





Overview of projects funded by Refashion

As part of the Industrial Challenge and Innovation Challenge
calls for projects since 2010

Challenge Industriel
Re_fashion










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









































Strategic line	Category of products concerned
 Automated sorting and preprocessing for recycling	 Textiles
 Recycling of CHF	 Footwear




















































N°	Project leader name Project name	Project	Region / Country	CFP	Strat. line	Status
1 	DAGOBARE DAGOFELT	Installation of a complete tearing and non-woven production line for the insulation market.	Hauts-de-France	2024	 + 	NEW
2 	DELORGE RECYCLING ENHANCED SORTING AND CUTTING	Installation of an automated optical sorting line and cutting machines for recycling non-reusable used textiles, mainly for the non-wovens market.	Belgique	2024	 + 	NEW
3 	ESSAIMONS ECOTEX LOOP	Implementing and industrially deploying an automated sorting line using spectral recognition to prepare 10,000 to 12,000 tonnes of textiles a year mainly for closed-loop recycling.	Nouvelle Aquitaine	2024		NEW
4 	NOUVELLES FIBRES TEXTILES PARETO	Development of the current demonstrator and creation of an industrial-scale plant for automated sorting of textiles by composition and colour, and preparation for recycling (trims removal and tearing).	Auvergne-Rhône-Alpes	2024		NEW
5 	RECYCL'OCC RECYCLOCAL TEXTILES	Creation of an industrial unit for automated sorting and material preparation for recycling (trims removal) of post-consumer used textiles.	Occitanie	2024		NEW
6 	VOSGES TLC LE TRI DES FIBRES DANS LE 88	Installation of an automated optical sorting line for non-reusable used textiles by composition and colour, to direct them towards high-quality recycling outlets in France.	Grand Est	2024		NEW























































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















































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Strategic line	Status	Category of products concerned
 Eco-design of products from the CHF sector	 Projects abandoned/inconclusive results	 Textiles
 Preparation of materials for recycling	 Projects finalized/conclusive results with validated prototype	 Footwear
 Recycling and/or incorporation of recycled materials from CHF	 Projects in progress	
	 Projects finalized/industrial pilots validated	

N°	Project leader name Project name	Project	Region / Country	CFP	Strat. line	Status
1 	BIC ISOKTEX	Developing an innovative textile insulation.	Auvergne-Rhône-Alpes	2010		
2 	NOVAFLOOR NOVATEX	Incorporating end-of-life textiles as inert fillers in decorative plates.	Hauts-de-France	2010		
3 	DECATHLON OXYLANE	Manufacturing polyester yarn from post-consumer polyester textiles.	Hauts-de-France	2010	 + 	
4 	PÔLE ÉCO-INDUSTRIES POITOU-CHARENTES MULTITEX	Developing a process for chemical separation of used mixed textiles.	Nouvelle Aquitaine	2011		
13 	PÔLE ÉCO INDUSTRIES POITOU-CHARENTES MULTITEX 2	Feasibility study of a pilot enabling the chemical separation of used mixed textile materials.	Nouvelle Aquitaine	2013		
5 	FILATURES DU PARC FILATURES DU PARC	Manufacturing recycled wool yarns of the same quality as yarns made with virgin wool fibres.	Occitanie	2011		
6 	TRUCS-TROUVAILLES TRUCS-TROUVAILLES	Recycling rubber soles into new soles.	Île-de-France	2011		
7 	AGENCE AIR COOP FOOTWEAR RECYCLING PROJECT	Developing and testing an industrial grinding and separation process in view of creating a footwear recycling pilot line.	Auvergne-Rhône-Alpes	2012	 + 	
18 	AGENCE AIR COOP FOOTWEAR RECYCLING PILOT LINE	Improving the purity of the resulting materials (leather/rubber) and output from the recycling line.	Auvergne-Rhône-Alpes	2014	 + 	
8 	FRAMIMEX VIACOVER	Developing an exterior sound insulation shield in lightweight concrete integrating post-consumer textile fibres.	Hauts-de-France	2012		
9 	FEYECON SEPREX DECOTEX 1	Developing an undyeing process for used polyester clothes to enable their recycling.	Grand Est	2012		
21 	SEPREX DECOTEX 2	Moving the DécoTex I project (FEYECON) - supercritical CO ₂ undyeing technology to pilot scale.	Grand Est	2015		
10 	CC PAYS DE COLOMBEY & SUD TOULOUS RECYTEX	Technical, economical and commercial feasibility study of creating a rigid decorative tile integrating 20 to 50% of used textiles.	Grand Est	2012		

N°	Project leader name Project name	Project	Region / Country	CFP	Strat. line	Status
11 	PRÉMICES & CO. BÉTON DE CHIFFON	Creating a range of decorative acoustic products entirely made from recycled textiles.	Île-de-France	2013		
27 	PRÉMICES & CO. PIERRE PLUME	Finishing the «Béton de chiffon» project and developing it to industrial scale.	Île-de-France	2016		
12 	MAPEA ÉCO-CHARGES	Recycling of used cotton and polycotton clothes for use as reinforcement in the plastics industry.	Auvergne-Rhône-Alpes	2013		
14 	LE RELAIS EKOROOM	Developing acoustic suspended ceiling tiles from recycled textiles.	Hauts-de-France	2014		
15 	FILATURES DU PARC PARCOT	Developing a defibration method for recycling used polycotton clothes into materials suitable for weaving or knitting new clothing products.	Occitanie	2014		
16 	MINOT RECYCLAGE TEXTILE MINOT RECYCLAGE TEXTILE	Optimising the end-of-life textiles recycling process in order to achieve a higher percentage of used textiles in the garnetting process.	Hauts-de-France	2014		
17 	CHAUSSETTES ORPHELINES ANIMA	Recycling used socks into a recycled yarn for use in hosiery.	Île-de-France	2014		
19 	WECOSTA SILENCIO	Developing an eco-friendly acoustic silencer for housing ventilation systems.	Hauts-de-France	2015		
20 	IN SOFT ECTOR	Developing an eco-designed shoe with a knitted fabric upper.	Auvergne-Rhône-Alpes	2015		
34 	IN SOFT ECTOR SE RECYCLE	Recycling the Ector eco-designed shoes.	Auvergne-Rhône-Alpes	2017		
22 	SYNERGIES TLC AUTOTRI	Studying and developing a new sorting method for non reusable textiles in oder to use these secondary materials.	Auvergne-Rhône-Alpes	2015		
23 	CETI DELISS	Studying and developing either automatic or semi-automatic processes for removing trims from used clothing to facilitate recycling.	Hauts-de-France	2016		
24 	CTC GROUPE THERMICUIR	Recovering heat from waste leather from end-of-life shoes.	Auvergne-Rhône-Alpes	2016		
25 	LA MANUFACTURE GROUPE ERAM DESIGN FOR REPAIR	Developing a new design and manufacturing process allowing for easy disassembly of all components in a shoe at end of life.	Pays de la Loire	2016		
26 	L'ÉQUIPE 1083 JEANS RECYCLÉS	Developing a recycled cotton yarn from old jeans.	Auvergne-Rhône-Alpes	2016		
28 	SILAC INDUSTRIE ECO3F	Making a range of acoustic insulation for the automotive industry from used textile materials.	Nouvelle Aquitaine	2016		
29 	IFTH / UTT / LE RELAIS CAREFIL	Improving the quality of yarns made from recycled used clothes.	Hauts-de-France	2017		

N°	Project leader name Project name	Project	Region / Country	CFP	Strat. line	Status
30 	CID PROCESS CID PROCESS	Mechanical separation of cotton and elastane in used jeans.	Auvergne-Rhône-Alpes	2017		
31 	L'ÉQUIPE 1083 CELL-JEANS	Wet-spinning cotton waste from used jeans in order to create a man-made cellulosic fibre.	Auvergne-Rhône-Alpes	2017		
32 	CAMY HODEI	Designing and developing a modular, monomaterial and recyclable shoe.	Île-de-France	2017		
33 	AUDACIE PLAS'TILE	Recycling used non-reusable textiles into plastic resins.	Nouvelle Aquitaine	2017		
35 	AGENCE AIR COOP REVIVE/RECYCLE	Setting up a pilot project for repairing used clothes and preparing them for recycling.	Espagne	2017		
36 	LES TISSAGES DE CHARLIEU LES TISSAGES DE CHARLIEU	Improving, in terms of technology and industrial process, an article entirely made of recycled post-consumer intra-European polyester, and assessing the difference between cost price and market price.	Auvergne-Rhône-Alpes	2017		
37 	AUCHAN RECYC'LAB	Recovering fibres from end-of-life clothing into mobile phone cases using the Roctool induction heating technology.	Hauts-de-France	2018		
38 	DECATHLON 4RFID	Developing a pilot to achieve textiles' traceability, allowing for their end-of-life management, thanks to the RFID technology.	Hauts-de-France	2018		
39 	FCBA MOBIOTEX	Assessing the possibilities of using recycled textile fibres as an essential component of wood framed constructions.	Île-de-France	2018		
40 	MAXIMUM TISSIUM	Developing a rigid material made from textile waste fibres intended for furniture manufacturing for the tertiary sector.	Île-de-France	2018		
56 	MAXIMUM TISSIUM INDUSTRIE	Development of a pilot production unit of the rigid composite material Tissium, made from recycled textile waste, in the form of machinable panels for the furniture and furnishing markets.	Île-de-France	2021		
41 	TECHTERA JEPLAN	Assessing the reliability of an implantation project in France of a JEPLAN's plant for recycling used polyester textiles into recycled PET pellets.	Auvergne-Rhône-Alpes	2018		
42 	VERT-TICAL NORD ÉCO-LOGIC WALL	Developing a green wall using recycled textiles to replace substrates and sphagnum (natural moss) currently used.	Hauts-de-France	2018		
55 	VERT-TICAL NORD SOLIOTI	Development of a full size (> 50m2) green wall demonstrator integrating a recycled textile nonwoven and an optimised watering system.	Hauts-de-France	2020		
43 	WECOSTA QWIET	Developing solutions to improve the acoustic comfort in public spaces (offices, industrial premises, etc.) by using ecological materials including materials from the used textiles sector.	Hauts-de-France	2018		
44 	CYCL-ADD TEXTIC	Developing a recycling process for used non reusable polyamide clothing, including sorting, trimming, characterisation, micronization and compounding for plastics making.	Auvergne-Rhône-Alpes	2019		
45 	FABBRICK FABBRICK	Developing a structural, insulating and aesthetic construction material from recycled used textiles.	Île-de-France	2019		
46 	FILATURES DU PARC PAMREC	Recycling used polyamide clothes into a recycled yarn for use in textile products.	Occitanie	2019		

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47 	HUMEAU BEAUPRÉAU CIRCULAR BOOT (REBOOT)	Pre-study on the feasibility and cost of recycling used PVC footwear; and testing of a recycling loop with defining specifications for setting up the recycling loop at an industrial scale.	Pays de la Loire	2019	 + 	
48 	IDELAM RECHAUSS	Developing an innovative technology for delaminating shoes (leather/textile) by supercritical fluid and a new recycling loop for used shoes.	Nouvelle Aquitaine	2019		
68 	IDELAM RECHAUSS 2	Completion of the study on the delamination of non-reusable post-consumer footwear using the IDELAM process, focusing on the recyclability of delaminated materials and optimization of the process.	Nouvelle Aquitaine	2024	 + 	NEW
49 	LE SLIP FRANÇAIS LE SLIP CIRCULAIRE	Developing a yarn containing the highest possible % of recycled cotton with a fineness up to 1/60Nm from used underwear and socks for use in the making of Le Slip Français' products.	Île-de-France	2019	 + 	
50 	SYNERGIES TLC UTILE	Feasibility study of setting an industrial unit for the trimming and sorting of used cotton, polyester and polyamide textiles (100% and blends), based on materials specifications defined with recyclers.	Auvergne-Rhône-Alpes	2019		
51 	VALVAN TRIMCLEAN	Development of an automated integrated solution that allows the removal of trims (including labels, buttons, zippers etc.) from used clothing.	Belgique	2019		
52 	LA MANUFACTURE GROUPE ERAM ZAPATEKO II	Development of a demonstrator for disassembling non-reusable footwear via automated sorting and assisted pulling.	Pays de la Loire	2020		
53 	NOLT (PHENIX SPORT) R-SHAPE	Developing a demonstrator for recycling non-reusable polyester sportswear into a plastic composite material used to create sport accessories for sports clubs.	Provence-Alpes-Côte-d'Azur	2020		
54 	SOEX TexID	Developing an automated sorting pilot line for textile materials recognition though NIR spectroscopy to the industrial scale.	Allemagne	2020		
57 	THE 8 IMPACT THE 8 IMPACT	Building a demonstrator using EVA (elastomeric polymer) derived from the recycling of used sneakers' outsoles to make underlay for parquet flooring.	Auvergne-Rhône-Alpes	2021	 + 	
58 	CEA MISTERY	Prototyping the use of multispectral optical sensors for the characterization of used household textiles.	Auvergne-Rhône-Alpes	2021		
59 	INDUO GREENCOSE	Testing the Greencose chemical recycling process on cotton-rich used textiles feedstock.	Hauts-de-France	2021		
60 	RECYC'ELIT AURAREFIL	Adapting the Recyc'Elit chemical recycling process to transform post-consumer non-reusable polyester textiles (pure and blended) into recycled polyester threads.	Auvergne-Rhône-Alpes	2021		
61 	NOLT LE MAILLOT INFINI	Chemical recycling of post-consumer polyester sportswear to create a recycled polyester yarn and ultimately new sportswear.	Provence-Alpes-Côte-d'Azur	2023	 + 	
62 	CEA UPNYL-TEX	Chemical recycling of polyamides from non-reusable post-consumer textiles to create new high-value materials that can be used in other industries.	Île-de-France	2023		

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63 	WECOSTA INJECTIL	Thermo-mechanical characterization of injected products derived from recycled post-consumer textile materials, via a proprietary injection process.	Hauts-de-France	2023		
64 	LA MANUFACTURE GROUPE ERAM PURE	Recycling of polyurethane foams from post-consumer footwear mixed with footwear production waste to create foam substrates that can be incorporated into new shoes.	Pays de la Loire	2023	 + 	
65 	CANOE CALICO	Recycling and high added value recovery of non-reusable post-consumer acrylic textiles into carbon fibers.	Nouvelle Aquitaine	2024		NEW
66 	MUOVI VALOTEX PES	Thermomechanical recycling of different non-reusable post-consumer polyester textiles, characterization of the resulting recycled materials, and evaluation of their potential applications.	Grand Est	2024		NEW
67 	SYNTETICA SYNTETICA	Chemical recycling of non-reusable post-consumer tights to produce 100% recycled nylon yarn and create new pairs of tights, in close collaboration with DIM Brands International.	Grand Est	2024		NEW
69  	PLAS'TRI IDENTIFICATION NOIR & MULTICOUCHES	Development of a new method to identify the material composition of black non-reusable post-consumer textiles/footwear and multilayered textiles.	Auvergne-Rhône-Alpes	2024		NEW
70 	RE-FRESH GLOBAL OPEN & CLOSED LOOP	Utilization of Re-Fresh Global's patented biotechnological process for fiber separation, boosting the recycling of non-reusable post-consumer textile waste, with a hight conversion rate.	Allemagne	2024	 + 	NEW