

D2.4 First Term Web (Knowledge Hub) Information Updating

Transitions Project

Transitions Project	
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Executive summary

This document provides the First Term Web (Knowledge Hub) Information Updating about the contents that will contribute to populate the TRANSITIONS website.

Among the goals of the project is to populate the webpage with data and analysis results from activities carried out during the project in order to also become a reference point for stakeholders from the textile and fashion sectors so as to share with them which new training profiles are needed to support the transition towards a circular and digital economy.



About transitions

TRANSITIONS (Erasmus + Project) is a strategic alliance for innovation formed by research and technological centres, Vocational Education and Training (VET), Higher Education Institutions (HEI), public policy actors, SMEs, and other sectoral organizations from Spain, Italy, The Netherlands, and Sweden. The aim is to nurture the textile and fashion transition to a 4.0 system and a circular economy by developing new learning methods, tools, and practices to help students, young designers, and professionals to face real challenges.

The objective is to create collaborative and real work-based training where the different actors in the value chain work on how to take advantage of technology to generate new value proposals and new business models within a circular economy.

Transitions propose a multidisciplinary pedagogical approach based on transition design theories and emerging disciplines and practices at the intersection of textile, biology, and digital fabrication. General objectives:

- To foster new, innovative and multidisciplinary approaches to teaching and learning, fostering innovation in education design and delivery, teaching methods, assessment techniques, learning environments and developing new skills;
- facilitating the flow and co-creation of knowledge between higher education and vocational education and training, research, the public sector and the business sector.

Specifically, TRANSITIONS will:

- Create a modular training programme based on Industry 4.0 for a T&F new circular system.
- Set up innovation-focused training modules based on real practice and challenges (Transition Labs) to skill, reskill and upskill students and professionals.
- Develop new ways to generate innovation in textile and design processes, production and commercialization.



Deliverable objective

a. Objective

The main objective of **Deliverable 2.4 First Term Web (Knowledge Hub) Information Updating** is to provide the first term information that will be published in the TRANSITIONS website. The goal is to present the information that TRANSITIONS project will publish in the project website.

First Term Web (Knowledge Hub) Information Updating

a. TRANSITIONS Website

The TRANSITIONS website has been created with the aim to promote the project's activities among all the stakeholders.

The "Results" section has been created to include the analysis and the mapping developed by TRANSITIONS projects through surveys, workshops with stakeholders, focus groups and many other activities implemented along the project. The aim of TRANSTIONS project is to present in this section the results of these activities in order to provide stakeholders of textile and fashion sector with relevant information for the transition towards a green and digital economy. https://transitionsproject.eu/



b. Methodology for defining the "Results" section

This deliverable aims to present the analysis conducted and elaborated in Work Package 2 (WP2) that will be included in the "Results" section during the first year of the project.

WP2 aims to collect and organise all the information needed for the partners and the project regarding the state of the art of textile and fashion sectors. Specifically, throughout the course of the project, the work of the partners collaborating on this WP will focus on:

- · Mapping textiles and materials innovations;
- Mapping of technology and digital tools for the industry innovation in circularity;
- Mapping target and market needs, and skills mismatches for a future circular economy transformation;
- Framing the target training profiles for future change agents in fashion and textile sectors;
- Mapping the possible opportunities for collaboration between VET, HEI, researchers and enterprises.



The TRANSITIONS project believes that the results that will be obtained from these mapping and analysis will not only be useful as a basis for partners to create the activities planned in subsequent WPs. In fact, the creation of the "Results" section is also intended to be a tool aimed at all stakeholders from textile and fashion sectors who can benefit in this way from the results of the mapping and analyses produced.

c. TRANSITIONS survey

The first two reports, which will be published on the TRANSITIONS website during the first year of the project, are the result of an analysis conducted on the basis of a survey launched in December 2022 and closed in March 2023.

The survey was addressed to the following target audience:

- SMEs from the fashion sector and other cross-sectoral areas;
- Fashion start-ups;
- Fashion textile design students;
- Young designers;
- Universities and researchers in fashion and textile design;
- High Education Institutions (HEI);
- VET providers in fashion and textile design;
- Cluster organizations from the fashion and textile industries and the sectors interconnected in the TRANSITIONS project (circular economy, environmental and digital);
- · Technological centres;
- Fashion networks and professional associations;
- All the specialists in design and training development in fashion and textile.

The 158 responses gained through the survey and presented in both reports represent the perspective predominantly of VET, HEI and Professionals of T&F sector of six European countries: Italy, Spain, Sweden, the Netherlands, France, Germany. Albeit to a lesser extent, responses have also been gathered from other European and non-European countries (Australia, Austria, China, Finland, Iceland, Mexico, United Kingdom, and United States).

The survey was divided into the following sections:

- Organization general information;
- Challenges and difficulties to transition towards more sustainable or circular practices;
- Professional profile characteristics' needed for the green transition to circular economy;
- Training activities;
- Capabilities and tools for contributing to sustainability and circular economy in the textile and fashion world;
- Opportunities of collaboration between Vet/Hei/Research/Professional.

The objective of the survey was both to investigate the Professional and market needs, in particular it was focus on identifying the main challenges and needs of Professionals, VETs and HEIs to push towards a circular economy transition and to identify present and future opportunities of collaborations between these actors. The results analysis is presented in the "Professional and market needs" and in the "Collaboration map" reports, which can be published in the TRANSTIONS website. The survey template results to be use for dissemination purposes are included in the final Annex.



Professional and market needs

The report "Professional and market needs" (Deliverable D2.2) aims to present the professional and market needs of Textile and Fashion sectors to foster the Transitions towards a more circular and digital economy. In order to analyse the current situation in the T&F sector, part of the survey launched in December 2022 was taken into consideration.

Four different areas are presented in the report:

- Textile and fashion sector: circular economy and sustainability;
- Challenges in fashion and textile industry for the transition towards circular economy;
- Skills needed for the transition to circular economy;
- Professional and market needs in terms of training.

In the first chapter "Textile and fashion sector: circular economy and sustainability", a comparison based on the results of the survey was presented comparing the current percentage of operations that the TRANSITIONS target audience considers to be linked to methods or practices that could promote circular economy and sustainability, and the percentage they would like to achieve in the next 3–5 years. In addition, the most strategic areas arising from the survey for the textile and fashion sector were also presented in order to promote this transition.

The second chapter aims to show what are the main challenges of the textile and fashion industry in fostering and addressing a transition to the circular economy. This chapter aims to highlight these aspects to allow the development of tools, skills and methodologies that can support textile and fashion players to overcome them and enable them to undertake a green and digital transition.

The third chapter proposes to highlight what soft and digital skills are needed to support the transition to a circular economy and contribute to a more sustainable textile and fashion sectors.

The results show us that certain challenges in the sector, such as obtaining funding for investments in technology, personnel and infrastructure, need to be overcome as quickly as possible in order for the actors in the T&F sector to be able to promote the transition. The need for personnel and experts with specific characteristics (soft, digital and green skills) is now more than ever a key aspect that must be taken into consideration.

For this reason, in the fourth chapter, TRANSITIONS analyse the survey results regarding training needs: training new figures and/or updating the active professional figures is a key aspect of promoting this transition.



Collaborations map

The 'Collaboration Map' report collects and presents opportunities for collaboration between VET, HEIs, research and enterprises. The aim is to present the different types, challenges and areas of collaboration between VET, HEI, and professionals across Europe.

The report is structured in five sections which aimed to investigate the current and future opportunities of collaborations:

- Types of collaboration;
- Motivation for collaboration;
- Main barriers to set collaboration;
- · Interesting activities of collaboration;
- Top thematic areas for future collaborations in circular transition.

The first section focuses on identify which are the main types of collaboration which occurs between actors in the T&F sector at local, national, European and Non-European Countries. The second section identifies which are the motivation for collaboration resulted from the survey in the textile and fashion sector: those that emerged as most relevant in the choice to settle a collaboration are the willing to share knowledge and mutual benefit. However, it was in the interest of the TRANSTIONS project to also present and analyse the biggest challenges limiting these actors in creating new collaborations: chapter three has this aim and it analyse the major difficulties faced by actors in the textile and fashion industry.

In order to support the establishment of new collaborations, chapter 4 presents the activities that emerged from the survey as the most interesting for establishing new collaborations both domestically and abroad.

Finally, the report provides two collaboration maps in which are shown the top thematic areas in which actors intend to develop new collaborations and a mapping depicting the activities identified on a country-by-country basis.



Conclusions

The creation of the "Results" section is intended to be a tool aimed at all stakeholders from textile and fashion sector who can benefit in this way from the results from the mapping and analyses produced by the project.

Additional content from the activities and analyses conducted by TRANSITIONS partners in the next years will be included within the results section once the activities are completed.

Future changes in the Results section might search at transforming it into a "Resources" channel in which Deliverables and further information can be storaged and disseminated.

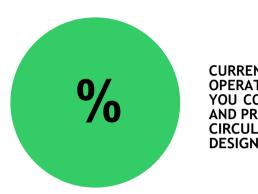
Feedback summary TRANSITIONS partners on D.2.4			
Feedback areas	Strengths	Weaknesses / Improvement needs	Action taken
Graphics		Formatting (ELISAVA)	ELISAVA took care of the formatting of the deliverable
Content		Grammar (ELISAVA)	ELISAVA took care of the revision of the Grammar.
Website structure		Changes in the website structure might take place in form of new/ modified sections	This will be coordinated with Modacc in order to assess those changes.



Annex

Survey visualisations to be disseminated in the website with the final results:

ORGANISATION GENERAL INFORMATION



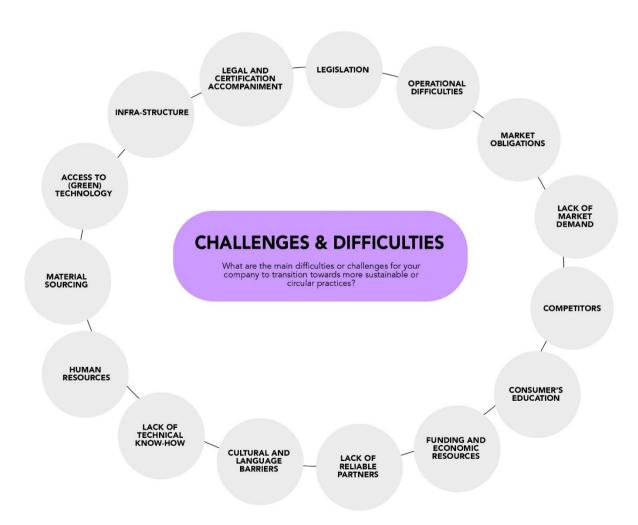
CURRENTLY, WHAT PERCENTAGE OF THE OPERATIONS OF YOUR COMPANY WOULD YOU CONSIDER TO BE LINKED WITH METHODS AND PRACTICES RELATED TO SUSTAINABILITY, CIRCULAR DESIGN/ECONOMY, OR REGENERATIVE DESIGN/ECONOMY?

WHAT PERCENTAGE OF YOU EMPLOYEES CURRENTLY HAS THE FOLLOWING LEVELS OF EDUCATION:

BA	O/O ACHELOR EDUCATION
1	% TECHNICAL TRAINING
GF	% RADUATE EDUCATION

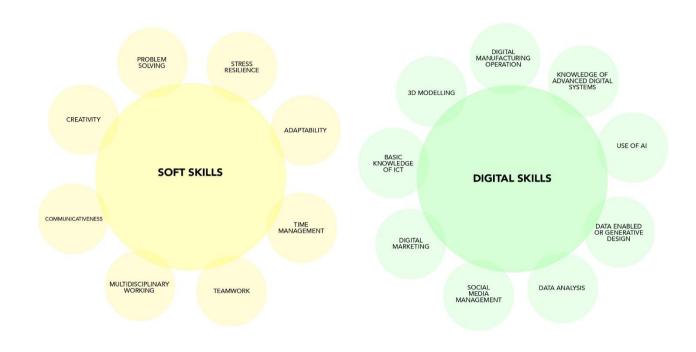
WHICH OF THE FOLLOWING AREAS DO YOU CONSIDER MOST STRATEGIC FOR THE TEXTILE AND FASHION INDUSTRY IN THE NEXT 3-5 YEARS?

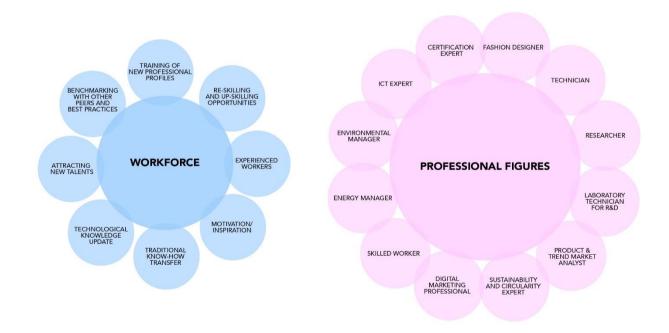




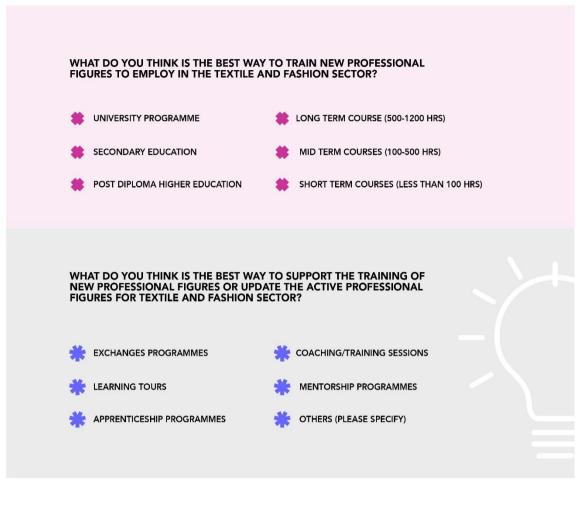
PROFESSIONAL PROFILE CHARACTERISTICS'

Needed for the green transition to circular economy









WHAT WOULD BE THE IDEAL LENGTH FOR ENGAGING IN SUCH TRAINING ACTIVITIES? RECURRING SHORT TERM SESSIONS OF 4 HOURS SINGLE INTENSIVE SESSIONS OF 4-6 DAYS (SPRINTS) SESSION OF 1-3 MONTHS ANNUAL EVENT ON DEMAND OTHERS (PLEASE SPECIFY) WOULD YOU BE WILLING TO PAY FOR THIS ACTIVITIES? THE STATE OF THE SPECIFY OTHERS (PLEASE SPECIFY)

CAPABILITIES AND TOOLS

for contributing to sustainability and circular economy in the textile and fashion world

WHICH CAPABILITIES ARE ESSENTIAL?

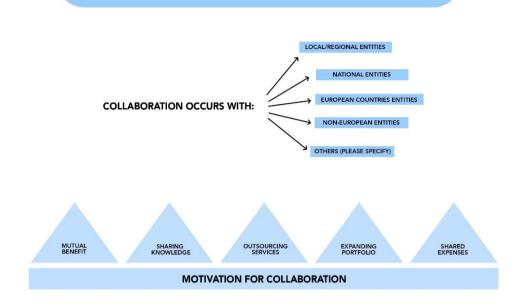
KNOWLEDGE OF PROPERTIES OF RECYCLED TEXTILE MATERIALS MANAGEMENT OF UNSOLD STOCK SUPPLY CHAIN MANAGEMENT KNOWLEDGE OF LOCAL TEXTILE AND FASHION HERITAGE COMMUNICATION SKILLS DIGITAL DESIGN SKILLS TEXTILE RECONDITIONING TRACEABILITY TECHNOLOGY (LIKE BLOCKCHAIN, QRS ETC.) END OF LIFE MANAGEMENT OF OWN PRODUCTS ENERGY MANAGEMENT SKILLS RECYCLING TECHNOLOGIES AND OPPORTUNITIES CREATIVE THINKING

WHICH TOOLS ARE IMPORTANT?

ENVIRONMENTAL CERTIFICATION
LIFE CYCLE ASSESSMENT (LCA)
LIFE CYCLE COSTING (LCC)
SPECIFIC MACHINERY/EQUIPMENT FOR RECYCLING PROCESSES
'JUST IN TIME' APPROACH
SOCIAL MEDIA
VIRTUAL GARMENT DESIGN SOFTWARE
ADVANCED DIGITAL MANUFACTURING EQUIPMENT
ARTIFICIAL INTELLIGENCE IN THE MANUFACTURING PROCESS
E-COMMERCE
DIGITAL SAMPLE BOOK
BLOCKCHAIN
DIGITALIZATION
BUSINESS INTELLIGENCE
MODELLISATION, PROCESS SIMULATION
DIGITAL TWINS

OPPORTUNITIES OF COLLABORATION

BETWEEN VET/HEI/RESEARCH/ PROFESSIONAL





POSSIBLE FUTURE OPPORTUNITIES OF COLLABORATION BETWEEN VET/HEI/RESEARCH/PROFESSIONAL

Which ones among the following activities of collaboration could be interesting for your organization?

