



SAXONY-ANHALT

Investment and
Marketing Corporation

INNOVATION LOCATION SAXONY-ANHALT



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In the land of early risers



“Innovations are the catalyst for growth and employment. That is why the land supports local companies in their striving for new products, services and procedures.”

Dr. Reiner Haseloff, Minister for Economic Affairs and Employment of the Federal Land of Saxony-Anhalt, representative of the land in the area of innovation

SAXONY-ANHALT – A TRADITION OF INNOVATIONS

In Saxony-Anhalt, research and innovation have a long tradition. People from the land of early risers have always got important developments off the ground:

- ▶ The first color film in the world – produced in Wolfen.
- ▶ The rubber sythethis – successful for the first time in Buna.
- ▶ The first synthetic plastics – produced in Leuna.
- ▶ The first all-metal airplane in the world – built at Junkers in Dessau.
- ▶ The production of chilled casting – invented at Gruson in Magdeburg.
- ▶ Renowned plant breeding – for more than 100 years established in the Northern Harz region / Börde

Based on the tradition in science, research and industry, innovative centers have developed in Saxony-Anhalt that are leading in their areas.

For example, the Harz region has made a name for itself in the casting industry. By 2015, it is intended that the best cast aluminum in the world will be produced here. In the Solar Valley, a crystallization and material analysis center, the Fraunhofer-Center for Silicon Photovoltaics (CSP), is being developed in Southern Saxony-Anhalt, at which specific research and development of silicon material will be carried out.

The automotive supplier and photovoltaics industry are two important drivers for the innovation location of Saxony-Anhalt. Furthermore, science and industry, among others in the plastic sector, in the area of new materials, brain research, medical technology, bioengineering, virtual engineering and in the area of renewable energies provide for an active innovation development in Saxony-Anhalt.

SAXONY-ANHALT INNOVATIVE – SCIENCE AND RESEARCH INFRASTRUCTURE OVERVIEW

Universities and universities of applied sciences with active transfer platforms and internationally recognized non-university research facilities characterize the science and research location Saxony-Anhalt.

University

- ▶ Otto-von-Guericke University Magdeburg
- ▶ Martin Luther University Halle-Wittenberg with excellency focal points, such as:
 - ▶ Automotive
 - ▶ Dynamic systems
 - ▶ Brain science
 - ▶ Nanostructured materials
 - ▶ Structures and mechanisms of biological information processing

Universities of applied sciences (FH)

- ▶ University of Applied Sciences (FH) of Anhalt
- ▶ University of Applied Sciences (FH) of Merseburg
- ▶ University of Applied Sciences (FH) of Magdeburg-Stendal
- ▶ University of Applied Sciences (FH) of Harz
- ▶ College for Arts and Design, Halle (Saale)

International competitive non-university research facilities with the following focal points: Plant and environmental research, brain research, material research, technical processes, virtual reality, economic and agricultural research.

- ▶ 2 institutes of the Fraunhofer-Gesellschaft and three Fraunhofer Centers
 - ▶ Fraunhofer Institute for Factory Operation and Automation (IFF) with the Virtual Development and Training Centre (VDTC) Magdeburg
 - ▶ Fraunhofer Institute for Mechanics of Materials, Institute Unit Halle (Saale) (IWM) with the
 - ▶ Fraunhofer pilot plant for polymer synthesis and polymer processing (PAZ) at Schkopau
 - ▶ Fraunhofer Centre for Silicon Photovoltaics (CSP) Halle (Saale)

- ▶ 3 facilities and 1 research center of the Max-Planck-Gesellschaft
 - ▶ Max-Planck Institute for Microstructure Physics, Halle (Saale)
 - ▶ Max-Planck Institute for Dynamics of Complex Technical Systems, Magdeburg
 - ▶ Max-Planck Institute for Social Anthropology, Halle (Saale)
 - ▶ Enzymology of Protein Folding Research Centre of the Max Planck Society, Halle (Saale)
- ▶ 5 institutes of the Leibniz Association
 - ▶ Leibniz Institute of Plant Biochemistry (IPB), Halle (Saale)
 - ▶ Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Gatersleben
 - ▶ Leibniz Institute for Agricultural Development in Central and Eastern Europe (IAMO), Halle
 - ▶ Leibniz Institute for Neurobiology (IfN), Magdeburg
 - ▶ Halle Institute for Economic Research (IWH)
- ▶ Helmholtz Centre for Environmental Research (UFZ), Halle (Saale) and Magdeburg
- ▶ The German Academy of Sciences Leopoldina, based in Halle (Saale)



Otto-von-Guericke University Magdeburg



1 *E-welder at FAM Stahlbau, FAM – Magdeburger Förderanlagen und Baumaschinen GmbH*
 2 *Dr. Demuth, Probiodrug AG in Halle (Saale)*



INNOVATIONS WITH SYSTEM – THE INNOVATION STRATEGY OF SAXONY-ANHALT 2013

In Saxony-Anhalt, innovation and technology politics are rated very highly. With the Innovation Strategy of Saxony-Anhalt 2013, the Land Government has put together a package that reflects the current challenges for the innovation system and submits specific solution suggestions.

The goal: Boosting innovations, 8 strategic guiding principles

- ▶ Expanding existing innovation focus and acting on new topics
- ▶ Perfecting innovation-oriented infrastructure and supporting established work structures (cooperations, networks, cluster approaches)
- ▶ Strengthening and stabilizing contributions of universities and universities of applied sciences and non-university research facilities as innovation and economic factors
- ▶ Improve processes in the knowledge and technology transfer
- ▶ Training skilled workers specifically for requirements of the industry and further qualifying them
- ▶ Support and strengthen innovative knowledge-based business formations during the launch phase (www.egoinnovativ.de)
- ▶ Further developing inter-agency integrated use of land funding
- ▶ Continuing interlocking of land funding with federal government competitions and specifically using EU funding

INNOVATION STRATEGY ONLINE

For the complete Innovation Strategy of Saxony-Anhalt 2013, please see:

www.invest-in-saxony-anhalt.com



1



2

1 Oliver Wienert, visualization expert at the Fraunhofer IFF moves through the virtual-interactive model of a biomass heating plant via joystick, Fraunhofer VDTC-Virtual Development and Training Centre in Magdeburg

2 Final assembly of a robot for an automation plant, Laempe & Mössner GmbH in Barleben

The method: Selected measures

Promoting innovation

- ▶ Promotion of R&D: from non-repayable or limitedly repayable grants and low-interest loans to contribution of capital during the phase of the market launch of innovations
- ▶ Promotion of joint projects between the industry and science
- ▶ Promotion of personnel exchange of science into the industry

www.ib-sachsen-anhalt.de, www.goodvent.de

Improve knowledge and technology transfer

- ▶ Development of project-related cooperation by targeted support of the regional and supra-regional cooperation between businesses, universities and application-oriented research facilities, promotion of projects of cooperation, network and cluster management
- ▶ Expansion of the KAT network (KAT= Competence network for applied and transfer-oriented research) by including the universities and by utilizing more coordination with the industry and trade chambers and cluster managements
- ▶ Promotion of different forms of personnel exchange between science and the industry (coordinated support with EFRE/ESF funds) (EFRE = European fund for regional development, ESF = European social fund)
- ▶ Support of innovation management in small and medium-sized companies to enable transfer

Secure demand for skilled workers

Support of training and further education, measures against the migration of young skilled workers:

- ▶ Internships, business grants, coaching of undergraduates
- ▶ Measures for the return of skilled workers (www.pfiff-sachsen-anhalt.de)
- ▶ Measures for the work / life balance
- ▶ Support of alumni networks with ESF funds
- ▶ University marketing to improve application situation
- ▶ Winning over students and graduated students from Central and Eastern European countries

TAILWIND FOR THE NEW – PROGRAMS FOR RESEARCH, DEVELOPMENT AND INNOVATION PROMOTION

In Saxony-Anhalt, research development and innovation receive particular support. The country promotes innovative activities of the industry and science in the current EU support period with a variety of programs.

- ▶ Individual-business research, development and innovation support and promotion of joint projects of the industry in connection with scientific research facilities
- ▶ Promotion of projects of the transfer of knowledge and technology
- ▶ Allowances for the employment of innovation assistants and to promote personnel exchange
- ▶ Promotion to protect and utilize inventions
- ▶ Promotion of consulting services to balance deficits in innovation management
- ▶ Consulting services and supporting measures for the integration of businesses into European projects

- ▶ Targeted use of R&D funds specifically within the scope of company acquisitions to increase the settling of businesses with internal R&D activities

www.ib-sachsen-anhalt.de

SUPPORT OF INNOVATIVE BUSINESS FORMATIONS

- ▶ The program 'ego.-innovativ' focuses on innovation and growth-oriented business formations, especially from university and research facilities.
- ▶ Specific support is provided to the university founder networks and other projects for the promotion of innovative formations (UNIVATIONS, IMPULS, Business Planning competition, Business Angels network of Saxony-Anhalt, HEE; SCIDEA, project EAST – EurAsia.Science.Transfer).
- ▶ In addition, the land supports entrepreneurial self-employment in accordance with specific promotion guidelines and a mezzanine loan (ego. PLUS).

Further information on the promotion of innovative business formations: www.ego-on.de and on the foundation offers of IB: www.ib-sachsen-anhalt.de/sites/gruender.html



SUCCESS STORY

Jana Görs, manager of Zephram GbR, Magdeburg, had the courage. In January 2006, as an Otto-von-Guericke University graduate, she founded the idea factory Zephram together with a fellow student and a professor. Companies like BASF and Siemens use the successful business idea of the young entrepreneur to generate ideas for innovative products and applications. The founder team was supported by the egoINNOVATIV partners impulse network, Business Planning competition and Business Angels network Saxony-Anhalt – co-financed by the European social fund.

THIS IS WHERE THE SUN RISES – CENTER FOR PHOTOVOLTAICS- INDUSTRY AND RESEARCH



Solar field in the Solar Valley

Central Challenge:

- ▶ Network parity for power from photovoltaic systems in Germany by 2015
- ▶ Research and development to maintain the scientific-technological edge

Building up an innovation-oriented infrastructure with over 170 million euros

- ▶ Top cluster initiative “Solar Valley Central Germany”
- ▶ Fraunhofer Centre for Silicon Photovoltaics (CSP)
- ▶ PV research at the Martin Luther University Halle-Wittenberg, at the Fraunhofer Institute IWM and at the Max Planck Institute for Structure Physics
- ▶ Joint research focus “Nanostructured materials”

- ▶ Center for Innovation Competence (ZIK) in Halle (Saale) (SiLi-nano – silicon and light: from macro to nano)

Stopping the brain drain

- ▶ Educational field ‘Photovoltaics’ at the Martin Luther University Halle-Wittenberg with foundation professorship and five additional professorships in Physics and Chemistry
- ▶ Dual bachelor degree program ‘Solar Technology’ at the Anhalt University of Applied Sciences
- ▶ Vocational training courses at the Merseburg University of Applied Sciences

MORE SOLAR POWER LESS SILICON

- ▶ The Fraunhofer Center for Silicon Photovoltaic (CSP) is a crystallization and material analysis center that is unique worldwide.
- ▶ With its industry partners, the CSP carried out project-related and market-oriented research and development, as well as application oriented fundamental research in the field of silicon photovoltaics.

www.solarvalley.org
www.csp.fraunhofer.de
www.uni-halle.de
www.hs-merseburg.de
www.hs-anhalt.de
www.sili-nano.de
www.zere-ev.de

GREEN LIGHT – RESEARCH POTENTIALS FOR THE AUTOMOTIVE SUPPLIER INDUSTRY

In every German car you will find a piece of engineering from Saxony-Anhalt

Automotive research and development competence in Saxony-Anhalt

Otto-von-Guericke University Magdeburg

Research focus: Automotive with three columns:

- ▶ Conversion of energy and drive systems
- ▶ Safety and comfort
- ▶ Virtual Engineering

Harzgerode Creativity and Competence Center (CCC)

- ▶ Demonstration laboratory for aluminum die casting with automated die casting cell
- ▶ Top-quality laboratory facilities for the analysis and evaluation of subassemblies, molds and materials; among others, with scanning electron microscope, automated polishing and sanding equipment, test equipment, x-ray equipment and measuring station

Powder Metallurgy Competence Center Thale (PMC)

- ▶ Metal powder production/materials technology
- ▶ Sintered compact/procedure
- ▶ Metal powder die casting (MIM)
- ▶ Sinter technology and surface technology
- ▶ Welding wire production/thermal spraying

www.uni-magdeburg.de/automotive

www.ccc-harzgerode.de

www.pmc-thale.de

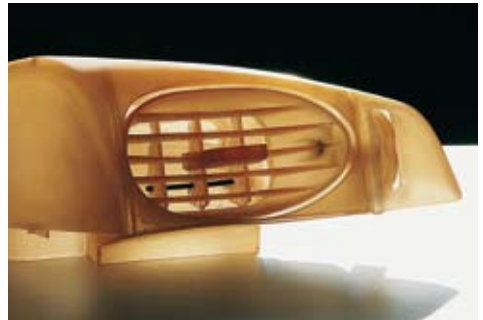
www.zfhaldensleben.de

www.mahreg.de

”InnComposites“ – Innovation center fiber composite, Haldensleben

- ▶ Engineering of fiber composites
- ▶ Production and analysis of composite profiles and components and other materials
- ▶ Close cooperation with Growth Core ALFA – Alliance Fiber Composites – tailored composite products downmarket – Haldersleben

Planned: **Institute for Competence in Automotive, Magdeburg-Barleben (IKAM)**, see page 12



Specialist for the entire process chain, from the development and prototyping to series production, AKT altmärker Kunststoff-Technik GmbH in Gardelegen

THE CLUSTER MAHREG AUTOMOTIVE

represents the automotive supplier industry with the corresponding special purpose machinery manufacture in Saxony-Anhalt with 11,000 employees in over 170 participating companies and partners. Central contact for automotive companies in Saxony-Anhalt and partner in the automotive cluster East Germany (ACOD).

MODERN POLYMER TECHNOLOGY – SCIENCE AND RESEARCH FOR THE PLASTICS OF THE FUTURE



Polymer synthesis and processing in pilot scale in the Fraunhofer PAZ, Schkopau

Today the same as yesterday – center for plastic competence in Europe

Innovation cluster “Polymer technology”, participants:

- ▶ Fraunhofer Institutes for Mechanics of Materials (IWM) in Halle (Saale) and for Applied Polymer Research (IAP) in Potsdam
- ▶ Fraunhofer pilot plant for polymer synthesis and processing (PAZ) at Schkopau
- ▶ Martin Luther University Halle-Wittenberg in Halle (Saale)
- ▶ Numerous industrial enterprises: small and medium-sized businesses and also large-scale enterprises, such as Dow Chemical
- ▶ Financing: 2.4 million euros from the land, 2 million euros from the Fraunhofer-Gesellschaft

Excellence cluster “Nanostructured materials” / materials science

- ▶ Martin Luther University Halle-Wittenberg (MLU)
- ▶ Max-Planck Institute for Microstructure Physics, Halle
- ▶ Fraunhofer Institute for Mechanics of Materials, Halle

www.uni-halle.de, www.mpi-halle.mpg.de
www.iwm.fraunhofer.de
www.polymer-pilotanlagen.de
www.kkz-halle-merseburg.de
www.polykum.de, www.cechemnet.de
www.cluster-chemie-kunststoffe.de

The **Plastic Competence Center in Halle Merseburg**, bundles research capacities of the University of Applied Sciences of Merseburg with the MLU, aligns itself in the **cluster of Chemistry / Plastics of Central Germany**

- ▶ Development of new polymer materials
- ▶ Expansion of alternative plastic processing technologies
- ▶ Modification suitable for processing and specific application engineering of bio-based polymer materials
- ▶ New and further development of measuring and testing methods for process monitoring and characterization of polymer materials

FRAUNHOFER PILOT PLANT FOR POLYMER SYNTHESIS AND PROCESSING

In Schkopau, it is possible in a technical area of approx. 1,000 m² and approx. 700 m² of office and laboratory surface to carry out polymer-synthesis procedures in solution, mass, emulsion and suspension, as well as different processing procedures, including Injection Molding Compounding (IMC).

POLYKUM E.V. – NETWORK OF PLASTICS FOR CENTRAL GERMANY

The Association for the Promotion of Polymer Development and Plastics Technology in Central Germany includes polymer producers, polymer processors, university and non-university scientific facilities, manufacturers of plastics machinery, tool and die makers, service providers and application-oriented facilities.

TRADITIONALLY INNOVATIVE – CORE LAND FOR GERMAN ENGINEERING

More than 150 years ago, the Association of German Engineers (VDD) was founded in Alexisbad/Harz. And today, Saxony-Anhalt is still a center for mechanical and plant engineering in Germany and Europe.

Mechanical engineering is the largest discipline with the richest tradition at the **Otto-von-Guericke University Magdeburg**. Educational and research focus:

- ▶ Project planning, construction and production of machines, apparatus and plants
- ▶ Logistics and materials handling engineering
- ▶ Development, processing and testing of new materials
- ▶ Factory planning and factory management

www.fmb.ovgu.de

The **University of Applied Sciences of Magdeburg-Stendal** deals with research topics, such as

- ▶ Manufacturing processes, systems and plants
- ▶ Material optimization and testing
- ▶ regenerative and integrated energy systems
- ▶ Software and hardware design

www.hs-magdeburg.de

While the **Harz University of Applied Studies and Research** conducts research in the field of automation technology, at the **Anhalt University of Applied Sciences** process engineering takes center stage.

www.hs-harz.de, www.hs-anhalt.de

Specific technology platforms for innovative mechanical and plant engineering (selection)

The **product development and innovation center for integrated manufacturing cells of**

the rotational processing (PIZ IF ROTA) is a technical center with exclusive equipment for the development of innovative processing technologies for high-precision processing of turned parts.

As a cooperation partner, the **Methodisch-Diagnostische Zentrum Werkstoffprüfung e.V.** (association for methodical diagnostic center for material testing) provides the Otto-von-Guericke University Magdeburg with research, development and application services in the fields of non-destructive material testing and microstructure analysis with the help of state-of-the-art equipment and processes.

www.uni-magdeburg.de/iwf/mdz/

CLUSTER OF SPECIAL PURPOSE MACHINERY MANUFACTURE AND PLANT ENGINEERING (SMAB)

The cluster SMAB represents almost 90 companies and research facilities in Saxony-Anhalt. Central initiator and expert advisor of innovation projects and processes.

Focus and future fields:

- ▶ Fluidized bed technology
- ▶ Further development of technologies for large-scale machines and special purpose machinery and for large part processing in Burg, Magdeburg and Aschersleben
- ▶ Development and production of equipment for roller mills, of strip mining plants and power plants, and for equipment for the cable industry
- ▶ Wind energy plants, biogas plants and geothermal plants
- ▶ Utilization of virtual technologies
- ▶ Combination of mechanical engineering and medical engineering (robot technology in surgery) www.cluster-smab.de

SHAPING THE FUTURE – EXPANSION OF THE INNOVATION INFRA- STRUCTURE IN SAXONY- ANHALT



Chemical site Leuna

Biomass instead of crude oil

The Chemical Biotechnological Processing Center (CBP) in Leuna

With the support from the land Saxony-Anhalt, the federal government and Infra-Leuna, the Fraunhofer-Gesellschaft is planning a research center at the chemical site Leuna; this research center is intended to enable companies to use biogenic resources and to bring the required chemical biotechnological processes from the laboratory to the technical application.

The bio-refinery offers new possibilities to be able to increasingly use renewable resources in the chemical industry in the future and as and when required, to produce for example oils, fat, lignocellulose and starch or sugar-containing resources as source materials for products.

Saxony-Anhalt will participate in the total investment of currently planned 50 million euros with a share of 20.1 million euros, as well as the start-up financing of a Fraunhofer project group which will be newly built at the Leuna site.

Driving smart

Institute for Competence in Automobility, Magdeburg and Barleben

The land of Saxony-Anhalt, the Otto-von-Guericke University Magdeburg and representatives of the industry intend to

jointly build and run a research institute which generates innovations from the excellent research results obtained in Saxony-Anhalt. For this purpose, the planned research institute will combine, by close cooperation of industry and science, all innovation phases from the fundamental research and application-oriented processing of new findings to industrial research under one roof at two sites. Resulting from an early orientation towards international trends of automobility and future demands of the automotive industry, the competitive capability of companies shall be strengthened and the research location further developed.

The research and development focus of the new research center includes in particular:

- ▶ Lightweight – construction and technologies for light, high-precision vehicle subassemblies and components
- ▶ Material development and technologies for high-performance materials including the development of new composite materials and further development of aluminum materials
- ▶ Development and testing of modern drive systems
- ▶ Electric mobility – electric drive and storage technologies
- ▶ Miniaturization of subassemblies and components

www.zenit-magdeburg.de

ROOM FOR INNOVATIONS – COMPETENCE FOR DEVELOPMENTS OF TODAY AND TOMORROW

Digital Engineering

Magdeburg is an established center for the application of virtual technologies. For the further expansion of the research and development of virtual and augmented reality, the Otto-von-Guericke University Magdeburg and the Fraunhofer IFF together founded the Center for Digital Engineering (CDE). It is the goal of the CDE, which is being built up, to form a hub from which other projects of the Virtual Reality field can be continued.

www.iff.fraunhofer.de

Neuromedicine

With the traditional research focus “neurosciences” at the Otto-von-Guericke University Magdeburg and the Leibniz Institute for neurobiology in Magdeburg (with a 7-tesla magnetic resonance tomograph), the site has gained international recognition. The accompanying infrastructure for research and development is provided by the Center for Neuro-Science Innovation and Technology (ZENIT).

www.zenit.de

www.ifn-magdeburg.de

Medical Engineering / Telemedicine

The research environment which has distinguished itself in Saxony-Anhalt forms the basis for innovative medical engineering. In an ideal research environment, within the INKA (intelligent catheters) project, for example, catheters with new performance features are developed. In the project TASC (Telemedical Acute Stroke Care), scientists from the Otto-von-Guericke University Magdeburg work on ultra-modern telemedicine technology to diagnose strokes over large distances and to support the treatment. Here,



“Embedded systems” are increasingly monitoring devices which are used as a matter of course on a daily basis



Europe's first 7-tesla magnetic resonance tomograph



Remote diagnosis of a stroke patient via telemedicine



Tomato blossom at the Leibniz Institute of Plant Biochemistry, Halle (Saale)

the focus is on the technical economic optimization of telemedicine solutions and structures.

www.inka-md.de

<http://tasc.telestroke.net>

Protein Research

Building on many years of tradition, the Martin Luther University in Halle has established itself as a science and research site, particularly in the area of protein research. Included in the scientific environment is the Enzymology of Protein Folding Research Centre of the Max Planck Society and the Leibniz Institute for Plant Biochemistry. Applications to the Federal Ministry for Education and Research with a strategy concept for setting up a center for innovation competence "HALOmem" and with a concept for setting up the protein competence network Halle were successful "tools, targets & therapeutics" (ProNet-T³).

www.halomem.de

Plant Breeding and Research

Continuing the existing tradition, with the Leibniz Institute of Plant Genetic and Crop Plant Research Gatersleben (IPK) and companies from the field of plant biology technology and the Leibniz Institute of Plant Biochemistry Halle (IPB) Saxony-Anhalt has developed to an internationally recognized center for plant research. At the Martin Luther University Halle-Wittenberg an

interdisciplinary center for the research of economic plants (IZN) is planned.

www.biomitteldeutschland.de

www.ipk-gatersleben.de, www.ipb-halle.de

www.green-gate-gatersleben.de

www.jki.bund.de

Process Engineering / Fluidized Bed Technology

For more than 30 years, the Otto-von-Guericke University Magdeburg has had excellent research capacities in the field of fluidized bed technology. Plant manufacturers and technology users in the Magdeburg region and beyond have been profiting from this. For example, with the InnoProfile project NaWiTec, the network creation, regional bundling of resources and working out of economically particular profitable joint projects in the field of fluidized bed technology shall be supported.

www.unternehmen-region.de/de/2292.php

TESTING OF RFID / TELEMATICS TECHNOLOGIES

The LogMotionLab at the Fraunhofer Institute IFF is a laboratory for the development, testing and certification of state-of-the-art identification technologies (RFID and telematics). The mobile, thus flexibly deployable components of the laboratory enable functional tests directly at the customer under real operational conditions. The LogMotionLab is equipped with almost any identification and positioning system that currently exists on the market or in development.



Fraunhofer Institute for Factory Operation and Automation (IFF) in Magdeburg



Would you like to find out more about the business location Saxony-Anhalt? Just order our information material or download the brochures as PDF documents from the download area of our homepage www.invest-in-saxony-anhalt.com.

- ▶ Leaflet: Public funds to support your investment project
- ▶ Fold-up map: Business location Saxony-Anhalt
- ▶ Brochures on different industries:
 - ▶ Automotive
 - ▶ Chemical / Plastics
 - ▶ Food industry (available as of 2010)
 - ▶ Renewable energies
 - ▶ Logistics
 - ▶ Mechanical engineering (available as of 2010)



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YOUR PARTNER

- ▶ for site selection
- ▶ for subsidy and financing issues
- ▶ for dealing with authorities
- ▶ for full line project management

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European Regional Development Fund
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