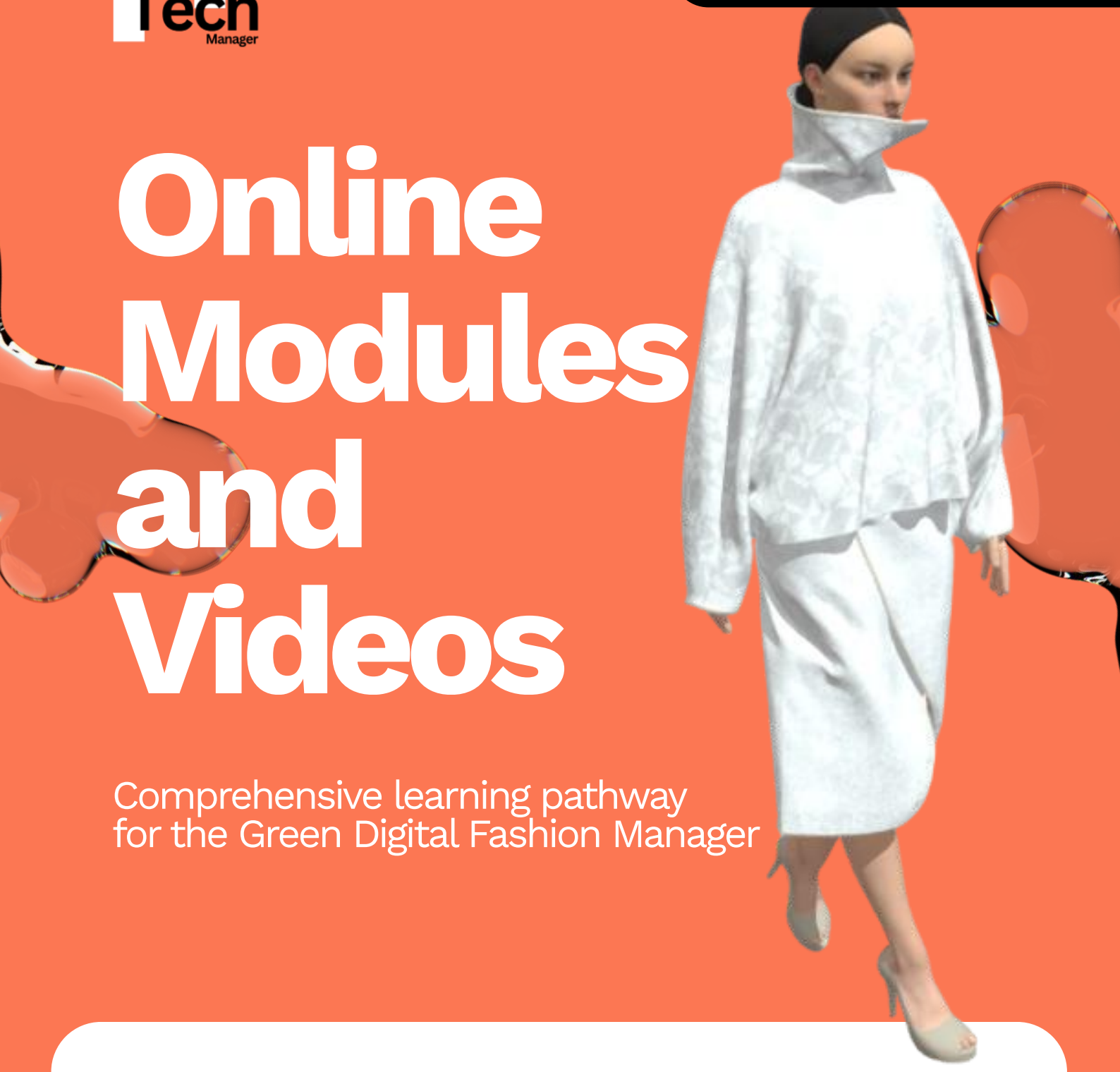
Green Digi Fash Tech Manager

Modules

Online Modules and Videos



Comprehensive learning pathway
for the Green Digital Fashion Manager

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Executive Summary

The Green Digital Fashion Manager online modules offer a comprehensive curriculum that brings together sustainability, digital technologies, business innovation, ethical manufacturing, and organisational change.

Through 5 interconnected modules and 50+ lessons, learners can build practical knowledge and strategic skills for navigating the green and digital transformation of the fashion and textile sector.

This learning pathway is designed for students, early-career professionals, fashion and textile practitioners, educators, and VET providers looking to strengthen their expertise and contribute to the sector's green and digital transition.

By completing the curriculum, learners will be equipped to connect sustainability with digital transformation, evaluate innovative technologies, develop circular business strategies, apply ethical and ESG-oriented manufacturing practices, and lead organisational change.

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1. Introduction

Following the research phase of the Green DigiFashTech Manager project, the resulting learnings and industry knowledge and expertise was distilled into the deliverable D2.2 Job Profile & Curriculum for the Green Digital Fashion Manager.

The Green Digital Fashion Manager is a leadership role responding to the increasing demand for professionals who can bridge creative design, digital innovation, and sustainability governance. The curriculum, therefore, covers essential topics related to the intersection of digital technologies and sustainability within the textile and fashion industry.

The following modules have been created as online learning units that can be taken standalone or as part of a learning pathway leading to a certificate upon successful completion.

- **Module 1: Foundations of Sustainable Fashion**
  Introduces the relationship between sustainability and digital transformation in fashion, the environmental, social, and economic pillars of sustainability, and the emerging materials and production practices that support circular and responsible systems.
- **Module 2: Digital Technologies in Fashion**
  Covers the digital tools reshaping fashion design and supply chains and how they enable virtual prototyping, transparency, and data-driven decision-making to support more efficient and sustainable production.
- **Module 3: Green Business and Management**
  Explores how fashion leaders turn sustainability into competitive advantage by combining circular business strategy with digital infrastructure, while mastering key EU regulations and the data-driven tools that make impact.
- **Module 4: Ethical and Circular Digital Manufacturing in Fashion**
  Examines responsible sourcing, procurement, and circular manufacturing practices within increasingly digitalised production environments and how they support competitive and resilient business operations.
- **Module 5: Change Management and Stakeholder Engagement**
  Presents the essentials of leading organisational change within digital and sustainability transitions, including planning and communicating change, building alignment, and engaging stakeholders effectively to achieve and sustain transformation.

2. Module Development

The modules were developed following comprehensive guidelines for creating effective e-learning modules based on current educational methodology and research in multimodal content creation for online courses. Each partner was responsible for developing their module content with the freedom to create in the way they understand best, while ensuring alignment with the overall programme structure.

The approach was fundamentally text-based: partners prepared text content as the foundation, which was then transformed into various multimodal formats to meet diverse learning needs and preferences. This text foundation also ensured consistency and quality across all delivery formats.

2.1. Key Principles

- **Modular Independence**: Each module should function as an independent mini-course, allowing learners to follow the curated sequence or access modules on demand.
- **Cross-Module Alignment**: While independent, modules must align with content before and after them, maintaining consistency in approach with similar modules.
- **Multimodal Delivery**: Content will be presented through various formats including video lectures, interactive infographics, audios, downloadable guides, and more.
- **Research-Based Design**: All content creation follows evidence-based practices.

The following sections provide detailed, research-backed recommendations for video duration, quiz design, text presentation, and accessibility to guide your content creation process.

2.2. Content

Following the principles above, each module was first written as a full-text document. We then created the first version of each online module as more of a high-level learning unit without the depth of the full document. We had planned to offer the full-text document as the first resource in the sources and further reading

section. However, we realised that it was not very user friendly; therefore, we revised every module to include the full text so users could have everything in one place.

Each module can be taken as a standalone learning unit or they can be taken together as a course, which gives a certificate upon successful completion of all modules and quizzes.

Additionally, we provide preview links to the whole modules to VET providers and practitioners in our deliverable D3.3 Educator Handbook. The handbook includes the Green DigiFashTech Manager curriculum, educational methodology, activities and assessments for each module as well as guidance on the pedagogical use of real-life events to engage students and improve the learning process for both students and trainers.

2.3. Structure

Each module is structured similarly:

- introduction
- four to seven lessons with knowledge checks
- optional between-lesson reflection exercises
- conclusion
- at least two case studies, either within the lesson text or in a dedicated section
- sources and further reading
- final quiz

Knowledge checks within the lessons are generally quick checks with one question. Scenarios require the learner to consider a situation and respond to a few questions.

Reflection exercises are an expansion of in-lesson scenarios and allow the user to record their answers so they go back to them during a review.

Quizzes contain a bank of around 15 to 30 questions per module. The learner is shown 12 questions in a random order. Each question has up to four responses shown in a random order. Learners are required to score at least 83% to pass and complete the module. In the event of a retake, learners will receive a new set of randomly ordered questions and answers. Hence, they will not receive the same exact quiz again.

2.4. Design

Initially planned to have video lessons, the modules instead were developed as what we call block and interactive lessons in order to be more engaging for the learner.

Both lesson types feature multimedia slides, similar to a presentation. Block lessons are presented like text lessons, where the slides are shown in order on page. They are used for introduction, conclusions, sources and further reading, and any case studies.

Interactive lessons are self-contained lessons shown inside a “player” with navigation buttons to go back and forth between slides. These are used for the actual learning content.

The modules also used the Green DigiFashTech Manager visual identity with logo and colours so that learners stay immersed within the project even while on a more neutral platform.

2.5. Translation

Each module landing page and content was first developed in English, then translated into the consortium partner languages: Dutch, Greek, Macedonian, and Swedish.

3. Presentation and Learning Objectives

3.1. Course: Green Digital Fashion Manager

The Green Digital Fashion Manager is a strategic leadership role, bridging the gap between creative design, digital innovation, and sustainability governance. This course provides a comprehensive training pathway structured around five interconnected modules, each addressing the essential knowledge, skills, and competencies required for green and digital transformation. Together, they offer a blueprint for fostering future-oriented, ethically grounded, and technologically fluent leaders who can drive change within organisations and across the broader European fashion ecosystem.

This course is designed as a learning pathway for students, early-career professionals, fashion and textile practitioners, and VET providers who want to upskill for the sector's green and digital transition.

By the end of the course, you will be able to:

- Explain the relationship between sustainability and digital transformation in fashion by identifying key environmental, social, and economic sustainability principles and describing how impact measurement, emerging materials, and responsible production practices support circular fashion systems.
- Evaluate how digital technologies such as 3D design, AI, IoT, and blockchain can support virtual prototyping, supply chain transparency, and data-driven decision-making for more efficient and sustainable fashion production.
- Analyse and apply sustainable business strategies for fashion management by integrating circular economy principles, relevant EU regulations, circular business models, and digital transparency tools such as PLM systems and Digital Product Passports.
- Interpret and apply ethical, circular, and ESG-oriented manufacturing practices in digitalised fashion production environments, with attention to responsible sourcing, procurement, compliance, resilience, and competitiveness.
- Plan and communicate organisational change for digital and sustainability transitions by developing stakeholder alignment, supporting engagement, and sustaining transformation within fashion and textile organisations.

3.2. Module 1: Foundations of Sustainable Fashion

This module introduces the fundamental principles that underpin sustainability within the global fashion industry and explains how digital transformation supports the transition toward more responsible, transparent and circular systems.

The module provides the conceptual foundation for understanding how sustainability and digitalization interact across the fashion ecosystem. It prepares you to explore the technologies, strategies and leadership skills required to transform the industry.

By the end of this module, you will be able to:

- Explain the relationship between sustainability and digital transformation in the fashion industry.
- Describe the three pillars of sustainability and their application in fashion.
- Understand life cycle thinking and environmental impact indicators.
- Identify circular economy principles and their relevance to fashion.
- Recognize sustainable materials and responsible production practices.
- Understand how design decisions, digital tools, and consumer behavior influence sustainability outcomes.

3.3. Module 2: Digital Technologies in Fashion

This module explores how digital technologies enable more sustainable fashion systems and the key tools—such as 3D design, virtual prototyping, and supply chain mapping—that help identify impact hotspots and reduce waste across the fashion lifecycle.

The module also examines how digital tools support sustainability across interconnected fashion systems, from design and production to use and end-of-life.

By the end of this module, you will be able to:

- Explain how fashion operates as an interconnected system and identify where key environmental and social impacts occur across the value chain
- Map a fashion supply chain and identify priority impact hotspots
- Describe how digital technologies (3D, AI, blockchain, IoT, AR/VR) support more sustainable decisions and workflows
- Select appropriate digital tools to address specific sustainability challenges

- Understand how 3D design and virtual prototyping reduce waste and improve product development efficiency
- Recognize how data, traceability, and communication tools improve collaboration across supply chain stakeholders

3.4. Module 3: Green Business and Management

This module introduces green business and management as a strategic imperative for fashion professionals navigating the twin transitions of sustainability and digitalization.

Across four lessons, you will learn to identify a sustainable business strategy, navigate EU rules (ESPR, Right to Repair, and Digital Product Passports), and choose circular business models and digital tools (PLM, blockchain, and DPP systems) that enable transparency and traceability.

This module equips you with the strategic understanding, regulatory literacy, business model frameworks, and digital tool knowledge to lead that transformation in your own organization.

By the end of this module, you will be able to:

- Analyze and apply sustainable business strategies, including circular economy principles and EU regulations (ESPR, Design for Longevity, Right to Repair, Digital Product Passports)
- Evaluate and implement circular business models in fashion
- Identify and utilize digital tools for transparency in fashion management, such as PLM systems, blockchain-connected systems, and Digital Product Passport systems

3.5. Module 4: Ethical and Circular Digital Manufacturing in Fashion

This module equips you with the knowledge, skills and competences required to design, manage and transform fashion manufacturing systems through ethical leadership, responsible business practices, circular economy principles and digital innovation.

You will explore the transition from linear production models towards transparent, resilient and circular manufacturing ecosystems while understanding the role of Corporate Social Responsibility (CSR), Environmental, Social and Governance (ESG), sustainable procurement, Industry 5.0 and emerging European legislation.

After completing this module, you will be able to:

- Explain the principles of ethical manufacturing and responsible business.
- Understand Corporate Social Responsibility (CSR), ESG and stakeholder management in fashion.
- Apply ethical leadership principles to manufacturing and supply chain decision-making.
- Evaluate sustainable sourcing and responsible procurement practices.
- Analyse circular manufacturing systems and circular supply chains.
- Understand transparency, traceability and Digital Product Passports.
- Apply circular design principles to manufacturing processes.
- Evaluate sustainable production systems and Industry 5.0 technologies.
- Identify the role of digitalisation, AI and data in ethical manufacturing.
- Understand European policies affecting sustainable manufacturing.
- Develop manufacturing strategies that combine economic, environmental and social value.

3.6. Module 5: Change Management and Stakeholder Engagement

This module explores change management and stakeholder engagement as leadership practices. It is designed for professionals working at the intersection of digital transformation, sustainability, and innovation in fashion.

Across seven lessons, you will understand the principles, frameworks, and practical tools to plan, lead, communicate, and sustain change in real conditions, from defining direction and engaging stakeholders to supporting adoption, measuring impact, and embedding new practices into the culture and operations of your organisation.

By the end of this module, you will be able to:

- Explain why digital and sustainability transformation requires organisational and people-related change, not only technology adoption
- Distinguish between managing change and leading change and exercise leadership influence regardless of formal authority
- Plan transformation initiatives by defining a clear future state, mapping stakeholder impact, and setting priorities and success criteria
- Communicate the purpose of change clearly and credibly and tailor engagement to diverse internal and external audiences, including suppliers
- Create the conditions for adoption during implementation by supporting learning, responding to resistance constructively, and designing pilots for transferable learning
- Sustain transformation through reinforcement, measurement, and embedding new practices into culture and governance
- Reflect on change initiatives as learning platforms and contribute to building organisational change maturity over time

4. Live Modules

All modules are available on the DigiFashHub either together in one learning pathway or as standalone units. Each one has been translated into four languages. The landing page is the module promotion page with learning objectives and an enrolment button. The module preview is a full preview of the module from the learner perspective inside the module player. The preview contains the full text content, and every lesson, exercise, and quiz is available to preview.

4.1. Landing Page Links

These links go to each module promotion page and should be used for learner enrolment or when sharing information about the modules.

4.1.1. Course

Green Digital Fashion Manage

Green Digital Fashion Manager (Nederlands)

Green Digital Fashion Manager (svenska)

Green Digital Fashion Manager (Ελληνικά)

Green Digital Fashion Manager (Македонски)

4.1.2. English

Foundations of Sustainable Fashion

Digital Technologies in Fashion

Green Business and Management

Ethical and Circular Digital Manufacturing in Fashion

Change Management and Stakeholder Engagement

4.1.3. Nederlands (Dutch)

Grondslagen van duurzame mode

Digitale technologieën in de mode

Groen bedrijfsbeleid en management

Ethische en Circulaire Digitale Productie in de Mode

Change Management en Stakeholderbetrokkenheid

4.1.4. Svenska (Swedish)

Grunderna i hållbart mode

Digital teknik inom mode

Grönt företagande och ledning

Etisk och cirkulär digital tillverkning inom mode

Förändringsledning och intressentengagemang

4.1.5. Ελληνικά (Greek)

Θεμέλια της Βιώσιμης Μόδας

Ψηφιακές Τεχνολογίες στη Μόδα

Πράσινη Επιχειρηματικότητα και Διοίκηση

Ηθική και Κυκλική Ψηφιακή Παραγωγή στη Μόδα

Διαχείριση Αλλαγών και Εμπλοκή Ενδιαφερομένων

4.1.6. Македонски (Macedonian)

Основи на одржливата мода

Дигитални технологии во модата

Зелен бизнис и менаџмент

Етичко и кружно дигитално производство во модата

Управување со промени и вклучување на засегнатите страни

4.2. Module Preview Links

These preview links allow public previews of each module. Individual links can also be sent to users not registered on the DigiFashHub.

4.2.1. English

Foundations of Sustainable Fashion

Digital Technologies in Fashion

Green Business and Management

Ethical and Circular Digital Manufacturing in Fashion

Change Management and Stakeholder Engagement

4.2.2. Nederlands (Dutch)

Grondslagen van duurzame mode

Digitale technologieën in de mode

Groen bedrijfsbeleid en management

Ethische en Circulaire Digitale Productie in de Mode

Change Management en Stakeholderbetrokkenheid

4.2.3. Svenska (Swedish)

Grunderna i hållbart mode

Digital teknik inom mode

Grönt företagande och ledning

Etisk och cirkulär digital tillverkning inom mode

Förändringsledning och intressentengagemang

4.2.4. Ελληνικά (Greek)

Θεμέλια της Βιώσιμης Μόδας

Ψηφιακές Τεχνολογίες στη Μόδα

Πράσινη Επιχειρηματικότητα και Διοίκηση

Ηθική και Κυκλική Ψηφιακή Παραγωγή στη Μόδα

Διαχείριση Αλλαγών και Εμπλοκή Ενδιαφερομένων

4.2.5. Македонски (Macedonian)

Основи на одржливата мода

Дигитални технологии во модата

Зелен бизнис и менаџмент

Етичко и кружно дигитално производство во модата

Управување со промени и вклучување на засегнатите страни

5. Piloting and Focus Group

A pilot of the module content was conducted during the Athens Fashion Hackathon in November 2025. Each module leader delivered dedicated pilot educational sessions of approximately 45 minutes per module in different learning spaces within the venue. The sessions were not treated simply as lectures but as formative co-creation and validation activities. Learners interacted directly with the Module Leaders, discussed the relevance and clarity of the proposed content, identified knowledge and competence needs and provided feedback on practical applications and areas requiring further development.

The face-to-face pilot was complemented by a digital focus-group and QR-code consultation, allowing participants across the wider Hackathon audience to contribute feedback concerning the emerging Green DigiFashTech Manager profile and curriculum. The consultation explored the sustainability and digital competences required by the sector, emerging technologies, professional roles, leadership and stakeholder capabilities, barriers to implementation and areas that should be strengthened within the curriculum. The feedback particularly reinforced the importance of combining digital literacy, AI and emerging technologies with circular economy knowledge, lifecycle thinking, ethical sourcing, traceability, stakeholder engagement, systems thinking and practical industry applications.

This enabled an iterative educational development cycle:

draft curriculum → live module piloting → learner interaction and co-creation → digital feedback collection → Module Leader reflection → curriculum refinement → final module development and publication

Following the formative pilot, each module leader processed the feedback and observations generated during the event and incorporated relevant findings into the further development of their module. The five final modules were subsequently developed as digital learning resources and published through the DigiFashHub, transforming the initial face-to-face pilot into a scalable e-learning programme that can continue to be accessed and exploited by learners in the partner countries and beyond.

More about the pilot can be found in the deliverable D4.4 Pilot Educational Initiative and Pairing Activity Report.

6. Sustainability and Exploitation

The Green Digital Fashion Manager learning pathway and online modules will remain online and open for enrolment on DigiFashHub. The consortium plans to ensure any updates to our modules and other project content. A lot of the material is evergreen; however, some timely information needs to be updated and/or learners will need to know the date of the latest updates.

Partners plan to continue promoting the project, its modules and content, and DigiFashHub beyond project end. They will also incorporate the modules and their content where possible within their own courses and student work.

7. Conclusion

The Green Digital Fashion Manager online modules form a multimodal learning experience covering essential topics at the intersection of digital technologies and sustainability within the industry. They provide learners with practical, engaging, and visually appealing insights and are tailored to accommodate diverse learning styles.

The modules are also aligned with the four pillars of impact associated with the use of digital technologies in the textile and fashion industry: environmental sustainability, social sustainability and development, cultural sustainability, and economic sustainability.

Together, they provide a comprehensive learning resource that addresses the multifaceted challenges and opportunities of digital technologies in the fashion industry.





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