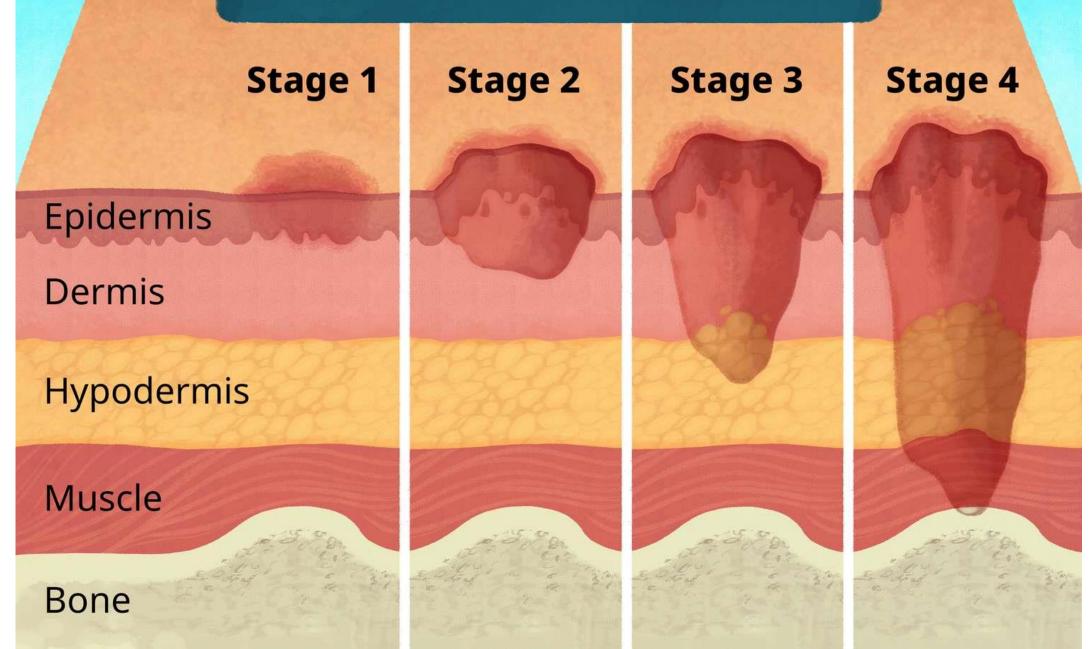


Stages of a Pressure Ulcer





B.C. woman dies of infection her family said was caused by bedsores; lawsuit filed

Family alleges negligence by staff caused her eventual death from sepsis they say was caused by an infection of a large hole on her tailbone

Susan Lazaruk

Published May 22, 2024 • 4 minute read

Georgina Dodds died at age 62 in 2022 after developing blood poisoning from what her family says was untreated bed sores when she was living in a long-term care home in New Westminster. sun

A woman whose mother died after living in a B.C. seniors care home where her untreated bed sores became infected says watching her die a painful death was "traumatic" and not something a family should have to witness.

VitalWear

atient

60,000 deaths per year in the US are due to pressure ulcer complications

New England Journal of Medicine

Over **17,000 lawsuits** related to pressure injuries are filed yearly. It is **the 2nd most common** claim after wrongful death.



17k

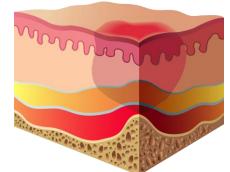
A single lawsuit has an average cost of \$250,000.

Annual Cost: US: ~ **\$ 26.8b** UK: ~ **£ 2b** NL: ~ **€ 1b**



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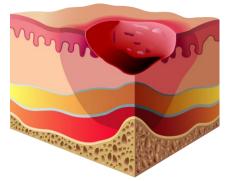
STAGE 1







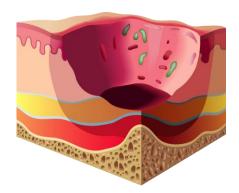
STAGE 2

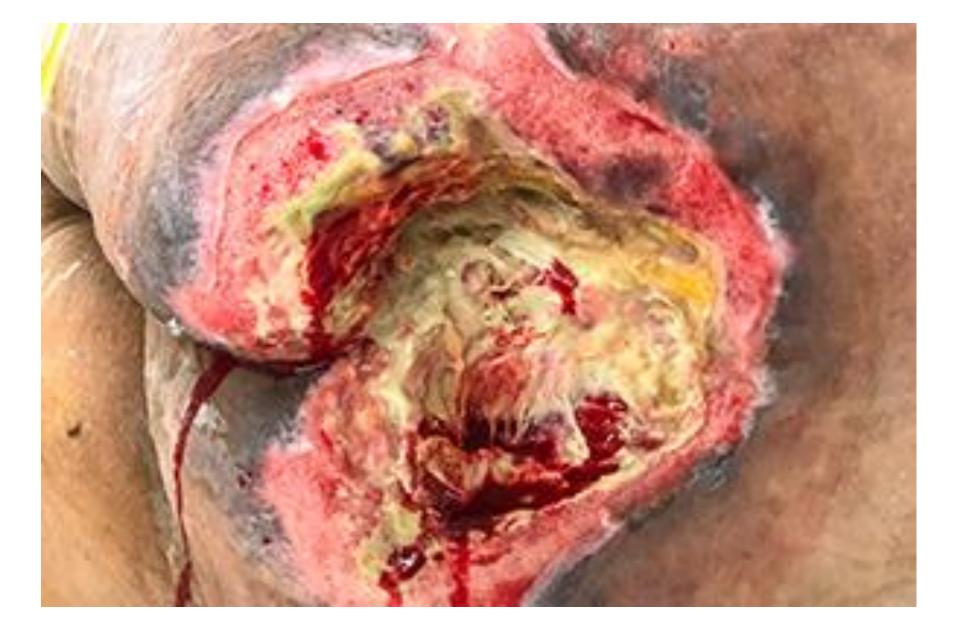




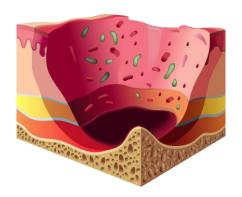


STAGE 3

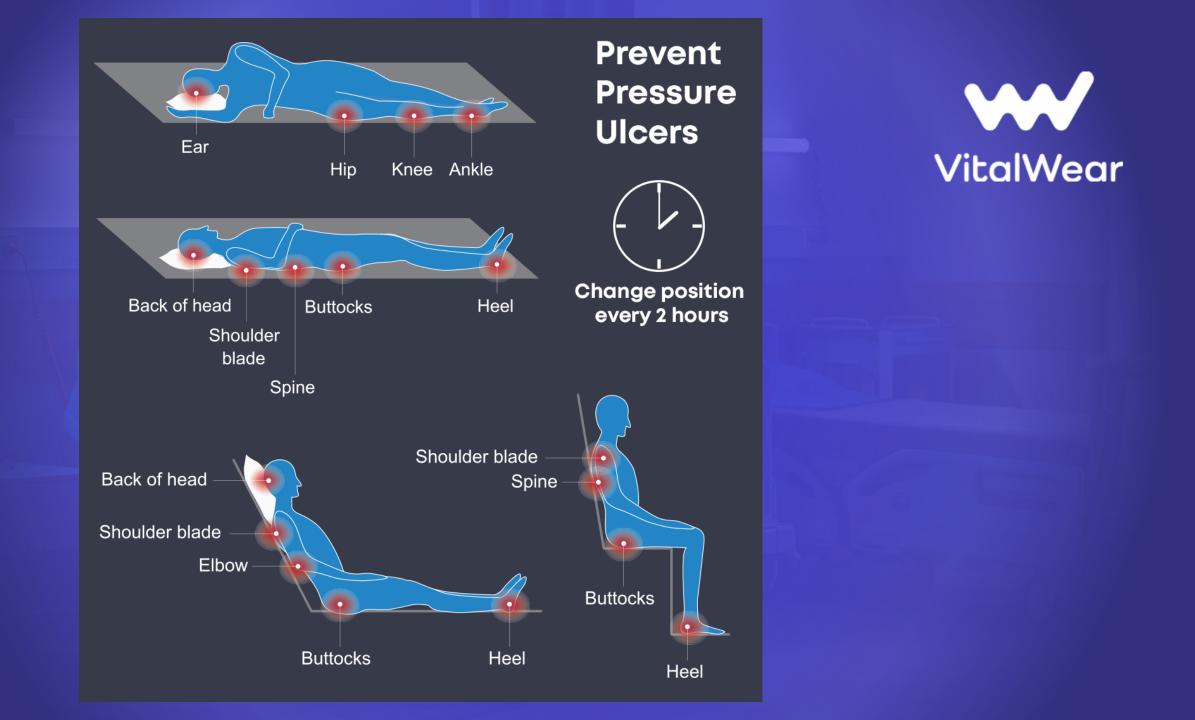














Shortage of Healthcare Workers

"Based on this forecast, the labour market shortage for health and wellbeing will increase from 49.400 people in 2023 to 231.700 people in 2033."



Source: https://prognosemodelzw.databank.nl/dashboard/storiesdashboard/1--zorg-en-welzijn--breed-

Monitoring must be Autonomous







VitalWear



Pressure Monitoring is not sufficient

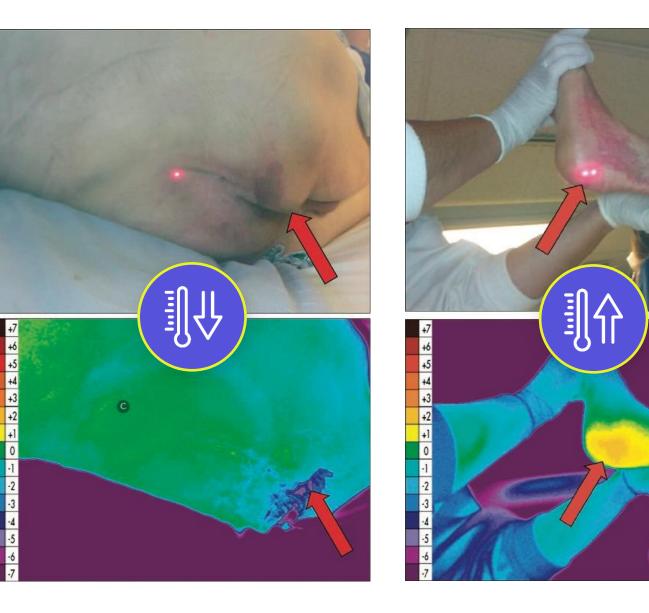








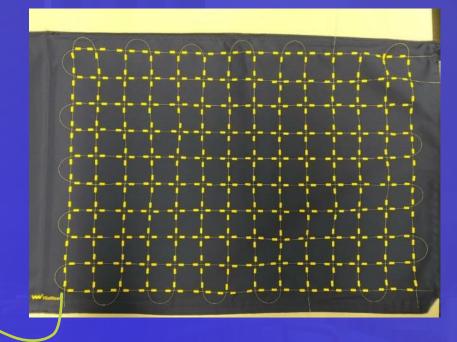
Temperature Monitoring enables Detection



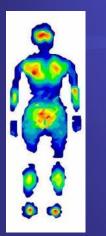
Source: https://www.ncbi.nlm.nih.gov/p mc/articles/PMC6716560/



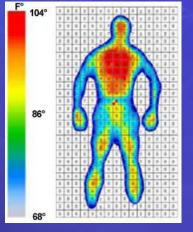








Measurement of Pressure



Measurement of Temperature

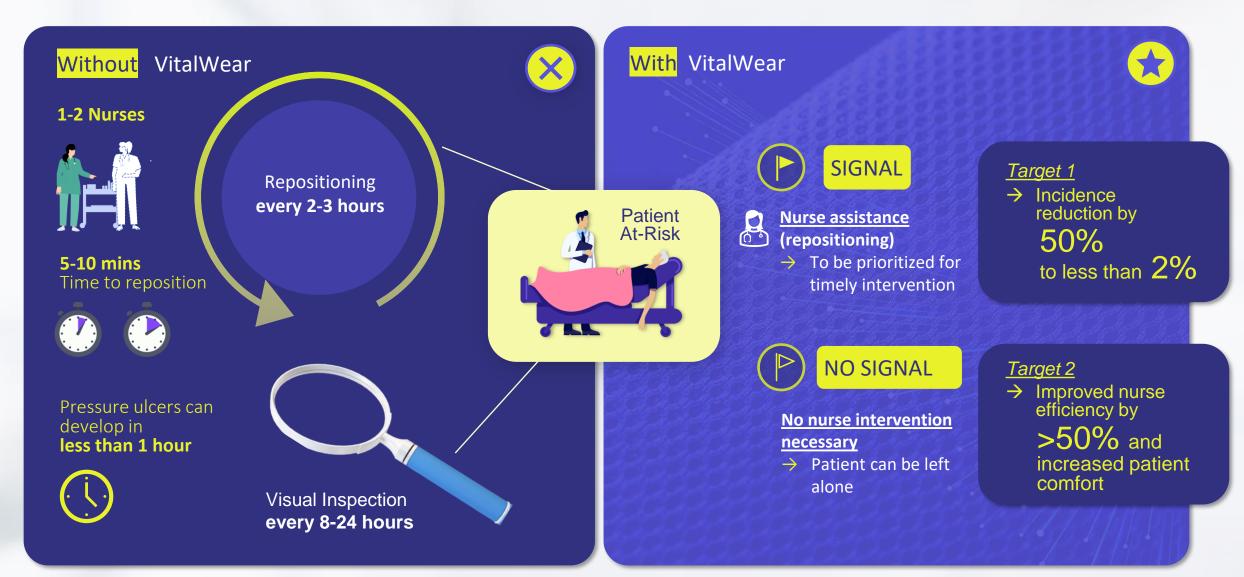


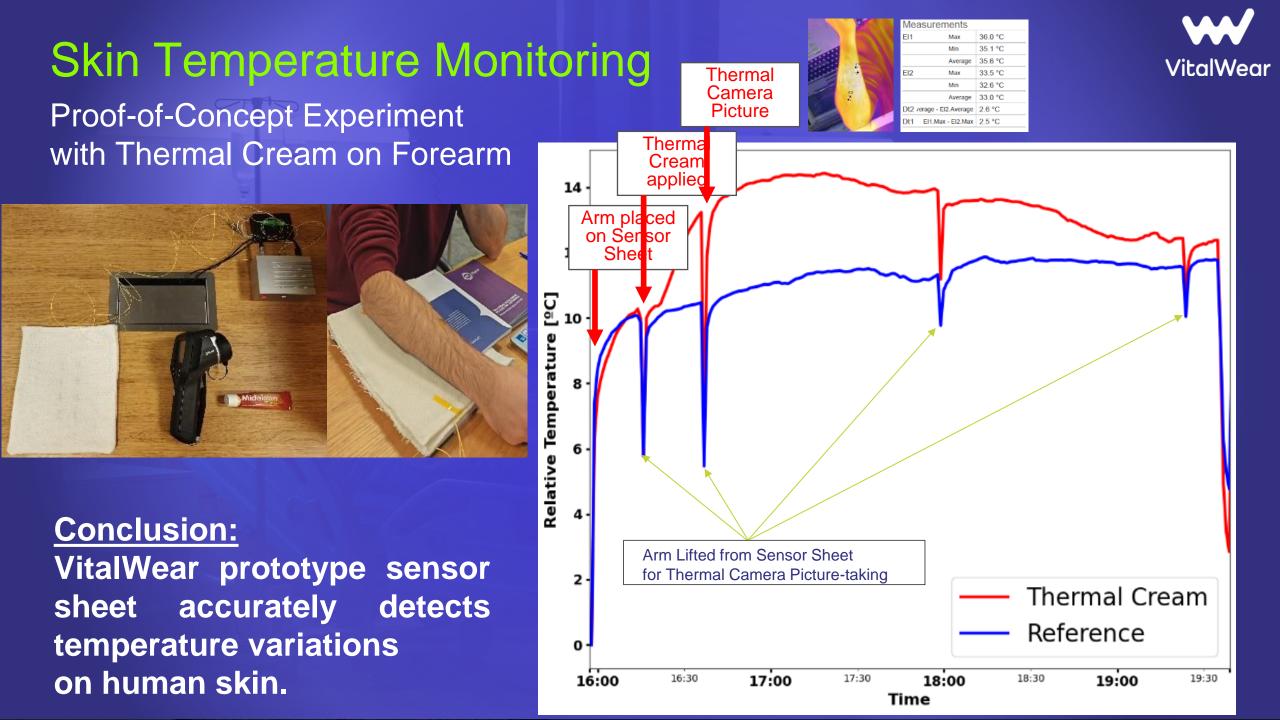




Event-based Guided Caregiver Intervention

Clinical Use Case







Intellectual Property

IP Landscaping & IP Strategy

Core Device technologies		Tech	nical buildii	ng blocks	
Consequence Consequen	C	ore Device technologie	\$		
Consequence The second s		iها			
Anza post na	Sensing based on FBG		Body-Device interface	Data/Algorithm	
- Show provide the set of th	+multippint sensingin single	•Fabrication ★	+Hygiono ★	+Data quaity	+Vieuxization
Photon First	 Decoupling of signal pressure, temperature, ; 	fievāsāty, rotustness, 🌟 broathobility, modularity,	 Prosecute, to importation, humidity 	Sensor fusion Predictive model	·Case of use/installation
White space Crowded space	~ ~ ~	intercontrection	•Oensingreiksbiller	+Hontoning	
				★ White space	Crowded space

Idea Generation & Invention Disclosures

Patent Drafting and First Filing





Team covers Technology, Innovation, **Clinical Studies and Regulatory Compliance**



Eric Thelen CEO

PHILIP















Jettie Hoonhout **Medical Strategy Officer**



Jonathan Palero Senior R&D Engineer



Yannyk Bourguin **Senior R&D Engineer**



Kostas Voutyras СТО









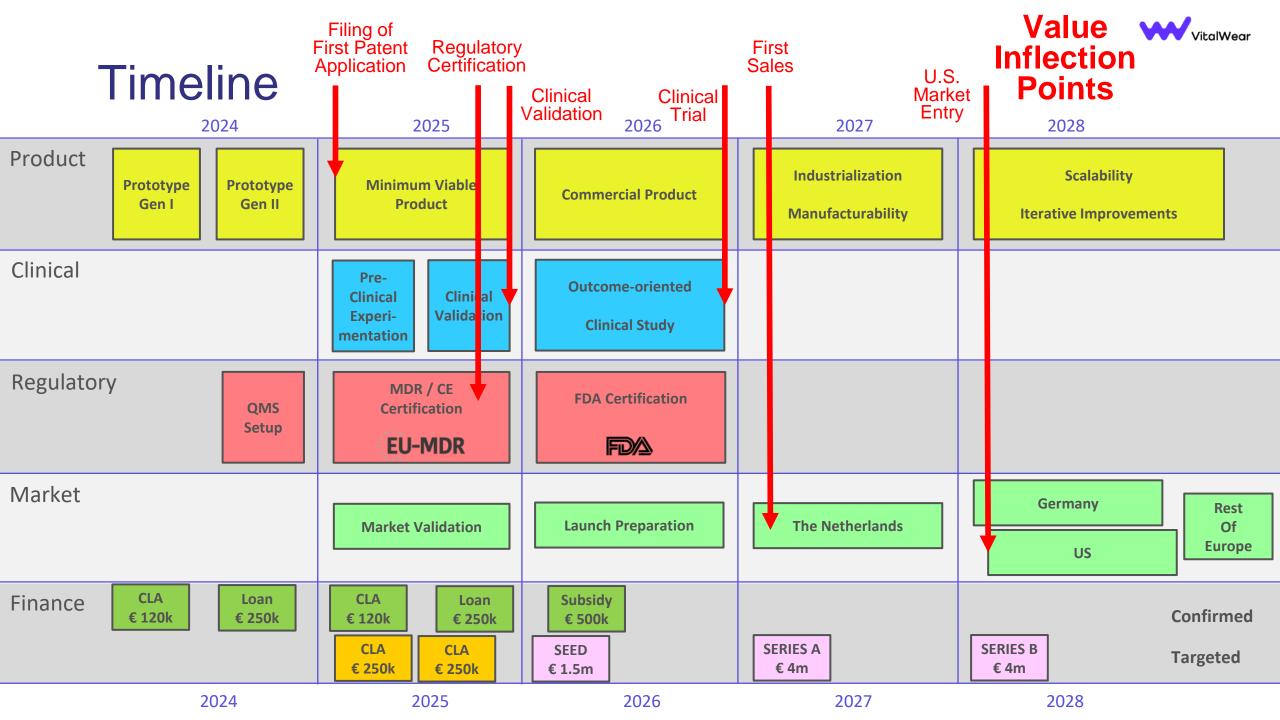
TU/e

Arlette Beekman Intern - Computational Modelling

Strong Network of Collaborators

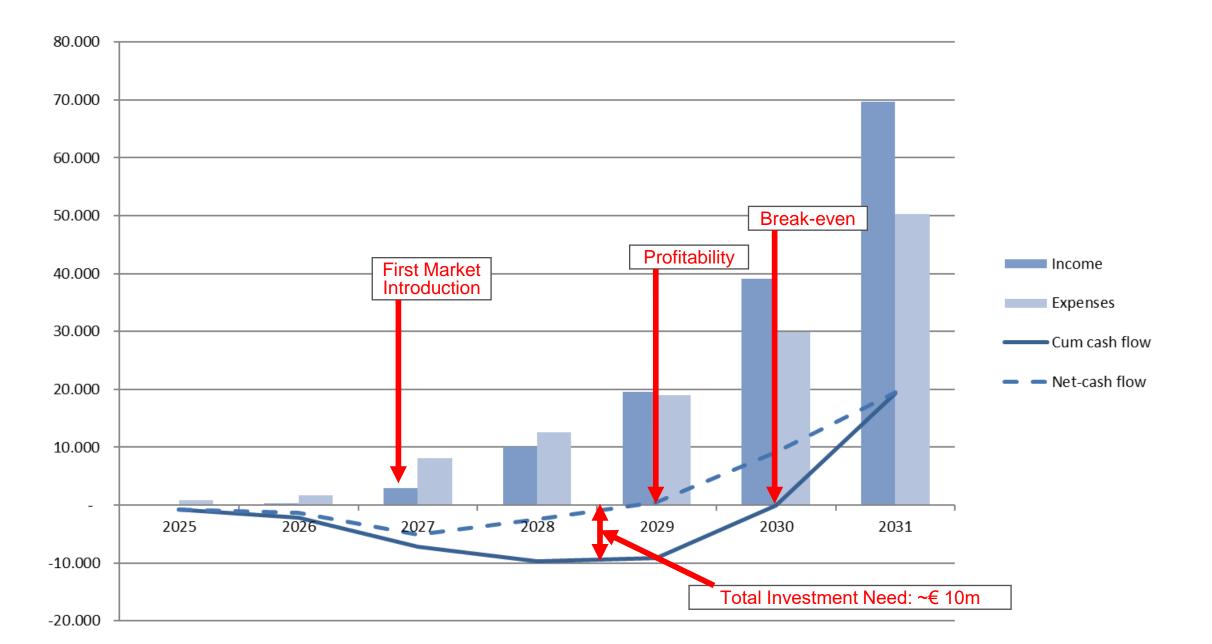


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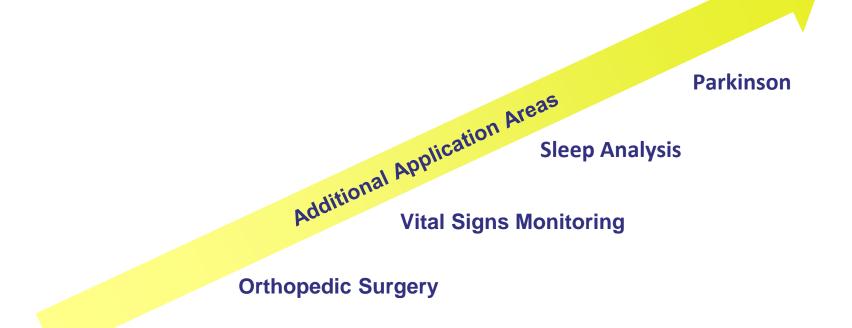
VitalWear

Financial Projections (x 1,000 euros)





Growth Opportunities



Pressure Ulcers

Additional Market Segments



Hospitals



Nursing Homes



Wheelchair Users



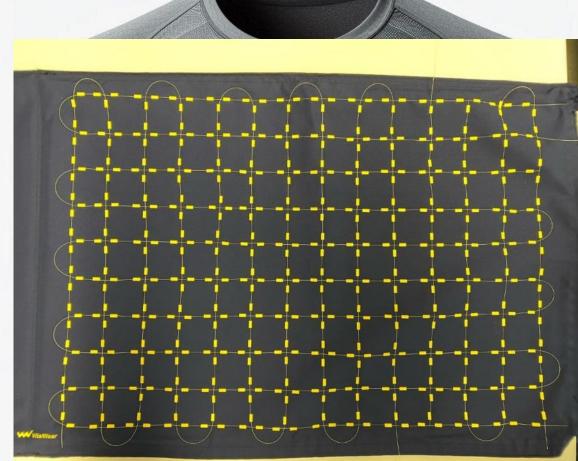
Rehabilitation Centers



Home Care



Optical Fiber Sensing Integrated in Textiles for Non-invasive Medical Applications











eric@vitalwear.nl www.vitalwear.nl

We help patients and nurses to prevent pressure ulcers.

Pre-Seed Financing Confirmed: € 1m in Loans and Grants Need: € 500k from Private Investors