

Overview of projects funded by Refashion

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

Challenge Industriel
Re_fashion

KEY

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	DAGOBAIRE 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
7	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		

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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 garning 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 order 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		

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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 PLASTILE	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 through 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		

N°	Project leader name Project name	Project	Region / Country	CFP	Strat. line	Status
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 high conversion rate.	Allemagne	2024	 + 	NEW