

OE-A Delegation Trip to India

Exploring India's Dynamic Market
for Flexible and Printed Electronics

14th September – 18th September, 2026



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Dr. Klaus Hecker

Managing Director,

OE-A - Advancing the Flexible and Printed Electronics Industry

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Foreword

Dear Industry Colleagues,



India is one of the world's most dynamic growth markets and is rapidly expanding its electronics manufacturing capabilities. That creates real opportunities for flexible and printed electronics. A technology that makes products thinner, lighter, more flexible and often more sustainable, in fields ranging from automotive and healthcare to smart packaging, consumer electronics and the Internet of Things.

Independent forecasts expect the global market for flexible and printed electronics, excluding OLED, to reach around USD 22 to 38 billion by 2026 and USD 59 to 83 billion by 2033. The OLED segment is set to grow at a similar pace, to roughly USD 191 to 300 billion by 2033.

India is particularly well placed to capture this growth. National initiatives such as the India Semiconductor Mission and the Production Linked Incentive Scheme for Large Scale Electronics Manufacturing are actively driving investment, while strong domestic demand for cost-effective solutions and one of the world's largest consumer bases speed up the adoption of new technologies.

The core applications are already taking shape: in-mold electronics for automotive dashboards and controls, wearable sensors for health monitoring and diagnostics, displays, lighting and printed circuits in consumer devices, and the rapid uptake of RFID and NFC tags in smart packaging.

The OE-A, together with the VDMA India Office, has organized this business trip to bring leading international printed electronics companies together with Indian industry. Alongside the company visits, a highlight of the program will be electronica India and productronica India South in Bangalore, together with the OE-A Symposium on Flexible and Printed Electronics. There, Indian and international experts will share experience, discuss market requirements and explore concrete ways of working together. We warmly invite Indian companies, research institutes and start-ups to meet the delegation, and to tell us about their own capabilities and interests.

As the international working group for flexible and printed electronics within VDMA, OE-A brings together companies and research institutes from across the entire value chain I am confident that this trip will mark the beginning of lasting partnerships. For our Indian counterparts, it offers direct access to international technology partners, customers and suppliers, and a way to strengthen India's position in the global value chain. We look forward to meeting you in India.

Dr. Klaus Hecker

Managing Director,

OE-A - Advancing the Flexible and Printed Electronics Industry



About OE-A

The OE-A is the leading international industry association for flexible and printed electronics, and a working group within VDMA. It brings together around 180 companies and institutions from Europe, Asia, North America, and Africa covering the entire value chain of this emerging industry.

Its members cover the complete value chain, with application areas spanning automotive, health, consumer electronics, packaging, smart buildings, defense, aerospace, and the Internet of Things (IoT).

As a global, member-led organization, we drive high-profile events, collaborative working groups, and strong advocacy empowering our members to lead innovation.

- Gain market intelligence via technology & application roadmaps, strategic market information, industry forecasts, and business climate surveys.
- Strengthen the expert knowledge of your teams and grow your staff into innovation leaders.
- Increase global visibility at member meetings, LOPEC, and other international trade shows.
- Collaborate in technical and non-technical working groups.
- Engage in exchanges among experts, trainings, and web-seminars.
- Benefit from advocacy, policy support, and partnerships with standardization bodies.

In India, OE-A is actively expanding its network of companies and institutes to facilitate collaboration, promote technology adoption, strengthen production capabilities, and encourage the application of flexible and printed electronics across the country's rapidly growing manufacturing and electronics sectors.

About VDMA

The VDMA is a network of around 3500 engineering industry companies in Europe and Germany making it one of the largest and most important industrial associations in Europe with over 750 industry experts. VDMA was founded in 1892 and since then successful engineering companies have been working with us to create a powerful force to represent their interests both at national and international level. VDMA covers the entire process chain – in the field of mechanical engineering including associated tools and components, of process, production, manufacturing, drive-train and automation engineering, office and information technology, software, and product-related services, i.e. from components to plants, from system suppliers and system integrators through to service providers. VDMA is divided into 15 cross-sector departments, branch offices in Berlin and Brussels, offices in Austria, Belgium, Singapore, Brazil, China, India, Italy, Japan, Poland, Benelux and the USA, 35 trade associations and working groups, international committees and forums, six state associations and several service organisations.

VDMA India

The office in India acts a '**bridge-head**' between the German and Indian Industry and serves the Indo-German economic relations in the different engineering sectors. This office promotes the activities of the VDMA member companies in India with a nodal office in Kolkata and regional offices in Bengaluru, Mumbai and New Delhi/ Noida. VDMA India office maintains close relations with the Indian Industry, Indo-German companies, Embassy and Consulates and various Indian Industry Associations, particularly with CII, FICCI, EEPC, ASSOCHAM, FIEO, CAPEXIL, ICC, IGCC to name a few.

COMPANIES JOINING THE DELEGATION



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COMPANY PROFILE

IEE is a global leader in innovative sensing solutions. Operating worldwide, our advanced technologies improve safety in vehicles through automotive sensors, optimize space and monitor occupancy in building management, and enhance health performance with insole sensors (IoT). Products are based on hybrid flexible & printed electronics devices, radar and camera.

INDUSTRY/ APPLICATION AREAS

- ☐ Automotive: sensors for in-cabin occupancy detection and monitoring
- ☐ Medical & Health: insole sensors for pre- and rehabilitation, feeling prosthesis, neurodegenerative diseases
- ☐ Building, Shipping, Airports: occupancy detection, high security access control, queue management, people counting
- ☐ Consumer electronics (generic)

AREA OF INTEREST IN INDIA

- ☐ Automotive market for in-cabin safety applications and supply chain extension. IEE S.A. is already present since many years with the SBR sensor (seat belt reminder) and want to enhance our market position and other market opportunities.
- ☐ Material supply chain.
- ☐ Printed & flexible electronics landscape for potential cooperation.
- ☐ Academic / Institute landscape for printed electronics & radar technologies, big data & AI.

COMPANIES JOINING THE DELEGATION



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COMPANY PROFILE

INO develops and manufactures industrial screen printing equipment and complete automated production solutions. As a customer's technology partner, it focuses on achieving reliable production and future growth, adapting solutions to each customer's real manufacturing environment.

INDUSTRY/ APPLICATION AREAS

Industrial printing in printed electronics (membrane and capacitive keyboards, flexible circuits, graphic overlays), automotive components (printed sensors, heaters, IME), textile solutions (smart textiles, flexible heaters), and medical applications (biosensors, diagnostic test strips, and wearable devices).

AREA OF INTEREST IN INDIA

INO d.o.o. sees India as one of the most promising growth markets for the future. With its rapidly expanding manufacturing sector and increasing investments in printed electronics and advanced production technologies, India offers significant opportunities for collaboration and business development. Through our expertise in screen printing, automation, and printed electronics, we believe INO can contribute valuable solutions to support the continued development of the Indian industry.

COMPANIES JOINING THE DELEGATION



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COMPANY PROFILE

Biobased Tapes, Debonding on Demand, Longwear Skin Adhesive, Low Emission Tapes, Multifunctional Tapes, Optically Clear Tapes, Plate Mounting Tapes, Structural Bonding Technologie

INDUSTRY/ APPLICATION AREAS

Automotive, Cards & Security, Electronics, Flexo Printing, Home Appliances, Industrial Medical, Smart Building

COMPANIES JOINING THE DELEGATION



TracXon B.V.

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COMPANY PROFILE

TracXon develops high-speed, fully additive and sustainable roll-to-roll manufacturing solutions to replace subtractive and unsustainable printed circuit boards. TracXon's Flexible Hybrid Electronics technology enables PCB-replacements that are ultra-thin, light-weight and conformal in form factor.

INDUSTRY/ APPLICATION AREAS

IoT sensors, wearable devices, drone sensors and controllers, robotics sensors, automotive sensors, LED lighting and signage.

AREA OF INTEREST IN INDIA

Customers for TracXon's Flexible Hybrid Electronics technology, who are looking to localize PCB and sensors manufacturing. In particular, for devices that need flexibility / conformal form factor / light-weighting and high scaling. TracXon offers turn-key solutions to enable manufacturing of these devices in India.

COMPANIES JOINING THE DELEGATION



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COMPANY PROFILE

Hochschule München is one of the most diverse universities of applied sciences in Germany. Our strengths include our broad range of study programs, interdisciplinary research, entrepreneurial attitude, strong regional networks and cosmopolitan atmosphere. Our 14 departments and interdisciplinary schools, educate over 18,700 students in engineering, business, social sciences and design.

INDUSTRY/ APPLICATION AREAS

Printing electronics for research, education and transfer to industry is one special area of interest of the department digital media & print of the Hochschule München. Research activities focus on medical devices, as Parkinson tremor treatment, as well as printing of conductive lines by screen and inkjet printing.

AREA OF INTEREST IN INDIA

The area of interest is in the field of research and education in the field of printed electronics

COMPANIES JOINING THE DELEGATION



University of Luxembourg Advanced Engineering and Smart Sensor Solutions (AE3S) Laboratory

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COMPANY PROFILE

The AE3S Laboratory at the University of Luxembourg conducts cutting-edge research in smart sensors, artificial intelligence, Industry 5.0, digital twins, IoT, robotics, smart energy, and cyber-physical systems. We collaborate closely with industry to develop innovative, sustainable engineering solutions.

INDUSTRY/ APPLICATION AREAS

Artificial Intelligence, Smart Sensors, Printed Electronics, Organic Electronics, Industry 5.0, IoT, Digital Twins, Robotics, Smart Manufacturing, Smart Energy, Healthcare Technologies, Environmental Monitoring, Predictive Maintenance, Data Analytics, Sustainable Engineering.

AREA OF INTEREST IN INDIA

Research collaboration, joint R&D projects, technology transfer, student and researcher mobility, industrial partnerships, printed and organic electronics, smart sensing technologies, AI-enabled cyber-physical systems, sustainable manufacturing, and Horizon Europe/India collaborative initiatives.

COMPANIES JOINING THE DELEGATION



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COMPANY PROFILE

XTPL is a Polish (EU) high-tech company offering ultra-precise dispensing solution, with feature size down to 1 μm . The primary application is interconnect manufacturing, using XTPL's proprietary high metal content inks, based on silver (Ag), copper (Cu), and gold (Au). XTPL offers a full turn-key solution, including machines, proprietary materials and process tailored to applications. Product portfolio ranges from R&D devices, through High Mix Low Volume, up to industrial solutions.

INDUSTRY/ APPLICATION AREAS

- ☐ Semiconductor Packaging:
 - Open Defect Repair for UHDI PCB, Interposer and RDL;
 - 3D interconnects: next-gen Wire-Bonding;
 - high frequency interconnects and antennas;
 - Chiplet / microLED interconnects.
 - RDL prototyping;
 - TSV / TGV / microwell filling;
 - Circuit editing.
- ☐ Flat Panel Display Open Defect Repair.
- ☐ Sensors / MEMS.
- ☐ Defence: optically transparent electromagnetic shielding.

AREA OF INTEREST IN INDIA

XTPL looks to export to India its high-tech products for Ultra-Precise Dispensing, primarily of proprietary conductive inks, which allow to print microelectronics features as small as 1 μm . XTPL is present in India through partnership and distribution by Manz Asia. Main interest areas are open defect repair in Panel Level Packaging, especially for glass substrates and interposers. Target customers also include metrology labs, R&D centers, institutes and universities for the R&D tools.

COMPANIES JOINING THE DELEGATION



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COMPANY PROFILE

LOPEC Exhibition

The world's leading event for flexible, organic and printed electronics, connecting business and technology while driving innovation, networking and applications across the entire value chain.

LOPEC Conference

A leading platform for knowledge transfer, featuring industry insights, research results, innovative products and expert speakers, with tailored conference modules for focused learning and networking.

INDUSTRY/ APPLICATION AREAS

- ❑ 158 exhibitors from 29 countries, almost 60% of whom were from abroad
- ❑ 2,500 visitors from 48 countries and regions, 774 of whom also attended the conference
- ❑ Around 53% of visitors were international
- ❑ Around 170 conference presentations from 25 countries

AREA OF INTEREST IN INDIA

We are interested in the role that flexible and printed electronics play in the Indian market and would like to find out how LOPEC can attract additional exhibitors and visitors.

**OE-A Symposium at
electronica India and productronica India 2026
Flexible and Printed Electronics: From
Technology to Smart Applications
Thursday, 17th September 2026
02:00 PM Onwards
Jacaranda Hall, Conference Centre, Bangalore
International Exhibition Centre (BIEC),
Bengaluru**



01:45 PM – 02:15 PM	Registration
02:15 PM – 02:20 PM	Welcome Address by VDMA India Sandip Roy, General Manager, VDMA India
02:20 PM – 02:30 PM	Welcome Address by Consulate General of Federal Republic of Germany Dr. Christoph Dorschfeldt, Consul General, Consulate General of Federal Republic of Germany, Bengaluru
02:30 PM – 02:40 PM	Flexible and Printed Electronics: Products, Markets and Technologies Dr. Klaus Hecker, Managing Director, OE-A, DE
02:40 PM – 02:55 PM	30 Years Plus of Pragmatic Innovation with Printed Electronics Dr. Alain Schumacher, Chief Technology Officer, IEE S.A., LU
02:55 PM – 03:10 PM	Industrializing Printed Electronics Mr. Matjaž Finžgar, Key Account Manager, INO d.o.o., SI
03:10 PM – 03:25 PM	One Source for Smart Integrated Solutions: Mastering innovative Value-Chains Dr. Carsten L. Herzhoff, Managing Director & CTO/COO, Lohmann GmbH & Co. KG, DE

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Bengaluru



03:25 PM – 03:40 PM	Roll-to-Roll manufacturing of Wearables and IoT sensors for an AI-driven society Mr. Raghu Pendyala, Co-founder and COO, TracXon B.V., NL
03:40 PM – 03:55 PM	Inkjet Printing of Particle Free Silver Ink on PET Films Prof. Ulrich Moosheimer, Professor for Printing Technology and Innovation, Hochschule München, DE
03:55 PM – 04:10 PM	Smart Sensor systems for Healthcare, industry 5.0 and energy management Prof. Inès Chihi, Associate Professor, University of Luxembourg, LU
04:10 PM – 04:25 PM	When Every Micron Counts: Ultra-Precise Printing for Displays, Sensors and Advanced Packaging Dr. Witold Nawrot, Strategic Partnerships Lead, XTPL S.A., PL
04:25 PM – 04:40 PM	Question & Answer Session
04:40 PM – 04:45 PM	Closing Remarks
04:45 PM onwards	Networking Hi-Tea

THE OE-A TEAM



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Managing Director
OE-A – Advancing the Flexible and Printed
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THE VDMA INDIA TEAM



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