



One Structure Generating Synergies

From basic research to application-oriented industrial projects and global collaboration: BIBA participates in a wide range of activities and its research in production and logistics covers a broad spectrum. BIBA is structured to support this kind of variety, with close connections to the University of Bremen's Faculty of Production Engineering and its global partner network.



BIBA

Research for Production and Logistics

Methods – Processes – Technologies

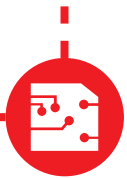


Prof. Dr.-Ing. habil. Klaus-Dieter Thoben leads the BIBA research division ICT Applications for Production (IKAP) and the Research Group of Integrated Product Development at the Institute for Integrated Product Development (BIK) from the university's Faculty of Production Engineering.

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Taking Innovative Technologies from Idea to Product

At BIBA we conceive, develop and implement methods and tools to plan and control logistics processes, to coordinate product development and production in enterprise networks, and to ensure that information is fully available throughout the entire product lifecycle. With a focus on engineering, we conduct research across industries and institutions along the entire value chain, including the fields of digitalization, Industry 4.0, interoperability, production planning and control, process optimization, robotics, automation and human-machine interaction.



Interface between Industry and Science

We offer an extensive infrastructure for research and transfer. Our laboratories cover the following competences:

- Product Development
- Digital Products and Services
- Internet of Things in Production Processes and Product Lifecycles
- Production Planning and Control
- Robotics and Automation
- Human-Robot Collaboration
- Artificial Intelligence and Image Processing
- Serious Gaming and Augmented Reality
- Innovation Hub



Product Meets Process Digital Meets Physical

BIBA's key focus is transferring scientific findings into real-life applications in business and industry. This transfer is performed on several levels: ideas are discussed and assessed in interdisciplinary groups, creating knowledge in a bilateral exchange between research and industry. Technical solutions are transferred from research into industrial applications. BIBA leverages its unique combination of research on both product development on the one hand and process planning and control on the other: its research in production and logistics takes the entire product lifecycle into consideration, examining the product throughout all processes, in both the digital and real worlds.

