



# Wp4.3 Pilot Implementation

Partnership for Footwear  
Industry 5.0 Readiness

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## 1. Introduction

### 1.1 Project Presentation

Shoe 5.0 project aims to develop an innovative training framework to support the transformation of the footwear sector in line with emerging technological, digital, and sustainability requirements.

The project addresses the need for new professional skills by creating training materials, tools, and methodologies that help workers, companies, and vulnerable groups—such as refugees—adapt to the evolving demands of the labour market.

Shoe 5.0 brings together sectoral organizations, training centres, universities, and companies from several European countries to co-design learning solutions aligned with the principles of Industry 5.0. The project promotes a human-centred, sustainable, and resilient production model, enhancing the capacity of the footwear workforce to integrate advanced technologies while maintaining craftsmanship and creativity.

Throughout its work packages, the project develops an educational framework, training kits for trainers and trainees, a self-assessment tool, awareness sessions for companies, and pilot training sessions implemented across partner countries. These actions support the upskilling and reskilling of current and future professionals and reinforce the attractiveness of the footwear sector for new generations. Ultimately, Shoe 5.0 contributes to strengthening innovation, competitiveness, and social inclusion within the European footwear industry by providing accessible, high-quality learning solutions capable of meeting today's and tomorrow's challenges.

A core element of Shoe 5.0 is the validation of the training methodology and the learning tools developed throughout the project. Since the footwear sector is undergoing rapid transformations driven by digitalisation, automation, sustainability requirements, and new workforce dynamics, it is essential that the proposed educational framework reflects real training needs and operational conditions. For this reason, the project partners considered a pilot phase indispensable to ensure that the contents, pedagogical approaches, and training kits are not only theoretically sound but also practical, engaging, and effective for different learner profiles.

The piloting also responds to the project's commitment to inclusiveness and labour-market relevance. By testing the training sessions with diverse users - including workers, young learners, and refugees seeking to acquire new professional skills - the partnership aimed to assess whether the Shoe 5.0 methodology can support upskilling and reskilling in authentic learning environments.

The pilot implementation provides concrete evidence on how trainees interact with the materials, how trainers apply the methodology, and how companies can integrate the acquired competences.

This process is essential for refining the final outputs and ensuring their quality, usability, and long-term sustainability across the European footwear ecosystem.

## 1.2 Report Objectives

The main objective of this report is to document the pilot implementation of the Shoe 5.0 training sessions, carried out in Portugal, Italy, Spain, and Romania. The report aims to provide a detailed overview of the planning, execution, and initial outcomes of the pilot, highlighting both successes and areas for improvement.

Specifically, the report seeks to:

1. Describe the preparation and organization of the pilot sessions, including participant engagement and trainer involvement.
2. Present the implementation process, detailing the activities carried out, the learning methods applied, and the support provided to trainees.
3. Evaluate the effectiveness of the training methodology using qualitative and quantitative feedback, including results from the Kirkpatrick Model assessment.
4. Identify lessons learned and recommendations for refining the Shoe 5.0 training kits, self-assessment tools, and pedagogical approach.

By achieving these objectives, the report provides the partnership with evidence-based insights to improve the training framework and ensure its sustainability and relevance for broader dissemination in the footwear sector.

## 1.3 Methodology

To ensure a comprehensive test of all training materials and the e-learning platform, each partner committed to reaching a predefined number of participants, as established in the project application. Partners were encouraged to involve more participants whenever possible, ensuring extensive coverage of the five training paths and the multiple target-group profiles at various competency levels.

This approach guarantees that the piloting delivers high-quality results and contributes effectively to the refinement and improvement of the Shoe 5.0 outputs.

The main objectives of the piloting phase can be summarised as follows: Validate, Test, Consolidate, Demonstrate the value of the solutions, explore the potential of new learning tools, and foster links with target groups and relevant stakeholders.

These objectives guided all pilot activities, ensuring alignment with the project's overall goals.

### Phase 1: Preparation of the Pilot Sessions (including Awareness Sessions)

This task focused on preparing the pilot implementation and testing the training methodology and materials developed up to this stage of the project.

Participants were recruited from each partner's network, with five awareness sessions organised in Portugal, Spain, Italy, Romania, and at the Pan-European level to engage potential trainees.

VET and research centres were responsible for identifying and enrolling participants, with a target of 100 trainees in total.

All partners contributed to promoting the pilot to maximise outreach and participation.

### Phase 2: Involvement of Users (Trainers, Trainees, and Companies)

This task ensured the selection of a representative and diverse audience for the pilot training sessions, following these steps:

- Recruitment via the project platform, social media, and partner networks, ensuring representation across all target groups and professional profiles.
- Initial screening of candidates to assess motivation and suitability.
- Final selection based on defined criteria, with particular attention to the target profiles.

### Phase 3: Implementation of the Pilot Training Sessions

This task involved the organisation of pilot sessions in each participating country (except Belgium), testing the training materials in real contexts. At least 100 trainees were expected to participate (approximately 25 per country), covering all five professional profiles:

- Footwear Technical Manager
- Footwear Manufacturing Operator
- Footwear Designer / Pattern Maker
- Maintenance Technician
- i5.0 Footwear Architect

Trainers and coaches were also invited to observe the sessions.

The learning platform facilitated monitoring of participants' progress and provided support throughout the pilot.

#### Phase 4: Evaluation of Training Sessions and Lessons Learned

The evaluation is conducted using the Kirkpatrick Model, guiding partners through the assessment metrics and providing templates for collecting feedback. After gathering reports from partners and feedback from trainees and trainers, there will be a general overview on the piloting phase.

The pilot engaged the same target groups identified in the project:

- Footwear workforce: current workers and managers, including low-skill and skilled employees, aiming to maintain interest, motivation, and acquisition of up-to-date skills.
- VET teachers, trainers, coaches, and related stakeholders: focusing on digital transition in teaching and curriculum innovation.

Recruitment ensured diversity across professional profiles, target groups, gender, and social inclusion, with a recommended 10% of participants drawn from vulnerable populations, such as immigrants, refugees, or socially disadvantaged groups.

Overall, the methodology ensured a structured, inclusive, and representative pilot implementation, supporting the validation, testing, and refinement of the Shoe 5.0 training framework.

## 2. Pilots Implementations

### 2.1 Pilots Framework

The pilot implementation of the Shoe 5.0 training sessions was conducted in Portugal, Italy, Spain, and Romania, with the objective of testing the educational framework developed in real learning contexts. This activity aimed to involve at least 100 trainees, supported by trainers and coaches, to evaluate the effectiveness of the training methodology and collect feedback for improvements.

The preparation phase included defining the pilot methodology, preparing training materials, and engaging participants, including refugees and other learners seeking new skills for the labor market. Each partner organization was responsible for conducting the sessions in their own country, providing guidance, coaching, and monitoring the learning process over the duration of the pilot week.

Evaluation was carried out using the Kirkpatrick Model, assessing trainees' reactions, learning outcomes, behaviour change, and overall results. Feedback was collected from both trainees and trainers to identify strengths and areas for improvement in the training materials, methodology, and self-assessment tools.

The pilot sessions successfully demonstrated the feasibility of the Shoe 5.0 training approach in real contexts, providing valuable insights for refining the training kits and ensuring the sustainability and broader dissemination of the project results.

### 2.2 Pilots Goals

The main goal of the Shoe 5.0 pilot activities was to validate and test the educational framework, training materials, and e-learning platform developed throughout the project. The piloting aimed to ensure that the training content is relevant, effective, and applicable to different learner profiles within the footwear sector, and to gather feedback that could support refinement and improvement of the project outputs.

Specifically, the objectives of the pilots were to:

1. Validate training materials and learning paths: Confirm the relevance, clarity, and usability of the five professional learning pathways and associated Units of Learning Outcomes (ULOs) for different target groups.

2. Test the training approaches: evaluate the effectiveness of the training methodology, including the combination of online, hybrid, and onsite learning, interactive challenges, and digital tools.
3. Assess learner engagement and motivation: measure participants' satisfaction, engagement, and perceived value of the training, identifying areas for improvement.
4. Collect feedback for improvement: Gather qualitative and quantitative data from trainees, trainers, and coaches to inform updates and enhancements to the training kits and self-assessment tools.
5. Demonstrate applicability to the sector: show how the Shoe 5.0 framework supports upskilling and reskilling processes for footwear professionals and can be integrated into real organisational contexts.

Through these objectives, the pilots provided a structured environment to validate the Shoe 5.0 solutions, demonstrate their value to the sector, and create a solid foundation for broader implementation, scaling-up, and long-term sustainability.

## 2.3 Pilots Overview

Shoe 5.0 piloting activities were conducted across multiple European countries with the objective of validating the project's learning resources, tools, and methodology. Pilots involved diverse target groups, including students, trainees, professionals, and trainers, representing both the footwear industry and the education sector.

Each pilot followed a hybrid approach, combining online and onsite sessions, and included activities such as onboarding workshops, the use of the scanning tool, exploration of Units of Learning Outcomes (ULOs), and completion of practical challenges through the mobile application. The pilots also enabled participants to test different professional profiles, ensuring that the training resources are relevant and adaptable to both current professionals and future industry entrants.

This section provides a summary of the participants, the scope of modules tested, and the professional profiles engaged in each pilot, broken down by country.

The summary is presented in tables to provide a clear overview of the piloting results at both global and national levels.

Country	Total Participants	Trainees/ Students	Trainers/ Teachers	Professionals/ Workers	Onsite Sessions	Online Sessions
Italy	25	14	4	7	1	2
Portugal	27	7	10	10	0	1
Romania	64	42	12	10	8	7
Spain	32 (21 registered)	16	5	included in trainees	1	1
<b>Total</b>	<b>148</b>	<b>79</b>	<b>31</b>	<b>27</b>	<b>10</b>	<b>11</b>

*Table 2.3.1 - Summary of participants and sessions*

The data presented in Table 2.3.1 highlight the overall reach and engagement of the Shoe 5.0 pilot activities across the participating countries.

A total of 148 participants took part in the pilots, including trainees, students, trainers, and professionals from the Footwear and education sectors. The distribution of onsite and online sessions reflects the hybrid approach adopted in all pilots, allowing flexibility for participants and facilitating the evaluation of both practical and theoretical learning pathways.

The figures also illustrate the diversity of participants involved, ensuring that the piloting process captured feedback from multiple perspectives within the industry and educational contexts.

Piloting activities aimed to validate the educational content developed within the project, structured around specific Units of Learning Outcomes (ULOs).

We analyse the Units of Learning Outcomes (ULOs) that were tested during the piloting activities across the different countries. These ULOs cover key competencies within the footwear industry, specifically designed to address the needs of professionals and trainees in the context of Industry 5.0.

Participants engaged with various ULOs through a combination of online sessions, workshops, and self-paced activities, providing valuable insights into the applicability and relevance of the content.

The data below summarizes the ULOs tested by participants in each country, allowing for a detailed evaluation of the project's educational resources.

Unit of Learning Outcome (ULO)	Number of Times Tested
ULO 1 – Management of Human Resources	56
ULO 2 – Programming Using Block Language	30
ULO 3 – Big Data in Footwear Industry	25
ULO 4 – Networking and Coworking	50
ULO 5 – Product Traceability & Supply Chain for Industry 5.0	43
ULO 6 – Artificial Intelligence (AI) in the Footwear Industry	47
ULO 7 – Manufacturing 5.0	54
ULO 8 – Co-innovation 5.0	25
ULO 9 – Corporate Social Responsibility for Footwear Industry 5.0	55
ULO 10 – Ergonomics and Digital Anthropology	37
ULO 11 – Bio-Inspired Materials and Technologies	32
ULO 12 – Wellbeing in Industry 5.0	33
ULO 13 – Circular Design, Smart Materials and Innovative Processes	37
ULO 14 – Management of Technological Changes	47
ULO 15 – Ultra and Mass Customisation	24

*Table 2.3.2 - Distribution of piloting per ULO*

The number of times each Unit of Learning Outcome was tested varies according to the learning pathways selected by participants through the scanning tool.

As the scanning process tailors the training journey to individual profiles and competence needs, not all participants were required to engage with the same ULOs, resulting in different testing frequencies across the modules.

In addition to validating the Units of Learning Outcomes, the piloting activities aimed to assess the applicability of the Shoe 5.0 training resources across the different professional profiles defined within the project framework. These profiles represent key roles within the footwear industry and were addressed through personalized learning pathways generated by the scanning tool.

This analysis focuses on the number of participants associated with each professional profile in the piloting countries, providing a quantitative overview of how extensively each profile was tested.

The data are presented by countries and aggregated at a global level to highlight the coverage and balance of the piloting activities.

Professional Profile	Italy	Portugal	Romania	Spain	Total
Footwear Designer/Pattern Maker	14	6	12	2	34
I5.0 Footwear Architect	1	3	4	3	11
Footwear Manufacturing Operator	7	4	2	2	15
Maintenance Technician	–	3	3	3	9
Footwear Technical Manager	3	11	26	2	42

*Table 2.3.3 - Distribution of professional profiles piloted per country*

The results presented in Table 2.3.3 show that all professional profiles identified by the Shoe 5.0 project were tested during the piloting phase. The distribution of participants across profiles reflects the diversity of target groups involved, including trainees, professionals, and trainers from both the industrial and educational sectors.

This wide coverage ensured that the learning pathways and training content were evaluated from multiple professional perspectives, supporting the validation of the Shoe 5.0 approach as adaptable to different roles within the footwear value chain.

## 2.4 Italian Pilot

The pilot activities in Italy were conducted from March to September 2025 in a hybrid format with 2 groups of participants, including professionals, workers, students and teachers. All the sessions gathered 25 registered users.

### **Context and Participants**

The first stage of recruitment and advertising consisted of organising the Awareness Session.

The Italian Shoe 5.0 Awareness Session were addressed to entrepreneurs and employees of small and medium enterprises, representatives from the footwear sector association, teachers and students.

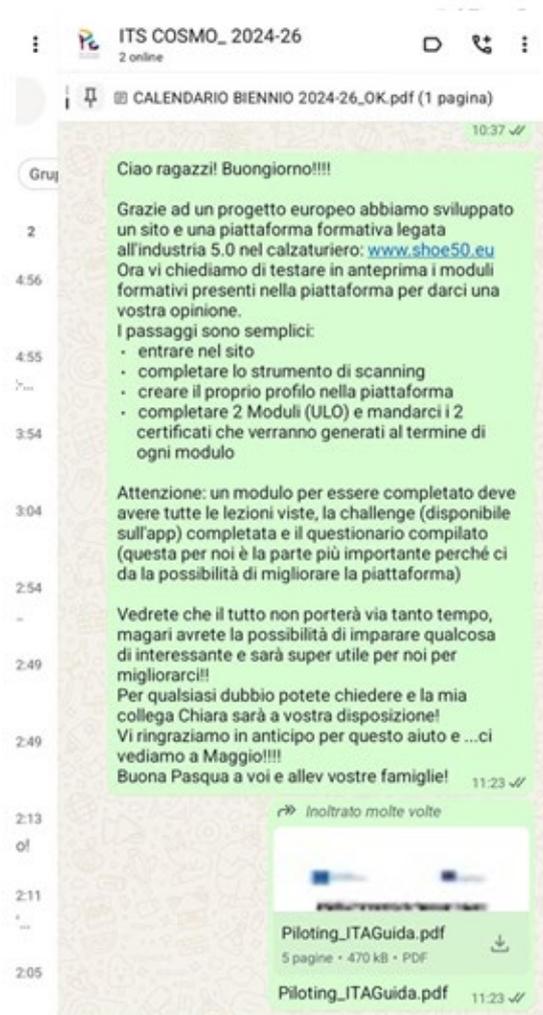
These sessions were organised in October 2024.

The participants were invited to participate in piloting events through personalised presentations and messages, which included information about the project and the activities.

The piloting was also disseminated through two dedicated events: the December event of the RIR Face Design, where - alongside the presentation of the 2025 network programme - we introduced the piloting activities; and the end-of-year meeting with teachers and consultants, during which the piloting proposal was presented again. The 2 events included footwear producers and engineers, experts from universities and research centres, teachers and freelancers.

The Shoe 5.0 Piloting in Italy gathered 25 registered users, including 7 professionals and workers, 14 students, 4 teachers.

Figure: WhatsApp message to a class of ITS students, a post-diploma footwear course.



### ***Implementation Details***

The pilot activities in Italy were conducted from March to September 2025 in a hybrid format with 3 main groups of participants, including:

- Professionals and workers – 1 group, online session
- Trainers – 1 group, online session
- Students – 1 group, onsite session

	<b>Group 1</b>	<b>Group 2</b>	<b>Group 3</b>
<b>Target Group</b>	<i>Professionals and workers</i>	<i>Teachers</i>	<i>Students</i>

<b>Session Type</b>	<i>Online</i>	<i>Online</i>	<i>Onsite</i>	<b>TOTAL</b>
<b>Participants</b>	7	4	14	25

The online sessions were followed autonomously by participants, organized according to the different target groups, and supported remotely by tutors from Politecnico Calzaturiero. The onsite activities were implemented by students of the ITS Cosmo course for Fashion Shoes Coordinator during their in-person training hours, with the support of the teaching staff.

This approach allowed us to evaluate different types of participants, collecting their inputs and assessing the impact of the piloting both on those already working in the sector and on those training to enter it.

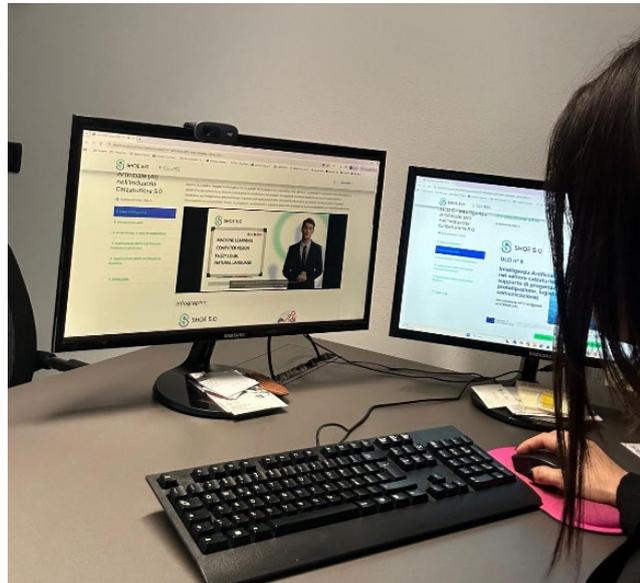
In total, there were 2 online sessions (divided per target group) and 1 onsite piloting.

The initial meetings served as an introduction to the piloting activities, explaining the objectives and the steps to be carried out. For the online groups, these introductory sessions were conducted one-to-one, while for the onsite group the introduction was delivered collectively in the classroom.

During these sessions, participants received guidance on how to use the platform and the mobile application, completed the initial scanning tool questionnaire, and created their accounts.

Subsequent activities included the presentation and discussion of selected Units of Learning Outcomes from the Shoe5.0 platform, as well as the completion of the challenges available in the mobile application. Part of the content was explored autonomously by participants at their own place.

Across the three participant groups, all five professional profiles were analysed, based on the results of the scanning tool and the corresponding learning pathways. At the end of the piloting, participants completed a feedback questionnaire and downloaded a certificate.



*Shoe 5.0 Piloting in Italy: Photos from a Freelance (her home)*

## 2.5 Portuguese Pilot

The pilot activities in Portugal were conducted from March to September 2025 in an online format with professionals, workers, entrepreneurs, students, VET trainees, trainers, teachers, coaches, totalizing 27 participants. The success of the Shoe 5.0 e-learning pilot in Portugal was closely linked to the national and institutional context, which provided both opportunities and a supportive framework for innovation in vocational education and training (VET, IT partners, association, companies).

The call for pilot was done through newsletter, social media communication, announcements in the association journal and direct contacts, as follow:

**Facebook:** [No âmbito do... - Centro Tecnológico do Calçado de Portugal | Facebook](#)

**Instagram:** [Instagram](#)



**ctcpportugal** A seguir ...

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No âmbito do projeto europeu Shoe 5.0, já se encontra disponível um curso online inovador, destinado a preparar o setor do calçado para a transição digital e sustentável, inteiramente alinhado com os princípios da Indústria 5.0.

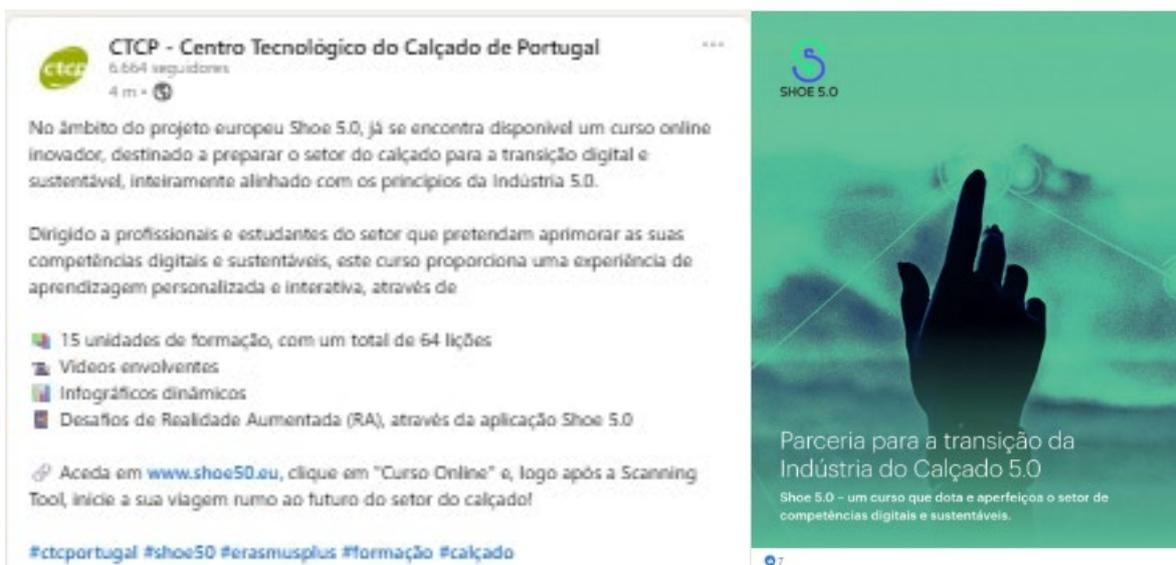
Dirigido a profissionais e estudantes do setor que pretendam aprimorar as suas competências digitais e sustentáveis, este curso proporciona uma experiência de aprendizagem personalizada e interativa, através de

- 15 unidades de formação, com um total de 64 lições
- Vídeos envolventes
- Infográficos dinâmicos
- Desafios de Realidade Aumentada (RA) através da aplicação Shoe 5.0

7 31/7

Adicionar comentário...

**LinkedIn:** [https://www.linkedin.com/posts/ctcpportugal\\_ctcpportugal-shoe50-erasmusplus-activity-7356730424615694337-JQcZ?utm\\_source=share&utm\\_medium=member\\_desktop&rcm=ACoAAAR-SOAOBIMCn5LIYh0Dma1iSJmpQlhVjsZU](https://www.linkedin.com/posts/ctcpportugal_ctcpportugal-shoe50-erasmusplus-activity-7356730424615694337-JQcZ?utm_source=share&utm_medium=member_desktop&rcm=ACoAAAR-SOAOBIMCn5LIYh0Dma1iSJmpQlhVjsZU)



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No âmbito do projeto europeu Shoe 5.0, já se encontra disponível um curso online inovador, destinado a preparar o setor do calçado para a transição digital e sustentável, inteiramente alinhado com os princípios da Indústria 5.0.

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Aceda em [www.shoe50.eu](http://www.shoe50.eu), clique em "Curso Online" e, logo após a Scanning Tool, inicie a sua viagem rumo ao futuro do setor do calçado!

#ctcpportugal #shoe50 #erasmusplus #formação #calçado

Parceria para a transição da Indústria do Calçado 5.0

Shoe 5.0 – um curso que dota e aperfeiçoa o setor de competências digitais e sustentáveis.

**CTCP's website:** [Curso para profissionais e estudantes do setor aperfeiçoa competências digitais e sustentáveis](#) | [Notícias](#) | [CTCP](#)



The screenshot shows the CTCP website interface. At the top, there is a navigation bar with the CTCP logo and menu items: 'Áreas de Atuação', 'Notícias', 'Projetos', 'Publicações', and 'CTCP'. The main content area features a news article titled 'Curso para profissionais e estudantes do setor aperfeiçoa competências digitais e sustentáveis'. The article includes a sub-headline 'No âmbito do projeto Shoe 5.0', a list of tags (Formação, Indústria 3.0, Notícia, Sustentabilidade, Transição Digital), and a main image of a hand reaching towards a glowing digital interface. The text of the article describes the course's purpose, its alignment with Industry 5.0 principles, and lists key features like personalized learning and multimedia content. It also mentions the course is available in five languages and provides a link to the 'Qualifica' portal. Social media sharing buttons for Facebook, Twitter, LinkedIn, and Blogger are visible at the bottom of the article. A 'Relacionado' (Related) sidebar on the right lists other news items with their dates and view counts.

The dissemination has also been done in two editions of the **APICCAPS' journey** (Portuguese Footwear Industry Association) :

[https://www.apiccaps.pt/library/media\\_uploads/jornalapiccaps-333-ago.pdf.pdf](https://www.apiccaps.pt/library/media_uploads/jornalapiccaps-333-ago.pdf.pdf)

[https://www.apiccaps.pt/library/media\\_uploads/jornalapiccaps-332.pdf.pdf](https://www.apiccaps.pt/library/media_uploads/jornalapiccaps-332.pdf.pdf)

...and by **CEC's linkedin:** [https://www.linkedin.com/posts/european-confederation-of-the-footwear-industry-cec\\_erasmusplus-shoe50-industry50-activity-7320751363099901953-y639?utm\\_source=share&utm\\_medium=member\\_desktop&rcm=ACoAAARSOAoB-IMCn5LIYh0Dma1iSJmpQIhVjsZU](https://www.linkedin.com/posts/european-confederation-of-the-footwear-industry-cec_erasmusplus-shoe50-industry50-activity-7320751363099901953-y639?utm_source=share&utm_medium=member_desktop&rcm=ACoAAARSOAoB-IMCn5LIYh0Dma1iSJmpQIhVjsZU)

# SHOE 5.0 na SIMAC 2025!

Visite-nos e descubra como a cooperação europeia está a **transformar a formação profissional** no setor do calçado com **foco nas pessoas, na tecnologia e no planeta** — rumo à Indústria 5.0

O projeto Erasmus+ SHOE 5.0 estará presente com stand próprio, na seguinte localização:

**Hall 10  
Stand K15**

**SIMAC Tanning Tech**  
23–25 Setembro. 2025. Milão

Curso online já disponível

**15 unidades de formação**  
Relacionadas com a Indústria 5.0 aplicadas ao setor do calçado.

[shoe50.eu/course](http://shoe50.eu/course)





**European Confederation of the Footwear Industry (CEC)**  
1.024 seguidores  
7 m · ON

**Piloting is ON!**  
The #ErasmusPlus project Shoe 5.0 has officially entered the testing phase — and now you can try out all the training materials we've developed for you!

What's waiting for you?

- 15 units with 64 lessons
- Dynamic infographics
- Engaging videos
- Augmented Reality (AR) challenges via the #Shoe50 app

Access the platform <https://shoe50.eu/Default>  
Click on "Online Course" and, right after the Scanning Tool, start your training journey towards the future of the footwear sector.

Follow Shoe 5.0 on Facebook and Instagram to keep moving towards #industry50 in the #footwear sector! 📸 📺

Exibir tradução

**SHOE 5.0** Co-funded by the European Union

**Pilot Sessions** ON

About Start Help Desk Invite Progress

**e-Course**

**ULO 1 - Management of Human Resources for Industry 5.0**  
Estimated time: 123 H



- Video and Infographic completed
- People Management in the Age of Innovation completed
- Communication and Empathy completed
- Emotional Intelligence completed
- Problem Solving completed
- Leadership in Industry 5.0 completed

Explores human resource strategies to manage diverse

And in the **CTCP's newsletter**:

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[Formação Executiva + Emissões GEE + ETC](#)

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Membro Honorário da Ordem do Infante D. Henrique

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2, 4 e 11 de junho | Online

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Projeto Shoe 5.0

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17 outubro | 18h15

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Candidaturas a decorrer

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## Context and Participants

Portugal's footwear sector is characterized by a network of small and medium-sized enterprises (SMEs) that are highly receptive to innovation, especially when it contributes to improve the productivity, sustainability, and competitiveness. The presence of motivated professionals, trainers, and managers willing to explore new methodologies and digital solutions created an enabling environment in which the pilot could be effectively tested and refined.

Portugal has been increasingly committed to promoting Industry 4.0 and 5.0 approaches within its industrial sectors, including footwear, through national strategies focused on digital transformation, technological modernization, and the development of advanced skills. These strategic priorities created a favourable environment for introducing innovative training initiatives such as the Shoe 5.0 project, aligning with ongoing efforts to enhance workforce adaptability, employability, and sector competitiveness.

At the institutional level, the pilot benefited from strong engagement by CTCP, The Portuguese partners and industry stakeholders, which are accustomed to collaborating in projects that bridge learning, technology, and workplace practices. Some of the partners involved in the pilot had experience in delivering online and blended learning programs, which ensured that the digital infrastructure,

pedagogical methods, and support mechanisms were already in place. This familiarity with e-learning platforms and virtual teaching strategies was crucial in facilitating smooth course delivery and participant engagement.

The Shoe 5.0 initiative has brought together a diverse and highly engaged group of participants who took an active role in piloting the e-learning course on Industry 5.0 applications in the footwear sector. This group includes technicians, trainers, and managers, all united by a strong interest in understanding and applying i5.0 principles to enhance innovation, productivity, and sustainability within their organizations.

Technicians contributed their practical expertise during the pilot, providing valuable feedback on course content, usability, and relevance to real-world footwear production processes. Their insights helped ensure that the e-learning materials effectively translate complex i5.0 concepts into actionable practices on the shop floor. Trainers played a key role in supporting the pilot by guiding peers through the learning process, evaluating pedagogical effectiveness, and suggesting improvements to enhance knowledge transfer. Managers and strategic coordinators, offered a strategic perspective, assessing how the course could support organizational planning, workforce development, and the sustainable integration of i5.0 innovations.

Other participants besides trainers, managers and technicians brought complementary skills and insights in digital solutions, process optimization, and cross-functional collaboration, enriching the pilot experience and ensuring that the course content addressed the needs of a wide range of professional profiles.

Collectively, this group formed a dynamic learning community, providing critical feedback that shaped the e-learning course into a practical and engaging tool for implementing i5.0 in footwear. Their active participation not only validated the course design but also fostered a collaborative environment in which innovation, knowledge sharing, and the practical application of i5.0 principles could thrive.

### Implementation Details

The pilot activities in Portugal were carried out between March and September 2025, delivered entirely in an online format to ensure accessibility and flexibility for all participants. The pilot engaged a diverse group of 31 individuals, including professionals, workers, entrepreneurs, students, VET

trainees, trainers, teachers, and coaches, representing a broad spectrum of expertise and experience within the footwear sector. This diversity enabled rich interactions and knowledge exchange, allowing participants to explore the practical applications of Industry 5.0 concepts from multiple perspectives. Throughout the six-month period, participants actively engaged with the e-learning course, providing feedback on content, usability, and relevance, which was instrumental in refining the course materials. The pilot not only facilitated individual learning and skill development but also fostered a collaborative learning environment, promoting the integration of innovative i5.0 practices into real-world professional contexts across Portugal.

During the pilot activities in Portugal, several challenges emerged, reflecting both the diversity of participants and the novelty of the e-learning course on Industry 5.0 in the footwear sector. One of the primary difficulties was ensuring that participants with varying levels of prior knowledge and digital literacy could fully engage with the online platform. While some participants were highly experienced with digital tools and industrial technologies, others were less familiar, which initially created differences in learning pace and confidence. This challenge was addressed through targeted support measures, including step-by-step guidance, tutorial sessions, and responsive technical assistance, ensuring that all participants could navigate the course content effectively.

Another challenge was maintaining high levels of engagement and interaction in a fully online environment over an extended period. To manage this, the course incorporated interactive elements, practical exercises, and discussion forums, while trainers and facilitators actively encouraged peer-to-peer collaboration and regular participation. Scheduling was also carefully managed to accommodate participants' professional and personal commitments, providing flexibility without compromising learning continuity.

Feedback collection presented its own difficulties, as some participants were initially hesitant to provide detailed reflections or suggestions. This was overcome by implementing structured feedback tools, regular check-ins, and personalized follow-ups, creating a supportive environment in which participants felt comfortable sharing their experiences.

Overall, these challenges were successfully managed through a combination of technical support, pedagogical strategies, and proactive communication. As a result, the pilot not only delivered

valuable learning experiences but also generated practical insights that contributed to the refinement of the e-learning course, ensuring it is accessible, engaging, and relevant for a wide range of professional profiles in the footwear sector.

In summary, the alignment of national priorities on industrial modernization, the institutional readiness of educational providers, and the openness of the footwear sector to innovation were key factors that determined the success of the e-learning pilot. This context ensured not only a high level of participation and engagement but also the relevance and applicability of the Shoe 5.0 training materials for real-world professional practice in Portugal.

## 2.6 Romanian Pilot

The pilot activities in Romania were conducted from March to May 2025 in a hybrid format with 5 groups of participants, including professionals, workers, entrepreneurs, students, VET trainees, trainers, teachers, coaches. All the sessions gathered 64 registered users.

### **Context and Participants**

The first stage of recruitment and advertising consisted of organising the Awareness Sessions.

The Romanian Shoe 5.0 Awareness Sessions were addressed to employees of small and medium enterprises, representatives from the footwear sector association, teachers, students, and freelancers. These sessions were organised in October 2024.

The participants were invited to participate in piloting events through personalised emails (**Annex 1a**), which included information about the project and the activities.

Participants were invited to use a registration form.

The piloting was disseminated as well during the Multiplier Event (**Annex 1b**) in Romania for the ShoeDES project (<https://shoedes.eu/#1>) were participated 56 participants, including footwear producers and engineers, teachers and students from VET schools, freelancers, and researchers.

Several advertising items have also been created on:

- Footwear and Leather Goods Design and Technology department's Facebook page <https://www.facebook.com/profile.php?id=100057592084160> (**Annex 1c**);

- Footwear and Leather Goods Design and Technology department's website <https://dima-incaltaminte.ro/shoe5-0-pilotare-fii-primul-care-testeaza-resursele-educationale-dezvoltate/> (**Annex 1d**).

The Shoe 5.0 Piloting in Romania gathered 64 registered users, including *10 professionals, workers, entrepreneurs, 42 students, VET trainees, 12 trainers, teachers, coaches*.

The list of participants is presented in **Annex 2a** for online and **Annex 2b** for onsite activities.

### **Implementation Details**

The pilot activities in Romania were conducted from March to May 2025 in a hybrid format with 5 groups of participants, including:

- Professionals, workers, entrepreneurs – 1 group, online sessions
- Students, VET trainees – 3 groups, onsite sessions
- Trainers, teachers – 1 group, online session

The online sessions were conducted via the Google Meet platform, while the onsite sessions took place at the Faculty of Industrial Design and Business Management.

In total, there were 7 online meetings and 8 onsite meetings.

The piloting was conducted in accordance with the Agenda presented in **Annex 3**.

### **AGENDA**

	<b>Group 1</b>	<b>Group 2</b>	<b>Group 3</b>	<b>Group 4</b>	<b>Group 5</b>
	<b>Professionals, workers, entrepreneurs</b>	<b>Students, VET trainees</b>	<b>Students, VET trainees</b>	<b>Students, VET trainees</b>	<b>Trainers, teachers, coaches</b>
	<i>Online</i>	<i>Onsite</i>	<i>Onsite</i>	<i>Onsite</i>	<i>Online</i>
<b>Date</b>	<b>15 March 2025</b> 10:00-13:00	<b>1 April 2025</b> 12:00-14:00	<b>1 April 2025</b> 14:00-16:00	<b>2 April 2025</b> 14:00-16:00	<b>15 April</b> 12:00-14:00
<b>Workshop 1</b>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>

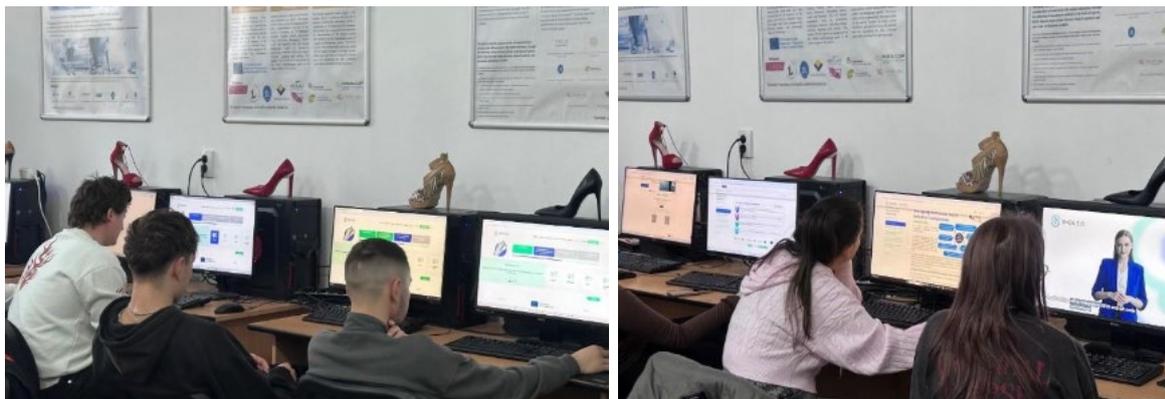
Date	22 March 2025 10:00-13:00	5 May 2025 12:00-14:00	5 May 2025 14:00-16:00	14 May 2025 14:00-18:00	
<b>Workshop 2</b>	<i>ULO 5 - Product Traceability &amp; Supply Chain for Industry 5.0</i>	<i>ULO 1 - Management of Human Resources for Industry 5.0 &amp; ULO 9 - Corporate Social Responsibility for Footwear Industry 5.0</i>	<i>ULO 1 - Management of Human Resources for Industry 5.0 &amp; ULO 9 - Corporate Social Responsibility for Footwear Industry 5.0</i>	<i>ULO 6 - AI in Footwear Industry 5.0 &amp; ULO 7 - Manufacturing i5.0</i>	<i>Individual work</i>
Date	29 March 2025 10:00-14:00	20 May 2025 12:00-14:00	20 May 2025 14:00-16:00		
<b>Workshop 3</b>	<i>ULO 7 - Manufacturing i5.0 &amp; ULO 15 - Ultra and Mass Customisation</i>	<i>ULO 12 - Wellbeing in Industry 5.0 &amp; ULO 14 - Circular Design, Smart Materials, and Innovative Processes</i>	<i>ULO 4 - Networking &amp; Coworking &amp; ULO 7 - Manufacturing i5.0</i>	<i>Individual work</i>	<i>Individual work</i>
Date	5 April 2025 10:00-13:00				
<b>Workshop 4</b>	<i>ULO 8 - Co-innovation 5.0</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>
Date	6 April 2025 10:00-13:00				
<b>Workshop 5</b>	<i>ULO 11 - Bio-Inspired Materials and Technologies</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>
Date	12 April 2025 10:00-13:00				
<b>Workshop 6</b>	<i>ULO 13 – Management of Technological Changes</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>

The initial meetings were introductory, providing a general presentation of the project, followed by an overview of the content and outcomes. Participants then completed the initial scanning tool questionnaire and created their user accounts.

Subsequent sessions involved the presentation and discussion of specific Units of Learning Outcomes from the Shoe5.0 platform, as well as completing the challenges available through the mobile application. Additionally, some of the content was covered at the participants' individual pace.

At the end, participants completed a feedback questionnaire and downloaded a certificate corresponding to the completed module.

During this pilot phase in Romania, all five professional profiles and all Units of Learning Outcomes were tested and validated.



*Shoe 5.0 Piloting in Romania (selection of pictures)*

## 2.7 Spanish Pilot

The pilot activities in Spain were conducted on July 2025 and, according to the collected data, the Spanish pilot gathered 25 participants from the footwear sector and 7 participants from the education and training sector.

Finally, the registered users were 21: 16 trainees related with the footwear sector and 5 trainers and teachers.

**Context and Participants**

Participant recruitment in Spain followed a multi-step strategy targeting both footwear companies and educational institutions. In the months leading up to the pilot, several VET institutes, design schools, and universities were contacted to engage teachers and students. Personalized outreach was conducted via email, complemented by campaigns on the CTCR’s social media channels.

The pilot session was also held in conjunction with a webinar organised by the CTCR on artificial intelligence in the footwear sector, enabling the project to reach a highly relevant audience. After the webinar, all participants received the session recording along with a reminder containing instructions and links to register for the course.



*Shoe 5.0 - Promotion of the spanish piloting session*

The Spanish pilot included a total of 32 participants, representing two main target groups of the Shoe 5.0 project. Of these, 25 participants belonged to the footwear sector, including workers, technicians, and company managers from companies. Their backgrounds covered areas such as manufacturing, product development, engineering, and digitalisation, ensuring that the pilot captured perspectives from different operational levels within the industry.

In addition, 7 participants came from the education sector, including VET teachers, university lecturers, and professional trainers. Their involvement was essential to evaluate the pedagogical relevance of the training materials and explore the integration of Industry 5.0 concepts into formal and non-formal education pathways.

While 32 individuals took part to the pilot and received an introduction to the Shoe 5.0 training resources, the number of registered users who formally enrolled in the platform totalled 21.

Among them, 16 were trainees from the footwear sector, who proceeded to explore the Units of Learning Outcomes in a self-paced format. The remaining 5 were trainers and teachers, who registered to review the content, assess its applicability in training environments, and provide expert feedback.

This combination of participants ensured a balanced and representative validation of the Shoe 5.0 learning materials from both industrial and educational perspectives.

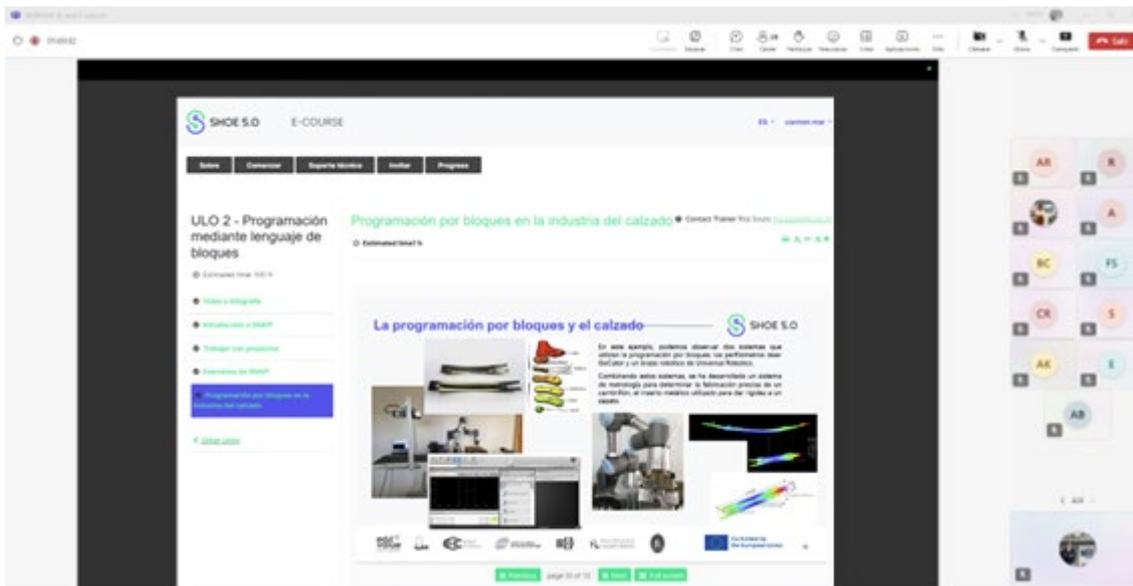
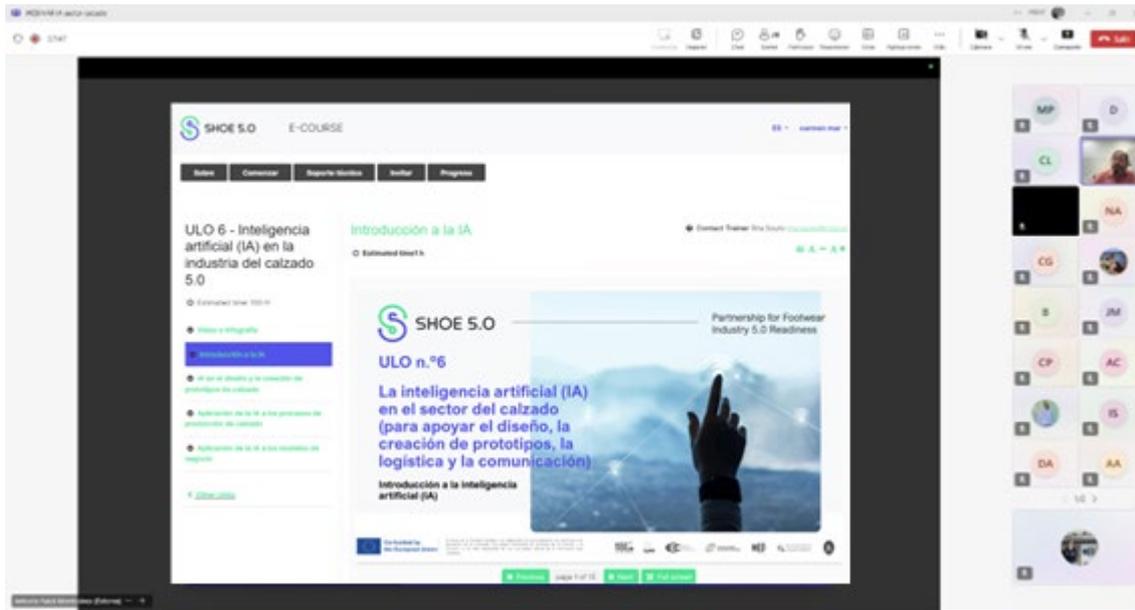
### **Implementation Details**

The pilot session took place on 17 July 2025 during a CTCR webinar on artificial intelligence applied to the footwear sector. Approximately 25 people attended the webinar, excluding organisers.

The Spanish piloting adopted a condensed format integrated into a single high-impact event, complemented by prior outreach efforts to educational institutions.

The session included:

- Session on AI applications in the footwear Industry 5.0 context.
- Presentation of the Shoe 5.0 project and objectives.
- Introduction to the scanning tool and registration.
- Demonstration of the SHOE 5.0 e-learning platform and ULOs.
- Demonstration of the SHOE 5.0 AR application and challenges
- Conclusion and feedback



### 3. Pilots Conclusions

The pilot implementation of the Shoe 5.0 training framework represents a key milestone in the project, providing concrete evidence of the effectiveness, relevance, and scalability of the developed educational model.

Across the participating countries, the pilots successfully tested the training content, digital tools, and learning methodology in real-life contexts, engaging a broad and diverse group of participants from both the footwear industry and the education and training sector.

From a methodological perspective, the piloting approach proved to be robust and flexible.

The combination of hybrid delivery formats, personalised learning pathways generated through the scanning tool, and the integration of digital platforms and mobile applications enabled participants to engage with the training materials according to their professional profile, competence level, and availability. This approach supported both structured learning environments, such as VET and higher education contexts, and more autonomous, self-paced learning experiences for professionals and workers.

In terms of participation, the pilots achieved and, in several cases, exceeded the targets initially defined in the project application. A total of 148 participants were involved across the pilots implemented in Italy, Romania, Portugal and Spain, surpassing the minimum expected threshold of 100 trainees.

The participants represented all five professional profiles defined within the Shoe 5.0 framework, confirming the capacity of the training model to address a wide range of roles along the footwear value chain. The involvement of trainers and teachers alongside trainees further strengthened the validation process, allowing the partnership to assess both the learning experience and the pedagogical applicability of the materials.

The analysis of the Units of Learning Outcomes demonstrated that all modules developed within the project were tested during the piloting phase.

While the number of times each ULO was explored varied according to the individual learning pathways selected through the scanning tool, this variation is considered a positive outcome, as it confirms the effective functioning of the personalised training logic. Rather than imposing a uniform learning path, the Shoe 5.0 model allowed participants to focus on the competences most relevant to their professional needs, reinforcing the human-centred and demand-driven nature of the approach.

Overall, the pilots can be considered successful in validating the core objectives of the project. Feedback collected during the implementation highlighted a high level of interest and engagement, particularly regarding topics related to Industry 5.0, digital transformation, sustainability, and human-centric organisational models. Participants recognised the added value of the training in supporting upskilling and reskilling processes, while trainers and educators confirmed the relevance of the content for integration into formal and non-formal education pathways.

Beyond quantitative metrics, the piloting phase also generated important qualitative outcomes. It strengthened links with companies, training providers, and sectoral stakeholders, increased awareness of Industry 5.0 concepts within the footwear ecosystem and demonstrated the potential of the Shoe 5.0 framework as a low-risk, modular solution for supporting innovation and skills development in SMEs.

In conclusion, the pilot phase has successfully validated the Shoe 5.0 educational framework, confirming its feasibility, adaptability, and alignment with the evolving needs of the European footwear sector. The metrics achieved and exceeded, combined with the positive feedback collected, provide a strong foundation for consolidating the project results and preparing their broader dissemination and long-term sustainability. The lessons learned during the piloting activities will support final refinements of the training materials and guide future exploitation and scaling strategies at national and European level.

These results confirm the readiness of the Shoe 5.0 framework for further exploitation and transfer at European level.

---

## 4. Annexes



**Arina Seul** <arina.seul@academic.tuiasi.ro>



to Adriana ▾

Bună ziua,

Avem plăcerea de a vă invita să participați la **Sesiunea de pilotare** care va fi organizată în perioada ianuarie-martie în cadrul proiectului Erasmus+ **SHOE 5.0 - Partnership for Footwear Industry 5.0 Readiness**.

În cadrul acestei sesiuni, veți putea descoperi beneficiile unice oferite de proiect:

- **Un studiu cuprinzător** despre impactul Industriei 5.0 în sectorul încălțăminte.
- **5 profiluri-cheie** pentru viitorul companiilor de încălțăminte.
- **Resurse educaționale inovatoare**, îmbogățite cu conținut AR/VR, dedicate acestor profiluri.
- **Un instrument de scanare a nevoilor de formare**, care facilitează crearea de planuri personalizate.
- **Un manual pentru formatori**, menit să sprijine procesul de pregătire profesională.

Pentru a deveni unul dintre primii beneficiari care vor testa aceste resurse și pentru a experimenta provocările AR specifice, vă rugăm să ne răspundeți la acest email sau să completați formularul disponibil aici:

[Formular de înscriere](#)

Pentru mai multe informații despre proiect, vă invităm să vizitați site-ul nostru: <https://shoe50.eu>.

Vă mulțumim și așteptăm cu interes participarea dumneavoastră!

Cu cele mai bune gânduri,

**Echipa SHOE 5.0**

# SHOE 5.0



- ULO 1 Managementul resurselor umane pentru industria 5.0
- ULO 2 Programare utilizând limbajul bloc
- ULO 3 Big Data în industria încălțămintei 5.0
- ULO 4 Networking & Coworking
- ULO 5 Trasabilitatea produselor și lanțul de aprovizionare pentru industria 5.0
- ULO 6 Inteligența artificială în industria încălțămintei 5.0
- ULO 7 Fabricația i5.0
- ULO 8 Co-inovare 5.0
- ULO 9 Responsabilitatea socială pentru industria încălțămintei 5.0
- ULO 10 Ergonomie și antropologie digitală
- ULO 11 Materiale și tehnologii inspirate din natură
- ULO 12 Bunăstarea în industria 5.0
- ULO 13 Design circular
- ULO 14 Managementul schimbărilor tehnologice
- ULO 15 Ultra-personalizarea și personalizarea în masă



**Doriți să fiți printre primii care vor avea acces la platforma și aplicația AR?**

<https://shoe50.eu/>

Arina Seul

lasmina Titu

Gabriela Apetroaiei

Aura Mihai

Mirela

anisoara schipor

mada lina

38 others

Mariana Costea

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- Anastasia Binzaru
- Andreea-Mariana Popes...
- andrei andreea
- anisoara schipor
- Arina Seul
- Arina Seul Presentation
- Aura Mihai



## Designul si Tehnologia Incaltamintei si Marochinarii

Publicat de Arina Seul



· 5 octombrie 2024 · 🌙 · 🌐

Proiectul Shoe5.0 - Parteneriat pentru facilitarea tranziției sectorului încălțămintei spre Industria 5.0 este în etapa de planificare și desfășurare a sesiunilor de pilotare adresate companiilor/lucrătorilor din industria încălțămintei, instituțiilor VET și persoanelor interesate să urmeze o carieră în industria încălțămintei. 👞👟

🌟 Descoperiți rezultatele existente ale proiectului: 📊 Un studiu cuprinzător asupra Industriei 5.0 în sectorul încălțămintei 💡 5 profiluri-cheie pentru viitorul companiilor de încălțămintă 📖 Resurse educaționale pentru viitoarele profiluri-cheie, îmbogățite cu conținut AR/VR 🛠️ Un instrument de scanare a nevoilor de formare, care permite crearea de planuri de formare personalizate 📘 Un manual de formare pentru trainerii și formatorii

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### Shoe 5.0 - Partnership for Footwear Industry 5.0 Readiness

Partnership for Footwear Industry 5.0 Readiness

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5

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# SHOE5.0 PILOTARE- FII PRIMUL CARE TESTEAZĂ RESURSELE EDUCAȚIONALE DEZVOLTATE

🕒 08/11/2024

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🏷️ Category: Activitati

💬 Niciun comentariu



Proiectul Shoe5.0 – Parteneriat pentru facilitarea tranziției sectorului Încălțăminte spre Industria 5.0 este în etapa de planificare și desfășurare a sesiunilor de pilotare adresate companiilor/lucrătorilor din industria Încălțăminte, instituțiilor VET și persoanelor interesate să urmeze o carieră în industria Încălțăminte. 🍌🍌

📌 Descoperiți rezultatele existente ale proiectului: 📊 Un studiu cuprinzător asupra Industriei 5.0 în sectorul Încălțăminte 📌 5 profiluri-cheie pentru viitorul companiilor de Încălțăminte 📖 Resurse educaționale pentru viitoarele profiluri-cheie, îmbogățite cu conținut AR/VR 📄 Un instrument de scanare a nevoilor de formare, care permite crearea de planuri de formare personalizate 📖 Un manual de formare pentru trainerii și formatorii

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## SHOE 5.0 - Partnership for footwear industry 5.0 readiness

2022-1-PT01-KA220-VET-000088122

List of participants

### Shoe 5.0 Piloting in Romania

**Developer partner:** TUIASI- Gheorghe Asachi Technical University of Iasi

**Work Package:** WP4 Training Sessions: Pilot Implementation

**Activity:** 4.3: Implement the pilot training sessions

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10	Georgiana	Bojan	<a href="mailto:georgiana.bojan@student.tuiasi.ro">georgiana.bojan@student.tuiasi.ro</a>	Aria Margo, designer	Online

## SHOE 5.0 - Partnership for footwear industry 5.0 readiness

2022-1-PT01-KA220-VET-000088122

List of participants

### Shoe 5.0 Piloting in Romania

**Developer partner:** TUIASI- Gheorghe Asachi Technical University of Iasi

**Work Package:** WP4 Training Sessions: Pilot Implementation

**Activity:** 4.3: Implement the pilot training sessions

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7	Popescu	Gianina	gianinapopescu@yahoo.com	"Ion Holban" Technological School/ Teacher/trainer	Online
8	Achihaitei	Mihaela	mihaelaachihaitei@yahoo.com	"Alexandru cel Bun" High School, Director	Online
9	Florea Jeni	Madalina	condurmada@yahoo.com	LA MODE INTERNATIONALE SRL, Production manager	Online

## SHOE 5.0 - Partnership for footwear industry 5.0 readiness

2022-1-PT01-KA220-VET-000088122

List of participants

### Shoe 5.0 Piloting in Romania

**Developer partner:** TUIASI- Gheorghe Asachi Technical University of Iasi

**Work Package:** WP4 Training Sessions: Pilot Implementation

**Activity:** 4.3: Implement the pilot training sessions

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7	Gălățanu	Raluca-Mihaela	raluca-mihaela.galatanu@student.tuiasi.ro	DIMA-student	<i>Raluca-Mihaela Galatanu</i>
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## SHOE 5.0 - Partnership for footwear industry 5.0 readiness

2022-1-PT01-KA220-VET-000088122

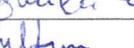
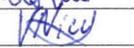
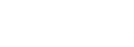
List of participants

### Shoe 5.0 Piloting in Romania

**Developer partner:** TUIASI- Gheorghe Asachi Technical University of Iasi

**Work Package:** WP4 Training Sessions: Pilot Implementation

**Activity:** 4.3: Implement the pilot training sessions

	Name	Surname	Email	Occupation	Signature
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4	Vișan	Ștefan	stefan-catalin.visan@student.tuiasi.ro	DIMA-student	
5	Irimia	Ana-Maria	ana-maria.irimia@student.tuiasi.ro	DIMA-student	
6	Pricop	Lucian	lucian.pricop@student.tuiasi.ro	DIMA-student	
7	Șipoteanu	Iulian-Robert	iulian-robert.sipoteanu@student.tuiasi.ro	DIMA-student	
8	Șmilenco	Valeria	valeria.smilenco@student.tuiasi.ro	DIMA-student	
9	Sultan	Elena-Andreea	elena-andreea.sultan@student.tuiasi.ro	DIMA-student	
10	Vidrașco	Nicolae	nicolae.vidrasco@student.tuiasi.ro	DIMA-student	

## SHOE 5.0 - Partnership for footwear industry 5.0 readiness

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List of participants

### Shoe 5.0 Piloting in Romania

**Developer partner:** TUIASI- Gheorghe Asachi Technical University of Iasi

**Work Package:** WP4 Training Sessions: Pilot Implementation

**Activity:** 4.3: Implement the pilot training sessions

	Name	Surname	Email	Occupation	Signature
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12	Olariu	Denisa Maria	denisa-maria.olariu@student.tuiasi.ro	DIMA-student	
13	Paladi	Laurențiu	laurentiu.paladi@student.tuiasi.ro	DIMA-student	
14	Caraus	Alina	alina.caraus@student.tuiasi.ro	DIMA-student	

## SHOE 5.0 Partnership for footwear industry 5.0 readiness

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### Shoe 5.0 sesiune de pilotare

### Shoe 5.0 Piloting

**Place | Locație:** Online / Facultatea de Design Industrial si Managementul Afacerilor, Tex 2 building, Room 203-204, Iasi, Romania

**Organiser of the Event | Organizator:** TUIASI

### AGENDA

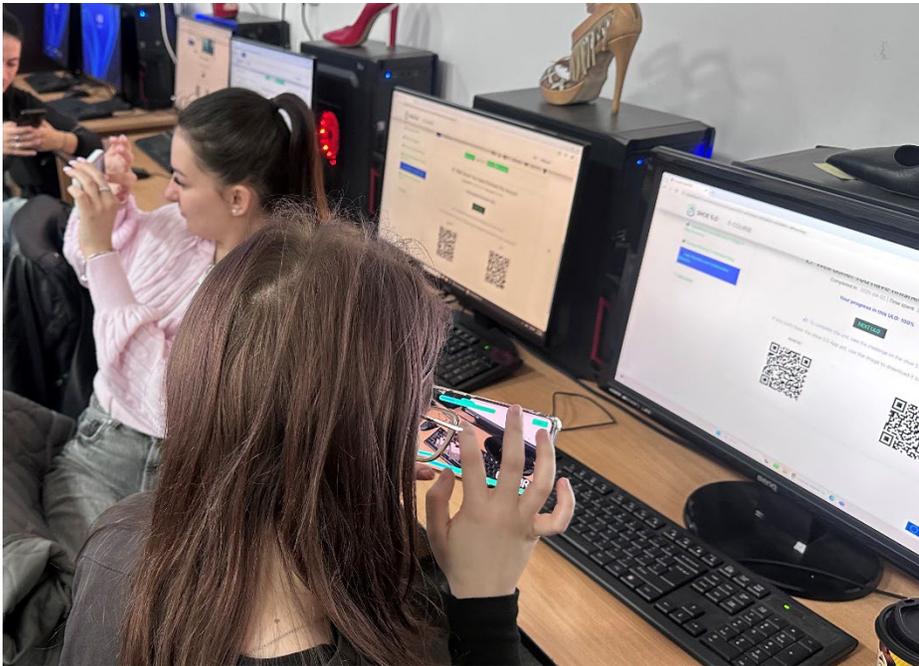
	<b>Group 1</b>	<b>Group 2</b>	<b>Group 3</b>	<b>Group 4</b>	<b>Group 5</b>
	<i>Professionals, workers, entrepreneurs</i>	<i>Students, VET trainees</i>	<i>Students, VET trainees</i>	<i>Students, VET trainees</i>	<i>Trainers, teachers, coaches</i>
	<i>Online</i>	<i>Onsite</i>	<i>Onsite</i>	<i>Onsite</i>	<i>Online</i>
<b>Date</b>	<b>15 March 2025</b> 10:00-13:00	<b>1 April 2025</b> 12:00-14:00	<b>1 April 2025</b> 14:00-16:00	<b>2 April 2025</b> 14:00-16:00	<b>15 April</b> 12:00-14:00
<b>Workshop 1</b>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>	<i>SHOE5.0 Onboarding Workshop: Introduction, Scanning tool and User account creation</i>
<b>Date</b>	<b>22 March 2025</b> 10:00-13:00	<b>5 May 2025</b> 12:00-14:00	<b>5 May 2025</b> 14:00-16:00	<b>14 May</b> 14:00-18:00	
<b>Workshop 2</b>	<i>ULO 5 - Product Traceability &amp; Supply Chain for Industry 5.0</i>	<i>ULO 1 - Management of Human Resources for Industry 5.0 &amp; ULO 9 - Corporate Social Responsibility for Footwear Industry 5.0</i>	<i>ULO 1 - Management of Human Resources for Industry 5.0 &amp; ULO 9 - Corporate Social Responsibility for Footwear Industry 5.0</i>	<i>ULO 6 - AI in Footwear Industry 5.0 &amp; ULO 7 - Manufacturing i5.0</i>	<i>Individual work</i>
<b>Date</b>	<b>29 March 2025</b> 10:00-14:00	<b>20 May 2025</b> 12:00-14:00	<b>20 May 2025</b> 14:00-16:00		

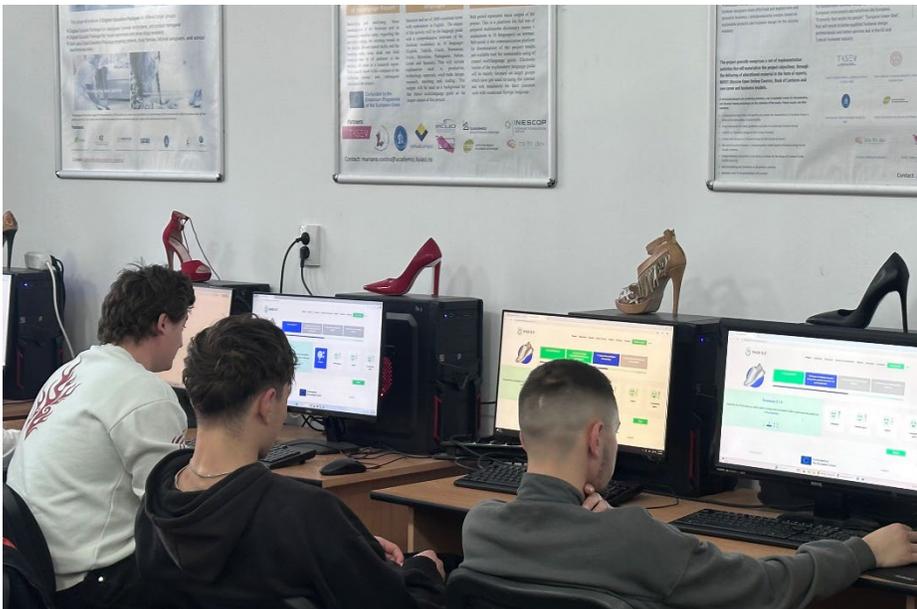
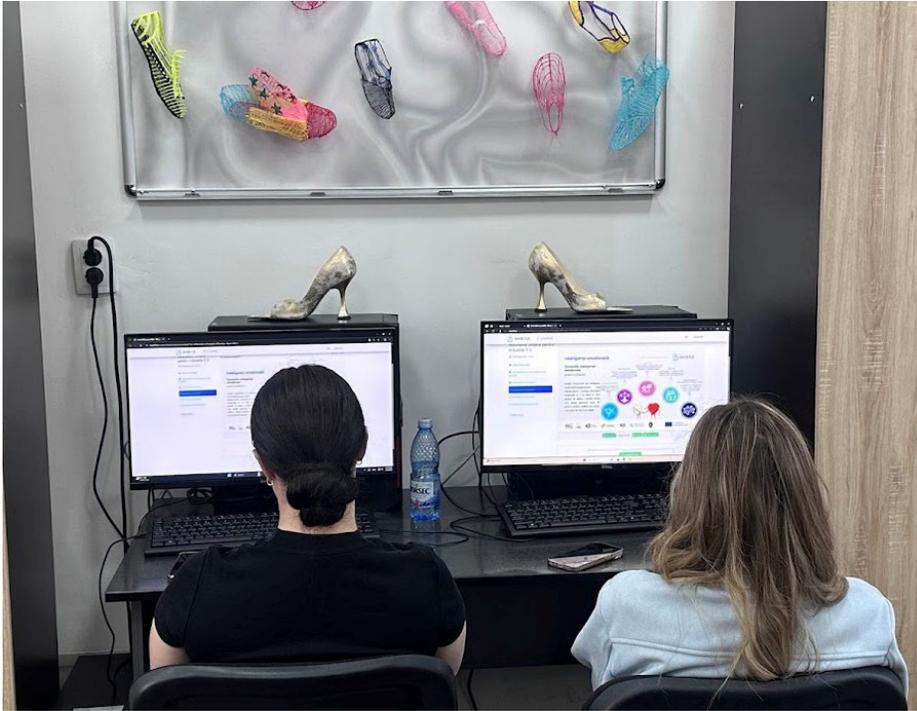
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	<b>Group 1</b>	<b>Group 2</b>	<b>Group 3</b>	<b>Group 4</b>	<b>Group 5</b>
	<b>Professionals, workers, entrepreneurs</b>	<b>Students, VET trainees</b>	<b>Students, VET trainees</b>	<b>Students, VET trainees</b>	<b>Trainers, teachers, coaches</b>
	<i>Online</i>	<i>Onsite</i>	<i>Onsite</i>	<i>Onsite</i>	<i>Online</i>
<b>Workshop 3</b>	<i>ULO 7 - Manufacturing i5.0 &amp; ULO 15 - Ultra and Mass Customisation</i>	<i>ULO 12 - Wellbeing in Industry 5.0 &amp; ULO 14 - Circular Design, Smart Materials, and Innovative Processes</i>	<i>ULO 4 - Networking &amp; Coworking &amp; ULO 7 - Manufacturing i5.0</i>	<i>Individual work</i>	<i>Individual work</i>
<b>Date</b>	<b>5 April 2025</b> <i>10:00-13:00</i>				
<b>Workshop 4</b>	<i>ULO 8 - Co-innovation 5.0</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>
<b>Date</b>	<b>6 April 2025</b> <i>10:00-13:00</i>				
<b>Workshop 5</b>	<i>ULO 11 - Bio-Inspired Materials and Technologies</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>
<b>Date</b>	<b>12 April 2025</b> <i>10:00-13:00</i>				
<b>Workshop 6</b>	<i>ULO 13 – Management of Technological Changes</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>	<i>Individual work</i>

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SHOE 5.0 E-COURSE

## Autentifică-te

E-mail

Parolă

Selectează limba  
 English

[Înregistrează-te](#) [Resetează](#)

Alte limbi parolă?  
 Este prima dată când accesezi platforma? Utilizând instrumentul de scanare pentru a te identifica nevoiți.

15 unități de învățare privind industria 5.0 aplicată sectorului încălțămintei

SHOE 5.0 se concentrează strategic pe dezvoltarea competențelor necesare pentru integrarea optimă a conceptelor industriale 5.0 în sectorul încălțămintei. Urmasii și studenții din învățământul superior și profesional, precum și angajați, manageri și IMM-uri, și vor beneficia de oportunități și competențe esențiale pentru a utiliza noile tehnologii, procese și sisteme. Acest demers vizează optimizarea performanței companiilor, promovarea sustenabilității și creșterea eficienței generale în spiritul 5.0.

Acest curs este disponibil în engleză, portugheză, italiană, română și spaniolă.

Este prima dată când accesezi platforma? Utilizând instrumentul de scanare pentru a te identifica nevoiți.

Contactează [arina.seul@academic.tulsi.ro](mailto:arina.seul@academic.tulsi.ro) pentru mai multe explicații!

meet.google.com Arina Seul (You, present...)

Etapa 6: Exerciții de evaluare a cunostintelor

Click to add notes

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SHOE 5.0 E-COURSE

## Artificialia (AI) în Industria 5.0 de Încălțămintă

Inteligenta Artificială (IA) în Designul și Prototiparea Încălțămintei

Există mai multe instrumente pentru personalizarea produsului.

Scanare 3D	Machine Learning	Componente personalizate
<ul style="list-style-type: none"> <li>Tehnologiile de scanare pot captura sisteme exacte și măsurătorile picioarelor.</li> <li>Acestea pot furniza măsurători extrem de precise în ceea ce privește forma, mărimea și arca piciorului.</li> </ul>	<ul style="list-style-type: none"> <li>Tehnologia de învățare automată (machine learning) poate procesa datele colectate cu ajutorul scanării 3D.</li> <li>Acești poate crea un design perfect și optim, precum și demonstrații fizice ale produsului.</li> </ul>	<ul style="list-style-type: none"> <li>Adesea, tălpile interioare și formele pot fi create cu ajutorul imprimatoarelor 3D pe baza datelor colectate și elaborate anterior.</li> <li>Acest tip de produs poate oferi nivelul maxim de confort și performanță.</li> </ul>

meet.google.com Arina Seul (Presenting...)

Proiect Obiective Rezultate Nouă și Evenimente Galerie Parteneri Contacte **Scanning Tool**

2. Managementul resurselor umane pentru industria 5.0

3. Programarea cu opțiuni Recursivă de Cod

4. Big Data în Industria 5.0 de Încălțămintă

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ru a îmbunătăți controlul timpilor de staționare.

I disagree I almost agree I agree I completely agree

Înainte

Stop presenting

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## SHOE 5.0 Asociación para la preparación de la industria del calzado 5.0

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### WP4: Sesiones de formación: Implementación piloto

#### 4.3: Implementar las sesiones de formación piloto (España)

17/07/2025 sesión en línea

CTCR (Centro Tecnológico del Calzado de La Rioja)

### AGENDA

09:00 – 11:00	Sesión IA aplicada al sector calzado
11:00 – 11:15	Descanso
11:15 - 11:30	Presentación del proyecto SHOE 5.0 y sus objetivos
11:30- 11:45	Introducción a la herramienta de escaneo y registro
11:45 –12:15	Demostración de la plataforma de aprendizaje electrónico SHOE 5.0 y los ULOs
12:15 – 12:35	Demostración de la aplicación de RA SHOE 5.0 y los retos
12:35– 12:45	Conclusión y comentarios

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## SHOE 5.0 Partnership for footwear industry 5.0 readiness

2022-1-PT01-KA220-VET-000088122

### Registered participants

#### 4.3: Implement the pilot training sessions (Spain)

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4	Caio	I5.0 Footwear Architect	cmedeiros@ctcr.es
5	Javier	Trainer	jcortes@ctcr.es
6	María Del Carmen	Footwear Technical Manager	cmartinez.ctcr@gmail.com
7	Asier	I5.0 Footwear Architect	arodriguez@ctcr.es
8	Ana	Footwear Designer/ Patter Maker	afuertes@ctcr.es
9	Belen González Chiappe	Trainee (incomplete professional profile)	belengce@gmail.com
10	David Alberca	Trainee (incomplete professional profile)	david.alberca@cofan.es
11	Carmen María Lumbreras	Trainee (incomplete professional profile)	info@barefootislascanarias.com
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