

Database of EU Best practices and success experiences

WP1-D1.3: EU Best practices database and success experiences in capacity building: implications for the textile industry

Author Luminita CIOBANU (TUIASI) Contributors Athanase CONTARGYRIS (CEDECS-TCBL) Maya DIMITRIADOU (CRETHIDEV) Monica ARDANUY (UPC) Ariadna DETRELL (AEI Textils)

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info@wintexproject.eu

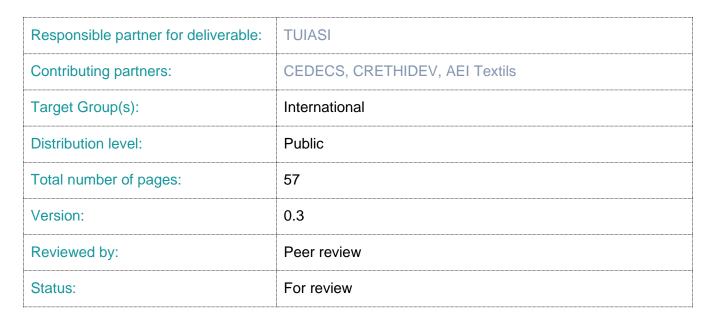
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Version control

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Abbreviations and Acronyms

| Abbreviation/acronym | Full name |
|----------------------|---|
| EACEA | Education, Audiovisual and Culture Executive Agency |
| EC | European Commission |
| EU | European Union |
| GA | Grant Agreement |
| HEI | Higher Education Institution |
| ICT | Information and Communication Technologies |
| PC | Project Coordinator |
| WP | Work Package |
| | |

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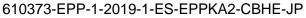
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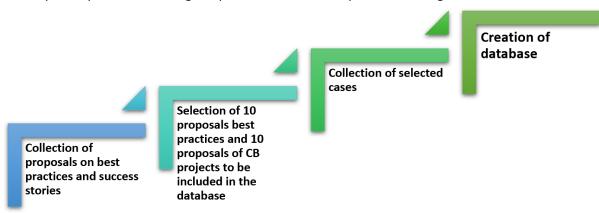
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1. Presentation of the Database

This database is the final result of activity D1.3 that identified and analysed best practices and success stories to be transferred to the Tunisian partners.

The database is organised in two groups, one containing best practices and the other success stories for projects concerning capacity building. Each group has examples for the following three topics:

- Topic 1 Existing innovative textiles' centres or other centres implemented from different sectors.
- Topic 2 Collaboration among universities, BIOs and companies for the sectoral development.
- Topic 3 Innovation and entrepreneurship led by HEIs and business collaboration.



The steps completed in creating the present database are presented in Fig. 1.

Fig. 1. Steps for Deliverable D1.3

After completing all steps for the gathering of initial proposals, selection and collection of selected cases (extended descriptions, according to D1.3 Guidelines), the database was compiled and structured as illustrated below.

The topics are balanced in number for both best practices and other success stories referring to projects concerning capacity building.

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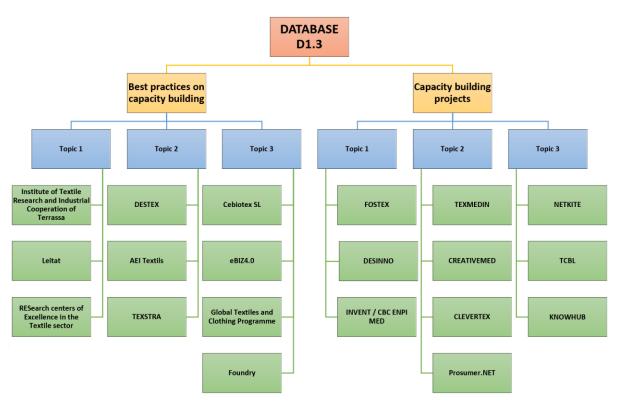


Fig. 2. Structure of the database

For further information, CEDECS-TCBL has included a compilation of useful results, Annexes of CEDECS-TCBL contribution to WINTEX D1.3 - transferable results of previous projects, referring to the following cases:

- ANNEX I: TEXMEDIN INSPIRING LABS
- ANNEX II: The CreativeMED Model for Smart Specialisation
- ANNEX III: DELPHI METHODOLOGY applied in CLEVERTEX project
- ANNEX IV: TRENDS and R&D priorities identified by PROSUMER NET
- ANNEX V: Exploitable TCBL Project's RESOURCES

The Annexes will be available on the WINTEX site.

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2. Database with EU Best practices on capacity building

2.1. Topic 1 – Existing innovative textiles centres

| Best practice | The case of Institute of Textile Research and Industrial Cooperation of Terrassa (INTEXTER) (Universitat Politècnica de Catalunya-UPC) |
|-------------------------------------|--|
| Web site | https://www.upc.edu/intexter/en |
| Funding source (if any) | Local, National, International Projects and contracts with companies and Universitat Politecnica de Catalunya |
| Leader/promoter | Institute of Textile Research and Industrial Cooperation of Terrassa (INTEXTER) (Universitat Politècnica de Catalunya-UPC) |
| Partners (if any) | - |
| Contact data (if available) | https://www.upc.edu/intexter/en/contact |
| | |
| Objectives/ Subjects of interest | The Institut d'Investigació Tèxtil i de Cooperació Industrial de Terrassa (INTEXTER) is an academic unit of the Universitat Politècnica de Catalunya whose main objective is to promote research in the textile and related sector, as well as industrial cooperation by carrying out tests, appraisals, standardization work, homologation and certification. |
| | The Institute participates in R&D projects with local, state and European public funding or in agreement with private companies. |
| | The training of researchers is another objective of the Institute and for this reason is part of the academic direction of the Interdepartmental Doctoral Program in Textile and Paper Engineering, as well as the Doctoral Program in Environmental Engineering, both of the UPC. |
| | The Institute is a member of the Center for Technological Innovation of the UPC (CIT-UPC), is recognized as a TECNIO Development Center of the Agency for Business Competitiveness of the Generalitat de Catalonia and is part of the international Textile Transfer Network (TEXTRANET) |

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| Services offered | Laboratory Textile Mechanical Systems and Processes Laboratory of Textile Polymers Laboratory of Surfactants and Detergency Laboratory Textile Chemistry Technology: Quality Control & Technology Laboratory of Control of Environmental Contamination Laboratory of Environmental Toxicology |
|-----------------------------|--|
| Other useful information | The research team, made up of highly qualified teaching staff, research staff and technical staff, concentrates research and technology transfer (R + D + I) activities and the training of researchers in two main lines of expertise: textile technology and environmental engineering |

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| Best practice | LEITAT Technological Center From dynamism, providing flexible management in an "Open Innovation" approach as collaboration and cooperation driving force for technology transfer. |
|-------------------------------------|--|
| Web site | https://www.leitat.org/english/ |
| Funding source (if any) | |
| Leader/promoter | LEITAT Technological Center |
| Partners (if any) | - |
| Contact data (if available) | Dr. Milena Tzvetkova - <u>milenatz@leitat.org</u> |
| Objectives/ Subjects of interest | LEITAT is a non-profit private technical institute with more than 110 years of experience in industrial innovation processes. It transforms technological and scientific results into economic and competitive value for its clients and collaborating entities. Over 1500 customers benefit from its talent, creativity and strong commitment. It brings knowledge and innovation to its customers through applied research and technical testing in the fields of chemistry, energy, environment, materials, engineering and life sciences. It relies upon it 240 high skilled team members who deliver flexible solutions to face any industrial challenge. |
| Main results/ Services offered | It offers testing as well as research services to industries willing to improve the sustainability of their production processes, define new materials for innovative applications, and develop solutions for attractive growth markets. |

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| | LEITAT is partner for: Sustainability Identification and characterisation of fibre and microplastics Development of environmentally friendly textile fabrics with biomaterials Mitigation of environmental impact caused by textile processes Antimicrobial fabrics with new finishing processes New materials Functionalisation and surface modification for advanced textiles Engineering of nanofiber membranes and filtration systems Coating to improve flame retardancy and antistatic properties 3D textiles and spacer fabrics for new applications Smart textiles Development of smart wearable systems on textiles New technical textiles for sports |
|-----------------------------|---|
| | Integration of medical devices and textiles Characterisation and testing Materials behaviour: physical, mechanical, thermal, chemical and microbiological characterisation Application of new technologies including polymer extrusion, AM and 3D printing, and plasma Analytical chemistry such as analysis of wastewater, nanoparticles, biodegradability, elements, polymers and additives Fire behaviour including tests for protective equipment against heat and flame EU-Ecolabel: test and verification of environmental criteria |
| Other useful information | |

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| Best practice | RESearchcenters of Excellence in the Textile sector, acronym RESET |
|-------------------------------------|---|
| Web site | https://www.interregeurope.eu/RESET/ |
| Funding source (if any) | Interreg Europe project |
| Leader/promoter | Municipality of Prato (Italy) |
| Partners (if any) | Textile Research Institute – AITEX (Spain), Technological Centre for Textile and Clothing of Portugal (CITEVE), Huddersfield Textile Center of Excellence (UK), Centre of European Textile Innovation (France), Saxon Textile Research Institute, CLUTEX – cluster technical textiles (Czech Republic), Lodzkie Region (Poland), National Research & Development Institute for Textiles and Leather (Romania) |
| Contact data (if available) | - |
| Objectives/ Subjects of interest | The overall objective of the project is to generate a policy change in the implementation of regional policies and programmes of the Structural Funds related to the strengthening of research, technological development and innovation to assure the sustainability of the T&C sector in the partner regions. It will be achieved through policy learning and capacity building activities on public policies supporting innovative, green and sustainable T&C production and processes. The learning potential embedded in interregional exchange will result in the uptake of new Good Practices and projects by the partner regions enabling to support excellence in R&D, to promote investments by enterprises, to develop innovative skills of T&C stakeholders, and in a deeper integration between research and innovation policies for the sector's sustainability. Sustainability driven research and innovation will concern primarily the production processes and product development and addresses six key themes: Recycling in textile and waste disposal; Water |

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| | consumption and energy saving, sustainable company organisations; New sustainable chemistry, including reduction of chemical substances; Smart textiles and new ways of production; Eco-creativity, natural fibres, short value chains; New materials and new applications |
|-----------------------------------|--|
| Main results/ Services offered | Action plans produced by each region, providing details on how the lessons learnt during the project and from the cooperation with other partners and regions will be exploited in order to improve the policy instrument tackled within that region. It specifies the nature of the actions to be implemented, their timeframe, the players involved, occurring costs and potential funding sources. Handbook of good practices, (download at <u>https://www.interregeurope.eu/reset/library/</u>) is a collection of good practices related to the 6 key themes. A list of conditions to be fulfilled by the proposed good practices is given. For each theme, a thematic seminar to discuss proposals from partners was organised. |
| Other useful information | A list of policy instruments is presented for each region (see main page), presenting what programmes can be addressed nationally/regionally for research and innovation projects. The Library of the project is very well organised, all presentations from the 6 good practices seminars can be downloaded. |

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2.2. Topic 2 – Collaboration among universities, BIOs and companies for the sector development

| Best practice | Industrial and creative design in advanced textile manufacturing - DESTEX - | |
|----------------------|---|--|
| - | Ongoing project (01/09/2019-30/04/2022) | |
| | [Process of conduct of "Project handbook of good practices & open | |
| | challenges: training tools and methodologies to foster creative and industrial | |
| | design in advanced textiles' manufacturing sector] | |
| Web site | http://destexproject.eu/ | |
| Funding source (if | Co-funded by the Erasmus+ programme of the European Union | |
| any) | , | |
| Leader/promoter | Hoegskolan I Boras (Sweden) | |
| Partners (if any) | 1. Associacio Agrupacio d'Empreses Innovadores Textils (Spain) | |
| | 2. Creative Thinking Development (Greece) | |
| | 3. CIAPE – Centro Italiano per l'Appredimento Permanente (Italy) | |
| | 4. Material Connexion Italia SRL (Italy) | |
| | 5. Escuela Superior de Diseño y Moda, S.L. (Spain) | |
| | 6. Politecnico di Milano (Italy) | |
| | 7. Designkolden Kolding (Denmark) | |
| Contact data (if | Contact form: <u>http://destexproject.eu/contact/</u> | |
| available) | | |
| | | |
| Objectives/ | In the textile sector, there is a gap between fashion and non-fashion textile. | |
| Subjects of interest | This gap is created by the thinking that design in the textile sector is usually | |
| | associated with fashion. However, industrial design and creative thinking | |
| | offer many opportunities for developing new products and services in more | |
| | specialized textile sectors like technical textiles. The use of industrial design | |
| | and creative thinking will foster the tackling of skills gap and mismatch | |
| | between manufacturing industry and industrial design programs which are | |
| | mostly focused on mass-market end-products like fashion whereas there is a | |
| | need for European SMEs to acquire industrial design and creative thinking | |
| | talent to differentiate themselves from external competitors. In order to | |
| | close the gap, the DESTEX project will develop the tools necessary for the | |
| | obtain of its following objectives: | |

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| | -To support higher education students to acquire skills in transdisciplinary innovation based on creative and industrial design applied to the textile |
|------------------|--|
| | sector |
| | - To foster student cooperation in a multidisciplinary approach |
| | - To provide knowledge, skills and competences using virtual collaboration |
| | tools |
| | - To promote the application of good practices for the enhancement of innovative skills; |
| | - To strengthen collaboration between HEIs from industrial design, creative |
| | thinking and textile technology and with advanced materials textile industry |
| | This will be done with the development of a virtual training program, the |
| | creation of a book of lectures, the summer training with students, the |
| | development of a virtual hackathon platform to integrate the needs of |
| | industry (challenges) with design-based solutions. All the learnings will |
| | culminate in the handbook of good practices to transfer the project results |
| | to the industry and the different HEIs |
| | Subjects of interest: |
| | 1. Creativity and culture |
| | 2. New innovative curricula/ educational methods/ development of |
| | training courses |
| | 3. Enterprise, industry and SMEs (incl. entrepreneurship) |
| Main results/ | The project's results, target the delivery of a set of instruments which can be |
| Services offered | used by students in the textile manufacturing sector, and will be formed into |
| | the following instruments: |
| | 1. Designing and developing of a virtual training program into educating |
| | higher education students |
| | 2. Creating a book of lectures |
| | 3. Creation of a virtual platform |
| | 4. "Project handbook of good practices & open challenges: training |
| | tools and methodologies to foster creative and industrial design in advanced textiles' manufacturing sector" |
| | 5. Intensive training summer course |
| <u> </u> | שלא איז איז איז איז איז איז איז איז איז אי |

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| | DESTEX is an ongoing project which started in 2019. Therefore, its results of |
|--------------|---|
| | its outputs are yet to be announced. |
| | |
| Other useful | The virtual training program, alongside the input gathered by information |
| information | from stakeholders and higher educational institutes, will develop a bridge |
| | between industrial manufacturing and creative thinking and design. Such |
| | educational modules, will produce basis for the education of professionals |
| | into adopting new methods and innovation for creative design in the smart |
| | textiles' sector without opting out the wider textile industry. |

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| Best practice | AEI TÈXTILS |
|--------------------------------|---|
| | Contributing to increase the competitiveness of Catalan SMEs in the |
| | advanced textile materials' sector through the cluster. |
| Web site | https://textils.cat |
| Funding source (if | - |
| any) | |
| Leader/promoter | AEI TÈXTILS |
| Partners (if any) | - |
| Contact data (if available) | Cluster Manager: Dr. Ariadna Detrell |
| Objectives/ | AEI TÈXTILS is the Catalan technical textiles' cluster with a non-profit |
| Subjects of interest | association structure. Its mission is to promote innovation with the aim of |
| | improving the competitiveness of its members, as well as cooperation, |
| | complementarity and communication among them. |
| | Its members comprise SMEs of the whole manufacturing chain of technical |
| | textiles, universities, research centres textile trade associations and other kind or organizations related to the field. |
| | It works in 4 strategic lines: Innovation : Promoting cooperation amongst its |
| | members, increasing the taking on level of innovation support initiatives; |
| | promoting the participation of the Catalan technical textiles sector in technological cooperation European projects and increasing their productivity in the territory 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 and technological and |
| | commercial partners and improving access to research and key production |
| | infrastructures in third countries. Skills: Increasing the training of current |
| | employees in the sector and improving the level of qualifications; promoting |
| | development and knowledge of career opportunities in the sector and |
| | providing unique and specific training on technology and market in the |
| | technical textiles sector. Business development: Promoting the exchange of |
| | best practices amongst local enterprises; improving the image of the sector |

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| | in Catalonia; promoting its strengths and capabilities to other manufacturing sectors of the territory to increase globally business opportunities and creating dialogue between industry, scientific community and public administration. It offers several services to its members within these 4 thematic areas. Networking is a common tool for the 4 lines and innovation and digitalization are the transversal drivers. |
|------------------|---|
| Main results/ | The cluster offers several services to its members within these 4 strategic |
| Services offered | lines. |
| | It has been at the service of the advanced textiles' sector for more than ten |
| | years. In the past two years, it has significantly increased its activities thanks |
| | to both the increase in members and their growing engagement with the cluster. |
| | As a result, it highlights the fostering of 12 innovative and strategic projects |
| | from its members, in the last 3 years. It acts as a driver for converting ideas |
| | into projects with the aim that SMEs introduce new services or products to |
| | the market. |
| | Some examples of these strategic projects are: |
| | Development of a game-changer business model integrating the life management of towels in fitness centres and other collectivises using |
| | a circular economy approach for delivering multiple life to the |
| | product and multiple economic valorisations. |
| | Development of smart textiles prototypes. |
| | - Development of an actively cooling textile system based on the |
| | Peltier effect using semiconductor coatings on spacer fabric and |

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| The sector to initiate their innovation projects. These milestones imply a recognition of the innovation capacity of the sector and how a cluster can contribute to increase the competitiveness of its members. |
|---|
| heat dissipation. Furthermore, the cluster is now leading an INNOSUP-01 project, called GALACTICA, which aims to support the creation of new industrial value chains around textile and aerospace sectors based on advanced manufacturing. With this project, the cluster offers a new financing tool to help the SMEs in |
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| Best practice | Textile Strategy for Innovative Higher Education - TEXSTRA |
|-------------------------------------|--|
| Web site | www.texstra.eu |
| Funding source (if any) | Co-funded by the European Union under the ERASMUS+ programme |
| Leader/promoter | Institutul National de Cercetare – Dezvoltare pentru Textile si Pielarie (Romania) |
| Partners (if any) | CIAPE - Centro Italiano per l'Apprendimento Permanente (Italy) Associació Agrupació d'Empreses Innovadores Tèxtils (Spain) Universitatea Tehnica "Gheorghe Asachi" din Iași (Romania) Technological Educational Institute of Piraeus (Greece) Universidade do Minho (Portugal) Kauno Technologijos Universitetas (Lithuania) Institute for Technology Transfer and Innovations (Bulgaria) Material Connexion Italia (Italy) |
| Contact data (if available) | info@texstra.eu |
| Objectives/ Subjects of interest | The "Textile Strategy for Innovative Higher Education" (TEXSTRA) project aim is bringing together the main stakeholders within the textile sector to promote and contribute to the transferring research and innovation knowledge to students & trainees of the textile/clothing Sector via project-based learning, contributing to increase the efficiency and competitiveness of EU textile small and medium enterprises. In this context the TEXSTRA project will develop the tools necessary for skills enhancement, targeted to higher education, in relation to research and innovation, in order to obtain its objectives: To strengthen the knowledge triangle, the cooperation and networking between HEI's, research organizations and private companies in order to reinforce the textile research position in the European context as a potential key in innovation-based development; |

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| | To promote the development of research & innovation-based actions, testing and development of new e-learning tools for students, trainers and professionals; To promote the application of good practices for the enhancement of innovative skills; To provide knowledge, skills and competences by using virtual tools. |
|-----------------------------------|---|
| Main results/ Services offered | Development of a training program and e-learning content Development of online Platform Book of lectures Project Handbook of Good Practices |
| Other useful information | The students from HEIs, the engineers from SMEs, had great opportunities to participate in the event organized by Texstra consortium, such as C1 event, multiplier events, and workshops organized in Romania and Lithuania, and the Virtual Internships. The impact of the C1 activity (Intensive Study Programmes for Higher Education Learners) to the students from UNIWA (5 students), UMINHO (10 students), TUIASI (5 students) and KTU (5 students) was significant, and all courses presented have been appreciated as very innovative. Besides, the activity C2 (Invited teachers at higher education Intensive Study Programmes) involving trainers from INCDTP, CRETHIDEV, and ITTI, was a success. Also, the participating trainers found that the audience was impressive, interested by subjects presented, and appreciated that it was a great chance to transfer the information about innovative technologies, sustainability, and business to students. Also, the e-Learning platform, developed using Microsoft technologies, was for the professors initiated to use the e-Learning platform, especially for professors from TUIASI (Romania), because they are using the platform with the students now in these difficult times generated by COVID-19. Moreover, in almost all multiplier events that have been organized as workshop/brainstorming session to disseminate the intellectual outputs aims and objectives of the project, the participants' number exceeded the expected number (30 participants) for each multiplier event. |

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2.3. Topic **3** – Innovation and entrepreneurship led by HEIs and business collaboration

| Best practice | Cebiotex, S.L. Creation of a Spin-off focused on the path to market of a |
|----------------------|---|
| Dest plactice | medicinal product based on nanofibers for the treatment of adult and |
| | · |
| | paediatric solid tumours |
| Web site | www.cebiotex.com |
| Funding source (if | Founders, Crowdfunding, Venture Capital, Family Offices, Public Grants. |
| any) | |
| Leader/promoter | - Entrepreneur (Mr. Joan Bertran) |
| | - Institute of Textile Research and Industrial Cooperation of Terrassa |
| | (INTEXTER) (Universitat Politècnica de Catalunya-UPC) |
| | - Hospital Sant Joan de Deu de Barcelona (HSJD) |
| Partners (if any) | Founders, UPC, HSJD, Venture Capital, Family Offices, small investors. |
| Contact data (if | CEBIOTEX S.L. Biomedical Nanofibers |
| available) | Barcelona Tech City |
| | Plaça Pau Vila, 1; Block A, 3rd Floor |
| | 08039 Barcelona, Spain |
| | info@cebiotex.com |
| | |
| Objectives/ | Development of the regulatory path required to bring to the market a |
| Subjects of interest | product based on nano fibres for the treatment of Soft Tissue Sarcoma. It |
| | covers a medical need related to a gap of treatment immediately after |
| | resection surgery. The application is for both adult and paediatric and in the |
| | future, it can be replicated in other tumours where local control is relevant. |
| | Cebiotex uses its own production technology, developed together with UPC- |
| | INTEXTER and both, product and technology are protected with different |
| | patents in EU, USA, China and South Korea, among other. |
| Main results/ | So far, the company has successfully achieved all pre-clinical goals (efficacy, |
| Services offered | toxicity, GMP production granted) and has obtained the approval to start |
| | Phase I/IIa clinical trials (CTA). |
| | |

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| | | The product of Cebiotex has been granted with the Orphan Drug Designation |
|-------------|--------|---|
| | | by the European Medicines Agency /EMA), which provides several |
| | | advantages for both the development and exploitation of the product. |
| | | |
| Other | useful | |
| information | | |

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| Best practice | The next step for one digital language in the fashion supply chain – eBIZ4.0 |
|----------------|---|
| Web site | https://ebiz-tcf.eu/ |
| Funding source | COSME |
| Leader | Beyond the individual projects, the eBIZ initiative is leaded by EURATEX with the support of an advisory board to foster its adoption and maintain and improve its contents. |
| Partners | Clave Informatica (Spain) ENEA (Italy) EURATEX (Belgium) Schaeffer Productique (France) Kyklos (Italy) |
| Duration | 2016-2018 |
| Objective/s | In today's complex and fast-changing trade/economic environment the Fashion industry requires efficiency, easy communication and fast time-to- market reaction. Despite lots of initiatives in the fashion industry, standardisation and widespread adoption of a common digital language by companies is still lacking. |
| | eBIZ 4.0 is a new action aiming to digitally connect at least 100 fashion companies across Europe. This action aims to foster its adoption among European industries and software developers and to exploit synergies with the RFID technology. The eBIZ 4.0 solution will enable SMEs to increase the traceability of products, improve the time to market and warehouse management and to reduce data exchange barriers with external providers by shortening the distances along the supply chain. |
| Main results | The Reference Architecture is a technical guiding document supported by on- line resources and a compliance-check tool. The Architecture defines agreed specifications on: Business Models, Business Processes, Data Models, Product Identification and Classification, Communication Protocols. |

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| | It is free and available on line. It is used by IT specialists to create new eBusiness connections or to update those already used by fashion companies. Since June 2013, the Architecture is also an official document (CWA) published by CEN, the European Committee for Standardization (https://ebiz-tcf.eu/wp- content/uploads/2017/09/eBIZ_CWA_Reference_Architecture.pdf). In 2018, after the end of the eBIZ 4.0 project, the new eBIZ 2018 version was released (http://www.ebiz.enea.it/ebiz/imple/pg.asp?p=545). Pilots were implemented in, three different geographical areas (Spain, France and Italy) with different production features and specificities (for instance: in logistic management and access to services) and impacting two different sectors: Textile & Clothing and Footwear (TCF). |
|-----------------------------|--|
| Other useful information | eBIZ is an initiative that was developed in 2 previous phases: 1. eBIZ-TCF project, in January 2008 by the European Commission to boost e- business processes in the Textile & Clothing and Footwear (TCF) Industries (phase I). 2. CEN Workshop eBIZ, was launched in 2012 as standardisation initiative to consolidate, update and promote the use of eBIZ and its Reference Architecture (phase II). (<u>https://ebiz-tcf.euebiz-phase-ii-cen-ebiz-workshop/</u>) As partner, EURATEX has released Notes on all eBIZ Advisory Board meeting (<u>https://ebiz-tcf.eu/governance-participation/</u>). |

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| Best practice | Improving the international competitiveness of the textile and clothing sector (GTEX) |
|-------------------------------------|---|
| Web site | https://www.intracen.org/projects/Global-Textiles-and-Clothing- Programme-GTEX/ |
| Funding source | Government of Switzerland |
| Leader/promoter | International Trade Centre, Switzerland |
| Partners (if any) | Egypt, Jordan, Kyrgyzstan, Morocco, Tajikistan, Tunisia |
| Contact data (if available) | Matthias Knappe – GTEX MENATEX Programme Manager, knappe@intracen.org |
| Objectives/ Subjects of interest | The project aims to stimulate employment and income generation along the value chain for all six priority countries. The first outcome is related to the institutional infrastructure around the sector in the priority countries, including policy aspects, where required. The second outcome targets the enterprise level. The Tunisia project aims developing the sector-specific institutional infrastructure and an improved Trade and Investment Support Institutions (TISI) eco-system, as well as increasing the competitiveness of 50 selected companies in the product categories. The focus is on the clothing sector. The project engages with the Minister of Industry and Small and Medium-sized Enterprises, Ministry of Vocational Training and Employment, as well as the Ministry of Commerce for a sector-wide approach that is linked to the national Textiles and Clothing (T&C) strategy and the country's overall development objectives |
| Main results/ Services offered | At the enterprise level, the Tunisian project targeted companies in the 4 sub- sectors of denim, lingerie/swimwear, protective-wear and the sub-sector of local young designers of clothing brands. It promoted a mentoring approach under which "champions" operating in Tunis and the Sahel region worked |

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| | with small companies in poverty-affected regions such as Gafsa, Kasserine, and Sidi Bouzid. At the institutional level, trade and investment support institutions (TISIs) are assisted to improve their management and operations, as well as an enhanced service offering to their clients. The institutional assessments undertaken for CEPEX (Centre de Promotion des Exportations de la Tunisie), CETTEX (Centre Technique du Textile en Tunisie), FTTH (Fédération tunisienne du textile et de l'habillement), MFCPOLE (pôle de compétitivité Monastir-El Fejja) are the basis for developing institutional improvement roadmaps that the project will help implementing. |
|-----------------------------|---|
| Other useful information | GTEX works together with MENATEX, a project with similar objectives, sponsored by the Sweden, for MENA region. The International Trade Centre site also has a library with different materials on different aspects of trade, including for manufactured goods (https://www.intracen.org/itc/publications/publications-catalogue/) |

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| Best practice | FOUNDRY, powered by IFA - Fashion Tech Innovation Lab |
|-------------------------------------|--|
| Web site | https://www.foundryftlab.com/ |
| Funding source (if any) | - |
| Leader/promoter | IFA, FASHION SCHOOL OF LUXURY AND DESIGN, Paris |
| Partners (if any) | Apart from IFA, the lab is sponsored by Alvanon, BodyMe, IBM, Lectra, nhega, TBFI the Fashion Bridge Incubator, TG3D Studio |
| Contact data (if available) | foundry@ifaparis.com, also presence on Instagram, Facebook and LinkedIn 18 - 24 Quai de la Marne, 75019 Paris, France |
| Objectives/ Subjects of interest | The main objective is to nurture the fashion industry's next generation of innovators by cultivating entrepreneurship and creativity. Foundry Powered by IFA Paris is driving the shift to solve complex industry problems shaping the future of fashion. Their aim to do this is to provide specialist spaces, programs and access to a network of individuals in areas from fashion and tech through to entrepreneurship. |
| | Dedicated to bridging the gap between academia and industry, the company actively works with start-ups, students and organisations to push the boundaries of fashion tech. This unique ecosystem ensures that Foundry is able to empower those that wish to embrace digital transformation. |
| | Foundry is focused on four domains: 1. Design & Product Creation, 2. Sustainability, 3. Supply Chain and 4. Retail. The program runs in English. |
| Main results/ Services offered | The program accepts full-time and part-time residencies. The 6-month incubator is based out of the lab at IFA Paris. The program is aimed at budding entrepreneurs and early-stage start-ups specializing in fashion tech, innovation, sustainability and future craft. To be accepted, the participants in the Fashion Tech Innovation Labs are not required to have a working |

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prototype, but the solution must be viable in 6-12 month of commencing the program. The program contains the following two phases: 1. Discover & Define - Months 1 – 3 focus on identifying industry issues, market gaps, real customer pain points and the potential solutions to solve them. There is a huge emphasis on completing field research as quickly and efficiently as possible in order to find the minimum viable category (MVC) and the potential business opportunity. By the end of month 3 you should be ready to ideate the solution. The co-working space is able to house up to 30 permanent individuals, in addition to flexible roamers. 2. Develop & Deliver and Demo - Months 4 – 6 focus on the initial product release for initial customer feedback and (non)validation to find the best product-market-fit. There is a huge emphasis on working in sprints, working through systematic iterations to eventually reach an MVP ready to deploy for gauging traction. Each start-up will be given negotiated key milestones to hit throughout their 6-month journey, which they will have accountability to their assigned program lead. If the start-up wishes to participate in the demo day, they must hit these milestones. By the end of month 6, start-ups are expected to have a prototype that is ready for market launch. This space is mainly sponsored by the lab's partners, ranging from 3D printers, laser cutters and 3D body scanners to name a few. Inside Foundry's Demo Space start-ups that have successfully created a working prototype will be invited to showcase their solution at a 1-day Demo

Day event held annually. Here, it will be a celebration of achievements so far, but also a chance to network and collate feedback from industry professionals (and even sell to them). There will be the opportunity to pitch to Foundry's investor network with the goal of securing seed funding.

The demo space in partnership with IBM to really showcase what are the possibilities of fashion technology within the fashion industry. The Demo

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| | | Space is where fashion tech masterclasses, events and start-up demo days are held. |
|----------------------|--------|--|
| | | |
| | | |
| | | |
| Other information | useful | |
| mornation | | |
| | | |

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3. Database with EU funded capacity building projects

3.1. Topic 1 - Existing innovative textiles centres

| Project name | Fostering innovation in the Jordan and Moroccan textile industry – FOSTEX |
|----------------|---|
| | Ongoing project (15/01/2019-14/01/2022) |
| ID | 598347-EPP-1-2018-1-ES-EPPKA2-CBHE-JP |
| Web site | http://fostexproject.eu/ |
| Funding source | Erasmus+ |
| Leader | (ES) UPC - Universitat Politecnica de Catalunya- Coordinator |
| Partners | AEI TÈXTILS - The Catalan technical textiles' cluster (Spain) CRE.THI.DEV - Creative Thinking Development (Greece) UNIWA - University of West Attica (Greece) CIAPE - Centro italiano per l'Apprendimento Permanente (Italy) Materially Srl Impresa sociale (Italy) INTDCP - The National Research & Development Institute for Textiles and Leather (Romania) JUST - Jordan University of Science and Technology (Jordan) BAU - Al-Balqa Applied University (Jordan) ESITH - Center for Advanced Textiles (Morocco) ACI - Amman Chamber of Industry (Jordan) UH2C - University Hassan II (Morocco) AMITH - Association marocaine des industries du textile et de l'habillement (Morocco) |
| Duration | 15/01/19 - 14/01/22 (36M) |
| | |
| Objective/s | The main objective of this international initiative is to foster the university- industry collaboration, to support the development of innovation in the textile sector in Morocco and Jordan, and to generate an ecosystem of advanced textile materials. |

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| The upgrading of existing centres in Morocco and the creation of new innovation centres in Jordan will become a valuable ally for the local textile sector and its further development. |
|--|
| FOSTEX project complies with the national Jordan industrial policy for the years 2017 – 2021 that aims to develop competitiveness in the area of production cost, quality, certification, export and innovation, encouraging applied research and technology transfer from universities to industry. |
| Similarly, the Moroccan Government established an industrial acceleration plan for the years 2014 – 2020, in which a dedicated strategic line aims to create different industrial ecosystems to promote an integrated development of the sectors. For the textile sector 6 ecosystems are identified, indicating Technical Textiles as one of them. |
| The initiative aims to achieve the following challenging macro-objectives: develop competitiveness through lowering production costs; increase productivity, quality and design of textile products; train for international conformity certification; enhance local market share and raise confidence in "Made in Jordan" and "Made in Morocco" merchandise marks; develop export to adjacent markets of Jordan and Morocco, and to explore new opportunities to non-traditional markets such as the African markets; develop and explore niche manufacturing opportunities where competitive advantage is not based on price (i.e. specialised products such as advanced / high-end textiles). |
| The initiative aims to set up two advanced textile innovation centres in Jordan and upgrading two textile innovation centres in Morocco, in addition: to promote the centres making them the focal points in the textile industry of each country; to promote entrepreneurial activities in the four centres to make them regional catalysts of innovation; to showcase Fostex results and encourage Moroccan and Jordanian governments to replicate the initiatives in other universities. |

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| Main results | FOSTEX aims to equip the 4 innovation centres with advanced textile testing |
|-----------------------------|---|
| | equipment, enabling to apply standard protocols and methods thus |
| | increasing testing capabilities. |
| | The additional and complementary equipment provided to the centres wil |
| | answer specific needs and create synergies among the centres, maximising |
| | the installed capacities. A detailed list of the equipment will be defined during |
| | the project implementation. Main aim of these innovation centres is to |
| | support companies of the textile sector through providing advanced and |
| | specialised services. |
| | Staff of the participating Moroccan and Jordanian universities will be trained |
| | in an international environment, accessing the European textile centres |
| | involved in the project. In addition, the European partners, as well as the |
| | Amman Chamber of Industry (ACI) in Jordan and the Association Marocaine |
| | des Industries du Textile et de l'Habillement (AMITH) in Morocco, are deeply |
| | involved in the setting up of the centres and in testing their operation. |
| | Besides serving companies of the textile sector, the innovation centres wil |
| | support entrepreneurs who are developing new solutions using advanced |
| | textiles, students involved in start-ups, and other relevant stakeholders in the |
| | two countries. The business models of the centres will ensure the |
| | sustainability of the centres in the two countries beyond the project duration |
| | MOROCCAN CENTRES |
| | FOSTEX project aims to upgrade a textile centre already existing at the Ecole |
| | Supérieure des Industries du Textile et de l'Habillement (ESITH) and to create |
| | a new one at the Université Hassan II de Casablanca (UH2C), both located ir |
| | Casablanca. |
| | JORDANIAN CENTRES |
| | 2 totally new centres will be built up at the Jordan university of science (JUST |
| | and technology located in Irbid and at Al-Balqa applied university (BAU |
| | located in Salt. |
| Other useful | The project also aims to reinforce the link between university research effort |
| Other useful information | and the textile industry to foster innovation and the manufacturing of high |
| mormation | added value products. |
| | The textile sector in Morocco and Jordan consists of companies that have |
| | limited access to services like testing, training, research, studies, technology |

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and financial funding instruments. The involved universities in the two countries aim to develop focal points that bring together enterprises, universities and research centres in advanced textile production. By focusing on knowledge sharing, entrepreneurial skills, socio-cultural factors and innovation potentials, FOSTEX contributes to fulfil the universities' third mission, that is strengthening the 'knowledge triangle' by linking education with research and innovation, stimulating the social and economic development.

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| Project name | Design & Innovation Capacity Building in India – DESINNO |
|----------------|---|
| | Ongoing project (15/11/2018-14/11/2021) |
| ID | 598404-EPP-1-2018-1-IN-EPPKA2-CBHE-JP |
| Web site | https://desinno.org/ |
| Funding source | Erasmus+ |
| Leader | University of the Aegean, Lesbos, Greece |
| Partners | World University of Design, Haryana (India) Brunel University London, London (United Kingdom) Indraprastha Institute of Information Technology (Delhi, India) Creative Thinking Development, Athens (Greece) Politecnico Di Milano (Italy) RIMT University, Punjab (India) |
| Duration | 15/11/18-14/11/21 (36M) |
| Objective/s | DESINNO project aims at establishing innovation capacities in India with the help of improved Design education considering the modern social, economic and business environment. Primarily, this project is set up to contribute to the modernization efforts of the industrial design and creative sectors of India through enhanced quality of educational services and future human resources, that are built on transfer of educational curriculum content and good practices from EU Programme Countries. More specifically, DESINNO project will contribute to the internationalization of the Indian Design Education through the establishment of three Design & |
| | Innovation Centres in universities of India. These centres will provide a common ground for: The development of innovative and permanent methods for |
| | Research and Design approaches. |

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| | The establishment of cross-sectoral projects for collaboration and colearning. The establishment of Inter-industry projects to facilitate the inclusion of design thinking approaches. The development of extreme affordability principles for the benefit of the developing nations while taking care of the accessibility and sustainability aspects of design. The development of community-based programs enabling designers, craftsmen and artisans. The modernization and internationalization of Indian HEIs by improving the university design courses that will encompass product and service design by following state of the art methodologies in design thinking, sustainability, design research, social innovation, ethical issues in design, etc. |
|--------------|---|
| Main results | Specific (concrete) results of the project activities are: Three (3) Design & Innovation Centres (at WUD, RIMT, IIIT) equipped and operational. These centres will also provide links with industrial partners for the setup of joint interventions, will facilitate the setup of sponsor projects, will ease the collaboration between industrial partners and universities for new product development, internships and other activities related to education and research. Each centre will have a design lab with certain equipment and software for new product development and prototyping. Innovative and permanent methods for Research and Design approaches Extreme affordability principles for the benefit of the developing nations while taking care of the accessibility and sustainability aspects of design Infrastructure and methodology for the development of community-based programs enabling designers, craftsmen and artisans Infrastructure and methodology for the cross-sectoral projects for collaboration and co-learning The modernization and internationalization of Indian HEIs by the development of improved university courses that will comply with certain |

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| | content and pedagogical approach, by following state of the art methodologies in design thinking, sustainability, design research, social innovation, etc. |
|--------------------------|--|
| Other useful information | |

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| Project name | Promotion of Innovation Culture in the Higher Education in Jordan - INVENT |
|----------------|---|
| ID | 561996-ЕРР-1- 015-1-ЈО-ЕРРКА2-СВНЕ-ЈР |
| Web site | http://invent.just.edu.jo/Pages/about.aspx |
| Funding source | European Commission (ERASMUS+ CBHE) |
| Leader | Jordan University of Science and Technology |
| Partners | The University of Jordan, UJ (Jordan) Mutah University (MU) (Jordan) Princess Sumaya University for Technology, PSUT (Jordan) Applied Scientific Research Fund, ADRF (Jordan) Hochschule für Technik, Wirtschaft und Kultur Leipzig HTWK Leipzig (Germany) University of Cyprus, UCY (Cyprus) Consorzio ARCA (Italy) Paulo & Beatriz – Consultores Associados, Lda (Portugal) Creative Thinking Development CRE.THI.DEV, (Greece) Almotahida Education Group (Jordan) Amman Chamber of Industry, ACI (Jordan) Al Urdonial Lil Ebda, AULE (Jordan) |
| Duration | 15/10/2015 – 14/10/2018 |
| Objective/s | The development of economic thinking and interest to use innovation by entrepreneurs and business community, The raising of awareness of the innovation importance among the university researchers and the local businesses, The provision of chance to the researchers to apply their research results, The provision of a clear view of the technological needs of the local industries so that the research and researchers' priorities can be well identified, The capacity building for the staff from the Centres for Transfer of Innovation (CTI) in order to enhance the sector of innovation and technology transfer. |

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| Main results | 4 CTIs and two units were established 63 start-ups incubated and supported through funding, training, and incubation services, training courses related to employability skills and entrepreneurship: 90 internship and job fairs 15 Internships and Job placement offered 105 start-up competitions 13 workshops, seminars and invited speaker's sessions UJ >150, secured international funds 2 patents 4 MoUs with the Jordanian (JO) industries >40 A long-term capacity building and staff development plan in the field of innovation and entrepreneurship was developed in order to enhance the skills of JO staff. 16 staff from JO partners' organizations had their 3 phases of training in EU. Sustainability plans and business models: each CTI developed its own business model and sustainability plan, based on the general sustainability plan developed for INVENT. 4 Business models and sustainability plans were developed. |
|-----------------------------|--|
| Other useful information | One of the main achievements of INVENT on the national policy is that, the Ministry of Higher Education and Scientific Research in JO asked all HEIs to include a module on innovation and entrepreneurship in their curricula. Also, it changed the name of the Scientific Research Fund to Scientific Research and Innovation Fund; thus, innovation became a theme for the research fund in JO. Other effect of INVENT results is on the Faculty for Factory (FFF) program. This program aims at connecting faculty members to a factory so that the faculty member solves a problem for the factory. Influenced by the FFF requires now that the solution to any problem be innovative. Moreover, the ACI lunched a special program for industrial innovation to |
| | guarantee the sustainability of INVENT. The objectives of this program |

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| include: linking the industrial sector with the research sector to bridge the gap between the sectors, developing the national industry and increasing its competitiveness through cooperation with researchers working in the academia, maximizing the national product competitiveness advantage by increasing technological component, product development and industrial innovation |
|--|
| All the outputs are linked here: |
| 1) Local market needs in the field of innovation and entrepreneurship, |
| 2) the training needs for officers of CTIs, |
| 3) a report that serves as the road map for the implementation of the project. |
| (Industrial Survey.pdf) |
| 4) Capacity Building Plan (1st training week plan, 2nd training week plan |
| and 3rd training week plan) and staff for training and make trainings(training |
| week Italy-Palermo March 06 -10,2017 for the staff at the CTIs, and |
| consultations with the Jordanian co-beneficiaries. |
| (INVENT training programme v.1.docx.pdf) |
| 5) The center of innovation with appropriate equipment. |
| 6) Website easily and free to reach, database of CTIs and many training and |
| consulting activities. |
| 7) The quality committee, a monitoring, and evaluation, and Quality Plan. |
| 8) Dissemination and exploitation plan, dissemination materials, workshops |
| and info-days, Electronic Town Meeting. |
| 9) Kick-off Meeting and other consortium meeting. |
| |

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| Project name | TEXMEDIN - TEXtile and apparel MEDiterranean heritage for Innovation |
|----------------|--|
| ID | 1G-MED08-482 |
| Web site | http://www.texmedindigitalibrary.eu/ |
| Funding source | INTERREG MED (transnational project co-financed by the European Regional Development Fund (ERDF) in the framework of the European Territorial Cooperation objective by the MED Programme) Priority-Measure 1-1 (Axe 1: Strengthening innovation capacities - Objective 1.1: Dissemination of innovative technologies and knowhow) |
| Leader | Municipality of Prato |
| Partners | Prato Textile Museum (Italy), Hellenic Clothing Industry Association (Greece), Foment of Terrassa (Spain), Documentation Centre and Textile Museum of Terrassa (Spain), Clothing Textile and Fiber Technological Development (CLOTEFI) (Greece), French Institute Textile Clothing (Direction Regionale Rhone-Alpes PACA) (France), Peloponnesian Folklore Foundation (Greece), Carpiformazione (Italy) |
| Duration | 1/4/2009 – 31/12/2011 |
| Objective/s | TEXMEDIN explored how to use cultural heritage to bring attractivity, creativity and innovation to the T&C businesses. TEXMEDIN created for that a transnational CLUSTER of Inspiration Hubs grouping, locally, Local Authorities, Museums, Universities, SME Associations, research centres, SMEs and artists. |

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| Main results | The Inspiring Lab Model presented, at the end of the project, in a document entitled "From Inspiration to Creation: The Inspiring Lab Model for T&A Creatives and Designers", authored by A. Contargyris, CEDECS-TCBL expert on behalf of IFTH and available in pdf on demand. The Inspiration Hubs offered access to young creatives, designers and students to Textile heritage, production know-how and facilities and innovative technologies as inspiration sources for the production of new innovative and environmentally friendly T&C products with high added- value. They offered to University students a first job experience in Textile and Clothing companies. |
|-----------------------------|--|
| Other useful information | A Blue print, delivered by CEDECS-TCBL expert A. Contargyris, as sub- contracted expert of IFTH, at the end of the set-up of the Labs, is explaining the Inspiring Lab Model's concept, structure, organisation and management. It is available as an annex to this contribution (Annex I). |
| | The TEXMEDIN Digital Library linking each item to its cultural, social, historical and environmental information is still available on line at the provided link: http://www.texmedindigitalibrary.eu/. It illustrates the evolution of technology and fashion in a certain period and territory and reveals how an item inspired a designer to create a new product. Information about new and advanced materials that can replace originally used ones and about modern environmentally friendly production technologies, regulations and legislation for consumer protection is also available for a selection of items. |
| | The project was followed some years after by CreativeWear project, terminated in May 2019. In CreativeWear a network of 11 Hubs has been set up for exploring how collaboration between T&C Companies, Creative Artists, Training, Education and Technologic Innovation providers, Social Innovation and Cultural Actors can contribute to T&C companies' innovation and T&C sector development in the differentiated socioeconomic contexts of the MED Regions. This project created ecosystems in which cooperation between artists, HEIs and companies leads to innovative new products of high added value. |

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| Project name | CREATIVEMED - SME Creativity and Innovation for a MED Space Smart Specialisation Framework |
|----------------|---|
| ID | Agreement no 1-CAP-MED12-10 |
| Web site | https://www.programmemed.eu/en/the-projects/project- focus/creativemed.html |
| Funding source | ERDF-MED Programme (capitalisation project co-financed by the European Regional Development Fund -ERDF- in the framework of the European Territorial Cooperation objective by the MED Programme) |
| | Priority-Objective 1-2; Axe 1: Strengthening innovation capacities; Objective 1.2: Strengthening strategic cooperation between economic development actors and public authorities |
| Leader | Municipality of Prato |
| Partners | Consorzio ARCA (Italy) Region of Central Macedonia (Greece) Business Development Agency of Rethymnon Chamber of Commerce and Industry (Greece) Union of Hellenic Chambers of Commerce (Greece) E-Zavod Institute for Comprehensive Development Solutions (Slovenia) University of Valencia (Spain) Chamber of Commerce of Seville (Spain) University of Evora (Portugal) Larnaka District Development Agency (Cyprus) Agency for Sustainable Mediterranean Cities and Territories (AViTeM) (France) Brodarski Institute (Croatia) |
| Duration | 01/07/2013 - 31/12/2014 |
| Objective/s | CreativeMED studied how Mediterranean cultural heritage is a source of innovation in 12 countries across the Mediterranean |

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| Main results | CREATIVEMED produced a White Paper, co-authored by CEDECS-TCBL experts, capitalising the results of the first wave of INTERREG MED projects and defining a Mediterranean Model for Smart Specialisation. Through a triple-loop approach consisting of reacting, reframing and transforming a design or an idea inspired by cultural heritage into new products, the project established indicators, guidelines, white papers and a toolkit. Methodologic outputs include best practices and tools for integrating T&C in Regional R&I Smart Specialisation Strategies, including a benchmarking toolkit and examples of application of methods like Quadruple Helix Approach, Policy Learning, etc |
|-----------------------------|--|
| Other useful information | In this project CEDECS-TCBL was the subcontracted expert of the Business Development Agency of Rethymnon Chamber of Commerce and Industry co- author of the CreativeMED Model for Smart Specialisation. This Model has been used as the reference Model for Smart Specialisation by TALIA project (2017-2019) to guide MED programme projects in the fields of Culture, Social Innovation and Creative Industries and capitalise their results. The White Paper presenting the CreativeMed Model for Smart Specialisation is available in the Annexes of this Contribution (as Annex II). The above results and methods can be used during WINTEX by the Tunisian Universities to explore how the proposed CreativeMed model and toolkit can be transposed in Tunisia, notably for promoting its T&C sector in regional policies. |

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| Project name | CLEVERTEX |
|----------------|---|
| ID | FP6-2003-NMP-TI3-main |
| Web site | https://cordis.europa.eu/project/id/517006/reporting/pl |
| Funding source | SIXTH FRAMEWORK PROGRAMME |
| | 3.4.2.3-4 "Mapping and foresight activities on multifunctional materials-SSA" |
| Leader | IFTH (Institut Francais du Textile Habillement) - FRANCE |
| Partners | CENTEXBEL (Belgium) UGENT (Belgium) ULODZ (Poland) EURATEX (Belgium) SMARTEX (Italy) BONFORT (Belgium) NOTA (Greece) ALCATEL (France) EMT (France) |
| Duration | 01/04/2005 - 31/03/2008 |
| Objective/s | CLEVERTEX aims at developing a master plan and framework for future actions in research, education and technology transfer in the field of multifunctional intelligent textile materials in Europe for transforming the industry into a dynamic, innovative, knowledge-driven competitive and sustainable sector |
| Main results | CLEVERTEX focused on how to transform the traditional T&C industry in Europe into a dynamic, innovative, knowledge-driven, competitive and sustainable sector. It produced a master plan and framework for future actions in research, education and technology transfer in the field of multi- functional intelligent textile materials in Europe. This project was followed by two other projects: |

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| | 1) CA SYSTEX (ICT) on e-textiles and wearable micro systems / electronics |
|-----------------------------|---|
| | 2) EC MICROFLEX to exploit micro fabrication to produce, using custom printing process, active functions cost efficiently. |
| Other useful information | The Gap and Delphi methods used and their results lead to the identification of key areas of development. In Annex III, the Delphi method and its use in the project is detailed. Assistance for its use in WINTEX for WP1 activities has been provided by CEDECS-TCBL. |

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| Project name | PROSUMER.NET - European Consumer Goods Research Initiative - Networking European Technology Platforms addressing Design-based Consumer Goods Industries and Related Research and Technology Fields |
|----------------|---|
| ID | Grant agreement ID: 266970 |
| Web site | https://cordis.europa.eu/project/id/266970 |
| Funding source | FP7-NMP under CSA-CA - Coordination (or networking) actions NMP.2010.4.0-5 - Support to coordination activities of NMP related to |
| | European Technology Platforms |
| Leader | EURATEX (EUROPEAN APPAREL AND TEXTILE CONFEDERATION AISBL) |
| Partners | Consiglio Nazionale Delle Ricerche (Italy) Federation of the European Sporting Goods Industry (Belgium) Inesc Tec - Instituto de Engenhariade Sistemas e Computadores, Tecnologia e Ciencia (Portugal) Forest-Based Sector Technology Platform (Belgium) Deutsche Institute fur Textil- Und Faserforschung Denkendorf (Germany) Instituto Tecnologico del Calzado y Conexas (Spain) Institut Francais du Textile et de l'Habillement (France) Treviso Tecnologia - Azienda Speciale per L'innovazione della Camera di Commercio di Treviso (Italy) Instituto de Biomecanica de Valencia (Spain) |
| Duration | 1/6/2011- 31/5/2013 |
| Objective/s | PROSUMER project worked on major long term social and market trends/drivers (Health of people, safety of workers, sport performance, new cultures and lifestyles, customised fashion products) which will affect all design-based industries (textile, leather, wood,) and has identified some |

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| | common actions and research these sectors may have to undertake in the future to face them. |
|-----------------------------|--|
| Main results | Creation of synergies, identification of common elements, and development of a programme of commonly-defined activities in terms of socio-economic foresight, research & technology road mapping & strategy development between the European Technology Platform for the Future of Textiles and Clothing, the European Footwear Products & Processes Technology Platform, the European Platform for Sport & Innovation, the European Forestry-based Technology Platform, and the ManuFuture Technology Platform. |
| Other useful information | The project explored the long-term consumer trends that will appear over time, thus giving ideas on which trends and technology innovations to focus to develop a competitive advantage. A. Contargyris was involved through CEDECS-TCBL, as sub-contractor of IFTH to conduct a survey and deliver, on May 2012, a Socio-economic Report on Consumer market trends and barriers. |
| | Priority challenges/ trends to address identified included: Rising cost of resources (energy and raw materials), Requests for improved consumer safety, Ageing population, Globalisation challenges, Climate Change. |
| | Priority R&D topics to address them were considered : Design driven functional products and/or Product variety by design, On demand manufacturing and/or Small series production for special needs, Rapid design & fast global market launches, Biobased, renewable materials and/or Multifunctional, high quality materials, Globally networked production & supply chain, creativity & value driven products for the global market, Knowledge management in the value chain and/or Adaptive manufacturing, Virtual prototyping & market testing, Track & trace and improve Product ergonomics. |
| | Three other R&D topics were not considered so important; they are probably more important today: |
| | • Resource efficient, sustainable production (ranked 16th) |
| | Durable & recyclable products (ranked 17th) |

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| • Ecology & safety by design (ranked 19th) |
|--|
| A summary of the findings of this work is provided in annex of this |
| contribution under the title "ANNEX IV: TRENDS and R&D priorities identified |
| by PROSUMER NET" |

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3.3. Topic 3 - Innovation and entrepreneurship led by HEIs and business collaboration

| Project name | NETKITE – Cross-border NETwork to foster Knowledge-intensive business Incubation and TEchnology transfer |
|----------------|---|
| ID | II-B/1.1/0068 |
| Web site | http://www.netkite.eu/ |
| Funding source | ENPI CBC MED Second Call for Standard Projects |
| | Priority 1 – Measure 1 – Support to innovation and research. |
| Leader | Consorzio ARCA (Italy) |
| Partners | CEEI Provence (France) DIOGENES, Business Incubator of the University of Nicosia (Cyprus) Jordan University of Science and Technology (Jordan) Palestine Ahliya University College (Palestine) StartUp System (Tunisia) Academy of Scientific Research and Technology (Egypt) |
| Duration | 01/12/2013 - 31/05/2016 |
| Objective/s | To set up a cross border network, focused on established or new public and private partnerships, inspired by Open Innovation philosophy and using Living Labs approach, meant to support innovation transfer in order to make it functional to the growth and modernization of local economic systems and to the generation of new, qualified and sustainable jobs. |
| | To enhance and improve innovation strategies and to establish an effective transfer process of innovation in the territories concerned, resulting on one side into the generation of spin-off companies in strategic sectors for the local economy, on the other side into pathways for introducing and managing innovation into mature productive sectors, creating new professional positions. |

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| Main results | - more widespread entrepreneurial culture among young graduates and researchers; support to innovation policies within the network and capitalization of methodology and tools towards other networks at the Mediterranean basin level; reinforced collaboration between education and |
|-----------------------------|---|
| | production systems to boost technology transfer; improved access to research infrastructures and facilities for joint university-enterprise R&D projects, through "light" workshops for testing innovation processes, open to several groups of users; methodologies and tools, experimented on a transnational scale, to convey innovative ideas into knowledge-intensive companies; pilot demonstration of the spin-off potential of the academies and R&D centres of the ENPI region; |
| | - improved interconnections between the territories concerned through the identification of a shared team of facilitators able to convey innovation transfer programmes supporting territorial development; coaching & training programmes to develop SMEs management skills within research teams. |
| Other useful information | The framework used to support the project's activities was: |
| | The activities CEDECS-TCBL has led as external expert of DIOGENES (CYP) consisted in selecting 100 students' ideas from North Africa and in scouting the progressive documentation of business plans, feasibility studies and business models for the best of them (through a selection process at each |

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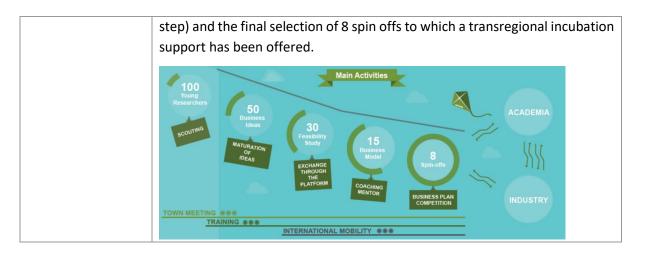
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| Project name | TCBL - Textile and Clothing Business Labs Transformative Business Models for the Textile Clothing Sector |
|----------------|---|
| ID | Grant Agreement (GA) number: 646133 |
| Web site | https://tcbl.eu and/or Cedecs-TCBL.eu |
| Funding source | H2020 NMP Innovation Action NMP-35-2014 - Business models with new supply chains for sustainable customer-driven small series production |
| Leader | Municipality of Prato (Italy) |
| Partners | DITF (Germany) ISMB (Italy), SKILLAWARE SRL (Italy) THE OPEN UNIVERSITY (United Kingdom), IMINDS (Belgium) TAVISTOCK INSTITUTE (United Kingdom) EBETAM AE (Greece) WAAG SOCIETY (Netherlands) HUDDERSFIELD & DISTRICT TEXTILE TRAINING COMPANY LTD (United Kingdom) |

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| | 10. E-ZAVOD (Slovenia), |
|--------------|--|
| | 11. CONSORZIO ARCA (Italy) |
| | 12. UCV EIC (Italy) |
| | 13. HCIA (Greece) |
| | 14. SANJOTEC (Portugal) |
| | 15. CENTEXBEL (Belgium) |
| | 16. IFM (France) |
| | 17. REGINNOVA (Romania) |
| | 18. FAB TEXTILE (Spain) |
| | 19. CLEVIRIA (Italy) |
| | 20. SQETCH (Netherlands) |
| | 21. CCA Ltd (United Kingdom) |
| Duration | 01/07/2015 – 30/06/2019 |
| Objective/s | TCBL aimed to achieve a wide-ranging impact on the T&C industry, in order |
| objective, s | to address some important challenges that the sector is facing: excess off- |
| | shoring, over-production and over-consumption, poor working conditions |
| | with low wages, and environmental impacts resulting from waste, chemicals |
| | usage, high water use, and energy consumption. Against this background, |
| | TCBL set out to offer the sector an alternative vision, experimenting new |
| | business models that base competitive advantage on knowledge more than |
| | price. |
| | |
| | The impact pathway that TCBL defined to bring about such a transformation |
| | crosses three main steps: |
| | Build a business ecosystem as a value-based community of |
| | innovators and businesses willing to explore new business models in a |
| | collaborative effort. |
| | • Carry out focused experimentations in a set of Business Cases to |
| | ignite the business ecosystem and demonstrate the added value of the TCBL |
| | approach. |
| | Demonstrate the contribution towards attaining the project's high- |
| | level targets by 2025: new embedded services, a novel supply network, a 5% |
| | return in manufacturing capacity and a 20% reduction of environmental |
| | |
| | footprint. |

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Main results The collaborative TCBL business ecosystem engaged four kinds of actors -T&C enterprises, innovation labs, service providers, and business advisors through a sequence of yearly calls that has now become a rolling accreditation procedure called the TCBL Protocol. The figure below shows the numbers achieved at project end in June 2019. 30 16 TCBL 52 249 ENTE The construction of the TCBL Business Ecosystem was accompanied by an extensive communication strategy. Social media and video production played an important role, together with a yearly two-day conference with different modes of communication and interaction. Some figures here include: Over 100,000 pageviews on the TCBL website, 1,484 likes on the TCBL • Facebook page and 1,681 followers on the TCBL Instagram account. Over 220 local workshops and seminars in more than 12 EU countries and over 750 conference attendees at the four yearly events in the UK, Greece, Italy and Romania. 185 videos produced and published on the TCBL YouTube channel, 79 Guidebooks on issuu.com and 42 articles in the TCBL_zine, a scientific journal established by the project. Bringing this business ecosystem alive has involved igniting collaboration among Labs, Associates and Service Providers as they join the community. To this end, joint experimental actions were launched around six Business Cases covering themes of importance for the Associates themselves: Natural Fibres, Eco-friendly production, Short Runs, Independents, BioShades and Digital Heritage

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| Other useful information | The results of TCBL project exploited by CEDECS TCBL which could be made available to WINTEX include the following materials on the TCBL Ecosystem, the Innovation projects it developed and the Technologies TCBL offers: |
|-----------------------------|---|
| | 185 videos produced and published on the TCBL YouTube channel, 79 Guidebooks available on issuu.com |
| | 79 Guidebooks available on issud.com |
| | 42 articles in the TCBL_zine, a scientific journal established by the project |
| | In Annex V to this contribution, a detailed list of available materials produced by TCBL project with links to upload them is provided. It includes several TCBL Labs presentations. |
| | TCBL Labs, inspired by the LIVING LABS approach, are Innovation and research spaces to help companies, non-profits, designers, students and citizens develop new sustainable models/solutions /projects through training, services and tools, as well as the publication of research materials. |
| | TCBL Labs can give inspiring examples on how the three innovation textiles' centres which will be set within the framework of WINTEX in the Tunisian Universities partners of the project could qualify to become TCBL Labs and join TCBL network for further collaborations after the end of WINTEX project. |

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| Project name | KNOWHUB - Reconnecting universities and enterprises to unleash regional innovation and entrepreneurial activity |
|----------------|---|
| ID | 610093-ЕРР-1-2019-1-АТ-ЕРРКА2-СВНЕ-ЈР |
| Web site | https://knowhub.eu/ |
| Funding source | ERASMUS + |
| Leader | FH JOANNEUM GESELLSCHAFT MBH (Austria) |
| Partners | Universitat de Girona (Spain) Vaasan Yliopisto (Finland) World University Service-Osterreichisches Komitee Verein (Austria) Zdruzenie Nacionalen Centar Za Razvoj Na Inovacii I Pretpriemacko Ucenje Skopje (FYROM) Javna Ustanova Univerzitet Crne Gore Podgorica (Montenegro) U.E.T. Shpk (Albania) Universitetit Te Vlores (Albania), University of Mostar (Bosnia-Herzegovina) Univerzitet U Sarajevu (Bosnia-Herzegovina) Zaklada Za Inovacijski I Tehnoloski Razvitak (B Bosnia-Herzegovina) |
| Duration | 2019-2022 |
| Objective/s | Analyse and understand the knowledge transfer, innovation and entrepreneurial infrastructure/activities at the target universities in the national ecosystems. Set-up and equip Commercialisation Hubs (one at each target university) that will serve as one-stop-shop for cooperation with enterprises and support of students and academic staff to commercialise their research results and entrepreneurial ideas. Develop capacities of the Commercialisation Hubs, their services and instruments. |

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| | Increase knowledge transfer and joint activities between the target universities and local enterprises through the Commercialisation Hubs. Increase students' (self)employability through practical placement and practice-oriented interdisciplinary trainings covering selected EntreComp Framework's competences. Train academic staff on entrepreneurial education to enable and encourage them to include entrepreneurship in their teaching. |
|--------------------------|--|
| Main results | For each target HEI, the main results are: commercialization Hubs strategies equipment for the Commercialization Hubs job profiles for Hub Officer trainings for developing the capacities for sustainably management of the Commercialization hubs practical trainings on Lean Manufacturing, Rapid Prototyping and Business Development business and Activity plans for Commercialization Hubs portfolios of services for Commercialization Hubs pilot projects. |
| Other useful information | The project considers Rapid Prototyping Technology (RPT) and Lean Manufacturing (LEAN) as essential for engineering training, and this is also important for skills and competences for textile engineering education. They can be transferred toward start-ups and SMEs to sustain the development of products/services, process and organisational innovation. |

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4. Conclusions

The cases presented in the current Database of EU Best practices and success experiences are the result of a selection process among the consortium's members carried out during the D1.3 deliverable. The collection of best practices and success stories regarding capacity building contain examples of research and development

The usefulness for the Tunisian partners of the cases chosen for the Database is given by information concerning the development of innovation capacity through skills, transdisciplinary approach, organization and activities in RDI institutes and clusters. There are examples networking and cooperation (academic, industry, RDI institutes) to promote innovation in the T&C sector, as well as how national policies and strategies affect the sector and how to be improved. Experiences regarding the development and implementation of specific business models, as well as entrepreneurship (including in HEIs) in the T&C sector are also exemplified.

The database also contains example of capacity building projects for the T&C sector that show how this objective was attained for HEIs from other countries (Morocco, Jordan, India) in terms of activities carried out, infrastructure developed and networks created.

All cases demonstrate the importance of T&C higher education and its role in creating an efficient network with the industry to facilitate knowledge and technological transfer and stimulate innovation.

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