

SMARTpro

Smart Textiles and Wearables

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Smart textiles: towards full integration

Preserving textile characteristics

Ensure maximal comfort

Requirements for electronic components and circuits

- **Thickness**
- **Light weight**
- **flexibility**

Additional properties

- **Drape**
- **Elasticity**
- **Breathability**
- **Washability**



SMARTpro: from lab-demo to industrial manufacturing

Through cross-sectoral cooperation

textiles			
electronics			
ICT			

for several application areas

- intervention
- sport and leisure
- technical
- (home) care



By the industry

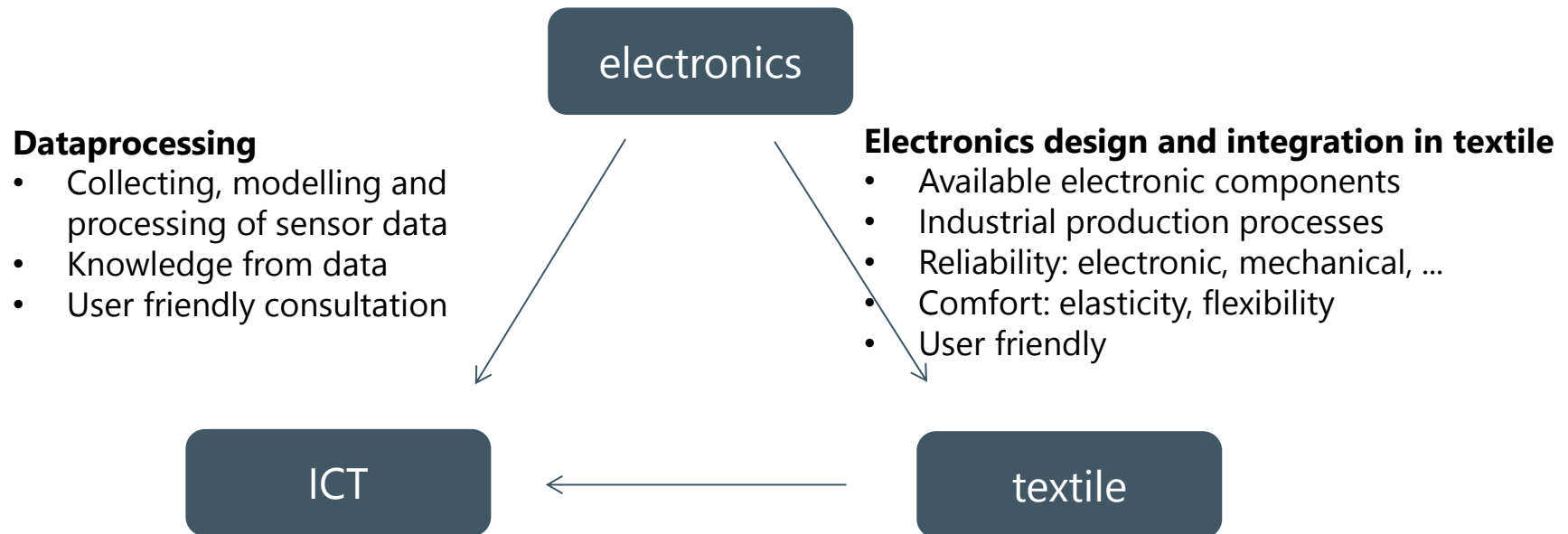
- ABS Laundry Business Solutions
- Balta Industries
- Deslee Clama
- Fabric Consulting (Caroline Biss)
- Helioscreen
- Niko Projects
- Sioen Apparel
- Yazzoom
- 2enjoy
- Aerosleep
- Bekintex
- Elasta
- Gociety
- Henkel Electronic Materials
- Page Electronica
- Televic Group
- Wollux
- ActWithCare
- Connect Group
- Esri
- Gysemans Clothing Group
- IOS International
- Quad Industries
- TIO3 – TIC
- ALLTHINGSTALK
- Bainisha
- Custom8
- Eurolasma
- Haelvoet
- Maastricht Instruments
- Sioen Industries
- VTEC
- NRB



SMART TEXTILES AND WEARABLE INTELLIGENCE



SMARTpro: challenges, options, possibilities



Objectives end users

- **Sport, care, intervention:** localisation, physiological parameters, temperature, activity monitoring
- **Technical:** pressure, temperatur, mechanical parameters
- Meet specifications
- Certification

Development of 4 generic demonstrators

Selection based on

- common technological challenges
- end user requirements
- available and state-of-the-art

with relevant applications in **home/care,**
sports, intervention & technical areas

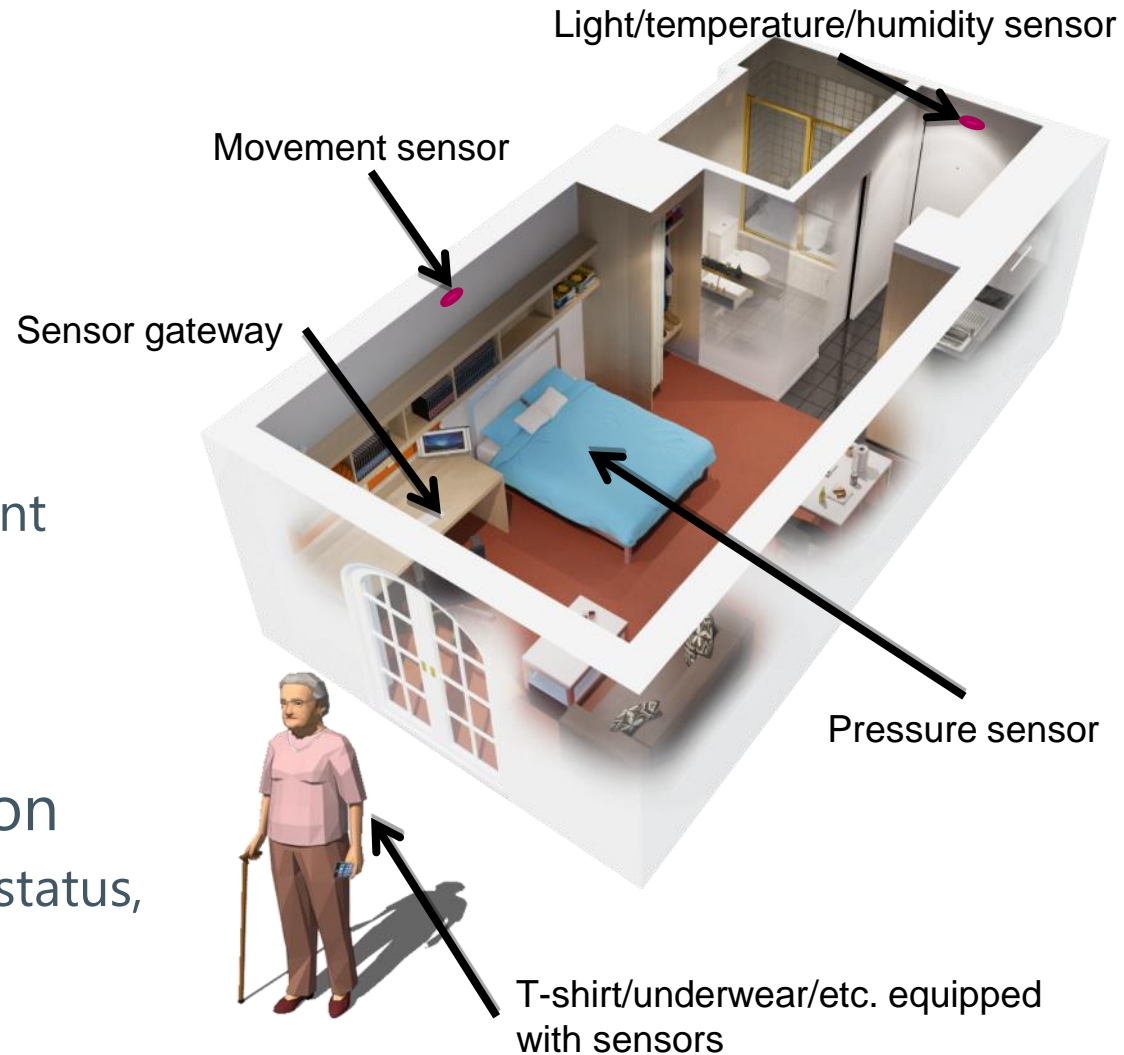


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Home/Care

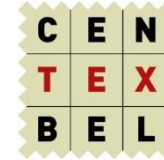
- Wandering
 - recognise where the patient is located and whether he or she is supposed to be there
- Fall detection
 - recognise a fall incident
- Activity monitoring
 - recognizing normal movement patterns
- Physiological condition
 - Monitoring of health status, trends and evolution



Thank you!

www.smart-pro.eu

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