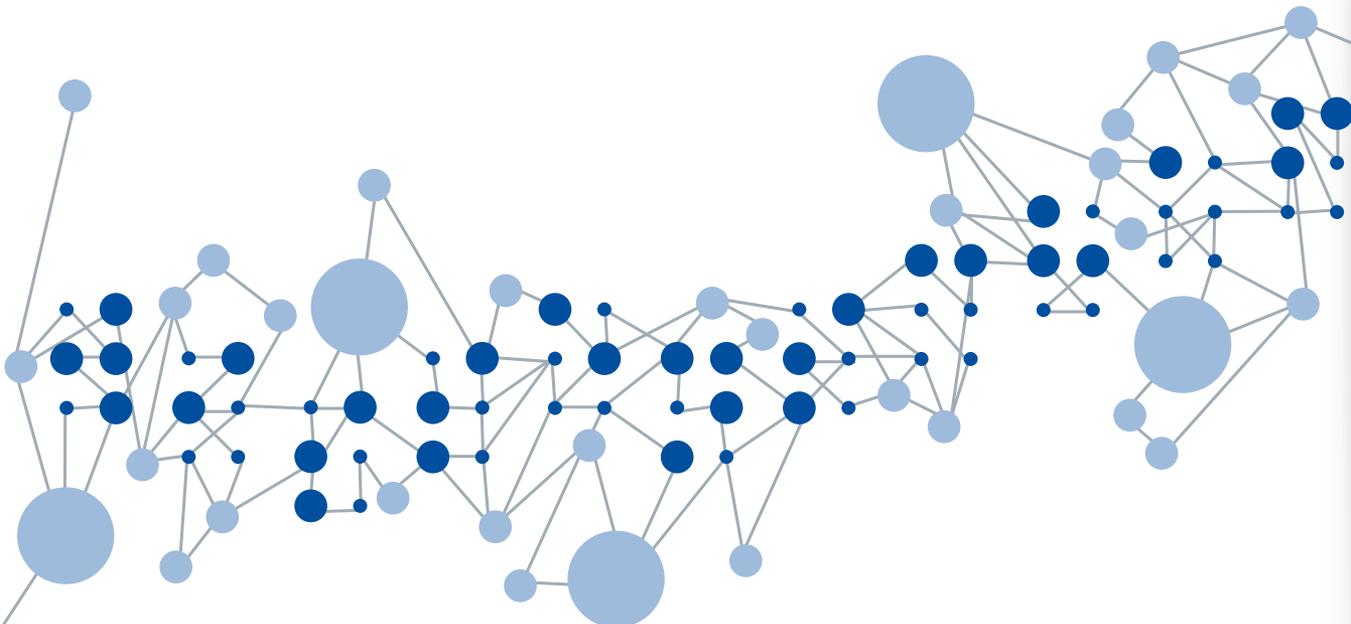
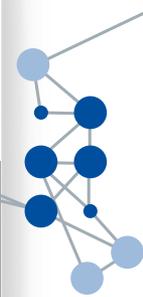


DORTMUND.
ONE CITY. LOTS OF KNOWLEDGE.

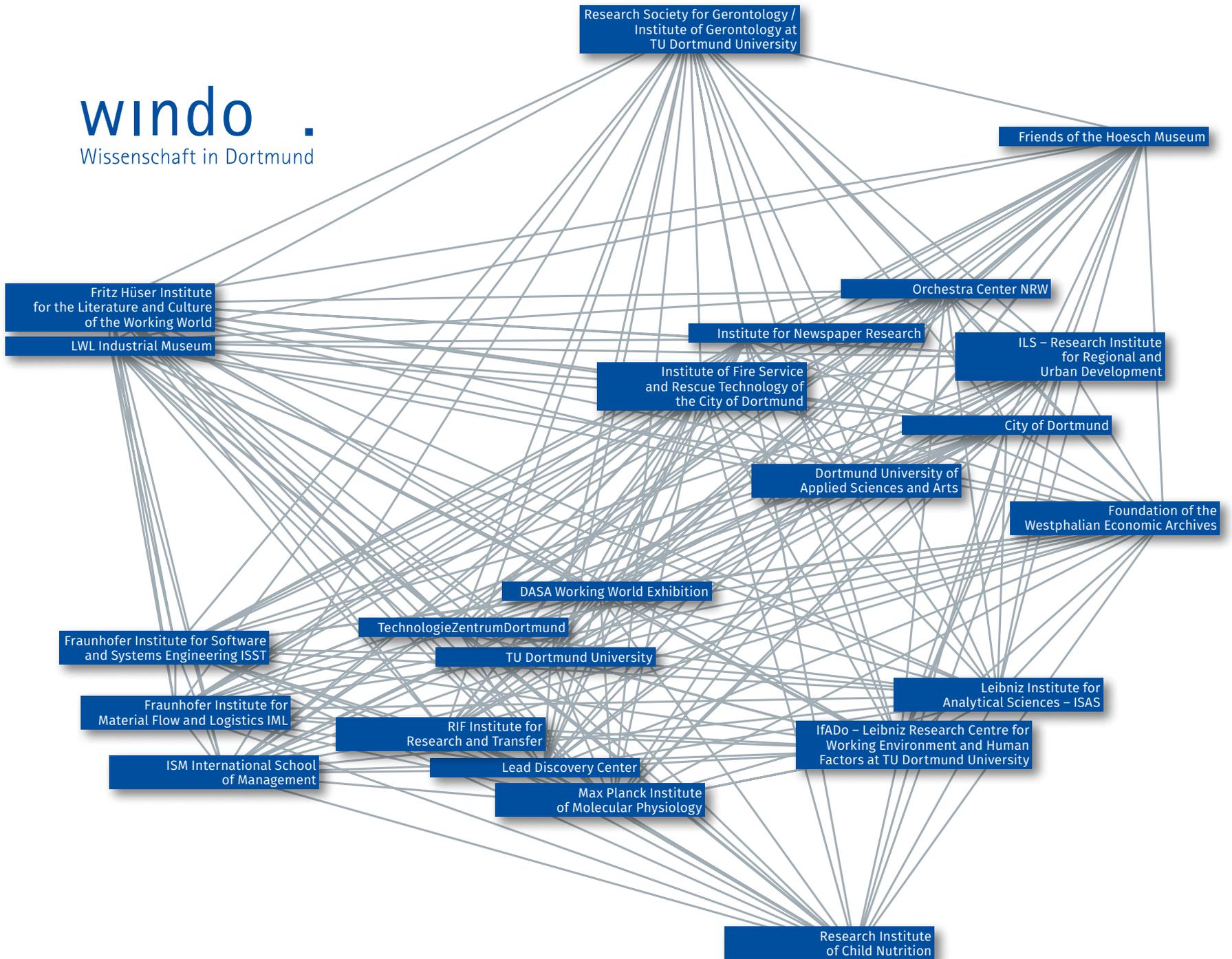


windo .
Wissenschaft in Dortmund



windo .

Wissenschaft in Dortmund





Prof. Dr. Dr. h. c. Ursula Gather, Rector of TU Dortmund University, is president of the *windo e.V.* association

Prof. Dr. Wilhelm Schwick, Rector of the Dortmund University of Applied Sciences and Arts, is vice president

windo e.V., the network of university and non-university academic and research institutions in Dortmund, was founded in 1992.

Dortmund. One city. Lots of knowledge.

With over 50,000 students, more than 10,000 employees, six universities and circa 20 non-university research institutions, Dortmund is one of the university cities with the largest campus areas in North Rhine-Westphalia. Only fifty years ago, this development would have been inconceivable in the former mining and steel-manufacturing city.

Against this historical background, we realize that science and knowledge-based activities have been and continue to be the key drivers of structural transformation, and this awareness determines our actions in working together. Networking and cooperation do not just exist on paper – as in the statutes of our network *windo e.V.* – but are an integral part of day-to-day life for people working in science and academia in Dortmund.

With this brochure we invite you to explore the many successful institutions, projects and plans which characterize Dortmund as a dynamic, knowledge-based location.

Welcome at the Science City of Dortmund!

Prof. Dr. Dr. h. c.
Ursula Gather

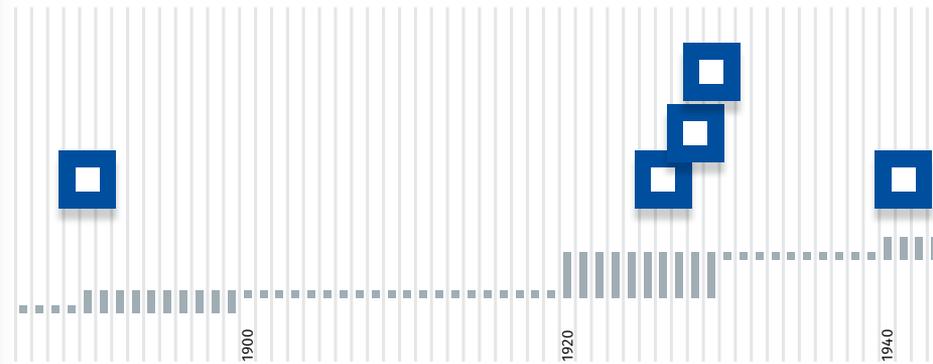
Prof. Dr.
Wilhelm Schwick



Prof. Dr. Dr. h. c. Herbert Waldmann

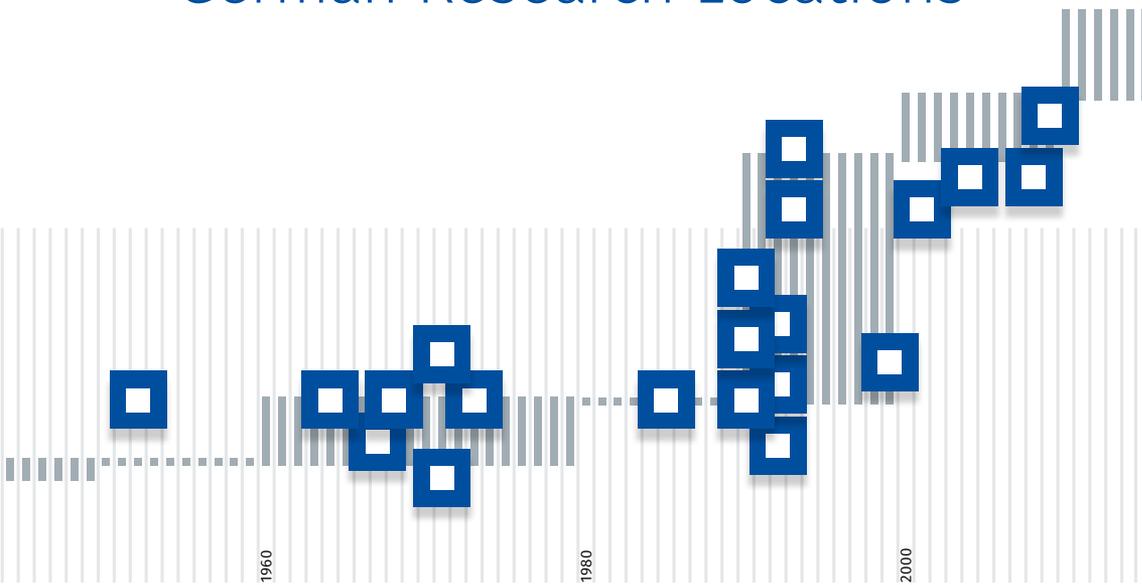
Director at the Max Planck Institute of Molecular Physiology (MPI), professor of Chemical Biology at TU Dortmund University

» Dortmund surprises with its competence and diversity in science. In this dynamic, future-oriented network, the enterprising spirit to start something new is in perfect harmony with the strong values of the region. Especially in drug discovery and logistics, Dortmund ranks among the top locations in Germany and in Europe.



- 1890** Royal Industrial Master School for Mechanical Engineers
- 1926** Institute for Newspaper Research
- 1928** Kaiser Wilhelm Institute for Occupational Physiology, later MPI
- 1929** Pedagogical Academy, later TU Dortmund University
- 1941** Foundation of the Westphalian Economic Archives
- 1952** Institute of Spectrochemistry and Applied Spectroscopy – ISAS
- 1964** Research Institute of Child Nutrition

Science Campus Dynamic Rising Star among German Research Locations



- 1967** IfAdo – Leibniz Research Centre for Working Environment and Human Factors at TU Dortmund University
- 1968** TU Dortmund University
- 1971** Dortmund University of Applied Sciences and Arts
- 1971** ILS – Research Institute for Regional and Urban Development
- 1973** Fritz Hüser Institute for the Literature and Culture of the Working World
- 1985** TechnologieZentrumDortmund GmbH
- 1990** Research Society for Gerontology
- 1990** ISM International School of Management
- 1990** RIF Institute for Research and Transfer

- 1992** Fraunhofer Institute for Material Flow and Logistics IML
- 1992** Fraunhofer Institute for Software and Systems Engineering ISST
- 1992** windo e.V.
- 1993** Max Planck Institute of Molecular Physiology
- 1993** DASA Working World Exhibition
- 1999** LWL Industrial Museum
- 2001** Institute of Fire Service and Rescue Technology of the City of Dortmund
- 2004** Friends of the Hoesch Museum
- 2008** Lead Discovery Center GmbH
- 2009** Orchestra Center NRW

The Dortmund Science and Technology Campus is one of the most recent rising stars among research locations in Germany. The unique dynamics of the campus derive from the common experience of structural transformation and from the endeavor to seek answers to the grand challenges of the future.

Here the continuous transfer of knowledge between universities, institutes, technology centers and companies contributes to the success of many spin-off companies.

Meanwhile, the buildings and facilities of the universities, research institutions and companies in the TechnologieParkDortmund have expanded into a 200-hectare area, conveniently situated west of the city center.

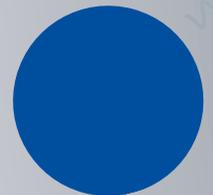
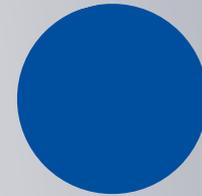


TU Dortmund University is a characteristic element of the Dortmund Science and Technology Campus with 300 professors, 16 faculties and more than 33,000 students.

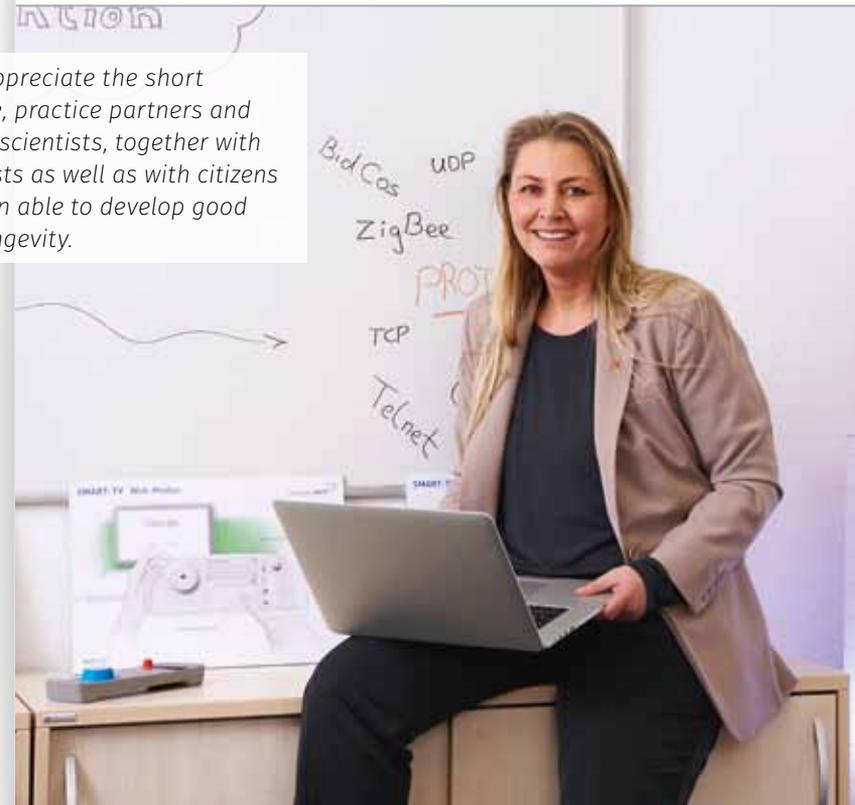
Master Plan Excellent Communication between Science and City

With the master plan for the Science City of Dortmund, the networking of the city and science is being initiated in a strategically exemplary way. The master plan shows in

detail how science, industry and citizens can cooperate for mutual benefit and strengthen the international competitiveness of Dortmund as science location.



» Here in Dortmund I appreciate the short distances between science, practice partners and civil society. We computer scientists, together with social scientists, economists as well as with citizens and institutions, have been able to develop good models for a society of longevity.



Prof. Dr. Sabine Sachweh

*Professor of Applied Software Engineering
in the Department of Computer Science,
Dortmund University of Applied Sciences and Arts*

The Dortmund University of Applied Sciences and Arts (FH Dortmund), which has more than 13,500 students, is one of the largest universities of applied sciences in North Rhine-Westphalia.

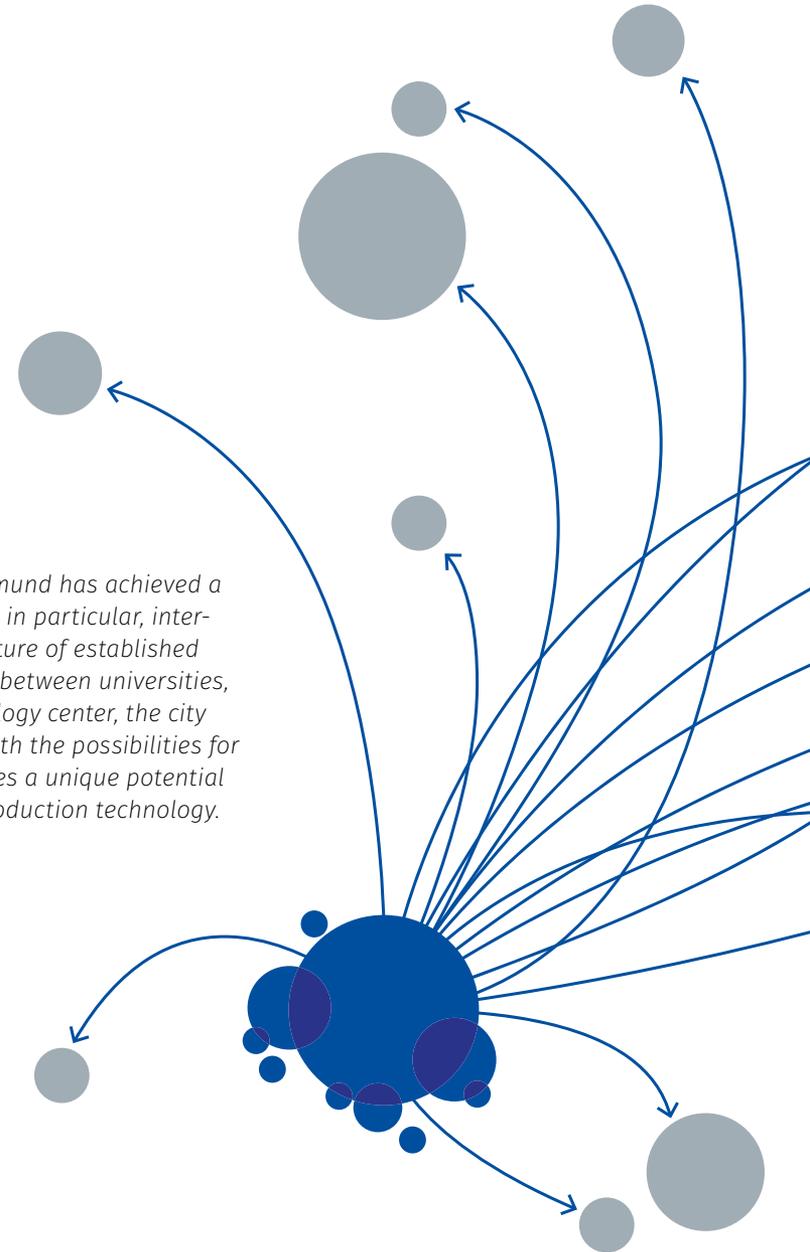
In 2011 the City of Dortmund, TU Dortmund University, the Dortmund University of Applied Sciences and Arts and the TechnologieZentrum Dortmund initiated a broad process involving 120 active participants. In 2013 they signed a commitment to carry out 100 measures by 2020 to implement the jointly conceived and agreed-upon goals.

This nationwide outstanding project was awarded the University Communication Prize for 2015 by the German Rectors' Conference, the Zeit Publishing Group and the Robert Bosch Foundation.

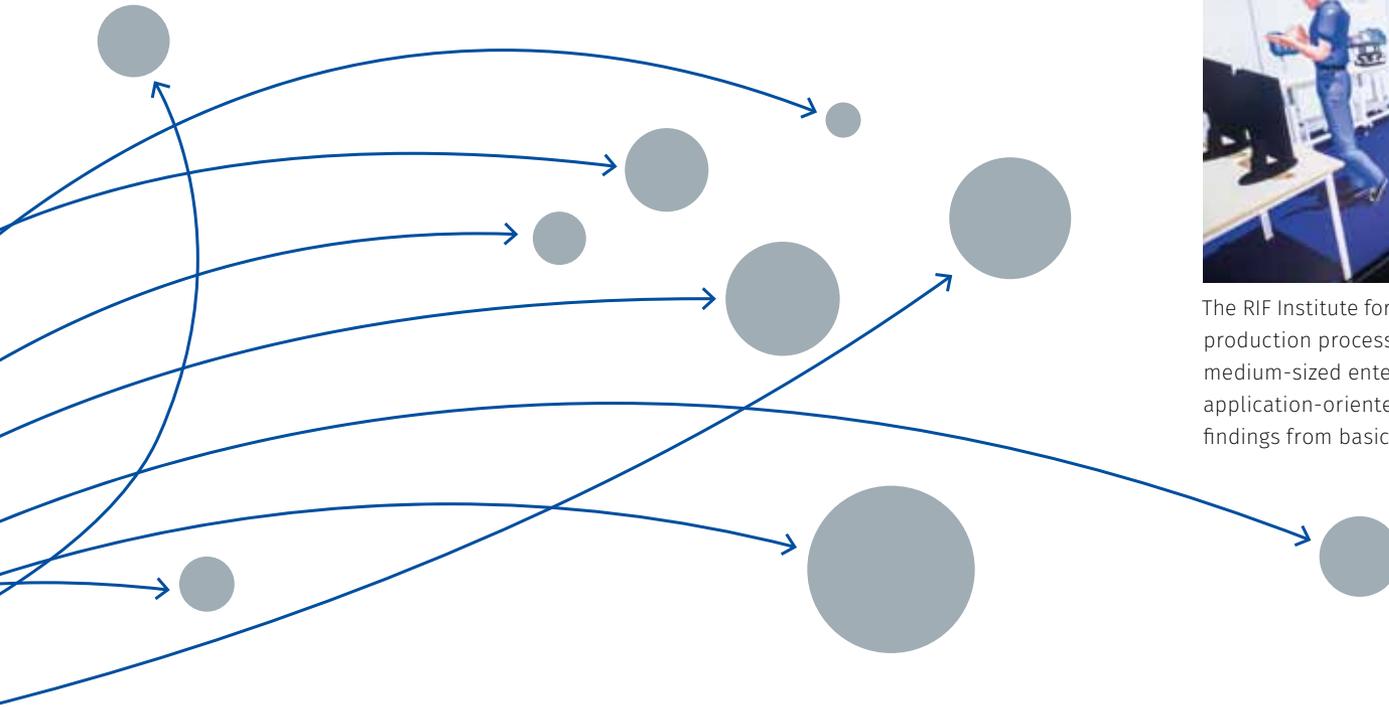


» Production research in Dortmund has achieved a top ranking through diverse and, in particular, interdisciplinary cooperation. The culture of established partnerships and collaborations between universities, research institutions, the technology center, the city and companies in conjunction with the possibilities for cooperation in the region provides a unique potential for the future development of production technology.

Prof. Dr. Dirk Biermann
Director of the Institute of Machining Technology
of TU Dortmund University



Production Technology Transfer – High in Demand Internationally



The RIF Institute for Research and Transfer supports production processes in industry and small and medium-sized enterprises (SMEs) by means of application-oriented further development of new findings from basic research.

The thematic field of production technology has earned an outstanding international reputation far beyond the borders of the science location Dortmund and has for years maintained a top position in nationwide rankings. The Faculty of Mechanical Engineering at TU Dortmund University and the Department of Mechanical Engineering at the Dortmund University of Applied

Sciences and Arts form the scientific core in this field. TU Dortmund University has a special focus in production technology. Here synergies exist between machining technology, forming technology and lightweight construction as well as materials and materials testing technology. The collaboration with researchers in computer science, statistics and mathematics ensures the

success of simulation and prediction. Modern technology centers with virtual and real systems offer industry and SMEs ideal conditions. With more than 600 companies in the production and service network, the Dortmund location ensures the best opportunities for cooperation and fast technology transfer.

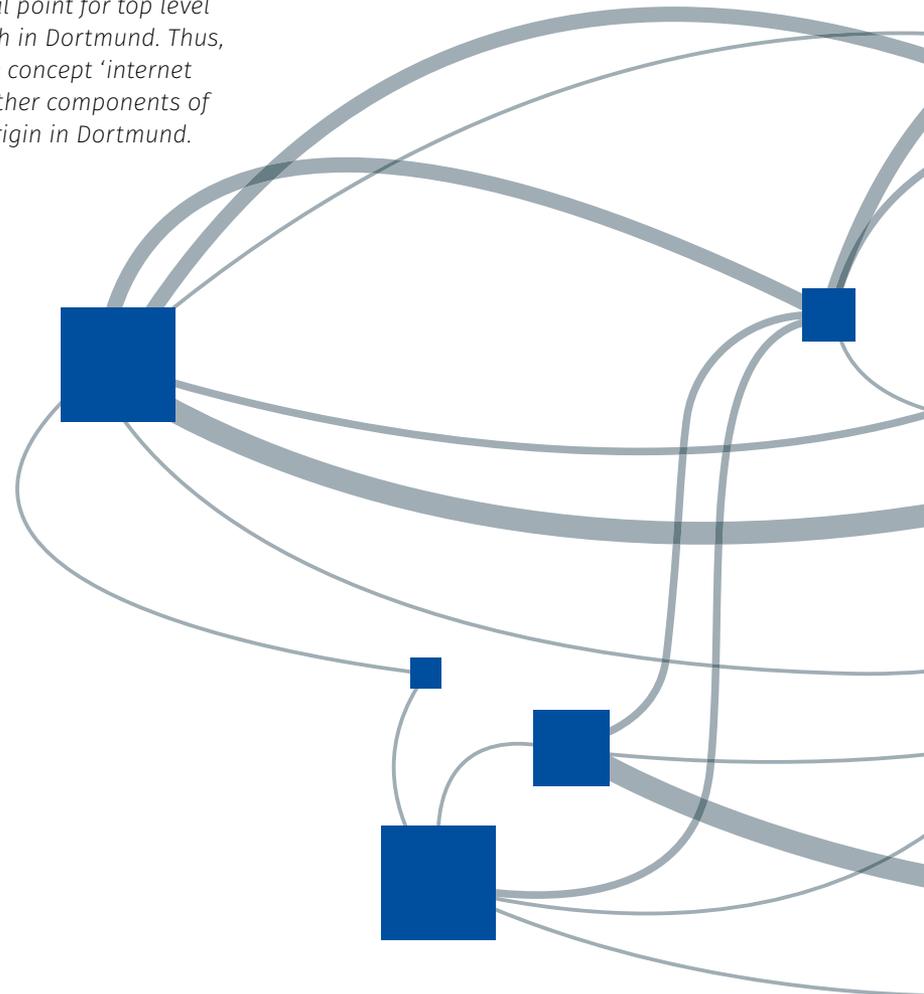


» In addition to well-known logistics companies, large warehouse locations and ideal infrastructure, TU Dortmund University and Fraunhofer IML form a focal point for top level European logistics research in Dortmund. Thus, it is not surprising that the concept 'internet of things' and numerous other components of 'Industrie 4.0' have their origin in Dortmund.

Prof. Dr. Michael ten Hoppel

Professor for Materials Handling and Warehousing at TU Dortmund University and Managing Director of the Fraunhofer Institute for Material Flow and Logistics IML

The Fraunhofer Institute for Material Flow and Logistics IML is Europe's top address for the development and application of innovative logistics solutions for both inside and outside companies.



Logistics Intelligent Agents for the European Economy

Linking production, trade and services, the logistics industry plays a key role in economic development. This is reflected in Dortmund, which is well known worldwide as a center for science, logistics research and technology.

Many research projects are initiated and implemented by the Fraunhofer Institute for Material Flow and Logistics IML, TU Dortmund University and the Fraunhofer Institute for Software and Systems Engineering ISST.

These projects include the Leading-Edge Cluster “EffizienzCluster LogistikRuhr” – currently the largest logistics research project in Europe – which is funded by the Federal Ministry of Education and Research and comprises 180 partner companies and 20 research institutions.

Findings from engineering, economics, computer science, statistics and mathematics converge to fulfil the requirements of logistics. Solutions such as “Industrie 4.0”, “internet of things” or “cloud computing” are key here.

The newly built complex at TU Dortmund University’s Logistics Campus, which opened in 2013, and the Fraunhofer Innovation Center for Logistics and IT are a clear signal confirming the success of Dortmund as a top location for logistics.



Logistics Campus at TU Dortmund University

Scientific Fields

Energy Competence Research Networks in Fields of High Potential

Energy poses a challenge to all of society, and this challenge is being met with an interdisciplinary approach in Dortmund. At the interfaces of energy and information technology, the Competence Center for Electric Mobility, Infrastructure and Networks at TU Dortmund University is conducting pioneering research.



Fully automatic charging station

The key research area of the Energy Research Group at the Dortmund University of Applied Sciences and Arts focuses on energy quality and energy efficiency. Furthermore, the Institute of Communication Technology is exploring how intelligent networked information systems, together with modern sensor and actuator technology, can optimize and bundle decentral-

ized energy systems, industry applications or building automation via the "internet of things". The field of energy economics at TU Dortmund University develops structural options for energy transition. Here there is potential to cooperate beyond the boundaries of individual disciplines, e.g. in economics, the engineering sciences, spatial planning, law and social sciences.



» Digitization offers great potential for new business models in the IT and energy industries. With research, development and education at the universities, we actively introduce these perspectives to electronics and IT companies.



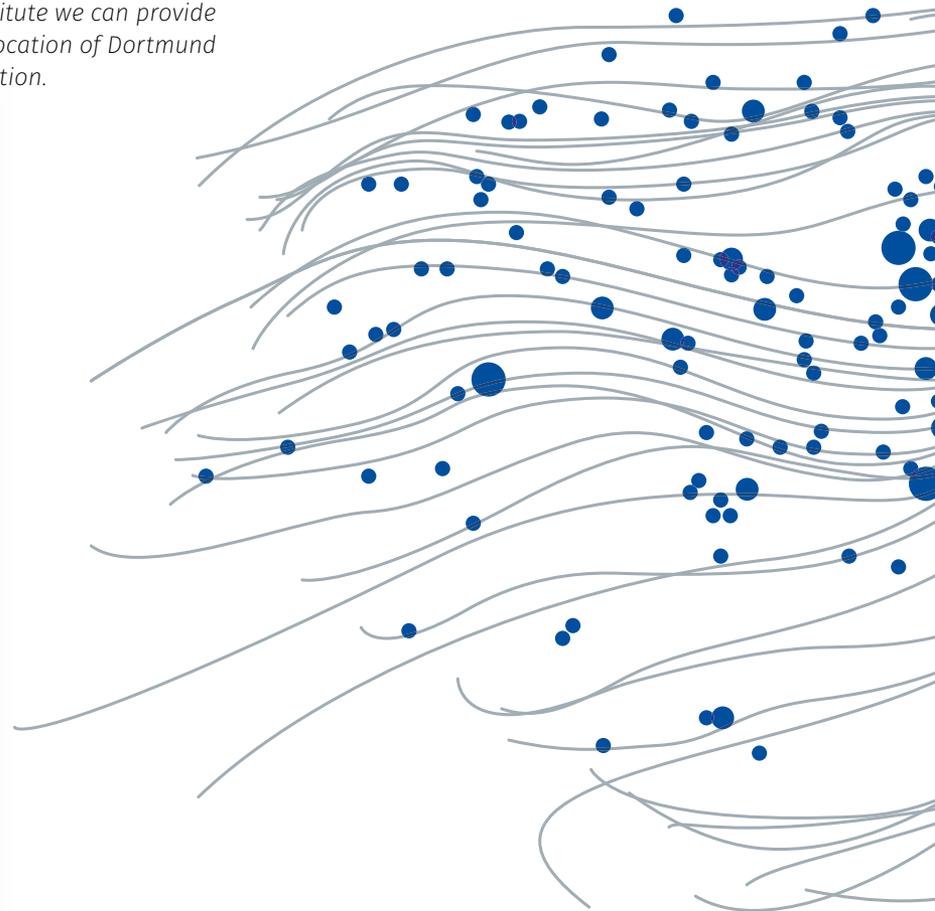
Prof. Dr. Ingo Kunold
Institute of Communications Technology at the Department of Information Technology and Electrical Engineering of the Dortmund University of Applied Sciences and Arts



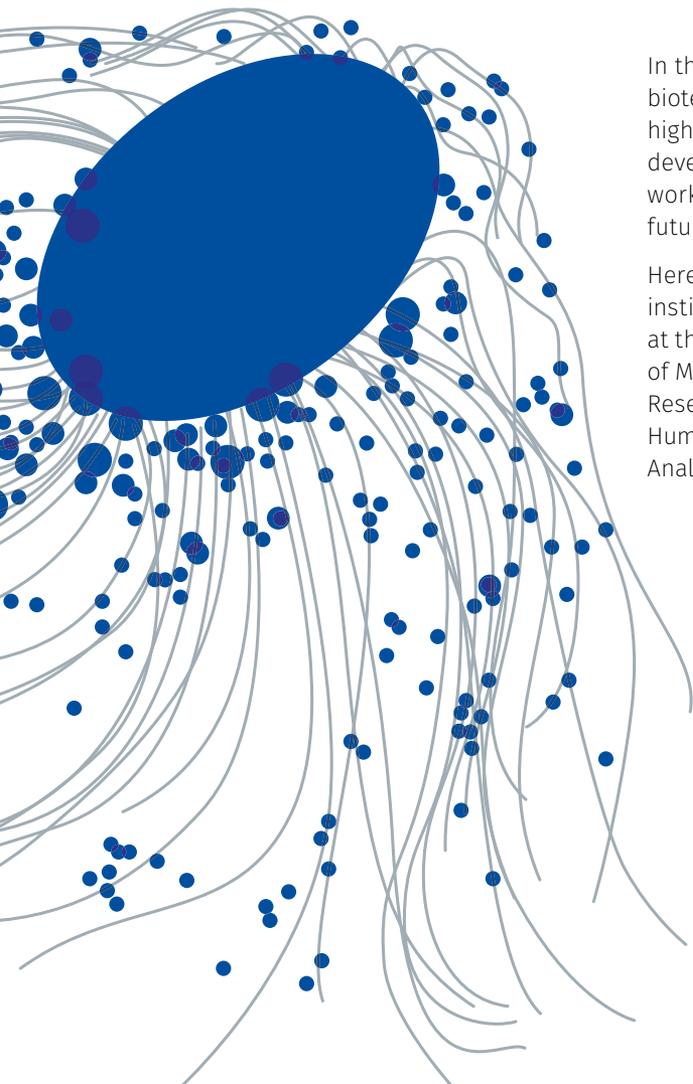
» In line with its scientific mission “From Molecule to Man”, research at the MPI addresses key issues of modern biomedicine. As a leading research institute we can provide impulses for the science location of Dortmund and open doors to innovation.

Prof. Dr. Andrea Musacchio
Director at the Max Planck Institute
of Molecular Physiology

The Max Planck Institute of Molecular Physiology (MPI) is one of the world's leading research institutions in the biological sciences. Here research activities focus on fundamental biological processes such as cell division, signal transduction in cells and the mechanism of action of medically relevant biomolecules.



Biomedicine Innovative Active Substances against Serious Diseases



In the growth sectors of biomedicine and biotechnology, an internationally renowned, high-performance competence network has developed in Dortmund. Overall, 3000 people work, conduct research and study in this future-oriented field.

Here three major non-university research institutions carry out basic biomedical research at the highest level: the Max Planck Institute of Molecular Physiology, the IfAdo – Leibniz Research Centre for Working Environment and Human Factors and the Leibniz Institute for Analytical Sciences – ISAS.

Research at the MPI complements the profile areas of the university. Thus, working in concert, the MPI and the Faculty of Chemistry and Chemical Biology at TU Dortmund University have been able to develop Dortmund into one of the leading locations for drug discovery in Europe.

The Chemical Genomics Centre (CGC), which evolved out of the MPI, and the Lead Discovery Center (LDC) bridge the gap from basic research to application.



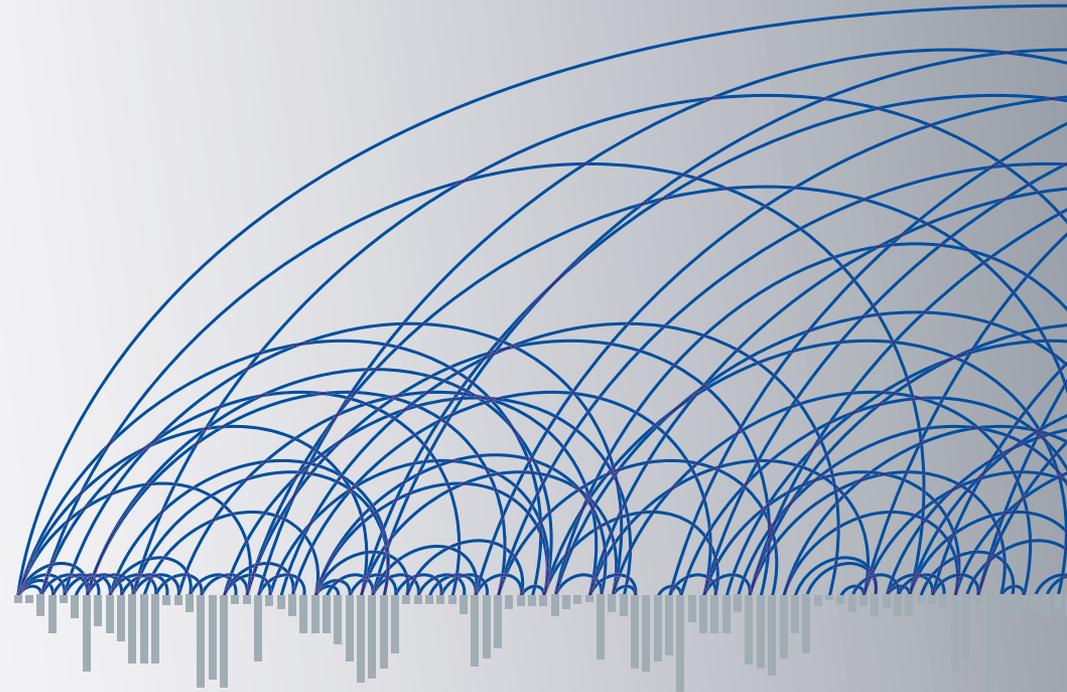
The Lead Discovery Center GmbH (LDC) in the BioMedizinZentrumDortmund takes promising, therapy-oriented research projects in the development of innovative drugs and therapeutic concepts to the next level.

The Leibniz Institute of Analytical Sciences – ISAS develops multiparameter analysis methods for biological materials in order to improve the prevention and early diagnosis of diseases and to enable new therapies.



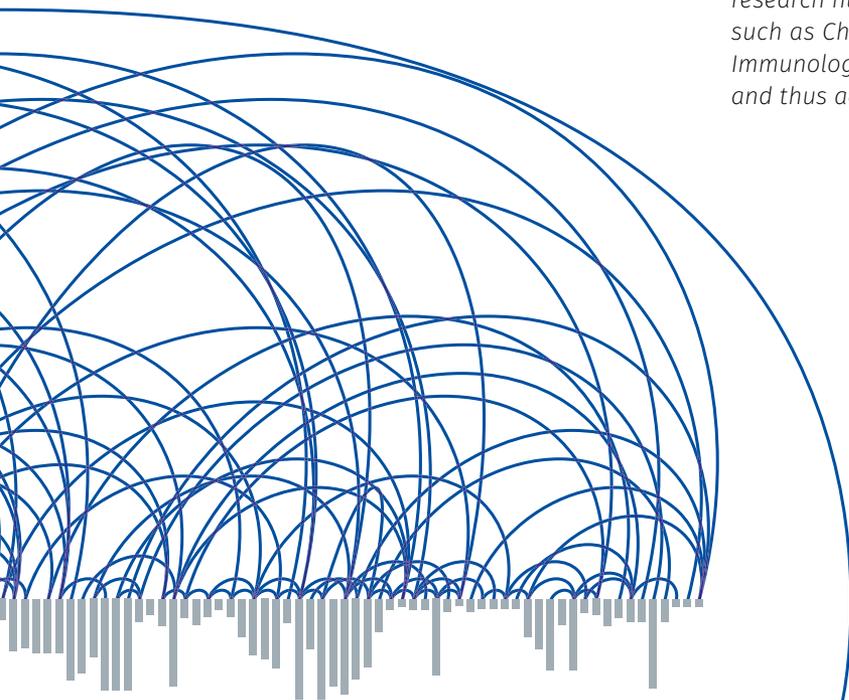
By means of studies and education initiatives in the media, the Research Institute of Child Nutrition, a branch of the University of Bonn, supports preventive child nutrition to promote health into adulthood.

Health Research Specialized Systems for Medical Progress



Information systems that connect the exponential medical progress with the increasing demands of society for quality medical care are the special area of Medical Informatics at the Dortmund University of Applied Sciences and Arts and the Fraunhofer Institute for Software and Systems Engineering ISST. Increasingly,

new medical findings are extracted from Big Data at the Faculties of Computer Science and Statistics at TU Dortmund University. Furthermore, telemedicine is making special knowledge available worldwide and is posing special challenges for research and applications, for instance in data transfer and imaging techniques.



Research in ambient assisted living is promoted jointly by the FH Dortmund, the Fraunhofer ISST and the Federal Institute for Occupational Safety and Health (BAuA). BAuA and IfADo – two of the ten German collaborative centers of the World Health Organization (WHO) – are located in Dortmund.

» Dortmund is an exciting location for the life sciences. Here basic research and applied research nurture each other, and research fields such as Chemical Biology, Drug Discovery, Immunology and Toxicology collaborate closely and thus achieve surprising results.



Prof. Dr. Jan G. Hengstler

Scientific Director of the IfADo – Leibniz Research Centre for Working Environment and Human Factors at TU Dortmund University

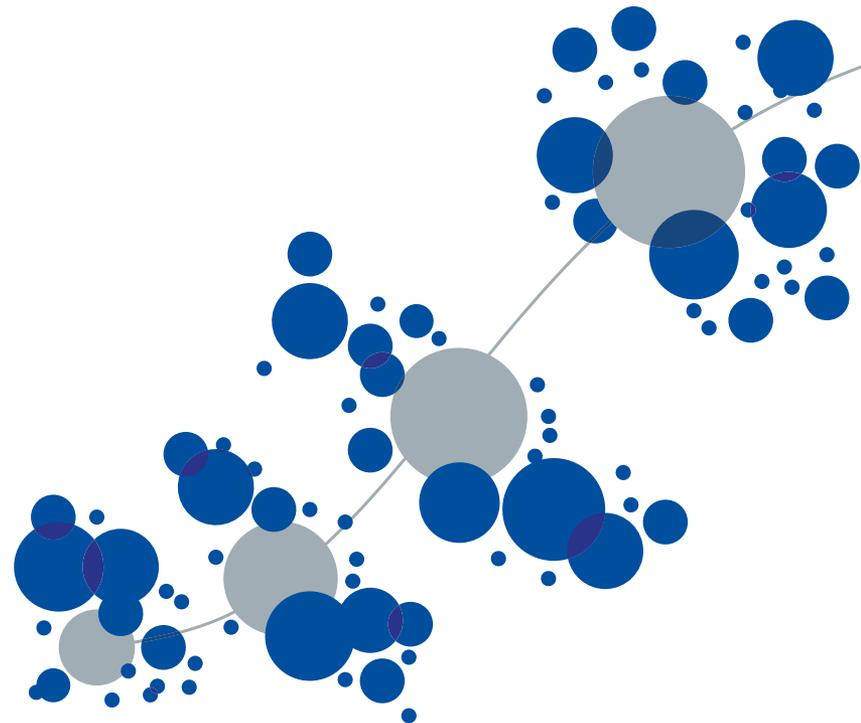
The IfADo – Leibniz Research Centre for Working Environment and Human Factors – explores the potentials and risks of modern work life from the individual cell up to the entire workplace and thus improves work design.



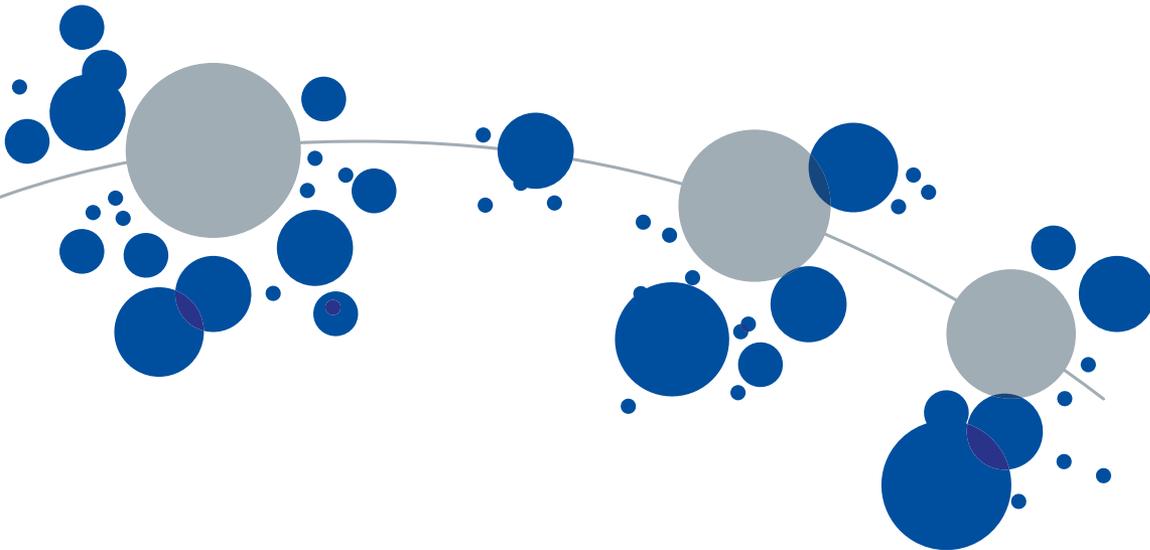
»» *The intensive discussion with colleagues from teacher training is very fruitful for our research. It is helpful that teachers for all school forms in Dortmund are trained here.*

Prof. Dr. Wilfried Bos

Head of the Working Group of Educational Monitoring and School Development Research at the Institute for School Development Research (IFS) at TU Dortmund University



Educational Research Fundamental Insights into Crucial Life Stages



Educational research in Dortmund provides impetus for national and international youth, school and education policy worldwide. The center of activities here is the Institute for School Development Research (IFS) at TU Dortmund University, which for more than a generation has continuously analyzed key data of the education system and has made educational success measurable with highly regarded studies such as PIRLS or TIMSS.

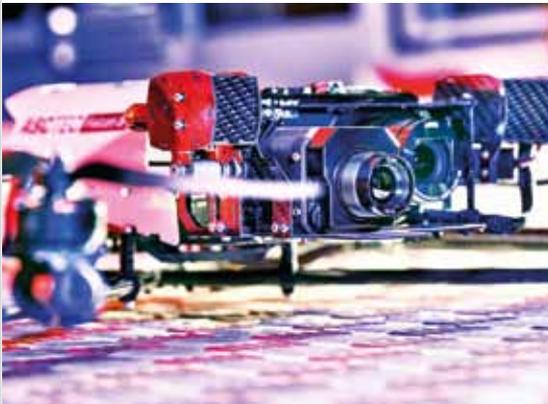
Key issues here are equal opportunity, participation, utilization of individual potential and the control of the underlying processes. Partners around the world and a broad public funding allow a variety of new research approaches. Training institutions such as the German Academy for Educational Executives (DAPF) enhance the diffusion of knowledge in day-to-day education.

The Institute for Newspaper Research is unique in the world due to its extensive collection of historical and current newspapers and magazines and its library with numerous publications on mass communication and journalism.

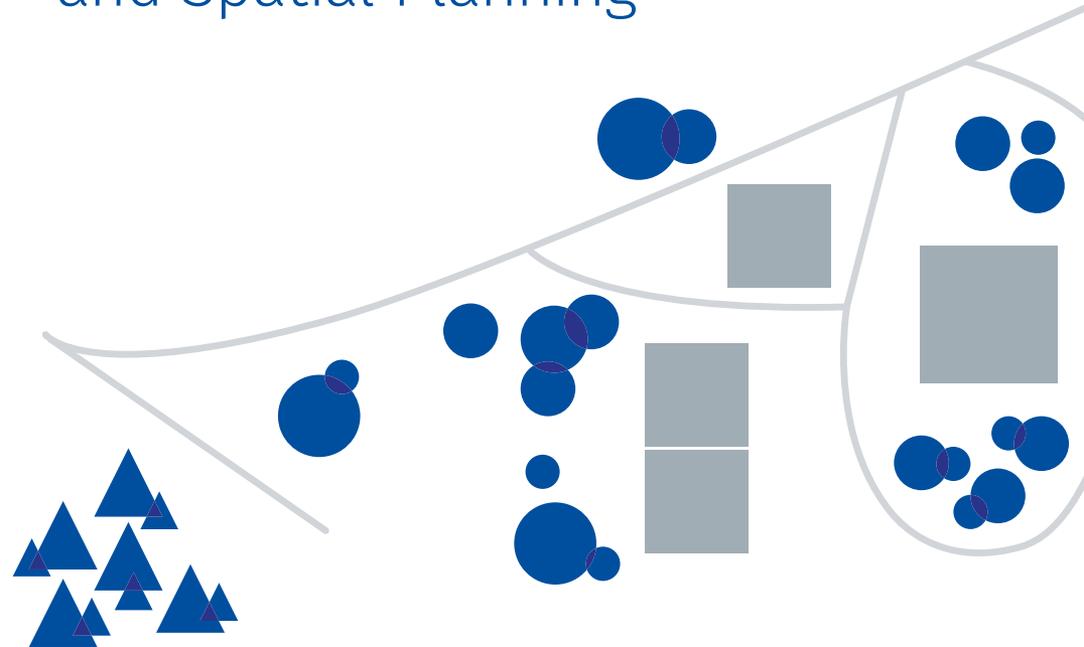


The Fritz Hüser Institute as research institution of the City of Dortmund documents the literary heritage of the industrial region and the themes of work and economics in literature.

Urban Development Constructive Triangle of Architecture, Construction and Spatial Planning

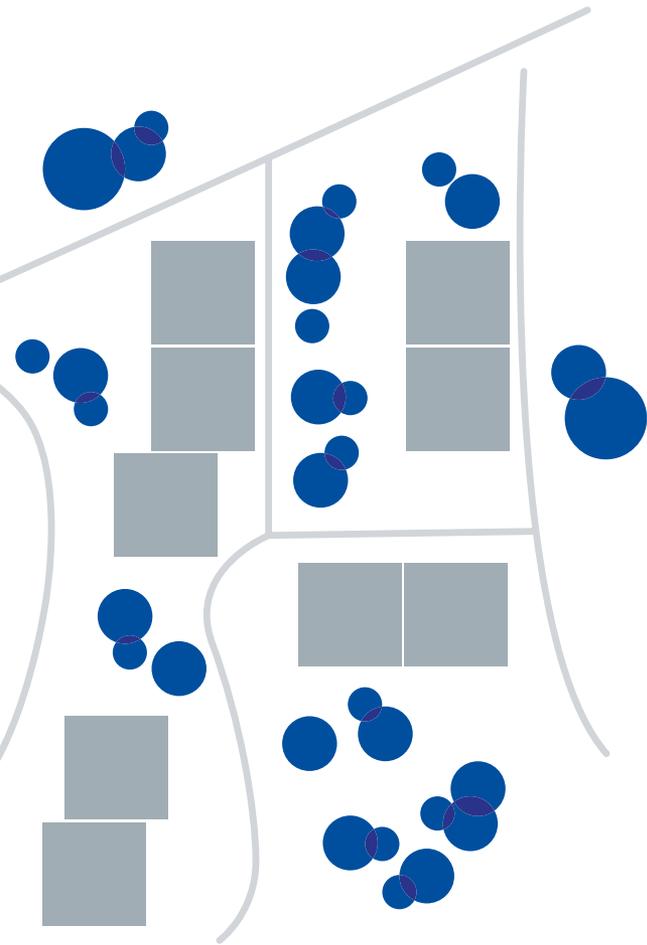


The Institute of Fire Service and Rescue Technology of the City of Dortmund (IFR) monitors and evaluates the testing of new technologies and concepts in national and international security research. Units of the fire department test these innovations such as airborne sensor systems (photo).



The future development of cities has long been on the agenda in Dortmund. Almost a half century ago, long before urbanization was discussed as a megatrend, TU Dortmund University launched a unique initiative with the Faculty of Spatial Planning, which to date is the largest education and training center for spatial planning in Europe.

The combination of architecture and civil engineering in one faculty at TU Dortmund University is unique in Germany. Architecture is also an important focus of the Dortmund University of Applied Sciences and Arts with application-related research fields such as architecture informatics, construction materials technology or structural change.



The ILS – Research Institute for Regional and Urban Development provides regional and international knowledge transfer into the decision-making levels of government, business and society. Not least, the high density of planning offices, institutes and associations in Dortmund is confirmation for this extraordinary specialization on planning and construction topics.

» The highly relevant social issues of urban and spatial research are addressed in the university and non-university institutions of Dortmund with an interdisciplinary approach incorporating a content-related strategic network. The experience and insights gained in this continuous dialogue regarding the structural change from a mining location to a knowledge-based society have also encountered great interest internationally.



Prof. Dr. Stefan Siedentop

Scientific Director, ILS – Research Institute for Regional and Urban Development

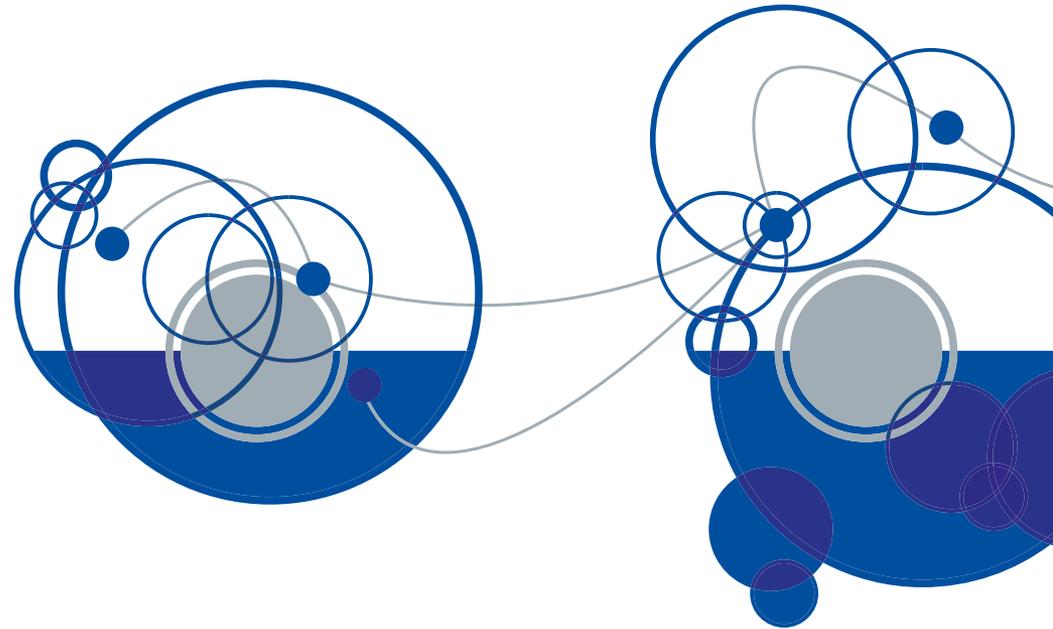
The ILS – Research Institute for Regional and Urban Development, an associate Leibniz institute and member of the Johannes Rau Research Foundation NRW, also advises based on its own basic research in spatial planning regarding the future-oriented development of cities.

The Westphalian Economic Archives (WWA) serves as a regional documentation center for archives from companies, chambers, associations and leaders in business and industry.



The Research Society for Gerontology (FfG) / Institute of Gerontology at TU Dortmund University conducts interdisciplinary, application-oriented research on demographic trends and how we want to live in an aging society.

Social Sustainability Central Issues Facing Humanity in the Cross Section of Science

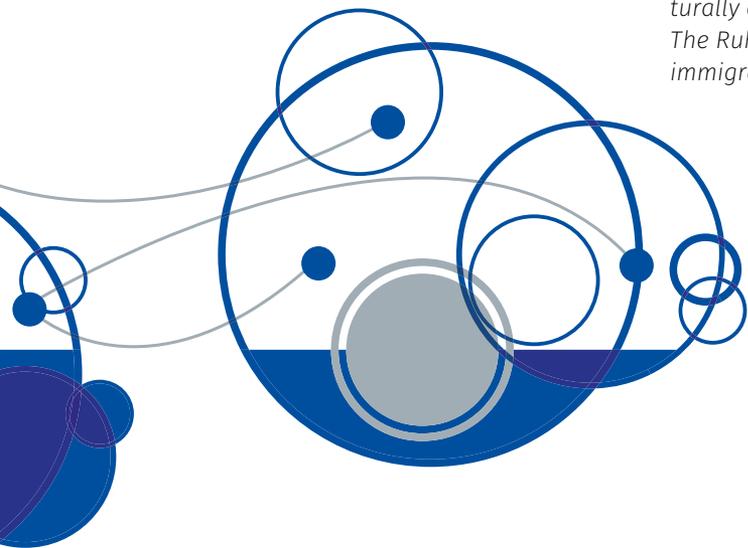


Evolving out of tradition and the structural transformation of the Ruhr area, Dortmund is establishing itself as a center of scientific competence on issues of social sustainability.

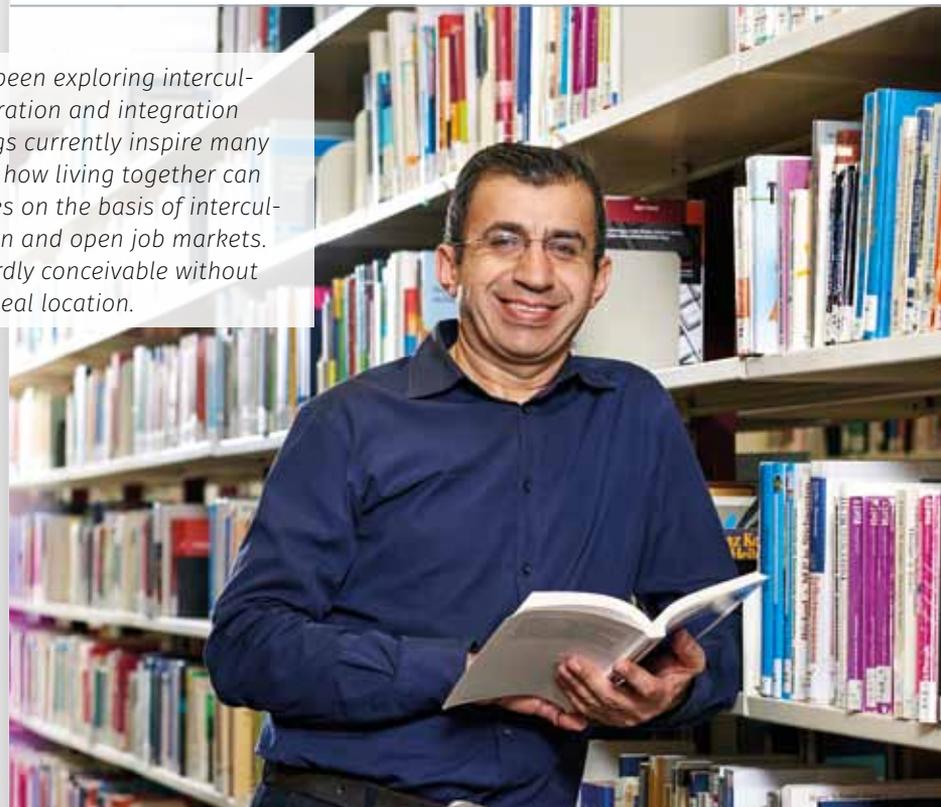
Alternative models of prosperity, the creation of safe and healthy work environments, social participation and climate protection issues,

which are closely related to issues of justice between present and future generations, are prominent research fields.

The IfADo – Leibniz Research Centre for Working Environment and Human Factors, the Social Research Center Dortmund at TU Dortmund University and the Department of Applied



» In Dortmund we have been exploring intercultural issues related to migration and integration for many years. Our findings currently inspire many people because they show how living together can succeed across all identities on the basis of interculturally competent education and open job markets. The Ruhr area, which is hardly conceivable without immigration, is for us an ideal location.



Prof. Dr. Ahmet Toprak

Professor of Educational Sciences in the Department of Applied Social Sciences of the Dortmund University of Applied Sciences and Arts

Social Sciences at the Dortmund University of Applied Sciences and Arts, among other institutions, are contributing to this cross-sectional field of the master plan for the Science City of Dortmund under the coordination of the Federal Institute for Occupational Safety and Health.



» Technology transfer works outstandingly well in Dortmund – a clear indicator is its successful transformation from an industrial city to a technology metropolis. A results-driven, synergy-generating network of science and industry has ensured that Dortmund holds a top international position in the league of technology-intensive locations.

Guido Baranowski
Managing Director of TZDO
TechnologieZentrumDortmund GmbH

The TechnologieZentrumDortmund TZDO is one of the leading technology centers in Europe and is a model for successful technology transfer.



Transfer Successful Hub with High Practical Relevance



Attractive location: aerial photos (1983/2015) document the transformation of the TechnologieParkDortmund.

The transfer of research results is implemented in an exemplary way in Dortmund. The close connection to the Science and Technology Campus is the most important location factor for start-ups and established companies. The TechnologiePark covers 40 hectares of the Science and Technology Campus. As one of the largest technology parks in Europe, it offers development potential for almost 350 companies.

Its nucleus is the TechnologieZentrumDortmund TZDO. It is the first address for knowledge-based companies and start-ups from the environment of universities and institutes in Germany. TZDO serves as a magnet and hub for growth industries. These include information technology, logistics, biomedicine, bioinformatics as well as microsystems technology, nanotechnology, production technology and manufacturing technology.

The 30-year success story of TZDO is substantiated by impressive statistics: The gross regional domestic product meanwhile amounts to approximately EUR 1.7 billion. More than 10,000 jobs for highly qualified employees have been created locally; regionally a total of 23,000 jobs are closely linked to the development of the local companies.



The Fraunhofer Institute for Software and Systems Engineering (ISST) designs and develops IT solutions for distributed, complex and interacting IT systems for healthcare, logistics and industry.

University Studies A Wide Range of Programs for Individual Career Goals



The Orchestra Center NRW prepares students for a position in a professional orchestra. The study program encompasses individual lessons in all orchestra instruments, mock auditions, sectionals, orchestral studies, analyses of specific works and ensemble playing.

The plethora of study programs in Dortmund leaves hardly anything to be desired. More than 50,000 students take advantage of the excellent academic opportunities. Around two thirds are enrolled in one of the 80 study programs of TU Dortmund University. More than 1,700 members of the teaching staff, including circa 300 professors, ensure education in traditional, innovative and sometimes unique subjects such as spatial planning, rehabilitation sciences, bioengineering or music journalism.

The Sonnenstraße Campus of the Dortmund University of Applied Sciences and Arts is located in the city center. Here are the offices of the rectorate and the administration, the departments of Mechanical Engineering, Computer Science and Electrical Engineering as well as many points of contact for students.



Furthermore, 13,500 students benefit from the practice-related study programs of the Dortmund University of Applied Sciences and Arts, which are especially application oriented in architecture and design, information technology and electrical engineering, computer science, mechanical engineering, social sciences and economics.

Four other institutions of higher education including the ISM International School of Management complete the spectrum of study programs in Dortmund. Each year around 250 young researchers earn their doctorate at TU Dortmund University, which can also be a cooperative doctorate with the Dortmund University of Applied Sciences and Arts.

The International School of Management is a state accredited, non-profit, private university with an enrollment of about 850 students on the Dortmund Campus.



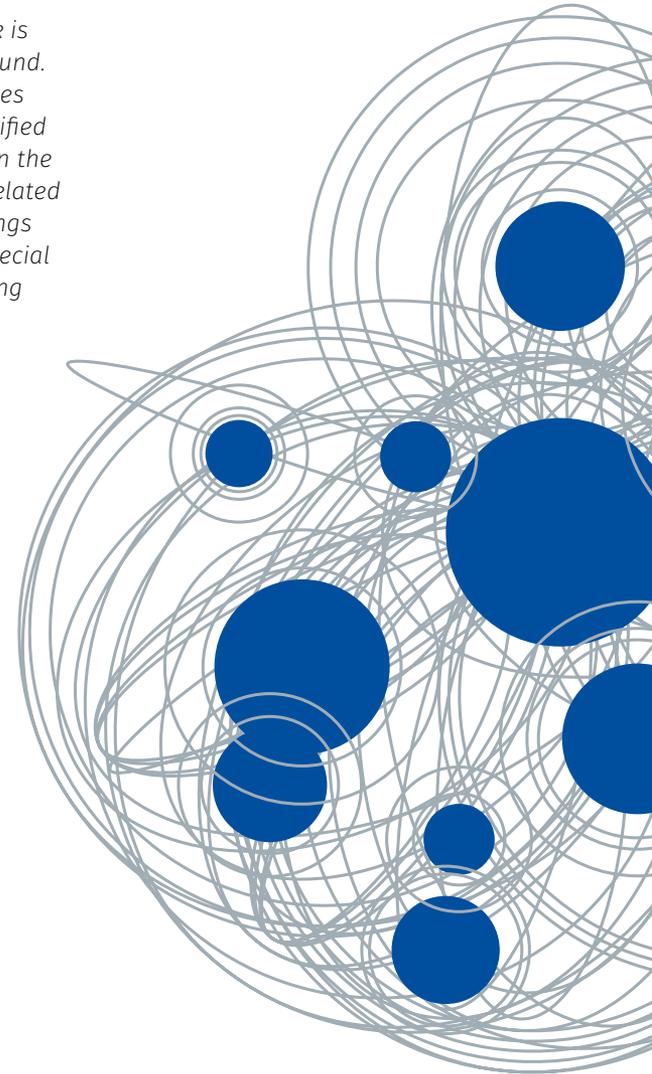
As Europe's first multi-university training center, the Orchestra Center NRW is jointly run by the music academies of North Rhine-Westphalia and prepares young musicians for their careers.



The Biotechnology Training Network is a gain for the science location of Dortmund. Together we can recruit and train trainees to become urgently needed, highly qualified specialists and also offer participants in the programs a challenging and research-related training. Furthermore, the initiative brings together the scientific expertise and special technical competence of the participating research institutions.

Alice Kasprzyński

Director of Training of the Biotechnology Training Network at the Max Planck Institute of Molecular Physiology



Career World **New Focus** on Jobs and Traineeships

The world of work is in transition. Nowhere else is this more evident than in Dortmund. Mining can be found only in the museum. The DASA exhibition shows the transformation of the professions – and many new types of jobs have been created in the companies and institutes in the city. About 60 percent of the university graduates take a job in the region after earning their degrees. Moreover, in the vocational

training programs, access has been opened up to new future-oriented fields. In the field of biotechnology, three research institutes – the MPI, IfADo and ISAS – have joined together with TU Dortmund University to create a training network. The MPI not only initiated but also coordinates this innovative training opportunity and furthermore is head of the examination committee of the Chamber of Commerce.



Life in Dortmund **Urban** Magnet for Dual Career Paths

What good is it in the long run to have the best scientific career perspective if the family does not “go along”? As the eighth largest city in Germany with 600,000 inhabitants, Dortmund’s diversity and variety are convincing factors in the competition with other European science locations.

Whether you are seeking an urban atmosphere or nature, culture or art, leisure or sports, the opportunities for activities, excursions or shopping in the fifth largest metropolitan region of Europe are hard to beat. Furthermore, attractive, family-friendly housing near the workplace is available and affordable here.



The LWL Industrial Museum presents the turbulent social and cultural history of the Ruhr mining area in the former Zollern colliery, often called the “Mansion of Labor”.



Dortmund City Center

»» *For me as a chef in a top restaurant, the dual career support was very helpful in rapidly finding a high-quality position in Dortmund. My husband's acceptance of an appointment as professor in Dortmund furthered both of our careers.*

In the competition for new research talent, windo e.V. has launched the Network for Dual Career Couple Navigation. It ensures that the spouses or partners of new hires with high potential in research can be offered a career perspective. Together with the companies in the network, the city with its department of municipal business development and the employment agency, several dual job matches could be achieved in recent years.



Antonia Kuzmin

Chef in a top restaurant

Prof. Dr. Dmitri Kuzmin

Faculty of Mathematics, TU Dortmund University

Events Stimulating Dialogue between Science and Society

Ivory towers are nowhere to be found in the Science City of Dortmund. Instead, each year hundreds of events, forums and networking meetings take place at both the traditional and the futuristic venues of the city, for example in the universities' floor on the Dortmund U-Tower, providing a stimulating dialogue about the current and future role of science in society.

A regular highlight is Science Day, which is popular far beyond the city borders. Under the slogan "Science Live", the Dortmund institutes and universities and the science-related companies and cultural institutions offer joint excursions and expeditions. Guests from Dortmund and the entire region go on various bus tours to experience where and



The DASA is Germany's largest exhibition on the world of work. In exciting permanent and special exhibits visitors are invited to experience the changing world of work.



The association "Friends of the Hoesch Museum" commemorates the eventful history of a city, which for more than 160 years was an important location for steel production and processing.

how research takes place. This event is financially supported by the Dortmund Foundation and organized by the City of Dortmund together with windo e.V.



KinderUni in the city church of St. Reinoldi



"Keeping Your Back Healthy" is a popular topic at the Dortmund Science Day.

City of Dortmund

Friedensplatz 1, 44135 Dortmund
Phone +49 (0)231 50 - 0
www.dortmund.de

DASA Working World Exhibition

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Did you recognize the title picture?
It shows the word “Wissenschaft” (German word for “science”) in Braille.

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