



## PRESS RELEASE

Booth B0.510

# InnovationLab and Heidelberger showcase printed sensors at LOPEC

***Collaboration enables high volume, cost-effective, organic and printed sensors***

**Heidelberg, Germany – March 7, 2022** – [InnovationLab](#), the expert in printed electronics "from lab to fab", announces that it will be attending [LOPEC](#), which runs from March 22 to 24 in Munich, Germany. LOPEC is the leading international trade fair and conference for printed electronics.

In collaboration with its partner, Heidelberger Druckmaschinen AG, InnovationLab will be showcasing its extensive portfolio of printed and organic electronics at booth B0.510, accompanied by a range of demonstrations. Heidelberger is the world's leading manufacturer of sheetfed offset presses, which have enabled cost-effective printed and organic sensors to be produced in unprecedented quality and quantities.

Dr. Florian Ullrich, Head of Business Development at InnovationLab, will be giving a talk on "[The Importance of Collaboration in Printed and Organic Electronics](#)" (22<sup>nd</sup> March at 14:40, in ICM Room 13b). In his presentation, Dr. Ullrich will discuss the complexity of printed and organic electronics products, and how partnerships present the way forward. He will also provide examples of successful co-working arrangements.

The demonstrations at InnovationLab's booth will include the following automotive, healthcare and smart city applications:

- Car seat developed with RECARO Automotive, highlighting how pressure sensor foils can help with driver assistance and safety systems.
- BaMoS – a battery monitoring solution for electric vehicles, which utilizes ultra-thin printed pressure and temperature sensors to collect detailed battery data down to the individual cell level.
- OccluSense® from Bausch, an occlusion control product for dentists, utilizing integrated flexible, printed pressure sensors to digitally record pressure distribution during the biting process.
- Smart catheter developed with accensors, uses a printed foil sensor to monitor the pH value and temperature at the tip, detecting the early-onset of infections.
- Smart patch developed by accensors, uses sensors to measure temperature and pH for the purpose of detecting open wound inflammation
- Golf balls – the Omnifire 1000 from Heidelberger could make the concept of combining printed electronics and 3D a reality. It utilizes advanced inkjet technology and high-precision robotics to individually decorate 3D objects.

InnovationLab has entered two projects in the [OE-A](#) (Organic and Printed Electronics Association) Competition, which will also be showcased at LOPEC. The first project is IntelliStok®, an innovative logistics and inventory system based on printed, organic sensor matrices developed by InnovationLab. It is used in customer warehouse applications to automate stock replenishment of Trelleborg Sealing Solutions' products, and utilizes printed pressure sensor matrices to weigh products in each bin and wirelessly send this data to the cloud.



The second project is conducted within the framework of 2HORISONS, a publicly funded research project. Based on standardized processing, InnovationLab has produced a process design kit (PDK), which enables the development of complex integrated circuits comprising organic semiconductors. This PDK will also be showcased at InnovationLab's booth at LOPEC.

"LOPEC is the most important event on the printed electronics calendar and I'm truly delighted to have the opportunity to present such a broad range of innovations and applications," said Luat Nguyen, Managing Director at InnovationLab.

LOPEC 2022 will be held at the ICM (International Congress Center) at the Messe München Exhibition Center. More than 130 exhibitors from 21 countries have registered and the conference will include around 200 presentations.

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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 m<sup>2</sup> of usable space for production, development and offices, including 700 m<sup>2</sup> state-of-the-art cleanrooms. For more information, see <https://www.innovationlab.de>