Circularity related projects

Project Name	Aim
CISUTAC	CISUTAC aims to remove current bottlenecks in order to
	increase textile circularity in Europe. The objective is to
CISUTAC Circular and Sustainable Textiles and Clothing	minimise the sector's total environmental impact by
	developing sustainable, novel, and inclusive large-scale
	European value chains.
	CISUTAC also raises awareness among EU citizens about the
	environmental impact of buying new clothes and the benefits
	of reusing, donating and shopping second hand textiles. Thanks
	to the stores, e-commerce platforms and social media networks
	of partners, CISUTAC expects to reach around two million
	people.
ALIGNED	ALIGNED will advance the scientific field of Life Cycle
	Assessment (LCA) and collaborate with industries and
ALIONED	representatives from five bio-based sectors: construction,
CONSTRUCTION - PLAY AND PRAPER - HISTORIANMENT - TEXTILE - BID-DESIRICALS	woodworking, textile, pulp and paper, and bio-chemicals.
	ALIGNED will develop a modelling framework to perform high
	quality assessment studies across the bio-based sectors, with
	industrial relevance and interoperability
	The framework will be tested and improved via iterative
	application in five specific cases of biobased industrial
D' E'I I	technologies, one for each sector.
BioFibreLoop	How is BioFibreLoop going to help the EU's textile sector
	transformation towards more sustainability ?
() biofibreloop	Our concept encompasses four essential aspects: the use of
	bio-based materials , the development of a biomimetic functionalisation technology, the application of the resulting
	textiles in industrial settings, and the establishment of recycling
	routes for the bio-based materials.
Bio-LUSH	Bio-LUSH unlocks the hidden potential of European plant
<u> </u>	resources, such as forest residues, marine plants, and weeds.
	Through advanced fiber extraction and tailored properties, we
Bio- LUSH	produce high-value fibers for textiles , food packaging, and
	reinforced composites.
	By revitalizing marginalized areas and promoting circular
	biomass use, Bio-LUSH plays a crucial role in fostering the
	expansion of Europe's fibrous bioeconomy, addressing socio-
	economic challenges, and working towards a sustainable
	future.
BioSusTex	The EU-funded BioSusTex project aims to drive policy change
	and develop pioneering technologies and tools for a greener
BIO	textile value chain.
TEX	

	These initiatives are in line with the Safe and Sustainable-by- Design (SSbD) framework, designed to promote sustainable innovation within the textile industry.
CALIMERO	CALIMERO is a European Project whose goal is to create a common framework for the Life Cycle Assessment methodologies of certain bio-based industries' sectors.
CELLFIL CELLFIL FILARITS FROM NATURE	CELLFIL is a project aimed at transforming the European textile value chain by developing sustainable , bio-based Lyocell filaments . Made from biodegradable and circular raw materials such as wood, orange peel, textile waste, and other second-generation (2G) feedstocks, these filaments are designed to replace synthetic fibers addressing both the environmental and social impacts of the textile industry. The project will drive innovation across the value chain by defining business models and strategies for market adoption by 2030, ultimately contributing to the development of a circular
CIRTECHTEX	textile economy in Europe. The CIRTECHTEX Project's ambition is to uptake circular economy approach to dramatically reduce technical textiles
CIRTECHTEX	waste generation and upcycle them into high-grade PPE fabrics. The goal of the project is to achieve the recycling of textile waste , using a minimum of 20% recycled pre and post-consumer material in a minimum of the 80% of PPEs manufactured.
Circula-TEX Circula-tex	Circula-TEX is a Horizon Europe project that aims to support the EU strategy for Sustainability and Circular Textiles . The project seeks to redesign textile value chains by developing circular economy strategies aligned with Extended Producer Responsibility (EPR) policies.
CRAFT IT 4 SD Oraft the to last on Atlantic Transconding for Transconding for Transconding for Data stands for Data stands the Development	CRAFT-IT4SD aims to transform the cultural and creative sectors and industries (CCSI) towards the green transition by activating the rich crafts and creative art heritage and the strong design traditions nested in the European fashion and clothing sector, and to renew these traditions through cross-sectoral co-creation with immersive media and extended reality technologies, to explore new sustainable design and production processes through digital technologies, tools and lab-environments as well as new ways of engaging more sustainable consumer behaviour through gamification, immersive storytelling and co-designing processes in immersive media-environments.

Hemp4Circularity	Hemp4Circularity is an Interreg NWE project that aims to
<u>Hemp4chedianty</u>	implement an innovative, local and biobased ecological fibre -
	the long fibre hemp - in the textile value chain of North-West
Octunded by the European Union North-West Europe	Europe, from growers to weavers/knitters, from field to fashion.
Hemp4Circularity	The project sets up pilot actions at several stages of the value
	chain (cultivating, primary processing, data-driven farming,
	spinning, fabric production) to optimize all stages of the
	production, in order to be durably implemented, from fiber to
	recycling solutions. With this project, from field to recycled
	fibre, hemp is a driver of circularity in the textile industry!
Just Fashion	Just Fashion aims at accelerating climate transition in the
<u>Just rusmon</u>	fashion industry, by providing businesses in the partner
	countries with a reference framework and tools to shift their
JUSTFashion	production methods, internal procedures and final products
Sustriction of the sustriction o	towards more sustainable models that are a lower carbon,
	circular and socially inclusive.
LIFE TREATS	LIFE TREATS is a joint project by Södra, a Swedish producer of
LII L TINLAID	pulp, and Lenzing, a leading global supplier of specialty fibres
WLIFETA	based on cellulosic and recycling material, aiming to
	demonstrate an innovative industrial-scale system for chemical
A COURT OF THE PROPERTY OF THE	·
12ing Grov	recycling of blended textile waste. Södra and Lenzing have
	been working together on textile recycling since 2021, making
	a crucial contribution to the promotion of circularity in the
	fachian industry
DENCLUM	fashion industry.
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PLASTICE	By implementing cutting-edge technologies along the whole recycling value chain and by valorising plastics that are not being separated, the PLASTICE project will valorize a wide
PLASTICE	range of unsorted plastic and textile waste. By preserving the performance of the valorisation process against feedstock
	variations and by protecting the products' quality for their
	subsequent usage in industrial applications, the goal is to close
	the loop.
PROPLANET	The main goal of PROPLANET is to design and optimise 3
	innovative coatings for the following industrial sectors: textile,
PROPLANET	food packaging, and glass. The developed solutions will be cost-
FRANEI	effective, high-functional, safe, and sustainable, aiming to
	substitute current PFAS-type coatings.
RE-APS	RE-APS is an innovative initiative that aims to transform our
	textile waste into a valuable resource. Concretely, the
Interreg of Statement Programment Programm	objective is to facilitate, on an industrial scale, the recycling of
Cross53	polyester waste via a thermomechanical process consisting of
RE-APS	pre-treating, grinding, melting this waste and reusing it in the
	textile industry.
RegioGreenTex	In the framework of the European Green Deal , RegioGreenTex
	is a project promoting the collaboration in research and
	development for the textile industry between the four major
GREEN	sectors of society - industry, government, research institutes,
TEX	and the public - in establishing a systematic circular economy
	business model across the EU.
SOLSTICE	SOLSTICE addresses key social and technical challenges within
	the textile industry. Through active demonstration in four
solstice	European regions, the project showcases the implementation
	of climate-neutral practices and the transition towards a
	circular economy specifically tailored for the textile sector.
	Our comprehensive approach encompasses all stages of waste
	prevention and management, guided by a holistic 5R strategy :
	Refuse/Reduce, Reuse, Repair, Repurpose, and Recycle.
	The SOLSTICE project supports sustainable growth in the
	textiles sector by raising customer awareness, enhancing recycling with new sorting methods, ensuring feedstock
	traceability using the Digital Product Passport, and providing
	data and guidelines to decision-makers.
SUBBIMATT	SUBBIMATT Project will develop biobased
SODDIIVIAI I	and bioinspired sustainable Smart Textile Materials to address
	current and future energy needs. The novel materials include
S SUBBIMATT	debondable adhesives, bio-polyurethane, and negative
	thermoresponsive materials, leading to advanced applications
	in shape morphing building envelopes, automotive interiors,
	and adaptive garments.
	and adaptive farments.

<u>TexMaTer</u> TexMaTer project aims to minimise the environmental impact of the textile and clothing industry through the search of **new** sustainable fibres and novel bioformulations for textile finishing processes. This will lead to reduced dependence on synthetic fibres, virgin cotton, and wood-based man-made cellulosic fibres, as well as the use of fossil-based chemical finishing formulations. Ultimately TexMaTer seeks to promote regional and innovative bioeconomies through regenerative and locally sustainable production of alternative bio-based fibres. It also focuses on implementing territorial solutions to **promote** sustainability and circular practices within the fashion and home textiles industry. tExtended The project tExtended aims to introduce an innovative approach to the cycling of discarded textiles with the development of a Blueprint, a knowledge-based masterplan for the optimized cycling for different textile flows. The Blueprint will define the implementation of a circular textile ecosystem including reduction of waste, extended reuse of textile products and efficient material recycling of end-of-life textiles. We also develop wide range of digital and technological solutions enabling the replicability of the tExtended solutions in different European regions, especially business opportunities emerging from circular systems and innovations that are environmentally and socially sustainable. Threading-CO₂ Threading-CO₂ aims to scale-up and demonstrate its first-of-itskind technology producing high-quality commercially viable sustainable PET textile products from CO2 waste streams at industrial scale (TRL7) using a circular manufacturing THREADING-CO2 approach and running on renewable energy sources. The overall outcome of the Threading-CO₂ project is a 70% GHG emissions reduction compared to existing PET manufacturing processes. In addition, Threading-CO₂ will enable the creation of a European value chain for sustainable PET textiles, from feedstock to final textile products in the clothing, automotive and sports/outdoor industries. **TRUSTEX** TRUSTEX aims to revolutionize the EU textile industry by developing and implementing **Extended** Producer Responsibility schemes that promote circular business models through eco-design principles, improved waste management systems, and digital traceability solutions. The updated Waste Framework Directive mandates separate collection of textiles by 2025, with Extended Producer Responsibility schemes identified as the most efficient

financing solution.

VERDEinMED	The VERDEinMED project, "PreVEnting and ReDucing the
VERBEIIIVIEB	tEXtiles waste mountain in the MED area", is an initiative co-
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Euro-MED Co-Aunded by the European Union	funded by the EU Interreg Euro-MED programme to promote a
VERDEInMED	more sustainable future for the textile sector. The project,
	which brings together 10 partners and 15 associated entities, is
	based on the promotion of the circular economy in the textile
	sector along its entire value chain. Framed within the
	Innovative Sustainable Economy Mission of Interreg Euro-MED,
	the project will seek to reduce textile waste by applying
	innovative tools and raising awareness among different
	audiences in the Mediterranean.
Waste2BioComp	The Waste2BioComp project aims to demonstrate relevant
vastezbiocomp	scale production of bio-based products and materials, as
waste2 biocomp	alternatives to replace traditional materials with a high
and one comp	environmental footprint, using innovative manufacturing
	technologies in Textiles, Packaging and Footwear.
ZeroF	The ZeroF project funded by the EU and SERI, will develop safe
	and sustainable coating alternatives to replace PFAS
6-	compounds in food packaging and upholstery textile value
ZEROF	chains.
EFFECTIVE	Project EFFECTIVE is a multi-company collaboration to produce
	more sustainable bio-based fibers and plastics for large
	consumer products by using renewable feedstocks and
$\equiv \emptyset$	innovative technologies.
OFFOOTIVO	Our goal is to reshape entire product value chains by designing
effective	new products for a better tomorrow. Because we care about the
	end-life of our products, EFFECTIVE embraces the circular
	economy to close the material cycle and make sure we
	- ·
Clavilian	maximize the value of every fiber and plastic we create.
Glaukos	Glaukos project aim was to develop eco-designed fishing gear
	and clothing, redesigning through a systemic aproach the entire
计	value chain, all the way from renewable feedstock to textile
Glaukos	prototype and ending with two end-of-life (EOL) solutions :
	biodegradation and bio-recycling.
GRETE	The GRETE project will improve the existing wood-to- textile
	value chains by developing breakthrough technologies that
¥ GRETE	can open up the identified bottlenecks and enable
≪GRETE	increased production of man-made cellulose fibres in
	Europe.
HEREWEAR	HEREWEAR innovates with a holistic, systemic approach
	towards the creation of an EU market for locally-produced
	circular textiles and clothing made from bio-based
	waste. New material solutions will build on the latest bio-
	based polyesters and cellulose developments. Three
	novel waste streams (seaweed, manure, straw) will be
	more made differing (obawood, manare, straw) with be

	developed for cellulosic textile fibres. Emerging sustainable technologies for wet and melt spinning, for yarn and fabric making, will be developed and piloted at semi-industrial scale. For finishing, coating and colouring biobased agents will be evolved.
IRISS	The concept of Safe-and-Sustainable-by-Design is the core of the IRISS project, which includes focusing early in the supply chain on providing products that are part of circular models while avoiding properties that may be harmful to human health or the environment. It integrates circularity, climate neutrality, functionality and safety of materials, products and processes throughout their life cycle. In close collaboration with industry, several roadmaps will be developed to implement research and innovation, but also to demonstrate needs that exist in the policy area. Focus is on the value chains for textiles, construction, electronics, energy, automotive, packaging and fragrance.
MY-FI	The MY-FI project contributes to further improve the EU
my·fi	textile industry by developing mycelium-based fabrics. Such innovative materials are fully biobased, customizable, highly performing and can be produced
	through advanced manufacturing processes. Mycelium fabrics have the potential to match the consumers' demands for sustainable and functional products, opening new designing opportunities for several market applications, resulting in positive economic impact and environmental relief. By valorising other industries' residues, MY-FI will contribute to implement a cross-sectoral approach to Circular Economy, enhancing the competitiveness of local value chains.
New Cotton Project Project Rew Cotton	Over a three-year period, textile waste is collected and sorted, and regenerated into a new, man-made cellulosic fiber that looks and feels like cotton – a "new cotton" – using
project	Infinited Fiber Company's textile fiber regeneration technology. The fibres will be used to create different types of fabrics for clothing that will be designed, manufactured and sold by global brand adidas and companies in the H&M Group. The project also aims to act as an inspiration and steppingstone for further, even bigger circular initiatives in the industry going forward.
<u>S4Fashion</u>	S4Fashion is empowering small medium-sized enterprises to introduce new sustainable and circular economy
S4E ASHION	products, services, methods, tools and business models for the fashion industry.
	We aim to identify and amplify the best and up to date practices for a greener fashion sector. The project,

	throughout its three year life cycle, will produce new
	evidence-based knowledge on sustainability and circular
	economy for the fashion industry and share its findings with
	the whole ecosystem of the European fashion community.
SCIRT	The SCIRT project aims to demonstrate a complete textile-
<u> </u>	to-textile recycling system for discarded clothing - or
	post-consumer textiles - involving stakeholders
SCIRT.	throughout the value chain and focusing on the recycling of
	natural fibres, synthetic fibres and fibre blends.
T-REX	
I-NEX	T-REX Project brought together 13 major players from across the entire value chain to create a harmonised EU
(III) t-rex	blueprint and business opportunities for closed loop
	sorting, and recycling of household textile waste.
	Transforming end-of-use textiles, from waste, into a desired
	feedstock, and a commodity for new business models that
TDIOK	can be adopted at scale.
TRICK	TRICK will provide affordable and standardised enabler to
Ш тяск	move SMEs closer to circular economy. The project
TRICK	supports the adoption, tracing and demonstration of
Bu-mort	sustainable approaches by means of an innovative and
	circular product information management system, based
	on a data collection platform secured by Blockchain and
	integrated with an open marketplace for the matched
	services.
CircThread	The objective is to interconnect the information along the
O Circ	life of a product, from concept to retirement, so that it can
Thread	be easily accessed and shared. This will allow you and
	others to make decisions at all stages to shift to a circular
	economy.
	To make this information available, we will develop, test, and
	share our open-source software platform within the next
	four years. It will enable digital exchanges of data across
	the extended product life cycle.
CISUFLO	CISUFLO overall goal is to minimize the environmental
	impact of the EU flooring sector , by setting up a systemic
CISUFLO CISUFLO	framework for circular and sustainable floor coverings
	taking into account both technical feasibility and socio-
	economic factors.
SORT4CIRC	The EU-funded SORT4CIRC project will develop a high-tech,
	traceable system for sorting textiles using AI, multi-
	sensors, and digital product passports. It will make it
	possible for recyclers to turn non-rewearable textiles into
	valuable raw materials, while helping sorters unlock new
	business opportunities. By connecting designers, sorters,
	recyclers, and tech experts, SORT4CIRC is paving the way

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	for a smarter system that keeps textiles in the loop and
	drives the shift to a circular economy .
AUTOLOOP	The EU-funded AUTOLOOP project will accelerate the
	transformation of the European clothing and textile industry
ΛD_{\perp}	by developing state-of-the-art, scalable technologies for
F.	intelligent automated sorting and advanced chemical
	recycling of non-rewearable textiles (NRT). Additionally, it
	will develop science-based additive tracing technologies
	and solutions to digitalise the textile value chain. Finally,
	chemical recycling technologies are pollutant-resistant,
	can extract pollutants from NRT feedstock, and enable safe
	and clean fibre product streams.
STREP	STREP ambition is to empower the European textile
	(recycling) industry with a solution for sustainable
STREE	processing of textile waste by developing and rolling out of
	a novel and systemic waste sorting solution based on cost-
	efficient sensor and automation technology, self-learning
	AI, as well as a novel solution for textile disintegration and
	mechanical recycling. Furthermore, STREP develops
	chemical recycling solutions, to facilitate the production
	of a 100% closed loop recycled yarn based exclusively on
	post-consumer textile waste, creating a perfect balance
	between sustainability, cost, and quality. The overall
	ambition is enhancing European industrial sustainability,
	competitiveness, and resource independence through
	producing more sustainable products, while increasing
	consumer benefits.

DPP related projects

CIRPASS CIRPASS Digital Product Possport CIRPASS-2	Funded by the European Commission under the Digital Europe Programme, CIRPASS is a collaborative initiative to prepare the ground for the gradual piloting and deployment of a standards-based Digital Product Passport (DPP) aligned with the requirements of the Proposal for Ecodesign for Sustainable Product Regulations (ESPR), with an initial focus on the electronics, batteries, and textile sectors. CIRPASS-2 will demonstrate functioning Digital Product
CIRPASS ² Digital Product Passport	Passports in real settings through circular pilot deployments and use cases in textiles, electrical and electronic equipment, tyres and construction value chains.
DigInTraCE	Process industries are working to find solutions to achieve low emissions and promote circularity through waste reduction and secondary raw materials use. The DigInTraCE project will use innovative tracking, sensing and sorting techniques to develop a transparent and interoperable decentralised traceability platform focusing on the pulp and paper and chemicals sectors. The project will also develop dynamically updated DPP-schemes supporting certification, quality validation, AI-based decision-making mechanisms for process and life cycle optimisation, and up-cycling, reuse and upgrade technologies for improved secondary raw materials use. DigInTraCE will concentrate on composite wood and furniture, wood and pulp and paper, plastic parts from ICT equipment and the automotive market and polymers and textiles.
CE-RISE	The Circular Economy Resource Information System (CE-RISE) project aims to create an information system and integrate digital product passports, that will share detailed information on electronic products. CE-RISE will develop the system to provide stakeholders, including consumers, with a better understanding of the green credentials of electronic products and how to preserve important raw materials through the reuse, repair and recycling of these items.
Trace4Value TRACE 4 VALUE	Through our groundbreaking Trace4Value initiative, we are piloting the entire technical architecture and infrastructure of the Digital Product Passport system. Over 3000 pilot products from leading brands Kappahl and Marimekko have been equipped with ID carriers storing crucial supply chain and transparency data.

Other

HackThatFashion



HackThatFashion targets fashion designers and small and medium fashion companies in Europe. Through learning and applying design thinking methods and tools, fashion designers will be supported to practice and build concrete results towards technology and sustainability integration and adoption.

HTF is a cross-sectoral platform where the fashion idustry will connect with the technology and innovation industry at carefully curated hackathons and matchmaking sessions.