



OstWestfalenLippe – Home of Industrial Intelligence!

**OstWestfalenLippe
at Hannover Messe**

1 - 5 April 2019 | Hall 16 Stand A04

WIR GESTALTEN UNSER MORGEN

www.owl-morgen.de



DIGITALISIERUNG ANPACKEN. FÜR EIN GUTES MORGEN.



EUROPAISCHE UNION
 Investition in unsere Zukunft
 Europäischer Fonds
 für regionale Entwicklung



EFRE.NRW
 Investitionen in Wachstum
 und Beschäftigung

Ministerium für Wirtschaft, Innovation,
 Digitalisierung und Energie
 des Landes Nordrhein-Westfalen



OstWestfalenLippe – Home of Industrial Intelligence!

Networked manufacturing, intelligent products and smart services: machine learning is of great importance for the digital transformation of industries. Machines become more reliable and user-friendly. New business models emerge. In the Leading-Edge Cluster it's OWL, companies and research institutes jointly develop new approaches for SMEs.

At Hannover Messe, 50 cluster partners demonstrate solutions and application examples at the OWL joint stand, organised by OstWestfalenLippe GmbH and OWL MASCHINENBAU. World market leaders in the automation industry will be there alongside medium-sized mechanical engineering companies, interdisciplinary research institutes as well as startups and business-related organisations.

Find out about new approaches for Artificial Intelligence and digital platforms. Discuss with us innovative methods for intelligent manufacturing and product development. Experience, how assistance systems improve human-machine-interaction. And let the ideas of our startups inspire you to explore new paths.

it's OWL: Pioneers for Industrie 4.0. Application-oriented cutting-edge research. A strong network for SMEs. Attractive employers in industry and science.

**We are looking forward to your visit
 to the "Home of Industrial Intelligence".**

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Programme highlights

Industrie 4.0 made in OWL – Guided stand tours

Tue, 2 April to Thu, 4 April 2019 | 10:30 a.m. and 2 p.m.

Experience our exhibitors' innovative solutions during themed stand tours (approx. 45 min).

For more information, please contact Jörn Dux,
dux@owl-maschinbau.de

OWL evening event

Thu, 4 April 2019 | 6 p.m.

Experience exchange and fair review for experts and multipliers from OWL and beyond – with local beer and sausages.

With the support of FMB – The Supplier Show for Mechanical Engineering

OWL for students

Fri, 5 April 2019

Programme and advice for students from OWL who are interested in technology.

In cooperation with zdi-centres in OWL

Startup event | Hall 16 A10

Thu, 4 April 2019 starting at 11:00 a.m. – 13:00 p.m.

Startups present their business ideas at the NRW joint stand. Let them inspire you!

Forum tech transfer | Hall 2

Tue, 2 April 2019 | 2 - 3 p.m.

“Machine Learning, Big Data in Production, Digital Twins and Digital Business – new projects of the Leading-Edge Cluster it's OWL”

Thu, 4 April 2019 | 11:30 a.m. - 12:00 p.m.

“Industrie and Work 4.0 for SMEs – support services and application examples”

For more information please go to
www.its-owl.com/hannovermesse

The OWL Joint Stand

More than 50 exhibitors present on 670 m² solutions, practical examples and support services for intelligent manufacturing.

INDUSTRIAL AUTOMATION

Machine Learning

Innovative automation and drive solutions are the basis for intelligent production. In the Leading-Edge Cluster it's OWL, world market leaders develop new solutions for machine learning that lead to considerable improvements and savings.

BECKHOFF **KEB** **Lenze** **PHOENIX CONTACT** **WAGO** **Weidmüller**

INTELLIGENT MACHINES AND SMART SERVICES

Networked systems, innovative production and platforms

Technological leaders from the SME sector stand for reliable, efficient and user-friendly machines and devices. At the stand, they will present networked machines, vehicles, hazardous materials storage and related services. New methods of additive manufacturing, high-performance joining and signal transmission contribute significantly to these fields of technology.

ADAMOS **BOGE** **BÖLLHOFF** **CLAAS**
CONGINEER **CONTACT** **DASSAULT** **DENIOS** **GSR** **INTORQ**
KRAUSE **Miele** **.steute** **topocare** **TORWEGGE**

CUTTING-EDGE RESEARCH FOR INTELLIGENT TECHNICAL SYSTEMS

Innovation partner for SMEs

Our universities and research institutes make research findings available through new technologies. In Hannover, they show applications in assistance systems, machine learning, networked systems, intelligent product development and electromobility.

FH Bielefeld **ites** **Fraunhofer** **Fraunhofer** **int**
Universität Bielefeld **CITEC** **CORELab** **UNIVERSITÄT PADERBORN**

STARTUP REGION OSTWESTFALENLIPPE

Ideal environment for new business ideas

New business ideas emerge from the partnerships within the network. In OstWestfalenLippe, startups find an ideal environment. Universities, incubators and the Technologiefonds OWL provide entrepreneurs with support in developing their business concept. At the joint stand, startups will present their approaches for artificial intelligence, robotics, additive manufacturing, warehouse management and the use of drones.

AMENDATE **AROVISION** **HADOCO** **Lytt** **MSI DIAGNOSTICS** **PRODA50**
PULPO WMS **Robomatic** **UNCHAINED** **INNOVATIONS** **garage33**
TEC **KNOWLEDGE** **Z+Ug** **FOUNDERS** **STARTUP**

NETWORKS AND SERVICES

We support SMEs and bring partners together

Industry initiatives, chambers of commerce and economic development organisations are transfer partners of it's OWL. As part of the "OWL 4.0 – We shape our tomorrow" strategic concept, they support companies in harnessing the potential of digital transformation. This, for example, is done through digitalisation checks, training courses and partner matchmaking.

DIGITAL IN NRW **EnergyImpuls OWL** **FMBI** **IHK** **IHK**
Innovation Campus Lemgo **it's owl** **OWL** **owl maschinenbau** **Gütersloh**
WEGE

INDUSTRIAL AUTOMATION

- 1 Beckhoff Automation GmbH & Co. KG
- 2 KEB Automation KG
- 3 Lenze SE
- 4 Phoenix Contact GmbH & Co. KG
- 5 WAGO Kontakttechnik GmbH & Co. KG
- 6 Weidmüller Group

INTELLIGENT MACHINES AND SMART SERVICES

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- 9 Krause DiMaTec GmbH
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- 18 CONTACT Software
- 19 topocare GmbH
- 20 TORWEGGE GmbH & Co. KG

CUTTING-EDGE RESEARCH FOR INTELLIGENT TECHNICAL SYSTEMS

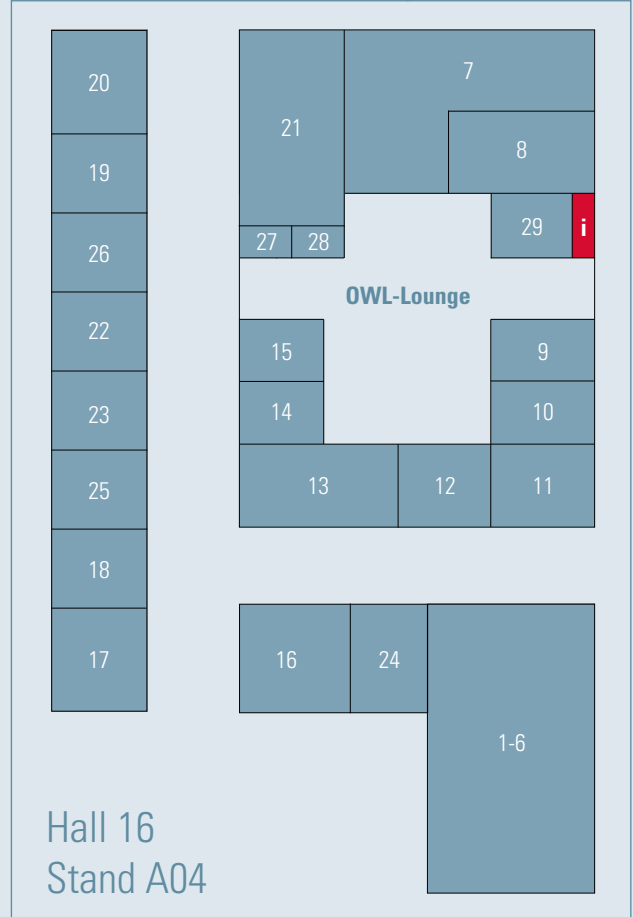
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Impressions 2018



Industrial Automation

Machine Learning

Beckhoff Automation GmbH & Co. KG

BECKHOFF

Beckhoff integrates communication, IoT, measurement technology, monitoring, vision, analytics and integrated engineering in one control solution: PC-based Control. Machines and plants all over the world are ideally equipped for Industrial 4.0.

www.beckhoff.com

KEB Automation KG

KEB

KEB generates Automation with Drive based on embedded and IPC control systems, integrated safety technology and a complete range of modern electric and electromechanical drive technology. Control technology, automation – starting, stopping, positioning – from the HMI to the machine shaft.

www.keb.de

Lenze SE

Lenze

Lenze brings digitalization to the machine manufacturer and supports all phases of the machine life cycle - from the idea to operation, from the drive shaft to the cloud.

www.lenze.com

Phoenix Contact GmbH & Co. KG

PHOENIX CONTACT

Phoenix Contact is the worldwide market leader of components, systems and solutions for electric engineering, electronics and automation. We use digitization to create added value. The know-how of our approximately 2,000 engineers makes us a pioneer in new products, systems and solutions.

www.phoenixcontact.com

WAGO Kontakttechnik GmbH & Co. KG

WAGO

The WAGO Group is an international, standard-setting supplier of electrical interconnection and automation products and interface electronics. WAGO has continued to grow since being founded in 1951, with a current worldwide workforce of around 8,000. The company achieved sales of EUR 862 million in 2017.

www.wago.com

Weidmüller Gruppe

Weidmüller

Weidmüller supports customers around the world with products, solutions and services in the industrial environment of power, signal and data. Based on this know-how Weidmüller offers concrete solutions for Industry 4.0 and the digitalisation of the production, which offer specific use for the customers.

www.weidmueller.com



Intelligent machines and smart services

Networked systems, innovative production and platforms

ADAMOS GmbH



ADAMOS offers a unique combination of community and IIoT technology to mechanical & plant engineering. Within the ADAMOS partner network, digital products and solutions are developed collaboratively.

www.adamos.com

BOGE KOMPRESSOREN Otto Boge GmbH & Co. KG



Providing our customers with the air to work – this is the maxim of BOGE. As one of the market leaders we have been developing and producing compressed air systems for over 100 years. BOGE – Best of German Engineering.

www.boge.com

Böllhoff Group



Welcome. We are your expert for fastening and assembly. More than 3,000 employees at 40 locations worldwide ensure customer orientation and know-how transfer. We are right where you need us — by your side. Do not hesitate to contact your partner to succeed in joining.

www.boellhoff.com

CLAAS Group



Founded as family business in 1913, CLAAS is one of the world's leading manufacturers of agricultural engineering equipment. The company furthermore offers state-of-the-art farming information technology.

www.claas.com

Congineer Group



The Congineer Group bundles specialized competences into a unique service portfolio on the market. With 200 employees from the field of electronics and control engineering, we work interdisciplinarily and develop user-specific solutions.

www.congineer-group.de

CONTACT Software



CONTACT is the leading vendor of open standard software and open source pioneer for the product engineering process and the digital transformation. Our products allow you to organize projects, implement reliable processes and collaborate with others around the world on the basis of virtual product models and their digital twins.

www.contact-software.com

Dassault Systèmes, the „3DEXPERIENCE Company“



provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported.

www.3ds.com

DENIOS - Because nature trusts in us.



DENIOS is the world's leading manufacturer and supplier of products and services for occupational environmental protection and occupational safety. Visit us:

www.denios.com

GSR Ventiltechnik GmbH & Co. KG



Over 45 years of experience in development, production and worldwide distribution of solenoid and pressure-operated valves makes GSR Ventiltechnik the right partner for reliable valve technology.

www.ventiltechnik.de

INTORQ GmbH & Co. KG



INTORQ stands for reliable brake solutions of the highest standard. Whether in brake motors and servo motors, cranes, wind turbines or lift systems – INTORQ products are used in the most diverse of applications. Rely on us to create the right solution for your drive – individually and reliably.

www.intorq.com

Krause DiMaTec GmbH



Additive Manufacturing in Mechanical Engineering – from the conceptual design to the finished component. Krause DiMaTec offers the complete solution for the entire product development and manufacturing process.

www.krause-dimatec.de

Miele & Cie. KG

Miele

Miele is the world's leading supplier of premium household appliances. The basis of its business activities is the continuous improvement of its products and services. New digital development methods, such as advanced system engineering, make the increasing product complexity controllable and secure.

www.miele.de

steute Technologies GmbH & Co. KG

.steute

Safe switchgear and sensors for complex and demanding applications – in industrial automation, logistics, medical equipment, building automation and offshore industry.

www.steute.com

topocare GmbH

topocare
simply innovative

We use the cryptocurrency IOTA to demonstrate how the machine payment of the future might look like. topocare is a leading provider of flood protection solutions and is developing cyber-physical systems such as machinery and simulation based approaches.

www.topocare.com

TORWEGGE GmbH & Co. KG

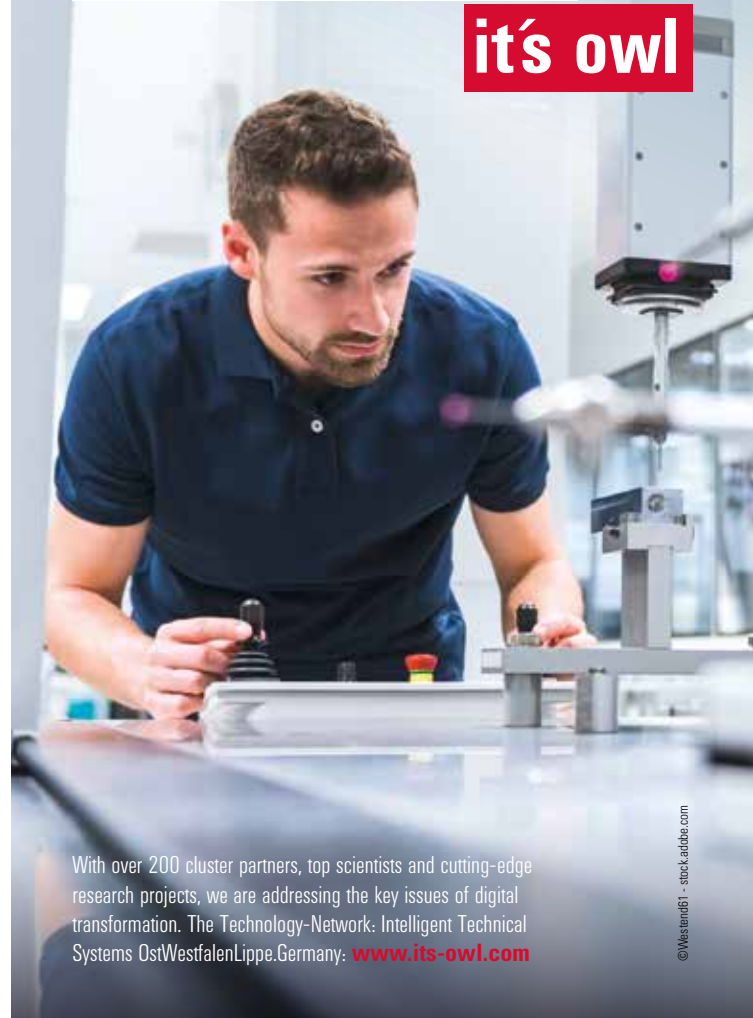
TORWEGGE

TORWEGGE supplies technical components and solutions for unit goods handling and intralogistics. From wheels and castors, transportation equipment, standard conveyor elements through to fully customized system solutions.

www.torwegge.de

Who links you up with specialists for digitisation?

it's owl



With over 200 cluster partners, top scientists and cutting-edge research projects, we are addressing the key issues of digital transformation. The Technology-Network: Intelligent Technical Systems OstWestfalenLippe.Germany: www.its-owl.com

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Sponsored by:

Ministry of Economic Affairs,
Innovation, Digitalization and Energy of the
State of North Rhine-Westphalia



Cutting-edge research for Intelligent Technical Systems

Innovation partner for SMEs

Bielefeld University of Applied Sciences | Faculty IuM



The Faculty of Engineering and Mathematics (IuM) of Bielefeld University of Applied Sciences researches in the guiding themes “Technology for people” and “Technology for energy and materials”.

www.fh-bielefeld.de/iuM

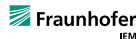
Institute for Technological Energy-Systems (ITES)



The ITES of Bielefeld University of Applied Sciences is engaged in designing innovative energy and communication concepts to face great social challenges like the energy transition.

www.fh-bielefeld.de/iuM/ites

Fraunhofer IEM – Expert in intelligent mechatronics



The Fraunhofer Institute for Mechatronic Systems Design IEM in Paderborn provides expertise in intelligent mechatronics in the context of industry 4.0. Its core competences in this field are Intelligence in Mechatronic Systems, Systems Engineering and Virtual Prototyping.

www.iem.fraunhofer.de/en

Fraunhofer IOSB-INA Technology for Intelligent Automation



Fraunhofer in Lemgo deals with intelligent technical systems. The institute's R&D focus lies within intelligent sensor systems, industrial internet (IIoT), cyber security in production, big data platforms, machine learning and assistance systems.

www.fraunhofer-lemgo.de

Institute Industrial IT (inIT) of the Technische Hochschule OWL



The inIT is one of the leading research institutes in the field of Industrial Information Technology. At inIT Information and Communication Technology (ICT) are brought in line with the high demands of Automation Technology. Therefore inIT's five areas of competences are Industrial Communication, Industrial Image Processing and Pattern Recognition, Distributed Real-Time Software, Computer Intelligence and Human-Machine Interaction.

www.init-owl.de

Bielefeld University



Bielefeld University's CITEC and CoR-Lab stand for cutting-edge research in Human-Machine-Interaction, machine learning and cognitive robotics, bridging the gap between science and industry.

www.uni-bielefeld.de

Paderborn University



Paderborn University is an internationally oriented campus university with around 20,000 students. Interdisciplinary teams shape future-oriented research and innovative teaching as well as active knowledge transfer.

www.uni-paderborn.de

Startup region OstWestfalenLippe

Ideal environment for new business ideas

AMendate GmbH



AMendate is a software for an automated part design with a focus on 3D printing. The generated part is optimally adapted to its loads, reduces the use of material and can be manufactured right away.

www.amendate.com

AXOVISION



AXOVISION develops a model of interrelated artificial intelligences, which analyze the stock market. The portfolio shows a performance of 33% p.a. and will be marketed as an investment fund.

www.axovision.com

Hadoco – towards Customer Relationship Automation



Our AI increases the efficiency in the CRM at B2B Consumer goods companies through automation. We raise the Customer Lifetime and the market basket size. Furthermore, the customers get personal offers.

www.hadoco.de

Lytt GmbH



Lytt is a digital assistant that helps employees to easily address difficult topics. Thereby companies understand their working climate and sustainably promote the satisfaction and health of their employees.

www.lytt.de

MSI Diagnostics GmbH



„Like a baking mixture used for a cake, our kit is the fast, simple and cost-effective solution for the preparation of tissue analysis“. We are developing an apparatus for applying matrix to a tissue (e.g. tumor) in preparation for metabolite analysis using mass spectrometry imaging.

www.msi-diagnostics.com

PRODASO



PRODASO enables efficient recording of production and machine data. Innovative hardware and a unique IoT platform enable fast analysis and optimization.

www.prodaso.de

PULPO WMS - Warehouse Management System in the Cloud



Warehousing made easy. Picking using Pulpo's intuitive Android App for best productivity. The next step in optimizing your intra-logistics, using the Pulpo WMS Cloud Platform.

www.pulpowms.com

Robomantic - Ergo Tango, Ergo Sum



I feel, therefore I am. With this tenor, Robomantic provides sensing devices; As gloves for optimizing ergonomics in product and assembly. And for tact in robotics and prosthetics.

www.robomantic.de

Third Element Aviation GmbH



We develop, design and build industrial drones for professional applications – from simple building inspections over highly automated surveillance tasks all the way to innovative landmine detection.

www.3rd-element.com

Unchained Robotics



Unchained Robotics reduces the manufacturing costs of equipped and printed circuit boards for power electronics. Our customers benefit from a system solution consisting of camera, software and cobot.

www.unchainedrobotics.de

InnovationslaborOWL



The collaborative project of Paderborn University, Bielefeld University, Technische Hochschule OWL and Bielefeld University of Applied Sciences supports technology- and knowledgebased startups.

www.innovationslaborowl.de

Bielefelder Initiative für Unternehmensgründungen (BifU)



As part of a cooperation between FH Bielefeld and IHK Ostwestfalen, events and consulting are offered on start-up-relevant topics. Support is provided by experts from the fields of innovation/ technology and business start-ups/ business promotion.

www.fh-bielefeld.de/karriereportal

garage33 | TecUP



The incubator - garage33 - offers startups an ideal infrastructure to develop their business idea up to the level of marketability. Moreover, it serves companies as a think tank, where they can develop disruptive business models with unconventional thinkers.

www.garage33.de | www.tecup.de

knOWLedgeCUBE



The knOWLedgeCUBE offers an open and creative atmosphere on the campus of Technische Hochschule OWL in Lemgo, with workshops, coachings and events for students, start-ups and companies.

www.hs-owl.de/knowledgecube

Center for Business Foundation



The Center for Business Foundation supports startup teams via coaching and workshops. It also serves as platform to connect teams with other universities, companies and startup institutions.

www.uni-bielefeld.de/Universitaet/Forschung/Gruendung-Schutzrechte

Founders Foundation gGmbH



Founders Foundation is a B2B startup hub and talent pool: it educates and develops the next generation entrepreneurs in the heart of the German Mittelstand, Ostwestfalen-Lippe. At the core of its founder training are the 8-week Founders Academy and the 6-month Founder Accelerator. Furthermore Founders Foundation is the initiator of the annual Hinterland of Things conference.

www.foundersfoundation.de

Startup Region_OWL



Startup Region_OWL is the startup network in Ostwestfalen-Lippe. It connects and monitors the local startup scene. As part of the community entrepreneurs benefit from participation in exclusive networking-events, media reach, contacts to stakeholders and local entrepreneurs as well as many other specials.

www.startupregionowl.de

Networks and services

We support SMEs and bring partners together

Digital in NRW – competence for SMEs



In the competence center initiated by the Federal Ministry of Economics, the leading-edge cluster it's OWL works together with the Rhineland regions and Ruhr metropolis. The objective is to prepare SMEs in North Rhine- Westphalia (NRW) for the digitization and networking and work out concrete offers for a collective implementation.

www.digital-in-nrw.de

Energie Impuls OWL e.V.



120 network members from industry, universities and institutions promote the development of energy competence in OWL. Energie Impuls OWL initiates and realizes inter- and transdisciplinary projects with various partners.

www.energie-impuls-owl.de

FMB The supplier show for mechanical engineering – Easyfairs GmbH



In the heart of Germany's strongest mechanical engineering clusters, FMB and FMB-Süd provide an innovation platform for together more than 700 suppliers. Next show dates: 6-8 November 2019, Bad Salzuflen and 12-13 February 2020, Augsburg Germany.

www.fmb-messe.de | www.fmb-sued.de

IHK Lippe, IHK Ostwestfalen



The two chambers of industry and commerce support the innovative capacity of the local companies. Corporate consultants for innovation provide information and advice: from digitalization or product safety and rights up to public funding. Matching between companies and universities are continuously initiated and supported.

www.detmold.ihk.de | www.ostwestfalen.ihk.de

Innovation Campus Lemgo



„Innovation happens where people get together.“ A landmark initiative to concentrate all forces from Research, Education and Industry in the target field of Digital Transformation.

www.icl-owl.de

it's OWL Clustermanagement GmbH



In the technology network it's OWL, more than 200 companies, research institutes and organisations are developing approaches and solutions for intelligent products and production processes. New technologies are being made available to small and medium-sized enterprises.

www.its-owl.com

City of Gütersloh (Stadt Gütersloh)



Work, Education, Occupation, Freetime, Administration and Social life. The digitalization concerns us all. With the launch of the „Digital Start“, the City of Gütersloh wishes to welcome this change together.

www.digitaler-aufbruch-guetersloh.de

WEGE Wirtschaftsentwicklungsgesellschaft Bielefeld mbH



WEGE Wirtschaftsentwicklungsgesellschaft Bielefeld mbH as the official business development agency of the City of Bielefeld is the key contact for companies that are seeking a suitable location in Bielefeld, searching for a cooperation partner or wishing to invest. It's our pleasure to assist you with your investment in Bielefeld.

www.wege-bielefeld.de | www.das-kommt-aus-bielefeld.de

Organiser

OstWestfalenLippe GmbH



OWL GmbH is a joint venture of the Gütersloh, Herford, Höxter, Lippe, Minden-Lübbecke and Paderborn districts together with the municipality of Bielefeld and the regional business and science community. The aim is to develop and promote EastWestphaliaLippe as a high-tech region. With the concept „OWL 4.0“ the regional development aims to use the opportunities of the digital transformation for OWL. Under the Motto „The new UrbanLand“ will be part of the REGIONALE 2022 developed a completely new model of urban-rural relations.

www.ostwestfalen-lippe.de

OWL MASCHINENBAU e. V.



owl maschinenbau is the competence network for mechanical engineering in Ostwestfalen-Lippe. For more than 15 years, we have been working with great enthusiasm and with emphasis on close exchange with our more than 200 members and partners for the sustainable success of the mechanical engineering region of Ostwestfalen-Lippe. The focus on our members' needs and a trustful relationship represent the „DNA“ of our work. By exhibiting agile adaptation, we face current topics and meet the challenges of the future. Together, our network develops OWL into a model of innovation, digitalization and entrepreneurial success in the field of mechanical engineering.

www.owl-maschinenbau.de

conform GmbH

**BRAND SPACES - Strong stagings
for lasting impressions**



conform has been an international expert for spatial brand staging and live communication for almost 30 years. Across industries we design and realise three-dimensional brand presentations for our reputable clients that convey strategic communication content in an experience-orientated manner. Exhibition stand, brand space, showroom or mobile presentation – conform stands for profound and strong concepts and innovative implementation.

www.conform.cc



Die Vielfalt macht's

Ob KMU oder Konzern,
etabliert oder StartUp.
**Wir vernetzen
den Maschinenbau.**

www.owl-maschinenbau.de

OWL Joint Stand is supported by:



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