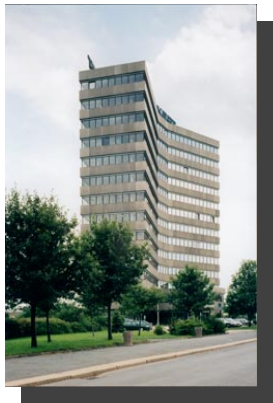


Patient monitoring system
based on
textile sensor technology

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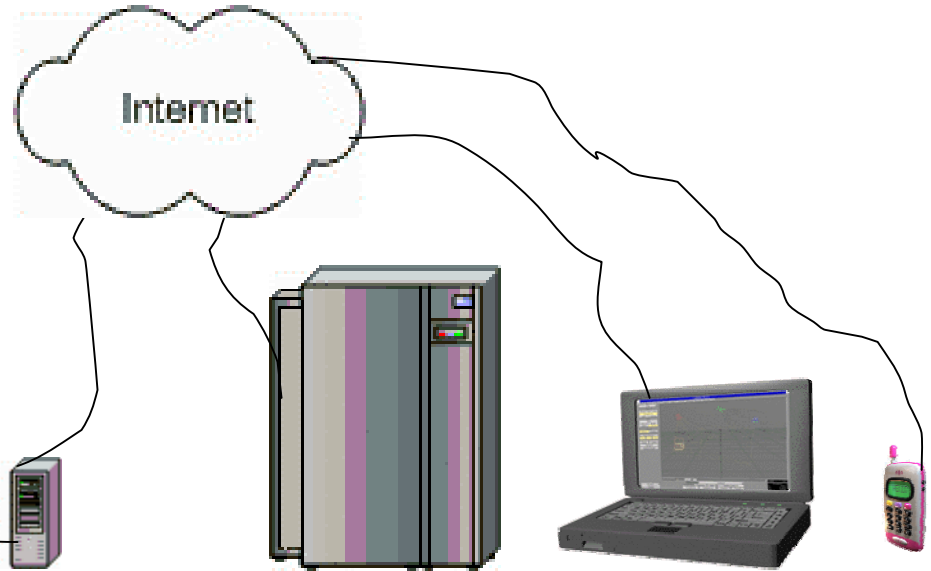
- *The goal of the company is the development, manufacture and sale of textile products with innovative additional uses – smart textiles*
- *At present the focus is on the development of products with luminescent and electrically conductive textile components, in particular with warming/cooling and health-related properties as well as sensor textiles*
- *ITP GmbH is endeavouring to develop all solutions as textile- oriented as possible, within the present state of the technology, and focused on the market*

Complete system



Sensor bed with textile sensors
and mini control computer can detect :

- decubitus / kinesthetic behaviour
- incontinence / sweating
- open blanket / hypothermia



Server with data bank, output per computer or mobile

All components are connected via internet

Project partners

- Fraunhofer Gesellschaft e.V. SCAI
- Telematik-Center TMD GmbH
- Supported by BMWF /AiF



Tele multiDOCTOR®

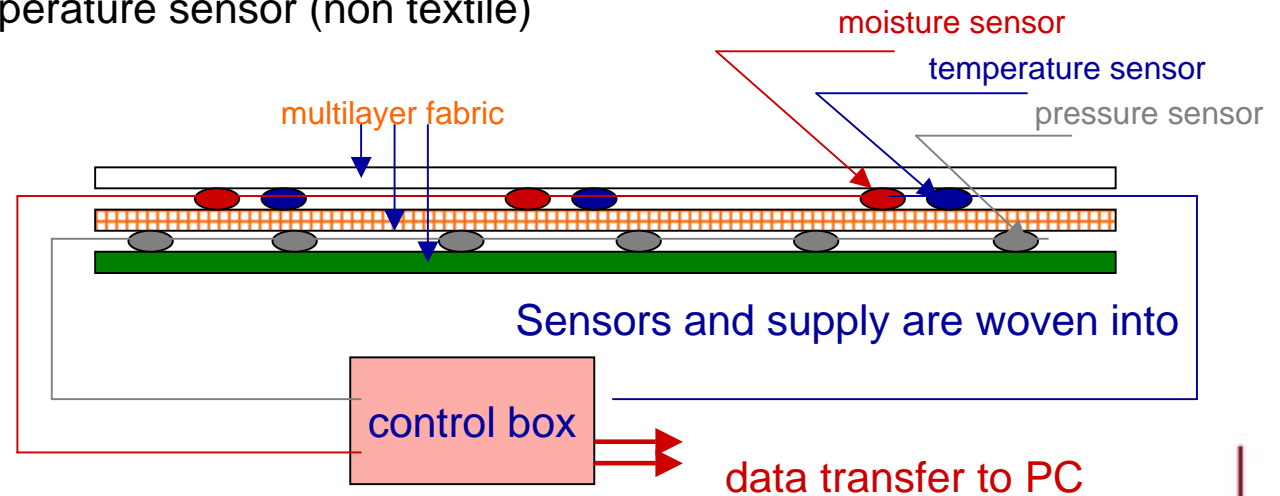
Bed cover

- modular design
- automatic collection of measuring data
 - pressure distribution,
 - temperature,
 - moisture
- uses textile sensors integrated into a blanket and a bed cover



Sensual Components

- pressure sensor
- moisture sensor
- temperature sensor (non textile)

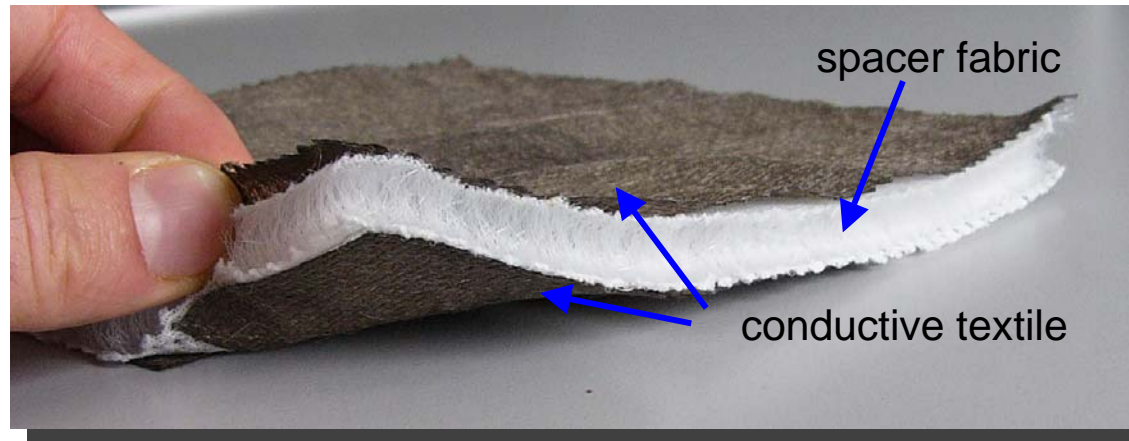


Textile pressure sensor

- measuring of pressure and pressure distribution
- capacitive sensor
- arrangement of 12 pressure sensors:
 - detection of positions and movements possible
 - also possible to detect the keeping of determined positions



Textile pressure sensor (detail)



Textile moisture sensor

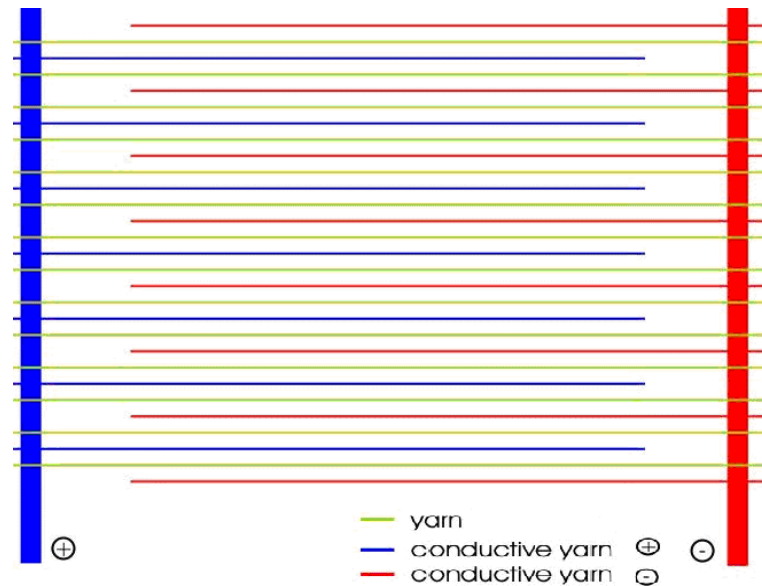
developed in corporation with *TITV e.V. (Greiz)*

- detects moisture in the cover p.e. any sweating of the patient
- resistive signal, proportional to the actual moisture
- incontinence sensor, a digital used moisture sensor



Textile moisture sensor (detail)

- sensor based on an interdigital weave (double comb structure)
- positive and negative pole get in contact by water in between



Applikations / possible Markets

- ambulant operation aftercare
- support for mobile healthcare
- patient's monitoring in
psychiatric or geriatric clinic

Requirements concerning the transfer business:

- We are looking for:

Business Partners

Thank you for listening
and your interest !

ITP GmbH

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