

The logo for FLEXOO, featuring the word "FLEXOO" in a bold, sans-serif font. The letter "O" is stylized with an orange outline and a white center, and the second "O" is a solid orange circle.

FLEXOO

A vertical orange line that separates the logo from the text.

Company Presentation

FLEXOO GmbH
an InnovationLab company

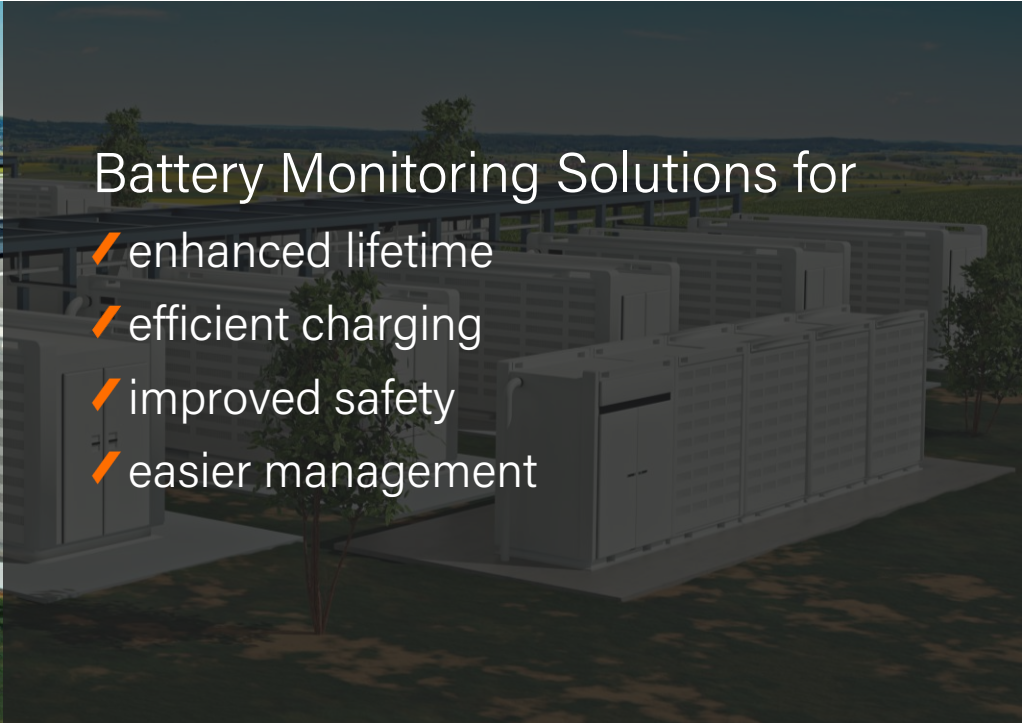
✓ We sense your needs

We specialize in delivering **end-to-end solutions** for smart **sensors** and **electronics** from initial development to final manufacturing.

Our dedicated team takes pride in tackling challenges head-on. Experience firsthand fast and purposeful problem-solving **tailored** to your unique needs .

Sense Everything Everywhere

FLEXO



Battery Monitoring Solutions for

- enhanced lifetime
- efficient charging
- improved safety
- easier management

E-mobility and Renewable Energy Storage

✓ Sense Everything Everywhere

FLEXO



Detection and measurement

- ✓ decentralized
- ✓ delocalized
- ✓ complex
- ✓ pressure, temperature, leakage and more

Industry & Automation

Sense Everything Everywhere

FLEXO



Recognition and identification

- intelligent
- sorting
- counting
- safety

Logistic & Retail

✓ Sense Everything Everywhere

FLEXO



Security and tracking

- ✓ affordable
- ✓ mass production
- ✓ reliable
- ✓ adaptable

Automotive & Transportation

✓ Sense Everything Everywhere



Recognition and identification

- ✓ high performance
- ✓ thin and flexible
- ✓ hybrid
- ✓ sustainable

Sense Everything Everywhere

FLEXO



Training and tech support

- path recognition
- anti-freeze solutions
- large-area sensors
- damage detection



Defense Industry

Our Technological Know-How

Printed Sensors

- Pressure & Temperature
- Crosstalk less
- Humidity and pH sensors

Printed Circuitry

- Flexible circuit boards
- Solderable
- Sustainable manufacturing

Printed Antenna

- NFC, RFID
- High volumes, large area
- Full customisation

Printed Heaters

- Self-limiting PTC heaters
- Stretchable heaters (TPU)
- Translucent heaters

End-to-End Solution for Unique Needs



Development

1200 m² of clean rooms and laboratories

Tailoring the layout and specs of existing sensor technologies

Developing new sensor technologies and sensor systems

Conceiving, **engineering** and **production** of hard- and software components

Embedding of the sensors into hardware, software and cloud systems



Upscaling

Our pilot line is a Gallus RCS 330 **modified specifically for printed electronics** with all type of printing (Flexo, ink-jet, gravure, etc.) and curing methods (IR, heat, UV, etc.)

Used for **process optimization** and **small series production** (<100k pieces) and prototypes.

Designed for **optimal usage** of ink volumes in order to **limit cost** of process development



Mass production

Manufacturing line: Gallus RCS 430

High precision (20 micron), **high-speed** production (up to 160 m/min), up to **7 different layers** in one run

Easily accessible and exchangeable printing modules and curing units allow for **fast switch between products** (1-7 days vs 2-4 weeks)

Expertise and technology in practice

FLEXO

BaMoS
The Battery Monitoring Solution for R&D

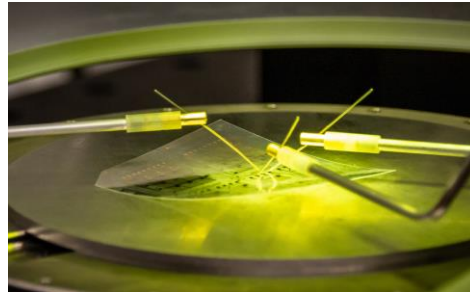
From R&D to mass production



BaMoS as a R&D tool

Battery Monitoring Solution is an exceptional R&D tool for **measuring** temperature and pressure **distribution** in prismatic and pouch cells.

With the capacity to deliver up to **100 million data points** per day, it offers invaluable insights to **understand and optimize** battery performance. Possibly extends **battery lifespan** by up to 40%.



Customisation

We design and develop the **tailor-made solutions** to measure vital components of the battery cells.

Matrices are not only **cost-effective** but also engineered to provide **precise real-time data** from your battery pack.

Perfectly fitted sensors **seamlessly integrate** into your management system.



Mass production

With over a **decade of expertise** and cutting-edge printing technology at our disposal, we excel in delivering top-tier parts with **unparalleled cost-effectiveness**.

We have the capability to swiftly supply **millions of parts**, ensuring your needs are met with **remarkable efficiency**.

Collaboration & Partnership

FLEXCO

Partnership based on bilateral expertise

Broad network of leading ink and materials providers to assure consistency in large volume production and bring the best solution to our customers.

 ELANTAS

 Henkel

 ACI

 CHASM™

 Coppriint

 **BASF**
We create chemistry

 EVONIK
Leading Beyond Chemistry

 DUPONT™

Our USPs

End-to-End Realization

We accompany customers from initial development to mass production and ensure seamless integration and success by **reduced time to market**.

High-Volume R2R Manufacturing

Our roll-2-roll printing machines are designed to manufacture complex products with several layers and different types of materials. Our unique manufacturing setup offers **large-scale production** of tailor-made sensors and electronics.

European Manufacturing Excellence

Our manufacturing lines are used to satisfy highest quality standards, established over years of experience by a Swiss leader for manufacturing of graphical printing machines, modified to produce functional prints with **highest quality and consistency**.

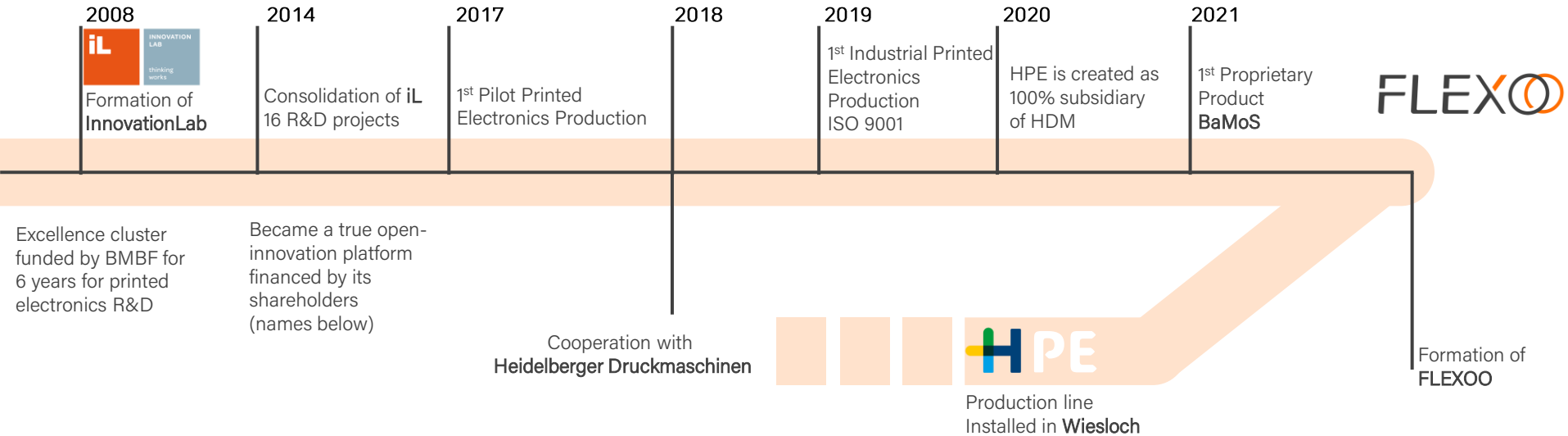
Flexibility

Our team possesses extensive expertise in materials and process technology, allowing us to deliver unparalleled **flexibility in designing** sensor and electronics products, setting a new standard in the market.

Who is FLEXOO?



R&D leader meets manufacturing excellence



InnovationLab original Shareholders :



Challenge us!

FLEXOO



Bart Jarkiewicz
Technical Sales Manager



Lars Keiz
Product Manager Battery Monitoring
Solutions



Dr. Florian Ullrich
Head of Business Development

[Schedule an appointment](#)

Customers who trusted us

FLEXO



NEC

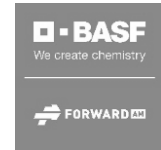
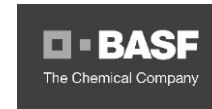
LEONI



RECARO



HEIDELBERG



tacterion



vibrosonic

