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COMET PROJECT

TEXTILE-UX – IMPERCEPTIBLE TEXTILE INTERFACES

Main location: Hagenberg (Upper Austria), Linz (Upper Austria)
Other locations: none
Thematic area: Digitalization/ICT

Thematic focuses

- Smart Textile Interfaces
- Sensing
- Material Science
- Automotive Interfaces

Planned realisation and outcomes

The vision of TextileUX is to develop pressure-sensitive textiles that are adaptable to diverse demands with regards to material properties, sensing properties, and interaction techniques. With growing interest in unobtrusive human-machine interfaces, garments and everyday objects covered with smart sensing textiles will become the interfaces of the future. We propose a holistic solution: The core of TextileUX builds on a newly designed yarn, which features conductive and resistive properties. The following major steps are necessary for constructing an interactive textile interface:

1. textile fabrication,
2. the sensing hardware,
3. the signal processing framework,
4. the visualization, and
5. the prototype application

Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

Federal Ministry
Republic of Austria
Labour and Economy

Austrian Research Promotion Agency
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Selected company partners (max. 10)**:**

1. Haberkorn & Co GmbH
2. Herbert Kneitz GmbH
3. Hexcel Composites GmbH & Co KG
4. Kobleder GmbH
5. KTM E-Technologies GmbH

Selected scientific partners (max. 5)**:**

1. FH Oberösterreich Forschungs- und Entwicklungs GmbH (lead)
2. Johannes Kepler University
3. University of Art and Design Linz
4. TU Dresden

Selected international[1] partners (max. 5)**:**

1. BMW Group
2. Elektrisola
3. Volkswagen Group Future Center Europe GmbH

Duration:	01.10.2018 – 30.09.2022 (4 years)
Staff employment:	30 FTE, thereof 24 scientists
Management:	FH-Prof. Dr. Michael Haller, coordinator
Contact:	FH Oberösterreich Forschungs- und Entwicklungs GmbH Softwarepark 11, 4232 Hagenberg +43 664 9663432 haller@fh-hagenberg.at www.mi-lab.org

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[1] Partners with headquarters outside Austria