

FUNDING PROGRAMME: Erasmus+ programme of the European Union

Partnerships for Digital Education Readiness

PROJECT TITLE: Textile digitalization based on digital education and innovative e-Tools

DigiTEX

Agreement no. 2020-1-RO01-KA226-HE-095335

PROJECT STARTING DATE: 01.03.2021 → PROJECT ENDING DATE: 28.02.2023

PROJECT PARTNERS:

INCDTP-The National Research & Development Institute for Textiles and Leather - **COORDINATOR** (RO)

AEI TÈXTILS (ES)

CRE.THI.DEV. (GR)

UNIWA - University of West Attica (GR)

CIAPE - Centro italiano per l'Apprendimento Permanente (IT)

KTU - Kaunas University of Technology (LT)

TUIASI - "Gheorghe Asachi" Technical University of Iasi (RO)

PROJECT SCOPE: DigiTEX project aims to support innovative approaches and digital learning technologies to accelerate innovation, teaching and learning in the field of medical, protective, sensorial and smart 3D textiles design, testing and manufacturing of the innovative advanced products for healthcare (protective equipment, wearable monitoring devices) in the context of the digital economy.

MAIN OBJECTIVES:

- to co-design wearable prototypes based on needs, new technologies and perspectives in developing 3D smart sensors based textiles for traditional textiles, fashion, medicine, sport/leisure and technical protective equipment based 3D rapid prototyping with 3D printing;
- to accelerate the innovation in medical, protective, sensorial and smart 3D textiles for medical devices, protective equipment, sensors and wearable devices in the context of the European economy and digitalization;
- to learn and teach about 3D prototyping with 3D printing, comfort for medical, protective, sensorial and smart textile for sensors and actuators;
- to develop adequate virtual tools (database, book of best practices, e-books, creative blended learning and e-learning platform for smart intersectoral learning and wearable prototypes development).

DigiTEX Erasmus+ has the purpose to accelerate innovation on the smart textile design using 3D rapid prototyping and printing, comfort testing and manufacturing by co-design and co-development using creative methods, e-Learning tools in the context of the circular economy.

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TECHNOLOGY BUSINESS INCUBATOR < ITA TEXCONF >

ITA TEXCONF is an entity belonging to the TT infrastructure, founded on the basis of HG 406/2003 and accredited with the certificate number 118/2020, for the textile-clothing domain, of which activity is mainly directed towards:

- facilitating the initiating and developing of new innovation private enterprises based on advanced technology;
- stimulating the innovation and technology transfer for the purpose of introducing into the economic circuit the research results that are transformed into new or improved products, processes and services.



Main objectives:

- Incubating of textile-clothing SMEs, ensuring of logistics services;
- Creating of partnerships, developing of interest groups having in view the innovation product/technology transfer towards the industry, specially towards SMEs;
- Know-how transfer between INCDTP and SMEs.

Services:

- Services of sustaining textile-clothing SME competitiveness within the competitive background of the market economy;
- Services aiming at creating partnerships and financing drawing in within the projects
- Services aiming at product, equipment, innovation technology promoting in the field of textile-clothing, as part of scientific events (fairs, symposiums, conferences etc.);
- Mediating of contracts of technology transfer/manufacturing of products, experimental models, prototypes, invasive and non-invasive medical devices, textile articles meant for consumables, special destination articles etc.
- Mediating of contracts in the field of investigating the textile material and product properties, within the RENAR accredited INCDTP laboratories.

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