







# Innovative solutions for the Textile Industry: Digital Passport, Reuse and Al

SustainableSolutionsMatch

Welcome!





#### Session Agenda

- Welcome & Introduction
- Sustainability in Textile Sector
- Pitch Presentations:
  - Pitch 1: Atelier Riforma (Italy)
  - Pitch 2: Dawa (Spain)
  - Pitch 3: E-scm (France)
  - Pitch 4: Human material loop (Netherlands)
  - Pitch 5: Kosha (India)
  - Pitch 6: Renoon (Italy)
  - Pitch 7: Scimm (Belgium)
- Closing Remarks





#### Welcome & Introduction

#### Who's moderating?

Marta Casanova ACCIO Sustainability Advisor



#### Who's organizing?













#### Welcome & Introduction

#### Let's play by the rules: smooth sailing for our session!

- Mute Policy: Please remain muted unless speaking to avoid background noise.
- **Q&A Time:** After each pitch, there will be 1–2 minutes for questions. Please use the chat to ask questions.
- **Time management**: Pitchers, please keep track of your time. We will inform you if 5 minutes have passed.
- Technical Issues: If you encounter issues, use the chat to notify the host.



#### Sustainability in textile sector

- √ Textile sector as large consumer of resources in the world
- ✓ Environmental and climate impact: 100,000 million pieces of clothing sold every year worldwide, less than 1% of textile waste is recycled.
- ✓ Great potential to move towards a circular economy model (EU Transition Pathway- European Commission).
- ✓ EU Textile companies profile: 99.5% are SMEs, face sustainability industry challenges in the coming years → transformation accelerated by current and coming EU legislation.
- ✓Innovative solutions that can boost the EU textile Industry to sustainability through Digital Passport, Reuse of textiles and Artificial Intelligence implementation tools.





#### Pitch Presentations



Time to meet the innovators!

Pitch 1
Atelier Riforma
Elena Ferrero









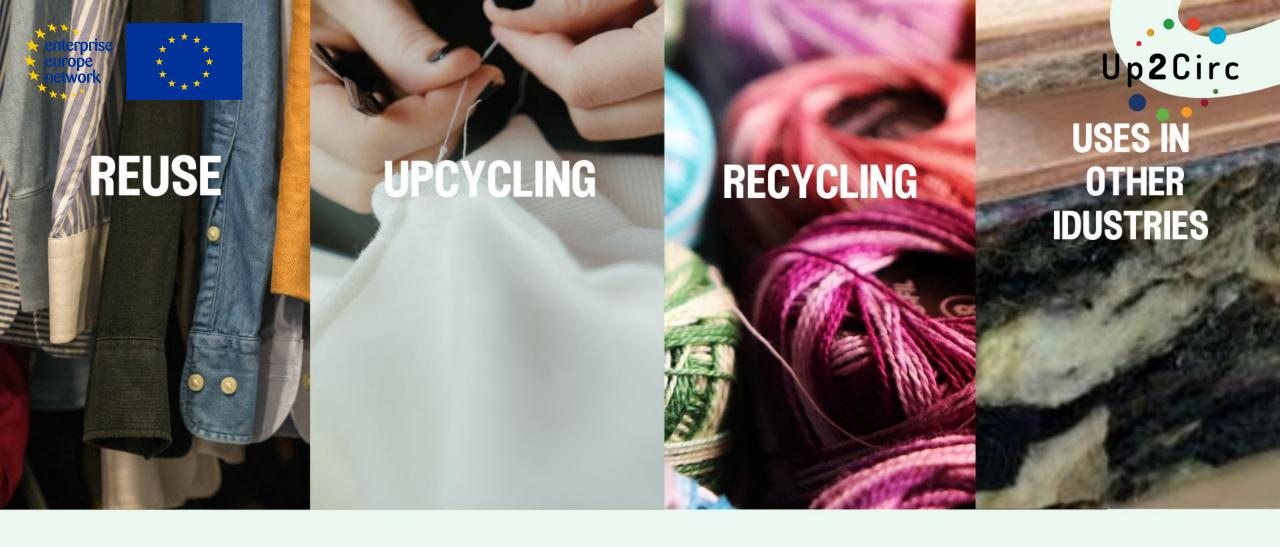
# Ce4circular fashion

BY









# THERE ARE SOLUTIONS TO GIVE TEXTILES A SECOND LIFE

SustainableSolutionsMatch

#### IN ORDER TO DIRECT TEXTILE WASTE TO CIRCULAR DESTINATIONS, YOU NEED TO KNOW AND TRANSMIT THE SPECIFIC CHARACTERISTICS OF EACH ITEM.





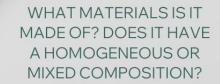


WHAT KIND OF GARMENT IS IT?

IS IT A SUMMER OR WINTER GARMENT?

IS IT A GARMENT FOR MEN, WOMEN OR KIDS?

WHAT COLOUR IS IT?
DOES IT HAVE A
PARTICULAR PATTERN?



WHAT IS ITS VALUE IN THE CIRCULAR FASHION MARKET?

WHAT IS ITS SIZE?

SustainableSolutionsMatch

IN WHAT CONDITION IS IT?









#### DESIGNED THE INNOVATIVE TECHNOLOGY

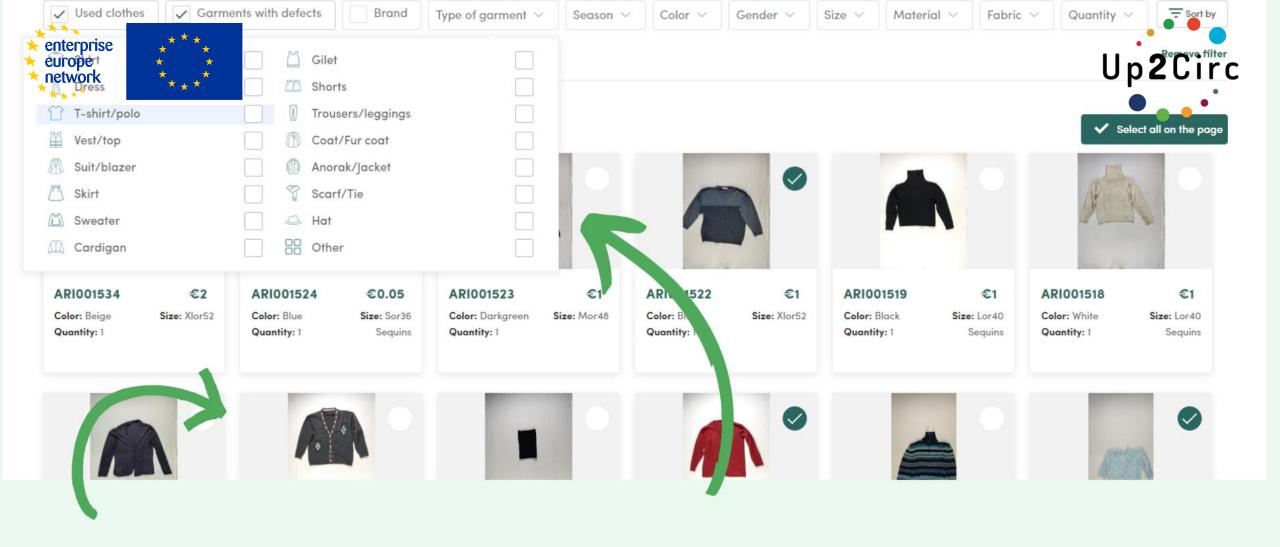




#### **AI-POWERED CLASSIFICATION TECHNOLOGY**



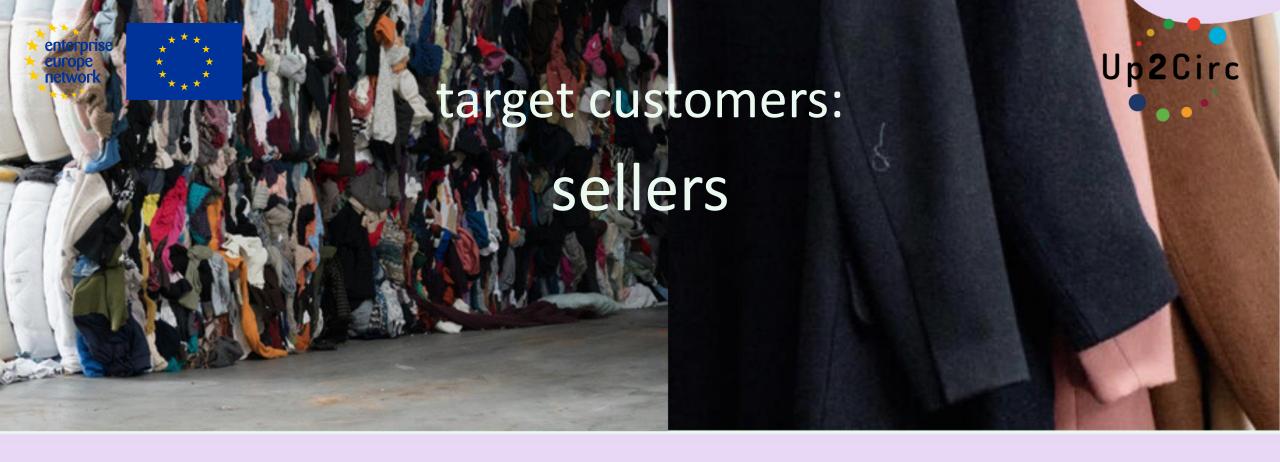




all data and images of the catalogued garments flow directly into our B2B digital marketplace platform, through which sellers can wholesale their garments online to other companies

Buyers accessing Re4Circular marketplace can use smart search filters and search for the material best suited to their needs, know all their characteristics and directly purchase them wholesale online

SustainableSolutionsMatch



## **COLLECTING/ SORTING ENTITIES**

need:

to economically exploit what they collect, little waste to dispose of

#### FASHION BRANDS

need:

to dispose of unsold (or taken-back) clothes, show sustainability

SustainableSolutionsMatch



#### SECOND-HAND SHOPS

need garments in perfect condition and INTERESTING FOR THE CONSUMER

## UPCYCLING PROFESSIONALS

need clothes with specific features / patterns, even with flaws

# RECYCLING COMPANIES

need clothes 100% single mateRial, divided by color

# USES IN OTHER INDUSTRIES

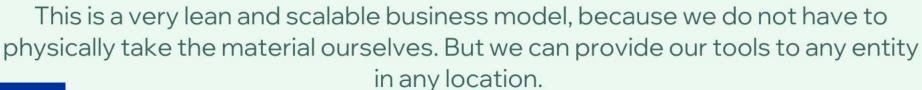
SustainableSolutions Matc















This makes our business model lean and

# SCALABLE

and our positive

# IMPACT

applicable to a very large scale





### New project

We are now also experimenting with a new application of Re4Circular, which is to provide it to municipalities as a tool for improving the efficiency of textile separate collection over the entire city









#### innovation

The most comprehensive B2B solution for buying and selling used clothing

#### It combines:

- Al-tech that automates the classification and digitization of products
- marketplace, which allows demand to meet supply transparenTly





filed a patent application for it









### ELENA

**FOUNDER** & CEO

GERRERO

SARA SECONDO

> **FOUNDER** & COO

BULLIA USTTORS

> Communication manager

ELEND

BETTINSOLI

Operations Manager

BLBBETB BRESUG

Assistent project Manager













#### PARTNERS



**AI PARTNER** 

Sensor Reply Concept Reply

#### Huulke.

**PARTNER** Huulke srl



COMMUNICATION PARTNER

Mercato Circolare











# &ROWING MARKET & PERFECT TIMING



6.4 3 \$

global circular fashion market in 2024

> 5 M TON / YEAR Starting this year, the EU Commission requires all EU countries to separate textiles and to manage them in an efficient, sustainable and transparent manner, through the EPR system



mandatory separate collection of textiles by 2025

legislation on extended producer responsibility applied to textiles

EU strategy for sustainable and circular textiles



#EENCanHelp

### Book a meeting with: Atelier Riforma

E-mail:

info@atelier-riforma.it

Location: Turin (Italy)

Website and landing page:

https://atelier-riforma.it/

https://re4circular.com/

Social Network:

LinkedIn, Facebook, Instagram e

<u>Youtube</u>





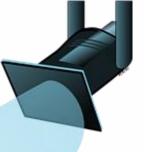








#### Pitch Presentations



Time to meet the innovators!

Pitch 2
Dawa
Alberto Miralles









Solution title

Company name

Alberto Miralles CRO & Co-founder

End-to-end platform that offers reuse and repair services for textile brands (Reuse)

**DAWA** 





# Why Can't We Return Used Products Instead of Just New Ones?





#### The Hidden Toll of Style: How Fashion Impacts the Planet



3 years of one person's water consumption

Liters of water used to produce a single cotton t-shirt



+100k swimming pools

Toxic chemicals released annually



More than all flights and maritime transport combined

CO<sub>2</sub> emissions generated per year

Giving products a 'Second Life' reduces waste and preserves resources

#### **EU Brands Face Rapid Market Shifts: Adapt or Fall Behind**

1

Second Life Marketplaces

Customers actively **sell** and buy used products through marketplaces like **Vinted** 

2

First movers
Buyback Program

Leaders like Apple and Patagonia set the trend fostering loyalty and advancing sustainability 3

Regulatory Push for Sustainability

New EU laws mandate upcycling accelerating the push for greener practices

EU **brands** don't have the Tech capabilities to make this transicion and capture the opportunity

- SustamaoleSolutionsMatch

#### SOLUTION

Dawa is the first all-in-one solution with 4 modules designed for

the circular economy



Allows customers to return used products and receive credit for new purchases

#### **⊗** Repair

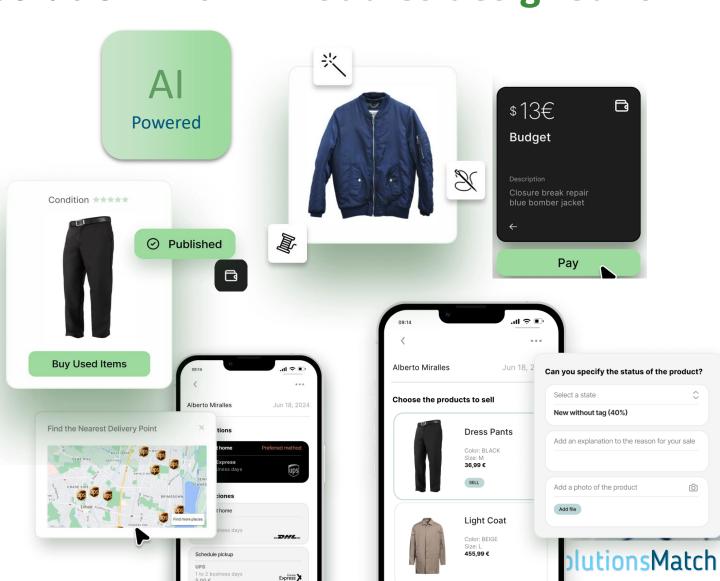
Comprehensive repair service restoring damaged products to full functionality, extending their lifespan and value

#### **Reconditioning**

Restore returned products to like-new condition, ready for resale or reuse

#### **Exchange & Returns**

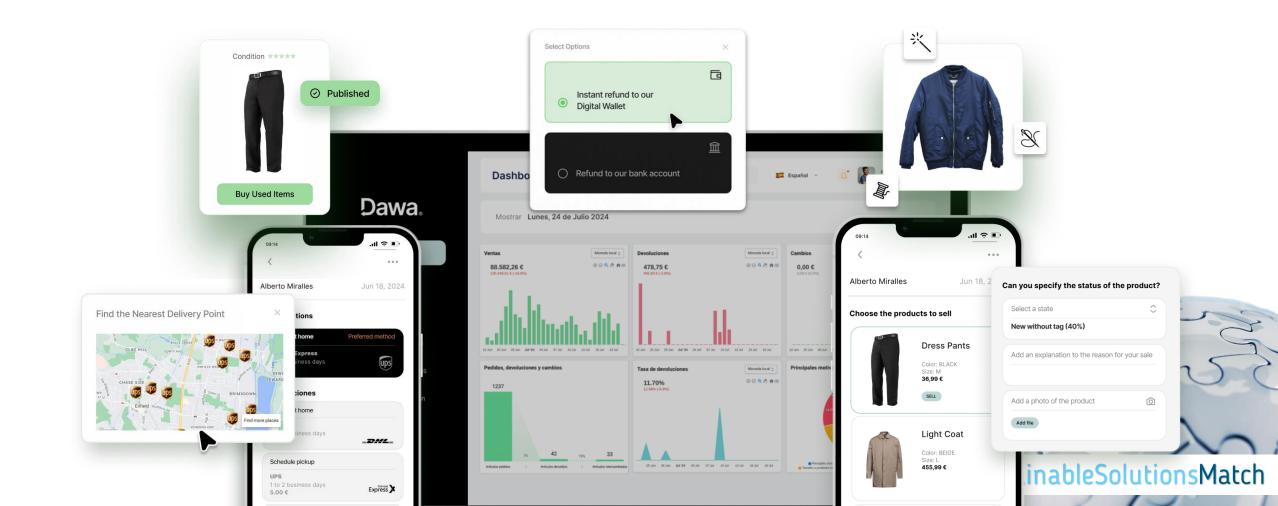
The ideal solution for brands to manage returns and exchanges effectively



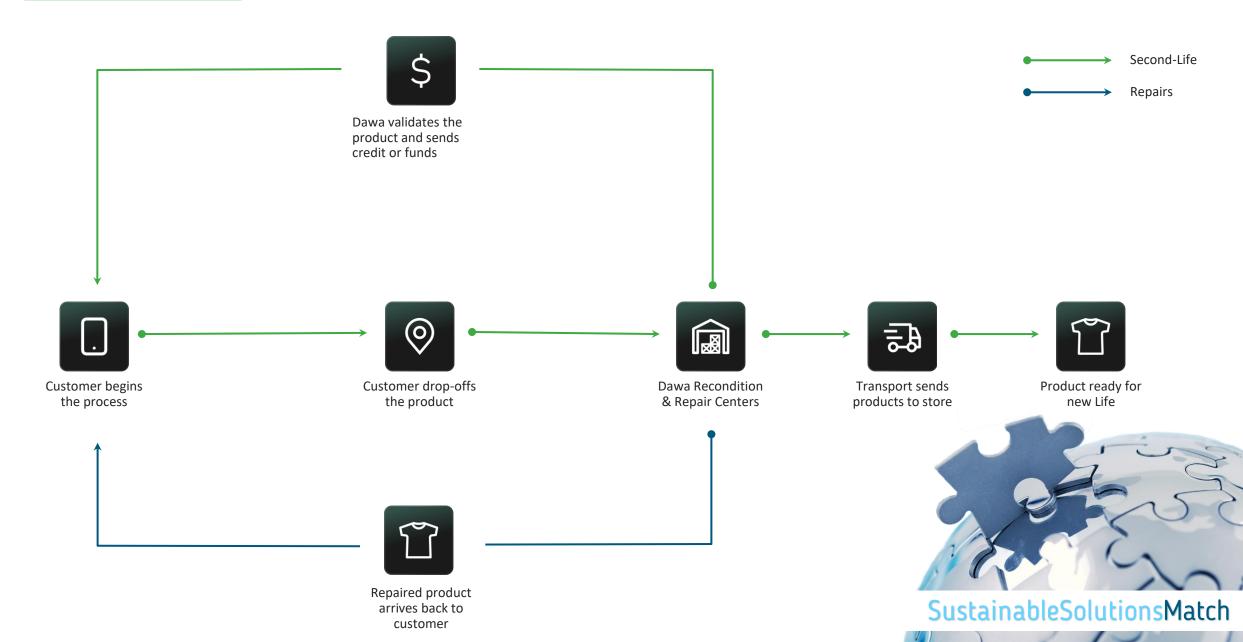


#### Highly customizable modules to be powered by AI

For all sources of revenue, across all channels—both online and offline, including third-party distribution



How it works Dawa.



#### Brands could generate economic and environmental impacts

-20%
CAC Reduction

+25% LTV Increase

+15%
New Customers

+20%
Profit Margin
per unit

-20%
CO<sub>2</sub> per euro of revenue

2 years
Extended
Product Lifespan

Dawa Impact: Enhance unit profitability for sustainable growth

#### **Cooperation Partners**

- Prands & Retailers Adoption & scaling of circular business models.
- Sustainable Suppliers Recycled, biodegradable & low-impact materials.
- **Governments & Regulators** Compliance & circular economy initiatives.
- **3PLs & Recycling Facilities** Reverse logistics, waste management & upcycling.
- **Repair & Refurbishment Partners** Fashion, footwear & durable goods solutions.
- Transportation & Logistics Efficient, low-carbon distribution networks.

#### #EENCanHelp

# Book a meeting with: DAWA

Alberto Miralles CRO & cofounder Dawa www.dawa.io

















## Pitch Presentations



Time to meet the innovators!

Pitch 3
E-Scm
Pantxika Ospital











A control tower to digitize and accelerate your supply chain upstream.

Fashion & luxury expertise.

Pantxika Ospital Business Consultant - Traceability specialist









### OUR ECOSYSTEM

Fashion & Outdoor

Supply Chain & Tech











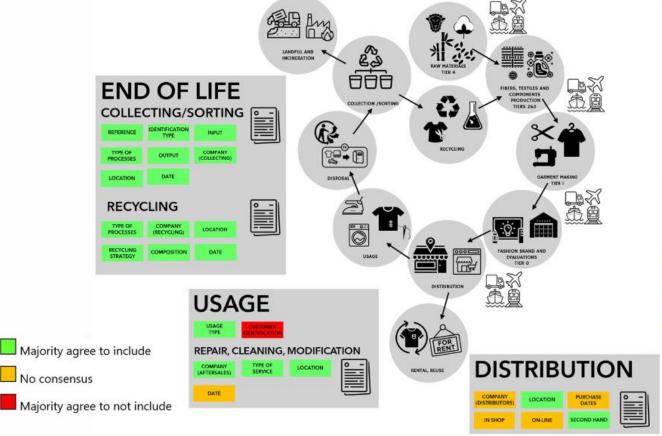


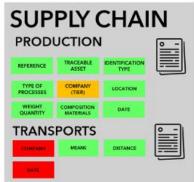


### Generic result of the survey concerning DPP



Digital product passport for the textile sector







Ospital, P., Legardeur, J., (2024). Digital Product Passport in the textile sector. STOA, European Parliament

**European Parliament Webstreaming** 

SustainableSolutionsMatch







### They chose e-SCM to accelerate

AIGLE®\ "INTERSPORT" RIPCURL € Eden © Park

CHANTELLE bassh MARANT FATHER & SONS









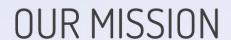
bellerose











Increase the operational efficiency of the Fashion & Luxury supply chains



### **Collaborate**

Fostering collaboration between stakeholders in real-time



#### Secure

Secured supply operations and data management



### Centralize

Centralized information to facilitate management and decision-making



### Optimize

Automated processes to reduce leadtimes & operational costs for higher customer satisfaction

















### PROCUREMENT MANAGEMENT PORTAL















#### **DATA COLLECTION**

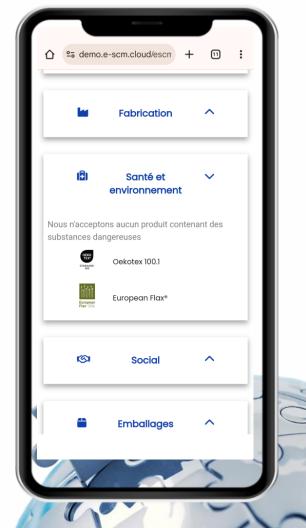
A QR code is created at the production stage for each SKU

### COMMUNICATION TO CONSUMERS

This QR code allows consumers to access information on their mobile







SustainableSolutionsMatch

## #EENCanHelp

# Book a meeting with e-SCM Solutions



Business Consultant e-SCM solutions pantxika.ospital@belharra.fr

















## Pitch Presentations



Time to meet the innovators!

Pitch 4
Human material loop
Zsofia Kollar









### **Keratin Protein Based Textiles**

**Human Material Loop B.V.** 

Zsofia Kollar Founder - CEO







# Transforming natural hair into the most competitive and sustainable textiles for interior design and home textiles









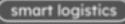






























# **OUR VISION**

# 500K TONS

HAIR WASTE TO MATERIAL PER YEAR







human material loop





# ādara<sup>TM</sup>

transformation - collaboration - reverence





ādara™ has a 43 times lower global warming potential than wool, emitting just 0.241 kg CO₂ eq. per kg compared to wool's 10.4 kg CO₂ eq., and 16.5 times lower than rPET, making it a truly climate-conscious alternative.





Traceability in the global textile supply chain remains limited. A 2021 KPMG report indicates that only 15% of companies have full traceability, while less than 20% have complete visibility across their supply chains. This lack of transparency hinders efforts to ensure sustainability and ethical practices within the industry. ādara™ offers a 100% traceable supply chain.

human material loop



Wool's inherent fire resistance comes from its naturally high nitrogen and water content. Because of this, wool requires higher levels of oxygen in the surrounding environment in order to burn. Wool may be ignited if subjected to a significantly powerful heat source, but it does not normally support flame. ādara™ is made of the same keratin protein fiber as wool.

human material loop



# MARKET SEGMENTS

**ACOUSTICS** 

**CURTAIN** 

**UPHOLSTERY** 

**CARPETS** 

## INTERIOR





# It's You, who

human material loop

makes an impact chooses innovation designs the future decides what's next drives progress teads change builds with purpose transforms ideas pioneers new solutions sets trends champions innovation empowers growth reimagines spaces unleashes creativity inspires change designs for impact breaks new ground chanes experiences







B2B

NL

**KERATIN PROTEIN FIBER** 

**REGENERATIVE** 

**COMMERCIALLY READY 2025** 

**PLASTIC FREE** 





# LOOKING FOR

**SPINNING MILLS** 

**WEAVING MILLS** 

**AMBASSADORS** 



## #EENCanHelp

# Book a meeting with Human material Loop BV

Zsofia Kollar

Founder Human Material Loop BV zsofia@humanmaterialloop.com



















## Pitch Presentations



Time to meet the innovators!

Pitch 5
Kosha
Vijaya Krishnappa











Digital Product Passport & Traceability

KOSHA.ai Vijaya Krishnappa CEO











SustainableSolutionsMatch

# KOSHATrace One Platform, Many Services

KOSHATrace is a SaaS platform for fashion industry enabling sustainability and circularity through Digital Product Passport and Traceability.

The platform offers multiple solutions in a modular and integrated approach. These are:

- 1. Digital Product Passport
- 2. Anti-counterfeiting modules
- 3. Provenance and product credential verification(using Immutable ledgers)
- 4. Brand Building and protection
- 5. Full Cycle traceability including Post Recycling traceability
- 6. Consumer Engagement
- 7. Remote deployment (Eg. Ethiopia)
- 8. Integrable with External systems through APIs









#### **Product Details**

Name, style, price, design, content and more

### Verified Product Provenance

Location of origin, supply chain map

#### **Verifiable Credentials**

ESG credentials/proof points across product, process and people with verication details

### **Consumer engagement**

Customer experience feedback, offers



### Recycling information

Dispose instruction, recycling information

#### Logistics

Logistics Mode, cost

## Material Authenticity data

FiberSENSE Verified certificate









### **Unique Proposition**

KOSHATrace is developed keeping in mind the unique needs of the fashion ecosystem

- 1. Low code Modular Architecture to enable rapid deployment
- 2. Highly scalable and Customizable Workflows
- 3. Multiple DPP options available based on need and cost
- 3. Integrated with FibreSENSE for material authentication
- 4. Ease of Operation Tested in 100s of MSMEs and Decentralised operations
- 5. Mobile First platform for decentralised operation
- 6. Immutable Ledger Database ensuring data integrity
- 7. Deeptech product integration with IoT
- 8. Modular deployment Reduced cost to customers advantage







### Target Market

- Brands
- Manufacturers
- Exporters
- Importers
- MSMEs
- Recyclers







### We are looking for

- Investors
- Customers
- Sales and Marketing Partners
- Joint Venture Partners



## #EENCanHelp

# Book a meeting with: Company name

Vijaya Krishnappa KOSHA.ai Vijaya.k@kosha.ai





























## **Pitch Presentations**



Time to meet the innovators!

Pitch 6
Renoon
Sara Ongaro











### Renoon

## TRANSFORM COMPLIANCE INTO VALUE

END TO END SUSTAINABILITY COMPLIANCE FOR THE FASHION & APPAREL INDUSTRY

















**INDUSTRY PROBLEM** 

# The compliance wave is hitting multiple business areas

### **TRANSPARENCY**

**DEMANDED BY 16+ LEGISLATION** 



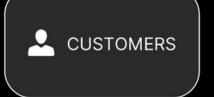
















**INDUSTRY PROBLEM** 

## Generating complexity & costs

SUPPLY CHAIN	<ul> <li>☐ Supply chain mapping</li> <li>☐ Data collection</li> <li>☐ Data validation &amp; audit systems</li> <li>☐ Data structure &amp; processing</li> </ul>	LEGAL
( INTERNAL	<ul><li>Data management &amp; processing</li><li>Stakeholder reporting</li></ul>	MARKETING
	☐ Marketing & communication ☐ Data sharing & availability	E-COM
PRODUCT	☐ Ecodesign & sourcing	SOURCING
	Implementation of digital labels	IT
CUSTOMERS	☐ Transparency labels touchpoint	



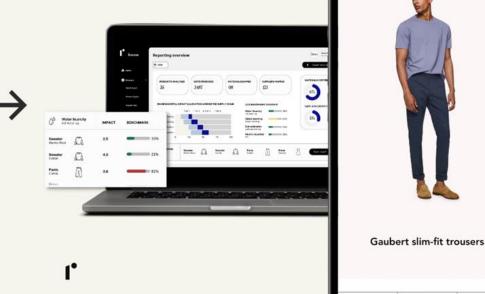


Dispose

**END-TO-END SOLUTION** 

Streamline compliance with Renoon's integrated & modular system









**END-TO-END SOLUTION** 

# Designed for tackling all compliance areas with speed & ease of use



- SINGLE INTERFACE
- EASY TO OPERATE
- 20+ INTEGRATIONS

( SUPPLY CHAIN





**PRODUCT** 



CUSTOMERS





**USE CASE: DONDUP** 

## Engaging users cross-channel

ONLINE (E-COM)

OFFLINE (QR CODE)









**END-TO-END SOLUTION** 

While turning compliance into opportunity

▲ x 10

**CONVERSION RATE** 

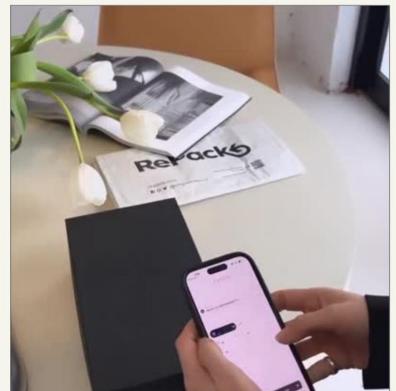
UPLIFT ON FIRST-TIME USERS

+225%

**RETURN ON INVESTMENT** 

PURCHASES AND AOV WITH RENOON VS WITHOUT

**USE CASE: DONDUP** 







## Expert support







IRIS

**REGULATIONS & POLICY** 

**PIERO PARTNERSHIPS** & CLIENTS

**COMPLIANCE &** DATA

**NICOLÒ** SYSTEMS & **INTEGRATIONS** 



**GABRI** STRATEGIC **PROJECTS** 



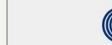
**HARISH PRODUCT EXCELLENCE** 



**MARTA CONTENT &** 

MARKETING

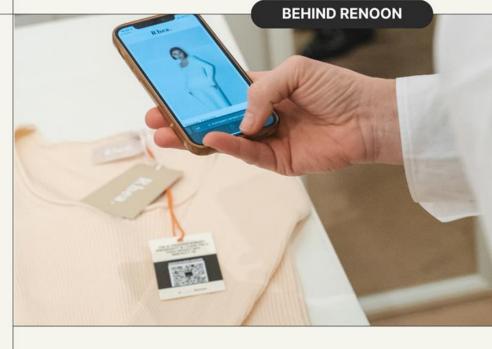












**GANNI** 

DONDUP MADE IN ITALY

/RTKNIT

Poupette St Barth

City of Amsterdam

MONOBI

Triarchy

MASHU

ESSĒN

unspun

+20







**BEHIND RENOON** 

## Advisory board















## #EENCanHelp

# Book a meeting with: Renoon

**Sara Ongaro**Sustainability Manager
Renoon
saraongaro@renoon. com









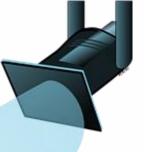








## Pitch Presentations



Time to meet the innovators!

Pitch 7
SCIMM
Tessa Wardenburg









## Sustainable sizes

## **SCIMM**

Tessa Wardenburg Co-founder









## Up**2**Circ

### Sustainable size solution

## Product Fit paspoort & Body ID





#### **Traditional Approach**

- National averagebased tables
- Static S/M/L labels
- Disconnected from real fit

#### **Our Smart Solution**

- Product-First Data Model Enriched data with fitting rules & compression
- Personal Matching
  Body scans, preferences
  & expertise level
- Recommendations
  Precise fit control &
  intelligent matching

#### **Key Benefits**

→ Zero Excess Logistics
Fliminate shipping

Eliminate shipping costs & returns in workwear

→ Optimized Production

Precise sizing matrix from real body data

→ Sustainable Impact Eliminate excess stock & reduce waste

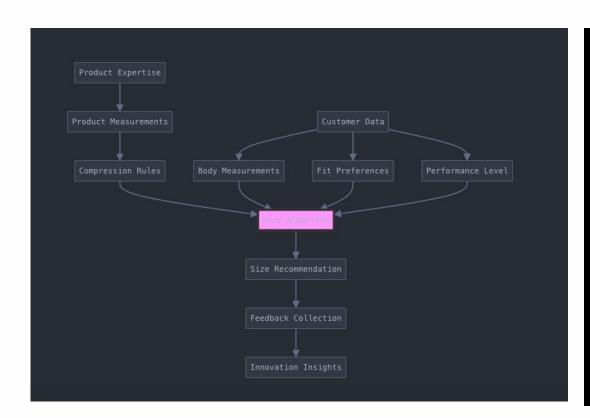


SustainableSolutionsMatch





## Details on the technology/process









## Differential value and sustainable impact



#### **Size Charts**





#### A Crisis That Demands Action

Fashion is the 2nd largest polluter, where even sustainable products become waste due to poor fit. Every misfit leads to returns, reshipping, and eventually pollution in our fields and oceans.

#### A Market Ready for Change

Starting with professional uniforms - from cycling teams to firefighters to airline staff - where fit is crucial and current manual fitting costs €10 per person. A clear opportunity to demonstrate how digital fitting can transform an industry.

#### A Mission That Matters

Creating a product-first data standard that prevents waste before it happens. By structuring product data and matching it perfectly with customer bodies, we're setting a new sustainable standard for the fashion industry.







## Market/Target audience

### **Strategic Market Focus: Professional Uniforms**

### Performance Wear

Cycling teams with custom logos & sponsoring

#### **Safety Wear**

Firefighter suits & professional equipment

## Formal Uniforms

Airlines & corporate dress codes

### Key Challenge

Split between wearer & buyer



Inefficient data

#### **Digital Solution**

Automated Fitting
Platform

Digital measurements & matching

Rack B2B Integration

Seamless process for buyers & wearers

Data-Driven
Decisions
Optimize inventory & production

### € Cost-Benefit Analysis

#### **Current Process:**

€10 per manual fitting session

#### **Our Solution:**

Digital, scalable fitting platform

#### **Business Impact**

Zero Excess Logistics

Eliminate shipping costs & returns in workwear

### Optimized Production

Precise sizing matrix from real body data

#### → Sustainable Impact

Eliminate excess stock & reduce waste



SustainableSolutionsMatch





## Let's cooperate!

Call for

Machine-innovatie voor one-piece flow



On-demand productiefaciliteiten
Technologische integratie voor made-to-measure

## #EENCanHelp

## Book a meeting with: SCIMM

Tessa Wardenburg Co-founder SCIMM +32 46828 1088













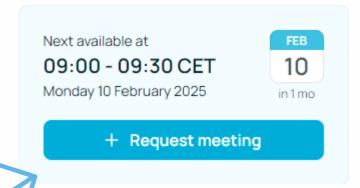




## Closing Remarks

A big thank you to all pitchers and attendees! We appreciate your participation today.

If you'd like to connect with any of the pitching companies, please use the matchmaking tool to **book a meeting!** 



Need support? Enterprise Europe Network is here to help!

Reach out to your local Network partner:

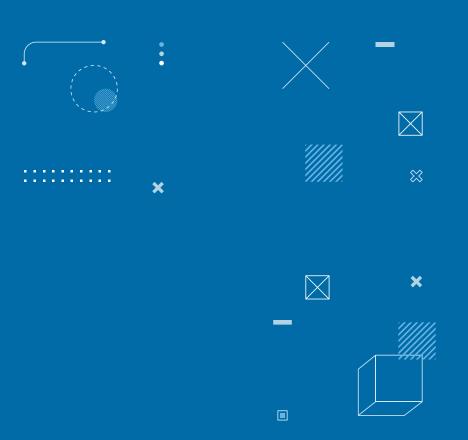
https://een.ec.europa.eu/local-contact-points



## #EENCanHelp

## Thank you!

Marta Casanova Sustainability Advisor ACCIO mcasanova@gencat.cat





een.ec.europa.eu









