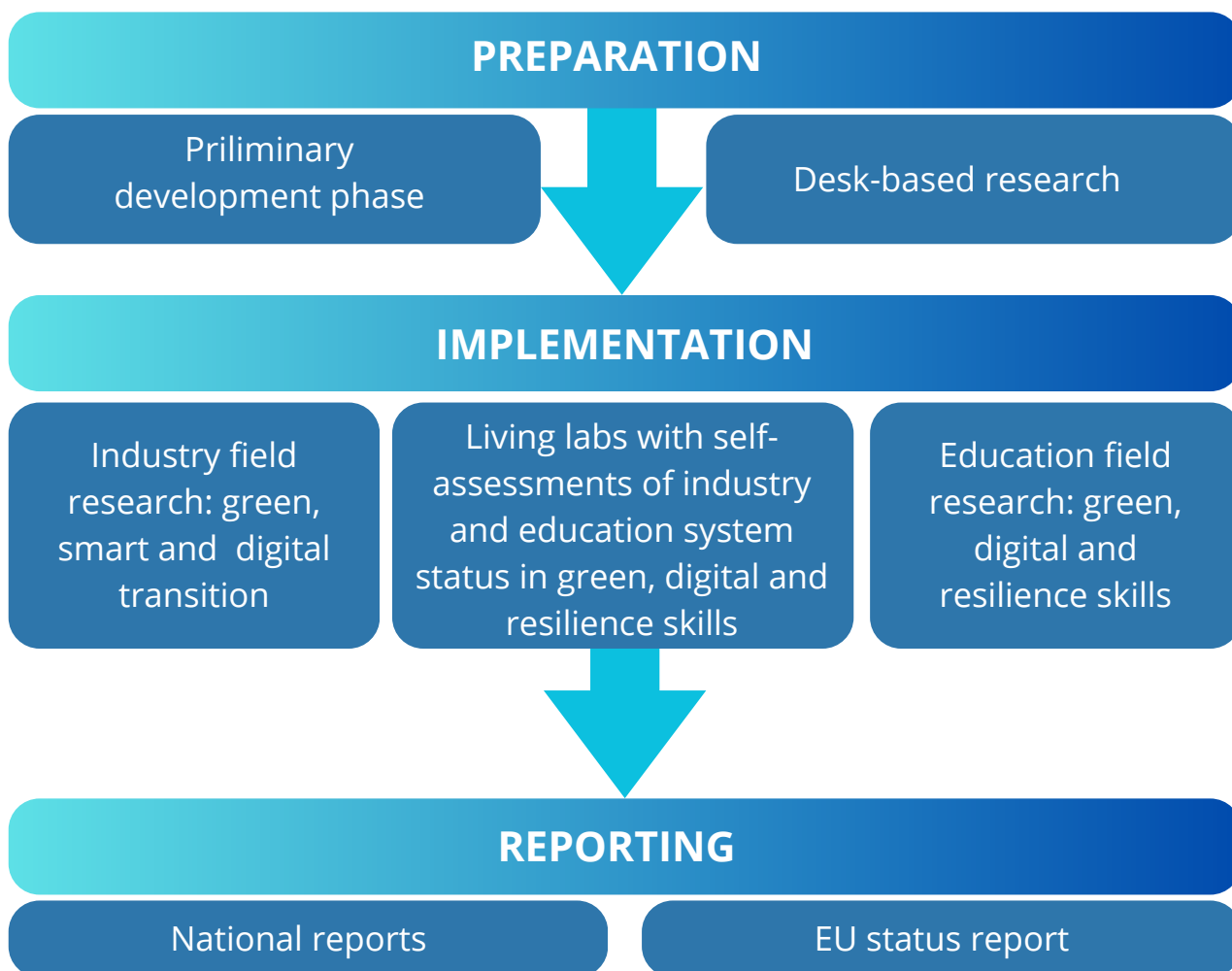


Figure 2: Structure of Gap Analysis

- ① **Setting up the context** without a good organisation may reduce participation, involvement, and the importance of activities.
- ② **Giving feedback on the activities to the participants is essential** to recognise the usefulness of the work done and the contribution made.

Warnings

- ▶ Coordinators must be experts in managing groups and prepared on the textile topics to stimulate brainstorming.
- ▶ Participants must be selected based on the project's goals (innovation in green, digital, and smart transitions) and have a broad experience and vision of the sector.
- ▶ Setting up the context without a good organisation may reduce participation, involvement, and the importance of activities.
- ▶ Giving feedback on the activities to the participants is essential to recognise the usefulness of the work done and the contribution made.

Results

- ▶ The gap analysis involved 272 Textile companies, 47 VETs and 55 HEIs
- ▶ Collaborative sessions:
 - ▶ Meetup: 87 companies, 17 VETs, 18 HEIs
 - ▶ Field research: 94 companies, 15 VETs, 18 HEIs
 - ▶ Living Labs: 91 companies, 15 VETs, 19 HEIs
- ▶ 10 national reports in English
- ▶ 1 EU report in English
- ▶ 1 EU booklet in English



4

Green, digital & Smart skills Academy

Objectives

To offer innovative open virtual training courses contributing to upskilling competencies in the green, digital, and smart transition in the textile industry at different levels.

To offer innovative open virtual training courses that can contribute to fill the gap between formal education and training and the needs of a fast-changing labour market as well as the current challenges in the textile sector for its green and digital transition.

Tips and tricks / best practices

- ▶ Record the video lessons in a professional studio
- ▶ The video lessons have to be presented by the teachers and in a dynamic way (avoid lessons teach by a machine)
- ▶ The video lessons should be short (10-20 minutes maximum)
- ▶ Complement the video lessons with short quizz of multiple response
- ▶ Learning materials adapted to different levels
- ▶ Automatic certificate at the completion of the MOOC

Support tools

- ▶ An e-book to give a general idea of the project and useful guidelines to enroll on the academy and follow the course
- ▶ For each course (green, digital or smart) page with an overview of the course, the curriculum, short bio of the instructors and FAQ's

The steps followed to create the academy are as follows:



Figure 3: Scheme of action steps for creation of the Academy

Warnings

- The preparation of the content of the courses is a very time-consuming process and has to be done by the specialist in the field. Plan well in advance and allocate resources in the proposal.
- The courses have to be attractive to engage the students
- The video lessons have to be short
- The platform has to be user friendly

- ▶ 9 courses developed (3 courses about smart transition for Technicians and Graduates, Engineers and Professionals or Managers and Mentors; 3 courses about digital transition for Technicians and Graduates, Engineers and Professionals or Managers and Mentors and 3 courses about green transition for Technicians and Graduates, Engineers and Professionals or Managers and Mentors)

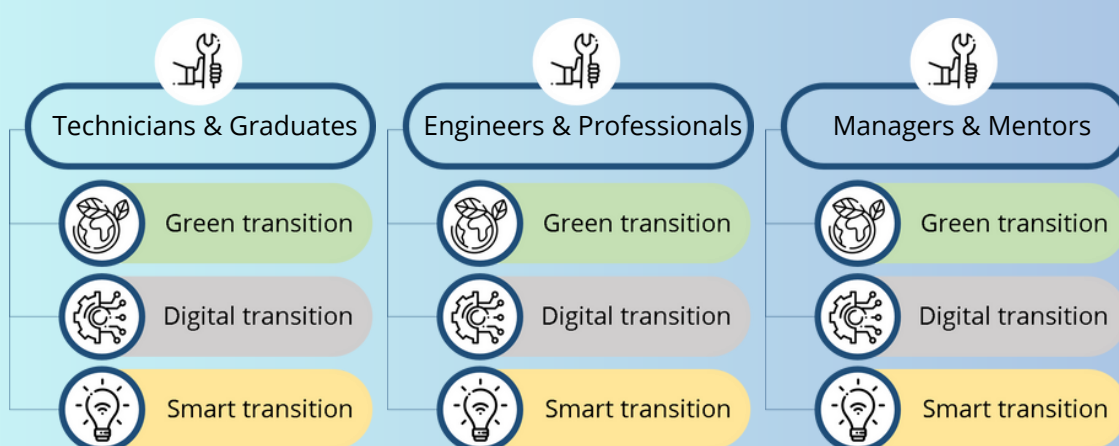


Figure 4: Scheme of developed courses

- ▶ 45 video lessons recorded
- ▶ 9 case studies developed (1 for each course)
- ▶ 54 quizzes (5 quizzes for each lesson plus 1 quiz for each case study)

Up to July 2024 a total of 255 students had registered in the AddTex Virtual Academy MOOC – AddTex, from this total 98 had registered for Smart Transition courses, 68 for Digital Transition courses and 89 for Green Transition Courses.



5

Academia-Industry Collaboration through Design Challenges

Objectives

The sharing of experiences and joint growth between companies and educational institutions is a stimulus for educational development and the creation of long-lasting collaborative strategies. The main objective of the AddTex Hackathons activity was to create collaborative dynamics that bring industry and academia closer together to promote synergies and build bridges of contact that reflect industrial reality, aiming to:

- ▶ Link industry and student's thorough innovation and design, focused on sustainability and digitalisation challenges
- ▶ Promote the discussion and development of innovative solutions
- ▶ Stimulate brainstorming
- ▶ Encourage collective production, integration, and participation.

Tips and tricks / best practices

Tips, tricks and best practices resulting from the 4 AddTex hackathons experience:

- ▶ To a more stimulating experience perform interregional hackathons, with students and companies from different countries, supported by VET/HEI and Clusters.
- ▶ To allow the students contact to a larger number of experts, set up a virtual expert's pool, from all partners countries, in several fields.
- ▶ Development of the hackathon methodology adjusted to the main goals and develop a hackathon guide.
- ▶ challenging event for both the students and the participating companies. The companies gain the possibility the to have some of their challenges debated and explored, and the students have the privileged contact with industrial reality.

Support tools

- ▶ Guidelines to organise the Hackathon. If the event is organised by different partners in different countries, it is interesting to have guidelines to unify the activities as much as possible.
- ▶ Platform to gather international experts to which the students can come in case of doubts during the hackathon.
- ▶ Support tools for the hackathon implementation, such as the 16 personalities dynamic, SCAMPER, SPIN Pitch method, among others.

Methodological approach

The methodology proposed to the AddTex hackathon has 2 mains steps:

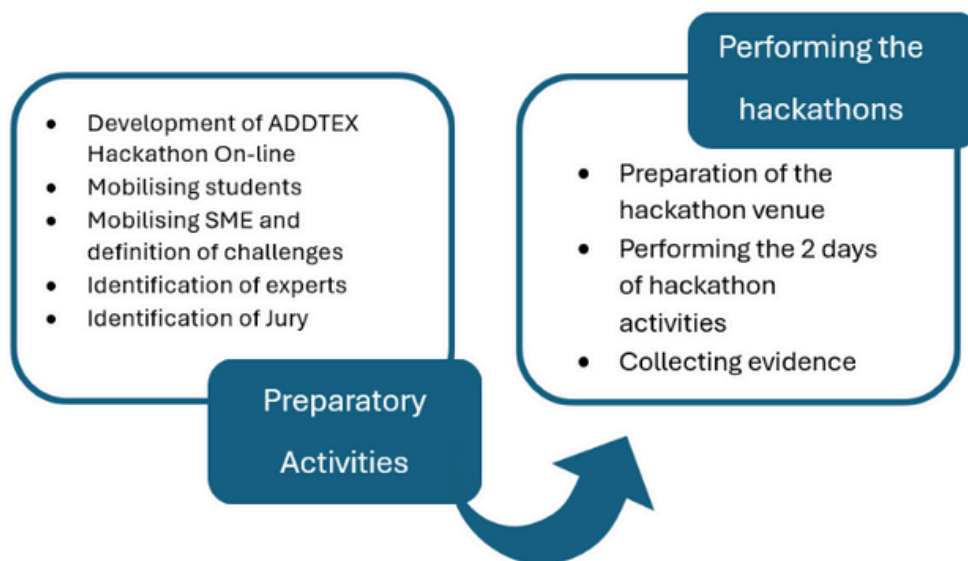


Figure 5: Two steps of the methodology for the hackathon.

The challenges launched at the AddTex hackathons addressed real challenges in the advanced textile manufacturing industry. Students were challenged to respond to industrial challenges using creative and industrial design methodologies. The event host organisation had in-person experts to guide and monitor the overall activity. The teams of students had access to a pool of international experts, online, to provide technical support on the topics being explored by the teams, as well as in transversal topics, like commercial/ marketing, communication or design. The jury was composed by a representative of the company that launched the challenge and a representative of the Cluster and the evaluation was performed based in a pre-defined evaluation grid and rules.

Warnings

- **Defining the program in advance:** to facilitate the implementation of the Hackathon, it is essential to have well-structured guidelines for both the organiser and the participants. 3 stages to consider: developing the guidelines, hackathon preparation and hackathon implementation.
- **Preparing conveniently the hackathon venue:** the venue should be adequate to the number of participants and have the necessary equipment: tables, good internet connection, paper and pens, white board, flipchart, cable extensions, drinks and snacks... **Promoting Academia-Industry collaboration:** in the development of a hackathon activity the involvement of the Clusters and VET/ HEI is essential. The first ones to engage the companies, ensuring the definition of a good challenge. The second ones to engage the students, guaranteeing a good and fruitful participation.

Results

The main results of the AddTex Hackathon activities:

- ▶ Engagement of more than 40 students, from 4 VET/HEI
- ▶ Engagement of 5 companies, from 4 Clusters, proposing 5 challenges
- ▶ 4 teams (13 students) won a 1-week virtual international internships in the companies that launch the challenge to further develop the solution

A background image of a textile factory with rows of large spools of thread hanging from a metal frame. The image is overlaid with a semi-transparent blue filter.

6

Textile Innovation Bootcamp

Objectives

The bootcamp aimed to give a complete learning experience by mixing theory with practical work, focusing on green, digital, and smart technologies in the textile industry. The goals of the bootcamp included:

- ▶ **Enhancing Knowledge:** Participants learned about smart textiles, eco-design, and digital manufacturing through experts-led sessions and company presentations.
- ▶ **Promoting Collaboration:** The bootcamp encouraged group work and networking to help participants share ideas and solve problems.
- ▶ **Fostering Innovation:** Participants received support in creating and testing new concepts, focusing on sustainability and digital technology.
- ▶ **Real-World Application:** The program included hands-on experiences through visits to companies, live demonstrations, and workshops design-thinking inspired.
- ▶ **Skills Development:** Participants gained practical skills in design thinking, prototyping, and pitching their ideas, with feedback to help improve their work.
- ▶ **Cultural and Industry Exposure:** The learning experience was enriched by visits to textile companies and to the textile museum, giving insights into the industry's processes, operations and future trends.

Tips and tricks / best practices

- ▶ Students can work with real physical samples to prepare prototypes
- ▶ Invite companies who present their products and how they work
- ▶ Involve local clusters to increase the network
- ▶ Visits to local companies to learn more about processes
- ▶ Prerequisite for the students to have participated in the virtual training

- ▶ European recognized certification at the end of the summer school
- ▶ Mix students from different backgrounds
- ▶ Choose a place with different options (textile background, companies to visit, etc) close
- ▶ Mix different training methodologies to keep students' attention on

Support tools

Different supporting tools have been used to conduct the bootcamp. In particular:

- ▶ Computer, projector and a flipboard for frontal lessons
- ▶ Office materials including markers, rulers, paper for groups works
- ▶ Sewing machines, yarns, hand sewing needles, different smart materials like light emitting, heating and pressure sensitive textiles
- ▶ Lego bricks to conduct the workshop “LEGO® SERIOUS PLAY® for business models”. Lego bricks can also be used for prototyping purposes

Methodological approach

The bootcamp utilizes a hands-on learning approach, combining theory with practical experience to prepare students for the textile industry. Students are encouraged to work on real-life problems and use smart textiles for different applications (light, heating, pressure sensors) as a starting point for idea development. Emphasising on importance that new products resolve real-life problems is important as it navigates the process. To enhance learning, companies are invited to participate live/online to present their processes and demonstrate real-world applications, bridging the gap between academic knowledge and industry practice.

Participation of experts in the bootcamp is vital since they can help students to develop their idea, prototype and fine-tune the business model.

The program emphasizes diversity and collaboration, culminating in a European-recognized certification that validates their achievements.

Warnings

- ▶ **Taking care of a welcoming environment:** To foster collaboration and teamwork, ice-breaking activities for students who come from different countries and different backgrounds on the first day are beneficial since they promote inclusiveness in a very subtle way, not making anyone uncomfortable.
- ▶ **Mixed groups:** Making sure that groups were made in advance and levelled up. This way we could ensure that no group would be weaker (in the aspect of background study level; PhD, Master, Bachelor) or too unified (e.g. Several participants in the group coming from the same sending institution).
- ▶ **Workshop materials:** Making sure there is enough working materials available (textile materials, smart textile components, sewing machines, office materials etc.)
- ▶ **Group monitoring and engagement:** Make sure to make regular check-ups on each group during the day to resolve any questions regarding the work and help them navigate in the right direction.

Results

- ▶ **5 prototypes:** innovative smart textile solutions
- ▶ **5 pitch presentations** including elements such as the challenge, the market needs, the costumers, the go to market strategy and the business models
- ▶ Students with increased knowledge about smart textiles, eco-design principles and digitalisation in manufacturing



7

The Textile Hubs

Objectives

A hub is a platform where people, companies and institutions can network and establish suitable contacts. It should have a clear vision of how it can support the industry or the sector and promote innovation:

- ▶ To act as a catalyst for the development of an advanced industry, to close the gap between HEI/VET, industry and other relevant partners (quadruple helix).
- ▶ To promote innovation, research and development, and the transfer of good practices.
- ▶ To create more synergies and efficiency between the hub's members through networking and coordination, to establish suitable contacts.
- ▶ To educate and provide coaching and training, to cooperate with HEIs, which promote academic and administrative collaboration and make the knowledge and resource exchange easier, and with VETs which can bundle services such as networking events or counselling.
- ▶ To participate in the creation of international value chains or cross border cooperations.

Tips and tricks / best practices

- ▶ Set clear goals. What exactly should the hub achieve? Define. (e.g. promoting circular economy, digitalising textile processes, introduction of new technologies, etc.)
- ▶ Define the stakeholders. Who are the participating partners and parties who should be involved? These could be companies, startups, research facilities, universities, clusters, NGOs or public institutions.
- ▶ Define the target groups. Define who should profit from the hub. These could be textile companies, designers, professionals or a combination of those.
- ▶ Create networks and cooperations. Connecting with other networks or existing hubs increases the range. Possible partners are research facilities, universities or technological centres.
- ▶ Plan regular events. Event series are recurring opportunities to present new developments, cultivate networks and deepen knowledge.

Best Practices

Hubs play an important role in fostering the digital and green transition in the textile industry. MOOCs also offer a flexible educational platform on which target groups around the world and around the clock can deepen their knowledge of digital technologies such as automation, smart textiles, circular economy and sustainable production processes. Events are important meeting points where the parties involved in the hubs come together to try out and discuss the acquired knowledge.

Support tools

- ▶ A community index / keyword index with different search options and filters helps SMEs to search for qualified partners to discuss new technologies and innovative solutions with
- ▶ A marketplace for products, services and knowledge offered by SMEs makes networking and the presentation of different companies easier
- ▶ Open Education Platform with MOOCs
- ▶ Database of guidelines, good practices and results of projects

Methodological approach

An important part of a hub is the ability to foster collaborations. Hubs are aimed to efficiently exchange knowledge between the parties and to foster the Best Practices.

A hub should be dynamic and flexible, so it can react to new challenges and chances. This means:

- ▶ Open structure: The hub is open to new participants joining the network and adapts to changing market conditions
- ▶ Iterative process: The hub develops itself further constantly by checking and optimising its activities and goals regularly

- ▶ Lean canvas mind map: create a mind map to add a structure and succession of questions.
- ▶ Build a sustainable financing model.
- ▶ Tools like Lean canvas mind map and strategic management tool like The Business Model Canvas, aimed to develop new business models and to document the existing ones.

Warnings

- ▶ A well-working hub must not underestimate leadership and needs clear governance structures: Transparent processes for collaboration and exchange in the hub, so all participants benefit from the same conditions.
- ▶ A clear leadership which defines the alignment and the long-term strategy of the hub.
- ▶ It is difficult to follow set goals without success monitoring. The hub defines measurable goals such as innovation projects, network expansions or sustainability goals and follows these consequently.
- ▶ A visually attractive website that is not updated regularly loses its appeal. Develop an appealing website and use social media to increase the reach and the success of the hub as well as to awaken a high level of interest. Make sure that the hub gets known through media, blogs and industry publications.

Results

- ▶ Companies involved in the AddTex project
- ▶ Different events (conferences, workshops, etc) programmed by the hubs, related to the main topics of the project and directed to the textile companies
- ▶ Visits to the websites of the hubs

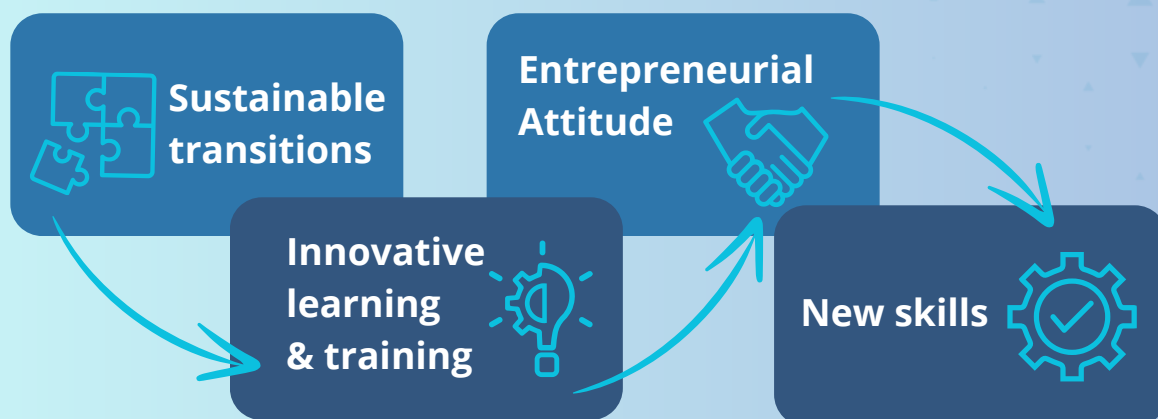
The background of the slide is a photograph of a textile factory, showing rows of large industrial spinning machines. The image is covered with a semi-transparent blue filter. In the upper left, there is a white circle containing the number 8. In the lower right, there is a light blue rounded rectangle containing the word 'Conclusions' in white text.

8

Conclusions

The handbook serves as a reference tool for facilitating the adoption of green, smart, and digital transitions in the textile sector.

The primary objective of the AddTex project is to facilitate sustainable transitions in the textile sector through innovative learning and training, fostering entrepreneurial attitudes and skills in learners, educational staff, and skilled workers.

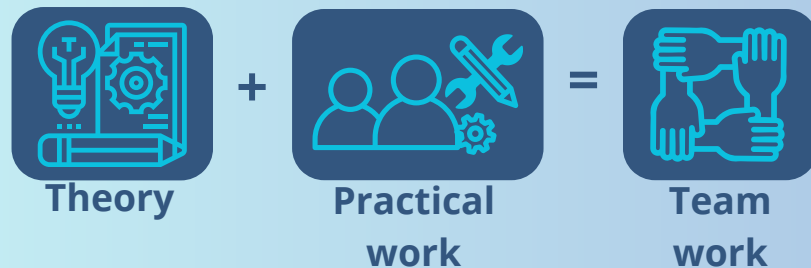


The AddTex consortium, comprising industry and education partners, effectively assessed the gap between the skills demanded by the advanced textile industry and the educational offerings, providing an opportunity to address challenges in innovation, green and digital requirements, and opportunities for textile specific research.



The strengthening of the relationship between companies and educational institutions can foster educational development and collaborative strategies. The AddTex Hackathons activity was designed to create dynamic collaborative threads between industry and academia, promoting synergies and building bridges that reflect industrial reality.

The bootcamp provided a comprehensive learning experience by integrating theory with practical work, focusing on green, digital, and smart technologies in the textile industry. The main objective was to promote inclusiveness and teamwork among participants from diverse backgrounds, encouraging collaboration on new ideas, prototypes, and pitch presentations.



The textile HUB developed within the AddTex project aims to act as a catalyst for the advanced industry's development, bridging the gap between industry and education, promoting innovation, sharing best practices, generating synergies, and participating in the creation of international value chains or cross-border cooperations.

To address the challenges related to green and digital transitions, the AddTex project involved numerous companies in collaborative sessions, developed 9 video courses at different learning levels, tested the courses through student involvement and online tests, organized hackathons and bootcamp events, leading to the development of 5 innovative textile prototypes and intangible results consisting of improved knowledge about sustainable textiles, business, and entrepreneurial skills.



9

Partners

CIAPE

CIAPE is an Italian non-profit cultural association promoting lifelong learning in an innovative and inclusive way. CIAPE holds sound expertise in designing and carrying out training activities aimed at developing and validating soft skills, as well as the competences required in the future labour market. The organization works, on a daily basis, in synergy with more than 300 like-minded entities and organizations from all over Europe and beyond.



- ▶ WEBSITE: <https://www.ciape.it/ciape/>
- ▶ INSTAGRAM: <https://www.instagram.com/ciapeofficial/>
- ▶ LINKEDIN: <https://www.instagram.com/ciapeofficial/>
- ▶ FACEBOOK: <https://www.facebook.com/CIAPE.IT/>
- ▶ X: <https://x.com/CIAPE1>

CITEVE

CITEVE – The Technological Centre for the Textile and Clothing Industry of Portugal, is a private non-profit organization active since 1989 being a reference organization within the national and european scene, regarding research, innovation and technology transfer promotion for the Textile & Clothing Industry.

CITEVE's mission is to support the technical and technological development of the textile & clothing industry, promoting innovation and inducing new capacities and new competences as well as helping on the definition of industrial public policies.



- ▶ WEBSITE: <https://clustertextil.pt/>
- ▶ INSTAGRAM: <https://www.instagram.com/academiaciteve/>
- ▶ YOUTUBE: <https://www.youtube.com/@CITEVE>
- ▶ LINKEDIN: <https://www.linkedin.com/company/cluster-t%C3%AAxtil-tecnologia-e-moda>
- ▶ FACEBOOK: <https://www.facebook.com/CITEVE>
- ▶ X: <https://x.com/PTextilecluster>

CLUTEX

CLUTEX cluster technical textiles has been established on 14th June 2006 in Hejnice after the period of mapping of suitable companies for clusters.

Our mission is to provide services for member companies in the field of preparation of joint projects, joint marketing activities, sharing professional information, sharing contacts and activating new ones inter-cluster/inter-disciplinary activities at national and international level.



► WEBSITE: <https://clutex.cz/>

CRETHIDEV

CRE.THI.DEV. is a Greek non-profit company aiming at community development through research and development of action plans, focused on the local and social economies, mainly on the fields of life-long learning, employment, sports, environmental protection, and local development.

The company establishes close cooperation with local and regional authorities, government authorities and business associations in order to promote innovation, entrepreneurship and sustainable development through research projects and the raising of awareness in local communities towards available development projects.



- WEBSITE: <https://www.crethidev.gr/>
- INSTAGRAM: <https://www.instagram.com/crethidev/>
- LINKEDIN: <https://www.linkedin.com/company/crethidev>
- FACEBOOK: <https://www.facebook.com/crethidev>
- X: <https://x.com/crethidev>

INCDTP

Asserting itself as an active and dynamic operator on the national and European research market, the National Research and Development Institute for Textiles and Leatherworking Bucharest promotes and develops multidisciplinary applied research activities in the field of textiles-garments and leather-shoes-rubber consumer goods, for economic agents in the sector and for other various related fields.



- ▶ WEBSITE: <https://www.incdtp.ro/>
- ▶ FACEBOOK: <https://www.facebook.com/people/INCDTP-Bucuresti/100064446619900>

IVGT

IVGT is Germany's biggest textile association. We are representing the interests of approximately 170 member companies from the sectors of textile raw materials, finishing, yarns and fabrics as well as Technical Textiles.

As an industrial association we contribute with our work in a significant way to maintain and strengthen the general framework for textile production. We support all professional, economic and political concerns of our member companies towards national, European and international institutions.



- ▶ WEBSITE: <https://www.ivgt.de/home.html>
- ▶ YOUTUBE: <https://www.youtube.com/@ivgt>
- ▶ LINKEDIN: <https://www.linkedin.com/company/ivgt/>

PIN

PIN is a non-profit consortium company. Our mission is to present ourselves as a network between the University of Florence and the local economic and political fabric, with the aim of ensuring continuous training for students and managers in order to be able to provide the skills required by the needs of the world of work, to use innovative tools to create new perspectives, give life to research, build relationships.



- ▶ WEBSITE: <https://www.pin.unifi.it/>
- ▶ INSTAGRAM: <https://www.instagram.com/pinpoloprato/>
- ▶ YOUTUBE: <https://www.youtube.com/c/PinPrato>
- ▶ LINKEDIN: <https://www.linkedin.com/company/pinpoloprato>
- ▶ FACEBOOK: <https://www.facebook.com/PinPoloPrato/>
- ▶ X: <https://x.com/pinpoloprato>

TEXTILS.CAT

TÈXTILS.CAT is a cluster, with a non-profit association structure, formed by companies in the value chain of the advanced textile materials sector in Catalonia and other organizations supporting innovation.

Its main goals are to promote innovation, especially in cooperation; to foster links in the Catalan advanced textile materials sector and to give visibility to the cluster and its members at an international level to boost the green and digital transition.



- ▶ WEBSITE: www.textils.cat
- ▶ INSTAGRAM: <https://www.instagram.com/textils.cat/>
- ▶ LINKEDIN: <https://www.linkedin.com/company/textilscat/>
- ▶ YOUTUBE: www.youtube.com/@textilsCAT
- ▶ X: https://x.com/textils_cat

TITERA

TITERA specializes in smart textiles, offering technical expertise across various applications that meet diverse standards and user needs. Company's unique business model focuses on understanding user experiences, allowing to integrate knowledge into industrial solutions. This positions TITERA to better facilitate the introduction of innovative concepts through workshops and webinars.



- ▶ WEBSITE: <https://www.titera.tech/de/>
- ▶ INSTAGRAM: <https://www.instagram.com/titera.tech/>
- ▶ LINKEDIN: <https://www.linkedin.com/company/titera/>
- ▶ FACEBOOK: <https://www.facebook.com/titerateam/?fref=ts>

TUS

TUS is a multi-campus university spread across six campuses throughout Ireland's Midwest and Midlands region. By providing a healthy supply of high-quality graduates and an additional focal point for growth and innovation, we can help regional development take a big step forward.

Our continuous focus on partnership, innovation and staying agile shows we understand the importance of working with key stakeholders across industry and society. And with more than 15,000 students enrolling in hundreds of courses every year across four counties, our story has only just begun.



- ▶ WEBSITE: <https://ideam.ie/>
- ▶ LINKEDIN: <https://www.linkedin.com/company/ideam-cluster/posts/?feedView=all>
- ▶ X: <https://x.com/IDEAMCluster>

At the University of Borås, learning, knowledge, and innovation of high quality and with significant social relevance take place in a setting that meets the highest international standards of quality. We are well-known internationally for our Swedish School of Textiles and our Swedish School of Library and Information Science. Science Park Borås is also a part of our university; it is a national leader in Sweden when it comes to addressing issues of sustainability and consumption.



- ▶ WEBSITE: <https://www.hb.se/en/>
- ▶ INSTAGRAM: <https://www.instagram.com/hogskolaniboras/>
- ▶ YOUTUBE: <https://www.youtube.com/user/UniversityofBoras>
- ▶ LINKEDIN: <https://www.linkedin.com/school/hogskolan-i-boras/?originalSubdomain=se>
- ▶ FACEBOOK: <https://www.facebook.com/UniversityofBoras>
- ▶ X: <https://x.com/hogskolaniboras>

The Universitat Politècnica de Catalunya - BarcelonaTech (UPC) is a public institution seeking higher education in the fields of engineering, architecture, science and technology, and is one of the leading universities in Europe.

Our mission is to contribute to the construction of a sustainable world, including research, technology transfer, the diffusion of knowledge and the training of professionals in engineering, architecture, science and technology.



- ▶ WEBSITE: <https://www.upc.edu/intexter/ca>
- ▶ INSTAGRAM: https://www.instagram.com/la_upc/
- ▶ LINKEDIN: <https://www.linkedin.com/school/166622/>
- ▶ FACEBOOK: <https://www.facebook.com/universitatUPC>
- ▶ X: https://x.com/la_UPC

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Consortia meetings



Ice breaking activities and a kick-off meeting, 13. 7. 2022, UPC, Spain



2nd consortia meeting, 31. 1. - 1. 2. 2023, CITEVE, Portugal



3rd consortia meeting, 11-12. 7. 2023, IDEAM, Ireland



4th consortia meeting, 30-31. 1. 2024, CRE. THI. DEV, Greece



5th consortia meeting, 3-4. 7. 2024, PIN, Italy

Hackathons



Hackathon at UPC



Hackathon at UB



Hackathon at TUS



Hackathon at PIN

Mobilities



Company visits



Pitch presentations



Lectures



Mobilities in Prato, 1- 5. 7. 2024, Italy



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