

WP T2 INNOVATION ON TEXTILE WASTE MANAGEMENT-

ACTIVITY A.T2.2 TEXTILE WASTE DATABASE

Deliverable D.T2.2.2

Textile waste database

Version 2

Responsible partner:

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PP3 Pannon Business Network Association (PBN)

(Hungary)





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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.



1. Introduction

The waste database was planned to be a key output of the “ENTeR” project. The partnership involved multiple textile-industry-related companies.

The on-line platform “M3P” is a web-based tool, developed in open-source language, based on a database, to help the material match making between the companies offering “waste” and those requesting raw materials. It will be accessible from everywhere, companies can collaborate each other, both in partner/CE regions and outside. The database contains characteristic data (mechanical, chemical and ecological characteristics and performance) of all materials/waste produced by the textile companies.

Involved companies:

	# WASTE	# Companies
TOTAL	545	259

Companies registered in M3P Platform:

	# WASTE	# Companies
TOTAL	183	101

2. Methods used for the construction of the textile database

The partners initially involved the companies for the various activities (e.g. questionnaires, site visits, surveys, etc.), verifying at the same time interest and applicability to an online tool for sharing waste.

This led to the collection of various off-line information relating to companies and waste.

Subsequently, companies were invited to register on the M3P Platform (not compulsory and free of charge). Many companies agreed and used the Platform, while several others did not registered them selves, mainly due to lack of time.

1. Off-line textile waste database

Germany:

Objective of the data collection has been the identification of companies from the Saxon textile and clothing sector generating different types of production waste followed by the collection of information on composition and quality of waste as well as the quantity (waste streams). The



survey focused on production residues coming from production processes, such as weaving, knitting, finishing, production of nonwovens and technical textiles.

The companies were selected from:

1. Interviews/Questionnaires carried out/completed within work package WP T1 “Textile Waste & Recycling”/A.T.1.1 “State of the Art Textile Waste Management and Recycling”,
2. The stakeholder group known from joint R&D projects,
3. The stakeholder group known from special events organised by STFI (for instance colloquium “Recycling for textiles”).

STFI collected the data of 10 companies including 20 wastes. After mapping the companies, STFI sent e-mails to all selected SMEs. After a short presentation of the database, the companies were asked to register and include their data/wastes by themselves into the platform or to send their permission that the data input into the platform can be done by STFI.

Unfortunately, the companies did not use the chance to do an entry. A feedback has been asked for. The reasons can be seen in the following issues:

- A) The registration procedure is quite complicated and not self-explaining.
- B) The same is mentioned for the handling of the platform which is not self-explaining, too.
- C) The companies cannot find relevance for their own company. For instance, the waste type is displayed but no provenience of the waste. This makes it difficult for the companies to assess the benefit of asking for further information.
- D) Connected to the GDPR we asked all companies for the permission that STFI adds their data into the platform. Unfortunately, we did not get the permission of the companies to use the data for the Waste Database and the M3P platform, respectively. Therefore, an input by STFI is not possible due to the missing permissions.

Italy:

The Italian part created an offline database and below we explain the work done.

The ENTeR project has studied - through research and intervention actions - the recycling and reuse of textile waste, in order to support companies in the sector, safeguard raw materials and prevent the consumption of non-renewable resources.

Among the different objectives of the project there is also the mapping of industrial waste.

In collaboration with SMI, Sistema Moda Italia - Textile and Fashion Federation, in this research this mapping was mainly addressed to SMI member companies.

The survey focused on production residues (pre-consumer waste) resulting from all types of businesses (combing, spinning, weaving, finishing, packaging).

The aim of the research was to identify industrial waste from companies in the textile-clothing sector in quantity, quality and production location.

The research was conducted by the Textile Cotton and Clothing Spa Center (Centrocot), at the request of SMI, Sistema Moda Italia - Federation of Textiles and Fashion. The territorial



associations of Confindustria collaborated in the research with a strong presence of industries in the sector, in particular: Confindustria Como, UIB - Unione Industriale Biellese, UNIVA - Union of Industrialists of the Province of Varese.

The survey was conducted through the administration of a questionnaire, developed by the Textile, Cotton and Clothing Center and previously tested on a sample of companies. The questionnaire was sent by SMI directly to all associated companies (number: 434) and sent to the territorial associations of Confindustria to promote it among their associated companies. The questionnaires were collected in the period October - December 2019.

Czech:

INOTEX and ČTPT focused their effort together on the same target group of companies. To map the industrial textile waste streams in Czech Republic, the companies were contacted via questionnaire (Annex 2) during the period January - April 2018. Both partners encouraged the companies to respond to questionnaires during the events organized by ČTPT (workshops, General Assembly of ČTPT)

The target group comprised of 75 companies (textile and technical textile producers, clothing producers and textile waste processors and users). In addition to this, the questionnaire was also sent via the Laundry and Drycleaners Association of the Czech Republic to 27 laundries offering the rental service of the laundry.

The survey aimed to map the type of the industrial textile waste generated or processed by contacted companies (material composition, physical form, annual volume) and their management depending on the production profile of the company.

As a feedback, we collected 22 questionnaires with answers: 8 from technical textiles manufacturers, 8 from manufacturers of other textile (fabrics for clothing and/or furniture, fibers), 1 from clothing company (PPE manufacturer), 1 from company operating the separated collection of end-of-life textiles, 2 from companies processing or using textile waste, 1 from company using recycled PET bottles to produce PES fibers and 1 from commercial laundry.

The information collected via questionnaires were provided to responsible ENTeR partners for further processing in relevant deliverables.

Hungary:

The Hungarian partners tried to identify the related textile and clothing sector by questionnaires. The survey focused on production residues coming from production processes, such as weaving, knitting and technical textiles, etc.

The companies were selected from:

- I. Interviews/Questionnaires carried out/completed within work package WP T1 “Textile Waste & Recycling”/A.T.1.1 “State of the Art Textile Waste Management and Recycling”,
- II. Stakeholder groups

The two Hungarian partners successfully collected the data of 11 companies with their wastes. After the mapping, the partners started to involve the companies to use the M3P platform and update their information. Unfortunately, due to their respective GDPR rights and other below mentioned reasons they didn't want to share their information.



- A) The registration procedure is complicated and not self-explaining.
- B) Companies had language difficulties (the platform wasn't available in Hungarian language)
- C) Using the platform is difficult, takes too much time
- D) GDPR issues

Poland:

IW and PIOT worked together on the same target group of textile companies. To map industrial textile waste streams in Poland, companies were involved via questionnaire (Annex 4). Both partners encouraged companies to answer the questionnaire in order to have textile companies and to register the waste produced by them.

The Polish partners also selected the companies, to which they submitted the questionnaire for the construction of the database, among those encountered in past activities such as:

- Interviews / Questionnaires carried out / completed within work package WP T1 "Textile Waste & Recycling" / A.T.1.1 "State of the Art Textile Waste Management and Recycling",
- Stakeholder groups

In particular, the Polish companies involved are 20, while the registered waste are: 54.

After completing the questionnaire (Annex 4), the two partners worked on the M3P platform. Polish partners and companies were involved in the registration and use phases of the M3P platform. All Polish companies involved in the construction of the tool (textile waste database) have decided to register and use the M3P platform.

2. Online textile waste database (M3P Platform)

The M3P Platform, based on a waste database, allows to enhance the use of material resources, acting as material match making system to support to find a better use of waste.

In this context, the partners worked by designing a database that would tag the specifications and characteristics of the waste in order to facilitate the automatic processing of Material Match.

In fact, the database contains characteristic data (mechanical, chemical and ecological characteristics and performances) of all materials / waste produced by textile companies.



3. Textile waste database

1. Hungary- List of companies and waste

PROJECT partner	COMPANY	WASTE_NAME	QUANTITY (in tonnes)	Frequency
ENTeR - PBN	Biotextima Kft.		95.0	
ENTeR - PBN	Hartjes Kft.	adhesive can	-	occasional
ENTeR - PBN	Orto a Kft.	adhesive can	-	occasional
ENTeR - PBN	Orto a Kft.	Tanned leather waste	9,876.0	occasional
ENTeR - PBN	am-LAB Hungary	Waste contaminated with hazardous substances	29,347.0	occasional
ENTeR - PBN	am-LAB Hungary	Plastic waste - filament	15,947.0	occasional
ENTeR - PBN	am-LAB Hungary	Paper, cardboard and cardboard packaging waste	309.0	occasional
ENTeR - PBN	am-LAB Hungary	Electronic waste	721.0	occasional
ENTeR - PBN	am-LAB Hungary	Wax waste	1,061.0	occasional
ENTeR - PBN	am-LAB Hungary	Plastic packaging waste	7,325.0	occasional
ENTeR - PBN	am-LAB Hungary	Halogen-free solvent mixture	-	occasional
ENTeR - INNOVATEXT	Ladylon Kft	fiber - PAN	0.5	annual
ENTeR - INNOVATEXT	Ladylon Kft	fiber - PES	0.5	annual
ENTeR - INNOVATEXT	Ladylon Kft	yarns/twisted yarns - PAN	0.7	annual
ENTeR - INNOVATEXT	Ladylon Kft	yarns/twisted yarns - PES	0.7	annual
ENTeR - INNOVATEXT	MEZ Crafts Hungary Kft.	mixed yarn	10.0	annual
ENTeR - INNOVATEXT	MEZ Crafts Hungary Kft.	defective products	3.0	annual
ENTeR - INNOVATEXT	MEZ Crafts Hungary Kft.	textile fabric	20.0	annual
ENTeR - INNOVATEXT	Albertfalvi Cernázó Kft.	fiber - PAN	13.5	annual
ENTeR - INNOVATEXT	Albertfalvi Cernázó Kft.	fiber - PES	13,5	annual
ENTeR - INNOVATEXT	Unicorn Work	mixed textile fabric	5.0	annual
ENTeR - INNOVATEXT	Unicorn Work	mixed cutting waste	10.0	annual
ENTeR - INNOVATEXT	Multifelt Factory	cutting waste	1.5	annual
ENTeR - INNOVATEXT	Julius-K9	cutting waste	84.0	annual
ENTeR - INNOVATEXT	Temaforg Kunszentmiklós Kft	cutting waste	202.0	annual
ENTeR - INNOVATEXT	Sinka és Társa Kft	textile fabric	1.5	annual
ENTeR - INNOVATEXT	Sinka és Társa Kft	pieces of textile fabrics	0.5	annual
ENTeR - INNOVATEXT	Sinka és Társa Kft	cutting waste	0.1	annual



ENTeR - INNOVATEXT	Sinka és Társa Kft	defective products	1.5	annual
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2. Germany- List of companies and waste

PROJECT	COMPANY	WASTE_NAME	QUANTITY (in tonnes)	Frequency
ENTeR - STFI	Knitting Company		-	
ENTeR - STFI	Weaving mill		-	
ENTeR - STFI	Vowalon Beschichtung GmbH		-	
ENTeR - S!T	FIBER-TECH Products GmbH	fibre mat	0.2	annual
ENTeR - S!T	dretex Textil GmbH	textile cuttings white	3.3	annual
ENTeR - S!T	dretex Textil GmbH	textile cuttings colored	4.1	annual
ENTeR - S!T	Fiber-Tech Products GmbH	glas fibre fabric	0.2	annual
ENTeR - S!T	Fiber-Tech Products GmbH	carbon fibre fabric	0.03	annual
ENTeR - S!T	Grassy Produktions GmbH	cutting residues of knitted fabrics	20.0	annual
ENTeR - S!T	Grassy Produktions GmbH	quilting fleece cuttings	20.0	annual
ENTeR - S!T	Embros GmbH	polyester nonwoven pieces	0.3	annual
ENTeR - S!T	Embros GmbH	aramid nonwoven pieces	0.2	annual
ENTeR - S!T	Embros GmbH	glass fibre fabric	0.2	annual
ENTeR - S!T	Embros GmbH	Glass fibre fabric with aluminium foil	0.2	annual
ENTeR - S!T	Alpha Sigma GmbH	Aramid recycle	125.0	annual
ENTeR - S!T	Alpha Sigma GmbH	PE nonwoven	0.5	annual
ENTeR - S!T	TFP Technology GmbH	glass fibre fabric	0.3	annual
ENTeR - S!T	TFP Technology GmbH	glass nonwoven cuttings	0.3	annual
ENTeR - S!T	Otto Dotzauer KG	fabric remnants	0.1	annual
ENTeR - S!T	Otto Dotzauer KG	yarn remnants	0.3	annual
ENTeR - S!T	Otto Dotzauer KG	defect embroideries	0.04	annual

3. Czech Republic- List of companies and waste

PROJECT	COMPANY	WASTE_NAME	QUANTITY (in tonnes)	Frequency
ENTeR - INOTEX	Adient Strakonice s.r.o.	yarns	19.0	annual
ENTeR - INOTEX	Adient Strakonice s.r.o.	pieces of fabrics	30.0	annual



ENTeR - INOTEX	Adient Strakonice s.r.o.	selvedges	50.0	annual
ENTeR - INOTEX	Adient Strakonice s.r.o.	cuttings	26.0	annual
ENTeR - INOTEX	Adient Strakonice s.r.o.	defective products (PES fabrics with PU coatings) - for disposal - for internal reuse	31.0 268.0	annual annual
ENTeR - INOTEX	BARTON-textil a. s.	yarns	1.5	annual
ENTeR - INOTEX	BARTON-textil a. s.	selvedges and pieces of fabrics	60.0	annual
ENTeR - INOTEX	BN International s.r.o.	pieces of coated or laminated fabrics	300.0	annual
ENTeR - INOTEX	BN International s.r.o.	selvedges of coated or laminated fabrics	200.0	annual
ENTeR - INOTEX	Broumov Diakony, social cooperative	outworn clothing	6.0	annual
ENTeR - INOTEX	CLINITEX s.r.o.	pieces of fabrics	18.0	annual
ENTeR - INOTEX	Dekora-Jeníček a.s.	fibres - fluff from manufacturing of textiles	1.4	annual
ENTeR - INOTEX	Dekora-Jeníček a.s.	yarns	2.0	annual
ENTeR - INOTEX	Dekora-Jeníček a.s.	pieces of fabrics	4.0	annual
ENTeR - INOTEX	Dekora-Jeníček a.s.	selvedges	6.0	annual
ENTeR - INOTEX	Glanzstoff - Bohemia s.r.o.	fibers and yarns	70.0	annual
ENTeR - INOTEX	GRUND a.s.	fibres	3.0	annual
ENTeR - INOTEX	GRUND a.s.	yarns	8.0	annual
ENTeR - INOTEX	GRUND a.s.	selvedges (yarns PAN, PES, cotton quilted into PP textile netex)	5.0	annual
ENTeR - INOTEX	GRUND a.s.	selvedges (yarns quilted into PP textile with SBR latex back coating)	20.0	annual
ENTeR - INOTEX	HEDVA a.s.	selvedges	8.0	annual
ENTeR - INOTEX	HEDVA a.s.	cuttings	5.0	annual
ENTeR - INOTEX	CHRISTOF, spol. s r.o.	end-of-life laundry	3.0	annual
ENTeR - INOTEX	CHLUM - TEX, spol. s r.o.		-	
ENTeR - INOTEX	Intercolor a.s.	pieces and cuttings of fabrics - monofraction, blended or with coatings	12.7	annual
ENTeR - INOTEX	Mitop, a.s.	selvedges	33.0	annual
ENTeR - INOTEX	Nejdecká česárna vlny, a.s.	fibers - waste from carding	110.0	annual
ENTeR - INOTEX	Nejdecká česárna vlny, a.s.	fibres	1.9	annual
ENTeR - INOTEX	SILK & PROGRESS, spol. s r.o.	pieces of fabrics	6.0	annual
ENTeR - INOTEX	STAP, a.s.		-	
ENTeR - INOTEX	STERED® PR Krajné, s.r.o.	<i>Technology:</i>	-	



		Patented technology for processing of textile waste from EOL cars		
ENTeR - INOTEX	SVITAP J.H.J. spol. s r.o.	selvedges	86.7	annual
ENTeR - INOTEX	Toray Textiles Central Europe s.r.o.	fibres (mixed)	158.0	annual
ENTeR - INOTEX	VEBA, textilní závody a.s.	fibres	20.0	annual
ENTeR - INOTEX	VEBA, textilní závody a.s.	yarns	100.0	annual
ENTeR - INOTEX	VEBA, textilní závody a.s.	Paper conical tubes from yarn supplies	0.5	weekly
ENTeR - INOTEX	VLNAP a.s.	fibres (mixed)	27.0	annual
ENTeR - INOTEX	VLNAP a.s.	yarns (mixed)	60.0	annual

4. Italy - List of companies and waste

PROJECT	COMPANY	WASTE_NAME	QUANTITY (in tonnes)	Frequency
ENTeR - IT & SMI	Caligaris Spa	Fibre: mischia intima	140.0	annual
ENTeR - IT & SMI	Caligaris Spa	Fibre: mischia intima	50.0	annual
ENTeR - IT & SMI	Caligaris Spa	Fibre: mischia intima	50	annual
ENTeR - IT & SMI	Caligaris Spa	Carta e cartone	10	annual
ENTeR - IT & SMI	Caligaris Spa	imballaggi di plastica	5	annual
ENTeR - IT & SMI	Caligaris Spa	imballaggi materiali misti	20	annual
ENTeR - IT & SMI	Rubelli Spa	Sfridi (Cimosse, ...): mix omogeneo	60,18	annual
ENTeR - IT & SMI	Rubelli Spa	Carta e cartone	4,04	annual
ENTeR - IT & SMI	Rubelli Spa	olio per motore (olio esausto)	0,19	annual
ENTeR - IT & SMI	Giorgio Armani Spa	Cartone, legno, films	32,74	annual
ENTeR - IT & SMI	Filatura di Trivero s.p.a	Fibre: in composizione singola e in mischia intima	0,5	annual
ENTeR - IT & SMI	Filatura di Trivero s.p.a	Fibre: in composizione singola e in mischia intima	11	annual
ENTeR - IT & SMI	Filatura di Trivero s.p.a	Solventi esausti	0,025	annual
ENTeR - IT & SMI	Filatura di Trivero s.p.a	Soluzioni acquose	0,1	annual
ENTeR - IT & SMI	Filatura di Trivero s.p.a	Stracci (100% cotone)	1,2	annual
ENTeR - IT & SMI	Filatura di Trivero s.p.a	Carta e cartone	6,8	annual
ENTeR - IT & SMI	Filatura di Trivero s.p.a	Imballaggio in materiale misto	6,3	annual
ENTeR - IT & SMI	Cotonella Spa	Sfridi (Cimosse, ...) e Ritagli	180	annual
ENTeR - IT & SMI	Cotonella Spa	Carta e cartone	110	annual
ENTeR - IT & SMI	Confezioni Silusi Srl	Sfridi (cimosse, etc.)	0,1	annual
ENTeR - IT & SMI	Calzificio Trever Spa	Sfridi (cimosse, etc.)	44.8	annual
ENTeR - IT & SMI	Calzificio Trever Spa	Soluzioni acquose	241.8	annual



ENTeR - IT & SMI	Calzificio Trever Spa	Carta e cartone	151.1	annual
ENTeR - IT & SMI	Candiani Spa	Fibre	248.3	annual
ENTeR - IT & SMI	Candiani Spa	Cere e grassi	2.8	annual
ENTeR - IT & SMI	Candiani Spa	Imballaggio in materiale misto	324.4	annual
ENTeR - IT & SMI	Candiani Spa	Imballaggi metallici - Rifiuto pericoloso	1.4	annual
ENTeR - IT & SMI	Candiani Spa	Imballaggi contenenti residue di sostanze pericolose	0.3	annual
ENTeR - IT & SMI	Candiani Spa	Stracci sporchi	1.1	annual
ENTeR - IT & SMI	Candiani Spa	Apparecchiature elettriche	0.7	annual
ENTeR - IT & SMI	Candiani Spa	Rifiuti biodegradabili	7.8	annual
ENTeR - IT & SMI	Candiani Spa	Fanghi	65.6	annual
ENTeR - IT & SMI	Candiani Spa	Altri oli per motore - Rifiuto pericoloso	1.0	annual
ENTeR - IT & SMI	Carvico Spa	Sfridi (cimosse, etc.): Poliammine, poliestere, elastomero	391.4	annual
ENTeR - IT & SMI	Carvico Spa	Solventi esausti	166.1	annual
ENTeR - IT & SMI	Tessuti Artistici Fortuny Srl	Tessuti: cotone	0.05	annual
ENTeR - IT & SMI	Tessuti Artistici Fortuny Srl	Fanghi	1,0	annual
ENTeR - IT & SMI	Tessuti Artistici Fortuny Srl	Adesivi e sigillanti di scarto	0.7	annual
ENTeR - IT & SMI	ROSSI LORENZO E FIGLI Srl	Tessuti: composizione mista 77%CO 2%LI 2%WV 2%SE 15%PA 2%EA	5.2	annual
ENTeR - IT & SMI	ROSSI LORENZO E FIGLI Srl	Soluzioni acquose (Morchie da abbattitore fumi)	0.2	annual
ENTeR - IT & SMI	ROSSI LORENZO E FIGLI Srl	Fanghi	62.0	annual
ENTeR - IT & SMI	ROSSI LORENZO E FIGLI Srl	Olio esausto	0.3	annual
ENTeR - IT & SMI	ROSSI LORENZO E FIGLI Srl	Fusti di plastica	1.4	annual
ENTeR - IT & SMI	ROSSI LORENZO E FIGLI Srl	FERRO da Rottami	0.4	annual
ENTeR - IT & SMI	ROSSI LORENZO E FIGLI Srl	Stracci	5.2	annual
ENTeR - IT & SMI	Tintoria Finissaggio di Luisago	Sfridi: Mix eterogeneo	22.0	annual
ENTeR - IT & SMI	Tintoria Finissaggio di Luisago	Carta e cartone	45.5	annual
ENTeR - IT & SMI	NASTRIFICIO VICTOR SPA	Ritagli: composizione mista	51.76	annual
ENTeR - IT & SMI	NASTRIFICIO VICTOR SPA	Prodotti difettosi	4,2	annual
ENTeR - IT & SMI	NASTRIFICIO VICTOR SPA	Soluzioni acquose	8.8	annual
ENTeR - IT & SMI	NASTRIFICIO VICTOR SPA	Carta e cartone	15.8	annual
ENTeR - IT & SMI	NASTRIFICIO VICTOR SPA	Legno	3.0	annual



ENTeR - IT & SMI	Herno Spa	Tessuti: CO,WO;PA,PES	0.2	annual
ENTeR - IT & SMI	Herno Spa	Ritagli	5.5	annual
ENTeR - IT & SMI	Herno Spa	Carta e cartone	1.5	annual
ENTeR - IT & SMI	Herno Spa	Lamine / Films	8.8	annual
ENTeR - IT & SMI	DE MARTINI BAYART & TEXTIFIBRA S.P.A	Fibre	15.0	annual
ENTeR - IT & SMI	DE MARTINI BAYART & TEXTIFIBRA S.P.A	Altri scarti	24.0	annual
ENTeR - IT & SMI	CANDEGGIO LA BRIANTEA	Fanghi	11.8	annual
ENTeR - IT & SMI	CANDEGGIO LA BRIANTEA	Carta e cartone	18.5	annual
ENTeR - IT & SMI	CANDEGGIO LA BRIANTEA	Legno	30.6	annual
ENTeR - IT & SMI	CANDEGGIO LA BRIANTEA	imballaggi materiali misti	47.0	annual
ENTeR - IT & SMI	Tintoria F.lli Rosina S.p.A	Sfridi: Mix eterogeneo	29.0	annual
ENTeR - IT & SMI	Tintoria F.lli Rosina S.p.A	Soluzioni acquose	0.9	annual
ENTeR - IT & SMI	Tintoria F.lli Rosina S.p.A	Fanghi	12.2	annual
ENTeR - IT & SMI	Filatura CB S.p.A	Soluzioni acquose	0.1	annual
ENTeR - IT & SMI	Filatura CB S.p.A	Rifiuti organici contenenti sostanze pericolose	1.0	annual
ENTeR - IT & SMI	CALZIFICIO FAP SPA	Fibre	128.0	annual
ENTeR - IT & SMI	CALZIFICIO FAP SPA	Solventi esausti	1.7	annual
ENTeR - IT & SMI	CALZIFICIO FAP SPA	Prodotti chimici	6.6	annual
ENTeR - IT & SMI	CALZIFICIO FAP SPA	Fanghi	510.0	annual
ENTeR - IT & SMI	CALZIFICIO FAP SPA	Filtri olio	0.3	annual
ENTeR - IT & SMI	CALZIFICIO FAP SPA	Carta e cartone	203.6	annual
ENTeR - IT & SMI	De Martini spa	Altri scarti	65.0	annual
ENTeR - IT & SMI	De Martini spa	Carta e cartone	14.0	annual
ENTeR - IT & SMI	De Martini spa	Legno	15.0	annual
ENTeR - IT & SMI	Manifattura GOLF	Carta e cartone	24.2	annual
ENTeR - IT & SMI	Manifattura GOLF	imballaggi materiali misti	14.5	annual
ENTeR - IT & SMI	Filatura ASTRO	Fibre	411.4	annual
ENTeR - IT & SMI	Filatura ASTRO	Altri scarti: Mix eterogenei	24.2	annual
ENTeR - IT & SMI	Filatura ASTRO	Carta e cartone	4.8	annual
ENTeR - IT & SMI	Filatura ASTRO	Legno	0.8	annual
ENTeR - IT & SMI	Filatura ASTRO	Imballaggi metallici	17.2	annual
ENTeR - IT & SMI	Iniziative industriali	Filati: 80% lana + 20% diversi materiali	1.0	annual



ENTeR - IT & SMI	Iniziative industriali	Sfridi:80% lana + 15% cotone + 5% acrilico	5.0	annual
ENTeR - IT & SMI	Iniziative industriali	Altri scarti	6.0	annual
ENTeR - IT & SMI	Iniziative industriali	Carta e cartone	1.6	annual
ENTeR - IT & SMI	Iniziative industriali	Plastica	3.7	annual
ENTeR - IT & SMI	Pettinatura Lane di Romagnano Sesia spa	Fibre: WO, OTH	220.0	annual
ENTeR - IT & SMI	Pettinatura Lane di Romagnano Sesia spa	Fanghi	3,718.8	annual
ENTeR - IT & SMI	Pettinatura Lane di Romagnano Sesia spa	Carta e cartone	6.7	annual
ENTeR - IT & SMI	Pettinatura Lane di Romagnano Sesia spa	Legno	5.8	annual
ENTeR - IT & SMI	Pettinatura Lane di Romagnano Sesia spa	Imballaggi misti	42.8	annual
ENTeR - IT & SMI	Pettinatura Lane di Romagnano Sesia spa	Imballaggi in plastica	103.5	annual
ENTeR - IT & SMI	Pettinatura Lane di Romagnano Sesia spa	Imballaggi metallici	67.5	annual
ENTeR - IT & SMI	TONELLA	Sfridi	28.4	annual
ENTeR - IT & SMI	TONELLA	Carta e cartone	16.8	annual
ENTeR - IT & SMI	TONELLA	Fusti di plastica puliti	2.4	annual
ENTeR - IT & SMI	TINFOR S.r.l	Fanghi	4.0	annual
ENTeR - IT & SMI	TINFOR S.r.l	Carta e cartone	0.5	annual
ENTeR - IT & SMI	TINFOR S.r.l	Imballaggi in plastica	4.0	annual
ENTeR - IT & SMI	TINFOR S.r.l	Ferro e acciaio	0.3	annual
ENTeR - IT & SMI	Eurojersey	Tessuti: PA e PP msita	110.0	annual
ENTeR - IT & SMI	Eurojersey	Sfridi: mix eterogeneo	80.0	annual
ENTeR - IT & SMI	Albany International Italia s.r.l.	Ritagli: composizione mista	113.6	annual
ENTeR - IT & SMI	Albany International Italia s.r.l.	Legno	19.3	annual
ENTeR - IT & SMI	Albany International Italia s.r.l.	Ferro e acciaio	10.8	annual
ENTeR - IT & SMI	Albany International Italia s.r.l.	Olio + emulsione oleosa	0.5	annual
ENTeR - IT & SMI	Albany International Italia s.r.l.	Rifiuti liquidi acquosi (acqua di condensa compressori)	1.6	annual
ENTeR - IT & SMI	Albany International Italia s.r.l.	Dispositivi elettrici	0.1	annual
ENTeR - IT & SMI	FRAMIS ITALIA SPA	Solventi esausti	16.5	annual



ENTeR - IT & SMI	FRAMIS ITALIA SPA	Soluzioni acquose	561.6	annual
ENTeR - IT & SMI	FRAMIS ITALIA SPA	Prodotti chimici: resine poliuretatiche	25.0	annual
ENTeR - IT & SMI	FRAMIS ITALIA SPA	Carta e cartone	200.0	annual
ENTeR - IT & SMI	FRAMIS ITALIA SPA	Lamine/Films POLIURETANO	55.0	annual
ENTeR - IT & SMI	TESSITURA CARLO PAPIS SRL	FILATI, TESSUTI E SFRIDI	3.5	annual
ENTeR - IT & SMI	CLERICI TESSUTO & C. S.p.A.	Sfridi (cimosse)	5.0	annual
ENTeR - IT & SMI	CLERICI TESSUTO & C. S.p.A.	Carta e cartone	33.0	annual
ENTeR - IT & SMI	Reggiani Lanificio S.p.A.	Fibre: mischia intima	1.2	annual
ENTeR - IT & SMI	Reggiani Lanificio S.p.A.	Carta e cartone	19.0	annual
ENTeR - IT & SMI	Reggiani Lanificio S.p.A.	Palstica	3.5	annual
ENTeR - IT & SMI	Reggiani Lanificio S.p.A.	Olio esausto	0.5	annual
ENTeR - IT & SMI	Reggiani Lanificio S.p.A.	stracci unti	0.4	annual
ENTeR - IT & SMI	Tessitura Monti spa	Altri scarti: cascami	20.0	annual
ENTeR - IT & SMI	Tessitura Monti spa	Fanghi	38.0	annual
ENTeR - IT & SMI	Tessitura Monti spa	Carta e cartone	56.0	annual
ENTeR - IT & SMI	Tessitura Monti spa	Lamine/Films	13.0	annual
ENTeR - IT & SMI	Tessitura Monti spa	Legno	1.5	annual
ENTeR - IT & SMI	Filatura Rivetti S.r.l.	Fibre: mischia intima	130.0	annual
ENTeR - IT & SMI	Dorama Filatura Cardata S.r.l.	Fibre: mischia intima	14.7	annual
ENTeR - IT & SMI	Dorama Filatura Cardata S.r.l.	Carta e cartone	1.4	annual
ENTeR - IT & SMI	Dorama Filatura Cardata S.r.l.	Imballaggi ferro	3.6	annual
ENTeR - IT & SMI	Dorama Filatura Cardata S.r.l.	imballaggi di plastica	2.4	annual
ENTeR - IT & SMI	MARCHI & FILDI SPA	Fibre: mischia intima	159.0	annual
ENTeR - IT & SMI	ZEGNA Baruffa	Filati (singola)	34.0	annual
ENTeR - IT & SMI	ZEGNA Baruffa	Prodotti chimici	1.2	annual
ENTeR - IT & SMI	ZEGNA Baruffa	Fanghi	29.0	annual
ENTeR - IT & SMI	ZEGNA Baruffa	Carta e cartone	110.0	annual
ENTeR - IT & SMI	ZEGNA Baruffa	Legno	33.0	annual
ENTeR - IT & SMI	ARTEXBIELLA	Filati sottoprodotto (singola)	0.9	annual



ENTeR - IT & SMI	ARTEXBIELLA	Sfridi sottoprodotto (singola)	0.1	annual
ENTeR - IT & SMI	ARTEXBIELLA	Ritagli sottoprodotto (misti)	0.3	annual
ENTeR - IT & SMI	ARTEXBIELLA	Prodotti difettosi sottoprodotto (misti)	0.1	annual
ENTeR - IT & SMI	ARTEXBIELLA	Soluzioni acquose	0.1	annual
ENTeR - IT & SMI	ARTEXBIELLA	Prodotti chimici	0.02	annual
ENTeR - IT & SMI	ARTEXBIELLA	Carta e cartone	2.2	annual
ENTeR - IT & SMI	LVT - sede AVIS	Fibre (singola)	16.0	annual
ENTeR - IT & SMI	LVT - sede AVIS	Carta e cartone	13.0	annual
ENTeR - IT & SMI	LVT - sede GranBretagna	Fanghi	37.5	annual
ENTeR - IT & SMI	LVT - sede GranBretagna	Carta e cartone	24.0	annual
ENTeR - IT & SMI	CAMICERIA AGATEX SRL		-	annual
ENTeR - IT & SMI	Meierhofer	Carta e cartone	13.9	annual
ENTeR - IT & SMI	Meierhofer	Imballaggi misti	6.7	annual
ENTeR - IT & SMI	LANECARDATE SPA	Carta e cartone	13.2	annual
ENTeR - IT & SMI	LANECARDATE SPA	Imballaggi plastici	3.1	annual
ENTeR - IT & SMI	LANECARDATE SPA	Imballaggi metallici	0.4	annual
ENTeR - IT & SMI	SETERIA BIANCHI SRL	Sfridi: eterogenei	1.8	annual
ENTeR - IT & SMI	SETERIA BIANCHI SRL	Ritagli: eterogenei	0.8	annual
ENTeR - IT & SMI	SETERIA BIANCHI SRL	Coni in plastica	3.0	annual
ENTeR - IT & SMI	Staff internattion spa	Fibre, Filati	23.6	annual
ENTeR - IT & SMI	Staff internattion spa	Carta e cartone	33.4	annual
ENTeR - IT & SMI	Successori Reda S.p.A	Fibre composizione singola	7.8	annual
ENTeR - IT & SMI	Successori Reda S.p.A	Carta e cartone	13.7	annual
ENTeR - IT & SMI	Successori Reda S.p.A	Legno	4.1	annual
ENTeR - IT & SMI	Taroni spa	Filati (singola)	2.3	annual
ENTeR - IT & SMI	Taroni spa	Ritagli (singola)	6.8	annual
ENTeR - IT & SMI	Taroni spa	Altro: uniti a componenti non tessili (coni plastici)	4.1	annual
ENTeR - IT & SMI	Filatura Pettinata MELLO	Fibre (singola e mischia intima)	6.0	annual
ENTeR - IT & SMI	Filatura Pettinata MELLO	Filati (singola e mischia intima)	0.8	annual
ENTeR - IT & SMI	Filatura Pettinata MELLO	Carta e cartone	0.6	annual
ENTeR - IT & SMI	Filatura Pettinata MELLO	Lamine / Films	0.1	annual
ENTeR - IT & SMI	Gruppo Marzotto - BMT	Filati (singola)	37.0	annual
ENTeR - IT & SMI	Gruppo Marzotto - BMT	Tessuti (singola)	26.2	annual



ENTeR - IT & SMI	Gruppo Marzotto - BMT	Ritagli (singola)	4.9	annual
ENTeR - IT & SMI	Gruppo Marzotto - BMT	Prodotti difettosi	10.8	annual
ENTeR - IT & SMI	Gruppo Marzotto - BMT	Altri: polveri	50.0	annual
ENTeR - IT & SMI	Gruppo Marzotto - BMT	Fanghi	41.1	annual
ENTeR - IT & SMI	Gruppo Marzotto - BMT	Carta e cartone	121.2	annual
ENTeR - IT & SMI	Gruppo Marzotto - BMT	Lamine / Films	11.9	annual
ENTeR - IT & SMI	Gruppo Marzotto - BMT	Legno	15.2	annual
ENTeR - IT & SMI	Gruppo Marzotto - LCN	Fibre (singola): LI	5.0	annual
ENTeR - IT & SMI	Gruppo Marzotto - LCN	Carta e cartone	0.2	annual
ENTeR - IT & SMI	Gruppo Marzotto - LCN	Legno	2.0	annual
ENTeR - IT & SMI	Gruppo Marzotto - LCN	Imballaggi misti	10.0	annual
ENTeR - IT & SMI	Gruppo Marzotto - MLAB Tessuti Sondrio	Tessuti	85.1	annual
ENTeR - IT & SMI	Gruppo Marzotto - MLAB Tessuti Sondrio	Carta e cartone	50.1	annual
ENTeR - IT & SMI	Gruppo Marzotto - MLAB Tessuti Sondrio	Legno	20.1	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Fibre (singola e mischia intima)	20.7	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Filati (singola e mischia intima)	52.0	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Tessuti (singola e mischia intima)	13.2	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Sfridi e cimosse (singola e mischia intima)	65.0	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Ritagli (singola e mischia intima)	50.0	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Prodotti chimici	0.1	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Tinture e pigmenti	1.3	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Carta e cartone	94.9	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Legno	50.5	annual
ENTeR - IT & SMI	Gruppo Marzotto - MWM	Ferro e acciaio	49.7	annual
ENTeR - IT & SMI	Gruppo Marzotto - Ratti	Tessuti (singola e mischia intima)	88.7	annual
ENTeR - IT & SMI	Gruppo Marzotto - Ratti	Solventi esausti	1.9	annual



ENTeR - IT & SMI	Gruppo Marzotto - Ratti	Prodotti chimici	0.4	annual
ENTeR - IT & SMI	Gruppo Marzotto - Ratti	Fanghi	115.5	annual
ENTeR - IT & SMI	Gruppo Marzotto - Ratti	Altro: prodotti di finissaggio,...	1.1	annual
ENTeR - IT & SMI	Gruppo Marzotto - Ratti	Carta e cartone	121.3	annual
ENTeR - IT & SMI	Gruppo Marzotto - Ratti	Legno	30.3	annual
ENTeR - IT & SMI	Gruppo Marzotto - Ratti	Ferro e acciaio	80.0	annual
ENTeR - IT & SMI	Lanificio Ermenegildo Zegna	Fibre	41.0	annual
ENTeR - IT & SMI	Lanificio Ermenegildo Zegna	Soluzioni acquose	0.7	annual
ENTeR - IT & SMI	Lanificio Ermenegildo Zegna	Fanghi	39.5	annual
ENTeR - IT & SMI	Lanificio Ermenegildo Zegna	Carta e cartone	49.9	annual
ENTeR - IT & SMI	Lanificio Ermenegildo Zegna	Lamine / Films	0.6	annual
ENTeR - IT & SMI	Lanificio Ermenegildo Zegna	IMBALLAGGI MISTI	133.8	annual
ENTeR - IT & SMI	VITALE BARBERIS CANONICO	Fibre sottoprodotto (singola e mischia intima)	52.3	annual
ENTeR - IT & SMI	VITALE BARBERIS CANONICO	Filati sottoprodotto (singola e mischia intima)	141.4	annual
ENTeR - IT & SMI	VITALE BARBERIS CANONICO	Tessuti sottoprodotto (singola)	112.0	annual
ENTeR - IT & SMI	VITALE BARBERIS CANONICO	Ritagli sottoprodotto (singola)	43.2	annual
ENTeR - IT & SMI	VITALE BARBERIS CANONICO	ritagli	2.3	annual
ENTeR - IT & SMI	VITALE BARBERIS CANONICO	carta e cartone	51.6	annual
ENTeR - IT & SMI	VITALE BARBERIS CANONICO	Legno	6.3	annual
ENTeR - IT & SMI	VITALE BARBERIS CANONICO	Imballaggi in plastica	43.9	annual



ENTeR - IT & SMI	VITALE BARBERIS CANONICO	Imballaggi in materiali misti	189.0	annual
ENTeR - IT & SMI	GASPARE SIRONI SPA.	Tessuti: composizione mista CO, CMD, PES, CV	80.0	annual
ENTeR - IT & SMI	GASPARE SIRONI SPA.	Sfridi: CO	6.5	annual
ENTeR - IT & SMI	GASPARE SIRONI SPA.	Ritagli: CO PES	6.5	annual
ENTeR - IT & SMI	GASPARE SIRONI SPA.	Altri scarti (polveri da tessitura e garzatura):CO CMD CV PES	5.0	annual
ENTeR - IT & SMI	GASPARE SIRONI SPA.	Fanghi	650.0	annual
ENTeR - IT & SMI	GASPARE SIRONI SPA.	Carta e cartone	45.0	annual
ENTeR - IT & SMI	GASPARE SIRONI SPA.	Legno	20.0	annual
ENTeR - IT & SMI	GASPARE SIRONI SPA.	Altro: imballaggi in plastica (fusti e cisternette)	1.0	annual
ENTeR - IT & SMI	Edelweiss Srl	Fibre: mischia singola	320.7	annual
ENTeR - IT & SMI	Edelweiss Srl	Carta e cartone	20.0	annual
ENTeR - IT & SMI	Edelweiss Srl	Plastica	25.0	annual
ENTeR - IT & SMI	Pierre Paul Srl	Carta e cartone	0.01	annual
ENTeR - IT & SMI	Pierre Paul Srl	Altro: Scotch adesivo per scatoloni	0.01	annual
ENTeR - IT & SMI	Tessitura Molteni	Sfridi: COMPOSIZIONE SINGOLA PA-PL	37.2	annual
ENTeR - IT & SMI	Tessitura Molteni	Solventi esausti	0.7	annual
ENTeR - IT & SMI	Tessitura Molteni	Soluzioni acquose	3.6	annual
ENTeR - IT & SMI	Tessitura Molteni	Prodotti chimici	2.3	annual
ENTeR - IT & SMI	Tessitura Molteni	Fanghi	1.2	annual
ENTeR - IT & SMI	Tessitura Molteni	Carta e cartone	46.7	annual
ENTeR - IT & SMI	Tessitura Molteni	Altro	51.1	annual
ENTeR - IT & SMI	Tintoria Vago	Fanghi	0.2	annual
ENTeR - IT & SMI	Tintoria Vago	Carta e cartone	29.1	annual
ENTeR - IT & SMI	Tintoria Vago	imballaggi di plastica	4.5	annual
ENTeR - IT & SMI	Fratelli Vitali di Roberto	Filati: mischia intima	3.0	annual
ENTeR - IT & SMI	Fratelli Vitali di Roberto	Sfridi: mix eterogeneo	5.0	annual
ENTeR - IT & SMI	Fratelli Vitali di Roberto	Carta e cartone	10.0	annual
ENTeR - IT & SMI	Il Gufo spa	Carta e cartone	20.5	annual
ENTeR - IT & SMI	Il Gufo spa	Toner	0.1	annual
ENTeR - IT & SMI	Maris di fratelli mario &C	Fibre: mischia intima	25.2	annual
ENTeR - IT & SMI	Maris di fratelli mario &C	Solventi esausti	0.4	annual
ENTeR - IT & SMI	Maris di fratelli mario &C	Fanghi	0.02	annual
ENTeR - IT & SMI	Maris di fratelli mario &C	Carta e cartone	35.2	annual
ENTeR - IT & SMI	Maris di fratelli mario &C	Legno	6.6	annual



ENTeR - IT & SMI	Jersey Lomellina	Sfridi: poliestere, poliammide, elastomero, cotone	27.4	annual
ENTeR - IT & SMI	Pecco & Maliverno	Carta e cartone	12.5	annual
ENTeR - IT & SMI	Tintoria Butti	Sfridi: PES, CV , CA, CMO	101.4	annual
ENTeR - IT & SMI	Tintoria Butti	soluzioni acquose	1.0	annual
ENTeR - IT & SMI	Tintoria Butti	Altre emulsioni	3.4	annual
ENTeR - IT & SMI	Tintoria Butti	Carta e cartone	367.2	annual
ENTeR - IT & SMI	Tintoria Butti	Legno	8.4	annual
ENTeR - IT & SMI	TS Lambrugo	Ritagli: composizione singola (PA) e composizione mista spalmati (PES)	60.0	annual
ENTeR - IT & SMI	TS Lambrugo	Fanghi	37.6	annual
ENTeR - IT & SMI	TS Lambrugo	Altre emulsioni	1.8	annual
ENTeR - IT & SMI	TS Lambrugo	Carta e cartone	73.0	annual
ENTeR - IT & SMI	TS Lambrugo	Lamine / Films	6.2	annual
ENTeR - IT & SMI	TS Lambrugo	Legno	2.0	annual
ENTeR - IT & SMI	TS Lambrugo	Imballaggi in materiali misti	15.0	annual
ENTeR - IT & SMI	Pettinatura di Verrone srl	Fanghi	2,472.8	annual
ENTeR - IT & SMI	Pettinatura di Verrone srl	Cascame battuto di lana	39.5	annual
ENTeR - IT & SMI	Pettinatura di Verrone srl	Scopatura di cashmere	1.2	annual
ENTeR - IT & SMI	Pettinatura di Verrone srl	Altro: Terra da battitura	152.5	annual
ENTeR - IT & SMI	Pettinatura di Verrone srl	Carta e cartone	5.9	annual
ENTeR - IT & SMI	Pettinatura di Verrone srl	Reggette e Metallo	44.8	annual
ENTeR - IT & SMI	Pettinatura di Verrone srl	Legno	5.6	annual
ENTeR - IT & SMI	Pettinatura di Verrone srl	Plastica	45.0	annual
ENTeR - IT & SMI	SAATI SpA	Tessuti (PA = 15.000 kg/anno e PES = 55.000 kg/anno)	70.0	annual
ENTeR - IT & SMI	SAATI SpA	Sfridi (cimosse, ritagli e cartone pezze tessuto di scarto)	125.0	annual
ENTeR - IT & SMI	Torcitura della Valcuvia srl	Fibre composizione singola (CA, CV, PA, PES, PP)	10.5	annual
ENTeR - IT & SMI	Torcitura della Valcuvia srl	Carta e cartone	32.4	annual
ENTeR - IT & SMI	Torcitura della Valcuvia srl	Plastica	6.2	annual
ENTeR - IT & SMI	Allavelli Michele srl	Filati	18.9	annual
ENTeR - IT & SMI	Allavelli Michele srl	Legno	5.8	annual
ENTeR - IT & SMI	Allavelli Michele srl	Imballaggi in materiali misti	3.7	annual
ENTeR - IT & SMI	Wegal & Tricotel spa	Fibre	1.4	annual
ENTeR - IT & SMI	Wegal & Tricotel spa	Altro: olio motore	1.0	annual
ENTeR - IT & SMI	Filmar SPA	Filati: mischia singola (CO)	7.0	annual
ENTeR - IT & SMI	Cederna Fodere Spa Tintoria	Altri scarti: Testane	8.6	annual
ENTeR - IT & SMI	Cederna Fodere Spa Tintoria	Fanghi: Biologico	6.0	annual



ENTeR - IT & SMI	Cederna Fodere Spa Tintoria	Carta e cartone	3.4	annual
ENTeR - IT & SMI	Cederna Fodere Spa Tintoria	Imballaggi in materiali misti	6.8	annual
ENTeR - IT & SMI	Cederna Fodere Spa Tessitura	Sfridi	7.3	annual
ENTeR - IT & SMI	Cederna Fodere Spa Tessitura	Carta e cartone	12.0	annual
ENTeR - IT & SMI	Cederna Fodere Spa Tessitura	Imballaggi in materiali misti	4.1	annual
ENTeR - IT & SMI	Canali	Sfridi: WO/CO/LI/SE/WS	40.0	annual
ENTeR - IT & SMI	Canali	Ritagli: WO/CO/LI/SE/CV	4.0	annual
ENTeR - IT & SMI	Canali	Prodotti difettosi	2.3	annual
ENTeR - IT & SMI	Canali	Altri scarti	60.0	annual
ENTeR - IT & SMI	Tessitura Stamperia Luigi Verga s.p.a.	Sfridi (cimosse, etc.) ritagli da campionario/testane	43.0	annual
ENTeR - IT & SMI	Tessitura Stamperia Luigi Verga s.p.a.	Carta e cartone	45.0	annual
ENTeR - IT & SMI	Tessitura Stamperia Luigi Verga s.p.a.	Ferro/acciaio	10.1	annual
ENTeR - IT & SMI	Manifattura Colombo	Fibre	0.8	annual
ENTeR - IT & SMI	Manifattura Colombo	Tessuti	5.0	annual
ENTeR - IT & SMI	Manifattura Colombo	Prodotti difettosi	6.0	annual
ENTeR - IT & SMI	Manifattura Colombo	Altri scarti	0.5	annual
ENTeR - IT & SMI	CAMAC srl	Sfridi: 80% di cotone	10.0	annual
ENTeR - IT & SMI	Confindustria Como	Filati: composizione singola	0.2	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Composizione eterogenea	2.5	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli: Composizione eterogenea	0.5	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi: Composizione eterogenea	1.0	annual
ENTeR - IT & SMI	Confindustria Como	Altro	0.1	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	5.0	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi in composizione singola: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	10.0	annual
ENTeR - IT & SMI	Confindustria Como	Plastica	9.4	annual



ENTeR - IT & SMI	Confindustria Como	Carta e cartone	9.55	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	2.4	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	60.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi: Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	27.0	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	140.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi: Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	63.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	8.3	annual
ENTeR - IT & SMI	Confindustria Como	Filati: Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	16.0	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre sintetiche (es. poliestere, poliammide)	180.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi: Fibre sintetiche (es. poliestere, poliammide)	100.0	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	13.8	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli: Fibre naturali (es. seta, cotone, lino, canapa, juta)	12.0	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	2.5	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	1.9	annual
ENTeR - IT & SMI	Confindustria Como	Filati: Fibre naturali (es. seta, cotone, lino, canapa, juta)	0.1	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	0.5	annual



ENTeR - IT & SMI	Confindustria Como	Ritagli: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	1.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	6.0	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre sintetiche (es. poliestere, poliammide)	6.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi: Fibre sintetiche (es. poliestere, poliammide)	20.0	annual
ENTeR - IT & SMI	Confindustria Como	Filati: Composizione singola, Composizione eterogenea	0.05	annual
ENTeR - IT & SMI	Confindustria Como	Altro: rocche	0.05	annual
ENTeR - IT & SMI	Confindustria Como	Filati: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	1.5	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	6.3	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	0.2	annual
ENTeR - IT & SMI	Confindustria Como	Altro	5.0	annual
ENTeR - IT & SMI	Confindustria Como	Filati: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	0.1	annual
ENTeR - IT & SMI	Confindustria Como	Filati	11.4	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	11.5	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: Fibre naturali (es. seta, cotone, lino, canapa, juta), Fibre artificiali (es. viscosa, bemberg, acetato), Fibre sintetiche (es. poliestere, poliammide)	0.1	annual
ENTeR - IT & SMI	Confindustria Como	Filati	1.2	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: mix eterogeneo	7.2	annual



ENTeR - IT & SMI	Confindustria Como	Ritagli	3.6	annual
ENTeR - IT & SMI	Confindustria Como	Filati	0.1	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: mix eterogeneo	0.3	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli	0.02	annual
ENTeR - IT & SMI	Confindustria Como	Filati	0.02	annual
ENTeR - IT & SMI	Confindustria Como	Filati	0.1	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: mix eterogeneo	0.6	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi	360.0	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli	165.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi	79.0	annual
ENTeR - IT & SMI	Confindustria Como	Altro	27.5	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi	10.0	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli	6.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi	96.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi	8.0	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi	40.0	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli	230.0	annual
ENTeR - IT & SMI	Confindustria Como	Filati	3.0	annual
ENTeR - IT & SMI	Confindustria Como	Sfridi: mix eterogeneo	7.0	annual
ENTeR - IT & SMI	Confindustria Como	Ritagli	7.0	annual
ENTeR - IT & SMI	Confindustria Como	Prodotti difettosi	1.0	annual



4. Textile waste database on the M3P Platform

PROJECT	COMPANY	WASTE_NAME	Waste Tessili	QUANTITY	MANAGEMENT	COMPOSITION1	COMPOSITION2	COMPOSITION3
ENTeR - IT	NUUP	NO						
ENTeR - IT	COOPERATIVA SOCIALE QUID	NO						
ENTeR - IT	Filatura di Soprana di C. Pollon & C. s.a.s.	NO						
ENTeR - IT	Startex S.r.l.	NO						
ENTeR - IT	Cotonificio Albini S.p.a.	NO						
ENTeR - IT	OSTINELLI SETA SPA	NO						
ENTeR - IT	Nazena s.r.l.	NO						
ENTeR - IT	ETRA SpA	NO						
ENTeR - IT	Maglificio Alto Milanese srl	NO						
ENTeR - IT	Inticom S.P.A.	NO						
ENTeR - IT	Tessitura Armand Saccal S.R.L.	NO						
ENTeR - IT	Lombardy Energy Cleantech Cluster (LE2C)	NO						
ENTeR - IT	REVERSE	NO						
ENTeR - IT	Argar srl	foil Cellophane		500	Waste disposal	NULL	textile	cotton
ENTeR - IT	Argar srl	mixed textile waste	T	430	Waste disposal	NULL	textile	Cartone
ENTeR - IT	Argar srl	Paper conical conical tubes and tubes from yarn supplies		500	Waste disposal	NULL	wood	legno
ENTeR - IT	Argar srl	pallet						



ENTeR

ENTeR - IT	Maglificio Fragi S.P.A.	NO						
ENTeR - IT	BRUGNOLI GIOVANNI SPA	NO						
ENTeR - IT	Lodetex SpA	paper packaging		22		wood	paper	
ENTeR - IT	Lodetex SpA	textile scraps	T	153.414		textile		
ENTeR - IT	Lodetex SpA	plastic packaging		15,3		chemical_products	plastic	
ENTeR - IT	Lodetex SpA	Fabric	T	4	incenerition	textile	100% polyester	
ENTeR - IT	Lodetex SpA	Selvedge	T	9	incenerition	textile	100% polyester	
ENTeR - IT	Lodetex SpA	Plastic cones		6	recycling	polymers	90% plastic	
ENTeR - IT	Bebi srl	Trim of textile	T	20		textile	PES - Elastomeric	
ENTeR - IT	Geocycle (Italia) Srl	solvent		30000		chemical_products	cloro < 1%	
ENTeR - IT	CLERICI TESSUTO & C. SPA	barrè x4859		43		textile	55%se	- 6% wo
ENTeR - IT	CLERICI TESSUTO & C. SPA	misto acetato/viscosa ta041	T	74		textile	45% vi	40% ac
ENTeR - IT	CLERICI TESSUTO & C. SPA	georgette misto t0032	T	110		textile	65% ac	20% pa
ENTeR - IT	CLERICI TESSUTO & C. SPA	Sfridi	T	5		textile	mix	
ENTeR - IT	CLERICI TESSUTO & C. SPA	Carta e cartone		33		textile	Carta	
ENTeR - IT	Cifra S.p.A.	Cascami Tessili sintetici	T	48		textile	80% PA-20% EA	
ENTeR - IT	Cifra S.p.A.	Soluzioni Acquose		13,5		chemical_products	Test tintoriali	
ENTeR - IT	Cifra S.p.A.	Carta e cartone		10,3		textile	Carta	
ENTeR - IT	Cifra S.p.A.	Dirty containers		0,02		polymers	Polietilene	
ENTeR - IT	Cifra S.p.A.	Dirty rags		0,04		textile	Dirty rags	



ENTeR

ENTeR - IT	Alfredo Grassi spa	Stock postconsumer workwear finished garment	T	2,5		textile	Cotton, Wool, Silk, Lyocell, Modal, Viscose, Polyamide, Polyester, Polyacrylic, Polypropylene, Polyu	
ENTeR - IT	Alfredo Grassi spa	Sfridi	T	0,2		textile		
ENTeR - IT	Alfredo Grassi spa	Carta e cartone		16,5		textile	Carta	
ENTeR - IT	Alfredo Grassi spa	legno		0,5		legno	legno	
ENTeR - IT	PARASACCHI SRL	scarti inkjetting moulding di resina acetilica		24		polymers	100% resina acetilica	
ENTeR - IT	Stamperia Olonia s.r.l.	Sludge		405		chemical_products	55% water	
ENTeR - IT	Stamperia Olonia s.r.l.	Cisternette - tanks		1,5	R 13	polymers	>95% PE-HD	
ENTeR - IT	Stamperia Olonia s.r.l.	Piumino - Duvet	T	3,3	R 13	textile	55% water	45% cotton
ENTeR - IT	Stamperia Olonia s.r.l.	Fibre	T	4,5		textile	mix (CO + fibre sintetiche)	
ENTeR - IT	Stamperia Olonia s.r.l.	Tessuti	T	15		textile		
ENTeR - IT	Stamperia Olonia s.r.l.	Solventi Esausti		0,15		chemical_products	Etilene Acetato	glicoli
ENTeR - IT	Stamperia Olonia s.r.l.	Prodotti Chimici		363		chemical_products	Coloranti	
ENTeR - IT	Stamperia Olonia s.r.l.	Carta e cartone		7,2		textile	Carta e cartone	
ENTeR - IT	Stamperia Olonia s.r.l.	Legno		3,7		wood	Legno	
ENTeR - IT	Stamperia Olonia s.r.l.	Imballaggi plastici		16,4		polymers	Imballaggi plastici	
ENTeR - IT	Cossa Polimeri S.r.l.	Materie Plastiche - ABS		70		polymers	ABS Macinato Floreale	
ENTeR - IT	Cossa Polimeri S.r.l.	Polipropilene Macinato Floreale		20		polymers	Polipropilene	



ENTeR

ENTeR - IT	Cossa Polimeri S.r.l.	Polistirolo Macinato Floreale		25		polymers	
ENTeR - IT	PAROTEX Srl	Fibre	T	40		textile	mix (CO + fibre sintetiche)
ENTeR - IT	PAROTEX Srl	Carta e cartone		5		textile	Carta
ENTeR - IT	PAROTEX Srl	Imballaggi plastici		5		polymers	Plastic
ENTeR - IT	B.S.A. srl	Printed knitwear - Maglieria Rettilinea stampata		64		textile	100% polyester
ENTeR - STFI	Knitting Company	NO					
ENTeR - STFI	Weaving mill	NO					
ENTeR - STFI	Vowalon Beschichtung GmbH	NO					
ENTeR - S!T	FIBER-TECH Products GmbH	fibre mat	T	0,2		textile	nonwofen cuttings
ENTeR - S!T	dretex Textil GmbH	textile cuttings white	T	3,3		textile	knitted fabric cuttings
ENTeR - S!T	dretex Textil GmbH	textile cuttings colored	T	4,1		textile	knitted fabric cuttings
ENTeR - S!T	Fiber-Tech Products GmbH	glas fibre fabric	T	0,2		textile	fabric cuttings
ENTeR - S!T	Fiber-Tech Products GmbH	carbon fibre fabric	T	0,03		textile	fabric cuttings
ENTeR - S!T	Grassy Produktions GmbH	cutting residues of knitted fabrics	T	20		textile	cuttings double fabric
ENTeR - S!T	Grassy Produktions GmbH	quilting fleece cuttings	T	20		textile	
ENTeR - S!T	Embro GmbH	polyester nonwoven pieces	T	0,3		textile	100 % PE nonwoven
ENTeR - S!T	Embro GmbH	aramid nonwoven pieces	T	0,2		textile	cuttings 170 g/qm
ENTeR - S!T	Embro GmbH	glass fibre fabric	T	0,2		textile	
ENTeR - S!T	Embro GmbH	Glass fibre fabric with aluminium foil	T	0,2		textile	



ENTeR

ENTeR - S!T	Alpha Sigma GmbH	Aramid recyclate	T	125		textile	fabric cuttings	
ENTeR - S!T	Alpha Sigma GmbH	PE nonwoven	T	0,5		textile		
ENTeR - S!T	TFP Technology GmbH	glass fibre fabric	T	0,3		textile	glass fibre fabric 106 g/qm	
ENTeR - S!T	TFP Technology GmbH	glass nonwoven cuttings	T	0,3		textile		
ENTeR - S!T	Otto Dotzauer KG	fabric remnants	T	0,12		textile	fabric cuttings PES/CO	
ENTeR - S!T	Otto Dotzauer KG	yarn remnants	T	0,3		textile	yarns 100% PES	
ENTeR - S!T	Otto Dotzauer KG	defect embroideries		0,04		textile		
ENTeR - INOTEX	VEBA, textilní závody a.s.	Paper conical tubes from yarn supplies		500		wood	paper	adhesive
ENTeR - INOTEX	STERED® PR Krajně, s.r.o.	*) this company does not offer the waste but offers the patented waste processing technology						
ENTeR - INOTEX	CHLUM - TEX, spol. s r.o.	NO						
ENTeR - INOTEX	BARTON-textil a. s.	NO						
ENTeR - INOTEX	STAP, a.s.	NO						
ENTeR - INOTEX	BN International	NO						
ENTeR - PIOT	SYNTEX SPOLKA Z O.O.	PROCESSED TEXTILE FIBRES	T	20	sale	textile	70	20
ENTeR - PIOT	SYNTEX SPOLKA Z O.O.	PLASTIC PACKAGINGS		5,5	sale	textile	100	
ENTeR - PIOT	SYNTEX SPOLKA Z O.O.	PAPER AND CARDBOARD PACKAGING		7,5		textile	100	



ENTeR

ENTeR - PIOT	SYNTEX SPOLKA Z O.O.	Discarded equipment containing hazardous components other than those mentioned in 16 02 09 to 16 02 12		40	sale	textile	100	
ENTeR - PIOT	SYNTEX SPOLKA Z O.O.	IRON AND STEEL		7,94	sale	textile	50	50
ENTeR - PIOT	OSP RP Wytownia Umundurowania Strazackiego PL	wastes from processed textile fibres		18808	export by an outside company	textile	polyester, wool 70%	cotton, polyamide 30%
ENTeR - PIOT	ADRIANO PL	SCRAPS OF WOVEN FABRICS		99	recycling	textile	woven fabrics cuttings	
ENTeR - PIOT	„Agnes” Czarny Fashion Group Sp.J. PL	PROCESSED TEXTILE FIBRES	T	20	disposal (fee charged)	textile	polyester	
ENTeR - PIOT	„Agnes” Czarny Fashion Group Sp.J. PL	PLASTIC PACKAGING		1	disposal (fee charged)	polymers	PVC	
ENTeR - PIOT	CAMELA SA PL	POLYESTER INTERLININGS		32	disposal 2 530/ton	textile	99% PES	1% PA
ENTeR - PIOT	CAMELA SA PL	COTTON INTERLININGS	T	20	disposal	textile	86% CO	8.5% PE
ENTeR - PIOT	CAMELA SA PL	PES/CV INTERLININGS	T	13	disposal	textile	60% CV	27% PES 1
ENTeR - PIOT	CAMELA SA PL	PES/PA NONWOVENS	T	3	disposal	textile	56% PES	6% PA
ENTeR - PIOT	CAMELA SA PL	LAMINATES	T	30	disposal	textile	35% CO	35% PE
ENTeR - PIOT	CAMELA SA PL	CARDBOARD	T	30	disposal 8	textile	100% paper	
ENTeR - PIOT	CAMELA SA PL	FOIL PACKAGING		0,7	disposal 5	polymers	100% PE	
ENTeR - PIOT	DYWILAN SA PL	DILUTED LATEX		23	disposal ~	chemical_products	80 water	
ENTeR - PIOT	DYWILAN SA PL	PROCESSED TEXTILE FIBRES	T	48,5	incineration	textile	90	



ENTeR

ENTeR - PIOT	DYWILAN SA PL	TEXTILE CUTTINGS	T	15		textile	
ENTeR - PIOT	DYWILAN SA PL	CARDBOARD, TUBES, PAPER	T	43958	recycling	wood	cardboard, glued cellulose
ENTeR - PIOT	DYWILAN SA PL	FOIL		500	recycling	textile	polymers (mainly PE)
ENTeR - PIOT	DYWILAN SA PL	YARN SCRAPS	T	500	sale	textile	natural & synthetic fibres
ENTeR - PIOT	IMP CONFORT SP.Z O.O. PL	COLOURED CRIMPED CABLE	T	120		textile	cable
ENTeR - PIOT	IMP CONFORT SP.Z O.O. PL	STRETCHED CABLE		55	sale	textile	
ENTeR - PIOT	IMP CONFORT SP.Z O.O. PL	UNSTRETCHED CABLE		50	ssle	textile	
ENTeR - PIOT	IMP CONFORT SP.Z O.O. PL	SOLID BLOCK		85	sale	textile	
ENTeR - PIOT	TOMTEX SA PL	PROCESSED TEXTILE FIBRES	T	15	recycling	textile	80 woollen fibres
ENTeR - PIOT	TORPOL SP. Z O.O. PL	FURRY KNITTED FABRIC	T	10	landfill	textile	
ENTeR - PIOT	TORPOL SP. Z O.O. PL	PVC WOVEN FABRICS	T	10	lanfill	textile	PVC WOVEN FABRICS
ENTeR - PIOT	TORPOL SP. Z O.O. PL	CO WOVEN FABRICS	T	10	landfill	textile	CO WOVEN FABRICS
ENTeR - PIOT	TORPOL SP. Z O.O. PL	PES	T	10	landfill	textile	PES
ENTeR - PIOT	TORPOL SP. Z O.O. PL	PP FOIL		10	landfill	textile	PP FOIL
ENTeR - PIOT	WOLCZANKA SHIRTS MANUFACTURING SP Z O.O. PL	PROCESSED TEXTILE FIBRES	T	23		textile	CO PES
ENTeR - PIOT	ZWOLTEX SPOLKA Z O.O. PL	SELVEDGES	T	7	landfill	textile	SELVEDGES
ENTeR - PIOT	ZWOLTEX SPOLKA Z O.O. PL	CUTTINGS	T	36	sale, landfill	textile	CUTTINGS



ENTeR

ENTeR - PIOT	ZWOLTEX SPOLKA Z O.O. PL	CARTON		75	landfill, sale	textile	CARTON	
ENTeR - PIOT	ZWOLTEX SPOLKA Z O.O. PL	FOILS		7,6	sale	textile	FOILS - PE	
ENTeR - PIOT	ZWOLTEX SPOLKA Z O.O. PL	PALETTES		2,8	sale	wood	PALETTES	
ENTeR - L-IW	Janis Sp. z o.o. Sp. k.	Mixed processed fibres	T	30	recycling	textile	CO 60%	PE 38%
ENTeR - L-IW	Janis Sp. z o.o. Sp. k.	Clean foil packaging		3	recycling	polymers	LDPE 100%	
ENTeR - L-IW	Janis Sp. z o.o. Sp. k.	Clean carton packaging		3	recycling	polymers		
ENTeR - L-IW	TEMAR	Wastes of woven fabrics after finishing processes	T	40	recycling company	textile		
ENTeR - L-IW	KNITTEX sp.z o.o sp.Komandytowa	Cutting waste, yarn, pieces of textile products - polyamide	T	20	Sale	textile	90	5
ENTeR - L-IW	KNITTEX sp.z o.o sp.Komandytowa	Cutting waste, yarn, pieces of textile products - viscose	T	-	sale	textile	60	30
ENTeR - L-IW	ARIADNA S.A. Fabryka Nici w Lodzi	Tangled mixed yarns	T	10,358	sale, waste disposal	polymers	100%	
ENTeR - L-IW	ARIADNA S.A. Fabryka Nici w Lodzi	Pieces of woven tapes	T	10,486	waste disposal	polymers	100%	
ENTeR - L-IW	ARIADNA S.A. Fabryka Nici w Lodzi	Cutting waste	T	885	waste disposal	polymers	100%	
ENTeR - L-IW	ARIADNA S.A. Fabryka Nici w Lodzi	Dyes		124	waste disposal	chemical_produc ts	100%	



ENTeR

ENTeR - L-IW	ARIADNA S.A. Fabryka Nici w Lodzi	Chemical preparations		0,69	waste disposal	chemical_products	100%	
ENTeR - L-IW	"TEOFILOW" S.A	Edge cuttings, scraps, dust from shearing	T	~65	recycling	textile		
ENTeR - L-IW	TOMCOTTON Jan Kudlik							
ENTeR - L-IW	Ferax Sp. z o.o.	Polyamide	T	55	sale	NULL	polymers	PA6
ENTeR - L-IW	Ferax Sp. z o.o.	Waste paper		70	sale	NULL	polymers	-
ENTeR - L-IW	BIOMATEX PRODUKCJA SP Z O.O.	Textile waste coming from carding processes	T	7	disposal	NULL	textile	blend CO/PES etc.
ENTeR - L-IW	P.P.H.U. TRANS-TEX S.C. K.K.A.KASZNIC CY	Offcuts and scraps of woven or knitted fabrics	T	5	sale	NULL	textile	50 PES
ENTeR - PBN	Biotextima Kft.							
ENTeR - PBN	Hartjes Kft.	adhesive can		95		NULL	polymers	
ENTeR - PBN	Orto a Kft.	adhesive can		-		NULL	polymers	
ENTeR - PBN	Orto a Kft.	Tanned leather waste		-		NULL	polymers	
ENTeR - PBN	am-LAB Hungary	Waste contaminated with hazardous substances		9.876		NULL	chemical_products	
ENTeR - PBN	am-LAB Hungary	Plastic waste - filament		29.347		NULL	textile	
ENTeR - PBN	am-LAB Hungary	Paper, cardboard and cardboard packaging waste		15.947		NULL	polymers	
ENTeR - PBN	am-LAB Hungary	Electronic waste		309		NULL	polymers	
ENTeR - PBN	am-LAB Hungary	Wax waste	T	721		NULL	polymers	epoxy wax
ENTeR - PBN	am-LAB Hungary	Plastic packaging waste		1.061		NULL	polymers	packaging
ENTeR - PBN	am-LAB Hungary	Halogen-free solvent mixture		7.325		NULL	polymers	



ENTeR

ENTeR - INNOVATEXT	Ladylon Kft	NO						
-----------------------	-------------	----	--	--	--	--	--	--

5. Conclusion

Summary of Target achieved with a table with the number of companies and waste by country

Summary	# WASTE	# Companies
ENTeR - INNOVATEX	17	9
Ladylon Kft.	3	
Unicorn Work	2	
MEZ Cradts Hungary Kft.	3	
Julius-K9	1	
Temaforg Kunszentmiklós Kft.	1	
Multifelt Factory	1	
Albertfalvi Cérnázó Kft.	2	
Vektor Munkavédelmi Kft.		
Sinka és Társa Kft.	4	
ENTeR - INOTEX	37	22
Adient Strakonice s.r.o.	5	
BARTON-textil a. s.	2	
BN International s.r.o.	2	
Broumov Diakony, social cooperative	1	
CHLUM - TEX, spol. s r.o.		
CHRÍŠTOF, spol. s r.o.	1	
CLINITEX s.r.o.	1	
Dekora-Jeníček a.s.	4	
Glanzstoff -Bohemia s.r.o.	1	
GRUND a.s.	4	
HEDVA a.s.	2	
Intercolor a.s.	1	
Mitop, a.s.	1	
Nejdecká česárna vlny, a.s.	2	
SILK & PROGRESS, spol. s r.o.	1	
STAP, a.s.		
STERED® PR Krajné, s.r.o.	1	
SVITAP J.H.J. spol. s r.o.	1	
Toray Textiles Central Europe s.r.o.	1	
VEBA, textilní závody a.s.	3	
VLNAP a.s.	2	
Technology	1	
ENTeR - IT	44	27
Alfredo Grassi spa	4	
B.S.A. srl	1	
Bebi srl	1	
Cifra S.p.A.	5	
CLERICI TESSUTO & C. SPA	5	
Cossa Polimeri S.r.l.	3	
Geocycle (Italia) Srl	1	
Lodetex SpA	6	
PARASACCHI SRL	1	



PAROTEX Srl	3	
Stamperia Olonia s.r.l.	10	
NUUP		
COOPERATIVA SOCIALE QUID		
Filatura di Soprana di C. Pollon & C. s.a.s.		
Startex S.r.l.		
Cotonificio Albini S.p.a.		
OSTINELLI SETA SPA		
Nazena s.r.l.		
ETRA SpA		
Maglificio Alto Milanese srl		
Argar srl	4	
Maglificio Fragi S.P.A.		
BRUGNOLI GIOVANNI SPA		
Inticom S.P.A.		
Tessitura Armand Saccal S.R.L		
Lombardy Energy Cleantech Cluster (LE2C)		
REVERSE		
ENTeR - L-IW	16	9
"TEOFILOW" S.A	1	
ARIADNA S.A. Fabryka Nici w Lodzi	5	
Janis Sp. z o.o. Sp. k.	3	
KNITTEX sp.z o.o sp.Komandytowa	2	
TEMAR	1	
TOMCOTTON Jan Kudlik		
Ferax Sp. z o.o.	2	
BIOMATEX PRODUKCJA SP Z O.O.	1	
P.P.H.U. TRANS-TEX S.C. K.K.A.KASZNICCY	1	
ENTeR - PIOT	38	11
„Agnes" Czarny Fashion Group Sp.J. PL	2	
ADRIANO PL	1	
CAMELA SA PL	7	
DYWILAN SA PL	6	
IMP CONFORT SP.Z O.O. PL	4	
OSP RP Wytownia Umundurowania Strazackiego PL	1	
SYNTEX SPOLKA Z O.O.	5	
TOMTEX SA PL	1	
TORPOL SP. Z O.O. PL	5	
WOLCZANKA SHIRTS MANUFACTURING SP Z O.O. PL	1	
ZWOLTEX SPOLKA Z O.O. PL	5	
ENTeR - SIT	18	7
Alpha Sigma GmbH	2	
dretex Textil GmbH	2	
Embro GmbH	4	
FIBER-TECH Products GmbH	3	
Grassy Produktions GmbH	2	
Otto Dotzauer KG	3	
TFP Technology GmbH	2	
ENTeR - STFI	3	3
Knitting Company	1	



Weaving mill	1	
Vowalon Beschichtung GmbH	1	
ENTeR - PBN	10	4
Biotextima Kft.		
Hartjes Kft.	1	
Orto a Kft.	2	
am-LAB Hungary	7	
ENTeR - IT & SMI	365	165
Caligaris Spa	6	
Rubelli Spa	3	
Giorgio Armani Spa	1	
Filatura di Trivero s.p.a.	7	
Cotonella Spa	2	
Confezioni Silusi Srl	1	
Calzificio Trever Spa	3	
Candiani Spa	10	
Carvico Spa	2	
Tessuti Artistici Fortuny Srl	3	
ROSSI LORENZO E FIGLI Srl	7	
Tintoria Finissaggio di Luisago	2	
NASTRIFICIO VICTOR SPA	5	
Herno Spa	4	
DE MARTINI BAYART & TEXTIFIBRA S.P.A	2	
CANDEGGIO LA BRIANTEA	4	
Tintoria F.lli Rosina S.p.A	3	
Filatura CB S.p.A	2	
CALZIFICIO FAP SPA	6	
De Martini spa	3	
Manifattura GOLF	2	
Filatura ASTRO	5	
Iniziativa industriali	5	
Pettinatura Lane di Romagnano Sesia spa	7	
TONELLA	3	
TINFOR S.r.l	4	
Eurojersey	2	
Albany International Italia s.r.l.	6	
FRAMIS ITALIA SPA	5	
TESSITURA CARLO PAPIS SRL	1	
CLERICI TESSUTO & C. S.p.A.	2	
Reggiani Lanificio S.p.A.	5	
Tessitura Monti spa	5	
Filatura Rivetti S.r.l.	1	
Dorama Filatura Cardata S.r.l.	4	
MARCHI & FILDIA SPA	1	
ZEGNA Baruffa	5	
ARTEXBIELLA	7	
LVT - sede AVIS	2	
LVT - sede Gran Bretagna	2	
CAMICERIA AGATEX SRL		
Meierhofer	2	



LANECARDATE SPA	3	
SETERIA BIANCHI SRL	3	
Staff internattion spa	2	
Successori Reda S.p.A	3	
Taroni spa	3	
Filatura Pettinata MELLO	4	
Gruppo Marzotto - BMT	9	
Gruppo Marzotto - LCN	4	
Gruppo Marzotto - MLAB Tessuti Sondrio	3	
Gruppo Marzotto - MWM	10	
Gruppo Marzotto - Ratti	8	
Lanificio Ermenegildo Zegna	6	
VITALE BARBERIS CANONICO	9	
GASPARE SIRONI SPA.	8	
Edelweiss Srl	3	
Pierre Paul Srl	2	
Tessitura Molteni	7	
Tintoria Vago	3	
Fratelli Vitali di Roberto	3	
Il Gufo spa	2	
Maris di fratelli mario &C	5	
Jersey Lomellina	1	
Pecco & Maliverno	1	
Tintoria Butti	5	
TS Lambrugo	7	
Pettinatura di Verrone srl	8	
SAATI SpA	2	
Torcitura della Valcuvia srl	3	
ALLAVELLI MICHELE SRL	3	
WEGAL & TRICOTEL SPA	2	
Filmar SPA	1	
CEDERNA FODERE SPA TINTORIA	4	
CEDERNA FODERE SPA TESSITURA	3	
Canali	4	
Tessitura Stamperia Luigi Verga s.p.a.	3	
Manifattura Colombo	4	
CAMAC srl	1	
Confindustria Como	61	
Totale complessivo	545	259



6. Annex 1 - Italian questionnaire

Questionario Rifiuti Tessili

Parte A – Anagrafica

A1 – Dati dell'impresa

Azienda	
Codice ATECO	
Indirizzo	
Persona di riferimento	
Telefono	
E-Mail	
Website	
Sito produttivo (Località e Provincia)	

A2 – Numero dei dipendenti

- ≤ 9
- 10 to 49
- 50 to 99
- 100 to 249
- ≥ 250

A3 – Fatturato annuale [mln €]

- ≤ 1
- > 1 fino a 5
- > 5 fino a 10
- > 10 fino a 50
- > 50 fino a 100
- ≥ 100



A4 – Campo tecnologico (sono possibili più scelte)

- Filatura
- Tessitura
- Maglieria
- Tessuti non tessuti
- Pizzi e ricami
- Nobilitazione e finissaggi:
- Abbigliamento:
- Riciclo tessile
- Altro

A5 – Segmento produttivo (Sono possibili più scelte)

- Abbigliamento
- Arredamento
- Tessili tecnici
- Accessori (zip, bottoni etc.)
- Altro

Osservazioni:



Parte B – Rifiuti: quantità (annuali), recupero e smaltimento

B1–Tipologia di rifiuti tessili

(sono possibili più scelte - Se si è dotati di un sistema di separazione degli scarti inserire le quantità annue per composizione anche se afferenti allo stesso CER.)

Cotton	CO	Wool	WO	Polyamide	PA	Glass	GF
Linen	LI	Silk	SE	Polyester	PES	Carbon	CF
Kapok	KP	Acetate	CA	Polyacrylic	PAN	Metal	MTF
Hemp	HA	Cupro	CUP	Polyethylene	PES	Basalt	BA
Jute	JU	Lyocell	CLY	Polypropylene	PP	Ceramics	CER
Ramie	RA	Modal	CMD	Polyurethane	PUR	Feather	Feather
Sisal	SI	Triacetate	CTA	Polyvinyl chloride	PVC	Down	Down
Manila	AB	Viscose	CV	Aramid	AR	Others	OTH



Fibre

Codice CER **Quantità scartate (kg/anno)**

Indicare anche le quantità lavorate (kg/anno)

o la percentuale degli scarti sulle quantità lavorate (%)

Composizione¹

composizione
singola

mischia
intima²

Informazioni aggiuntive:



Filati

Codice CER **Quantità scartate (kg/anno)**

Indicare anche le quantità lavorate (kg/anno)

o la percentuale degli scarti sulle quantità lavorate (%)

Composizione¹

composizione
singola

mischia
intima²

Informazioni aggiuntive:

¹ usare le abbreviazioni. In caso di più composizioni usare il campo "Informazioni aggiuntive" per elencare tutte le composizioni degli scarti che il vostro sistema produttivo genera

² mischia intima, multi-strato, rivestito, compositi



- Tessuti**
Codice CER **Quantità scartate (kg/anno)**
 Indicare anche le quantità lavorate (kg/anno)
 o la percentuale degli scarti sulle quantità lavorate (%)

Composizione ³	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Texture ⁴	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	composizione singola	composizione mista	mix spalmati o accoppiati ⁵	uniti a componenti non-tessili

Informazioni aggiuntive:

- Sfridi (cimosse, etc.)**
Codice CER **Quantità scartate (kg/anno)**
 Indicare la percentuale degli scarti sulle quantità lavorate (%)

Composizione ³	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	composizione singola	mix eterogeneo	uniti a componenti non-tessili

Informazioni aggiuntive:

- Ritagli**
Codice CER **Quantità scartate (kg/anno)**
 Indicare anche le quantità lavorate (kg/anno)
 o la percentuale degli scarti sulle quantità lavorate (%)

Composizione ³	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Texture ⁴	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	composizione singola	composizione mista	mix spalmati o accoppiati ⁵	uniti a componenti non-tessili

Informazioni aggiuntive:

³ usare le abbreviazioni. In caso di più composizioni usare il campo "Informazioni aggiuntive" per elencare tutte le composizioni degli scarti che il vostro sistema produttivo genera

⁴ selezionare



- Prodotti difettosi**
Codice CER **Quantità scartate (kg/anno)**
Indicare anche le quantità lavorate (kg/anno)
o la percentuale degli scarti sulle quantità lavorate (%)

Composizione⁵

composizione
singola

mix
eterogeneo

uniti a componenti
non-tessili

Informazioni aggiuntive:

- Altri scarti (specificare)**
Codice CER **Quantità scartate (kg/anno)**
Indicare anche le quantità lavorate (kg/anno)
o la percentuale degli scarti sulle quantità lavorate (%)

Composizione⁶

composizione
singola

mix
eterogeneo

uniti a componenti
non-tessili

Informazioni aggiuntive:



B2 – Rifiuti da nobilitazione (tintura, stampa, finissaggio)

(Sono possibili più scelte)

- Solventi esausti**
Codice CER **Quantità (kg/anno)**
Composizione:
Composizione:
- Soluzioni acquose**
Codice CER **Quantità (kg/anno)**
Composizione:
Composizione:
- Prodotti chimici**
Codice CER **Quantità (kg/anno)**
Composizione:
Composizione:
- Fanghi**
Codice CER **Quantità (kg/anno)**
Composizione:
Composizione:
- Altro:**
Codice CER **Quantità (kg/anno)**
Composizione:
Composizione:

Informazioni aggiuntive:



B3 – Altri rifiuti prodotti di cui si cercano possibilità di recupero
(possibilità di risposta multipla)

- Carta e cartone
Codice CER **Quantità (kg/anno)**
- Lamine/Films
Codice CER **Quantità (kg/anno)**
- Prodotti chimici
Codice CER **Quantità (kg/anno)**
- Legno
Codice CER **Quantità (kg/anno)**
- Altro:
Codice CER **Quantità (kg/anno)**

Informazioni aggiuntive:



B4 – Attuale riciclo dei prodotti tessili (riutilizzati in altri processi produttivi con o senza preparazione internamente o presso aziende esterne)

Destinazione	Quantità [kg]	Costi (C) [€/kg]	Ricavi (R) [€/kg]

B5 – Smaltimento (il rifiuto non viene riutilizzato in processi produttivi)

Metodo di smaltimento	Quantità [kg]	Costi (C) [€/kg]

Osservazioni:



Parte C – Valutazione della situazione da parte dell’azienda

C1 – Quali sono le ragioni della mancanza di recupero degli scarti?

(Sono possibili più scelte)

- Carezza tecnologica
- Gestione di processi troppo impegnativi (separazione, stoccaggio, logistica)
- Scarso interesse economico
- Aspetti normativi
- Mancanza di informazioni
- Mancanza di risorse
- Altro (specificare)

SWOT analysis (C2-C5)

C2 – Quali sono i “punti di forza” per il riciclo dei vostri scarti tessili?

(Sono possibili più scelte)

- Composizione singola
- Gestione separata dei rifiuti (sorting)
- Grandi quantità
- Produzione costante dei rifiuti
- Rifiuti di valore
- Vicinanza con le aziende che effettuano il riciclo
- Altro (specificare)

C3 – Quali sono le “criticità” per il riciclo dei vostri scarti tessili?

(Sono possibili più scelte)

- Rifiuti di composizione indefinita
- Piccole quantità
- Produzione discontinua
- Bassa qualità
- Elevata distanza dalle aziende che effettuano il riciclo
- Altro (specificare)

C4 – Quali sono le “opportunità” per il riciclo dei vostri scarti tessili?

(Sono possibili più scelte)

- Riciclo interno (ciclo produttivo)
- Riutilizzo in nuovi prodotti (propri o di terzi)
- Offerta dei rifiuti su piattaforme dedicate
- Investimenti in nuove tecnologie/ricerca di fondi
- Attività di ricerca e sviluppo (R&D)
- Altro (specificare)



C5 – Quali sono le “minacce” per il riciclo dei vostri scarti tessili?

(Sono possibili più scelte)

- Costi elevati
- Ulteriori investimenti per la soluzione di problemi di riciclo
- Basso apprezzamento da parte del mercato
- Rifiuti contaminati (polluted), ad esempio non processabili
- Vincoli normativi / fornitura (e.g. REACH) / vincoli di trasporto (certificati)
- Altro (specificare)

Grazie per la collaborazione

Il questionario compilato dovrà essere inviato entro il 31 ottobre 2019 a:

Roberto Vannucci roberto.vannucci@centrocot.it

Donatella Macchia donatella.macchia@centrocot.it

Con loro potete prenotare appuntamento telefonico per domande sulla compilazione

Accordo confidenziale

Tutti i dati saranno utilizzati solo per il Progetto ENTeR e, qualora necessario per attività del progetto, mostrati in forma aggregata. I dati saranno gestiti in modo confidenziale. Ogni valutazione di questi dati verrà eseguita in maniera anonima per fini interni al progetto.

- Si autorizza l'utilizzo dei dati trasmessi ai sensi del Reg. UE n. 2016/679 (GDPR) sulla tutela della privacy (obbligatorio)
- Si desidera rimanere informati sulle iniziative e l'avanzamento del Progetto ENTeR, anche mediante invio di newsletter e l'invito ad eventi inerenti al progetto stesso (*facoltativo*)

Data _____

Timbro e Firma _____



7. Annex 2 - Czech questionnaire



Dotazník Textilní odpady

Prosíme o laskavé zaslání vyplněného dotazníku na kontakt

chybova@inotex.cz

Ing. Olga Chybová
středisko ekologie
INOTEX spol. s r.o., Dvůr Králové n.L.
tel. 499 316 321
732 721 210

V případě jakýchkoli dotazů se kdykoli můžete obrátit na výše uvedený kontakt.



Část A – Obecné informace o společnosti

A1 – Kontaktní informace

Společnost	
Adresa	
Kontaktní osoba	
Telefon	
Fax	
E-mail	
Webová stránka	

A2 – Počet zaměstnanců

- ≤ 9
- 10 to 49
- 50 to 99
- 100 to 249
- ≥ 250

A3 – Roční obrat [mil CZK]

- ≤ 1
- > 1 up to 5
- > 5 up to 10
- > 10 up to 50
- > 50 up to 100
- ≥ 100



A4 – Výrobní technologie (možno zvolit více možností)

- Výroba vláken a přízí
- Tkaní
- Pletení
- Výroba netkaných textilií:
 - vpichované
 - chemicky spojené
 - termicky spojené
 - jiné (uvedte)
- Výšivky, krajky
- Barvení/tisk
- Finální úpravy
 - nehořlavé
 - hydrofobní, oleofobní, nešpinivé
 - easy-care
 - měkčící
 - tužící
 - antibakteriální, protihmyzové
 - jiné (uvedte)
- Laminování, zátěry
- Konfekce
- Recyklace textilu
- Prádelenský servis
 - praní
 - leasing / pronájem prádla (zdravotnická zařízení, hotely)
- Jiné



A5 – Vyráběný / zpracovávaný produktový segment (možno zvolit více možností)

- Textilie pro výrobu oděvní konfekce
- Textilie pro bytový a domácí textil
- Konfekce (oděvy, bytový textil, jiné)
- Zdravotnické textilie, pracovní oděvy
- Technické textilie
- Příslušenství (zipy, knoflíky atd.)
- Jiné

A6 – Údržba a prádelenský servis (zdravotnické, potravinářské, hotelové prádlo a pracovní oděvy)

- prádlo vlastním a provádím údržbu sám
- využívám servise leasingové prádelny
- zajišťuji prádelenský servis vč. leasingu

Poznámky:

.....

.....

.....

.....

.....



Část B – Množství odpadu (roční), regenerace odpadu a odstraňování odpadu

B1 – Typ textilních odpadů (možno zvolit více možností)

Materiálové složení:							
Bavlna	CO	Vlna	WO	Polyamid	PA	Sklo	GF
Len	LI	Hedvábní	SE	Polyester	PES	Uhlík	CF
Kapok	KP	Acetát	CA	Polyakryl	PAN	Kov	MTF
Konopí	HA	Cupro	CUP	Polyethylen	PE	Čedič	BA
Juta	JU	Lyocell	CLY	Polypropylen	PP	Keramika	CER
Ramie	RA	Modal	CMD	Polyurethan	PUR	Peří	Feather
Sisal	SI	Triacetát	CTA	Polyvinyl chlorid	PVC	Prachové peří	Down
Manila	AB	Viskóza	CV	Aramid	AR	Jiné	OTH

Typ finálních úprav na bázi:		označte (X)
nehořlavé úpravy	systémy obsahující Sb ₂ O ₃	
	bromované uhlovodíky	
	chlorované uhlovodíky	
	organické sloučeniny fosforu	
	anorganické sloučeniny fosforu	
	amoniové soli	
	jiné	
hydrofobní, oleofobní, nešpinivé	fluorované uhlovodíky	
	polysiloxany	
	parafiny	
	speciální polymery (dendrimery, uhlovodíky)	
easy-care	jiné	
	formaldehydová síťovací činidla	
	nízkoformaldehydová síťovací činidla	
	bezformaldehydová síťovací činidla	
	polyuretany	
	polysiloxany	
měkčící	jiné	
	polysiloxany	
	deriváty polyethylenu	
	Kondenzační produkty mastných kyselin	
	ester quaty	
tužící	jiné	
	škrob	
	polyvinylalkohol	



	jiné	
laminování, zátěry	polyakryláty	
	polyurethany	
	škrob	
	PVC	
	silikony	
	jiné	
antibakteriální, protihmyzové		
jiné (uvedte)		

Vlákna kg

Materiál*)

*) Použijte, prosím,
zkratky z tabulky

Struktura **)

**) Prosím, vyznačte

.....
jednodruhový smíšený pevně spojené
.....
spojené ***) s netextilními
komponentami

***) vícevrstvé, zátěry, kompozity

Místo pro Vaše doplňující informace / bližší popis (obsažené finální úpravy
textilního materiálu tvořícího Váš odpad)

.....
.....

Příze/skané příze kg

Materiál*)

*) Použijte, prosím,
zkratky z tabulky

Struktura **)

**) Prosím, vyznačte

.....
jednodruhový smíšený pevně spojené
.....
spojené ***) s netextilními
komponentami

***) vícevrstvé, zátěry, kompozity

Místo pro Vaše doplňující informace / bližší popis (obsažené finální úpravy



textilního materiálu tvořícího Váš odpad)

.....
.....

Tkaniny kg

Materiál*)

*) Použijte, prosím,
zkratky z tabulky

.....

Struktura **)

**) Prosím, vyznačte

.....
jednodruhový	smíšený	pevně	spojené
		spojené ***)	s netextilními komponentami

***) vícevrstvé, zátěry, kompozity

Místo pro Vaše doplňující informace / bližší popis (obsažené finální úpravy

textilního materiálu tvořícího Váš odpad)

.....
.....

Kusy tkanin (okraje apod.) kg

Materiál*)

*) Použijte, prosím,
zkratky z tabulky

.....

Struktura **)

**) Prosím, vyznačte

.....
jednodruhový	smíšený	pevně	spojené
		spojené ***)	s netextilními komponentami

***) vícevrstvé, zátěry, kompozity

Místo pro Vaše doplňující informace / bližší popis (obsažené finální úpravy

textilního materiálu tvořícího Váš odpad)

.....
.....



Odřezky kg

Materiál*)

*) Použijte, prosím,
zkratky z tabulky

.....

Struktura **)

**) Prosím, vyznačte

.....
jednodruhový	smíšený	pevně	spojené s netextilními spojené ***) komponentami

***) vícevrstvé, zátěry, kompozity

Místo pro Vaše doplňující informace / bližší popis (obsažené finální úpravy

textilního materiálu tvořícího Váš odpad)

.....

.....

Vadné výrobky kg

Materiál*)

*) Použijte, prosím,
zkratky z tabulky

.....

Struktura **)

**) Prosím, vyznačte

.....
jednodruhový	smíšený	pevně	spojené s netextilními spojené ***) komponentami

***) vícevrstvé, zátěry, kompozity

Místo pro Vaše doplňující informace / bližší popis (obsažené finální úpravy

textilního materiálu tvořícího Váš odpad)

.....

.....



Jiné kg

Materiál*)

*) *Použijte, prosím, zkratky z tabulky*

Struktura **)

**) *Prosím, vyznačte*

.....
jednořuhový	smíšený	pevně	spojené s netextilními
		spojené **)	komponentami

***) *vícevrstvé, zátěry, kompozity*

Místo pro Vaše doplňující informace / bližší popis (obsažené finální úpravy textilního materiálu tvořícího Váš odpad)

.....
.....

B2 - Další výrobní odpady, pro něž jsou hledány možnosti regenerace (možno zvolit více možností)

Papír, lepenka kg

Fólie/Filmy kg

Chemikálie kg

Dřevo kg

Jiné kg

Místo pro Vaše doplňující informace / bližší popis

.....



B3 - Recyklace textilních odpadů (textilní odpad je opětovně používán s přípravou nebo bez přípravy ve vlastní nebo v externích společnostech)

Metoda recyklace	Množství [kg]	Náklady (C) Příjmy (R) [CZK]

B4 - Odstraňování (odpad není opětovně využíván ve výrobním procesu)

Metoda odstraňování	Množství [kg]	Náklady (C) Příjmy (R) [CZK]

Poznámky:

.....

.....

.....



Část C – Posouzení situace z pohledu společnosti

C1 – Jaká je naléhavost hledání možností recyklace?

- Velmi vysoká
- Vysoká
- Střední
- Nízká
- Nevýznamná

Místo pro Vaše doplňující informace / bližší popis

.....

.....

C2 – Jaká je důležitost nákladů za odstranění odpadů ve Vaší společnosti?

- Velmi vysoká
- Vysoká
- Střední
- Nízká
- Nevýznamná

Místo pro Vaše doplňující informace / bližší popis

.....

.....



C3 – Jaké jsou důvody pro to, že odpady nejsou regenerovány? (možno zvolit více možností)

- Není k dispozici technologické nebo technické řešení
- Příliš vysoká náročnost registrace a zpracování (separace, skladování, logistika)
- Není ekonomicky zajímavé
- Legislativa
- Jiné

Místo pro Vaše doplňující informace / bližší popis

.....

.....

SWOT analýza (C4-C7)

SWOT: S = Strengths (Silné stránky), W = Weaknesses (Slabé stránky), O = Opportunities (Příležitosti), T = Threats (Hrozby)

C4 – Jaké silné stránky týkající se recyklace Vašich textilních odpadů vidíte? (možno zvolit více možností)

- Jednodruhový
- Separovaný odpad (třídění)
- Velká množství
- Pravidelná produkce odpadu
- Cenný odpad
- Krátká vzdálenost k recyklační firmě
- Jiné



C5 – Jaké slabé stránky týkající recyklace Vašich textilních odpadů vidíte?
(možno zvolit více možností)

- Nedefinovaný odpad
- Malá množství
- Nepravidelná produkce odpadů
- Podřadný odpad (nízká kvalita)
- Dlouhá vzdálenost k recyklační firmě
- Jiné

C6 – Jaké příležitosti týkající recyklace Vašich textilních odpadů vidíte? (možno zvolit více možností)

- Recyklace odpadu ve vlastní společnosti (výrobní cyklus)
- Opětovné použití v novém výrobku (vlastní nebo jiná společnost)
- Nabídnutí odpadu přes recyklační výměnnou platformu
- Investice do nových technologií / žádost o dotace
- Aktivita v oblasti výzkumu a vývoje (R&D)
- Jiné

C7 – Jaké hrozby týkající recyklace Vašich textilních odpadů vidíte? (možno zvolit více možností)

- Vysoké náklady na zpracování
- Investice nutné pro řešení problému (dodatečné náklady)
- Nedostatečné poptávka trhu po recyklovaných produkt
- Kontaminovaný odpad (znečištěný), např. zpracování není možné
- Legislativa (např. REACH, látky SVHC, ...) / podmínky dodání (certifikáty)
- Jiné



C8 – Jak hodnotíte potřebu informací a vzdělávání v oblasti recyklace textilu?

- Velmi vysoká
- Vysoká
- Střední
- Nízká
- Nevýznamná

C9 – Zhodnocení regionální situace týkající se nakládání s textilním odpadem

(uvedte, prosím, Vaše zkušenosti, názory či podněty)

.....

.....

.....

.....

.....

.....

Vámi poskytnuté údaje budou považovány za přísně důvěrné. Jakékoli vyhodnocení těchto údajů bude provedeno pouze anonymně a v rámci zpracování projektu.



8. Annex 3 - Hungarian questionnaire



Textilhulladékra vonatkozó kérdőív

A rész) – Általános céginformáció

A1 - Kommunikációs adatok

Cégnév	
Cím	
Kapcsolattartó	
Telefonszám	
Fax	
E-mail	
Honlap	

A2 - Alkalmazottak száma

- ≤ 9
- 10 - 49
- 50 - 99
- 100 - 249
- ≥ 250

A3 - Éves forgalom [mn EUR]

- ≤ 1
- > 1 - 5
- > 5 - 10
- > 10 - 50
- > 50 - 100
- ≥ 100



A4 - Technológiai terület (több válasz is lehetséges)

- Szál és fonal gyártó
- Szövés
- Kötés
- Nemszött-kelme gyártás
- Hímzés
- Festés/nyomás
- Kikészítés (laminálás, bevonás)
- Készruha, konfekció
- Textil újrahasznosítás
- Egyéb

A5 - Termék kategória (több válasz is lehetséges)

- Öltözék, ruházat
- Háztartási textil
- Műszaki textíliák
- Kiegészítők (zipzár, gombok, stb.)
- Egyéb

Megjegyzés:



B rész) – Éves hulladék mennyiség, hulladék visszanyerés és hulladék ártalmatlanítás/lerakás

B1 - Textilhulladék fajtái (több válasz is lehetséges)

Cotton	CO	Wool	WO	Polyamide	PA	Glass	GF
Linen	LI	Silk	SE	Polyester	PES	Carbon	CF
Kapok	KP	Acetate	CA	Polyacrylic-Nitrile	PAN	Metal	MTF
Hemp	HA	Cupra	CUP	Polyethylene	PE	Basalt	BA
Jute	JU	Lyocell	CLY	Polypropylene	PP	Ceramics	CER
Ramie	RA	Modal	CMD	Polyurethane	PUR	Feather	Feather
Sisal	SI	Triacetate	CTA	Polyvinyl chloride	PVC	Down	Down
Manila	AB	Viscose	CV	Aramid	AR	Others	OTH

Szál kg

Anyag*)
*) Rövidítés használata

Összetétel
**) Kérjük jelölje

~~0000:~~
~~fraktáció~~ mix szoros kapcsolódás ***
kapcsolódás nem textilipari komponensekkel

***) többretegű, bevont, kompozitok

További információ:

Fonal/Cérnázott fonal kg

Anyag*)
*) Rövidítés használata

Összetétel
**) Kérjük jelölje

~~0000:~~
~~fraktáció~~ mix szoros kapcsolódás ***
kapcsolódás nem textilipari komponensekkel

***) többretegű, bevont, kompozitok

További információ:



Textil kelme kg

Anyag*)
*) Rövidítés használata

Összetétel
**) Kérjük jelölje

frakció mix szoros kapcsolódás **kapcsolódás nem textilipari komponensekkel** *****)**

***) többletegű, bevont, kompozitok

További információ:

Textil kelme részei (kelmeszél, stb.) kg

Anyag*)
*) Rövidítés használata

Összetétel
**) Kérjük jelölje

frakció mix szoros kapcsolódás **kapcsolódás nem textilipari komponensekkel** *****)**

***) többletegű, bevont, kompozitok

További információ:

Szabászati/vágási hulladék kg

Anyag*)
*) Rövidítés használata

Összetétel
**) Kérjük jelölje

frakció mix szoros kapcsolódás **kapcsolódás nem textilipari komponensekkel** *****)**

***) többletegű, bevont, kompozitok

További információ:



Hibás, seleites, sérült termékek kg

Anyag*)
*) Rövidítés használata

Összetétel
**) Kérjük jelölje

ÜZÜG; fraktáció mix szoros kapcsolódás ***)
kapcsolódás nem textilipari komponensekkel

***) többletegű, bevont, kompozitok

További információ:

Egyéb kg

Anyag*)
*) Rövidítés használata

Összetétel
**) Kérjük jelölje

ÜZÜG; fraktáció mix szoros kapcsolódás ***)
kapcsolódás nem textilipari komponensekkel

***) többletegű, bevont, kompozitok

További információ:



B2 - További gyártásközi hulladék, amikre visszanyerési lehetőséget keresnek (több válasz is lehetséges)

- Karton, papírolemez kg
- Fólia kg
- Vegyszerek kg
- Fa kg
- Egyéb kg

B3 - Textilhulladék újrahasznosítás (a textilhulladék újrafelhasználása előkészítéssel vagy előkészítés nélkül a cégnél vagy külső cég által)

Újrahasznosítási módszer	Mennyiségek [kg]	Költségek (C) Árbevétel (R) [€]



B4 - Hulladék ártalmatlanítás (a hulladék nincs újrafelhasználva a gyártási folyamatokban)

Hulladék ártalmatlanítási módszer	Mennyiségek [kg]	Költségek (C) Árbevétel (R) [€]

Észrevétel:



C rész) – A jelenlegi helyzet értékelése a cég szemszögéből

C1 - Mennyire sürgős újrahaznosítási módszereket találni?

- Nagyon magas
- Magas
- Kevésbé magas
- Alacsony
- Jelentéktelen

C2 - Milyen súllyal bírnak a hulladék ártalmatlanítási költségek?

- Nagyon magas
- Magas
- Kevésbé magas
- Alacsony
- Jelentéktelen

C3 - Mik az okai a visszanyerés hiányának? (több válasz is lehetséges)

- Nincs elérhető technológiai vagy technikai megoldás
- Túl nagy erőfeszítéssel jár a nyilvántartás és a teljes folyamat (elkülönítés, raktározás, logisztika)
- Gazdasági szempontból nincs jelentősége
- Jogi szabályozás
- Információ hiány
- Erőforrás hiány
- Egyéb



SWOT analízis (C4-C7)

C4 - Milyen erősségei vannak a textilhulladék újrahasznosítási eljárásainak? (több válasz is lehetséges)

- Egy-frakciós
- Szeparált nyilvántartás
- Nagy mennyiségek
- Rendszeres hulladékképződés
- Értékes hulladék
- Az újrahasznosító cég kis távolságban van
- Egyéb

C5 - Milyen gyengeségei vannak a textilhulladék újrahasznosítási eljárásainak? (több válasz is lehetséges)

- Nem meghatározott hulladék
- Kis mennyiségek
- Nem rendszeres a hulladékképződés
- Rossz minőségű hulladék
- Az újrahasznosító cég nagy távolságban van
- Egyéb

C6 - Milyen lehetőségek vannak a textilhulladék újrahasznosítási eljárásaiban? (több válasz is lehetséges)

- Hulladék újrahasznosítás saját cégen belül (termelési ciklus)
- Újrafelhasználás a termelésben (saját vagy más cégnél)
- Hulladék továbbítás egy újrahasznosítási platformon keresztül
- Befektetés új technológiákba/pályázat finanszírozásra



- Tevékenységek a kutatás-fejlesztés területén)
- Egyéb

**C7 - Milyen veszélyek vannak a textilhulladék újrahasznosítási eljárásaiban?
(több válasz is lehetséges)**

- Magas feldolgozási költségek
- Szükséges befektetés a problémák megoldásába (további költségek)
- Piaci elfogadás hiánya az újrahasznosított termékek iránt
- Szennyezett hulladék, amik esetében például nincs lehetőség feldolgozásra
- Jogi szabályozás/rendelkezés (például REACH)
- Egyéb

**C8 - Mennyire tartja fontosnak az újabb információkat és oktatást/képzést a
textil újrahasznosítás területén?**

- Nagyon magas
- Magas
- Kevésbé magas
- Alacsony
- Jelentéktelen

9. Annex 4 - Poland questionnaire

Instruction

1. Company: It registers the user who will use the platform (<https://materialmatch.eu/admin/security/register>)
2. Company: fill in the data concerning the company of the registered user and the data on the waste (s) that the company wants to put on the platform
3. The partner together with the company: They will insert all the data shown in the blue part of the xls sheet

CONTACT DATA		
Point 1	NAME	
	SURNAME	
	E-MAIL ADDRESS	

COMPANY DATA		
Point 2 and Point 3 (PL)	Company name	
	VAT Registration number	
	id Country	Poland
	Id project	
	Town	
	STREET/SQUARE, NO	
	ZIP CODE	
	PLACE	
	PHONE	
	WEB SITE	
	NACE code	



ENTeR

General Information		Waste 1	Waste 2	Waste 3	Waste 4	Waste 5
WASTE NAME	main description (max 5 words)					
Outcoming Sector	indicate the main activity or factory sector that generate your waste					
EWG code	European Waste Catalogue					
Material tipe	Glass, Polymers, Ceramics, Metals, Carbon-based, Naturals, Wood, Chemical products, Textile, CDW Cement-based, etc					
Quantity	quantity of disposal per year in ton/y or equivalent units (l/y, m ³ /y)					
Unit	Kg/day, tons/year, liters/day or cubic meter/year					
Frequency	frequency of disposal (for example weekly, annual, occasional, seasonal)					
Management	Actual disposal method (e.g. incenerition, sell, recycling)					
Annual cost	Annual average cost for waste collection and disposal in €/y					
State						
Physical state	Solid, liquid, gas					
Appearance	Aggregate, Composite, Monomaterial, Bulk, Powder, Oil, Pellets, Fibres, Textile					
Composition 1	major component composition, with %					
Composition 2	minor component composition, with %, if any					
Composition 3	minor component composition, with %, if any					
Size	particle size and descriprion					
Containment	storage/disposal form (bags, bottles, etc)					
Toxicity	risk assessment form safety data sheet					
Contaminants						
Visual properties	opaque/transparent, Solid colour, Gradient, Effects					

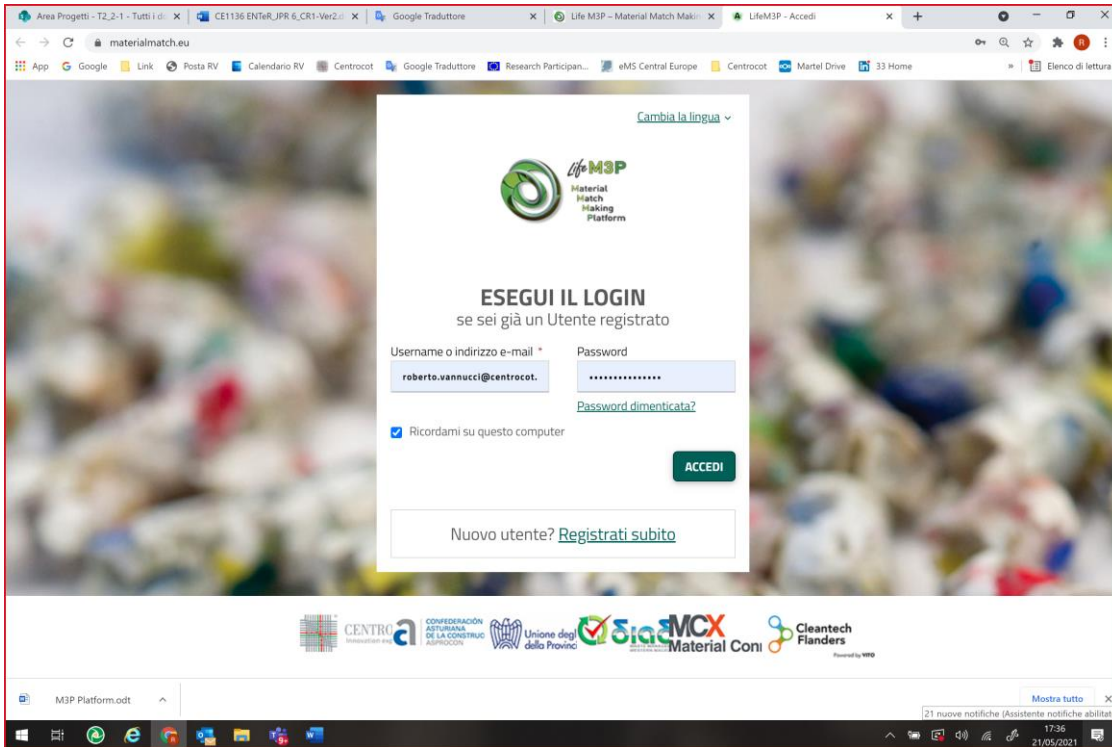


ENTeR

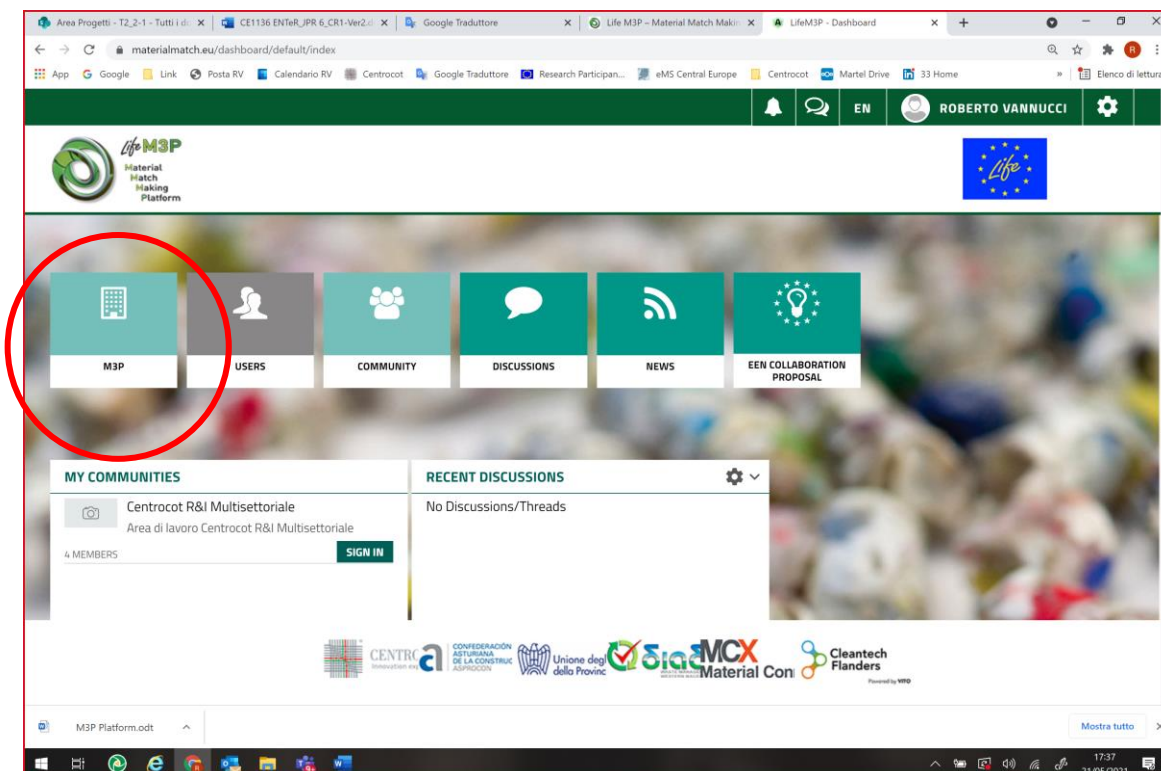
	Tactile properties	hard/soft, smooth/coarse/texturized, warm/cold					
	Odour	if any					
	Functional properties	tough/brittle, stiff/flexible					
	Tag	max 5					
	Image Files						

10. Annex 5 - M3P Platform Screenshots

Login on Material Match Making Platform (https://materialmatch.eu/admin/security/login)

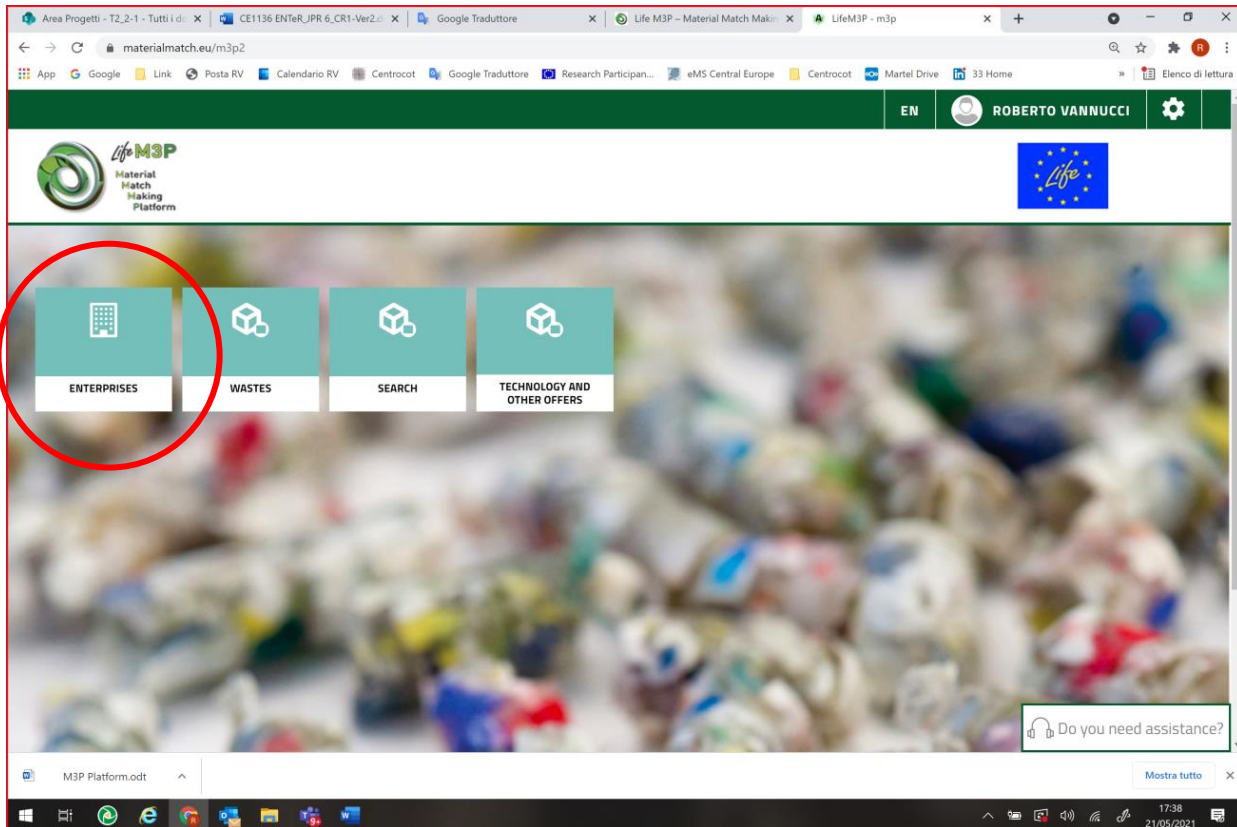


Entering on M3P





Looking at Enterprises



Area Progetti - T2_2-1 - Tutti i di... CE1136 ENTeR_JPR 6_CR1-Ver2... Google Traduttore Life M3P - Material Match Makin... LifeM3P - m3p

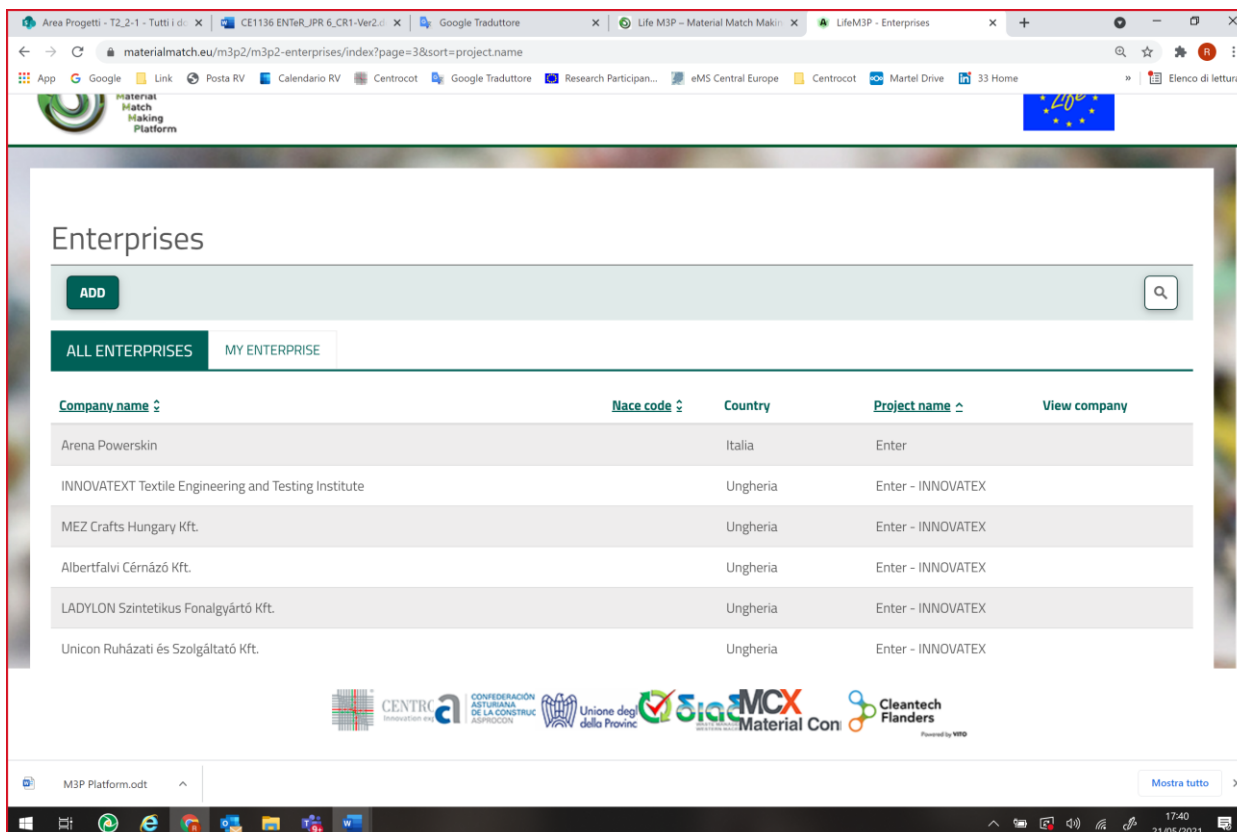
materialmatch.eu/m3p2

EN ROBERTO VANNUCCI

LifeM3P
Material Match Making Platform

Do you need assistance?

M3P Platform.odt



Area Progetti - T2_2-1 - Tutti i di... CE1136 ENTeR_JPR 6_CR1-Ver2... Google Traduttore Life M3P - Material Match Makin... LifeM3P - Enterprises







materialmatch.eu/m3p2/m3p2-enterprises/index?page=3&sort=project.name

Enterprises

ADD

ALL ENTERPRISES MY ENTERPRISE

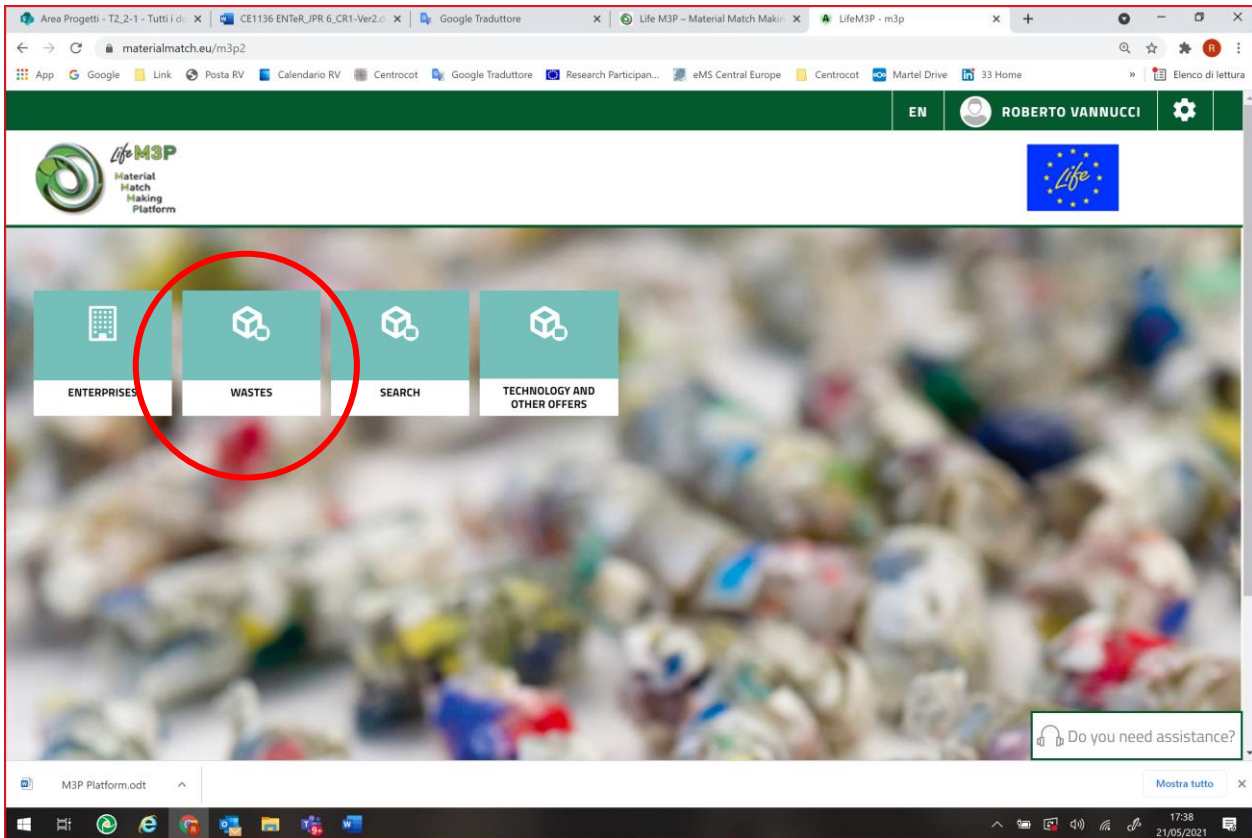
Company name ↕	Nace code ↕	Country	Project name ↕	View company
Arena Powerskin		Italia	Enter	
INNOVATEX Textile Engineering and Testing Institute		Ungheria	Enter - INNOVATEX	
MEZ Crafts Hungary Kft.		Ungheria	Enter - INNOVATEX	
Albertfalvi Cernázó Kft.		Ungheria	Enter - INNOVATEX	
LADYLON Szintetikus Fonalgyártó Kft.		Ungheria	Enter - INNOVATEX	
Unicon Ruházati és Szolgáltató Kft.		Ungheria	Enter - INNOVATEX	

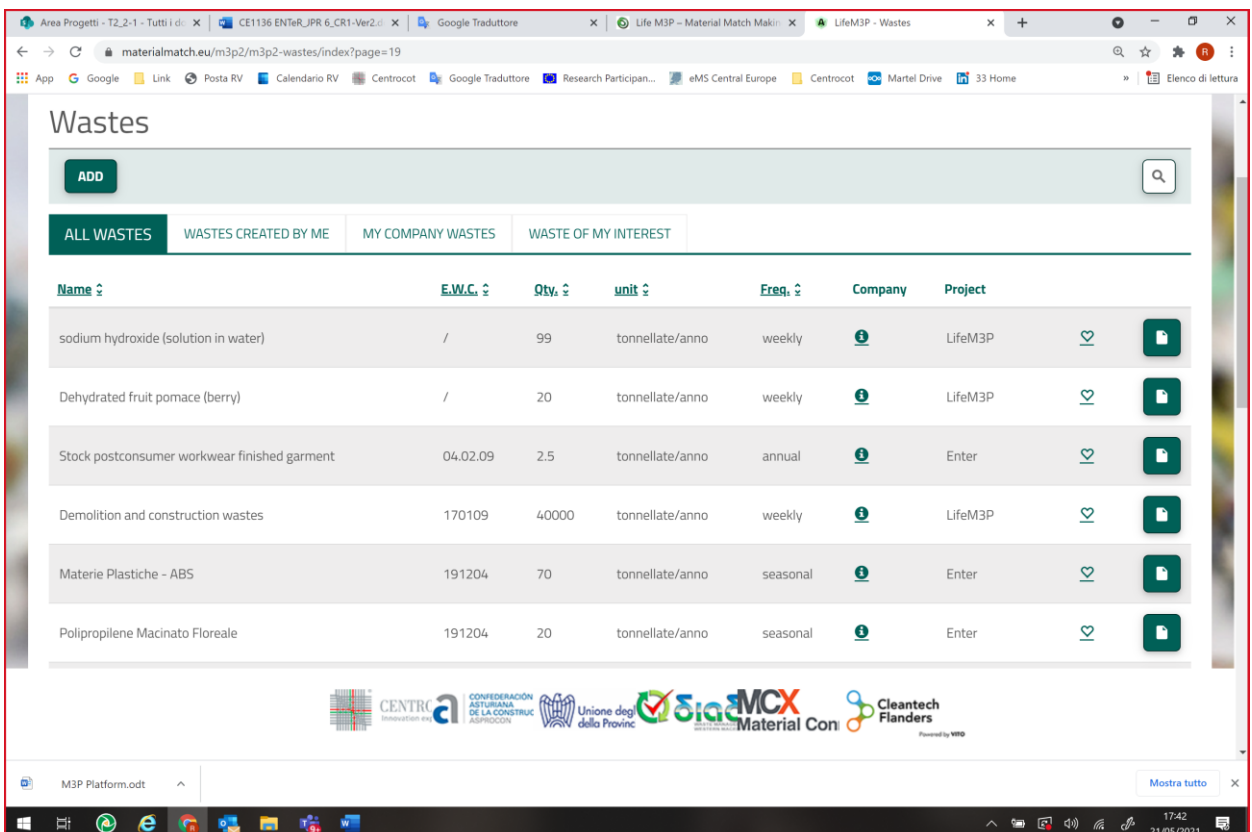
M3P Platform.odt



Looking at waste



The screenshot shows the homepage of the LifeM3P Material Match Making Platform. The navigation menu includes: ENTERPRISES, **WASTES** (circled in red), SEARCH, and TECHNOLOGY AND OTHER OFFERS. The background features a blurred image of various waste materials.



The screenshot displays the 'Wastes' database page. It includes a search bar with an 'ADD' button and a search icon. Below the search bar are tabs for 'ALL WASTES', 'WASTES CREATED BY ME', 'MY COMPANY WASTES', and 'WASTE OF MY INTEREST'. The main content is a table listing various waste types with their properties.

Name	E.W.C.	Qty.	unit	Freq.	Company	Project		
sodium hydroxide (solution in water)	/	99	tonnellate/anno	weekly		LifeM3P		
Dehydrated fruit pomace (berry)	/	20	tonnellate/anno	weekly		LifeM3P		
Stock postconsumer workwear finished garment	04.02.09	2.5	tonnellate/anno	annual		Enter		
Demolition and construction wastes	170109	40000	tonnellate/anno	weekly		LifeM3P		
Materie Plastiche - ABS	191204	70	tonnellate/anno	seasonal		Enter		
Polipropilene Macinato Floreale	191204	20	tonnellate/anno	seasonal		Enter		

At the bottom of the page, there are logos for partner organizations: CENTREC, CONFEDERACION ASTURIANA DE LA CONSTRUCCION ASPROCON, Unione degli Esperti della Provincia, Sigas MCX Material Con, and Cleantech Flanders. The page is powered by VMO.