

ENTeR

TAKING COOPERATION FORWARD

Sustainable textile and leather forum Budapest, 03-Dec-2018

ENTeR project - Mid-Term Review

INNOVATEXT Zrt. - Tamás Krain project manager

STRATEGIC AGENDA



1. Strategic Agenda

2. Hugarian textile industry

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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.



ENTER 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.

STRATEGIC AGENDA



Strategic Agenda ENTER

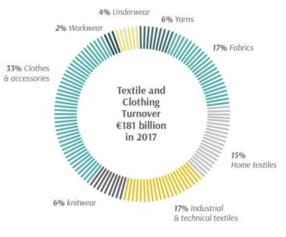
The strategy has been jointly defined on the basis of problems which are relevant for the participating regions, providing a common vision and setting objectives and priorities in a mid- to long-term perspective, with involvement of relevant stakeholders.

EU TEXTILE AND CLOTHING INDUSTRY

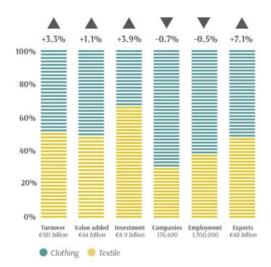


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Breakdown of EU production by sub-sectors 1.7 million workers 4% Underwear 6% Yarns 2% Workwear 7% Fabrics 176.400 companies 33% Clothes & accessories Textile and 181 billion € Clothing Turnover



The EU Textile and Clothing sector in 2017



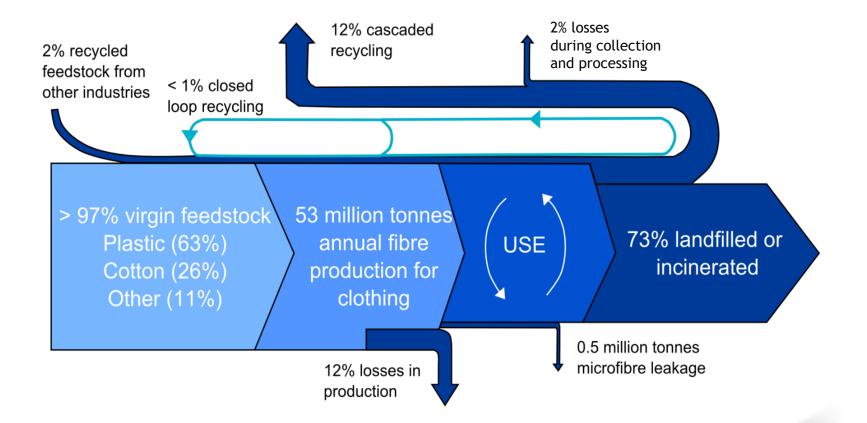
SOURCE: EURATEX BASED ON EUROSTAT

INDUSTRY AT A GLANCE

EURATEX: European Textiles and Fashion: Facts & Figures

CLOTHING: GLOBAL MATERIAL FLOWS





J. Conca. Making climate change fashionable - The garment industry takes on global warming

METHODOLOGY AND LINES OF ACTIONS



Methodology

The elaboration of the SA was done in two phases, the desk phase and the field phase.

Desk Phase:

State of the art review of textile waste management and recycling in each partner region.

Field Phase:

Stakeholders (companies, public authority) were interviewed in the individual regions.



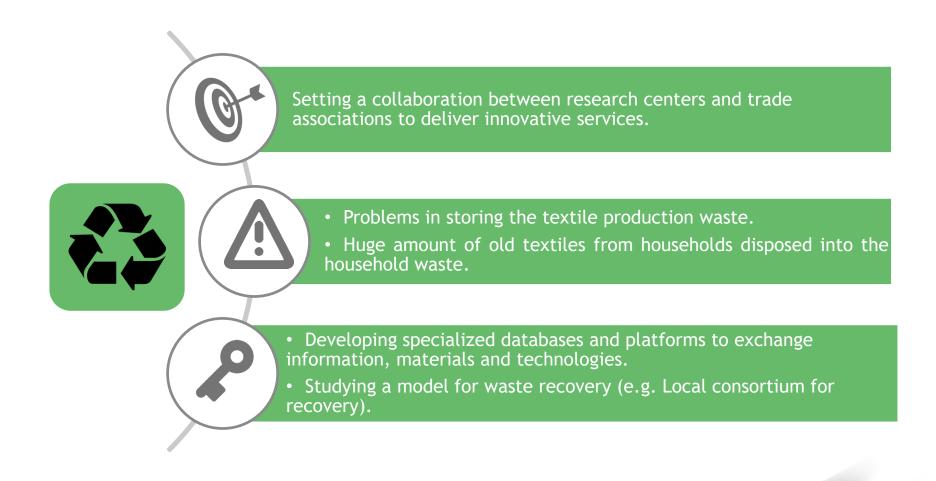
LEGAL AND POLICIES AREA





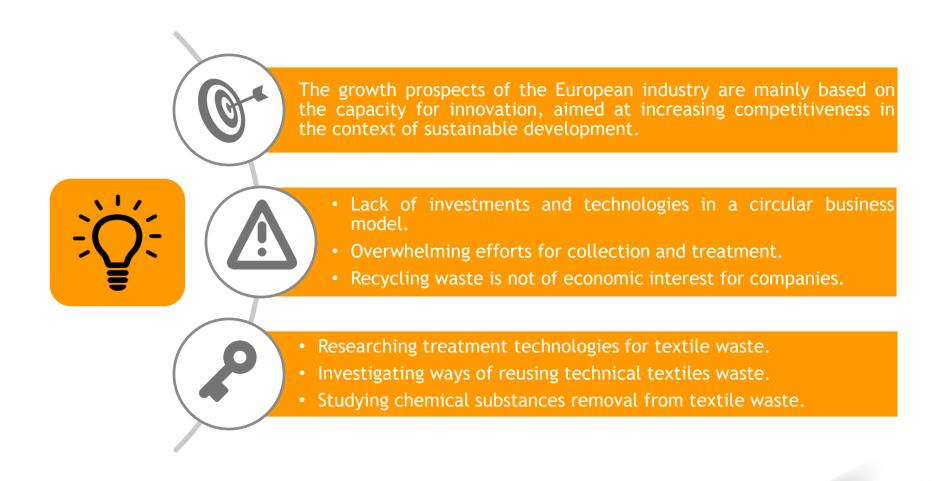
WASTE MANAGEMENT





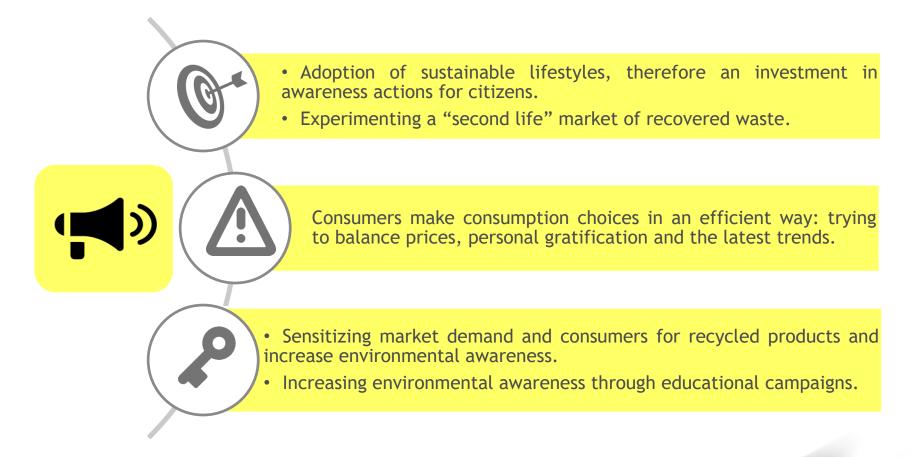
RESEARCH AND TECHNOLOGIES





COMMUNICATION





EDUCATION



 To bring out the training needs of companies and the research world, identifying the conditions that favour the implementation of circular models.

• Ensuring that the textile sector has access to the right technical skills.

The loss of skills because of an ageing workforce and the difficulty to find enough young professionals qualified in the new textile technologies.

• Training professional figures to tackle Circular Economy challenges.

 Supporting education programs for textiles promoting links between universities, technological institutes and firms.

 Facilitating the transfer of know-how from the old generation to young textile workers.

CONCLUSIONS





An online platform connecting companies offering waste and those requesting raw materials.

Five pilot cases to demonstrate that a collaboration among companies, associations, and technological centers could support innovation and competitiveness of the textile sector.

Five courses to provide highly qualified skills in order to face innovation challenges coming from a sustainable production process.

A *Virtual Center* among the project technology partners to offer wider services and solutions to resource efficiency and to strengthen regional innovation capacity.

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OVERVIEW OF HUNGARIAN TEXTILE INDUSTRY



- The sector is largely made up of small- and medium-size enterprises (SME).
- The number of registered enterprises approaches 6300*, although it is true to say that the number of functioning businesses is somewhat smaller than this.
- The sector currently employs around 32 000* people (companies with more than 10 employees), the vast majority being female labour.





*sources: http://www.mksz.org/hu/textil-ruhaipar

WASTE FROM T/C INDUSTRY IN HUNGARY



- No company form T/C industry in the top 100 waste producer
- NACE 13 Waste form manufacture of textile in 2016: 6625 t
- NACE 14 Waste form manufacture of wearing apparel in 2016: 1460 t

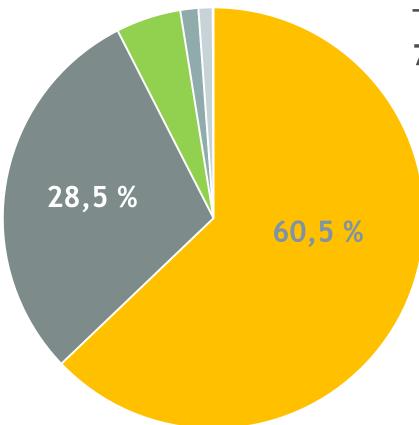


*source web.okir.hu/en/tart/index/86/Queries

TEXTILE WASTE- HU



• 60,5 % from wastes from processed textile fibres (040222)



Total amount of textile waste: **7661 t**

wastes from:

- 040222: processed textile fiber
- 040209: composite materials
- 040219: sludge
- 040220: other sludge
- 040221: unprocessed textile fiber
- 040299: wastes not otherwise specified
- 040210: organic matter from natural products

*source web.okir.hu/en/tart/index/86/Queries

COMPANIES FOR TEXTILE RECYLING - HU



Companies processing/ recycling / reusing and selling recycled products from textile waste:

- TEMAFORG Zrt.
- TESA Kft., around 3000 t/year

Companies operating containers for sorted collecting of worn-clothes and textiles:

- Textrade Kft. retail company: around 40000 t/year
- ReFoMix Nonprofit Közhasznú Kft.
- Easyget Kft. (importing and selling used clothes from UK)
- Rakoczi Kft importing and selling used cloth from UK

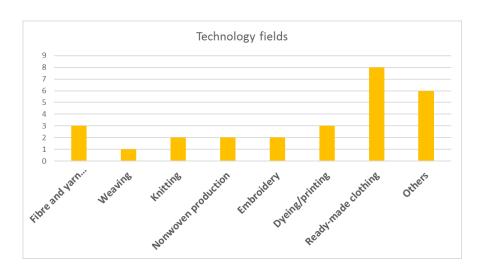


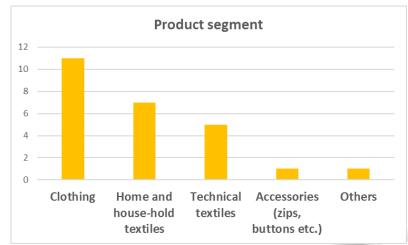




SURVEY ON STATE OF ART ON TEXTILE WASTE MANAGEMENT IN HUNGARIAN COMPANIES

- CENTRAL EUROPE
- face-to-face interviews and site visits, questionnaire survey
- questionnaire sent to 40 companies
- results feedback from 16 companies (SME)
 - textile / technical textile producers
 - clothing producers
 - textile waste processors/users









SWOT analysis - results of the survey

- leading position in HU textile industry sector ready made clothing
- bigger companies from this sector reported strong interest in finding the solution for their waste
- recycling and reuse of coated, laminated, composites etc., small quantities very difficult
- many opportunities for innovations but also many risks (reuse may be difficult with respect to technical character of this waste)

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SWOT ANALYSIS - RESULTS OF THE SURVEY

- companies reported:
 - usually high intrest to find recycling possibilities for their textile waste
 - technological / technical solution for recovery not available or too much efforts needed = reason for not recovering
 - no technological / technical solution available
 - regular waste generation
 - offering waste via a recycling exchange platform
 - need for information and education in the field of textile recycling high or very high



THANK YOU FOR YOUR ATTENTION!





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