

Webinar

How to promote sustainability through innovation in the textile ecosystem?

15 September 9:30 - 13:00 CET



Welcome & Introduction

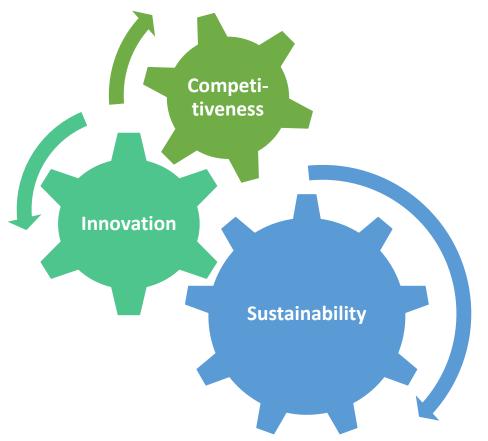


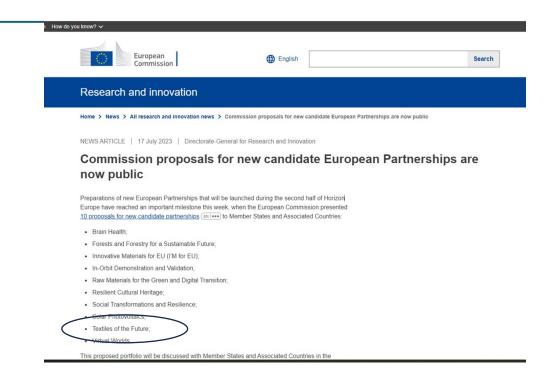
Dirk Vantyghem

Director General, EURATEX









- Estimated investment requirements for achieving circularity in the textile sector by 2030 : € 5 to 7 billion
- Decision made by the EU Commission and the Member States by the end of 2023





09:30h - 09:45	Welcome and Introduction of the STEP2030 initiative Dirk Vantyghem, Director General, EURATEX
09:45 - 10:25	Panel Discussion 1: Durable, Circular, and Biobased Materials and Processes
10:25 - 11:05	Panel Discussion 2: Safe, Low-Footprint Products, Processes & Responsible Supply Chains
11:05 - 11:15	BREAK
11:15 – 11:55	Panel Discussion 3: Digitalized Textile Materials, Manufacturing, Supply Chains, and Business Models
11:55 - 12:35	Panel Discussion 4: Smart High-Performance Materials
12:35 - 12:45	Summary of the panel discussions Lutz Walter, Secretary General, Textile ETP
12:45 – 12:55	State of play of the partnership proposal "Textiles for the future" under Horizon Europe Marie-Hélène Pradines, European Commission, DG GROW
12:55 - 13:00	Closing remarks (EURATEX)
ΡΕΔΝ ΔΡΡΔΒΕΙ	



Before we start...





Panel 1:

Durable, Circular, and Biobased Materials and Processes



Lisa Schwarz Bour

Director Environment and Sustainable Chemistry RISE, Research Institutes of Sweden

Moderator





Panel 1: Durable, Circular, and Biobased Materials and Processes



Marina Crnoja-Cosic

Director Kelheim Fibres



Ana Tavares

CEO RDD Textiles



Acerina Trejo Machin

CTO Resortecs





- World's leading viscose specialty fiber manufacturer (85 years of experience)
- Concentrated know how: long-time expert knowledge, high innovation capacity, on-site pilot plant, integration in a global R&D network, innovative fiber technologies
- Application areas: Customized solutions for requirements of different markets & applications based of fibers for Textile and Nonwoven







<u>Dr. Marina Crnoja-Cosic</u>/Director New Business Development and Marketing, Member of Management Board at Kelheim Fibres GmbH

- President ETP
- Board Member CIRFS
- Board Observer EURATEX
- Board Member FKT
- Member of Croatian Academy of Engineering

With a doctorate in chemistry, she has almost 25 years of experience in fibre and application development as well as business development.

marina.crnojacosic@kelehim-fibres.com







Kelheim Fibres in the ages of the bioeconomy revolution: Bio-based fibre solutions consistent with performance, circularity and competitiveness: our innovation approach

New products	Sustainable processes	Latest technology	Valuable cooperations		
New fibres and new applications with focus on sustainability	Circularity and Transparency as a driving force for current and future production of KF specialties	Use of new production technology	Profiting from know-how of research institutes and universities		



Opening the door to Bio-based Nonwovens in Reusable Textiles – Kelheim Fibres wins Techtextil Innovation Award

The renowned viscose specialities manufacturer Kelheim Fibres has won the Techtextil Award in the "New Concept" category for their project "Cellulose-based nonwovens for highly absorbent reusable products". This award is intended to make cutting-edge developments visible, promote unconventional thinking and intensify the dialogue between researchers, manufacturers, and users – and thus exactly matches the philosophy of the fibre expert.

What does Kelheim Fibres need to continue a successful transformation in economic and environmental terms, while remaining a 100% European speciality fibre producer?

- Policy frameworks to balance competitiveness, sustainability and innovation
- Regulation and rules
- Harmonised innovation and research landscape by creating a dedicated innovation framework



from idea to finished product in the market. At the same time, through open dia

Kelheim Fibres Emerges Most Innovative







Panel 1: Durable, Circular, and Biobased Materials and Processes



Marina Crnoja-Cosic

Director Kelheim Fibres



Ana Tavares

CEO RDD Textiles



Acerina Trejo Machin

CTO Resortecs







>2700 EMPLOYEES



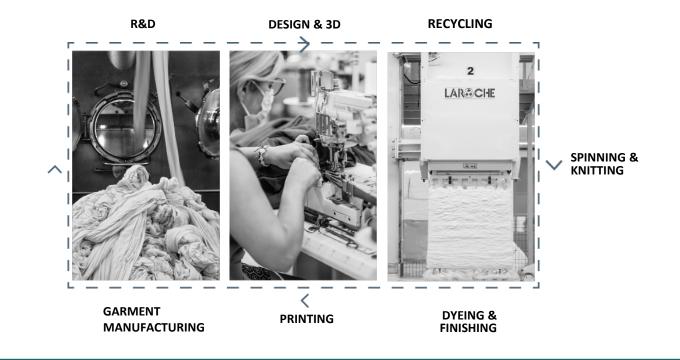
TURNOVER OF € 175 MILLION



12 MAIN TEXTILE 1 SHOES / 1 PAPER 2 AUTOMOBILE PARTS IN PORTUGAL



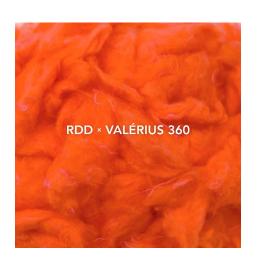
CREATING CIRCULAR BUSINESS MODELS















Big investments; specialized HR and equipment; strong collaboration between partners; both private and funded projects



Panel 1: Durable, Circular, and Biobased Materials and Processes



Marina Crnoja-Cosic

Director Kelheim Fibres



Ana Tavares

CEO RDD Textiles

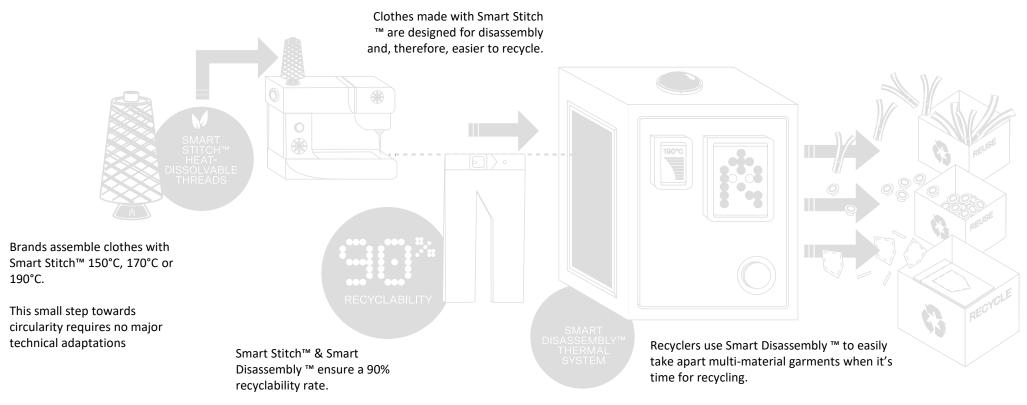


Acerina Trejo Machin

CTO Resortecs







The remaining non-recyclable content (e.g.: zippers, buttons or trims) can be downcycled or reused in new garments.

This happens 5x faster than manual disassembly and without damaging the fibers as in mechanical disassembly.



Resortecs, Recycling made Easy.







Resortecs, Recycling made Easy.



Panel 2:

Safe, Low-Footprint Products, Processes & Responsible Supply
Chains



Edwin Maes

Consultant Clothing Textiles, Centexbel

Moderator





Panel 2:

Safe, Low-Footprint Products, Processes & Responsible Supply
Chains



•Team Lead Product Innovation HUGO BOSS



Alessandro Canepa R&D manager Fratelli Piacenza



Johanna Nissén Karlsson Co-Founder & CEO Vividye







ABOUT ME

- Melanie Mikl, Team Lead Product Innovation
- 7 years experience in corporate product innovation & brand development in fashion
- Closing the gap between pre-scale innovations and corporate implementation
 - Pilot
 - Scale
 - Implement
- Focusing on new generation materials to support our sustainability strategy

ABOUT HUGO BOSS

- Global fashion brand
- Headquarter Metzingen, Germany
- Global presence:
 - 132 Countries
 - 470 Own stores
 - ~7.400 Point of sales worldwide

VISION

BECOME THE PREMIUM TECH-DRIVEN FASHION PLATFORM WORLDWIDE.

MISSION

WE LOVE FASHION, WE CHANGE FASHION.





LOW FOOTPRINT PRODUCTS

become increasingly more important for the fashion industry, due to consumer demand, environmental impact and regulations as i.e. the EU Green Deal and the Textile Strategy.

CHALLENGES

- Gap from small-scale innovations to full-scale availability
- Duration of application review
- Textile labelling regulation challenged by fast moving materials market

CASE

- BOSS THE CHANGE to fight microplastics
- Ambition to replace polyester and nylon by 2030
- Strategic partnership with HeiQ AeoniQ™
- In 2022 HUGO BOSS did an USD 5m equity investment and USD 4m exclusive partnership agreement
- Still a multi-year journey

OPP

- Increase public fund opportunities and create incentives for global fashion brands to invest
- Faster funding options to meet deadlines imposed on the fashion industry
- Allow brands to market high investment products transparently towards consumer





Panel 2:

Safe, Low-Footprint Products, Processes & Responsible Supply
Chains



•Team Lead Product Innovation HUGO BOSS



Alessandro Canepa R&D manager Fratelli Piacenza



Johanna Nissén Karlsson Co-Founder & CEO Vividye





PIACENZA IN NUMBERS



YEAR	EMPLOYEES
2022/23	284
2021	260
2019	257

ŮŮŮŮŮŮŮŮŮŮŮŮ 166 MALE EMPLOYEES > 58,4%

 PARTICION

 <tr

AVERAGE EMPLOYEE AGE 46,3

ELECTRIC ENERGY FROM RENEWABLE SOURCES



3.018.728 kWh From cogeneration: 100%

A photovoltaic system was installed in 2021 in order tto cover 100% renewable energy.

CHEMICAL PRODUCTS USED

80% Products approved by MRSL ZDHC



to be substituted

WATER CONSUMPTION

100% of the surface and ground water used during the production process is treated and reinstated in nature as part of a recirculation process.





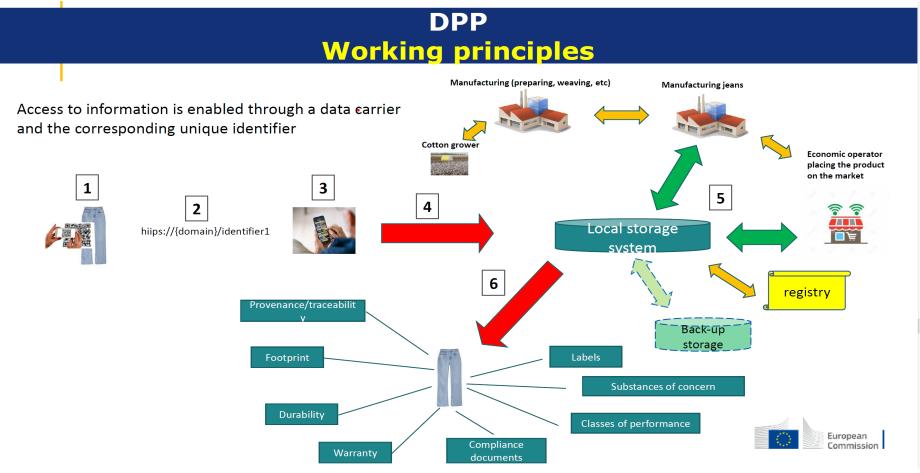


















TRICK

DPP Position Paper – DPP Compliance

Holistic approach to data representation: harmonization with data requested by other services

Matrix of data blocks reuse:



		Traceability	Preferential Certification of Origin (PCO)	Circularity Assessment	Product Environmental Footprint (PEF)	Health Protection Assessment	Ethical Assessment	A.I. for Anticounterfeting
	Product Identification	•	•	•	•			
	Bill of Component	•	•	•	•	•		
	Composition		•	•	•	•		
	Origin	•	•				•	
	Process Steplist	•	•	•	•		•	
	Certificate			•			•	
	Self Assertion	•	•	•	•		•	•
_	Assessment Study Document	•	•	•	•	•	•	
	Sustainability Characteristics							
_	Bill of Material			•	•			
	Bill of Chemical			•	•			
_	Bill of Waste			•	•			
	Bill of Direct Emissions			•	•			
	Bill of Energy			•	•			
_	Bill of Used Water			•	•			
	Bill of Treatments	•	(simplified)	•	•	•		
	Bill of Transport	•	•		•			
	Internal Wastewater Treatment Plant			?	•			







Panel 2:

Safe, Low-Footprint Products, Processes & Responsible Supply
Chains



•Team Lead Product Innovation HUGO BOSS



Alessandro Canepa R&D manager Fratelli Piacenza



Johanna Nissén Karlsson Co-Founder & CEO Vividye



Swedish-based start-up

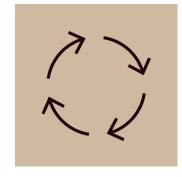
- First mover with removable textile prints



1. Textiles with prints can't be recycled today



2. We enable 20% more textiles to be recycled



3. We make textile printing circular

Johanna Nissén Karlsson - CEO & Co-Founder







Main challenges for start-ups:

- Investors in the early phase
- Capital intensive to reach a commercial product

Second Chance



Recyclable material is necessary to achieve net zero and meet EU regulations.







VIVIDYE



BREAK





Panel 3:

Digitalized Textile, Manufacturing, Supply Chains & Business Model



Thomas Gries

Professor RWTH Aachen University

Moderator





Panel 3:

Digitalized Textile, Manufacturing, Supply Chains & Business Model



Gilberto Loureiro

Co-Founder Smartex



Florence Lootens

Operations & Business
Development
Ariadne Innovation



Philippe Ribera

Director Lab Innovation Lectra



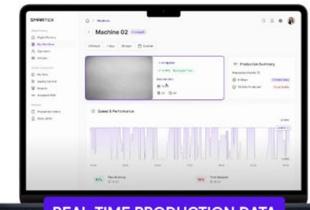


SMARTEX

AI FOR TEXTILE PRODUCTION









REAL-TIME PRODUCTION DATA

REDUCE WASTE, IMPROVE QUALITY, INCREASE SPEED TO MARKET

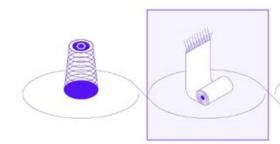


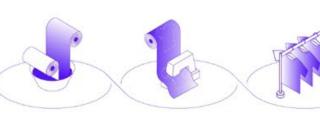


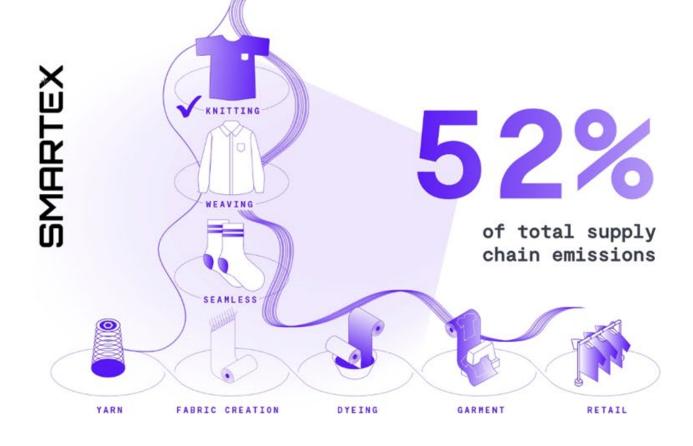
HQ in Portugal 100+ Clients

150+ Employees 1000+ Devices Sold in 11 Countries

6 Global Patents \$20M+ Invested in R&D since 2018









Modern Textile Production







- + DIGITIZATION
- + GOLDEN, PRIMARY DATA
- + INCREASED EFFICIENCY
- + REDUCED WASTE



Panel 3:

Digitalized Textile, Manufacturing, Supply Chains & Business Model



Gilberto Loureiro

Co-Founder Smartex



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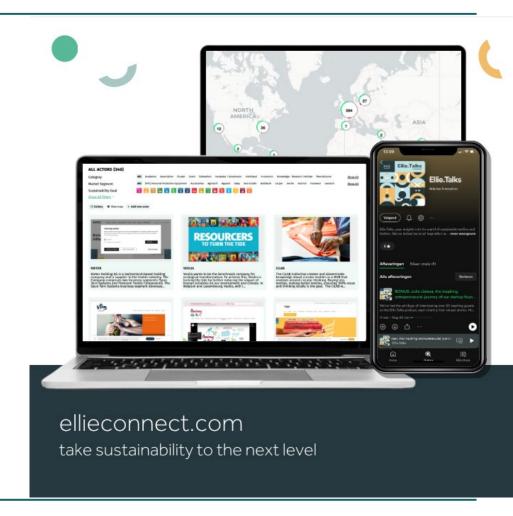


Ellie.Connect, the digital platform connecting ecosystems in textiles & fashion.

- Sustainability, Collaboration & Digitalisation.
- Network-driven, Always Available, Instant Insights

Ellie.Connect unlocks

- Network Growth: +600 members from 28 countries
- Industry Mapping: +1200 companies mapped over 22 market segments
- Knowledge Building: AI based Trend Monitoring
- Industry activity: Event, Fairs & Call Overview
- Peer2Peer Learning based on experience & concrete learnings
- Smart Matchmaking: + 100 requests handled









Needs observed in the ecosystem

- Industry driven by SME's: Financial Sustainability + Environmental Sustainability
 - Sustainability often not yet perceived as a priority
 - Direction not clear: large investments and high risk perception
- For many of the challenges, the solution is not there, large investments are needed as well as cross-segment collaboration to create a financially viable solution.
- Requires time and investment







Panel 3:

Digitalized Textile, Manufacturing, Supply Chains & Business Model



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Co-Founder Smartex



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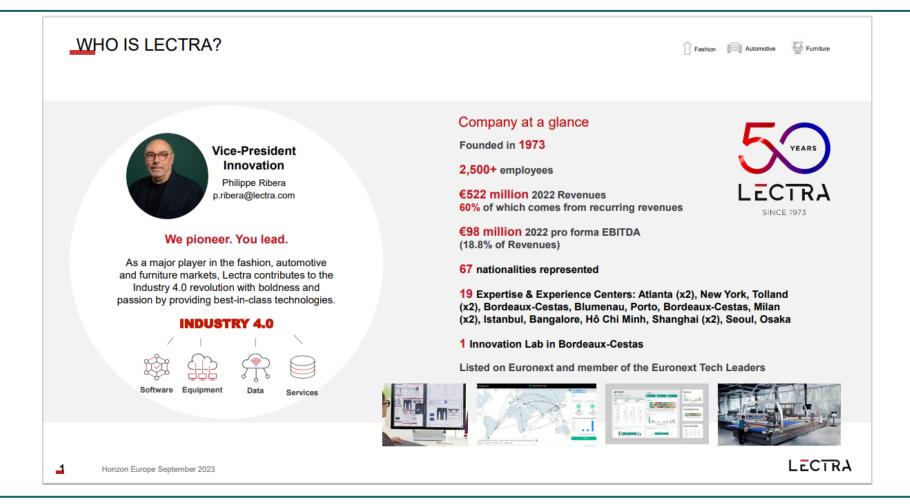


Philippe Ribera

Director Lab Innovation Lectra













POTENTIAL HIGHLIGHTS TO CONTRIBUTE TO HORIZON EUROPE PARTNERSHIP FOR TEXTILES

INVESTMENTS

√ Traceability from Fiber to Retail





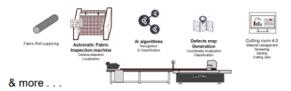








R&D – FABRIC & LEATHER DEFECT DETECTION / AI



INITIATIVES & THINK-TANKS

WITH OPEN COMMUNITIES WITH CUSTOMERS

- ✓ Traceability
- ✓ Life-Cycle Assesment / Digital Product Passport
- ✓ Retail
- ✓ Supply Chain

Textile Digital Default Data Library trained with AI, ML, ...





PARTNERSHIPS





& more

OUR EXPECTATION FROM HORIZON EUROPE IS TO FINANCE AND SUPPORT A TRACEABLE, TRANSPARENT, SUSTAINABLE & DIGITAL EUROPEAN SUPPLY CHAIN WITH AN INTERROPERABLE DATA HUB.

You & Lectra - Corporate presentation

CSR: Corporate Social Responsibility







Panel 4: Smart High-Performance Materials



Braz Costa

Director General Citeve/Textranet

Moderator





Panel 4: Smart High-Performance Materials



Christoph Peiner

Product Manager Business

Development

KARL MAYER STOLL R&D

GmbH



Roberto Momentè

Product Manager Saati SpA



Marina G. Mujal

Textile Engineer Blackfabric

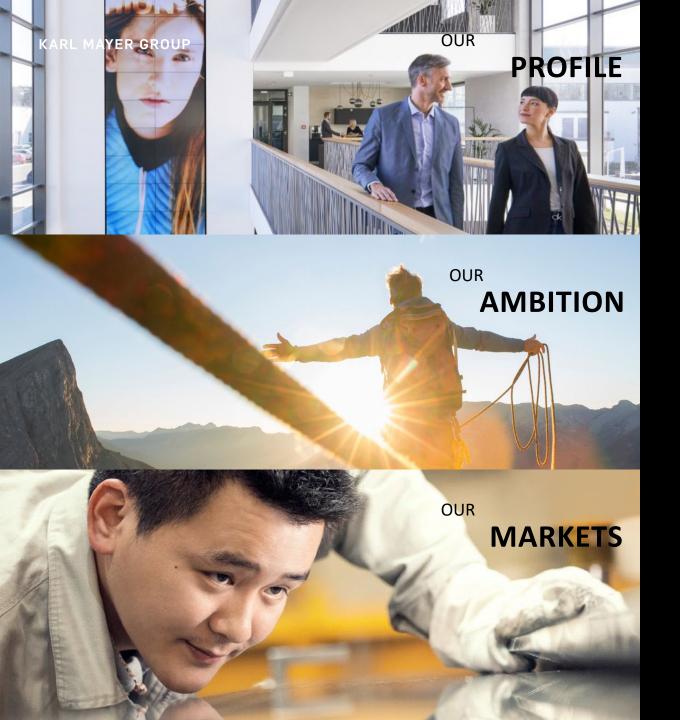


KARL MAYER GROUP

STEP2030 - Sustainable Textiles European Partnership

How to promote sustainability through innovation in the textile ecosystem?

Dr.-Ing. Christoph Peiner | 15.09.2023 | EURATEX Webinar



An international group with German roots

- 3.100 employees worldwide
- 18 locations, qualified agencies in more than 90 countries
- Family-owned German company

Our ambition is innovation

- Research & development
- Customer support
- Digital solutions for the textile value chain
- Production competence

58%

34%

8%

Asia incl. China

EMEA

Americas

We as KARL MAYER are ready to collaborate to strengthen the European market.

WHAT STEP 2030 CAN PROVIDE

- → give textile SMEs in <u>Europe</u> the ability to invest resources into innovative value chains and new textile products
- →enable new technology developments for the <u>European</u> market
- → Support investments into the <u>European</u> textile value chain





Thank you for your attention!



Dr.-Ing. Christoph Peiner Product Manager Business Development

christoph.peiner@karlmayer.com



Panel 4: Smart High-Performance Materials



Christoph Peiner

Product Manager Business

Development

KARL MAYER STOLL R&D

GmbH



Roberto Momentè

Product Manager Saati SpA



Marina G. Mujal

Textile Engineer Blackfabric

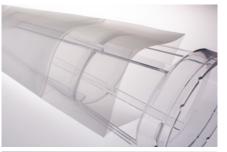


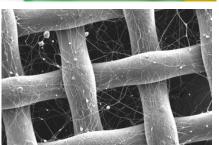


STEP2030







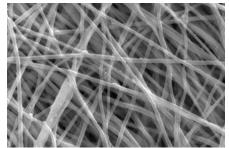












SAATI is a forefront multinational corporation specializing in research & development, production, and global distribution of state-of-the-art technical textiles, cutting-edge membranes and chemical formulations tailored for precision industrial applications.

General Overview





€ 205 M (2022)



Active Collabs

954



No. of Sites

17





Eco-friendly Materials







At the end of life, filters can be recycled for sustainable production.

Renewable Energy Systems

systems inside the fabric.

Integration of solar cells or energy storage



A Smart and Sustainable Filter Media solution for a cleaner, healthier future.



Bridging Gaps with Industrial Partners, Experts, Crafting a Multidisciplinary Vision.



Integrated IoT Sensors

Gathering data like mechanical tension, chemical components or clogging level inside the filter.



Cloud-connected IoT

Data collected and analyzed through a cloudbased platform at supplier or customer facility.



Personalization & Comfort

According to the aquired data, filter adapt to user preferences and conditions.



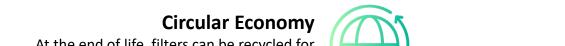
Predictive Analytics

Signal when maintenance or replacement is needed, reducing waste and increase efficiency.





SMART FILTERS







Panel 4: Smart High-Performance Materials



Christoph Peiner

Product Manager Business

Development

KARL MAYER STOLL R&D

GmbH



Roberto Momentè

Product Manager Saati SpA



Marina G. Mujal

Textile Engineer Blackfabric







WEAVING NEXT GENERATION OF FABRICS FOR COMPOSITES













- ✓ Finding ways to recycle existing carbon fiber waste.
- ✓ Creating new products from recycled fibers.



FIRST BIDIRECTIONAL FABRIC MADE WITH RECYCLED CARBON FIBERS.







Summary of the panel discussions



Lutz Walter

Secretary General, Textile ETP





State of play of the partnership proposal "Textiles for the Future"



Marie-Hélène Pradines

Head of Unit, European Commission, DG GROW



Partnership Proposal under Horizon Europe Textiles of the Future

Fourth highest-pressure category for primary raw materials/water and **fifth for GHG emissions**

Implement the EU Strategy for Sustainable & Circular Textiles, the Textiles Transition Pathway and the 16 new EU legislative initiatives relevant for the sustainable and circular transition

Innovation is key to successfully realize the twin transition



Objectives

Boost secondary sourcing of raw materials

Support design as a driver for sustainable innovation

Support creative solutions to reduce waste and overproduction

Improve the **aesthetic and functionality** of textiles

Enable digital transformation of the ecosystem

Why a co-programmed European Partnership?

Promote **industrial engagement** in R&I and boost investments (transition pathway: a dedicated support scheme on R&I)

A **common innovation framework** under Horizon Europe to overcome the current fragmentation of EU R&I funding

Partnership Proposal under Horizon Europe Textiles of the Future

- Cluster 4 "Digital, Industry and Space"
- Proposed start: 2025

Expected partners

Industry and stakeholders (EURATEX, ETP)

Research and Technology Organizations, fashion brands, environmental NGOs

DGs involved (tbc):

GROW, RTD, ENV, JRC, CNECT

Links with other European partnerships

Exchange and align strategic concepts with other relevant Partnerships

(Made in Europe, Process4Planet, Circular bio based Europe), EIT C&C

<u>Implementation</u> through the Horizon Europe work programmes and their calls for proposals

Partners to provide **input on relevant call topics** to be included in the work programmes

State of play

Preparatory work - co-creation with MS and AC, structural consultation until September

Final portfolio - together with MS and AC, adoption of the Strategic Plan 2025-2027



Closing remarks



Dirk Vantyghem

Director General, EURATEX





Sign up to show your

support for the EU

Partnership for Textiles

