

WP T3 APPROACH VALIDATION

ACTIVITY A.T3.3 INTERNATIONAL ADVISORY

BOARD - 3RD MEETING

Deliverable D.T3.3.1

Working Progress Report

Version 1

11/2020

Responsible partner:

PP4 INNOVATEXT (Hungary)



CONTENT

January/ June 2020.....**Errore. Il segnalibro non è definito.**

This document has been issued within the project ENTeR (CE 1136) thanks to the funding received from the European Union under the Interreg Central Europe Programme (2nd call 2016)

This document reflects only the authors' view and neither the European Commission nor the Interreg Central Europe Managing Authority are responsible for any use that may be made of the information it contains.

ENTeR – Expert Network on Textile Recycling

ENTeR works in five central European countries that are involved in the textile business, to promote innovative solutions for waste management that will result in a circular economy approach to making textiles.

The project will help to accelerate collaboration among the involved textile territories, promoting a joint offer of innovative services by the main local research centres and business associations (“virtual centre”), involving also public stakeholders in defining a strategic agenda and related action plan, in order to link and drive the circular economy consideration and strategic actions.

The approach of the proposal and the cooperation between the partners are oriented to the management and optimization of waste, in a Life Cycle Design (or Ecodesign) perspective



CE1136 - Expert Network on Textile Recycling

January/June 2020

Collaboration Model

The model involves clusters, associations, R&T centres and companies with the common objectives of **promoting innovation in material resources efficiency and reducing the environmental impact of products over the life cycle.**

This step originates from having identified the following needs:

- to accelerate collaboration among the involved textile regions
- to build critical mass and knowledge sharing in order to support more widespread application of textile recycling by SMEs.

The proposed solution is to create a **portfolio of innovative services** denominated **Virtual Centre** to be offered to textile companies and interested subjects in Central Europe and other regions that will be developed based on:

- sharing the best practices available
- sharing specialist knowledge from technology centres
- utilising a tool (online platform) that has been developed in the Life+ M3P project and is made available by the lead partner Centrocot.



1 Photo by You X Ventures on Unsplash

The process for defining the collaboration model has been organised by UNIVA by the following steps:

1. Analysis of the project progress and preparation of a concept proposal
2. Sharing and discussion of the concept proposal
3. Collection of feedbacks and ideas from the partners through a survey
4. Preparation of a draft collaboration model
5. Discussion and refinement
6. Finalisation of the collaboration model.

ENTeR – Expert Network on Textile Recycling: innovative waste management and recycling methods in textile manufacturing make it possible to reduce and reuse waste. It helps cutting production costs while protecting the environment. ENTeR works in five central European countries that are involved in the textile business, to promote innovative solutions for waste management that will result in a circular economy approach to making textiles.

Site Web:

www.interreg-central.eu/enter

Czech Republic

Stakeholders group meeting in Broumov

On 24 June 2020, after the end of the COVID-19 restrictions, Czech experts from the textile industry met in Broumov on General Assembly of CTPT. The final results of the ENTeR project were presented them. "Strategic Agenda on Textile Waste Management and Recycling" - output of ENTeR project - was distributed among participants. The M3P database was also discussed.



Participants were interested in a new pilot project focused on COVID-19. Czech ENTeR partners asked to support project ENTeR in REGIOSTARS AWARDS 2020 and invited attendees to the final conference of the ENTeR project.

Hungary

International online workshop

Even though the COVID19 situation highly influenced the ENTeR project partners, PBN was trying to achieve the best possible ways and find a solution to the problems. The International Workshop, which should have been organized in Croatia, instead has been held as an international online workshop. We carried out numerous preliminary activities such as looking into different online platforms, cooperating with Croatian nationalities, contacting relevant, interesting presenters and stakeholders.

PBN was actively working on the 2. Pilot case, which will be about the 3D printing and possible future outcomes in the textile industry. The colleagues working on the ENTeR project actively participated on the Hungarian waste and textile online conference, and also helped to the other Hungarian project partner to organize the online event. PBN, as the responsible partner for the A.T.2.2. Waste database, started carrying out the activities and working on the deliverable and on the waste database.

Germany

Textile Recycling - From residual material to raw material



At the end of February 2020, the final meeting of the network project "RE4TEX - New Technologies for Textile Recycling", which was launched in April 2019, took place at the Saxon Textile Research Institute (STFI), Chemnitz/DE. Partners from research and industry (SMEs) as well as representatives of trade associations and recycling companies discussed possibilities for optimizing existing and developing new textile recycling processes.

During an interactive workshop, project ideas were developed, which focused on the recovery of raw materials from textile production waste and their reuse, on recycling-oriented design and the recycling of smart textiles. These ideas form the basis for technology- and material-oriented individual projects for which funding is applied for in a subsequent network project within the framework of the Central Innovation Programme for Medium-Sized Enterprises (ZIM). The project management of RE4TEX network for both phases is in the responsibility of STFI.

Poland

Training on Circular Economy

On February 27th, 2020 – Polish partners of ENTeR Project (Ł-IW and PIOT) organized one-day Training on Circular Economy on the premises of FERAX company – a leader of hosiery and active wear production in Poland. It should be noted that the initiative of such a training is a result of contacts during our Local Conference in Zakopane Kościelisko last year. The training covered all planned modules, i.e. Training Paths: • *CE Tools*, • *Strategic Agenda*, • *Recycling*, • *Pilot cases*, • *Eco-design*. Questions and answers constituted the additional part of this Training. This discussion concerned also specific problems within CE scope faced by the FERAX.

The 18 person-training group consisted of technologists, production managers, marketing staff, sales staff of Ferax and Wola – division. The participants appreciated the compact, clear form which covered in an orderly and comprehensive way all main issues within CE.



Certificates for participants

Poland

Fair in Łódź



On March 3, 2020, during the **Fashionwear Fair in Łódź** the achievements of the project in the last six months were presented by PIOT Representatives. Activities related to Pilot Cases and the introduction of access to M3P Platform for companies were described in detail. The meeting was attended by over 50 companies.

In addition, in the last week of March, (the last week before the lockdown of companies associated with the Covid-19 Pandemic) members of PIOT and collaborating enterprises received a newsletter containing information about the implementation of the Enter project, the newsletter was sent to more than 200 sector stakeholders.

Czech Republic

Study of the reduction of generated waste from disposable face masks

In the spring of 2020, the world was paralyzed by a COVID-19 pandemic, which led to the mass use of the single-use protective face masks made from the non-woven textiles. This results in a sharp increase in the amount of waste produced. The new pilot case launched by the project partners aims to focus on the possibilities of reducing the waste generation or the possible recycling of used face masks.

As at the beginning of the pandemic, the Czech Republic was one of the main promoters of wearing face masks; due to the shortage of the disposable medical masks on the market during the first attack of the pandemic, most of the Czech citizens used the face masks made from textile cloths.

In this new pilot case, the Czech project partner INOTEX aims to study reduction of the generated textile waste from disposable masks thanks to the „FreshDye“ face masks developed by INOTEX in cooperation with external partners outside the ENTeR project. These masks work on principle of the fotoactive dyestuff which after irradiation with common daylight generates the short-term reactive forms of oxygen; thanks to that, the mask is protected against the pollutants including aproved antibacterial effect. Thanks to that effect, it is not necessary to wash the masks at 100°C to decontaminate them; textile can be washed at 60°C. The approved durability of the photocatalytic dyeing at minimum 50 washing cycles prolongs the service life in comparsion to 100% cotton masks and significantly reduces amount of waste in comparison with disposable masks.



Hungary

Conference and training on textile waste management

Rescheduled and reorganized due to COVID-19, the Online Conference and Training on Textile Waste Management of Hungary was held on 28 May by INNOVATEX, as a part of Interreg Central Europe's ENTeR project. During the 4-hour online event, participants heard about the M3P waste matchmaking platform, practical reuse and recycling solutions, industrial textile waste reduction and treatment options, 3D printed recycling of plastic waste, and the introduction of eco-design approach in education and on industrial levels.

The presentations can be found on the Institute's website: <https://www.innovatext.hu/hu/hir/enter-online-textil-hulladekgazdalkodasi-konferencia-es-trening-letolthetoloadasok-es-program>



Italy

E.learning Training for research and design expert in the textile sector

Rescheduled and reorganized due to COVID-19, Centrocot and UNIVA organized 4 online training concerning TEXTILE RECYCLING AND CIRCULAR ECONOMY on 7,14,21 and 28 May 2020. The main topics of the 4 web training courses were:

- **Introduction to Circular Economy. Focused on** circular economy, legislative framework, problems faced in the implementation of this model in production processes, good practices and concrete cases of circularity on the textile supply chain. (110 attendees)
- **Recycling Technologies.** Focused on the technical aspects related to the recycling of textile products and of different component materials, depending on the quantity and value of the market and on the need for appropriate technologies.(75 attendees)
- **Research & Trends (EU projects and pilot cases).** Focused on the research areas that are being developed at European level, both defined by European strategies and generated by the needs to face the Covid-19 emergency, we will present immediately viable opportunities, as well as the results of some pilot cases in ongoing projects.(82 attendees)
- **Ecodesign and Industrial Symbols.** Focused on examples to innovate products and activities in a circular way, through Ecodesign and use of the M3P (Material Match Making Platform), specifically aimed at waste recovery.(52 attendees)

The presentations can be found on the e.learning platform:

<https://elearning-experience.centrocot.it/course/view.php?id=21>



Italy

Joint Circular Italian – Slovenian Initiative: CIRCULAR ECONOMY WORKSHOP

Promoting collaboration on Circular Economy between Italian and Slovenian industrial districts: this is the scope of the webinar organized by Centrocot in collaboration with UNIVA - Union of Industrial companies of the province of Varese, SRIP - Circular economy (Strategic Research and Development Partnership - Networks for the transition into a circular economy) and Štajerska Gospodarska Zbornica (Chamber of Commerce and Industry of Štajerska). The Clusters of the Lombardy Region, i.e. AFIL, LE2C and LGCA also presented their experiences in the field of Circular Economy.

The meeting held on 12th June fostered the mutual knowledge between the actors involved in the circular economy such as companies, technical centers, clusters, associations and possible future collaborations through M3P Platform and ENTeR project.

