



CE1136 - Expert Network on Textile

April/June 2018

1st IAB - ITALY

The **Interregional Advisory Board (IAB)** is an organism of consultation and support to the management of the ENTeR project. It is constituted by people named by the partners of the project, that will be asked to give feedbacks on encountered problems and addressed strategies, by their experience, competences and influence. The first IAB meeting was held in CENTROCOT on 9th May 2018. The first session of the meeting was focused on participants self-presentation, illustration of textile sector in each project regions and of the strategic agenda. In the second session a SWOT analysis was conducted with the help of a facilitator. Participants were assigned to one of four teams, each team was dedicated to one quadrant of the SWOT analysis. The production of any team was written on a flip chart sheet. Two were the objectives of the meeting: collect the partners' and the IAB Members' individual point of view on Strategic Agenda and facilitate discussion with



the aim to develop a common background. This determined the priorities of the whole group in the form of a weighted SWOT analysis. The methodology was well accepted by participants and the discussion was very fruitful. The main outputs achieved can be summarized as follows: there is a need of sharing technologies in the field of waste treatments and to boost the cooperation network. Weak points are the lack of specific classification of textile waste, and necessity to develop technological solution to recycle new types of waste (i.e. laminates, smart textiles, composites). The relation between industries that manage technologies and Research Centers can be an opportunity to be fostered also through training, aimed at guiding a new production in the direction recyclable products.

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 CE Workshop

The Czech Technology Platform (ČTPT) has organised on 5th April 2018 in Prague the workshop „Circular Economy, production and reuse of textile waste in Czech Republic“. Its aims was to enable sharing of experience in textile waste management and reuse to the stakeholders from textile industry, local authorities and also to the project partners. The presentations covered topics as the results of



survey on textile waste management in CZ; circular economy as one of the challenges discussed at level of the European Technology Platform; textile waste challenges by the Laundry and Drycleaners Association (APAČ); results of research on the complex use of stem fibres from flax and hemp.

Poland CE Workshop

The CE workshop, held on April 18th 2018 in Lodz, during TECHCONFEX Fair at Expo Hall in Lodz was addressed to policy makers, stakeholders, experts, companies, researchers and designers, who are interested in the circular economy (CE) and waste reduction in the textile industry. 39 participants took part at the event, among invited guests – stakeholders representing Lodzkie Region: Marshal's Office, Voivodship Inspectorate for Environmental protection,



Strzeмиński Academy of Art Łódź, national chambers (e.g. textile recycling materials), representatives of textile companies, project partners and press. The workshop was a great mixture of the different approaches of the waste management, combining lectures of CE experts, eco-designers, textile researchers and companies from Polish textile and clothing industry.

Italian - Workshop and Site Visit

The “Italian workshop and case studies”, held on **8th May in Gallarate (VA)**, presented a panel of speakers coming from different entities: IEFEE, the Department of Bocconi University that conducts applied research in the field of Energy economics, Humana, a NGO engaged in international solidarity and organizing collection of used clothes, RINA a global corporation that operates in many fields including Certification and energy. In the afternoon session local companies, **Alfredo Grassi, Radici Group** and **Afros Cannon** focused on their approach to recycling and circular economy.



On 9th May the site visit to **Material ConneXion® Italia** took place. It belongs to the most important international network for research and consulting on innovative and sustainable materials. Material ConneXion maintains a physical library of over 8000 materials and processes, with 20-30 new materials added each month.

Recycling competence at STFI



STFI has been dealing with the recycling of all kinds of textile waste since more than 25 years. The equipment and know-how concerning textile recycling at STFI meet the highest international state of the art. This is especially valid for the different fibre nonwoven plants but also for the cutting, agglomerating, compacting and tearing machinery to process textile waste. An airlaid plant has been installed as technical/technological basis for investigations of processing organic and inorganic short fibres. The production of random laid nonwovens allows processing of long

natural, reclaimed and synthetic fibres in blends with thermoplastic binding fibres into nonwovens for civil engineering and the automotive sector. Especially, the recycling of the energy-intensive produced carbon fibres is one of STFI's most important developments in this field which was also honoured with the “German Resource Efficiency Award” by the Federal Ministry for Economic Affairs and Energy in the year 2013.

Hungary - Workshop and Site Visit



The International workshop about textile waste was held from June 12-13, 2018 at Óbuda University. The event was organized by INNOVATEX Co. and the Sándor Rejtő Faculty of Light Industry and Environmental Protection in the framework of the ENTeR project. The 2-day workshop was addressed to policy makers,

stakeholders, experts, companies, researchers and designers, who are interested in the circular economy and waste reduction in the textile industry. The workshop was a great mixture of the different approaches of the waste management, combining lectures of circular economy experts, eco-designers, textile researchers and companies.

Visit to the textile company - Dywilan S.A.



ENTeR Project Partners visited the textile company - Dywilan S.A. in Lodz, Poland. Mr Jacek Ejtaszewski - Production Manager, referred to a history of the carpet production traditions in former state-owned Dywilan Company which nowadays is a small private enterprise. The Manager showed all production facilities – machines producing traditional carpets and the machines for artificial grass production.

He pointed out the problems with waste management - diluted glues, dust (short fibres after shearing process) and textile cutting waste. For all foreign partners it was a first contact with company producing carpets. Especially interesting was a production line of woven artificial grass/

Germany – Site Visit

Within the INTERREG Central Europe project ENTeR 15 project partners coming from 4 European countries were visiting the Saxon Textile Research Institute (STFI) in Chemnitz (DE) on May 29 and 30, 2018. The first day was to learn more about the recycling of textile waste material. A presentation on „Production and processing of reclaimed fibres – technologies and technical implementation” was given accompanied by a visit of the technical facilities at STFI to show in practice how textile production waste can be processed. The second day was dedicated to a site visit of company SOEX Textil-Recycling GmbH in Bitterfeld-Wolfen (DE) where textile recycling of worn out clothing has been done since 1999.

Per year, about 11,000 t of used textiles are collected, sorted, prepared for a re-re-utilisation or teared into reclaimed fibres which are re-used as raw material for instance in the automotive industry. The project partners could get a complete overview on the recycling process of used textiles.



Hungary – International conference

INNOVATEX participated on the Global Sustainable Fashion Week 2018 – Budapest and gave a presentation about ENTeR, more specifically about the state of waste management in the textile industry of Hungary. Participants and presenters were all around the world. The main topics were fashion and textile industry.



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One year with the ENTeR

The recycling of textile materials towards the circular economy

During the last year of work, the collaboration of the ENTeR project worked and shared the know-how in order to facilitate and support the recycling and reuse of textile waste.

A main objective was to prepare and manage two days of "site visits" - five one in each country - and, at the same time, select stakeholders and industrial pilot cases to share, even through workshops, the recycling management of textile waste, the main regulations in force for waste and potential actions for the implementation of the circular economy.

During the five visits to the site, pilot industrial cases and experiences of research centers, universities, NGOs, consultancies and textile companies were presented to an international audience.

While, Italian site visit, the advisory body called "Interregional Advisory Board" (IAB) met to define the strategic agenda.

The strategic agenda on the management and recycling of textile waste is a tool that can provide a common vision and set objectives and priorities in a medium and long-term perspective.



Therefore, the aims set during the first IAB meeting were:

- To gather the individual point of view of the members of the IAB in the Strategic Agenda;
- Facilitate the discussion and integration of the different visions with the aim of developing a common background.

Parallel to the activities for the definition of the most appropriate ways to support textiles and clothing companies, the "Material Match Making Platform" M3P platform was released. The platform was developed in a Life+ project and was made available by CENTROCOT to the partners of the ENTeR project.

The platform must contain the characteristic data (mechanical, chemical and ecological characteristics and performances) of all materials / waste produced by textile companies.

Thanks to site visits, workshops, the Interregional Advisory Board and the M3P platform, the ENTeR project was able to experiment and start to define new ways to help textile and apparel companies in the development and innovation of products and processes in view of the circular economy.



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