

COMET-Project

Smart@Surface	
Advanced Sensors, Materials, Actuators, Reactive User Interfaces and Illumination Technologies for Smart Object Surfaces	
Main location	Styria
Other locations	Burgenland, Tyrol
Research programme	Material-, device- and process development based on fundamental simulations for developing smart surfaces based on versatile materials (foils, wood, stone, leather); Design / development of user interfaces for 2D/3D smart surfaces with haptic feedback, backlit and intuitive handling; Development of multimodal sensors for smart surfaces
Planned realisation and outcomes	
The goal is to develop interactive surfaces for objects that are able to sense touch, pressure, strain and proximity and are also able to react on these external stimuli. Smart@Surface will give these arbitrary shaped objects a sensitive skin to detect human motion and vital parameters. This intelligent skin can be made from different materials and generates a seamless and clean surface with elegant appearance. It allows an intuitive interaction with human beings (natural control gestures) being supported with visual and haptic feedback.	
History of establishment	This new consortium was built from former and new partners of Joanneum Research Materials institute which have recognized that surface technologies can give a huge contribution for functionalization and digitalization of smart products.
Selected company partners (max. 10)	Selected scientific partners (max. 5)
1. ADA Möbelwerke Holding AG	1. JOANNEUM RESEARCH Forschungsgesellschaft mbH
2. F.LIST GmbH	2. Montanuniversität Leoben
3. Isosport Verbundteile GmbH	3. Ecole Polytechnique Federale de Lausanne (EPFL)
4. kdg opticomp GmbH	4. Interuniversity Microelectronics Centre (IMEC)
5. Niebling GmbH	
6. Parador GmbH	Selected international partners ¹ (max. 5)
7. Swarovski Optik KG	1. Ecole Polytechnique Federale de Lausanne (EPFL)
8. Wollsdorf Leder Schmidt & Co GmbH	2. Interuniversity Microelectronics Centre (IMEC)
	3. Niebling GmbH
	4. Parador GmbH
Start of the COMET-Project	01.09.2018 (4 years)
Number of personnel	44 (FTE) are involved (23 FTE are scientists)
Leader of consortium:	Dr. Martin Zirkl, JOANNEUM RESEARCH Forschungsgesellschaft mbH
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¹ Partners with headquarters outside Austria