

electronics closer to life

contact: sendance GmbH Dr. Robert Koeppe Altenberger Str. 69 A-4040 Linz / Austria info@sendance.at



Founders



bert Koeppe

Dr. Robert Koeppe Managing Director



Dr. Daniela Wirthl Head of Projects & Marketing



Virthl DI Thomas Stockinger Head of rketing Technology & Operations



er Dr. Yana Vereshchaga Head of Development & Quality

Advisory Board



DI. Matthias Schmied MedTech Consulting, former GE Healthcare



Prof. Hubert Egger Professor for Prosthetics, former Ottobock



Prof. Martin Kaltenbrunner Full Professor JKU LIT Soft Materials Lab





sendance

- + LIT Soft Materials Lab Spin-off
- + project started end of 2019
- + 11/2020: Edison 2020 in Gold
- + 03/2021: tech2b-ScaleUp and GmbH founded
- + First successful development projects
- + Funded by AWS PreSeed and FFG Basisprogramm



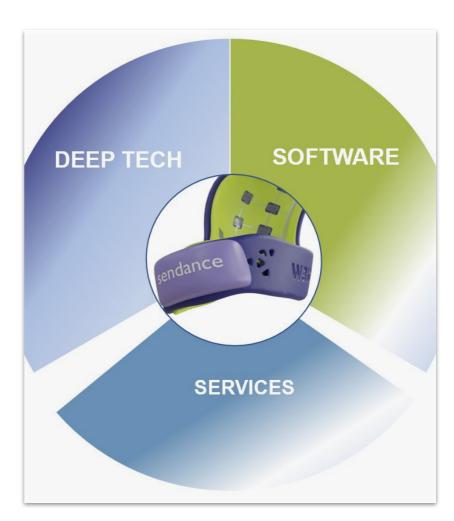


sendance-grid

- + soft, conformable and permeable sensor grids
 - \rightarrow seamless integration in surfaces of objects
- + low-cost digital manufacturing solution

sendance-cloud

- + solution for data management and visualization
- + digital base for future services





sendance-grid as technology platform

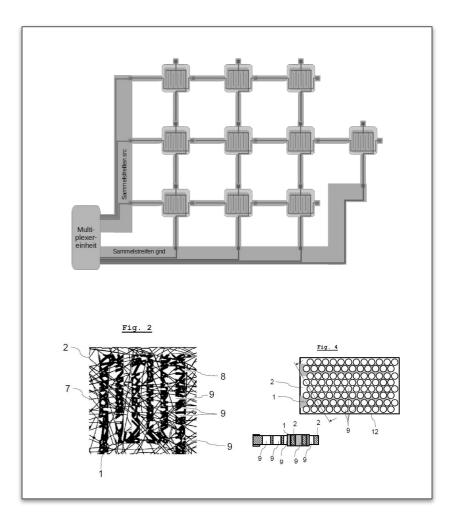
- + brings sensors close to the skin
- + adaptable, soft, conformable, permeable
- + measures pressure, temperature, touch, pH...
- + opens up numerous applications





Patents

- + patent on *sendance-grids*
 - \rightarrow covers sensor grid on free-formed body
 - \rightarrow filed 06/2021
- + patent on permeable electronics
 - \rightarrow covers electronics on permeable substrates
 - \rightarrow license agreement with JKU Linz





Custom orthotic devices

- + still usually hand-crafted
- + transformation to digital manufacturing under way

 \rightarrow 3d-Scan and 3d-Print

- + increased centralization and standardization
- + verification of safety and functionality critical

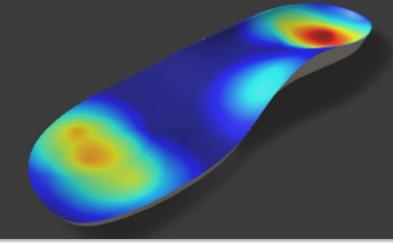




Permanent monitoring of fit

- + improves the fitting process of the orthotic device
 - \rightarrow increased productivity of orthotic technician
 - \rightarrow improves communication and adherence
- + avoids pressure marks and verifies functionality
 - \rightarrow reduces costs for reworking
 - \rightarrow necessary as verification of safety and functionality

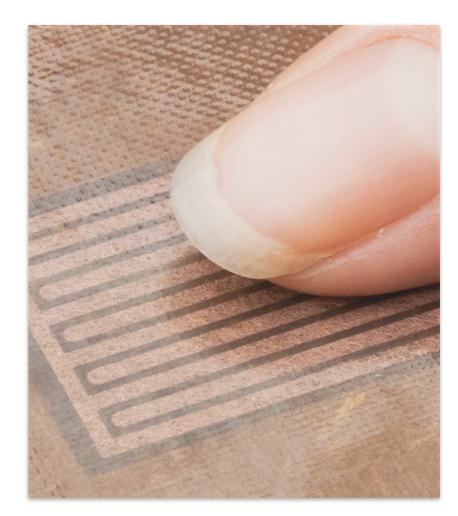






Sensors in varnish layer

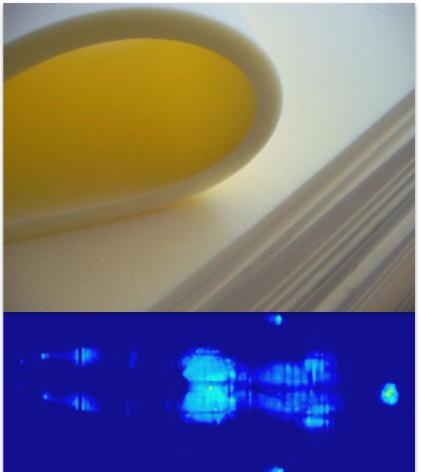
- + permeable touch sensors and leads
 - \rightarrow interactive furniture
 - \rightarrow perfect to clean/disinfect
- + easy integration in manufacturing process
 - \rightarrow no drilling, cutting or milling
 - \rightarrow connectors at hidden positions





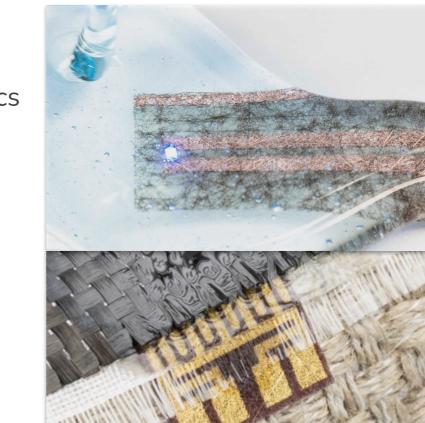
Sensors in polymer foam/rubber

- + soft and conformable force sensors and leads
 - \rightarrow decubitus prophylaxis in mattresses, wheelchairs...
 - \rightarrow posture analysis
 - \rightarrow humidity sensors for incontinence monitoring





- + permeable substrates for electronics
 - \rightarrow seamless integration in casting/moulding
 - \rightarrow seamless integration in fibre composites
- + easy integration of electronics
 - \rightarrow sensors, LEDs, leads...
 - \rightarrow in surface or volume







disposable sensors in absorbent materials

- + absorbent layer in diapers
 - \rightarrow detect urine
 - \rightarrow analyze pH to detect urinary tract infection
- + wound dressings
 - \rightarrow measure temperature, humidity, pH
 - \rightarrow support for home care





The vision of **sendance**

- + integrate sensors close to the human body
- + increase life quality of elder people
- + decubitus, chronic wounds, implants
- + "soft" electronics in service of better health
- + co-existence nature human technology

ECO friendly tech Business+	
Remote Assisting	
Deep Tech	