Bremen Research Cluster for Dynamics in Logistics

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Interdisciplinary competence in
Research
Education
Application
Dissemination

**Bremen Research Cluster for Dynamics in Logistics**

LogDynamics conducts research investigating dynamic processes in logistic systems. The strategic objectives pursued by the cluster are:

- Sustainability of fundamental research
- Transfer of research results into the industry
- Education and training on highest level
- International visibility of Bremen’s research in logistics

LogDynamics is a cooperating network of research groups from four faculties of the University of Bremen: Production Engineering, Business Studies/Economics, Mathematics/Computer Science, Physics/Electrical Engineering. Associated partners are: BIBA – Bremer Institut für Produktion und Logistik GmbH and the Institute of Shipping Economics and Logistics (ISL) as well as the Jacobs University Bremen gGmbH.

**International Graduate School for Dynamics in Logistics (IGS)**

The IGS offers outstanding researchers from all over the world a structured doctoral training programme. The research is centred on four topic areas:

- Business models, decision processes and economic analyses of dynamics in logistics
- Holistic interdisciplinary methods for modelling, analysis and simulation of dynamics in logistics
- Synchronisation of material, information, decision and financial flows
- Adaptive and dynamic control methods in logistics

The objective of the IGS is to foster excellence in education and research by pursuing an interdisciplinary and cross-cultural approach to higher education. The curriculum includes individual doctorate projects, disciplinary supervision, scientific mentoring as well as specific trainings in the field of complementary skills.

**Demonstration and Application Centre for Dynamics in Logistics**

The LogDynamics Lab is a platform for researchers and industry to develop and explore advanced technologies for real-world problems in logistics.

On 1,000 square meters of hall space, as well as opportunities and infrastructure for mechanical, electrical and information engineering, the lab is dedicated – among others – to the following topics:

- Mobile technologies, smart products and their use in dynamic and complex logistic networks
- More efficient and safer control methods for logistic processes and systems
- Low-risk and low-cost development and test possibilities of new technologies around logistics

**International Conference on Dynamics in Logistics (LDIC)**

The bi-annual LDIC is an exchange platform for logistic excellence. It provides new approaches to dynamic aspects of logistics and brings together top-class researchers from all over the world.

The conference is concerned with the identification, analysis, and description of the dynamics of logistic processes and networks. The spectrum reaches from the modelling and planning of processes over innovative methods like autonomous control and knowledge management to the new technologies provided by radio frequency identification, mobile communication, and networking.