

2026

# Overview of R&D projects funded by Refashion




Since 2010 within the framework of the Call for R&D Partnerships and the Industrial & Innovation Challenges.

**Innovation Projects**  
Re\_fashion





**Industrialization Projects**  
Re\_fashion

## KEY

### Strategic line

-  Eco-design of products from the CHF sector
-  Automated sorting and/or preprocessing of materials for recycling
-  Recycling and/or incorporation of recycled materials from CHF

### Status




























-  Project finalized/industrial pilot validated
  -  Project finalized/conclusive result with validated prototype
  -  Project abandoned/inconclusive result
  -  Project in progress
- NEW New project

### Category of products concerned

-  Clothing and household linen
-  Footwear





















CHF = Clothing, Household linen, Footwear






































**Re\_fashion**

	Project leader name Project name	Project	Region / Country	Year	Strat. area	Status
1 	<b>BUITEX</b> PROJECT L5	Installation of a new line 100% dedicated to post-consumer textiles, in order to increase production capacity and supply.	Auvergne-Rhône-Alpes	2025		NEW
2 	<b>FAURECIA</b> PROJECT RePET	Study on discoloration and characterisation of recycled polyester (rPET) derived from the chemical recycling process co-developed with partner CEA Liten, applied to non-reusable post-consumer multilayer polyester textiles.	Île-de-France	2025		NEW
3 	<b>LA MANUFACTURE 49 GROUPE ERAM</b> PROJECT ReRub	Feasibility study on the incorporation of post-consumer recycled rubber at industrial scale, in collaboration with The 8 Impact, into the soles of future TBS and Sessile products.	Pays de la Loire	2025		NEW
4 	<b>MAPEA</b> PROJECT TEXTIUM 700	Scaling-up of the Textium densification process for post-consumer polyester (PES PCR) textiles, aiming at producing densified pellets for feeding chemical and enzymatic recycling technologies.	Auvergne-Rhône-Alpes	2025		NEW
5 	<b>PETSHKA</b> PROJECT SOLE-TO-POLYOL	Recycling of polyurethane soles from non-reusable post-consumer footwear into polyester polyol, through PETSHKA's chemical recycling technology and the development of footwear material sorting by WASTEX, and incorporation trials by the ERAM Group.	Occitanie	2025		NEW
6 	<b>VALONE</b> PROJECT CHAUSSURES DE TRAIL RÉPARABLES	Development of a high-performance, durable and repairable trail running shoe, able to reach 3,000 km of use.	Pays de la Loire	2025		NEW
7 	<b>CANOE</b> PROJECT CALICO	Recycling and high added-value recovery of non-reusable post-consumer acrylic textiles into carbon fibers.	Nouvelle Aquitaine	2024		
8 	<b>DAGOBAIRE</b> PROJECT DAGOFELT	Installation of a complete tearing and non-woven production line for the insulation market.	Hauts-de-France	2024		
9 	<b>DELORGE RECYCLING</b> PROJECT ENHANCED SORTING AND CUTTING	Installation of an automated optical sorting line and cutting machines for recycling non-reusable post-consumer textiles, mainly for the nonwovens market.	Belgique	2024		
10 	<b>ESSAIMONS</b> PROJECT ECOTEX LOOP	Implementing and industrially deploying an automated sorting line using spectral recognition to prepare 10,000 to 12,000 tonnes of textiles per year, mainly for closed-loop recycling.	Nouvelle Aquitaine	2024		
11 	<b>IDELAM</b> PROJECT 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 process optimization.	Nouvelle Aquitaine	2024		
12 	<b>LES TISSAGES DE CHARLIEU</b> PROJECT ADELANTE	Acquisition of an unraveling/tearing line dedicated to post-consumer clothing and household linen of various colours, to produce recycled fibres for spinning and nonwovens applications.	Auvergne-Rhône-Alpes	2024		
13 	<b>MUOVI</b> PROJECT 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		
14 	<b>NOUVELLES FIBRES TEXTILES</b> PROJECT PARETO	Scaling-up of the current demonstrator and creation of an industrial-scale plant for automated sorting of textiles by composition and colour, and preprocessing for recycling (trims removal and pre-tearing).	Auvergne-Rhône-Alpes	2024		
15 	<b>PLAS'TRI</b> PROJECT IDENTIFICATION NOIR & MULTI-COUCHES	Development of a new method to identify the material composition of non-reusable post-consumer black textiles/footwear and multilayered textiles.	Auvergne-Rhône-Alpes	2024		
16 	<b>RECYCLOCAL TEXTILES</b> PROJECT RECYCLOCAL TEXTILES	Creation of an industrial unit for material automated sorting and preprocessing for recycling (trims removal) of post-consumer textiles.	Occitanie	2024		

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17 	<b>RE-FRESH GLOBAL</b> PROJECT OPEN & CLOSED LOOP	Utilization of Re-Fresh Global's patented biotechnological process for fiber separation, for boosting non-reusable post-consumer textile waste recycling with a high conversion rate.	Allemagne	2024		
18 	<b>SYNETICA</b> PROJECT SYNETICA	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		
19 	<b>CEA</b> PROJECT UPNYL-TEX	Chemical recycling of polyamides from non-reusable post-consumer textiles to create new high-value materials for use in other industries.	Île-de-France	2023		
20 	<b>LA MANUFACTURE GROUPE ERAM</b> PROJECT 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		
21 	<b>NOLT</b> PROJECT 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		
22 	<b>WECOSTA</b> PROJECT INJECTIL	Thermo-mechanical characterization of injected products derived from recycled post-consumer textile materials, via a proprietary injection process.	Hauts-de-France	2023		
23 	<b>CEA</b> PROJECT MISTERY	Prototyping the use of multispectral optical sensors for the characterization of post-consumer household textiles.	Auvergne-Rhône-Alpes	2021		
24 	<b>INDUO</b> PROJECT GREENCOSE	Testing the Greencose chemical recycling process on cotton-rich post-consumer textiles feedstock.	Hauts-de-France	2021		
25 	<b>MAXIMUM</b> PROJECT 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		
26 	<b>RECYC'ELIT</b> PROJECT 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		
27 	<b>THE 8 IMPACT</b> PROJECT THE 8 IMPACT	Building a demonstrator using EVA (elastomeric polymer) derived from the recycling of post-consumer sneakers' outsoles to make underlay for parquet flooring.	Auvergne-Rhône-Alpes	2021		
28 	<b>LA MANUFACTURE GROUPE ERAM</b> PROJECT ZAPATEKO II	Development of a demonstrator for disassembling non-reusable footwear via automated sorting and assisted pulling.	Pays de la Loire	2020		
29 	<b>NOLT (PHENIX SPORT)</b> PROJECT 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		
30 	<b>SOEX</b> PROJECT TextID	Developing an automated sorting pilot line for textile materials recognition through NIR spectroscopy to industrial scale.	Allemagne	2020		
31 	<b>VERT-TICAL NORD</b> PROJECT SOLIOTI	Development of a full size (> 50sqm) green wall demonstrator integrating a recycled textile nonwoven and an optimised watering system.	Hauts-de-France	2020		
32 	<b>CYCL-ADD</b> PROJECT TEXTIC	Developing a recycling process for post-consumer non-reusable polyamide clothing, including sorting, trimming, characterisation, micronization and compounding for plastics making.	Auvergne-Rhône-Alpes	2019		

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33 	<b>FABBRICK</b> PROJECT FABBRICK	Developing a structural, insulating and aesthetic construction material from recycled post-consumer textiles.	Île-de-France	2019		
34 	<b>FILATURES DU PARC</b> PROJECT PAMREC	Recycling post-consumer polyamide clothes into a recycled yarn for use in textile products.	Occitanie	2019		
35 	<b>HUMEAU BEAUPRÉAU</b> PROJECT CIRCULAR BOOTS (REBOOT)	Pre-study on the feasibility and cost of recycling post-consumer PVC footwear, and testing of a recycling loop with defining specifications for setting it up at industrial scale.	Pays de la Loire	2019		
36 	<b>IDELAM</b> PROJECT RECHAUSS	Developing an innovative technology for delaminating shoes (leather/textile) by supercritical fluid and of a new recycling loop for post-consumer footwear.	Nouvelle Aquitaine	2019		
37 	<b>LE SLIP FRANÇAIS</b> PROJECT LE SLIP CIRCULAIRE	Developing a yarn containing the highest possible % of recycled cotton with a fineness up to 1/60Nm from post-consumer underwear and socks for use in the making of Le Slip Français' products.	Île-de-France	2019		
38 	<b>SYNERGIES TLC</b> PROJECT UTILE	Feasibility study of setting an industrial unit for the trimming and sorting of post-consumer cotton, polyester and polyamide textiles (100% and blends), based on materials specifications defined with recyclers.	Auvergne-Rhône-Alpes	2019		
39 	<b>VALVAN</b> PROJECT TRIMCLEAN	Development of an automated integrated solution that allows the removal of trims (including labels, buttons, zippers, etc.) from post-consumer clothing.	Belgique	2019		
40 	<b>AUCHAN</b> PROJECT RECYC'LAB	Recovering fibres from end-of-life clothing into mobile phone cases using the Roctool induction heating technology.	Hauts-de-France	2018		
41 	<b>DECATHLON</b> PROJECT 4RFID	Developing a pilot to achieve textiles' traceability, allowing for their end-of-life management, thanks to the RFID technology.	Hauts-de-France	2018		
42 	<b>FCBA</b> PROJECT MOBIOTEX	Assessing the possibilities of using recycled textile fibres as an essential component of wood framed constructions.	Île-de-France	2018		
43 	<b>MAXIMUM</b> PROJECT TISSIUM	Developing a rigid material made from textile waste fibres intended for furniture manufacturing for the tertiary sector.	Île-de-France	2018		
44 	<b>TECHTERA</b> PROJECT JEPLAN	Assessing the reliability of an implantation project in France of a JEPLAN's plant for recycling post-consumer polyester textiles.	Auvergne-Rhône-Alpes	2018		
45 	<b>VERT-TICAL NORD</b> PROJECT ÉCO-LOGIC WALL	Developing a green wall using recycled textiles to replace currently used substrates and sphagnum (natural moss).	Hauts-de-France	2018		
46 	<b>WECOSTA</b> PROJECT QWIET	Developing solutions to improve the acoustic comfort in public spaces (offices, industrial premises, etc.) by using ecological materials integrating materials from post-consumer textiles.	Hauts-de-France	2018		
47 	<b>AGENCE AIR COOP</b> PROJECT REVIVE/ RECYCLE	Setting up a pilot project for repairing post-consumer clothes and preprocessing them for recycling.	Espagne	2017		
48 	<b>AUDACIE</b> PROJECT PLAS'TILE	Recycling post-consumer non-reusable textiles into plastic resins.	Nouvelle Aquitaine	2017		
49 	<b>CAMY</b> PROJECT HODEI	Designing and developing a modular, monomaterial and recyclable shoe.	Île-de-France	2017		

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50 	<b>CID PROCESS</b> PROJECT CID PROCESS	Mechanical separation of cotton and elastane in post-consumer jeans.	Auvergne-Rhône-Alpes	2017		✗
51 	<b>IFTH / UTT / LE RELAIS</b> PROJECT CAREFIL	Improving the quality of yarns made from recycled post-consumer clothes.	Hauts-de-France	2017		✓
52 	<b>IN SOFT</b> PROJECT ECTOR SE RECYCLE	Recycling the Ector eco-designed shoes.	Auvergne-Rhône-Alpes	2017		✗
53 	<b>L'ÉQUIPE 1083</b> PROJECT CELL-JEANS	Wet-spinning cotton waste from post-consumer jeans to create a man-made cellulosic fibre.	Auvergne-Rhône-Alpes	2017		✓
54 	<b>LES TISSAGES DE CHARLIEU</b> PROJECT 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		✗
55 	<b>CETI</b> PROJECT DELISS	Studying and developing either automatic or semi-automatic processes for removing trims from post-consumer clothing before recycling.	Hauts-de-France	2016		✓
56 	<b>CTC GROUPE</b> PROJECT THERMICUIR	Developing heat recovery of waste leather from end-of-life shoes.	Auvergne-Rhône-Alpes	2016		✓
57 	<b>LA MANUFACTURE GROUPE ERAM</b> PROJECT 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		✓
58 	<b>L'ÉQUIPE 1083</b> PROJECT JEANS RECYCLÉS	Developing a recycled cotton yarn from old jeans.	Auvergne-Rhône-Alpes	2016		✓
59 	<b>PRÉMICES &amp; CO.</b> PROJECT PIERRE PLUME	Finishing the «Béton de chiffon» project and developing it to industrial scale.	Île-de-France	2016		✓
60 	<b>SILAC INDUSTRIE</b> PROJECT ECO3F	Making a range of acoustic insulation from post-consumer textile materials for the automotive industry.	Nouvelle Aquitaine	2016		✓
61 	<b>IN SOFT</b> PROJECT ECTOR	Developing an eco-designed shoe with a knitted fabric upper.	Auvergne-Rhône-Alpes	2015		✓
62 	<b>SEPAREx</b> PROJECT DECOTEX 2	Moving the DecoTex I project (FEYECON) - supercritical CO <sub>2</sub> bleaching technology to pilot scale.	Grand Est	2015		✗
63 	<b>SYNERGIES TLC</b> PROJECT AUTOTRI	Studying and developing a new sorting method for non-reusable textiles in order to recover their materials.	Auvergne-Rhône-Alpes	2015		✗
64 	<b>WECOSTA</b> PROJECT SILENCIO	Developing an eco-friendly acoustic silencer for housing ventilation systems.	Hauts-de-France	2015		✓
65 	<b>AGENCE AIR COOP</b> PROJECT FOOTWEAR RECYCLING PILOT LINE	Improving the purity of the resulting materials (leather / rubber) and the throughput of the recycling line.	Auvergne-Rhône-Alpes	2014		✓
66 	<b>CHAUSSETTES ORPHELINES</b> PROJECT ANIMA	Recycling post-consumer socks into a recycled yarn for use in hosiery.	Île-de-France	2014		✓
67 	<b>FILATURES DU PARC</b> PROJECT PARCOT	Developing an unraveling method for recycling post-consumer polycotton clothes into materials suitable for weaving or knitting new clothing products.	Occitanie	2014		✓
68 	<b>LE RELAIS</b> PROJECT EKOROOM	Developing acoustic suspended ceiling tiles from recycled textiles.	Hauts-de-France	2014		✗
69 	<b>MINOT RECYCLAGE TEXTILE</b> PROJECT MINOT RECYCLAGE TEXTILE	Optimising the end-of-life textiles recycling process in order to achieve a higher rate of post-consumer textiles in the garnetting process.	Hauts-de-France	2014		✗

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70 	<b>MAPEA</b> PROJECT ÉCO-CHARGES	Recycling of post-consumer cotton and polycotton clothes for use as reinforcement fillers in the plastics industry.	Auvergne-Rhône-Alpes	2013		
71 	<b>PÔLE ÉCO INDUSTRIES</b> <b>POITOU-CHARENTES</b> PROJECT MULTITEX 2	Feasibility study of a pilot enabling the chemical separation of post-consumer mixed textile materials.	Nouvelle Aquitaine	2013		
72 	<b>PRÉMICES &amp; CO.</b> PROJECT BÉTON DE CHIFFON	Creating a range of decorative acoustic products entirely made from recycled textiles.	Île-de-France	2013		
73 	<b>AGENCE AIR COOP</b> PROJECT 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		
74 	<b>CC PAYS DE</b> <b>COLOMBEY</b> <b>&amp; SUD TOULOUS</b> PROJECT RECYTEX	Technical, economical and commercial feasibility study of creating a rigid decorative tile integrating 20 to 50% of post-consumer textiles.	Grand Est	2012		
75 	<b>FEYECON SEPREX</b> PROJECT DECOTEX 1	Developing a bleaching process for post-consumer polyester clothes to enable their recycling.	Grand Est	2012		
76 	<b>FRAMIMEX</b> PROJECT VIACOVER	Developing an exterior sound insulation shield in lightweight concrete integrating post-consumer textile fibres.	Hauts-de-France	2012		
77 	<b>FILATURES DU PARC</b> PROJECT FILATURES DU PARC	Manufacturing recycled wool yarns of the same quality as yarns made with virgin wool fibres.	Occitanie	2011		
78 	<b>PÔLE ÉCO-INDUSTRIES</b> <b>POITOU-CHARENTES</b> PROJECT MULTITEX	Developing a process for chemical separation of post-consumer mixed textiles.	Nouvelle Aquitaine	2011		
79 	<b>TRUCS-TROUVAILLES</b> PROJECT TRUCS-TROUVAILLES	Recycling post-consumer rubber soles into new soles.	Île-de-France	2011		
80 	<b>BIC</b> PROJECT ISOKTEX	Developing an innovative textile insulation.	Auvergne-Rhône-Alpes	2010		
81 	<b>DECATHLON</b> PROJECT OXYLANE	Manufacturing polyester yarn from post-consumer polyester textiles.	Hauts-de-France	2010		
82 	<b>NOVAFLOOR</b> PROJECT NOVATEX	Incorporating end-of-life textiles as inert fillers in decorative plates.	Hauts-de-France	2010	