

R2 RESULTS

LIBRARY OF KNOWLEDGE FOR VIRTUAL FASHION DESIGN AND TECHNOLOGY

A representative library of knowledge containing 49 fabrics for the selected garments has been created in the project framework. The knowledge library, which includes clothing-related databases, is a support system for the online training platform for virtual fashion design and technology that has been developed. The library contains the selected garments, their styles, and patterns, and different types of textile fabrics with diverse compositions, constructions, and finishes.

The exploratory work led to the development of the following databases:

Garment database - based on the project-selected garments.

Fabric database (physical fabrics) with their properties that determine their visual appearance, feel, drapability, and some other important parameters required for digitization of the fabrics.

Fashion database (styles), various types of styles for the selected garments.

3D Garment database, based on the simulation of the selected digital fabrics that present the selected physical fabrics.

3D human database (selection). Based on Smartfit, a human database generated from a national measurement survey in Belgium

Project duration:
01st February 2022
31st January 2025

What's next?

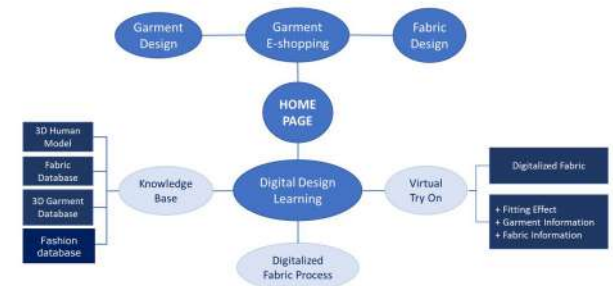
- Development of the training programme of fashion design and technology based on the developed training platform.
- 50 teachers and 150 students will test the DIGITAL FASHION Technology Platform.
- A short-term joint design staff training with the aim of creating the appropriate conditions to build the competences and skills needed to transfer in a self-sustaining way the training/learning approaches, methods, and tools.
- 1 international public seminar in Romania and 5 national public seminars (BE, FR, PT, RO, SI) to boost project results.

R3 RESULTS

TRAINING PLATFORM OF FASHION DESIGN BY PERSONALIZED 3D VIRTUAL GARMENT FITTING

This platform allows fashion designers to quickly learn digital fashion design techniques from associated design resources integrated into a relatively complete digital environment (databases, design knowledge bases, interfaces).

The home page is designed to encompass four main functions: garment design, fabric design, digital design learning, and garment e-shopping.



At the current stage, the professional design knowledge base includes information about four databases: 3D human model database, fabric database, 3D garments database, and fashion database. A real fabric can be digitalized by using the digitalized fabric process, which relies on an existing digital fabric database implemented in the software of Modaris 3D Fit.