



Company Presentation

FLEXOO GmbH
an InnovationLab company

✓ We sense your needs

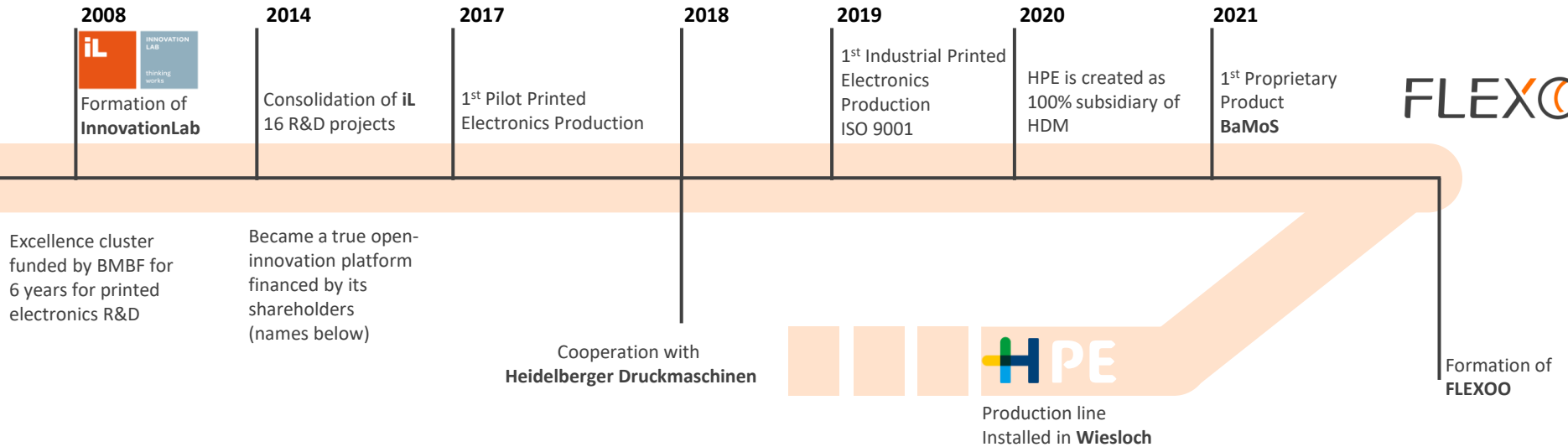
We specialize in delivering **end-to-end solutions** for smart **sensors** and **electronics** from initial development to final manufacturing.

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

Who is FLEXOO?



R&D leader meets manufacturing excellence

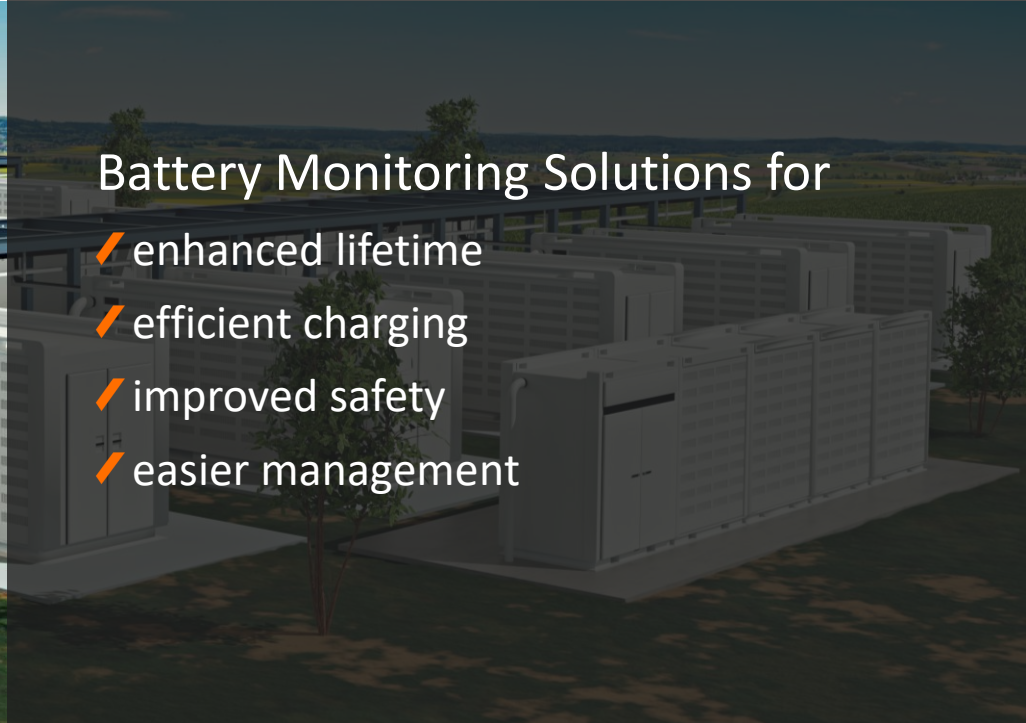


InnovationLab original Shareholders :



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



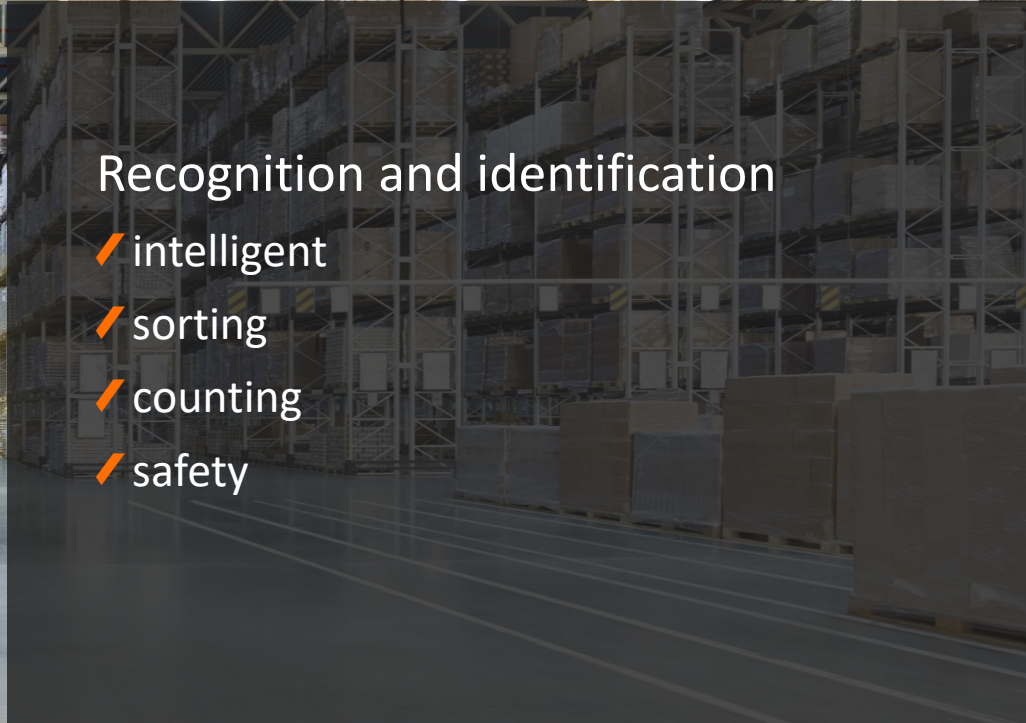
Detection and measurement

- 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



Large area and sustainability

- ✓ 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 mapping
- Humidity and pH sensors

Printed Circuitry

- Flexible circuit boards
- Solderable
- Sustainable manufacturing

Printed Antenna

- NFC, RFID, Telecommunication
- 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 development** and optimization, sample and **pilot production**.

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

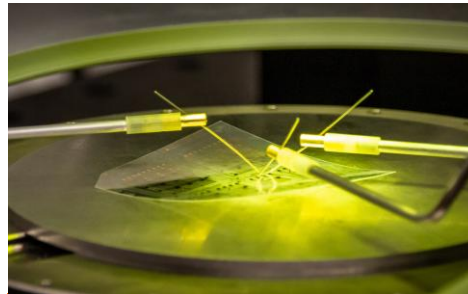
From R&D to mass production



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**.

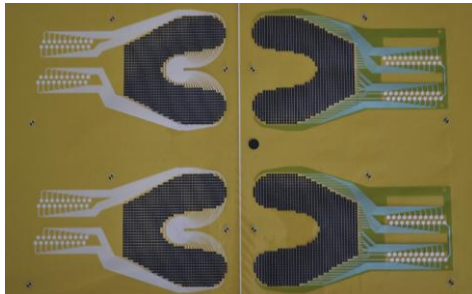
We have the capability to swiftly supply **millions of parts**, ensuring your needs are met with **remarkable efficiency**.

Expertise and technology in practice

FLEXO

OccluSense® - Digital sensor for dental application

Bausch

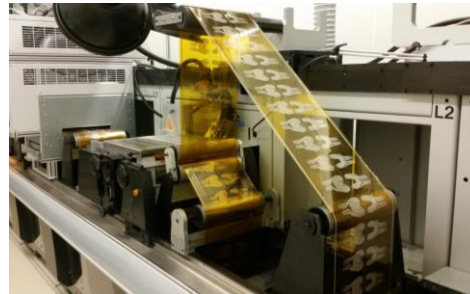


Development

Sensing matrices were developed **from scratch for customer.**

We made numerous iterations and prototypes to find the **perfect shape** of matrix and combination of materials.

Each matrix **contains over 1000** sensing pixels.



Upscaling

We prepared and tested layouts for **high productivity roll-2-roll printer.**

Conducted series of **tests and improvements.**

Produced first **sample batches** of sensors.



Mass production

Manufacturing line: **Gallus RCS 430.**

Produced millions of sensing matrices.

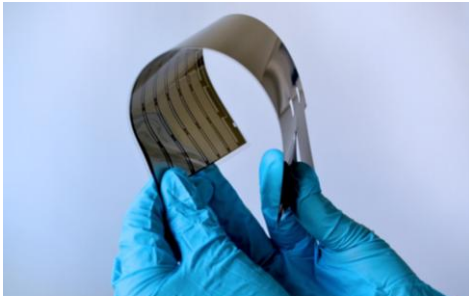
Product **available on market** since 2019.

Expertise and technology in practice

FLEXO

TRELLEBORG

IntelliStok® - Intelligent stock level monitoring system



Development

Sensing matrices were developed **from scratch for customer.**

Goal: **low weight detection**

Wireless communication with **real-time reporting** possibilities.



Upscaling and integration

Upscaling for **roll-to-roll production.**

Integration designed as **retrofit** for well-known stock storage units.

Wireless, rechargeable MCU for **versatile use.**



Mass production

Manufacturing line: **Gallus RCS 430.**

Brought to offer as a **crucial part** of automated inventory management system.

Our USPs

End-to-End Realization

We accompany our 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.

Collaboration & Partnership

FLEXCO

Partnership based on bilateral expertise

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

ELANTAS

Henkel

ACI

CHASM™

Copprint

BASF
We create chemistry

EVONIK
Leading Beyond Chemistry

DUPONT™

ATG
SERVICE

Customers who trusted us

FLEXCO



NEC

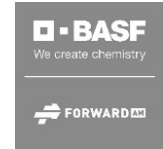
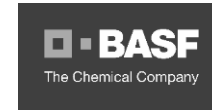
LEONI



RECARO



HEIDELBERG



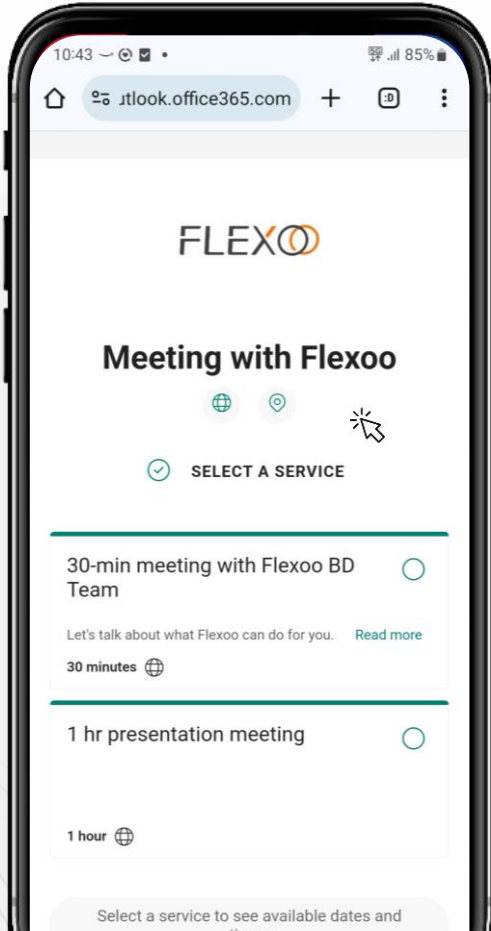
tacterion



vibrosonic



Challenge us!



Bart Jarkiewicz
Head of Sales



Lars Keiz
Sales Manager



Dominik Stasiak
Indirect Sales Manager

[Schedule an appointment](#)