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TEX4IM

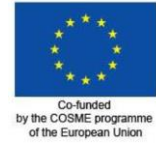
“Textile Clusters for Industrial Modernization”

D3.2 - Portfolio of projects/opportunities in the S3 thematic areas for TC sector, including the monitoring scoreboard

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Prepared by: NTT



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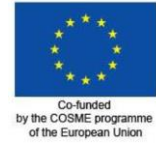
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1. Foreword

The portfolio of project opportunities in this deliverable is based on activities and deliverables in the Tex4IM-project, COSME GA 822083.

At the time of writing this report, 8 textile clusters in Europe of TEX4IM partnership have contributed in developing the Portfolio of project generated by the TEX4IM Incubation and Acceleration system and to compile this report.

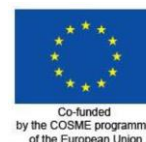
2. Introduction

Tex4Im, the Textile cluster for industrial modernization, is a partnership for textile clusters in Europe with the ambition to strengthen the European Textile and clothing industry. The partnership aims to bring together the most important European textile-based clusters in countries and regions where the textile and clothing industry represents a significant part of the economy. Tex4IM wants to strengthen the innovation capacity, business models, knowledge and competence levels and other important competitive factors. The following strategic thematic areas are prioritized, Circular Economy, Digitalization, E-Commerce and Advanced Materials.

The TEX4IM partnership, being a platform of Textile- Clothing regional clusters, support the industrial modernisation of TC sector by pushing innovation within the enterprises, and more in particular SMEs, by making available to them technological innovation, organization solutions, business and market opportunities, as well as entrepreneurial skills.

This deliverable is at the heart of work package 3 in the COSME project TEX4IM, GA 822083. This deliverable is the final portfolio of collaboration opportunities of the SMEs in partner regions, based on the thematic areas of S3 for TC sector, and account for 24 investment project proposals, with one project in each of the strategic technology areas. The portfolio contain a scoreboard with which the selection of the project proposals was performed.

The work package is closely connected to work package 4 about the provision of technical assistance to selected SMEs.



3. Methodology

This section reports about the methodology followed for the definition of TEX4IM portfolio and for the selection process of investment project ideas.

All the EOIs received from SMEs via the website, thanks to the support provided through, for instance, the matchmaking events, were analysed and evaluated by the project team, using the specific tool previously defined, to facilitate the definition of the investment project proposals forming the portfolio.

EOIs submitted were evaluated according to the following scoreboard:

Selection Criteria	Scores
Quality and ambition of the project idea scope	Up to 40
Expected results of the project idea	Up to 20
Main Tasks envisaged by of the project idea	Up to 10
Potential partners or competences sought for the project idea in other sectors or regions	Up to 30
TOTAL	100

The portfolio includes the preparation and collection of at least 24 investment project ideas. The following step is the evaluation of the INVESTMENT PROJECT PROPOSALS, needed to select the 10 PILOT CASES starting from the 24 investment project ideas. The Incubation/Acceleration system consist of the selection of the preparation of dedicated mini BPs for the best 10 selected, and the following selection of the excellence 5 for the preparation of complete BPs.

It was jointly decided that TEX4IM process for the production of project BPs is split in 2 stages: the first one was based on the collection of at least 16 out of the 24 investment project ideas, the selection of the best 6 out of 10 for the preparation of mini BPs, and following selection of the best 3 out of 5 for the preparation of complete BPs.

The portfolio is composed of project proposals, developed as an intermediate step before the mini business plans. The standard template for the project proposals is in Annex to this document. The word template for the preparation of investment project ideas for the first stage, i.e. the preparation of the min 24 investment project proposals, was approved by the SC (Steering Committee), keeping the level of definition of the budget simple, including the distinction between personnel, direct and indirect costs, and the source of funding.



It was decided to also keep the evaluation simple, as the TEX4IM approved project states that the evaluation will be done by the project team internally, without mobilising external resources (for whom no budget is available). So, the evaluation team was decided to be composed by the Steering Committee, plus 3 invited externals, impartial toward the TEX4IM partnership: Lutz Walter- ETP, Jan Laperre - Vice President of Textranet, Prof. Mirela Blaga, Autex (Association of Universities for Textiles).

The project proposal draft was discussed and jointly developed during a half-day working session at the meeting in Lille.

24 project ideas were developed: the first part of the Portfolio of project opportunities was composed after the first MM, the second part was developed in 2021, in parallel to the second MM.

The TEX4IM process is described in figure 1: to make an idea ready for implementation requires that specific steps are taken. In Tex4IM those steps are defined as the idea definition, by preparing an Expression of Interest, and then a Project Idea: this first part of the process is the composition of the portfolio. Then, project proposals with top merits are further developed to become business plans, according to the scheme below. Each step in the process contributes to giving companies the opportunity to develop and formulate their business in a European context.

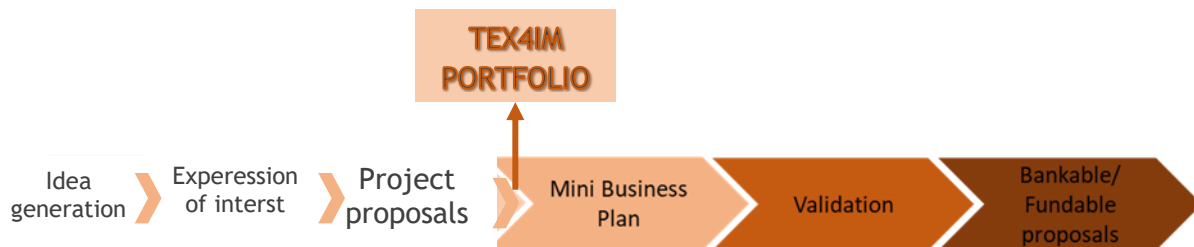


Fig 1 - Tex4IM portfolio creation in the incubation and acceleration process

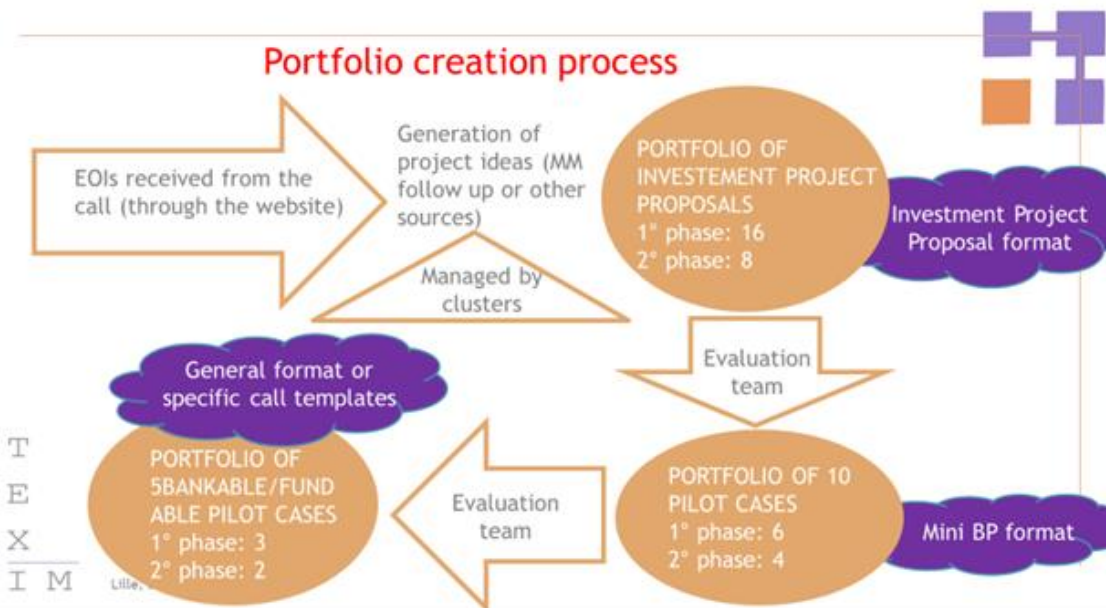


Fig. 2 - TEX4IM Portfolio of investment projects selection process

The terminology agreed by project partners to distinguish the different level of details of proposals of the three stages of the process is:

- 24 investment project proposals
- 10 pilot cases
- 5 bankable/fundable pilot cases.

4. The project proposal

Within the framework of the Tex4IM incubation and acceleration system the project proposal is crucial to understand if the idea deserves the effort of preparing a more developed business plan. For this kind of judgement, the personal experiences and skills of TEX4IM team play a major role.

Project proposals support collaborative cross-partnerships between SMEs and providers of novel technologies. They are the first step to assess the ideas viability, and if to continue to concrete plans on how to proceed towards the market. The project proposal template defined reflects the in-use practice of clusters and other specialists in the assistance to SMEs and in the development of supported novel projects.

By providing the content of the annexed form, the evaluation team, (Tex4IM Steering Committee + 3 external members), can judge the viability of the partnership and



business concept. The selection took place in Task 3.4, while the provision of the technical support for demonstration and pilot projects, with particular reference to the selected pilot cases, was in task 4.2 of the project.

The standard template for project proposals is in Annex to this document.

5. Portfolio sustainability

The portfolio will be replicated (by renovating the existing one) every year for the following 5 years after the project end.

As declared in the long term agenda of TEX4IM, (D5.5), the technological and business intelligence is at the basis of the strategic mission of the partnership, to provide SMEs with the support to a constant generation of collaborative project ideas.

The portfolio is now composed of 24 proposals, but this will be renovated every year. The first KPI of the long term agenda (“Action 1: European cooperation projects Ideas generation, incubation system management”) actually relates with the identification of new opportunities for promoting cross-sectorial projects cooperation; the commitment of the partnership is to meet regularly, at least once per year, to stimulate the generation of at least 3 projects per year (15 projects in total) for the next 5 years. The project will necessarily come from, or involve, a TC SME.

The toolbox developed in project WP3 will be mobilised for implementing the intelligence service. The toolbox is extensively described in D3.3.

The ideas generation will take place according to the following flow (extracted by D3.3):

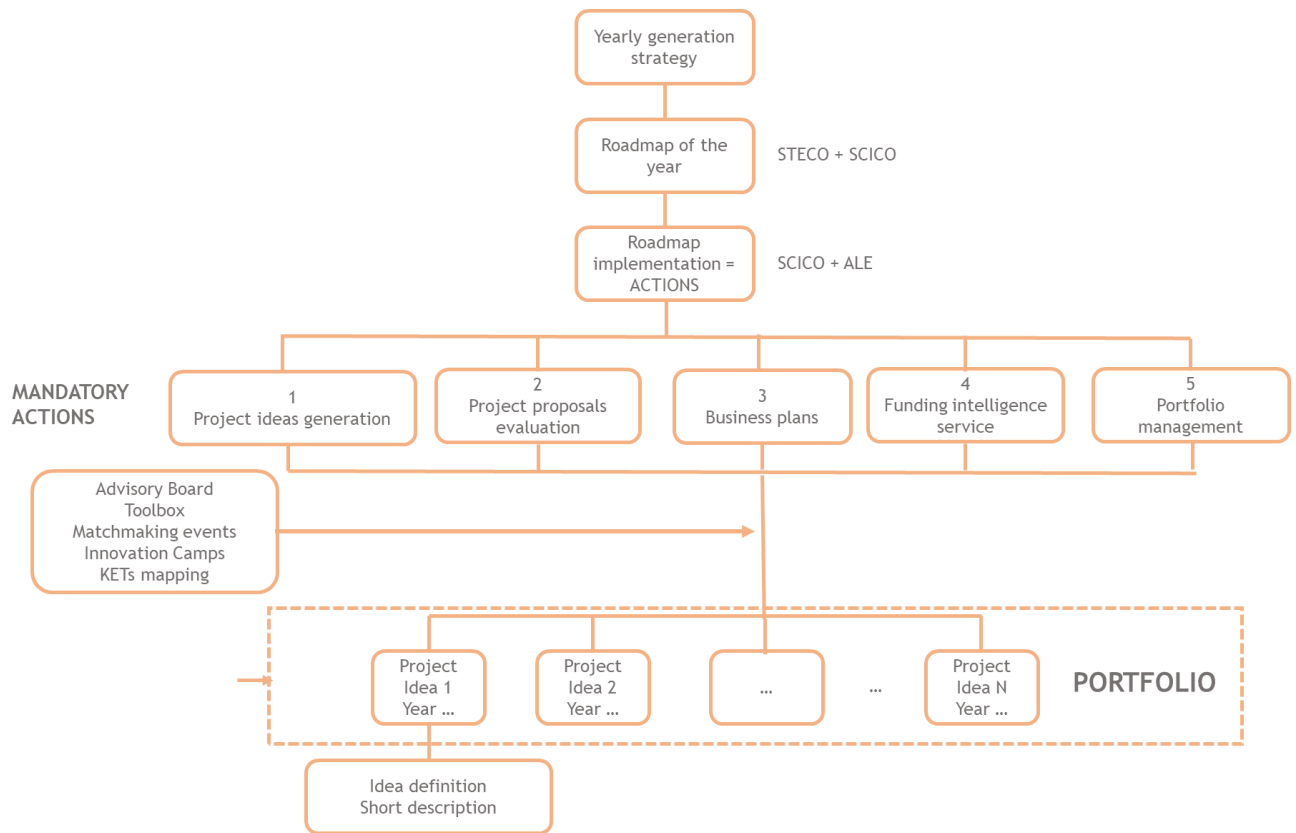


Fig. 3 - TEX4IM Portfolio formation process

6. Portfolio final composition

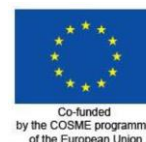
The following list represents the final composition of the 24 project proposals at the date of project end (April 2021). Company names are omitted for privacy reasons.

Being this document public, only a table with a brief description of the project proposals are reported. The partnership is concerned with the protection of sensitive data of SMEs that submitted their project ideas to TEX4IM team, for their development and implementation. The 24 fully developed project proposals are available at coordinator archives.

TEX4IM - PORTOFOLIO OF PROJECT PROPOSALS

	Reference cluster	Country	Project title	Short description	TEX4IM Thematic priority	Mini BP
1	NTT	IT	Recycling cashmere with brushing technology	Recycling cashmere with brushing technology	Circular Economy	
2	NTT	IT	An innovative technology system to realize a new natural and green fur	Process for natural fur without requiring the animals killing or massive use of chemicals.	Circular Economy	
3	NTT	IT	Artificial intelligence for automated monitoring and control in manufacturing industry	Quality and process control by AI	Industry 4.0 and advanced manufacturing	Y
4	NTT	IT	H-Gear	Heating clothing for law enforcement and military garments sector	Advanced Textile Materials (ATM)	Y
5	Astrico	RO	3D knitted fabrics/panels for phonic/sound insulation	Development of 3D knitted fabrics/panels for phonic insulation	Advanced Textile Materials (ATM)	
6	Astrico	RO	Screen printed smart textiles	Design and manufacture smart textiles with screen-printed circuits on knitted and woven fabrics for monitoring essential biologic parameters (heart rate, temperature, pulse). The project will investigate the properties of different textile structures and use them to create smart products with a wide range of functionalities.	Advanced Textile Materials (ATM)	
7	Ateval	ES	Adapt the ultrasound system to an air-jet weaving machine for industrial weaving of 3D	To develop a tool for looms for cutting and sealing fabric with high thickness layers.	Industry 4.0 and advanced manufacturing	
8	Ateval	ES	ARTIFICIAL INTELLIGENCE FOR AUTOMATED MONITORING AND CONTROL IN MANUFACTURING INDUSTRY	Cognitive information system with capabilities for automated registration of productive processes through an advanced smart system, reliable awareness of process and operations.	Industry 4.0 and advanced manufacturing	

9	Citeve	PT	Using residues from discarded mattresses to develop new textile structures for home textiles	Using residues from discarded mattresses to develop new textile structures for home textiles	Circular Economy	Y
10	Citeve	PT	Using Fibres from Agricultural by-products for Sustainable Fashion	Using Fibres from Agricultural by-products for Sustainable Fashion	Circular Economy	Y
11	Clutex	CZ	Selfcleaning public transports seats upholstery	optimize the application technologies of multifunctional treatment and to verify the functionality of antibacterial and self-cleaning treatment of textiles	Circular Economy	
12	Clutex/Euram/Tehtera	CZ	Furniture with antibacterial & selfcleaning finish	Using existing spraying technology of silver on surfaces like for example wood/chipboard. Application area - furniture for clean environments e.g. hospitals	Advanced Textile Materials (ATM)	Y
13	Pointex	IT	Cluster Wools of Europe & Mediterranean	Find new application areas for wool (greasy wool)	Creativity as a new business model for TC value chains creation	
14	Pointex	IT	“RIFILOC” RICERCA INNOVAZIONE FILIERA ITALIANA LANA ORTICA CANAPA	Localy (Italian) grown textiles, from ariculture to ready product. (hemp, nettle & wool)	Creativity as a new business model for TC value chains creation	
15	Boras	SW	Development and Piloting of Chione Flexible Heat Membrane	Heating technology for textiles	Advanced Textile Materials (ATM)	
16	Pointex	IT	Textile from Spartium Junceam Fibres (TEXSJF)	New fibre made of mediteranian domestic plant with smal requirement of water and pesticides.	Creativity as a new business model for TC value chains creation	Y



17	Euramaterials	FR	Well with Waves	PPE for persons working with medical X-ray-equipment	Advanced Textile Materials (ATM)	
18	Ateval	ES	TEXTILES4PANDEMICS	Face Masks made of re-usable textile materials as an approach to mitigate the environmental impact of disposable surgical products.	Circular Economy	
19	Boras	SW	Pure	To introduce a new labeling system in the manufacturing chain where pure natural materials are used.	Circular Economy	Y
20	Astrico	MO	Smart clothes-quality of life and social integration	Develop a specific sustainable material for durable, functional clothes for premature babies	Advanced Textile Materials (ATM)	Y
21	Ateval	ES	NEUROFOOT-NEUROSTIMULATIVE FOOTWEAR TO PREVENT INJURIES AND IMPROVE PERFORMANCE.	Smart insoles with pressure sensors integrated using screen printing technology with conductive inks and the electronic embedded. Can measure in the training field, analyse the data in an APP, detect the origin of the problem and parametrize the device to stimulate the user with biofeedback and inform in real time how to do the activity well for your body.	Industry 4.0 and advanced manufacturing	Y
22	Pointex	IT	CLOTEX	High quality textiles able to shield from EMF (Electromagnetic fields) and fulfill the demand of concerned customers.	Advanced Textile Materials (ATM)	Y
23	Euramaterials	FR	Healty horses for winning jockey	Development of a specific textile mat to mapping pressure on the horse back to detect unfit saddles and bad rider posture	Advanced Textile Materials (ATM)	
24	NTT	IT	BIOAGROTEX	Agrotex devices with controlled release of bio-agrochemicals for a low impact agriculture	Creativity as a new business model for TC value chains creation	

D3.2 - Portfolio of projects/opportunities in the S3 thematic areas for TC sector, including the monitoring scoreboard



Summary per region

		Project ideas received
1	Tuscany	5
2	North-East Romania	3
3	Valencia	4
4	Norte - Portugal	2
5	Czech Republic	2
6	Piedmont	4
7	Boras	2
8	Haute de France	2
		24

Summary per thematic area

Advanced Textile Materials (ATM)	9
Circular Economy	7
Creativity as a new business model for TC value chains creation	4
Industry 4.0 and advanced manufacturing	4
24	

7. Monitoring scoreboard

A monitoring scoreboard with verifiable performance indicators related to project results and activities (as outlined in section 2.4), with a particular emphasis on the mobilisation of interregional collaboration projects for innovation and investments.

Indicators (Section 2.4 of the call)	Target	Achieved	Comments	Status of implementation
Impact of the joint activities of the partnership, to be measured by the number of resulting collaboration and innovation projects , including those mobilised in the context of the implementation of cluster policies and smart specialisation strategies.	24	24	24 investment project proposals	100%
Total amount of investments generated by the collaboration and innovation projects, as per projects budget of the portfolio.	-	€26.807.991	The figure is calculated as the sum of the budget of costs of each of the 24 project proposals composing the TEX4IM portfolio	100%
Number of SMEs having directly benefitted from the supported actions.	40	291	SMEs that attended the two MM events, that submitted an EOI (and that did not attend the MM) and that were involved in the portfolio (if not included in the categories before)	100%
Number of SMEs having indirectly benefitted from the supported actions.	500	>500	<ul style="list-style-type: none"> • SMEs indirectly impacted via dissemination activities; examples: • Workshop “Fostering cross fertilization value chains to boost competitiveness in EUSALP Regions” (Milan, 2018) • Conference “Industrial Modernisation and Interregional Cooperation” (Florence, 2019) • RECO’ - Circular economy Festival (Prato, 2019) • ITMA Fair (Barcelona, 2019) 	100%



			<ul style="list-style-type: none"> • <i>Techtextil Fair (Frankfurt, 2019)</i> • <i>MODTISSIMO event (Porto, 2019 and 2021 in virtual modality),</i> • <i>Texfit (Prato, 2019);</i> • <i>ItechStyle Summit (Porto 2019)</i> • <i>Final event of TEXTILE2030 project (Lyon, 2019)</i> • <i>8 Local workshops (1 per partner during all project duration)</i> • <i>Textile Challenge 4 (Boras, 2019)</i> • <i>International trade fair STYL (Brno, 2019)</i> • <i>International trade fair MOBITEX (Brno 2019)</i> • <i>Ateval Open day (Ontinyent 2020)</i> • <i>Going green workshop (Prague 2020)</i> • <i>Clamtex virtual event (Jan 2021)</i> • <i>TEX4IM final conference (Virtual, April 2021).</i> 	
<p>Number of cluster organisations, other business networks, technology centres and science parks from different COSME participating countries having benefitted directly and indirectly from the support actions</p>	<p>Non-TC clusters indirectly impacted: 8</p> <p>Non-TC clusters directly impacted: 4</p> <p>TC clusters directly impacted: 4</p> <p>TC clusters indirectly impacted: 8</p> <p>Business networks impacted (in total, both directly and indirectly): 8</p>	<p>Non-TC clusters indirectly impacted: 24 (matchmaking at Bucharest event)</p> <p>Non-TC clusters directly impacted: 8 (Bucharest meeting, SmartX project)</p> <p>TC clusters directly impacted: 5 (Techtera, AEI Textil, Huddersfield Textile Centre of Excellence, Modacc, EUTextile2030)</p> <p>TC clusters indirectly impacted: 8</p> <p>Business networks impacted (in total,</p>		<p>100%</p>

D3.2 - Portfolio of projects/opportunities in the S3 thematic areas for TC sector, including the monitoring scoreboard



	<p>Technology centres and science parks directly impacted: 8</p> <p>Technology centres and science parks indirectly impacted: 24</p>	<p>both directly and indirectly): 8 (Acciò, Sistema Moda Italia, TexclubTec, TEKO, Euratex, EBAN - European Business Angels Network, TEXTRANET, AUTEX)</p> <p>Technology centres and science parks directly impacted: 8 (RISE, IFTH, CENTI, CNR Italy, Swedish School of Textiles, Peak Region AB, University of Attica, Textile Testing Institute CZU)</p> <p>Technology centres and science parks indirectly impacted: 28 (12 SmartX and 16 members of Textranet)</p>		
Number of partnership agreements resulting from the supported actions.	16	19	19 agreements with other regions or other sector entities	100%
Quality and impact of joint activities to strengthen interregional cluster cooperation, to be measured by the number of regions involved in the identification, preparation and testing of joint activities towards improving cluster-specific framework conditions	8	10	<i>The 8 regions of TEX4IM and the region of Rhone-Alpes, where TECHTERA (having signed the PA) is located; Moldavia is another region impacted since a company based in this region has developed a Mini Business Plan</i>	100%
Number of firms from which concrete industry feed-back was gathered for this purpose	500	313	<p><i>67 are the firms of the first round of portfolio preparation mainly concentrated in year 2019 (MM Stockholm, EOs and Project proposals.</i></p> <p><i>246 firms of second round mainly concentrated in year 2020 and 2021 (Virtual MM, EO received and project proposals)</i></p> <p><i>The target of 500 was not well evaluated</i></p>	63%

D3.2 - Portfolio of projects/opportunities in the S3 thematic areas for TC sector, including the monitoring scoreboard



<p>Quality and impact of synergies created with other relevant European, national or regional initiatives and key networks, notably the Smart Specialisation Platform for Industrial Modernisation, to be measured by the number of bilateral meetings, joint events and deliverables that were either prepared in consultation with or directly feed input into other initiatives and key networks</p>	<p>2 matchmaking events</p>	<p>2</p>	<p><i>1 held in-person in Stockholm (13-14 Nov 2019) and 1 Virtual (10-17 March 2021)</i></p>	<p>100%</p>
<p>Number of stakeholders involved in peer-review meetings, workshops and related events</p>	<p>250</p>	<p>449</p>	<p><i>368 stakeholders from the local workshops organised by each partners; 74 participants to the TEX4IM final conference; 7 participants from a peer review with other ESCP-S3 partnerships.</i></p>	<p>100%</p>



8. Conclusions

The portfolio is central to the TEX4IM mechanism and will guide the activity of the partnership in the future, but mostly will be a tool to support the flourishing of business opportunities for TC SMEs in Europe. The portfolio refers to networking activities with other organisations, which basis were founded along the 2 years duration of the project: Textranet and other technology providers of D4.3, Regiotex platform, the partnership strategy establishing synergies with EUTEXTILE2030, and many others.

The generation of project ideas will be nurtured by the toolbox, matchmaking events in primis. The work done so far indicates that the system is functional in the European textile cluster environment and can really make the difference in the level of technologies adoption by part of TC SMEs.

24 project proposals is considered to be a satisfactory objective, despite the fact that many EOIs received were disregarded, as well as other project ideas generated but not developed.

This is a patrimony of knowledge that TEX4IM partners will preserve and use to make available to companies new ideas and opportunities for their future upgrade and growth.

9. List of relevant documents

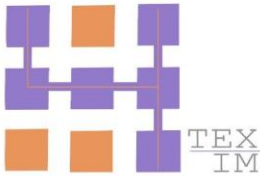
Synergies from other strategic documents generated during the project implementation that will act as enablers for the portfolio renovation:

- D1.4 TEX4IM marketing plan
- D1.3 Partnership Strategy: all principles of the partnership strategy are here recalled and will be regularly updated if needed
- D1.5 Partnership agreement
- D2.4 Strategic document defining new and potential ideas and partners (cross sectoral and cross regional) for joint investments and collaborations for the TC sector
- D3.3 Medium-long term plan for the incubation and acceleration system sustainability
- D3.5 Portfolio validation methodology and outcomes
- D4.1 Specs of the support service to SMEs and delivery methodology D4.2 Pilot cases business plans
- D4.3 Repository of signed cooperation agreements for interregional collaboration projects
- D5.5 Long term cooperation agenda

D3.2 - Portfolio of projects/opportunities in the S3 thematic areas for TC sector, including the monitoring scoreboard

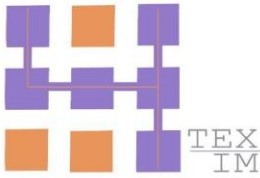


Annex - The project proposal template



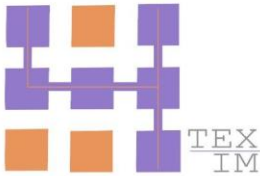
TEX4IM INVESTMENT PROJECT PROPOSAL

1	Project name	
2	Organisation	
3	Contact person	
4	Company website	
5	Phone	
6	E-mail	
7	Cluster of reference	
8	Budget	
9	Keywords	
10	Duration of the project	



11 - Targeted Problem (min. 1000 - max 3500 characters)

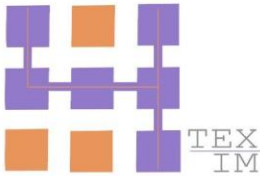
12 - Project idea (quality and ambition of the project) (min 1.500 characters - max 3.000 characters)



13 - Aim/scope of the project (including reference thematic area) (min 500 characters - max 2.500 characters)

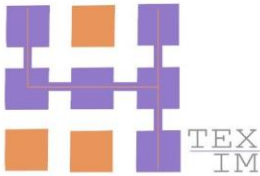
14 - Expected results (min 500 characters - max 3.000 characters)

15 - Main tasks (min 500 characters - max 2.500 characters)



16 - Partners/competences and role in the project (min 500 characters - max 2.000 characters)

17 - Level of potential innovation and industrial modernisation (min 500 characters - max 2.500 characters)



18 - Market potential uptake (min 500 characters - max 3.000 characters)

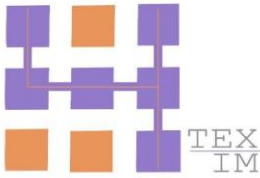
19 - Specific Needs (min 500 characters - max 1.000 characters)

20 - Budget and Funding

TOTAL COSTS	
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PROJECT FUNDING:

Companies internal resources	
EU funding (please indicate the EU call, if any)	
Other (please specify)	



21 - Partners

Organisation name	Cluster of reference	Core business