



PRESS RELEASE

Hall A2.C21

InnovationLab shows printed electronics at IAA MOBILITY

Innovative sensors save costs, improve safety and boost battery life in vehicles

Heidelberg, Germany – August 31, 2021 – [InnovationLab](#), the expert in printed electronics "from lab to fab", will be exhibiting at [IAA MOBILITY](#), the world's largest mobility event, in Munich from September 7th to 12th. InnovationLab will be showing its portfolio of printed and organic electronics at Hall A2, booth C21, with a focus on sensors.

The company's printed sensors provide a lightweight, flexible and cost-effective solution for many automotive applications. The sensors are ultra-thin, enabling them to be used where other components would be too thick. Available sensors include touch, pressure, temperature and humidity, as well as flat heating and lighting elements.

"Printed electronics are a natural fit for many uses in today's vehicles, including smart baby seats, heated seats, battery health monitoring, and human machine interfaces (HMI)," said Luat Nguyen, Managing Director at InnovationLab. "For car makers and Tier 1s looking to reduce costs, add features, and differentiate their designs, printed electronics can provide the new approach they're looking for."

In electric vehicles (EVs), printed pressure sensors can help improve battery capacity and lifetime (by up to 40%), by measuring pressure changes of the battery cells during charge and discharge. Printed temperature sensors on each battery cell can also detect any problems and prevent overheating, or automatically react to changing environment conditions

Printed sensors in seats can improve automotive safety, by measuring the pressure distribution on the seat and thus determining if a person is present. This information can be used to automatically activate or deactivate an airbag, as well as sounding an alert if a child has been left alone in their car seat.

For HMIs in the vehicle cabin, printed sensors can provide an ergonomic, easy to use solution, including buttons, sliders and many other shapes. Driver and passenger comfort can also be ensured by heated seats, incorporating printed heating elements.

At IAA Mobility, more than 1,000 exhibitors and speakers will present their innovations for the future of mobility. The event is organised by the German Association of the Automotive Industry (VDA), and will be opened on September 7th by German Chancellor Dr. Angela Merkel.

Companies exhibiting at the show will include Audi, BMW, Dacia, Ford, Great Wall, Hyundai, Kia, Mercedes-Benz, Polestar, Porsche, Renault, Smart, and Volkswagen. Suppliers represented include Bosch, Continental, Hella, Magna, Michelin, Muba, Samsung, Siemens, Valeo and ZF.



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About InnovationLab

Founded in 2008, InnovationLab GmbH is a one-stop shop for printed electronics, with a focus on flexible pressure sensors, as well as temperature, moisture and gas sensors, and the capability to design and produce fully integrated hardware/software systems. The company offers highly customized solutions and supports high-volume production at two manufacturing sites in Germany, providing hands-on support to its customers throughout the entire product value chain, from concept to bulk production of printed functional products. InnovationLab provides state-of-the-art infrastructure along with comprehensive expertise in materials, processes and printing technologies to develop novel products. InnovationLab also supports numerous research and industrial partners at its lab and fabrication facility, an interdisciplinary environment featuring 6200 m² of usable space for production, development and offices, including 700 m² state-of-the-art cleanrooms. For more information, see <https://www.innovationlab.de>