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Smart Textiles Micro Factory brings Smart Textiles into series production for the first time at Texprocess 2019

The study "Technologies, Markets and Players" by E-Textiles 2018-2028 predicts a 2 billion dollar growth of the smart textile market. This growth can only be achieved by replacing the existing approaches, mostly manual production, with series production. With the Smart Textiles Micro Factory, the Institut für Textiltechnik of RWTH Aachen University, short ITA, will be demonstrating for the first time on the Texprocess stand, stand number C02, in the transition from Halls 4.1 and 5.1 how a smart textile can be manufactured from design to finished product together with various partners by producing a smart cushion.

The product and the manufacturing process are the result of co-innovation. In the future, co-innovation for smart textiles is to be implemented via the GeniusTex platform. As part of the German Federal Ministry of Economic Affairs and Energy's major strategic project for the “Smart Service World”, ITA is working with partners from industry and research to develop the online platform for smart textile innovation.

Partners of "Smart Textiles Micro Factory" are ITA (project coordination), Gerber Technology GmbH (cutting), Korea Institute of Industrial Technology KITECH (electronics), VETRON TYPICAL Europe GmbH (sewing), Wear it GmbH (product design and conception), ZSK Stickmaschinen GmbH (embroidery), ASYS Automatisierungs-

systeme GmbH, the Chair of Technology and Innovation Management, Fraunhofer Institute for Applied Information Technology FIT, Infineon Technologies AG, Lohmann GmbH & Co.KG, MADEIRA Garnfabrik, Otto Bock HealthCare Deutschland GmbH and Statex Produktions- und Vertriebs GmbH

Caption:
The cushion helps the user to operate different applications by means of sensor surfaces, light and wireless communication, for example an alarm function by light.
Source: ITA.

About the Institut für Textiltechnik of RWTH Aachen University, short ITA

The core of the ITA Group is the research and teaching institution, the Institut für Textiltechnik of RWTH Aachen University, short ITA, www.ita.rwth-aachen.de. The ITA Group is an international research and training service provider for fiber-based high-performance materials, textile semi-finished products and their manufacturing processes with 350 employees.