

Aalen University

Today at a Glance



Geographical Location of Aalen



Baden-Württemberg

- Baden-Württemberg is Europe's most **innovative** region in research and development
 - Expenditure on research and development in Baden-Württemberg accounts for 4.2 % of the gross domestic product
- **High living standard**
 - GDP: 343.74 billion Euro (third-highest in Germany)
 - GDP per capita: 32,000 Euro (9 % above the average for Germany and 25 % above the average for the European Union)

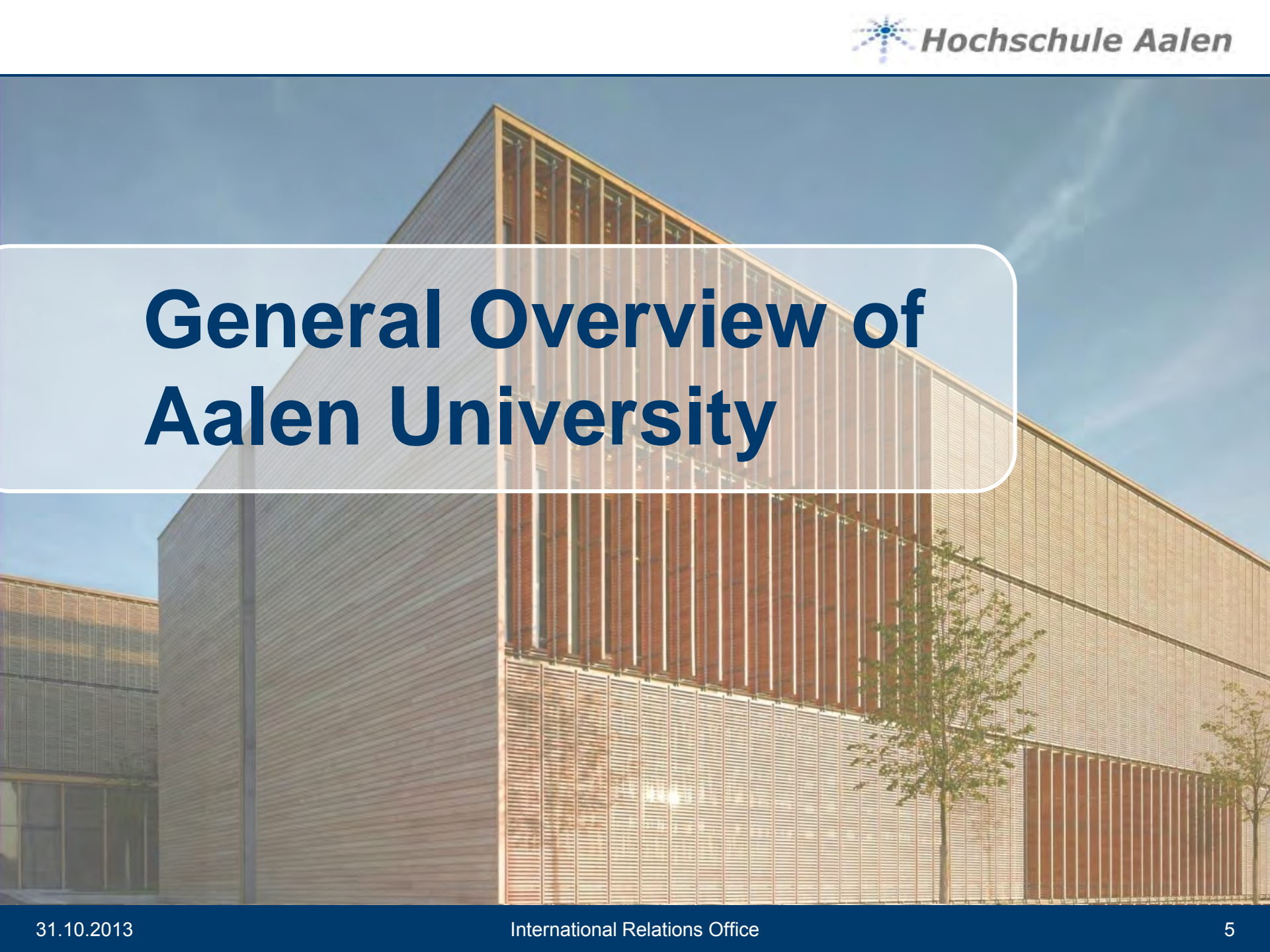


Baden-Württemberg

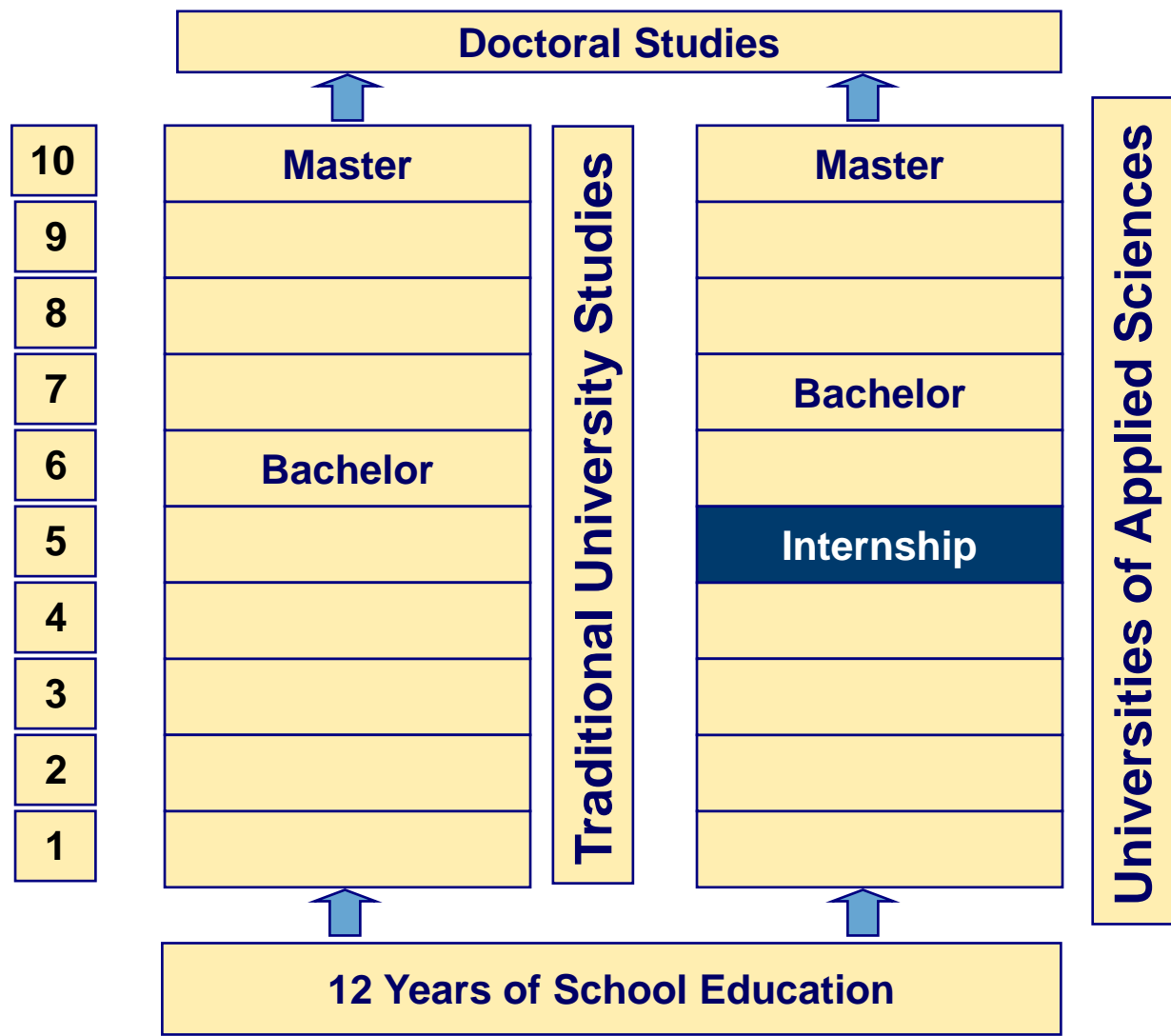


Global players in the neighborhood of the university





General Overview of Aalen University



Practice Orientation

- Professors with longstanding professional experience in industry
- Lecturers from Industry
- Students with professional experience (e.g. dual system education before studies)
- Company Excursions on a regular basis
- Student workers at the University getting involved in research
- Placements and Bachelor Theses in Industry
- Industry on Campus at multiple occasions e.g. yearly recruitment fair



Ranking 2011 Universities of Applied Sciences - Weekly Magazine „Wirtschaftswoche“ – Survey of HRM in Companies

- At those Universities Students are best prepared for their jobs and careers ...

 Wirtschaftsingenieurwesen		
1	Karlsruhe	10,9
2	Esslingen	7,5
3	München	6,8
4	Mannheim, Pforzheim	6,5
6	Berlin (HTW)	6,0
7	Aalen	4,5
8	Ulm	4,0
9	Dresden (HTW), Wildau (TH)	3,5

 Elektrotechnik		
1	Karlsruhe	10,0
2	Esslingen	9,2
3	Aachen	8,5
4	München	7,7
5	Darmstadt, Deggendorf	6,2
7	Berlin (HTW)	5,4
8	Dresden (HTW)	5,1
9	Aalen, Kaiserslautern	4,6

 Informatik		
1	Karlsruhe	9,5
2	Darmstadt	7,9
3	München	7,3
4	Esslingen	7,1
5	Stuttgart	7,0
6	Furtwangen	6,6
7	Aachen, Dortmund	6,3
9	Dresden (HTW)	5,9
10	Berlin (HTW)	5,5

 Betriebswirtschaftslehre		
1	Reutlingen (ESB)	23,9
2	Köln	11,0
3	München	9,5
4	Pforzheim	9,1
5	Berlin (HTW), Dortmund (ISM)	5,3
7	Bonn-Rhein-Sieg	4,9
8	München (MBS)	4,8
9	Deggendorf, Frankfurt/Main	4,5
	Münster, Wiesbaden (RheinMain)	4,5

 Wirtschaftsinformatik		
1	Karlsruhe	10,3
2	München	7,9
3	Berlin (HTW)	6,4
4	Reutlingen	5,9
	Stuttgart (HdM)	5,9
6	Furtwangen	4,9
7	Köln, Pforzheim	3,4
9	Bonn-Rhein-Sieg	3,0
10	Dortmund, Dresden (HTW)	2,7

 Maschinenbau		
1	Esslingen	12,1
2	Aachen	11,4
3	Darmstadt	10,1
4	Karlsruhe	9,8
5	München	9,1
	Berlin (HTW)	9,1
7	Aalen, Dresden (HTW)	7,6
9	Deggendorf	6,1
10	Nürnberg	5,3

Source: <http://www.wiwo.de/management-erfolg/die-besten-unis-fuer-die-karriere-463360/2/>, 19.04.2011

Aalen University

5000 Students

28 Bachelors Programs

19 Masters Programs

9 Further Education Programs

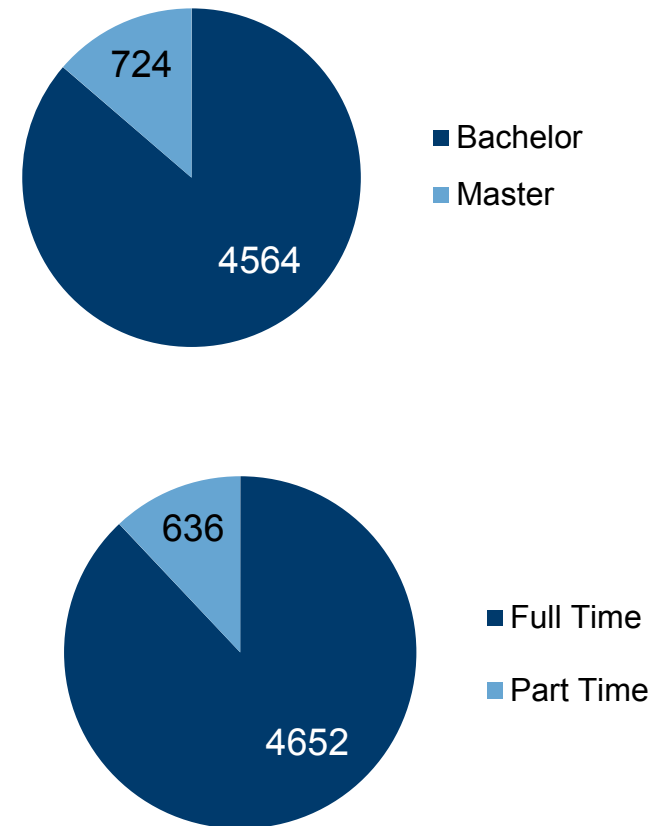
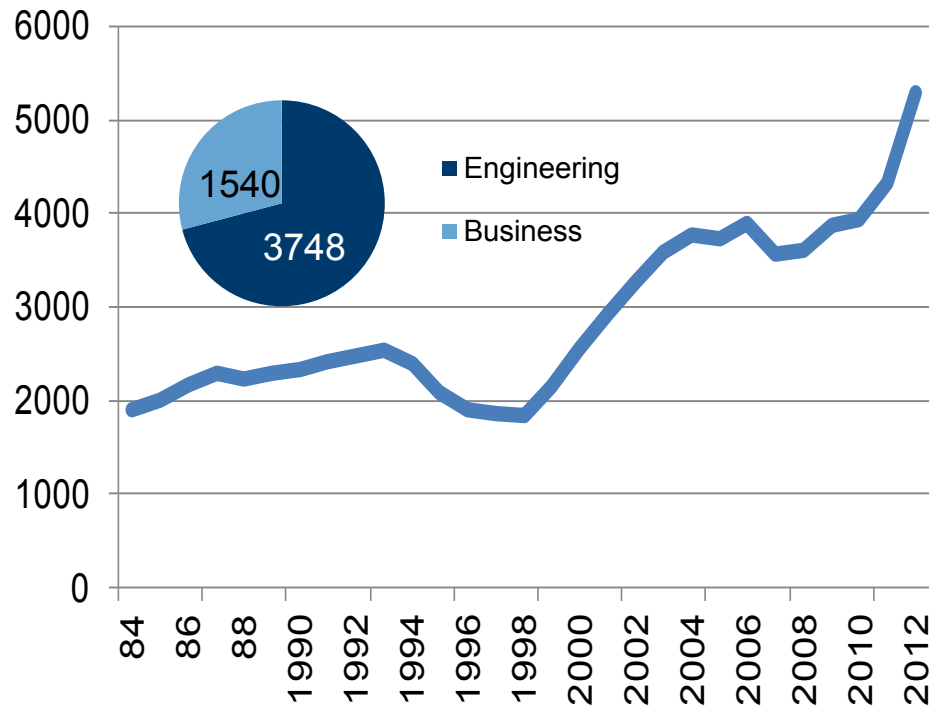
Education und Innovation



Profile of Aalen University

Development of Student Numbers

Number of Students



Note: including WBA, GSO und Taxmaster

Status: March 2013



Education

Schools

Management and Business Sciences



Business

Mechanical Engineering and Materials Science



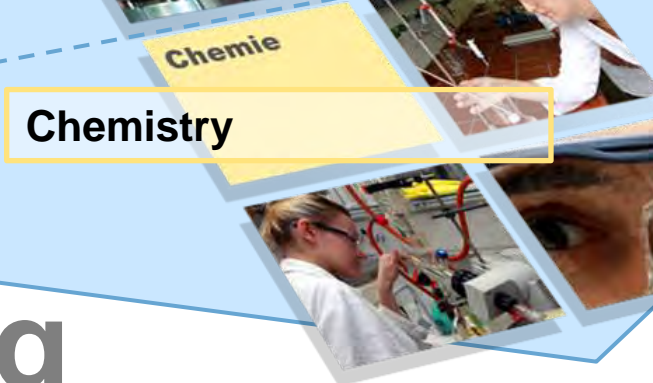
Optics and Mechatronics



Electronics and Computer Science

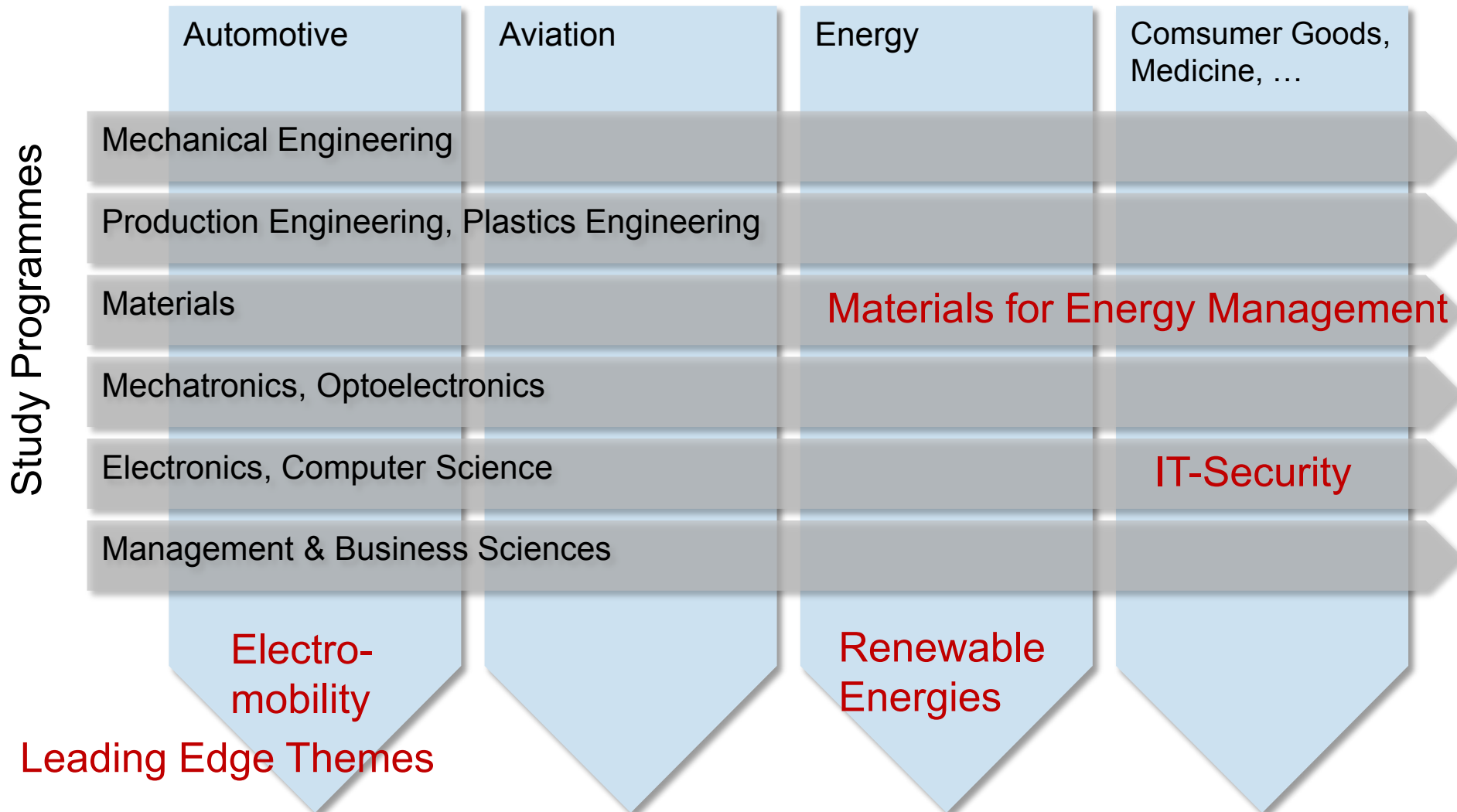


Chemistry



Engineering

Applications, Branches



Our Study Programmes

School of Chemistry	School of Electronics & Computer Science	School of Mechanical Engineering & Materials Science	School of Optics & Mechatronics	School of Management & Business Sciences	
<ul style="list-style-type: none"> ■ Chemistry 	<ul style="list-style-type: none"> ■ Electronics and Information Technology ■ Informatics <ul style="list-style-type: none"> ○ IT-Security ○ Media Computing Science ○ Software Engineering ○ Business Computing Science 	<ul style="list-style-type: none"> ■ Mechanical Engineering ■ Plastics Engineering ■ Mechanical Engineering / Production and Management <ul style="list-style-type: none"> ○ Mechanical Engineering / Business and Management ■ Mechanical Engineering / Product Development and Simulation ■ Surface and Materials Technologies <ul style="list-style-type: none"> ○ Materialography ○ International Technical Sales Management 	<ul style="list-style-type: none"> ■ Mechatronics <ul style="list-style-type: none"> ○ Technology Communication ■ Optometry / Optometry and Audiology ■ Optoelectronics / Laser Technologies ■ Technical Teacher Education 	<ul style="list-style-type: none"> ■ Business Studies SME ■ Health Management ■ International Business Studies ■ Industrial Management 	<i>Bachelor Programmes</i>
<ul style="list-style-type: none"> ■ Analytical & Analytical Biochemistry 	<ul style="list-style-type: none"> ■ Computer Controlled Systems 	<ul style="list-style-type: none"> ■ Applied Surface and Materials Sciences ■ Polymer Technology ■ Product Development and Production ■ Advanced Materials and Manufacturing (Master by Research) 	<ul style="list-style-type: none"> ■ Technical Teacher Education ■ Photonics ■ Vision Science and Business (Optometry) 	<ul style="list-style-type: none"> ■ Industrial Management ■ Management / International Business 	<i>Master Programmes</i>

Profile of Teaching at Aalen University




- Continual Improvement in Teaching Quality
- Intensive Support Concept with Seminar-Style Teaching
- Motivating Initiative, Hard-Working, and Goal-Oriented Students



Practice Oriented – Network with Businesses

- Companies/Foundations award special prizes to students, including the Karl Kessler Prize, the Kreissparkasse Ostalb University Prize, ZFLS Prize, Prize for Technology and Medicine, IWO Prize
- Aalen University has nine endowed professorships in the areas of
 - Direct Customer Relationship Management
 - Business Start-Ups
 - Machine Tools and Milling Production Technologies
 - Optical Production Technologies
 - Automotive Engineering
 - Health Management (four professorships)





Pontificia Universidad Católica del Perú

The PUCP promotes intensive student mobility through university networks or bilateral exchange programs. Students can participate in over 100 exchange programs and other mobility programs.

Internationalisation

Hochschule Ulm



PONTIFICIA
UNIVERSIDAD
CATÓLICA
DEL PERÚ



PONTIFICIA UNIVERSIDAD
CATOLICA
DE VALPARAISO

„INTERNATIONAL CENTER“



AKADEMISCHES
AUSLANDSAMT



SprachenZentrum



International Center at Aalen University, Gartenstr. 135, 73430 Aalen

At home in the world



Aalen University: a Living International Academic & Industry Network



- The top destinations of Aalen students 2012 were USA (28%), Spain (16%), China (10%), UK (7%) and Sweden (4%) for studies and internships abroad
- 4th National Place for Aalen U. in Erasmus – PLACEMENT Grants / Mobilities (1. TU Dresden, 2. HS Bremen, 3. TU München, 4. HS Aalen, 5. Uni Leipzig)

Cooperative Models (1)

- **EUROPE**

- Double Degree Programmes with Universities in France (Master in Business Studies), the UK (Bachelor in Business Studies, Chemistry & Computing Science),
- Doctorate Agreements with Universities in the UK (Business Studies), Spain (Optometry and Optoelectronics)
- Participation in EU Projects in Education and Research, including in third-party countries

- **USA**

- Strategic cooperation with universities in Maine and Pennsylvania at master and bachelor levels, including professor exchanges in business studies with nationally funded DAAD Programmes Bachelor Plus
- Strategic optometry partnerships with Pacific Oregon University and the Boston College of Optometry at the master level (joint realisation)

Cooperative Models (2)

• LATIN AMERICA

- Double degree programmes with universities in Argentina with the Universidad de Belgrano, Buenos Aires and in Mendoza in the field of business studies
- Baden-Württemberg-Programme with Monterrey Tech. for numerous courses of study
- DAAD-DIES Project Coordinator for Universities in Chile and Peru

• ASIA & OCEANIA

- Programme „Language & Praxis“ with Chinese partner universities for business studies and engineering and Double Degree Scheme in Chemistry / Materials Science
- Consortia Member of the Baden-Württemberg State Malaysia Programme to educate degree seeking Malaysians in Engineering topics
- Doctorate cooperation with universities in Australia

• MIDDLE EAST & AFRICA

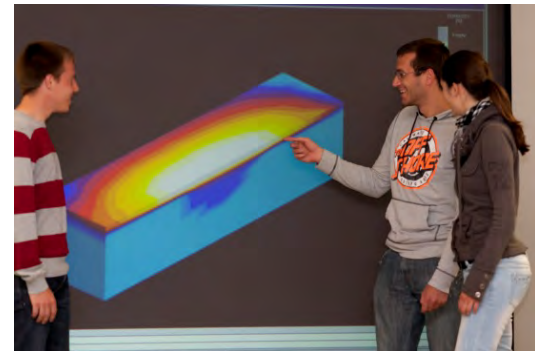
- Consortia Member of the German-Jordanian University, Amman (Industrial Management).
- Strategic partnerships with Central University of Technology in Bloemfontein, South Africa for numerous courses of studies as well as doctorate cooperations

A photograph of three researchers in a laboratory. A man on the left, wearing orange safety glasses and a white lab coat, is looking towards two women. The woman in the middle has long brown hair and is wearing clear safety glasses and a white lab coat. The woman on the right is also wearing clear safety glasses and a white lab coat, and is pointing towards a piece of equipment. They are all smiling and appear to be engaged in a discussion. In the foreground, a pair of large, white, heavy-duty gloves is visible, held by the man. The background shows a laboratory setting with various pieces of equipment, including a large glass-enclosed machine on the right.

Research

High-Level Research

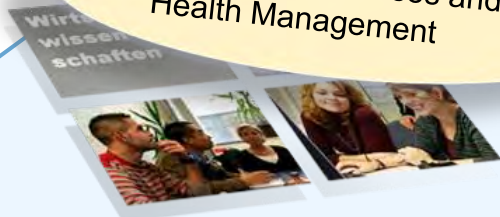
- Strongest University of Applied Sciences in Research in Baden-Württemberg
- Modern Equiped Laboratories
- Education at the Leading Edge
- Comprehensive Insight in Current Leading Edge Research Themes
 - Health Management
 - Financial Markets
 - Electromobility
 - Renewable Energies
 - IT-Security
 - etc.



Research Emphases

Business

Business Processes and Health Management



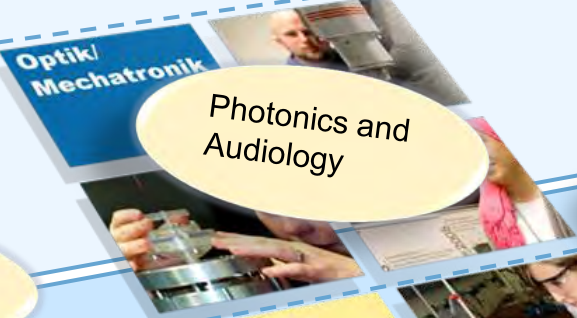
Construction in Mechanical Engineering



Software Engineering and Image Processing



Photonics and Audiology



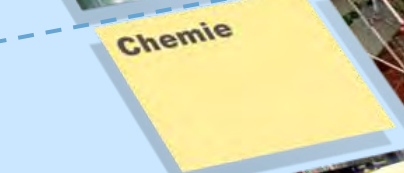
Materials and Production Technologies



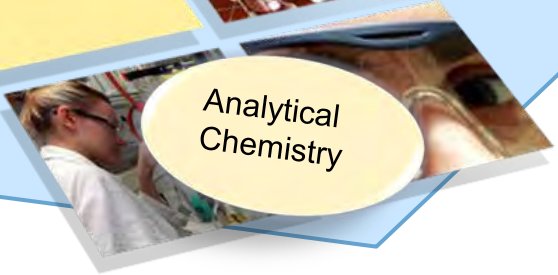
Electronics for Energy Conversion



Chemie



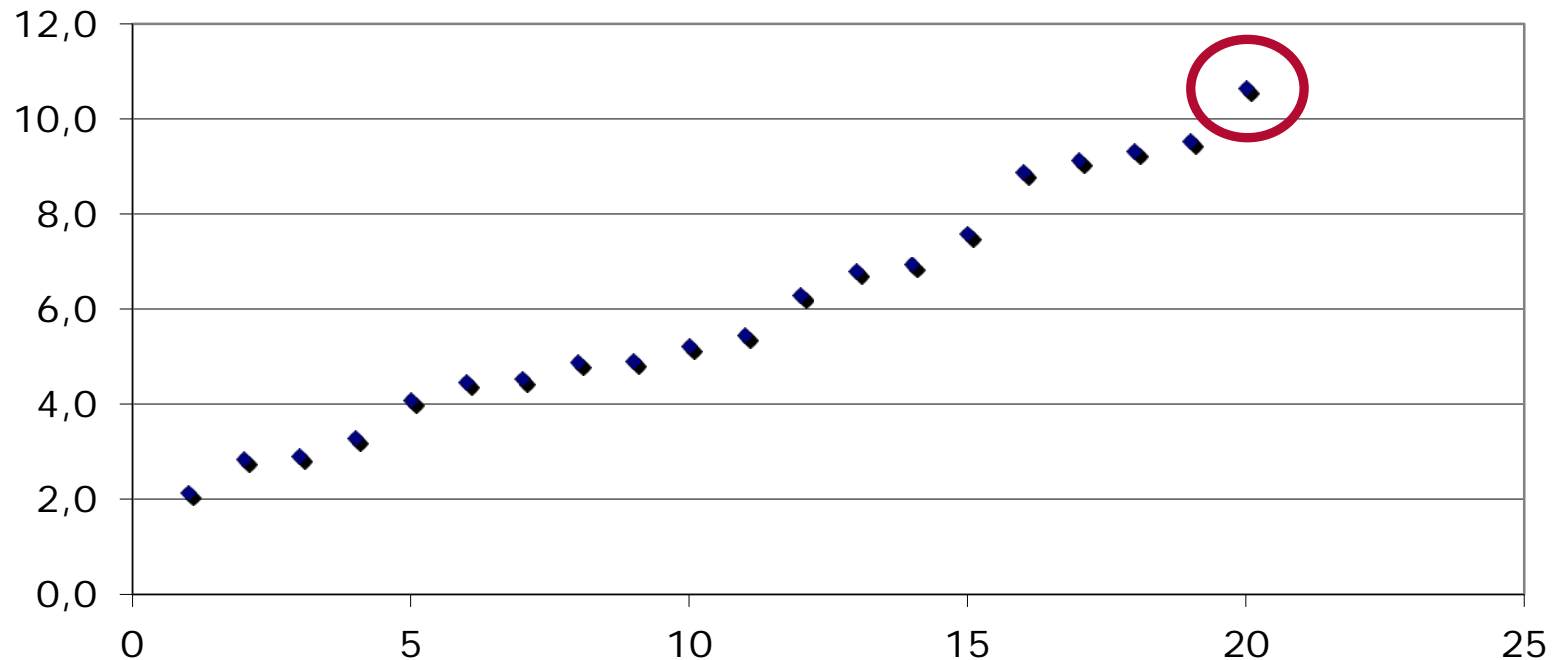
Analytical Chemistry



Engineering

Strongest University of Applied Sciences in Baden-Württemberg

Values 2012



- Note: every point stands for the research value of a university of applied sciences
- The research values are supplied by the Advisory Body AG4 of the Ministry of Science, Research and Arts on the basis of the research reports of the Institutes for Applied Research of the universities of applied sciences

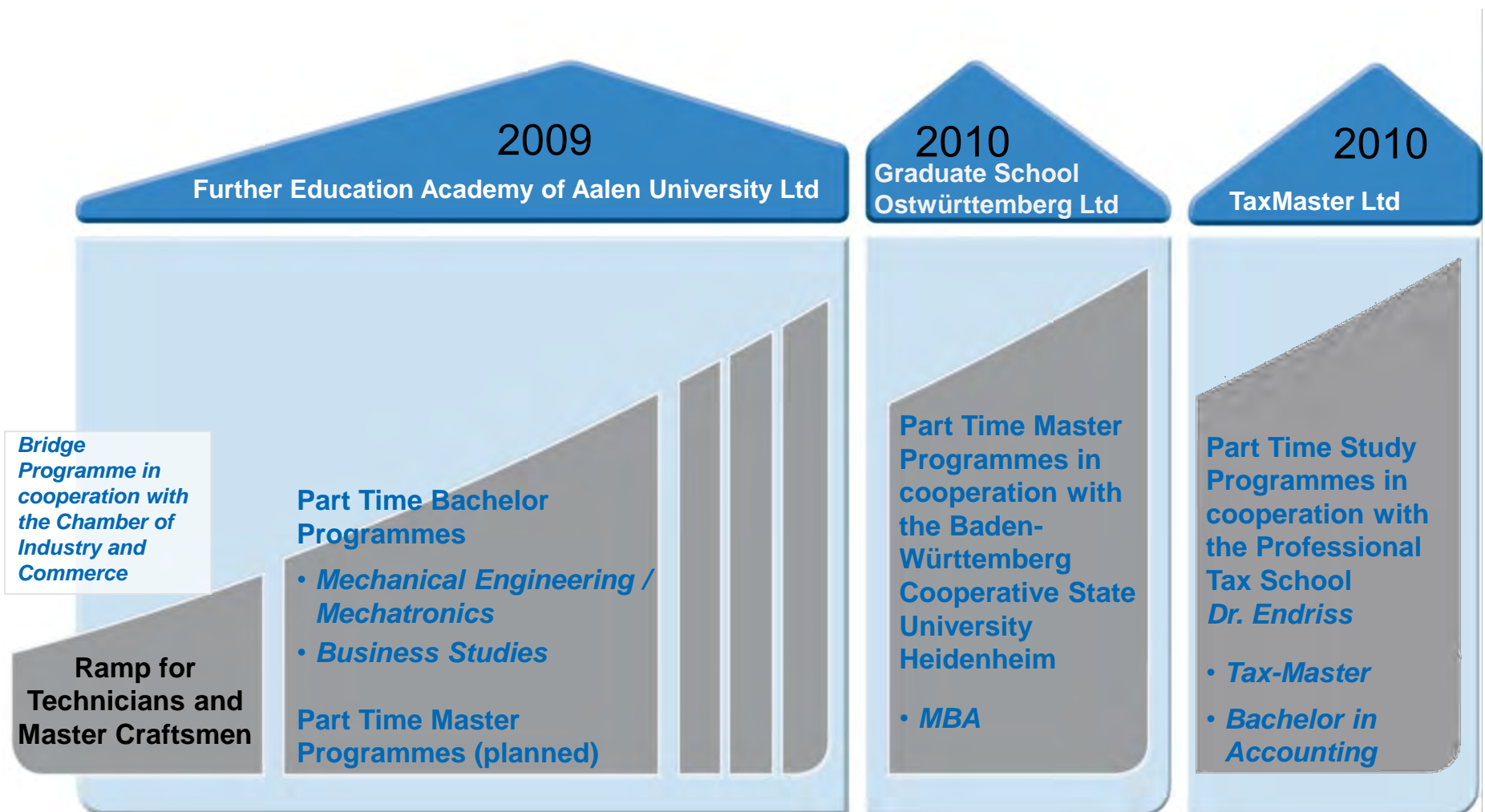
PhD Students at Aalen University



Part Time Programmes (Further Education)



Part Time Programmes at Aalen University



Employers of the WBA Students (Engineers)

Leitz GmbH&Co. KG

Carl Zeiss AG

Schwäbische Hüttenwerke GmbH

EMAG Automation GmbH

BSH Bosch und Siemens Hausgeräte GmbH

Tyco Electronics AMP GmbH

Daimler AG

Gigatronik Stuttgart GmbH

SHW Storage & Handling Solutions GmbH

Maschinenfabrik Alfing Kessler GmbH

Kocher-plastik Maschinenbau GmbH

TÜV Süd Industrie Service GmbH

Voith GmbH

Liebherr Werk Ehingen GmbH

MAPAL Dr. Kress KG

Ricardo Deutschland GmbH

Schwenk Zement AG

ZF Lenksysteme GmbH

Behr GmbH

TRW Automotive GmbH

Riehle Maschinenbau GmbH & Co. KG

Awards for the Further Education Academy WBA

Initiative Award 2010 of the German Association of Chambers of Industry and Commerce Education and Further Education



September 2010

National Award of Further Education 2010 for the Aalen Concept of Studies from the renowned „Haus der Technik“



Deutscher-Weiterbildungspreis.de

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“And the winner is...”

Alexandra Jürgens hat mit ihrem maßgeschneiderten Studienmodell für beruflich Qualifizierte den Deutschen Weiterbildungspreis 2010 gewonnen.

Das maßgeschneiderte Studienmodell ermöglicht es Meistern, Technikern und beruflich Qualifizierten, berufsbegleitend einen akademischen Titel im Bereich Maschinenbau und Mechatronik zu erlangen. Auf diese Weise kann eine neue Zielgruppe zu einem akademischen Abschluss gebracht werden. Die Idee für dieses Konzept ist angesichts des regionalen Fachkräftemangels entstanden und zeigt mit Weitblick eine Lösung zur notwendigen Ausrichtung auf die Anforderungen der heutigen Arbeitswelt auf.

Die Preisverleihung fand am 10. Februar 2011 im Rahmen eines feierlichen Festaktes im HDT in Essen statt, moderiert von Kristin Gräfin von Faber-Castell.

Wir gratulieren Alexandra Jürgens und bedanken uns bei den vier weiteren Finalisten, die der Jury die Entscheidung nicht leicht gemacht haben. Ein herzliches Dankeschön auch an alle übrigen Bewerber um den Deutschen Weiterbildungspreis 2010.

[Pressemittteilung zur Verleihung des Deutschen Weiterbildungspreises 2010](#)



April 2011



explorhino

Goals of explorhino



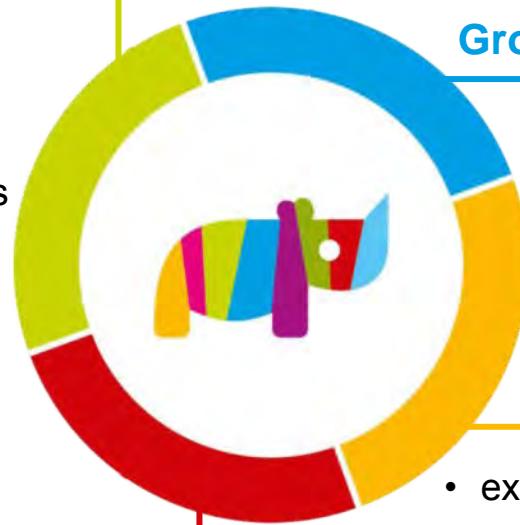
Classes of Pupils

- explorhino on the road: mobile Experiments for Schools
- Visits of University Laboratories
- Experiment Sessions at the University



Kindergarden

- House of Little Researchers
- Technolino
- Children experimenting with University Professors



Groups of Pupils



- Children Academy
- Project Days for Pupils
- „Green Eel“
- Girlsday / Boysday
- BORS/BOGY
- Day of Technology
- Pupils Engineering Academy
- Competitions for Pupils

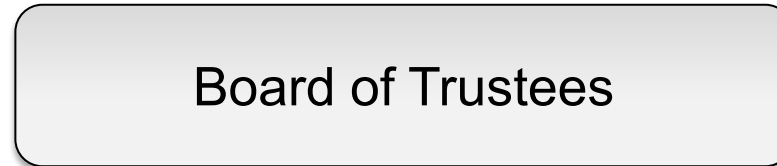
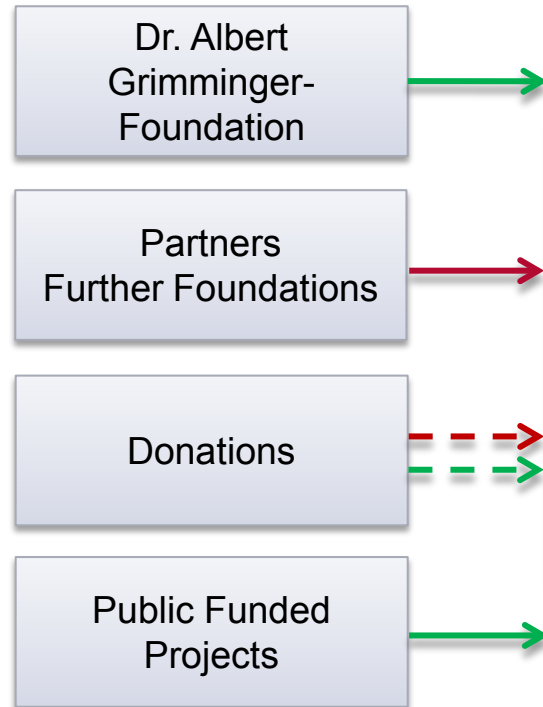
Leisure



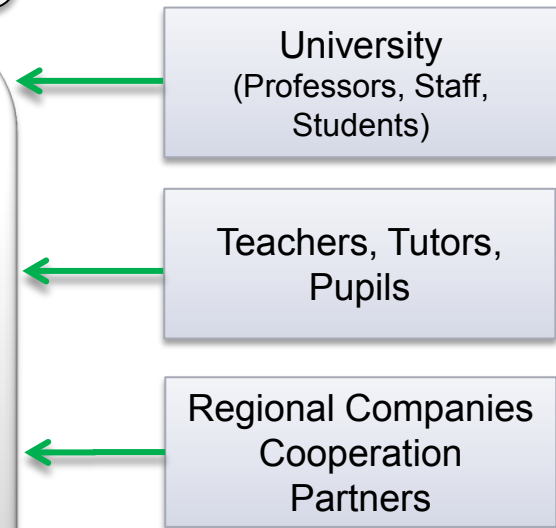
- explorhino on the road
- Excursions
- University for Children
- Summer Holidays Programme of the University
- Science Camps
- Visits of Companies „Career gets a Face“
- Get a Taste Lectures / Studies for Pupils

Organisation

In Terms of Funds



In Terms of Staff





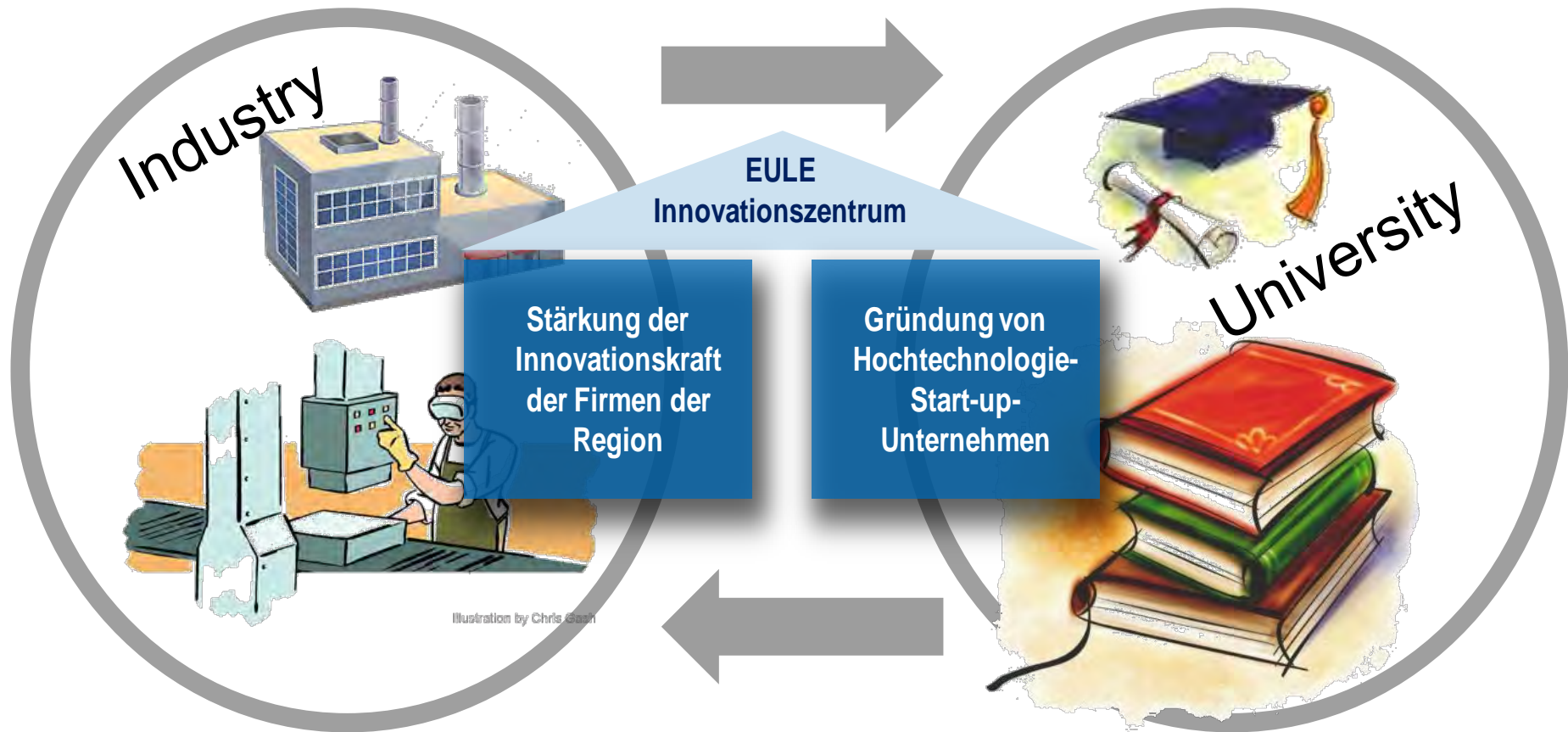
Innovations

Goal „University of Founders“

- Establishment of Aalen University as a University of Founders at the Top of the Heap in the Region of East Wuerttemberg until 2020
- Significant Growth of the Rate of Company Formations originated in the University within the Target Groups of Scientists / Students / Alumni; Generation of 5 to 10 Start-Ups per year starting 2014/2015
- Establishment of an Innovation Environment in close Cooperation between Research and Regional Economy, evaluated on the Basis of Research Activities

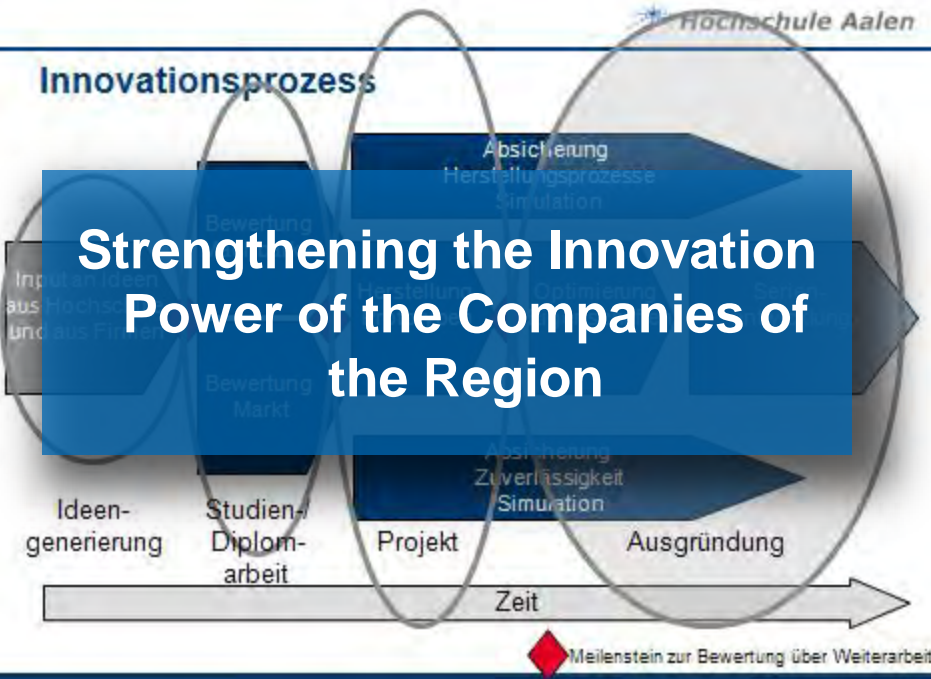
Innovation Centre – EULE

Interface between Industry and University



Innovation Centre - EULE

Innovationsprozess



23

Konzepte und Ziele des Innovationszentrums EULE-Projekt



30

Attractiveness of the Learning and Leisure Environment Aalen



History: Romans

- Roman fort, *Ala II Flavia Milliaria*, established ca. 150 C.E
- With one thousand cavalry troops, the largest fort on the Roman-Germanic border
- Limes Museum, Roman Festival



History: Middle Ages

- Medieval Aalen founded ca. 1245
- Free imperial city, autonomous and self-governing (1360-1803)
- Regular market times established in 1398; continue to the present

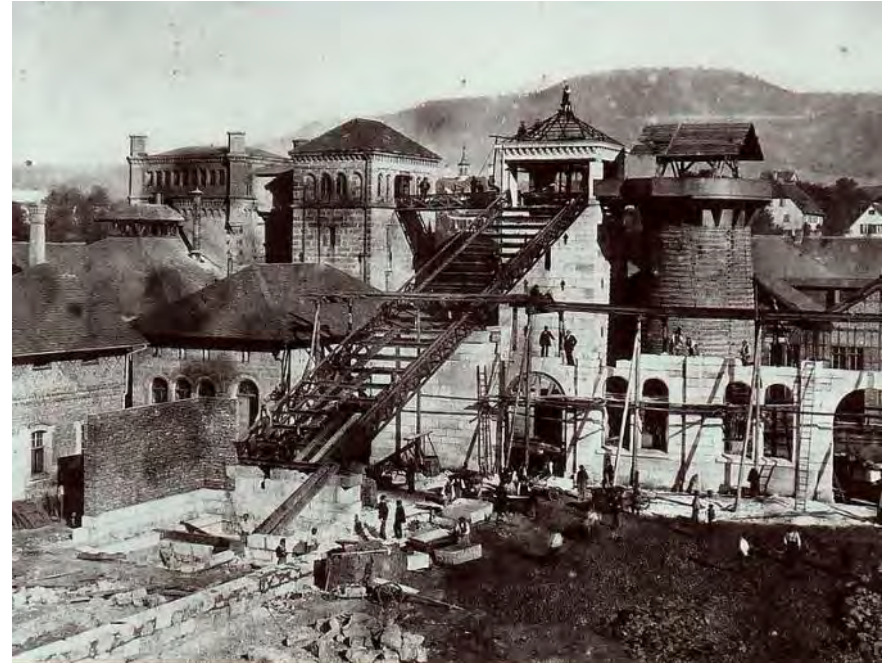


The Aalen night watchmen continue the tradition from the Middle Ages.



History: Industrialisation

- Wasseraalfingen iron mines expanded, technical improvements
- Royal Iron Works in Aalen (today SWH)
- Railway between Stuttgart and Aalen (1861), Aalen becomes regional rail centre
- Electrification (1912)



History: Today

- Today a city of 67,000 with eight city districts
- Carl Zeiss headquarters in neighboring Oberkochen since 1945, with plant in Aalen
- Aalen University of Applied Sciences founded 1963 (50 years in 2013!)
- Football Club VFR Aalen in the 2. Bundesliga since this season.



Museums in Aalen



The Aalen Limes Museum, dedicated to the former Roman calvary fort, is a UNESCO World Heritage Site.



The Geology Museum in Aalen presents the geological and biological history of the region with an outstanding collection of fossils and minerals.



Visitors can experience first-hand the Tiefer Stollen mines.

Sport and Recreation



The hills and mountains around Aalen offer excellent trails for mountain biking.



Winter sport in Aalen: ski lifts and ice rinks

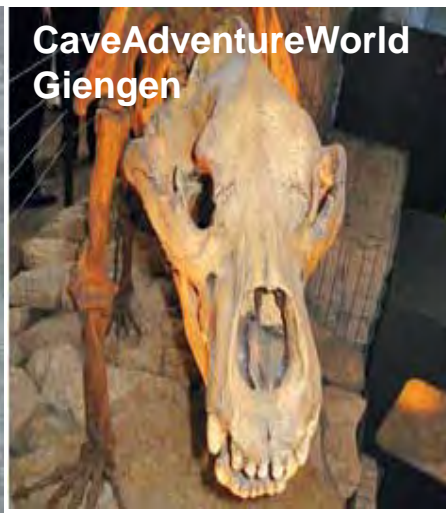
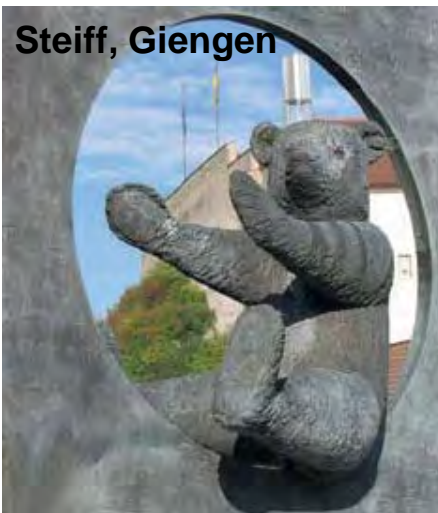


Aalen has four public swimming pools, in addition to the Limes Thermal Baths.



Aalen's climbing wall

Leisure Activities and Attractions





The Aalbäume, at 702 Meters above Sea Level, with View of Aalen and Neighboring Cities



Schloss Fachsenfeld and Gardens

Source of the Kocher River



Limes Thermal Baths



Aalen City Festivals



Aalen's „Reichstädter Tage“ is held annually in early autumn.



Christmas market



The Jazz Fest features artists from around the world



The Roman Festival celebrates the city's early history and provides entertainment and education.



Source:
Limes Museum

Castles in the Vicinity of Aalen



Abbey Neresheim



Lake Constance

- 240 km
- The Swabian Sea
- „Flower Island“ of Mainau



Rothenburg ob der Tauber

- 74 km
- Medieval Character on the „Romantic Road“



Munich

- 181 km
- Heart of Bavaria
- Home of Oktoberfest
- Bayern Munich - Soccer



Nuremberg

- 133 km
- World-Famous Christmas Market



Freiburg im Breisgau

- 263 km
- Situated in the Black Forest



Strasbourg: European Capital

- 234 km
- Cathedral
- Petite France
- European Parliament

