Submitting Country, Organization, Company	ITALY, ENEA
If Organization or Company, please indicate the approximate number of employees	2800
Title of the action	eBIZ and blockchain based traceability framework for circular economy in fashion (TRICK)

Upload an image

Relevant Website	www.ebiz.enea.it
Partners	ENEA, Piacenza, Marchi e Fildi, Holonix, POLIMI, Domina, Quadrans and others
Type of initiative	Public-private initiative

Description of action

The key idea of the proposed action is deriving from the UNECE ToolBox and from the existing eBIZ data exchange specifications the basis for implementing a project aimimg at creating a traceability backbone with a number of services for circular economy in fashion and food industry.
Noticeable elements of the project will be the support to different blockchains and their interoperability and the connection with the custom systems related to Preferential origina certifications.

The financial and operational framework for this activity is the TRICK EU H2020 funded project: the project, started in May, will work in the next 3 years to support SMEs in the adoption, tracing and demonstration of 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. The demonstration will be run in Textile-Clothing and in Food sector, to demonstrate the replicability of the approach.
TRICK is supported by a consortium of 29 partners from 8 EU countries and 3 extra EU eligible countries, coordinated by F.lli Piacenza S.p.A. an Italian top-brand in luxury fabrics manufacturing. The consortium is composed by stakeholders of the supply chain with the role of end-users together with University and Research Centres, National Agencies public bodies and associations, ITC and tech providers.
TRICK's platform will provide standardized services targeted on the pilots and useful to implement and trace circular economy practices with reference to environmental, social and health protection

domains (e.g. Preferential Certificate of Origin, Product Environmental Footprint, anti-counterfeiting). Afterwards additional services will be joint by means of a marketplace open to third parties' certified solutions to respond also to the needs of other value chains.

Type of action

Traceability   Transparency

Please select the specific area/s of the action

Research and Development of Innovative Solutions

Collaborative initiatives

Scope of the action, including a description of the value chain processes that are covered

Objective

The objective is setting up three pilots from raw materials up to the second life of the materials and products; the pilots will involve classical garments, technical protective clothing and food (citrus supply chain).

Commitments

The committement is setting up live and replicable prototype, for international supply chains and deliver also public specifications and guidelines for circular and sustainable production in fashion industry.

Value chain scope

From cradle to cradle supply chains inclusive of SMEs (from Alpaca in Peru up to finished goods in Italy and then fiber reuse in Germany)

Timeframe and/or milestones for the action

Project aims at delivering its first guidelines at February 2022, first prototypes at January 2023, Pilots and conclusion at 2024

Reference instruments and sources used

CEN CWA eBIZ specifications; UNECE UNCEFACT Toolbox for "Enhancing traceability and transparency of sustainable value chains in the garment and footwear sector", SA8000, PEF-CR and others (like running activities on blockchain interoperability as soon as delivered);

Expected benefits and impact for the stakeholders involved

Enhanced visibility of compliance with sustainability requirements by industry actors/partners along the entire value chain

Enhanced traceability of the social/environmental/ethical attributes of product(s)/materials along the value chain; for example, for origin, quality, sustainability performance, and compliance with health and safety requirements for consumers and workers

A measurable impact on sustainability in value chains over time, eventually verified through life-cycle assessments and/or sustainability certifications

Enhanced environmental and socially responsible consumption and production, and circularity of the value chain, that may be relevant to and inspire other countries and industry actors/partners

Management of reputational risk for manufacturers, brands and retailers who are selling the products concerned

Improved working conditions for workers along the value chain and, particularly, those who work for "suppliers to suppliers" in parts of the value chain that today are often "hidden"

Stakeholders involved

Business and industry associations

Scientific and technological community

Italian Customs Agency

Key performance indicators for the action

90% compatibility with existing standard specifcation
100% public guidelines
3 pilots and products fully supported

Good practices

the project web site is being developed

How has this UNECE-UN/CEFACT Call to Action contributed to strategic engagement and/or public awareness in support of your commitment?

The call to action has been reinforcing the willngess to design and experience open standard based solutions.

Link to relevant goal(s) and specific target(s) of the United Nations