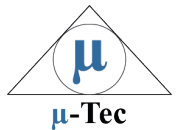


DekubiSock – Development of a stocking with peristaltic effect to prevent decubitus

Problem / Motivation

- Increasing prevalence of circulatory disorders and the resulting increased risk of decubitus
- The elderly and people with reduced mobility are particularly affected
- Conventional compression stockings lack integrated treatment functions, while commercially available air pressure-based systems are often bulky, difficult to integrate into daily life, and lack sensor technology
- Objective is the development of a stocking with peristaltic effect for better circulation and prevention of decubitus



Solution

- Integration of microhydraulic, sensors and control technology in textile stocking
- Creation of an individualised, automated and non-invasive therapy
- Efficient monitoring and adaptation of therapy as well as relief of the health system by means of a telemedicine component

Project Partner

Leibniz-Institut für Plasmaforschung und Technologie e.V., (INP)
Kompetenzzentrum Diabetes Karlsburg

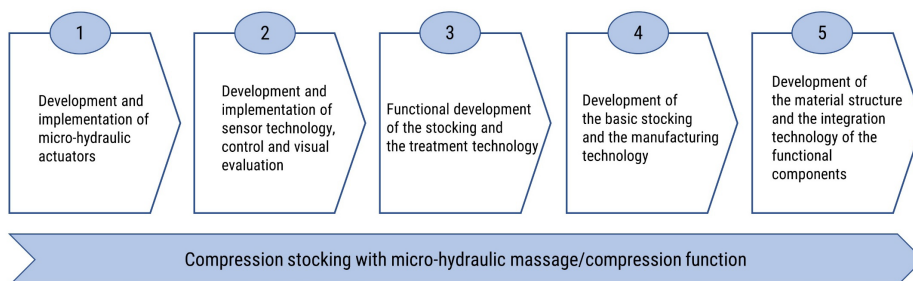
Strumpfwerk Lindner GmbH

μ-Tec GmbH

ASK GmbH

Project Launch

11/2024



Chronology of the working hypotheses in the DekubiSock project



Supported by:



on the basis of a decision by the German Bundestag

Acknowledgement

We would like to thank the Federal Ministry for Economic Affairs and Climate Action for funding the research project DekubiSock (Reg. No. 16KN115133) within the funding programme "Zentrales Innovationsprogramm Mittelstand (ZIM)".