

Call: HORIZON-WIDERA-2023-ACCESS-02-02

Project AldesignTEX (GA No. 101159060),

Title: Innovative It Tools For A Circular Textile Economy: Driving Sustainability And Resource Efficiency

**Agenda for Summer School “Circular Economy in Textile Production:
Shifting Towards Sustainable and Regenerative Practices”
June 15-19 2026**

Day 1 – Monday (15th June) | Introduction & Networking (TUL)- 10:00-15:00

- Welcome & opening session (TUL, AldesignTEX overview)
- Introduction of participants and partners
- Keynote: Circular Economy in Textiles – current challenges & opportunities
- Networking session / ice-breaking activities

Day 2 –Tuesday (16th June)| University of Stavanger 9:00-14:00

- Lecture: Potential Use of Artificial Intelligence (AI) for Optimal Circular Textile and Apparel Manufacturing: State-of-the-Art Approaches to Minimizing Linear Resource Consumption
- Workshop: Life Cycle Assessment (LCA) for the Textile Manufacturing Industry
- Fundamentals of Life Cycle Assessment (LCA)
- ISO Standards for LCA and Their Applicability to the Textile Industry
- Case Study: LCA of a Fabric Manufacturing Process
- Practical Session with Examples, Group Discussion

• Panel Discussion with Polish Industry Representatives Day 3 - Wednesday (17th June) | Ghent University 9:00-14:00

- Short Lecture: Advanced materials and circular textile systems
- Workshop: Material selection & recyclability assessment
- Case study session (industry-oriented)
- Interactive group work

Day 4 – Thursday (18th June) | UCAV 9:00- 14:00

- Lecture: Business models & circular economy strategies in textiles, AI in textile production .. etc
- Workshop: Circular business model design
- Case studies and best practices
- Interactive session with participants

Day 5 – Friday (19th June) | Wrap-up & Networking (TUL + invited experts) 9:00- 14:00

- Guest lectures (LCA / DPP / regulations / eco-design)
- Group presentations (results of workshops)
- Discussion & feedback session
- Closing remarks & networking

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DETAILED AGENDA

Day One "Understanding the Need for Circularity - From Global Challenges to Circular Solutions"

Time	Activity	Description
10:00 – 10:30	Welcome Coffee & Networking	Informal networking session for participants and partners.
10:30 – 10:40	Official Opening of the Summer School	Welcome address by Prof. Katarzyna Grabowska, Dean of the Faculty of Material Technologies and Textile Design and Coordinator of the AldesignTEX Project.
10:40 – 11:00	Getting to Know Each Other	Interactive ice-breaking session: <i>"Introduce Yourself and Find Three Words that Describe You"</i> .
11:00 – 11:10	Circularity Awareness Quiz	Short interactive survey assessing participants' initial knowledge and perceptions related to circular economy and sustainability.
11:10 – 11:30	Global Village Exercise	Interactive activity illustrating global challenges related to population, resource distribution, consumption patterns and environmental sustainability.
11:30 – 12:00	Why Does the Textile and Fashion Industry Need Circularity?	Discussion on the environmental impact of the textile and fashion industry, sustainable development challenges, and the key characteristics of a circular product.
12:00 – 12:30	Lunch Break	Lunch and informal networking.
12:30 – 13:00	Group Workshop: "Design the Least Circular Product"	Participants work in teams and use a "Wheel of Fortune" to randomly select a product. Each group identifies design decisions, materials, and business practices that make the product as non-circular as possible.
13:00 – 14:30	Group Challenge: "Transforming the Product into a Circular Solution"	Teams redesign the selected product according to circular economy principles and prepare a short presentation focusing on durability, reparability, recyclability, material selection, and responsible consumption.
14:30 – 15:00	Group Presentations, Reflection and Wrap-up	Presentation of team results, discussion of key lessons learned, reflection on circular design principles, and summary of Day One.

Day Two – Artificial Intelligence and Life Cycle Assessment for Circular Textile Manufacturing, Digital Tools for Sustainable and Resource-Efficient Textile Production

Time	Activity	Description
09:00 – 09:15	Morning Coffee & Networking	Informal networking and welcome.
09:15 – 11:15	Lecture	Potential Use of Artificial Intelligence (AI) for Optimal Circular Textile and Apparel Manufacturing: State-of-the-Art Approaches to Minimizing Linear Resource Consumption Prof. R.M. Chandima Ratnayake (UiS)
11:15 – 11:30	Coffee Break	Networking and refreshments.
11:30 – 12:30	Workshop	Life Cycle Assessment (LCA) for the Textile Manufacturing Industry Prof. Samindi Samarakoon (UiS) and Prof. R.M. Chandima Ratnayake (UiS).

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		Topics: Fundamentals of Life Cycle Assessment (LCA); ISO Standards for LCA and Their Applicability to the Textile Industry.
12:30 – 13:00	Lunch Break	Lunch and networking.
13:00 – 14:00	Workshop	Case Study: LCA of a Fabric Manufacturing Process; Practical Session with Examples; Group Discussion; Panel Discussion with Polish Industry Representatives.

Day Three – Circular Materials and Recycling Challenges - Understanding Textile Recyclability and Sustainable Material Choices

Time	Activity	Description
09:00 – 09:15	Introduction to Ghent University	Overview of Ghent University, its research activities and expertise in sustainability and textile recycling.
09:15 – 09:45	Challenges Associated with a Circular Economy	Key environmental, technological and economic challenges in implementing circularity.
09:45 – 10:15	Introduction to Sustainability and Circular Economy (Interactive)	Interactive discussion on sustainability principles and circular economy concepts.
10:15 – 10:45	The Current Textile Market and Material Selection	Material choices, market trends and their impact on recyclability.
10:45 – 11:00	Coffee Break	Networking and refreshments.
11:00 – 11:30	Brainstorm Session: Recycling of Jeans	Group exercise exploring opportunities and barriers in denim recycling.
11:30 – 12:00	Textile Waste Recycling	Current technologies and approaches for textile waste valorisation.
12:00 – 12:30	Textile Colouring and Finishes as Recycling Limitations	Understanding how dyes and finishes influence recycling possibilities.
12:30 – 13:00	Lunch Break	Lunch and networking.
13:00 – 13:15	Interactive Introduction to Case Studies	Preparation for practical case-study work.
13:15 – 13:45	Case Study 1: Recycling of Waste Acrylic Textiles	Analysis of challenges and solutions related to acrylic textile recycling.
13:45 – 14:15	Case Study 2: Recycling of Waste Wood Panels	Circular economy approaches in another material sector and lessons for textiles.
14:15 – 14:45	Critical Thinking in Textile Testing (Interactive)	Discussion and exercises on interpreting test results and avoiding common mistakes.
14:45 – 15:15	Textile Properties and Testing Methods	Test methods, calibration, verification, validation and interpretation of results.
15:15 – 15:30	Standards, Minimum Requirements and Final Message	Summary, discussion and key takeaways from the session.

Day Four – Turning Ideas into Action - From Circular Thinking to Market Solutions

Time	Activity	Description
9:00 – 11:00	Expert Talks (Online)	Online sessions delivered by invited experts in fast fashion, sustainability, and circular economy. Presentations will focus on current challenges,

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		opportunities, and real-world examples of circular transformation within the textile and fashion industries.
11:00 – 11:15	Coffe Break	Lunch and networking.
11:15 – 11:45	Introduction to Innovation and Entrepreneurship	Introduction to the workshop objectives and overview of the pathway from idea generation to market implementation.
11:45 – 12:15	Design Thinking Process	Introduction to Design Thinking as a methodology for developing innovative and user-oriented solutions.
12:15 – 13:20	Practical Business Idea Workshop	Participants work in teams to develop a business idea addressing a circular economy challenge in the textile and fashion sector.
13:20 – 14:00	Lunch Break	Lunch and networking.
14:00 – 14:30	No-Code App Development	Demonstration and practical exercise on developing a simple application prototype without programming skills.
14:30 – 15:00	Presentation of Results & Discussion	Presentation of team concepts, discussion of lessons learned, feedback from facilitators, and conclusions.

Day Five – Reflecting, Creating and Connecting - Visualising the Future of Circular Textiles

Time	Activity	Description
09:00 – 09:15	Morning Coffee & Networking	Informal networking and welcome.
09:15 – 10:15	Guest Expert Session	Short expert lectures on Digital Product Passports (DPP), Life Cycle Assessment (LCA), eco-design principles and emerging EU regulations for the textile sector.
10:15 – 10:45	Workshop Reflections	Review of key insights and lessons learned during the Summer School.
10:45 – 11:00	Coffee Break	Networking and refreshments.
11:00 – 13:00	Creative Workshop: "The Circular Canvas"	Participants work in interdisciplinary teams in the Faculty's painting studio, creating visual interpretations of circular economy concepts using professional painting materials and canvases.
13:00 – 13:30	Gallery Walk - with Lunch break	Reflection on the Summer School, key takeaways and future collaboration opportunities.
13:30 – 14:00	Closing Ceremony & Networking	Certificates, final remarks and informal networking.