

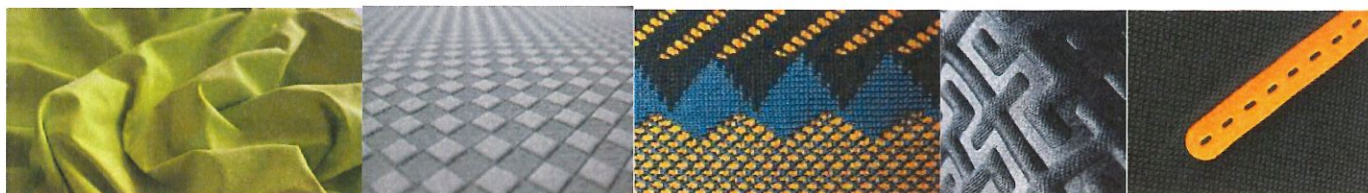


EVROPSKÁ UNIE

Evropský fond pro regionální rozvoj  
Operační program Podnikání  
a inovace pro konkurenceschopnost

## Business plan: “Research and development of new textiles, products made of sustainable resources and high-tech textiles”

Registration number: CZ.01.1.02/0.0/0.0/19\_262/0020192



This R&D project focuses on the following final output fields:

- I. New textile types from sustainable resources, application of natural materials, bio materials, recycled and recyclable materials;
- II. Special textiles:
  - o New textile materials replacing toxic PVC and natural leather,
  - o Textiles for transport vehicles for shared mobility and electro-mobility;
- III. New design and functional elements, direct heating, sensors and illumination integrated in textiles to reduce vehicle weight, effective energy consumption and other SMART generation functions (Stage II);
- IV. New production technologies for such new textile types. New or innovated processes in textile production enabling use of waste from production, or their complete elimination. Processes with lower energy demands, lower consumption of water and sources. Integration of circular economy principles and Industry 4.0.

Textiles with substantially improved functional characteristic will be the output of this project. Except for basic required properties (strength, wear, light-fastness), they will bring **new functions, increased comfort, possibility to use sustainable materials with low environmental impact, thereby other value added for end users.**