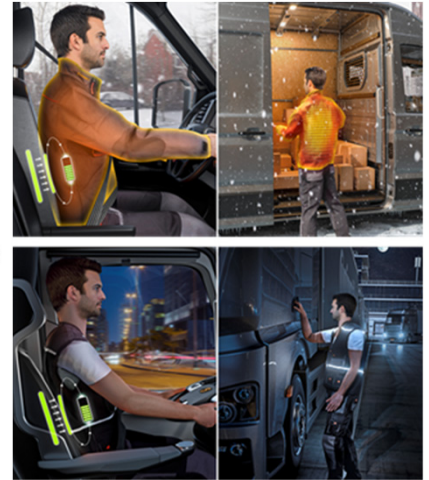




Hamburg (visitable at short notice)

# SMART PROTECTIVE CLOTHING

Application for logistics and manufacturing industry -  
Orchestration of smart protective products



## SUMMARY

Digitization enables new services with personalized features that can be added if necessary and billed according to use. The smart components needed for this require special attention in production, retail, logistics and service/waste disposal.

## CURRENT SITUATION

In SMEs, production-relevant resources such as health and safety equipment are often tested and obligatory products. Smart textile products introduce new properties that completely change the existing way of doing things, from production to retail, use and disposal, with the associated technical service. But there are none of the old signposts, such as advice from retailers, who currently have no idea what is necessary in order to market and manage digital innovations in their products.

## PROJECT DESCRIPTION

This project supports brands and producers wishing to equip existing or new products with sensors, signal generators and telemetric functions, in the context of establishing standards. Smart clothing is the future: sensors and telemetry solutions embedded in textiles take readings from the wearer and the environment. The materials used for undergarments and outer clothing, in particular, must meet strict standards: easy to wash, comfortable, reliable acquisition of measured values and signal transmission to the cloud solution for data collection, analysis and distribution. This opens up potential work and leisure applications.

## INDUSTRY 4.0 FEATURES

More efficient health protection with digital assistance systems for protective clothing

## PARTNERS



## SOLUTION

The solution developed in the project has the following benefits:

- Rapid introduction of digital innovations in health and safety
- Indoor and outdoor system with optimum range
- Use possible under difficult ambient conditions
- Individually configurable system
- Designed to meet the needs of users
- Cost savings in comparison to current solutions
- Requirements concerning undergarments and outer clothing are observed and met

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## STANDARDIZATION APPROACHES

The aim is to jointly define standards that allow commercial and service partners, and manufacturers of health and safety related products, to be integrated in a digital value chain.