European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

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Thread: "Opportunities and starting points of a common academic education and research between German and Chinese universities in the area of sustainable urban and regional development "

Project coordinators in China and Germany

The Project Identification Phase Sponsored by:

Bundesministerium für Bildung und Forschung

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European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

Lecture:
Regional Disparities in China and Introduction of ECER

Prof. SHI Peijun, Executive Vice President,
Beijing Normal University

European-Chinese Centre for Education and Research
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Regional Disparities in China and Introduction of ECER

Prof. SHI Peijun

Executive Vice President, Beijing Normal University

October 23th, 2011, Trier,Germany

European-Chinese Centre for Education and Research
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1. **Regional Development Disparities in China**

2. **Introduction of ECER**

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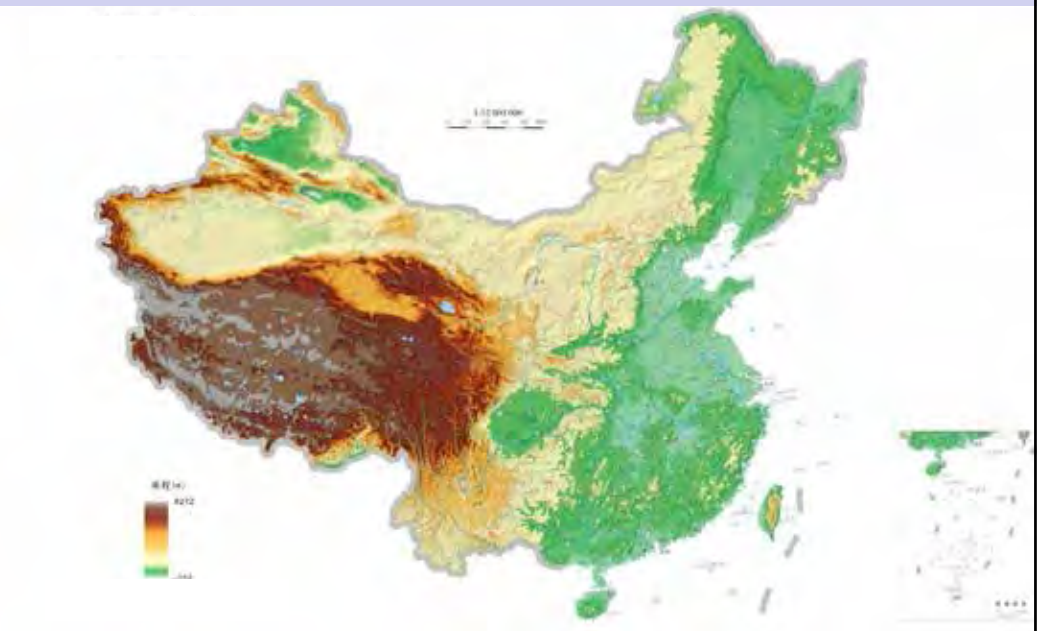
1. Regional Development Disparities in China

(1) Natural Conditions of Urban and Regional Development in China

(1)Natural Natural Conditions of Urban and Regional Development in China



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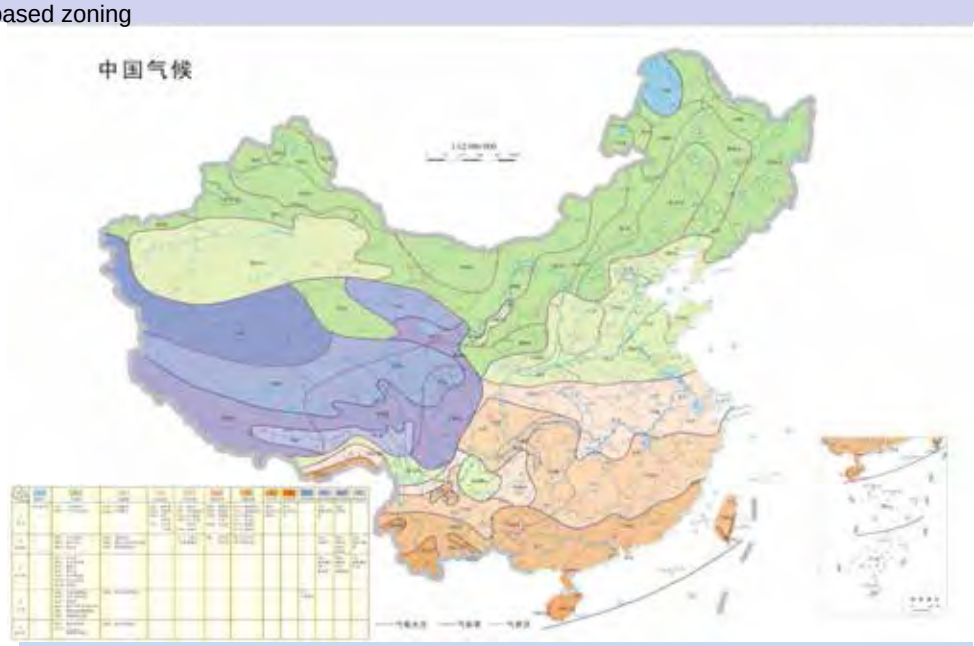
(1)Natural Conditions of Urban and Regional Development in China: Climate-based zoning



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1. Regional Development Disparities in China

(2) Disparities of East, Middle and West Areas in China

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(2) Disparities of East, Middle and West Areas in China

Division of economic belts in China

In terms of economic belt, China can be divided into three major areas: east coastal areas, middle inland areas and west remote areas (Note: Taiwan Province, Hong Kong and Macao Special Administrative Regions are excluded)

- East areas: 11 provinces and municipalities directly under Center Government including Beijing, Tianjin, Hebei, Liaoning, Shanghai, Jiangsu, Zhejiang, Fujian, Shandong, Guangdong and Hainan
- Middle areas: 8 provinces including Shanxi, Jilin, Heilongjiang, Anhui, Jiangxi, Henan, Hubei and Hunan
- West areas：12 provinces and municipalities directly under Center Government including Chongqing, Sichuan, Guizhou, Yunnan, Tibet, Shannxi, Gansu, Ningxia, Qinghai, Xinjiang, Guangxi and Inner Mongolia

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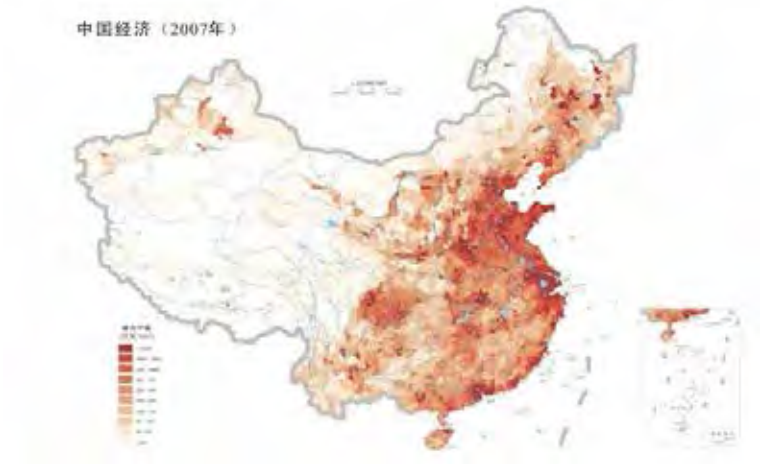
(2) Disparities of East, Middle and West Areas in China



The Pattern of GDP Per Area(2007)

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(2) Disparities of East, Middle and West Areas in China

- Traffic infrastructures

Pattern of traffic network in China (2007)

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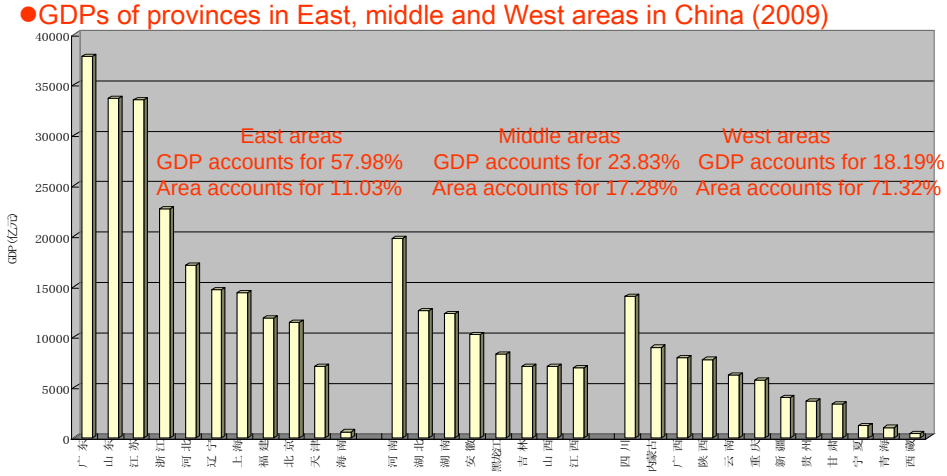
(2) Disparitiess of East, Middle and West Areas in China

- GDPs of provinces in East, middle and West areas in China (2009)



In 2009, the GDPs in East, middle and West areas in China are 20467.961 billion Yuan, 8411.610 billion Yuan and 6423.260 billion Yuan respectively.

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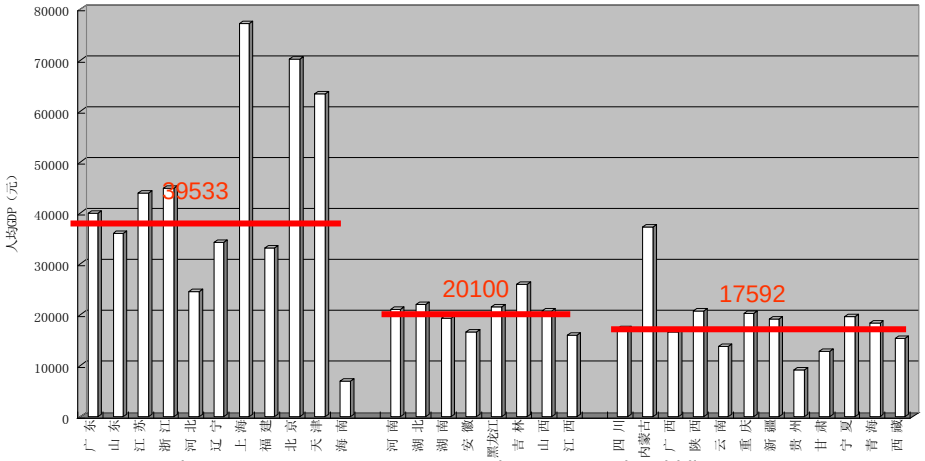
(2) Disparities of Among East, Middle and West Areas in China

- Per capita GDPs in East, middle and West areas of China(2009)



Average in East area: 39533 Yuan per capita, Average in middle area: 20100 Yuan per capita, Average in West area: 17592 Yuan per capita

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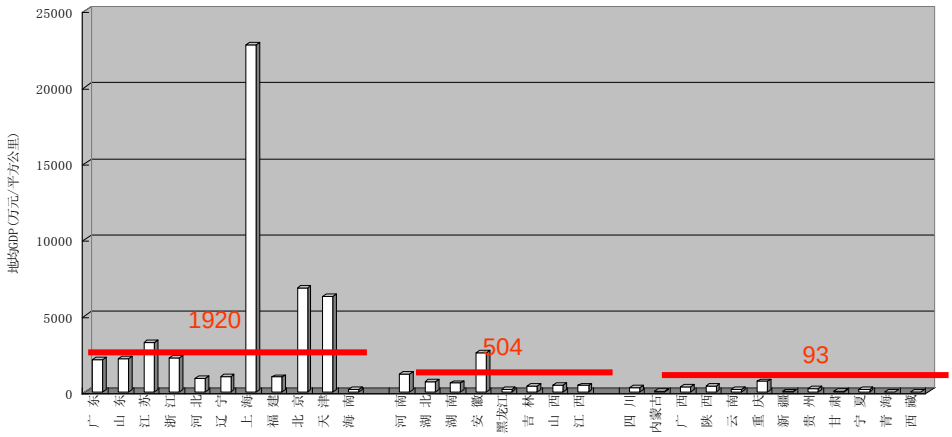
(2) Disparities of East, Middle and West Areas in China

- Per area GDPs of provinces in East, middle and West areas of China (2009)



Average GDP in East areas: 19.20 million Yuan/km^2 , Average GDP in middle areas: 5.04 million Yuan/km^2 , Average GDP in West areas: 0.93 million Yuan/km^2

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1. Regional Development Disparities in China

(3) Disparities of South –North in China

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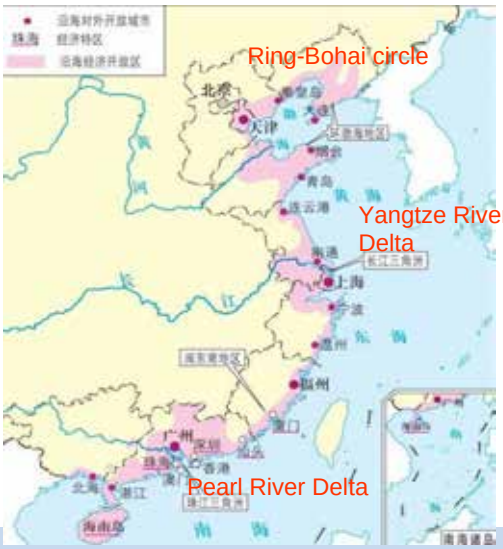
(4) South-north regional disparity of social economy Development among in China

A regional Disparity existing in Chinese economic reform process that starts from 1978: the reform in South areas was earlier than that in middle and North areas which caused obvious south-north regional disparity of social economy development in China

Pearl River Delta

Yangtze River Delta

Ring-Bohai circle



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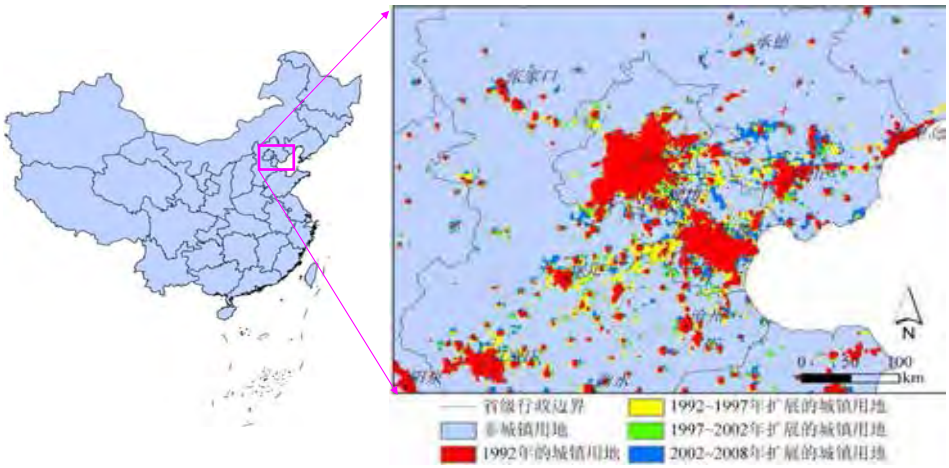
Process of Expansion of Urban Land Use of City Group in Beijing, Tianjin and Tangshan from 1992 to 2008



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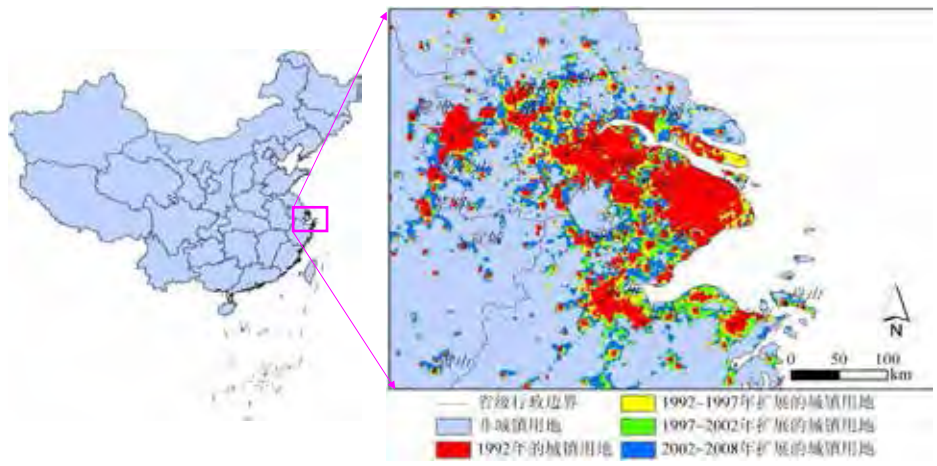
Process of Expansion of Urban Land Use of City Group in Shanghai, Nanjing and Hangzhou from 1992 to 2008



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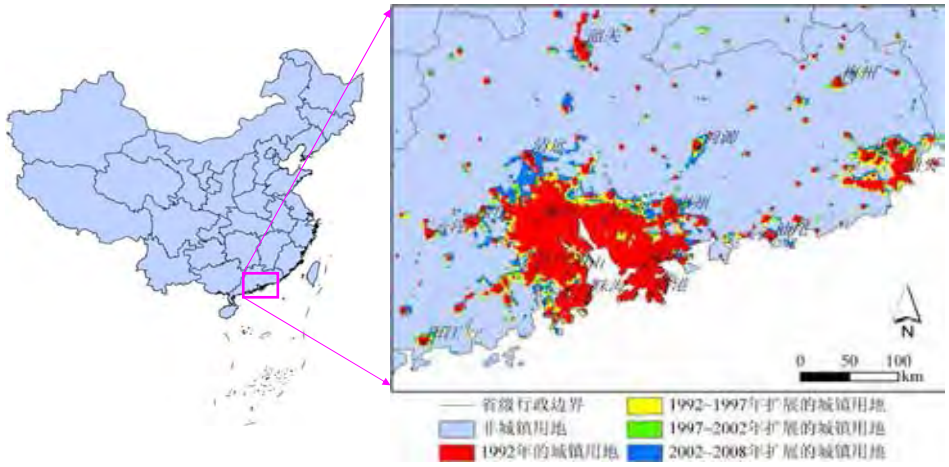
Process of Expansion of Urban Land Use of City Group in Pearl River Delta from 1992 to 2008



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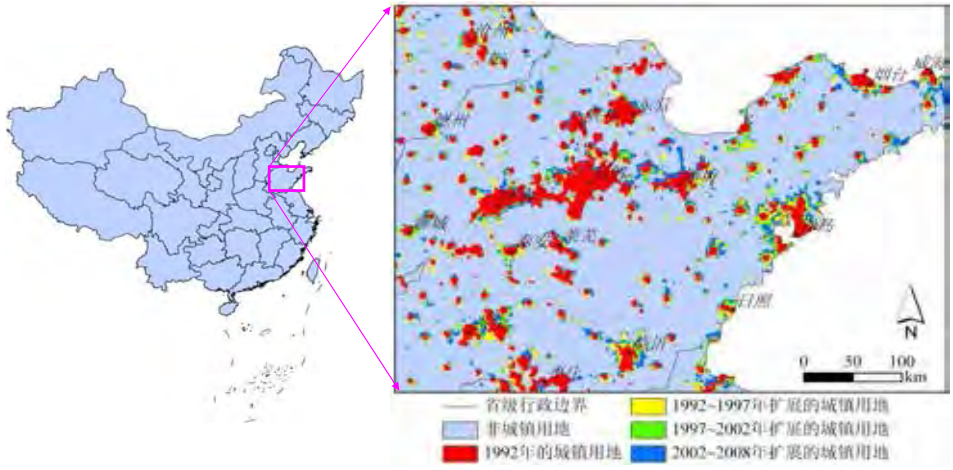
Process of Expansion of Urban Land Use of City Group in Shandong Peninsula from 1992 to 2008



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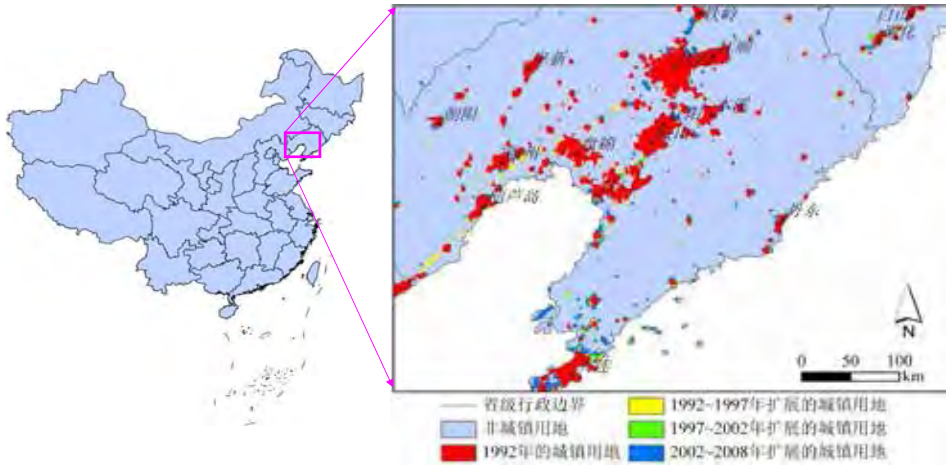
Process of Expansion of Urban Land Use of City Group in Middle and South Areas in Liaoning Province from 1992 to 2008



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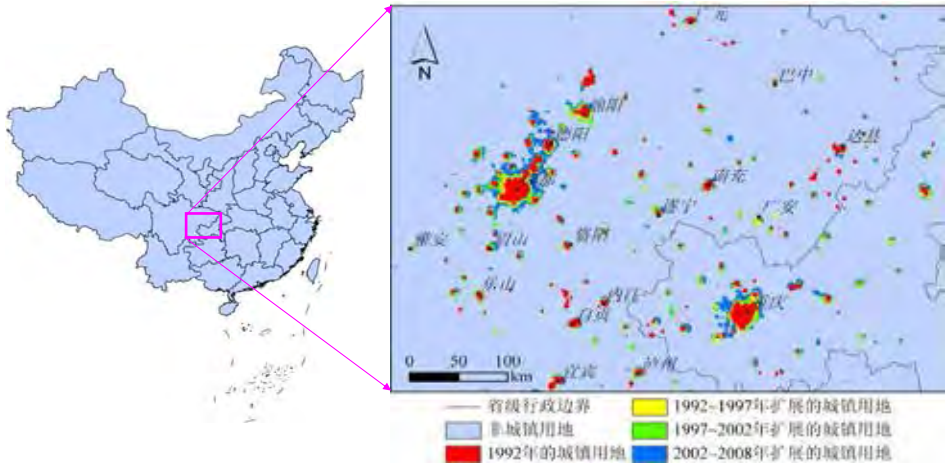
Process of Expansion of Urban Land Use of City Group in Sichuan Basin from 1992 to 2008



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1. Regional Development Disparities in China

(4) Disparities of Urban-rural in China

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(4) Urban-Rural Disparities in China

- Disparities of incomes and wealth
  - per capita income disparityis large
    Per capita income of urban resident is 3.33 times to that of the peasant (2008)
  - disparity of income growth rate
    Per capita income growth rate of peasants is far less than that in urban areas
  - The disparity in wealth is large
    Per capita deposit of urban resident is 5.9 times to that of the peasant (2006)
- Disparities of living level
  - Per capita consumption level of urban resident is 3.53 times to that of the peasant

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(4) Urban-Rural Disparities of in China

- Disparity of education level
  - Disparity of education opportunity
    - The admission rate of higher schools for rural students is 6% lower than that for rural students
    - Most students from rural areas learn in universities of lower level and there are only 27.3% of total students from rural areas in key universities.
  - Disparity of education level between urban-rural residents
    - in urban areas, the proportions of populations with diploma of high school, technical secondary school, junior college, undergraduate course and graduate course are 3.5, 16, 55, 281 and323 times of those in rural areas respectively
- Disparity of social welfare
  - Social welfares enjoyed by urban residents include:
    - Various subsidies, like housing subsidies, price subsidies and others
    - Social securities like medical insurance, unemployment insurance and guaranteed minimum incomes

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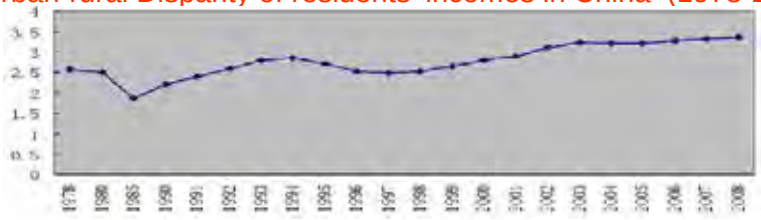
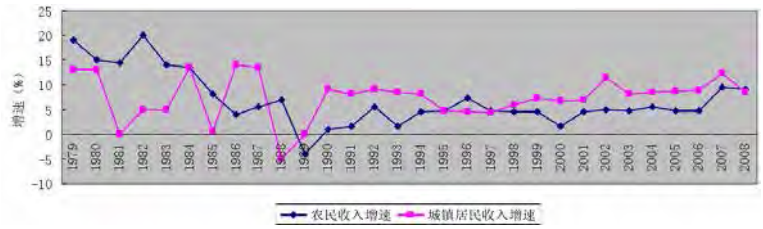
(4) Urban-Rural Disparities of Social Economy Development in China

- Urban-rural Disparity of residents' incomes in China (1978-2008)



Ratio of urban-rural resident's incomes in China



Comparison between average income growth rates of peasant and urban resident

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(4) Urban-Rural Disparities of Social Economy Development in China

Disparities of public service facilities

Comparison of public service facilities between urban area and non-urban area (2005)

Public facilities item	Non-urban area	Urban area	Ratio of non-urban area to urban area
Quantity of theater per 100 thousand people	0.40	0.66	0.61
Quantity of hospital per 100 thousand people	6.20	7.10	0.87
Quantity of sickbed in hospital per 100 thousand people	171.00	474.00	0.36
Quantity of post office per 100 thousand people	5.30	5.70	0.93
Quantity of book collected in pubic library per capita	18.00	61.00	0.30
Population density (people/km^2)	317.00	1026.00	0.31

Source: Chinese Urban Statistics Yearbook, Beijing, Chinese Statistics Press

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(4) Urban-Rural Disparities of Social Economy Development in China

Great disparity in education investment

- **Disparity in education budget**
  - Per capital education budget in urban areas is 1.93 times as much as that in rural areas
  - Per capital public budget in urban areas is 3.24 times as much as that in urban areas
  - Dangerous classrooms mostly in village, accounting for 81.97%
- **Disparity in teaching quality**
  - China has lower requirements for teachers' educational background, and if China increases the threshold of educational background by one level, 70%-80% of teachers in rural areas will be unqualified.
- **Rural areas are trapped into a vicious cycle in the downgrading teaching quality**
  - Few village students receiving higher education will come back, and they often become urban residents.
  - Researches show that parents` education level greatly influences their children's ultimate education
  - With the increasingly great gap between urban and rural areas in teaching quality, it is very hard for rural population and its productive force to directly benefit from education.

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(4) Urban-Rural Disparities of Social Economy Development in China

- Binary structure in household registration
  - **Free migration of farmers is restricted**
  - **In rural areas , children's education rights are restricted to the local area, making it hard for these children enjoy good urban education resources**
  - **Farmers lack social assurances:**
    - Endowment insurance
    - Medical insurance
    - Minimal living guarantee
  - **Farmers working in cities have made contributions to urban development, but they cannot enjoy the welfare brought by the development.**

Binary structure in household registration：Its cornerstone is to ground population into urban and rural residents, for whom different social welfare policies are exercised. Switch between urban and rural registration is strictly restricted.

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2. Introduction of ECER

中欧区域发展规划教育与研究中心项目进展汇报

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项目背景

中国在快速的经济发展过程中，产生了诸多生态环境和社会经济问题，导致区域间的差距日益扩大。为了缩小这一差距，促进国家可持续发展和和谐社会建设，中国需要一个更为系统和有效的从中央到地方的区域发展规划体系。而欧洲尤其是德国在区域发展规划方面处于世界前列，其经验和教训能为我国提供很好的借鉴。同时，中国中央和地方各级政府的规划人员也迫切需要学习国际先进经验和技术以提高自身的工作水平。

基于上述，北京师范大学与德国特里尔市政府，依据中欧、中德政府间框架合作协议，分别作为中欧双方的牵头单位和核心协调单位，于**2007**年开始筹建**“**中欧区域发展规划教育与研究中心**”**（简称**“**中欧中心**”**；英文全称**“European-Chinese Centre for Education and Research in Regional Development Planning”**，简称**“ECER”**），于**2010**年**5**月进入正式运行阶段。

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项目目标

1、为中欧区域发展规划相关领域的专家、学者以及规划者之间的对话和经验交流搭建平台，加强双方在区域发展规划相关领域的合作。即在充分考虑中国国情的情况下，学习和借鉴欧洲同行的经验和教训，促进我国规划和规划法制体系的进一步发展，以及区域规划水平的提高。

2、通过增进中国与欧洲在区域发展规划相关领域中大学之间的合作，进一步提升各参与院校在相关领域的学术水平及国际合作能力。

3、通过在区域发展规划相关领域的学位教育、职业培训、科学研究等项目，推动国际化办学，促进国家相关领域的人才培养，提升中央和地方各级政府的规划人员的业务水平。

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已完成的主要工作

中欧双方的合作目前包括三个模块，即学位教育、职业培训和科学研究，三个模块互相支撑、互相补充。科学研究的项目成果可应用于学位教育、职业培训项目；职业培训项目可进一步扩展中欧双方专家的网络，以此促进科学研究项目，同时基于学员，特别是在职工作人员的反馈，对科学研究的项目进行调整，使其更具有实际运用价值；学位教育项目，特别是博士学位项目，与科学研究项目相结合进行设计，也可达到相互促进的效果。

迄今为止，中欧中心已派出**29**名本科毕业生、为累计约**200**名学员举办**4**次职业培训、主办三次科研项目的智库会议，参与的中方、欧方单位已达**30**余个。

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（1）学位教育

作为中欧中心学位教育项目的试点项目，自2009年9月至2011年9月，北京师范大学累计向德国斯图加特大学派出29名优秀本科毕业生攻读基础设施规划专业硕士学位。2009年派出的首批9名学生将于2011年10月毕业。该项目的成功已产生了良好的影响，欧洲多所高校正通过德国特里尔市与我方商议以类似模式拓展学位教育方面合作的可能。

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（2）职业培训

中欧中心目前共组织了四次职业培训，包括2009年的在欧洲的“欧洲防灾减灾与应急管理”、“交通规划”培训，2010年在北京师范大学的“德国防灾减灾与应急管理系统”、“可持续土地利用与综合土地利用规划”培训。这四次培训内容丰富，特别是理论介绍与案例分析的有机结合，得到了学员们的一致好评，进而扩大了中欧中心在国内，特别是民政系统、铁路系统和国土资源系统的影响，为中欧中心今后组织类似的培训项目积累了不少宝贵经验。

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（3）科学研究

为了促进中欧双方合作伙伴在科学研究方面的实质性合作，目前中欧中心已召开了三次科研项目的智库会议。

第一次智库会议于2010年1月至2月在德国特里尔市召开，参会单位包括北京师范大学、北京交通大学、德国特里尔市城市发展与统计局、德国特里尔市规划局、卢森堡大学、特里尔大学、亚琛工业大学、斯图加特大学、德国技术合作公司、德国建设与空间规划联邦研究室和欧洲消防协会。

第二次智库会议于2010年10月在上海召开，主题为“可持续城市与区域发展”，参会单位包括北京师范大学、北京交通大学、华东师范大学、民政部国家减灾中心、厦门大学、德国特里尔市政府、德国不来梅大学、BPV顾问有限公司等。

第三次智库会议于2011年10月在北京召开，主题为“欧亚大陆桥的合作与发展”，参会单位包括北京交通大学、国家发改委综合运输研究所、国家发改委经济运行局交通物流处、德国不莱梅大学、德国BLG、中铁集装箱多式联运有限公司等。

通过这三次会议，中欧中心迅速扩展了其专家网络，并形成了若干科研合作意向。

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当前工作及发展展望(1)

为了使更多的国内高校在中欧中心的项目中受益，进一步扩大中欧中心在中国、欧洲的影响，中欧中心的欧方协调单位德国特里尔市政府将邀请中国驻欧盟使团、中国驻德国大使馆相关领导，以及北京师范大学、北京交通大学、华东师范大学、厦门大学、武汉大学等五所国内高校的代表，于2011年10月22日至29日与斯图加特大学、亚琛工业大学、柏林自由大学、不来梅大学、凯泽斯劳滕大学、特里尔大学等六所欧洲高校，洽谈硕士培养、博士培养、科学研究等多方面的合作，并拜访德国联邦教研部、德意志学术交流中心等德方单位。

未来，中欧中心将基于已有的成功经验，进一步建设和扩大现有的合作网络，联合国内多所高校与欧洲知名高校、科研机构在区域发展规划相关领域进行实质性、全方位的合作。具体包括：

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当前工作及发展展望(2)

1）通过硕士、博士培养项目，促进国家在相关领域的人才培养。初步估计，2012至2015年，中欧中心网络中的欧洲高校每年约可接受70-100名中国学生赴欧洲攻读硕士学位。博士培养项目正在结合中欧中心科研项目的设计，与欧洲高校进行积极磋商，目前斯图加特大学、不来梅大学、特里尔大学已表示了明确的合作意向，并建议了若干博士培养方向。

（2）职业培训项目。鉴于出国培训的费用较高，今后中欧中心拟争取相应的资金支持，邀请欧洲著名专家来国内为相关机构的工作人员进行培训，提升相关领域工作人员的业务水平。

（3）通过进行合作科研项目，学习欧洲同行的先进经验，提升国内高校在相关领域的学术水平和国际影响力。2010年中欧中心已向欧盟申请了一个“可持续城市发展中的公众参与”的科研课题。2011年或2012年中欧中心拟向德国联邦教研部申请土地利用方面的科研项目资助。更多的合作科研项目还在讨论中。

Prof. SHI Peijun, Executive Vice President, Beijing Normal University

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in Regional Development Planning (ECER)

Thank You!

Prof. SHI Peijun, Executive Vice President, Beijing Normal University

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Thanks !

Prof. SHI Peijun, Executive Vice President, Beijing Normal University

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Lecture:
Academic education, training and research, basis of as sustainable urban and rural development in China: The ECER-project and its implementation

Prof. Dr. Johannes Weinand,
Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

**Academic education, training and research,
basis of as sustainable urban and rural development in China:
The ECER-project and its implementation**

A Cooperation Project between the City of Trier and the Beijing Normal University;
Promoted by the Federal Ministry of Education and Research and the Chinese Ministry of Education (MoE)

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

The European Union: 501 million people – 27 countries

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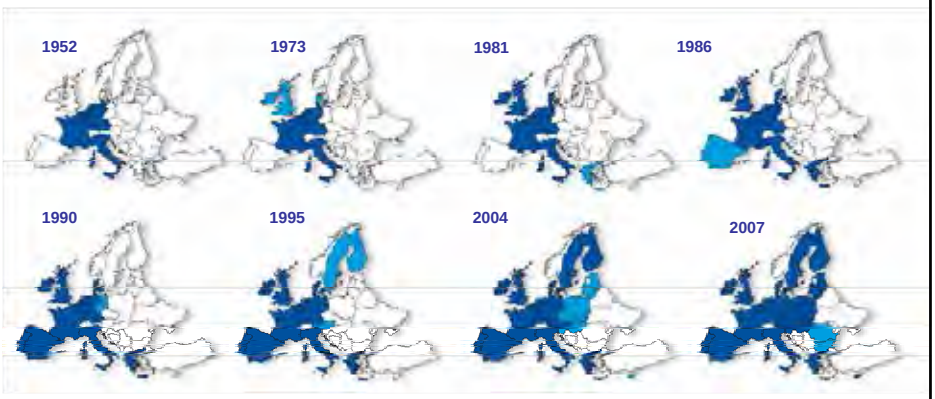
The EU is the result of eight enlargements including economically heterogeneous countries



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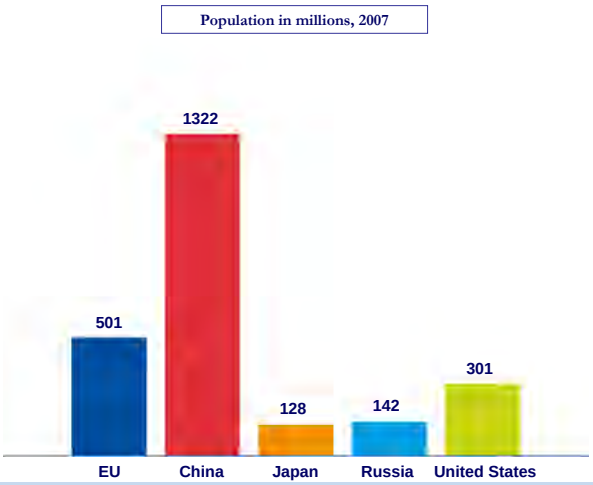
EU population in the world



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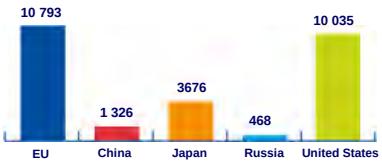
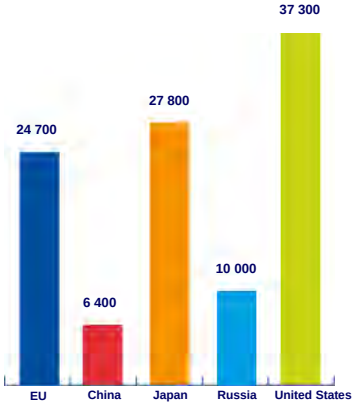
How rich is the EU compared to the rest of the world?



Size of economy: Gross Domestic Product in billion of euros, 2006



Wealth per person: Gross Domestic Product per person in Purchasing Power Standard, 2007

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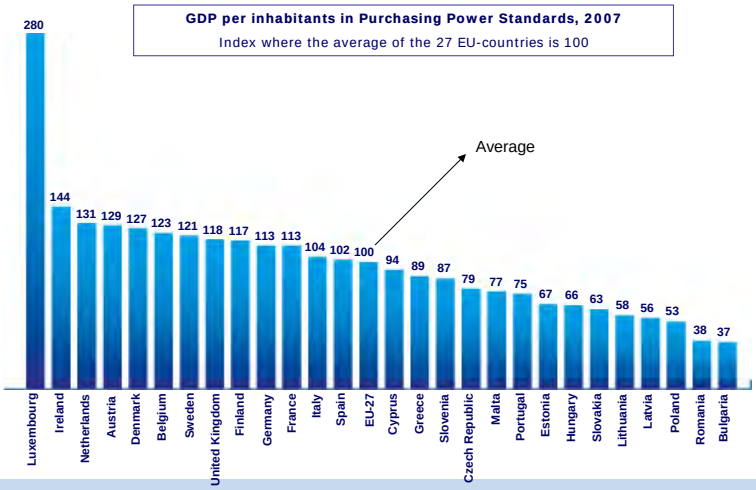
GDP per inhabitant: Deep Regional Disparities

GDP per inhabitants in Purchasing Power Standards, 2007
Index where the average of the 27 EU-countries is 100



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Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier 7

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Solidarity in practice: the EU cohesion policy

2007-2013: 347 billion euro invested for infrastructure, business, environment and training of workers for less well-off regions or citizens

- Regional fund
- Social fund
- Cohesion fund

Convergence objective: regions with GDP per capita under 75% of the EU average. 81.5% of the funds are spent on this objective.

Regional competitiveness and employment objective.

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier 8

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Background

- Extraordinary economic growth in China:
  - → Increase of spatial and
  - → social disparities throughout the country
- Need for a countrywide policy on harmonized development of economy and infrastructure
- The Chinese National Government aims to reduce disparities between poor and rich regions
- The European and German policy on regional development and infrastructure may serve as an example for the solution of spatial development problems in China

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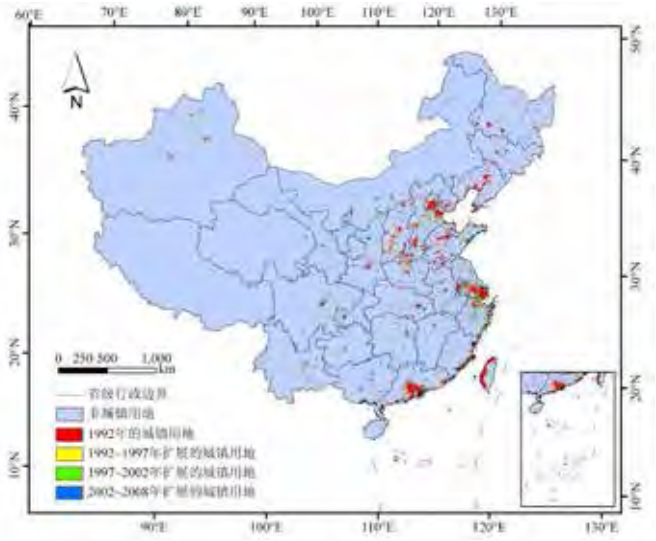
Process of Expansion of Urban Land Use in China from 1992 to 2008



Source: Beijing Normal University

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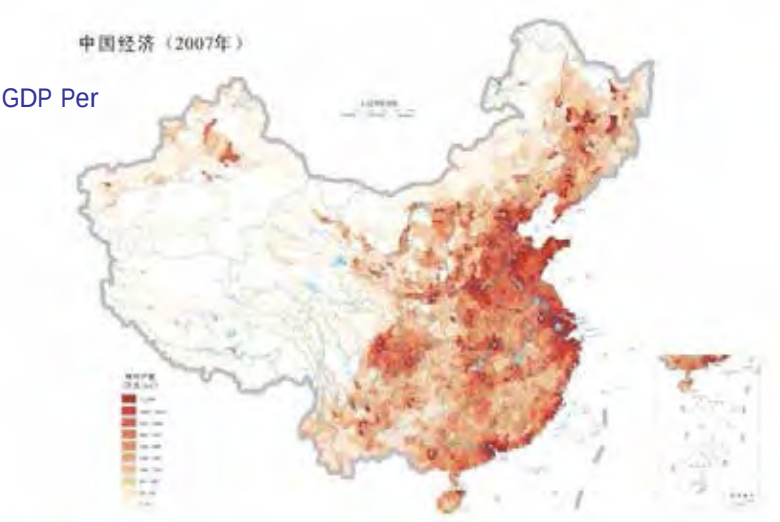
The Pattern of GDP Per Area (2007)



Source: Beijing Normal University

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Traffic infrastructures

Source: Beijing Normal University

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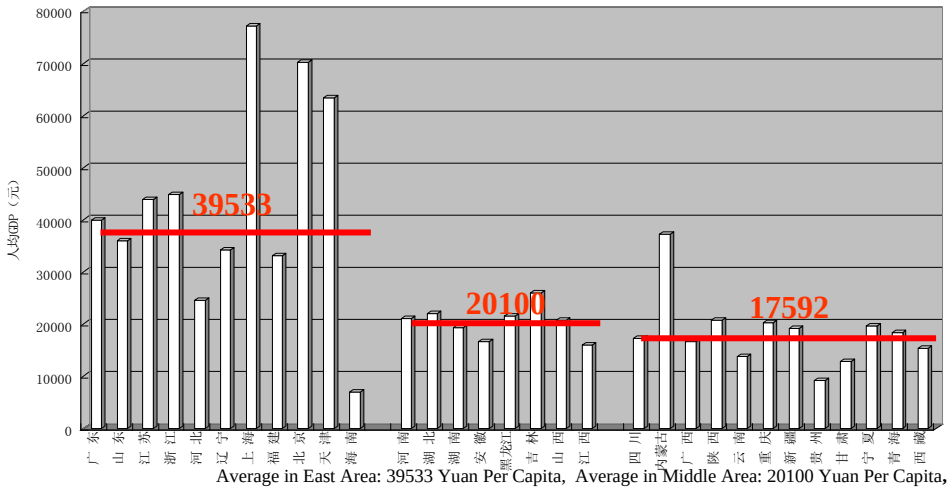
Per Capita GDPs in East, Middle and West Areas of China (2009)



Average in East Area: 39533 Yuan Per Capita, Average in Middle Area: 20100 Yuan Per Capita,
Average in West Area: 17592 Yuan Per Capita

Source: Beijing Normal University

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in Regional Development Planning (ECER)

1. Reduction of Spatial Disparities in China and

2. Ultimate Creation of Equivalent Living Conditions in the Regions of China

This is to be achieved by:

3. Qualification of Chinese Regional Development- and Transport Planners

4. Dialogue and Experience Exchange between Chinese and European Regional Development- and Transport Planners

5. Further Development of Chinese Planning- and Planning Law System

6. Establishment of a Core Network (Think-tank) “Regional- and Transport Development Planning” between China and Germany / Europe

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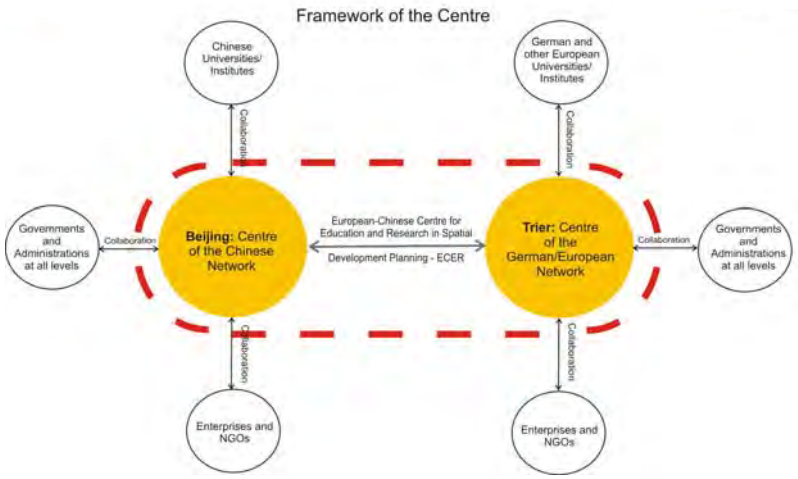

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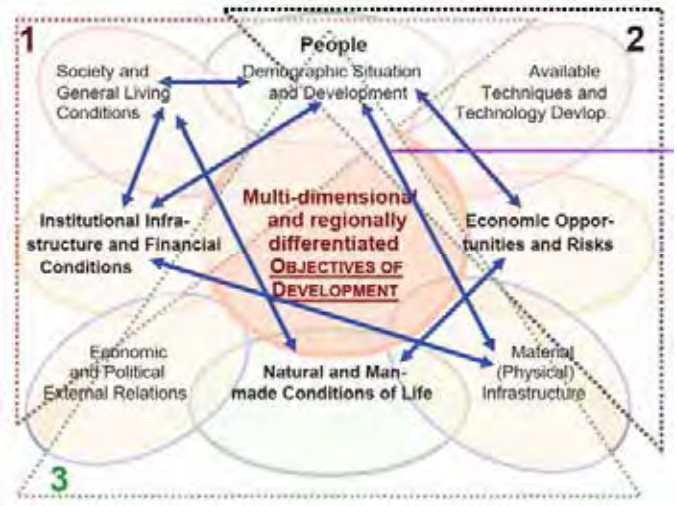
Academic Education



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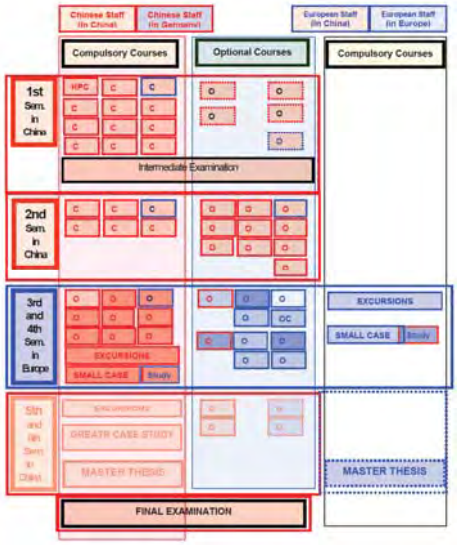
Academic Education



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Network of European Universities involved in "Academic Education" and "Research" in ECER

RWTH Aachen
Free University of Berlin
University of Bremen
Academy for Spatial Research and Planning, Hannover
University of Kaiserslautern
University of Luxemburg
University of Stuttgart
University of Trier

- Project Partners (obtained in the Project Identification Phase for ECER)
- Potential Partners (will be addressed in Regular Operation of ECER)

* University of Trier and ERA

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RWTH Aachen

European-Chinese Centre for Education and Research
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Free University of Berlin

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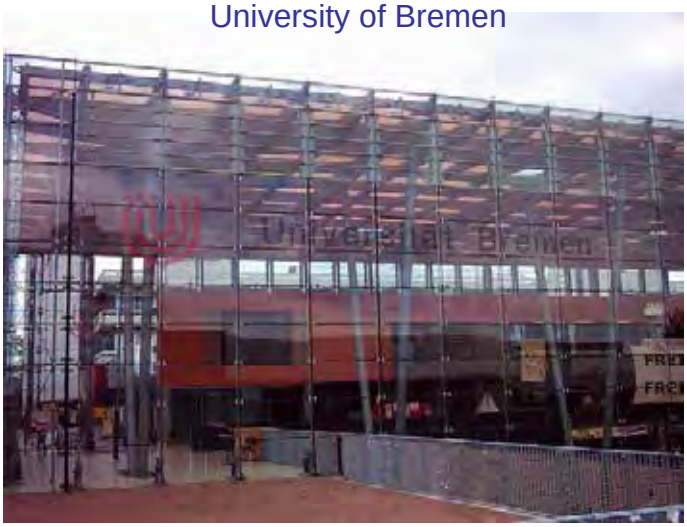
University of Bremen



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Academy for Spatial Research and Planning, Hannover

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

University of Kaiserslautern

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

University of Luxemburg , Campus Walferdange

European-Chinese Centre for Education and Research
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University of Stuttgart

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University of Trier

European-Chinese Centre for Education and Research
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Network of Chinese Universities involved in "Academic Education" and " Research" in ECER

- Project bearer and project partner of ECER in China
- Project partner (of BNU integrated universities)

Ranking*

1. Wuhan University
2. Sun Yat-sen University, Guangzhou
3. Beijing Normal University
4. Xiamen University
5. East China Normal University, Shanghai
6. Beijing Jiaotong
7. Yunnan University,Kunming

* alle im „985-Programm" oder „211-Programm"

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in Regional Development Planning (ECER)

Beijing Normal University

European-Chinese Centre for Education and Research
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Beijing Jiaotong University

European-Chinese Centre for Education and Research
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East China Normal University, Shanghai

European-Chinese Centre for Education and Research
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Sun Yat-sen University, Guangzhou

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Xiamen University

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Yunnan University

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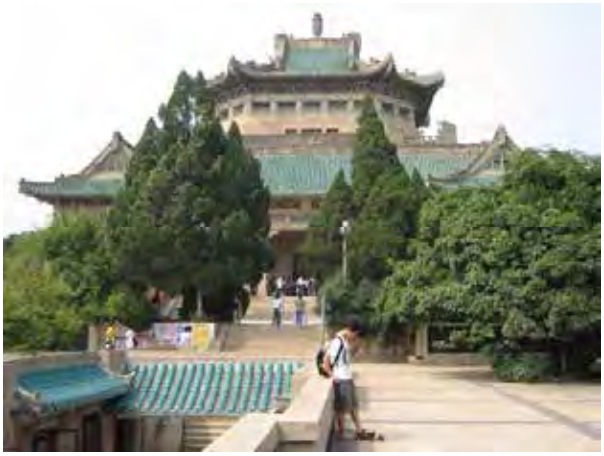
Wuhan University



European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Admission Capacity for Master's Students from China at Universities in Germany / Europe in the Network of ECER

	2011	2012	2013	2014	2015	Sum
RWTH Aachen	20	25	30	40	50	165
FU Berlin	20	20	30	30	35	135
University of Kaiserslautern	5	5	5	10	10	35
University of Luxemburg	5	5	5	10	10	35
University of Stuttgart	10	10	10	10	10	50
University of Trier	5	5	5	10	10	35
Sum	**65**	**70**	**85**	**110**	**125**	**455**

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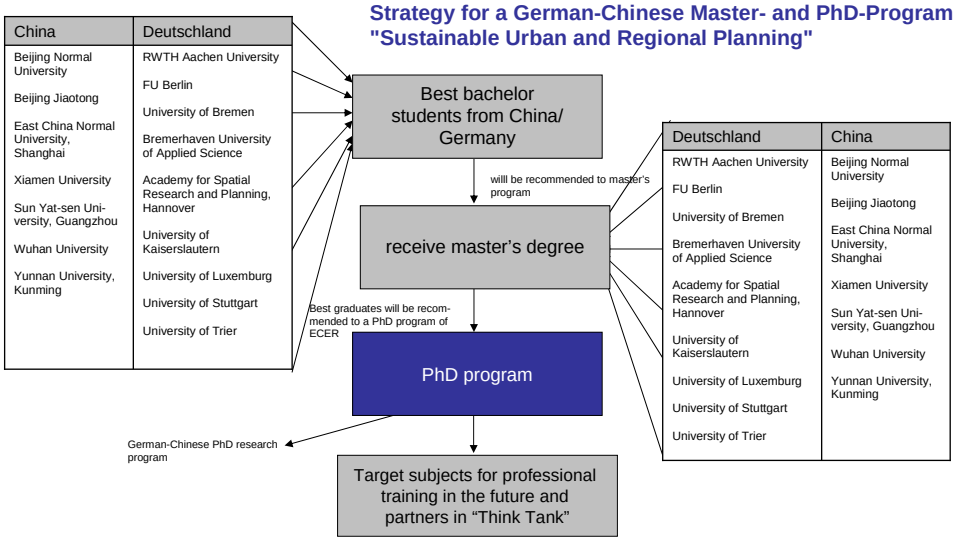
Strategy for a German-Chinese Master- and PhD-Program "Sustainable Urban and Regional Planning"



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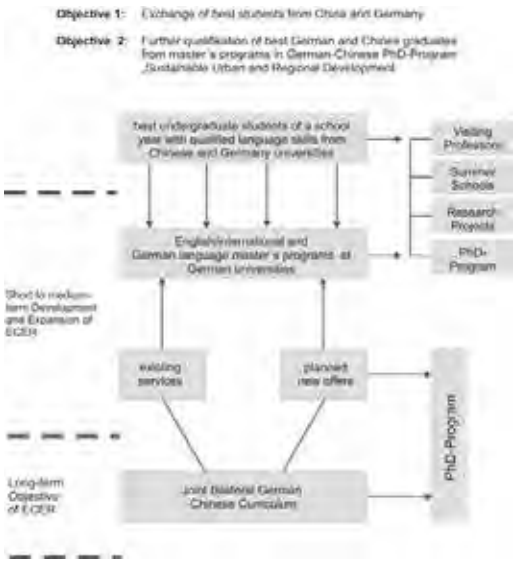
ECER Objectives and Structure of the Module "Academic Education"



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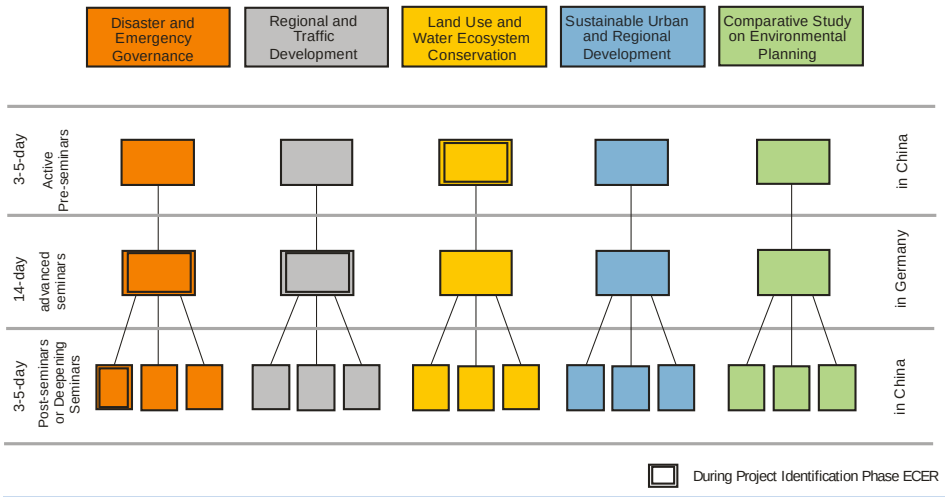
Module "Vocational Training" Themes and Structure



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Research Areas in "ECER"

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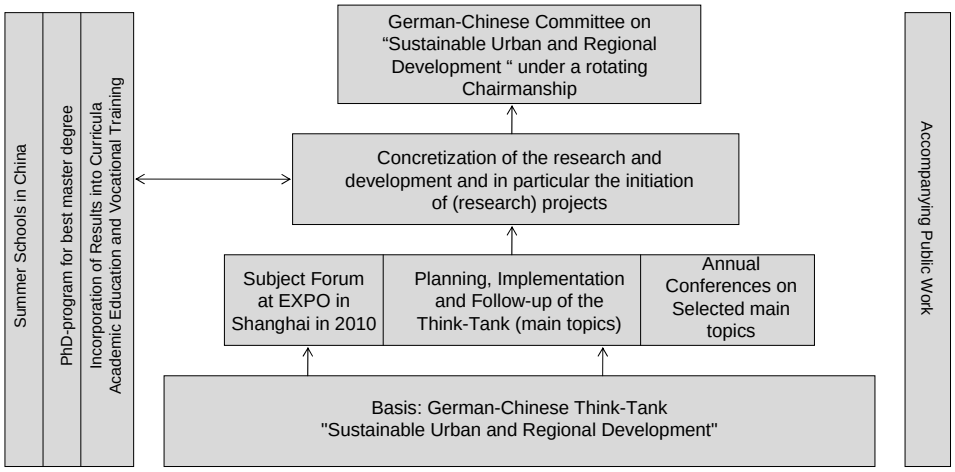
Module "Research" and Development Perspectives for ECER



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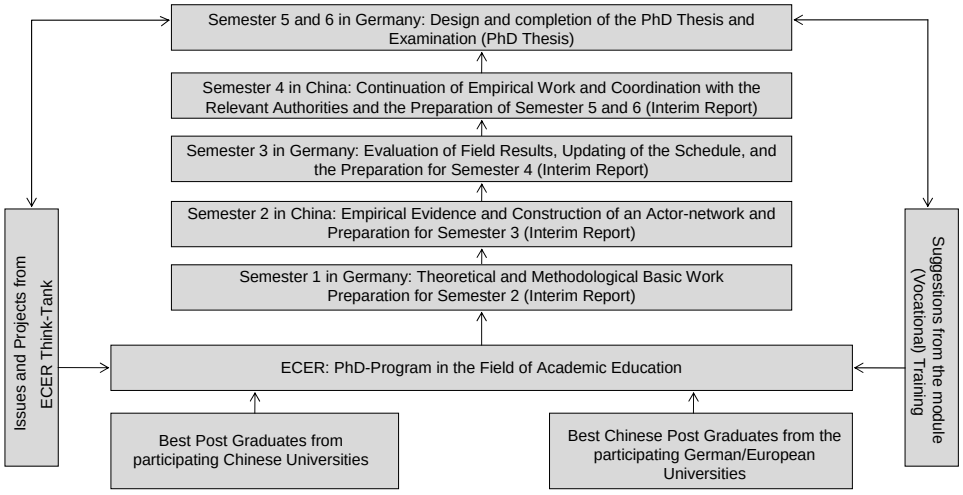
Connection of PhD-Program, Research and Training (I)



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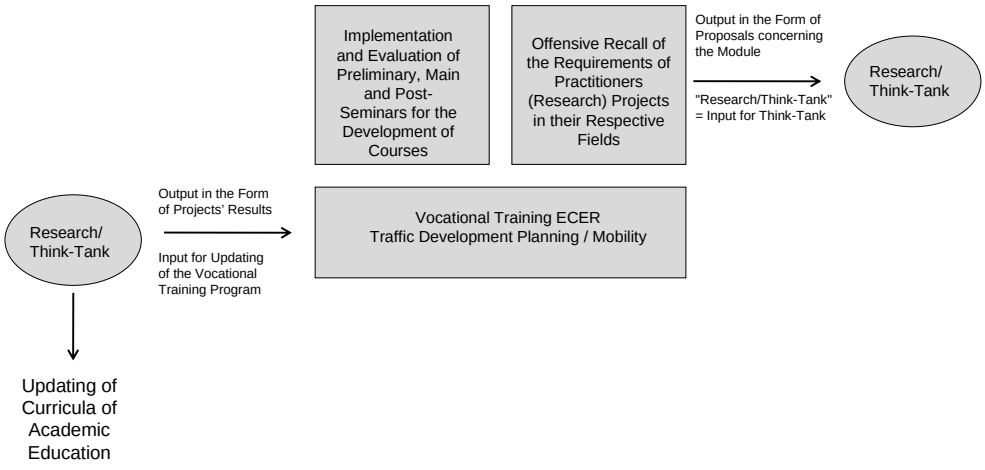
Connection of PhD-Program, Research and Training (II)



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in Regional Development Planning (ECER)

Research Topics:

1. Land use planning with ecosystem protection in river basins with rapid urbanization
2. Study on environmental planning in the context of the rural-urban integration
3. Inter-regional cooperation between urban and rural areas in the coastal areas of China - the case of the Yangtze River Delta
4. Natural disaster prevention and emergency management in tourism areas - the case of Lijiang, Yunnan Province
5. Study on the social integration of migrants in the context of urbanization
6. Eurasian transport corridors

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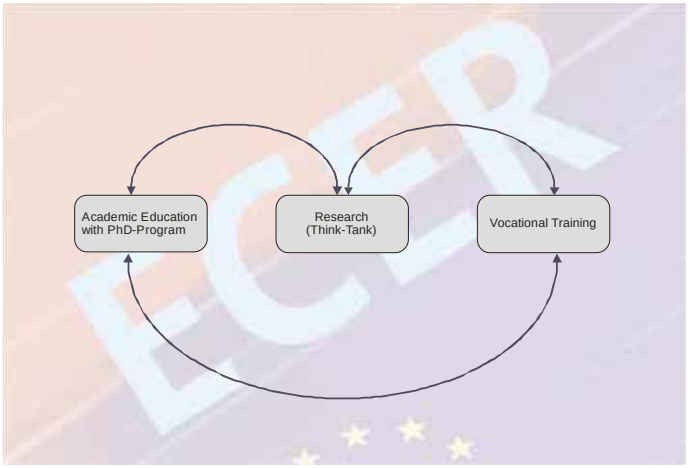
Integrative Approach of ECER



European-Chinese Centre for Education and Research
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Organizational Structure "ECER" in Germany

Strategic parent organization

Project Organization

Cooperation Level

European-Chinese Centre for Education and Research in Spatial Development Planning (ECER)

Cooperation Agreements

in the **Academic Education**
with: University Partners in Europe and China

in the **Vocational Training**
with: Partners in the Vocational Training in Europe and China

in the **Research (Think-Tank)**
with: European / Chinese Research Teams on selected Research Subjects in China

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Marketing

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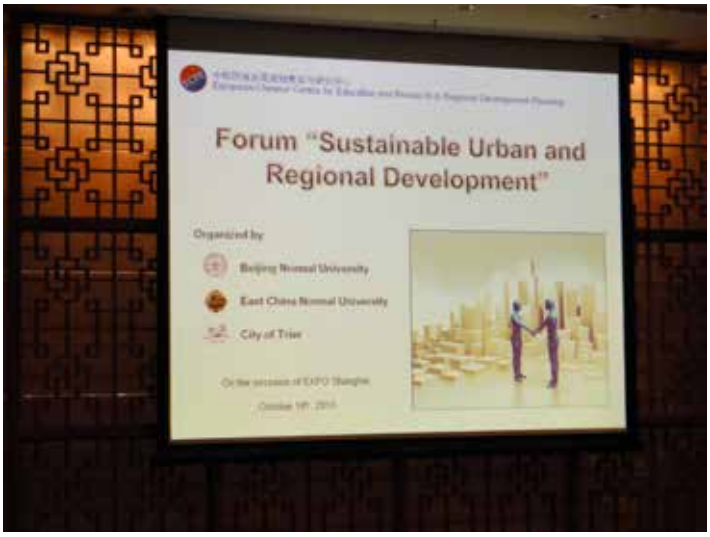

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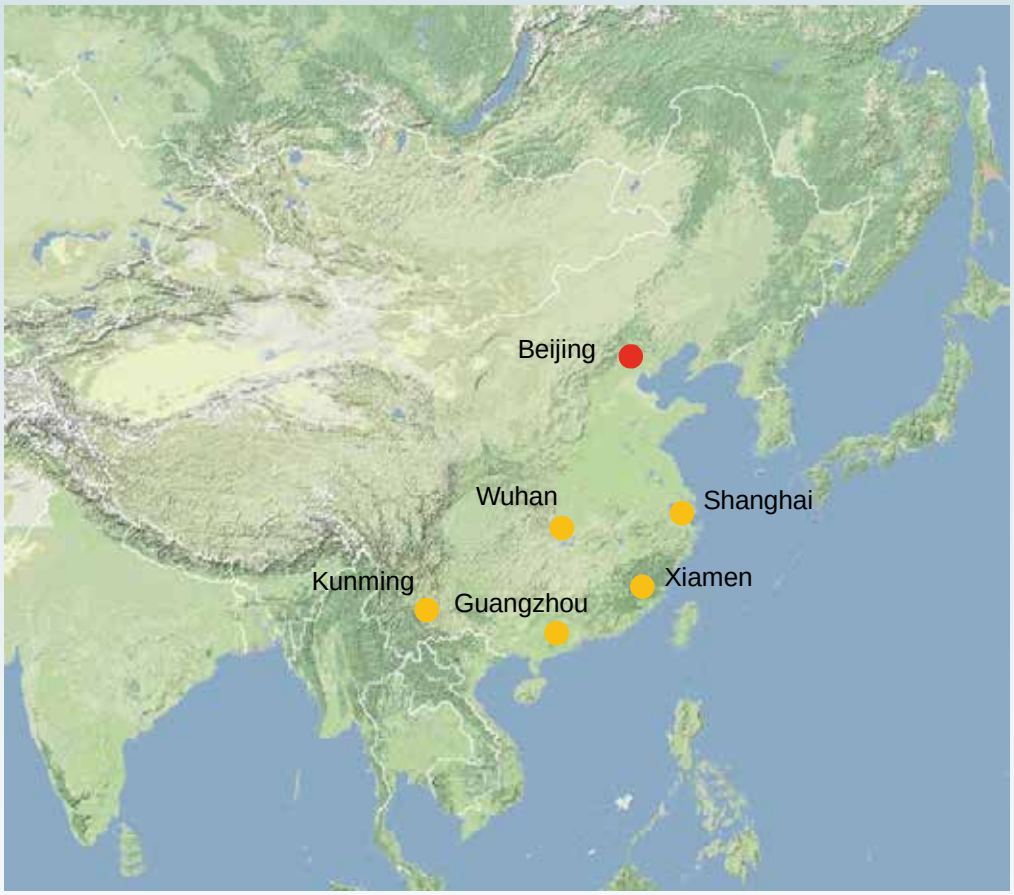
Network of Chinese Universities involved in “Academic Education” and “ Research” in ECER



European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

Beijing Normal University

Lecture:
Warmly Welcome to Beijing Normal University

Prof. SHI Peijun, Executive Vice President,
Beijing Normal University

BNU's Features

- One of the oldest Chinese universities
- Education Science and Teacher Education
- Research-intensive
- Comprehensive


Normal refers to institutions that aims to train school teachers, originating from the French word normale in École Normale Supérieure of Paris.

www.bnu.edu.cn

BNU's Features

www.bnu.edu.cn

BNU's Features

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BNU's Features

❖ University Motto

Learn,
so as to instruct others,

Act,
to serve as example to all.

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BNU's Placement

BNU is among:

- **701 Chinese universities (4-years and more)**
- **105 State-Project-211 universities**
- **72 universities supervised by MOE**
- **38 State-Project-985 universities**

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BNU's Placement

Notable Rankings

1. from 8th – 20th across different university rankings
2. 1st in Education, Psychology, Chinese Language and Literature ,Geography(2009 MoE ranking)
3. 15 disciplines among top 10 (2009 MoE ranking)

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Where Are We?

In the Capital of China

- 1453km to Shanghai
- 2160km to Hong Kong
- 2126km to Tokyo
- 8000km to London
- 11000km New York

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BNU's Location

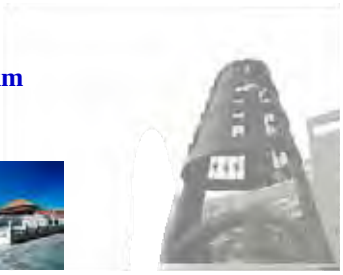
65km

28km

BNU

2km

8km



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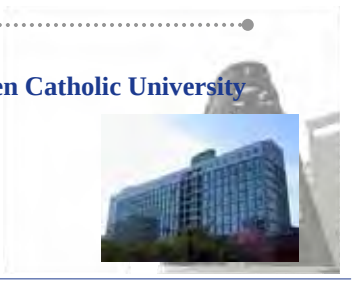
BNU's Brief History

1902 — 1902, Founded (Faculty of Education, Capital Metropolitan University)

1923 — 1923, Renamed as Peking Normal University

1931 — 1931, Merged with Beiping Women's College of Education

1952 — 1952, Merged with Fu Jen Catholic University



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BNU's Academic Institutions

- 1 Faculty
- 24 Colleges and Schools
- 3 Departments
- 17 Research institutes and centers

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BNU's Academic Programs

- 100 Doctoral Programs
- 162 Master Programs
- 55 Bachelor Programs
- 18 Post-doctoral Programs

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BNU's Faculty and Staff

- Faculties: 1681
- 170 faculties received PhD degree from foreign universities
- Professors: 602, Associate Professors: 610
- Academicians of Science and Engineering:19

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BNU's Students

- Full-time: 19543
- Undergraduate: 8611
- Graduate: 9900
- Part-time students:31649
- International: Long-term:1776

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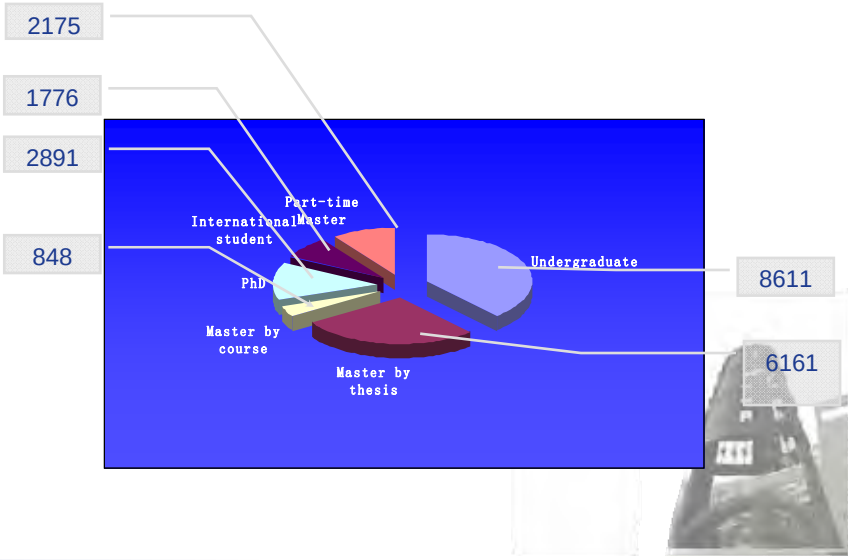
BNU's Students



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BNU's Research Strength

National Key Disciplines(One Level)

Education,
Psychology
Chinese Language and Literature
Mathematics
Geography

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BNU's Research Strength

National Key Disciplines(Two Level)

- Ancient Chinese History
- Cell Biology
- Ecology
- Folklore
- Environmental Science
- Marxist Philosophy
- Physical Chemistry
- System Science
- Theoretical Physics
- Historiographic Theory and History of Historiography
- Educational Economics and Administration

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BNU's Research Strength

State Key Laboratories

- Cognitive Neuroscience and Learning
- Earth Surface Processes and Resource Ecology
- Remote Sensing Science
- Water Environment Simulation and Control

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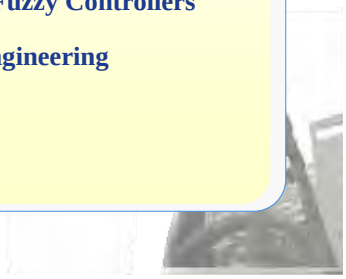
BNU's Research Strength

Key Laboratories of Ministry of Education

- Beam Technology and Material Modification
- Cell Proliferation and Control
- Environment Change and Natural Disasters
- Fuzzy Information Processing and Fuzzy Controllers
- Organism Diversity and Ecology Engineering
- Water and Sediment Sciences
- Radiopharmaceuticals



www.bnu.edu.cn

BNU's Affiliated Schools

- Experimental Kindergarten
- Experimental Primary School
- First Experimental High School
- First Experimental High School
- Second Experimental High School
- Third Experimental High School

www.bnu.edu.cn

BNU's Branch Campus

BNU's Internationalization

International sister universities:

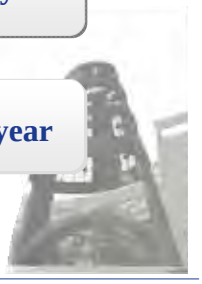
300 plus in 34 countries and regions.

International visiting scholars:

400-450/year

Faculties going abroad:

1000/year



BNU's Internationalization

Notable Programs

- University of California System, USA:
  Faculty and student exchange
- George Mason University:
  1+2+1 Double Bachelor Degree Program
- Dartmouth College:
  Foreign Study Program at BNU
- Sim University, Singapore:
  Master and Bachelor program on Chinese
- Princeton University, USA:
  "Princeton-in-Beijing" program
- SOAS, University of London, UK:
  Chinese study program

www.bnu.edu.cn

English-Taught Master Programs

Educational Management and Leadership

Faculty of Education

Environment Science and Technology

School of Environment

World Economy and China

School of Economic and Business Administration

www.bnu.edu.cn

English-Taught Master Programs

Contemporary Development of China

All courses are taught in English by top Chinese and foreign scholars of development studies, and by high-level Chinese policymakers in their relevant fields.

This program aims at fulfilling the educational goal of training future policymakers, scholars and practitioners of social development and public policy.

We want to end the poverty
We want more social justice
We want economic growth focus on improving human well- being
We want…

www.bnu.edu.cn

Confucious Institutes

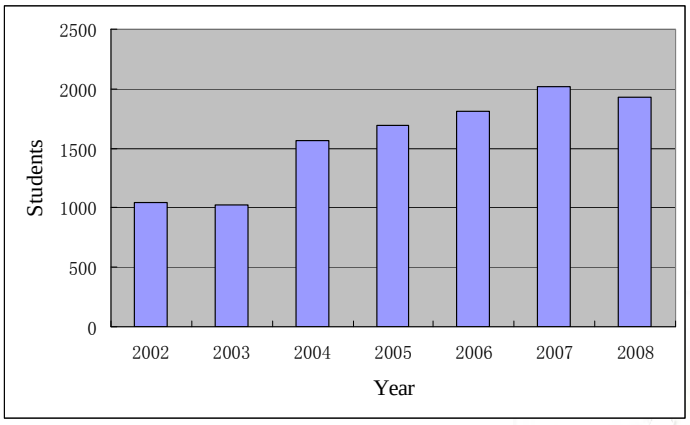
- **The University of Manchester, UK**
- **San Francisco State University, USA**
- **The University of Oklahoma, USA**
- **University de Sherbrooke & Dawson College, Canada**
- **Aalborg University, Denmark**
- **Università di Macerata, Italy (planning)**
- **College of William and Mary, USA (planning)**

www.bnu.edu.cn

Confucius Institutes

www.bnu.edu.cn

BNU's International Students



Since 2002, BNU's International Students population has a substantial increases. Now it is stabled around 2000.

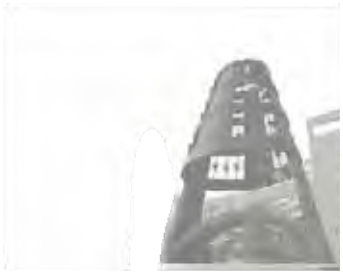
www.bnu.edu.cn

Student's Activities

Majors related to "Sustainable Urban and Regional Development" in Beijing Normal University

ECER involved BNU Colleges and Schools

- Academy of Disaster Reduction and Emergency Management,MoC and MoE
- College of Resources Science & Technology
- School of Geography
- School of Environment
- School of Social Development and Public Policy
- School of life Science



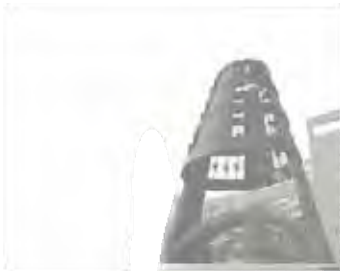
Majors at undergraduate level

- Resources Science and Engineering
- Geography
- Urban and Rural Planning & Resource Management
- Geographical Information System
- Environmental Sciences
- Environmental Engineering
- Ecology

Majors at graduate level

❖ **Geography**

- **Physical geography (also at PhD level)**
- **Human geography (also at PhD level)**
- **Cartography and Geography Information System (also at PhD level)**
- **Natural Resources (also at PhD level)**
- **Global Environmental Change (also at PhD level)**
- **Natural Disaster (also at PhD level)**



Majors at graduate level

❖ **Surveying and Mapping**

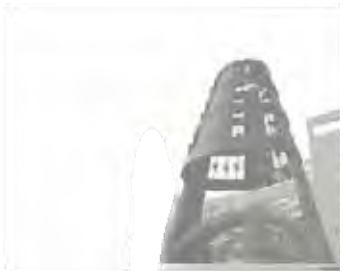
- **Photogrammetry and Remote Sensing**
- **Cartography and Geography Information Engineering (PhD level in application)**

❖ **Safety Technology and Engineering**

- **Disaster Prevention and Reduction Engineering (PhD level in application)**

Majors at graduate level

- **Economics**
  - Regional Economics
  - Population, Resources and Environmental Economics
- **Biology**
  - Ecology (also at PhD level)
- **Forestry**
  - Soil and Water Conservation and Desertification Combating

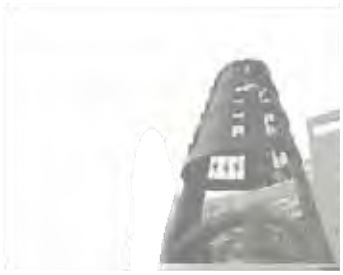


Majors at graduate level

- **Hydraulic Engineering**
  - Hydrology and Water Resources
  - Hydraulics and River Dynamics
- **Environmental Science & Engineering**
  - Environmental Science (also at PhD level)
  - Environmental Engineering (also at PhD level)
  - Environmental Ecology (also at PhD level)

Majors at graduate level

- **Science of Public Management**
  - **Social Medicine and Health Management (also at PhD level)**
  - **Social Security (also at PhD level)**
  - **NGO Management (also at PhD level)**
  - **Social Policy**
  - **Land Resources Management (also at PhD level)**



北京師範大學

Thank You !

Profile of the University of

Beijing Normal University (Beijing, China)

Beijing Normal University (BNU) has a history of more than 100 years, which is almost as long as the history of Chinese modern education. The University grew out of the Faculty of Education, Capital Metropolitan University established in 1902, which initiated teacher training in Chinese higher education. After several times of merging and reforming since 1949, especially in the 1980s, Beijing Normal University has moved into the new age of rapid development.

After the development for over a century, Beijing Normal University has become a comprehensive and research intensive university with its main characteristics of basic disciplines in science and humanities, teacher education and educational science. BNU is member of “Project 211” and “Project 985”. In the year 2010, BNU ranked as the 9th best among the universities and colleges in China by Netbig. The University has 16 national key disciplines. In the Ministry of Education 2009 evaluation, Chinese Language and Literature, Education, Psychology are ranked 1st in China; Geography, System Science ranks 2nd; History 3rd; Art, Mapping Science and Technology 4th; Forestry, Astronomy 5th; Mathematics, Public Management 6th; Information & Archive Management , Philosophy, Sports Education 7th.

BNU always attaches great importance to international exchange and cooperation. At present, the university has established cooperative ties with over 300 universities and international organizations from more than 40 countries and regions. In the past 3 years, hundreds of BNU students have studied abroad on exchange programs, internship programs, collaborative programs and degree programs. Each year, about 600 international professors and scholars are invited to lecture and research at the university and over 1000 BNU faculty members go abroad for international conference and cooperative research. The University has around 2000 long-term international students from 69 countries and regions, the scale of which ranks among top in Chinese universities. Of the long-term foreign students at BNU, 65% are studying for a degree. The work on teaching Chinese as foreign language undertaken by BNU is among the best in China.

At present, they are 1 faculty, 24 Colleges and Schools, 3 Departments and 17 research institutes and centers at the university. Among which the **College of Resource Sciences & Technology**, **School of Environment**, **School of Geography** and **Academy of Disaster Reduction and Emergency Management** is now working closely with ECER.

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

Beijing Jiaotong University

Lecture:
Promote the European-Chinese Cooperation on the Education and Research Of Traffic and Transportation

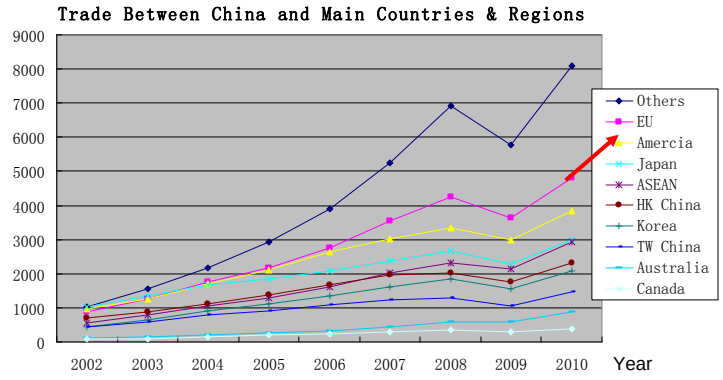
Prof. Dr. Xingchen Zhang, Vice President
Beijing Jiaotong University


Promote the European-Chinese Cooperation
on the Education and Research
0f Traffic and Transportation
推进中欧在交通运输领域的教育与研究合作
Dr. Xingchen Zhang
Prof., Vice President
Beijing Jiaotong University


Agenda 主要内容
Focus on the future 20 years
目光聚焦在未来20年
Condition of BJTU
北京交通大学的基本情况
Corporation Content
可以开展的合作内容
Corporation Form
开展合作的组织形式

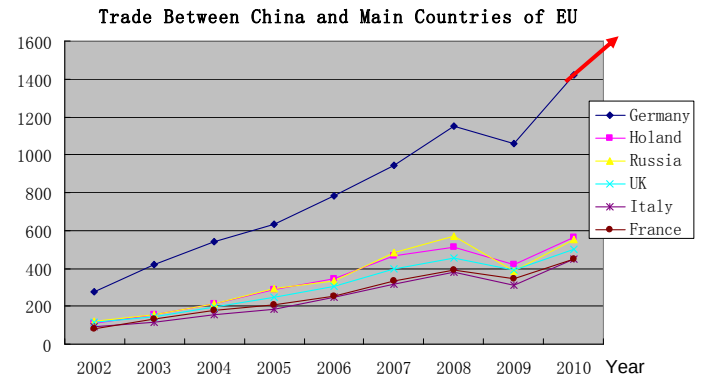
1. Focus on the future 20 years
目光聚焦在未来20年

- EU is the biggest trading partner of China in the world.
  中国和欧盟是当今世界的两大经济体，双方经贸合作稳步发展。



Trade Stat. Between China & Germany
中德贸易统计

- Germany is the biggest trading partner of China in EU.
  德国又是中国在欧盟中的最大贸易伙伴。



Transportation between China and EU
中国与欧盟之间的运输

- The main transportation tools are the ocean shipping and the Asia-Europe Continental Bridge on the development of Asia-Europe economy and trade.

  在中欧经济贸易发展中，主要的运输工具是海运和亚欧大陆桥运输。

Good Foreground
美好的前景

- In the future, the trade volume between China and EU will continue to grow.

  在未来20年，中欧、中德的经济贸易将在目前的基础上持续发展。

- Transportation is the bridge for bilateral trade and economy between China and EU, also the bridge for personal come-and-go.

  交通运输是连接中欧、中德之间经济贸易和人员往来的重要桥梁。

- Our ideas should be undertaken by more people and need their involvement. Therefore, they can come true.

  我们今天的思想需要更多的人接受，并参与到工作中来，共同去做才能实现我们的设想。

- Cooperation on the education and training of traffic and transportation is the important mean to spread our ideas.

  加强交通运输领域的教育和培训是传播我们思想的重要手段。

2. Condition of BJTU
合作的基础

- The predecessor of Beijing Jiaotong University was one of the three origins of the Jiaotong Universities which has 5 sisters in Beijing, Shanghai, Xi'an, Chengdu, and Hsinchu nowadays.

  北京交通大学前是交通大学的三支源头之一，现在北京、上海、西安、成都和新竹有五所姊妹学校。
- In 2011, the University celebrated the 115th Anniversary.

  2011年，建校115周年庆祝活动。

Beijing Jiaotong University
北京交通大学

- 13 Schools and Departments:
  - Electronics and Information Engineering
  - Traffic and Transportation
  - Economics and Management
  - Computer and IT
  - Civil Engineering
  - Electrical Engineering
  - Mechanical Engineering
  - Humanities and Social Sciences
  - Foreign Languages and Mass Communication
  - Science
  - Software
  - Architecture and Fine Arts
  - Distance Learning and Continuing Education

Beijing Jiaotong University
北京交通大学

- Staff and Students
  师生
  - 2,800 staff members in total
    教职工2800人
  - more than 990 professors and associate professors
    教授、副教授990多人
  - Full-time students in total 22,000
    全日制在校生
  - International students 450
    留学生
  - Undergraduate 14,000
    本科生
  - Master's 6,000
    硕士研究生
  - Doctoral 2,000
    博士研究生

Beijing Jiaotong University
北京交通大学

- National Key Disciplines
  国家重点学科8个
  - Traffic and Transportation Planning and Mgmt
    交通运输规划与管理.
  - Traffic Information Engineering and Control
    交通信息工程及控制
  - Communication and Information Processing
    通信与信息处理
  - Information and Signal Processing
    信息与信号处理
  - Industrial Economics
    产业经济学
  - Road and Railway Engineering
    道路与铁道工程
  - Transportation Tools Application Engineering
    载运工具运用工程
  - Bridge and Tunnel Engineering
    桥梁与隧道工程

Beijing Jiaotong University
北京交通大学

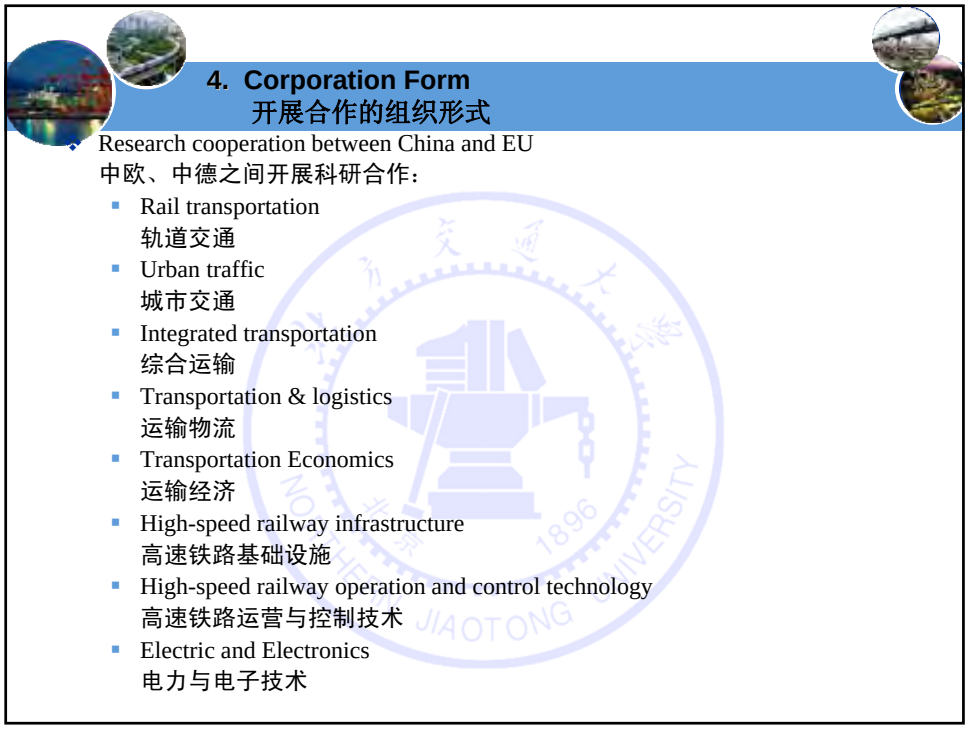
- National Key Research Platforms
  国家重点学科平台
  - National Key Lab of Rail Transport Control and Safety
    轨道交通控制与安全国家重点实验室
  - National Engineering Center of Rail Transport Operation Control System
    轨道交通运行控制系统国家工程研究中心
  - National Engineering Lab of High-speed Railway System Experiment
    高速铁路系统试验国家工程实验室
  - National Engineering Lab of Next Generation Internet Networking Equipment 下一代互联网互联设备国家工程实验室
  - “985” Strength Discipline Innovation Platform of Rail Transport Safety Science and Technology
    轨道交通安全科学与技术 “985”优势学科创新平台

3. Corporation Content
可以开展的合作内容

- Cultivation of internationalization students and others
  培养国际化人才
  - Students
    学生
  - Teachers
    教师
  - Engineers
    工程师
- Research cooperation between China and EU
  中欧、中德之间开展科研合作

4. Corporation Form
开展合作的组织形式

- Set contract on education and training among universities
  建立学校之间的教育和培训协议
- The students come to China or go to EU to training, study and visit
  欧州学生来中国或中国学生去欧洲培训、学习、参观
  - Short-time exchange
    短期交流
  - Course study
    课程学习
  - Degree education
    攻读学位
- EU experts come to China or Chinese experts go to EU to training and visit in universities and enterprises
  欧洲的专家到中国或中国的专家去欧洲讲学、授课
  - Short-time exchange
    短期交流
  - Teaching Course
    讲授课程
  - Training
    培训



4. Corporation Form
开展合作的组织形式

- Research cooperation between China and EU
  中欧、中德之间开展科研合作：
  - Rail transportation
    轨道交通
  - Urban traffic
    城市交通
  - Integrated transportation
    综合运输
  - Transportation & logistics
    运输物流
  - Transportation Economics
    运输经济
  - High-speed railway infrastructure
    高速铁路基础设施
  - High-speed railway operation and control technology
    高速铁路运营与控制技术
  - Electric and Electronics
    电力与电子技术


ECER
BEIJING JIAOTONG UNIVERSITY
THANK YOU

Profile of the University of

Beijing Jiaotong University (Beijing, China)

Beijing Jiaotong University (BJTU) is a national key university under the direct administration of the Ministry of Education and jointly sponsored by the Ministry of Education and the Ministry of Railways. The founding history of BJTU can be traced back to 1896. The predecessor of BJTU is Beijing Railway Management Training Institute, established in late Qing Dynasty. BJTU is one of the first universities in China authorized to confer master and doctoral degrees autonomously, accepted into the National 211 Project, and approved to build National 985 Strength Discipline Innovation Platform. In June 2004, BJTU was approved by the Ministry of Education to establish the Graduate School and became one of the 56 universities that feature a graduate school. In 1997 and 2006, BJTU was appraised as a National Excellent University in Undergraduate Education. In 2005, BJTU became one of the demonstration project universities for college English education reform of the Ministry of Education.

The University is located in Beijing Haidian District, which is known as China's "Home of Higher Education". The campuses have complete facilities and beautiful environment. Today, besides the Graduate School and the School of Distance Learning and Continuing Education, the University has 13 academic faculties, among which the **School of Traffic and Transportation** is preparing cooperation with ECER. There are also 2 vocational institutes (Yanjiao and Qinghe). The industry-sponsored independent college – BJTU Haibin College – in Huanghua, Hebei has been approved by the Ministry of Education and started enrollment since Fall, 2008.

Now the University has 1,706 faculty members, including 942 professors and associate professor. There are 3 members of Chinese Academy of Science and 7 members of Chinese Academy of Engineering, 4 members of the disciplinary evaluation team of the Degree Affairs Committee of the State Council, and 3 chief scientists of the "National 973 Project". The University won 1 grand prize, 2 first prizes and 13 second prizes of national teaching awards, and such honors as 32 national select courses, 8 national teaching teams, and 4 national renowned teachers.

Through the past decade or so, the University has fostered more than 100,000 talents for the nation. Now the University has 13,822 undergraduate students, 2,270 doctoral students and 6,429 master's students. There are also over 600 international students.

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

East China Normal University

Lecture:
ECNU “3-III” Development Strategies , and Future PhD Programs to Join in the Network “ECER”

Prof. /Ph.D Liu Min,
Vice Dean of Graduate School, East China Normal University

中欧区域发展规划教育与研究中心
European-Chinese Centre for Education and Research in Regional Development Planning

ECNU "3-III" Development Strategies , and Future PhD Programs to Join in the Network "ECER"

Prof./Ph.D Liu Min, Vice Dean of Graduate School, East China Normal University(ECNU)

2011.10.22-29, Germany

1. ECNU 3-III Development Strategies Framework in the Process of International Education & Research

INNOVATION: The University aims to foster students with innovative consciousness in their study and research.

INTERDISCIPLINE: The University strives to all its efforts to facilitate interdisciplinary study and research.

INTERNATIONALIZATION: The University aims to strengthen its international education in order to bring in new ideas in curriculum development, research means, etc. as well as facilitate the progress of joint research.

2. Currently ECNU International Cooperation Programmes

- **China—France Cooperation Program** (with Group Ecole Normale Suprieure in France since 2002, including , ENS Paris, Cachan, Lyon, and Literature & Humanities).
- **CSC Ph.D Program (100 –person Program for 985) .**
- **New York University at Shanghai.**(Admission from 2013).
- **Others,** e.g. ECNU International Educational Campus.
- **ECER for Ph.D Program.**

2.1 Basic Information: Number of Persons Coming from Abroad

During 2007~2011, ECNU has in total accepted 653 persons, including 159 persons for doctoral program and 494 for master program.

Year	Doctoral Degree	Master Degree	Total
2007	8	20	28
2008	16	14	30
2009	36	168	204
2010	42	138	180
2011	57	154	211
Total	159	494	653

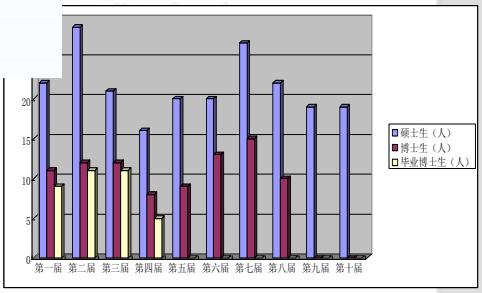
2.2 Basic Information: Number of Persons Studying Abroad

During 2007~2011, ECNU has in total enrolled 524 persons, including 176 persons for doctoral program and 345 for joint cultivation from CSC.

Year	Doctoral Degree	Joint Cultivation of Doctor Students	Total
2007	6	95	101
2008	40	65	105
2009	72	61	133
2010	28	64	92
2011	51	42	93
Total	176	345	524

2.3 Basic Information: Sino-Franch Joint Cultivation Postgraduates Program Since 2002

Year	MSc Graduated	PhD	PhD Graduated
2002	22	11	9
2003	29	12	11
2004	21	12	11
2005	16	8	5
2006	20	9	/
2007	20	13	/
2008	27	15	/
2009	22	10	/
2010	19	/	/
2011	19	/	/
Total	215	90	36



3. Specialities/Disciplines and Researches Related to ECER Ph.D Program

3.1 Course and credits

- Master's credit: 35 total credits, including not less than 29 requested courses, and 6 credits selected courses.3-6 school years in duration.
- Doctorate credit: 18 total credits, including requested courses, and selected courses.3/4-6 school years in duration

Course and credits for Science Master's Cultivation(Total 35 credits)

COURSE		CREDIT	Lowest course number
Requested course	Degree general courses	8	2
	Degree basic courses	9	3
	Degree specialty courses	10	4
Selected course	Specialty selected courses	4	2
	Interdisciplinary or interspecialty courses	2	1
Practiced and academic training course	Practice and academic training courses	1	1
Academic seminar	Academic lectures	1	1

Course and credits for Art Master's Cultivation(Total 38 credits)

COURSE		CREDIT	Lowest course number
Requested course	Degree public courses	10	3
	Degree basic courses	9	3
	Degree specialty courses	10	3
Selected course	Specialty selected courses	4	2
	Interdisciplinary or interspecialty courses	2	1
Practiced and academic training course	Practice and academic training courses	2	2
Academic seminar	Academic lectures	1	1

Course and credits for PhD Cultivation(not less than 18 credits)

COURSE		CREDIT	Lowest course number
Requested course	Degree general courses	7	4 credits for foreign language course;3 for politics course
	Degree specialty courses	6	2 courses
	Academic seminar and lectures	1	Not less than 1 credit
Selected course	Specialty selected courses	2	
	Interdisciplinary or interspecialty courses	2	
Academic training and capacity course	Practice and academic training courses		
Academic seminar and publication requirements	Academic lectures, and papers published		

Course and credits for Undergraduate –Doctoral Cultivation(not less than 35 credits)

COURSE		CREDIT	Remark
Requested course	Degree public courses	7	Foreign Language 4 credits; Politics 3 credits
	Specialty requested courses	12	Specialty foreign language 1 credit
Selected course	Specialty selected courses	12	
	Interdisciplinary or specialty selected courses		Not less than one course
Practiced course	Practice and academic training courses	4	Teaching practice or academic and project researches
			2 times for academic seminar presentation; not less than 30 times for participating academic meeting and symposium

Schools /Departments	Undergraduate Specialty	Disciplines and Postgraduate Programmes
School of Public Administration	Management of Public Administration	Educational Economics and Management
School of Business	Economics	World Economics
		Industrial Economics
	Finance	
	International Economy & Trade	
	Information Management & System	
	Tourism Management	
	Business Management	
School of Life Sciences	Biological Sciences	Ecology
	Biotechnology	
School of Resources and Environmental Sciences	Geography	Physical Geography
		Meteorology
		Estuarine and Coastal Researches
		Harbor, Coastal and Inshore Engineering
	Geographical Information Sciences(GIS)	Cartography and GIS
	Urban and Rural Planning & Resource Management	Regional Economics
		Human Geography
		Demography
		Population, Resources and Environmental Economics
	Environmental Sciences	Environmental Sciences
		Environmental Engineering
School of Sociology & Development	Sociology	Sociology
	Social Work	Social Work and Management

3.2 New Changes for Doctoral Program Recruitment

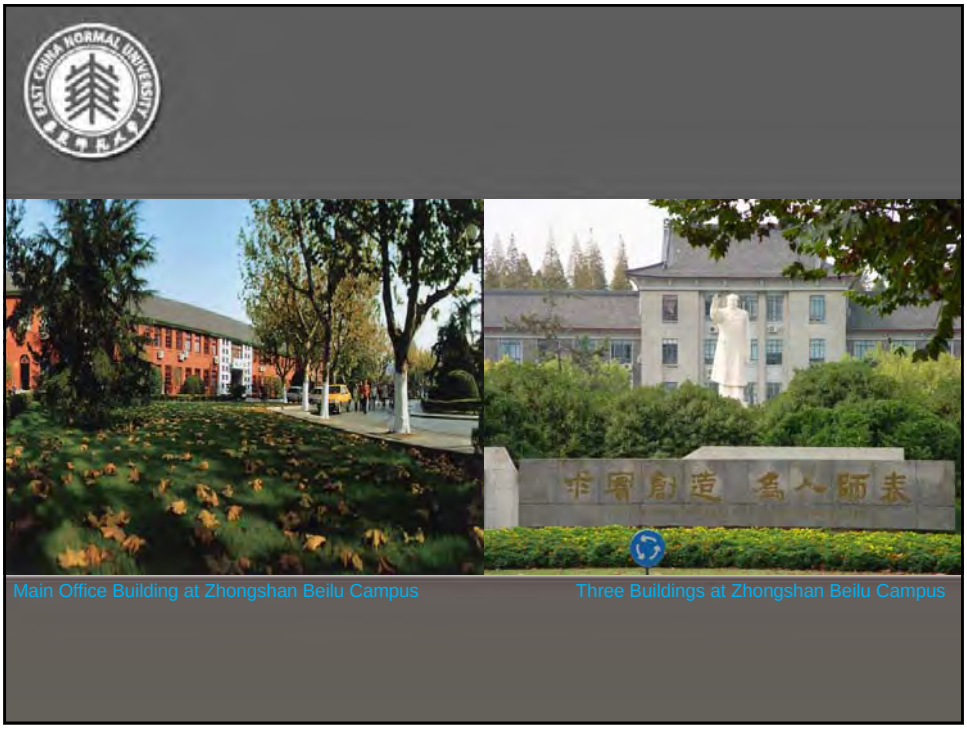
- ECNU: Doctoral application system (DAS) partially in PhD recruitment from the beginning of 2012,e.g.Physical geography and GIS in Geography.
- MoE&CSC: 50% Candidates of PhD Program from China Scholarship Council (CSC) has opened to the other Universities including 211- Program Universities from this year. e.g. ECNU has 60 candidates (for PhD Degree).

3.3 Academic Research Related to ECER Ph.D Program , Sustainable City and Regional Development—A multidisciplinary program

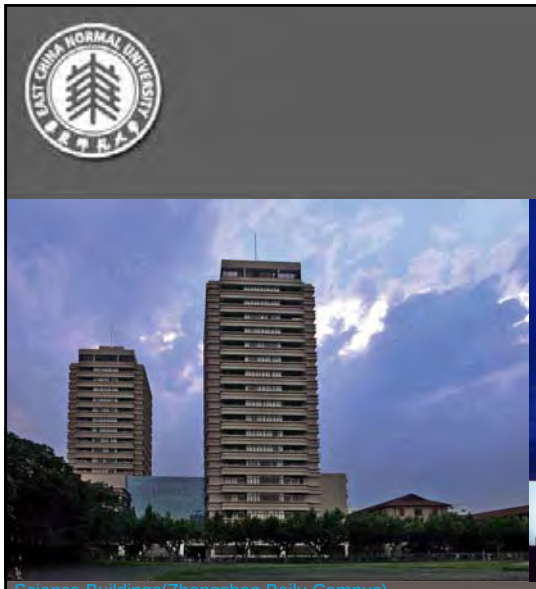
- Urban Physical Geography: Coupling and response of water, soil, air and biological elements in urban ecosystem;
- The Yangtze Delta City Group Study and Integration;
- Environmental, Ecological, Healthy and Safe Problems in the Process of Urbanization;
- City Disaster Risk Scenario Simulation and Projection;
- Urban Sustainable Development and Regional Economy;
- Urban Planning, Management, Government and Modeling;
- GIS-based Landscape Analysis and Land Use Planning;
- Urban Ecology;
- Urban Geography and Urban Economy;
- Urban Sociology;
- Urban Eco-Environmental Education;
- Urban Cultural-Art Originality/Innovation and Design, etc.


一校两区的办学模式
中山北路校区
闵行校区


Chinese-History Building at Zhongshan Beilu Campus
Administration Building at Minhang Campus


EAST CHINA NORMAL UNIVERSITY
Main Office Building at Zhongshan Beilu Campus
Three Buildings at Zhongshan Beilu Campus


EAST CHINA NORMAL UNIVERSITY
Library –Yifu Building at Zhongshan Beilu Campus
University Library at Minhang Campus



Science Buildings(Zhongshan Beilu Campus)

University Gate (Zhongshan Beilu Campus)

Campus Bird's Eye View (Zhongshan Beilu Campus)

Campus Bird's Eye View (Minhang Campus)


Gymnasium at Zhongshan Beilu Campus
Gymnasium at Minhang Campus


Liwa River at Zhongshan Beilu Campus
Yingtao River at Minhang Campus

ECNU will strengthen cooperation with other top universities in the ECER network

Dr. Weinand and President Yu Lizhong in 2010 Shanghai Forum

Dr. Weinand, President Yu Lizhong and , Executive Vice President Shi Peijun in 2010 ECER Forum

Thank You !!!

Profile of the University of

East China Normal University (Shanghai, China)

East China Normal University, founded in 1951 with a heritage from former Great China University, which dates back to 1924, and Kwang Hua University etc., and officially graded as one of the first 16 National Key Universities in 1959, is one of leading universities with profound culture and high reputation in China.

Although teacher education is still of significance in ECNU, as its name indicates, it is now a rising multidisciplinary research university sponsored by major Chinese research and education programs (e.g.211 and 985).

At present, there are 19 full-time colleges and schools with 55 department and 67 disciplines for undergraduate studies at the University, including humanities, social sciences, economics, law, education, management, science and engineering.

The 19 colleges and schools are as follows: School of Humanities and Social Sciences, School of Social Development, School of Teaching Chinese as a Foreign Language, School of Foreign Languages, School of Education Science, School of Pre-school Education and Special Education, School of Psychology and Cognitive Science, School of Physical Education and Health Care, School of Business, School of Finance and Statistics , School of Public Administration, School of Communication, School of Art, School of Design, School of Science and Engineering, School of Resources and Environmental Science, School of Life science, School of information Science and Technology, School of Software Engineering.

Currently, there are nearly 4,000 faculty and staff members working at University. Faculty members amount to nearly 2,000 among whom over 1,100 are professors and associate professors. The University boasts 14 academicians of both the Chinese Academy of Sciences and the Chinese Academy of Engineering. Academic researches are very active on campus. Leading scholars and professors of the University influential both nationally and internationally have been taking the lead in their own fields of research. The total number of full-time undergraduate students amounts to 14,000 and graduate students, 12,000 together with over 3,600 international students. The two campuses (the new one in Minhang district and the old one in Putuo district) occupy an area of 207 hectares.

In addition to academic researches and studies undertaken at colleges and schools, the University is also proud of having many key research institutions that are highly recognized and with special sponsorship by Chinese government and local government. These include 2 state key laboratories and precision spectroscopy, 1 national field research and observation station in forest ecosystem, 6 key laboratories

and engineering centers of the Ministry of Education of China that include brain functional genomics, geographic information science, polar materials and devices, speech and hearing impairment treatment, nano-photonics and advanced instrument, software/hardware co-design technology and application, 6 key research bases in humanities and social science of Ministry of Education of China that include curriculum and instruction, school reform and development, modern Chinese thought and culture, Chinese characters and application studies, Russian studies and urban studies and 6 key laboratories and engineering center of Shanghai Municipality that include urban ecology and eco-restoration, fMRI, green chemical process, etc.

The University owns a large library that has a collection exceeding 3,900,000 volumes in stock. A publishing house that is run by the University is highly recognized in China. In the meantime, the University has also been entrusted to undertake the publication of over 20 academic journals.

The University advocates three “III” as its development strategies, which are innovation, inter-discipline and internationalization. By innovation, the University aims to foster students with innovative consciousness in their study and research. By inter-discipline, the University strives to all its efforts to facilitate interdisciplinary study and research. By internationalization, the University aims to strengthen its international education in order to bring in new ideas in curriculum development, teaching methodology, faculty development, research means, etc. as well as facilitate the progress of joint research. Beside, the University also aims to establish an international education campus composed of learning centers of foreign universities functioning at ECNU campus to bring not only more international students but also more chances for ECNU’s students to interact with each other. Currently New York University, EM Lyon Business School, University of Virginia, Colorado State University, CIEE, etc are among the list of those universities/organizations. In the meantime, the University also strives hard to establish and strengthen ties with its overseas partner institutions of higher learning. At the moment, the University has sighed exchange agreements with other 150 universities and research institution for institutional exchange and cooperation. Joint academic and research programs have been established with Group ENS in France, the University of Pennsylvania, Cornell University and Columbia University in the United States, the University of Tokyo in Japan, etc. New York University(Shanghai) has been established by East China Normal University and New York University was founded in 2011,marking a new model intercultural communication and educational cooperation in the process of globalization.

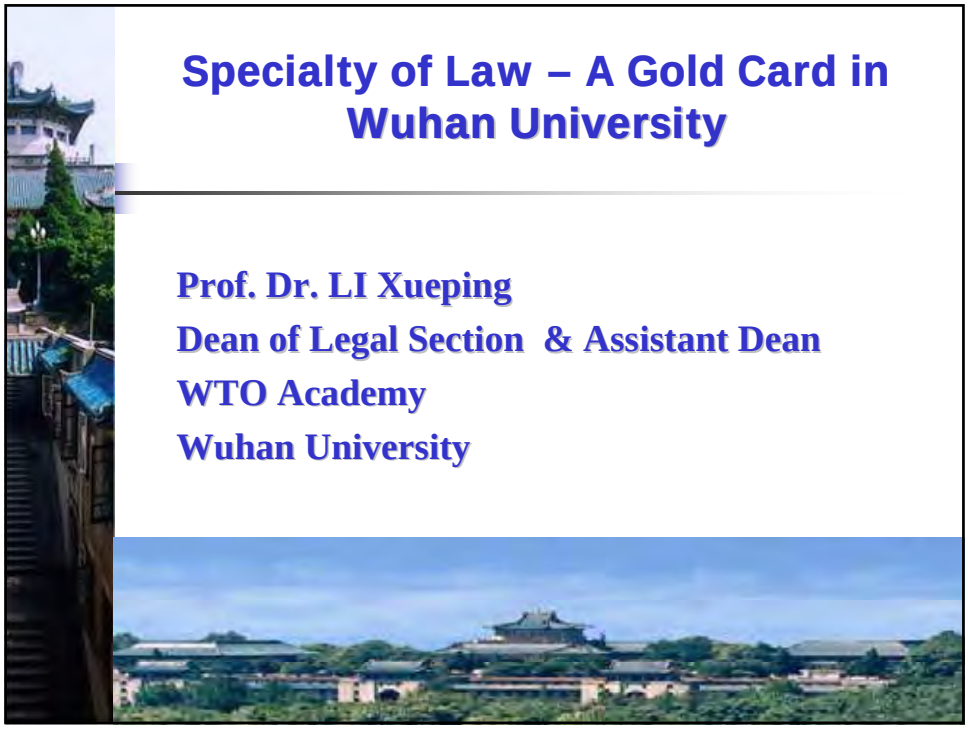
At present Professor Tong Shijun holds the position of Party Secretary of the Communist Party Committee of the University and Chairs the University Board. Professor Yu Lizhong is incumbent President of the University.

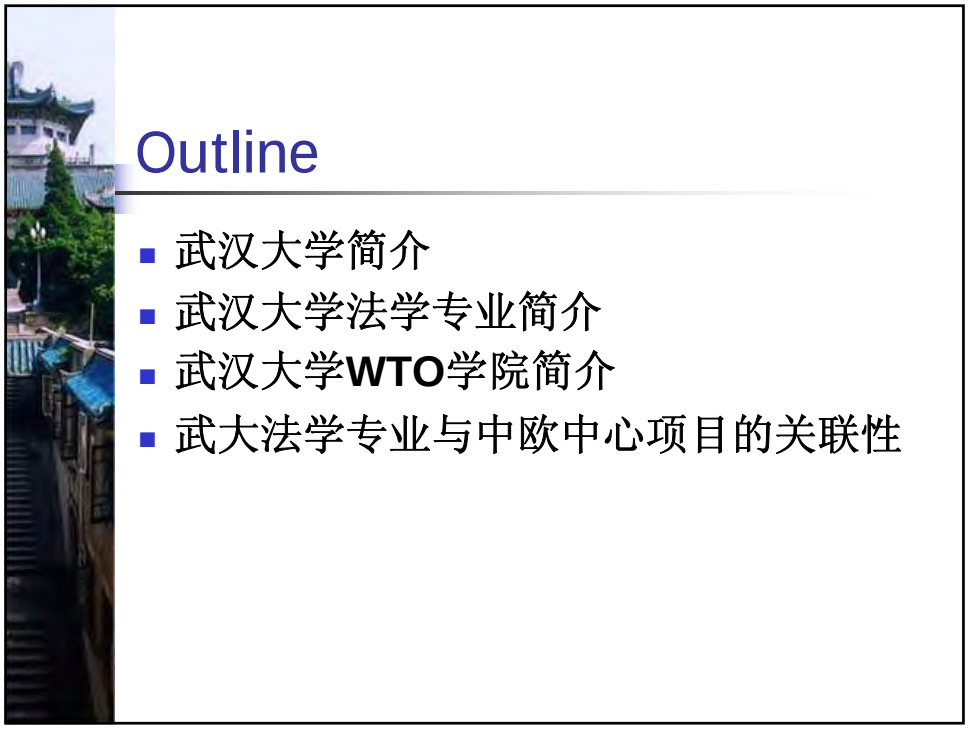
European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

Wuhan University

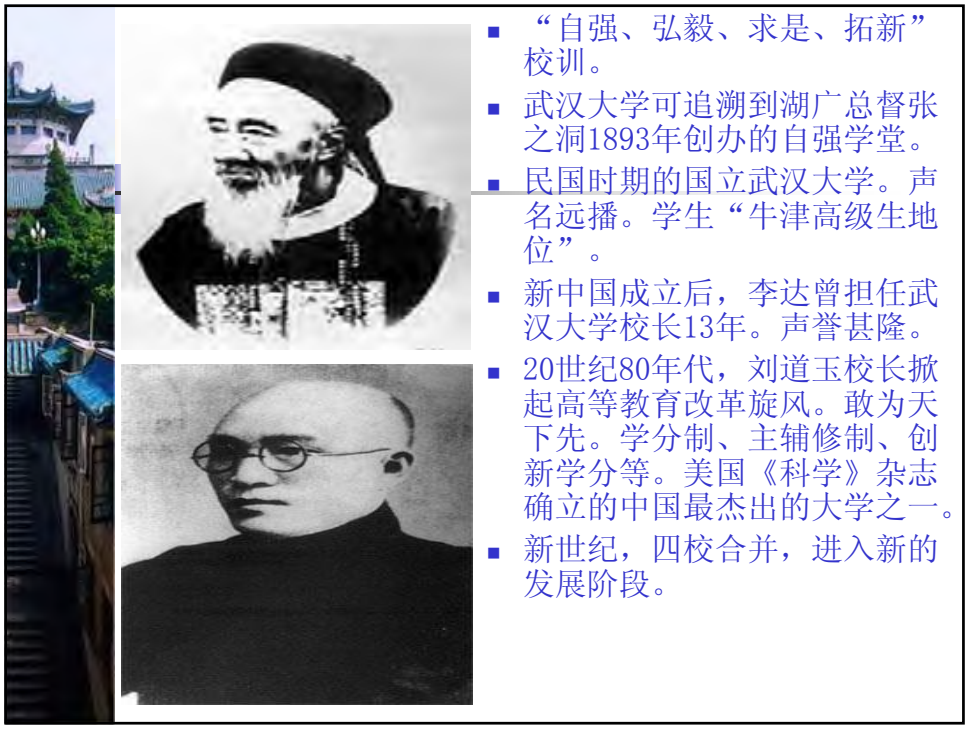
Lecture:
Specialty of Law – A Gold Card in Wuhan University

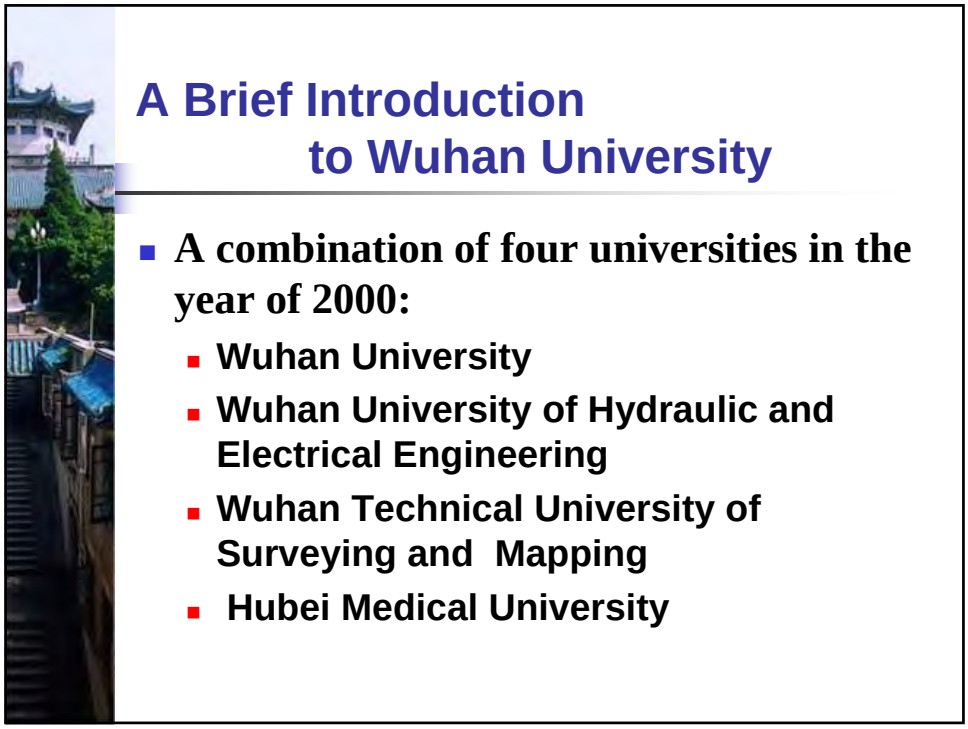
Prof. Dr. LI Xueping,
Dean of Legal Section & Assistant Dean WTO Academy
Wuhan University

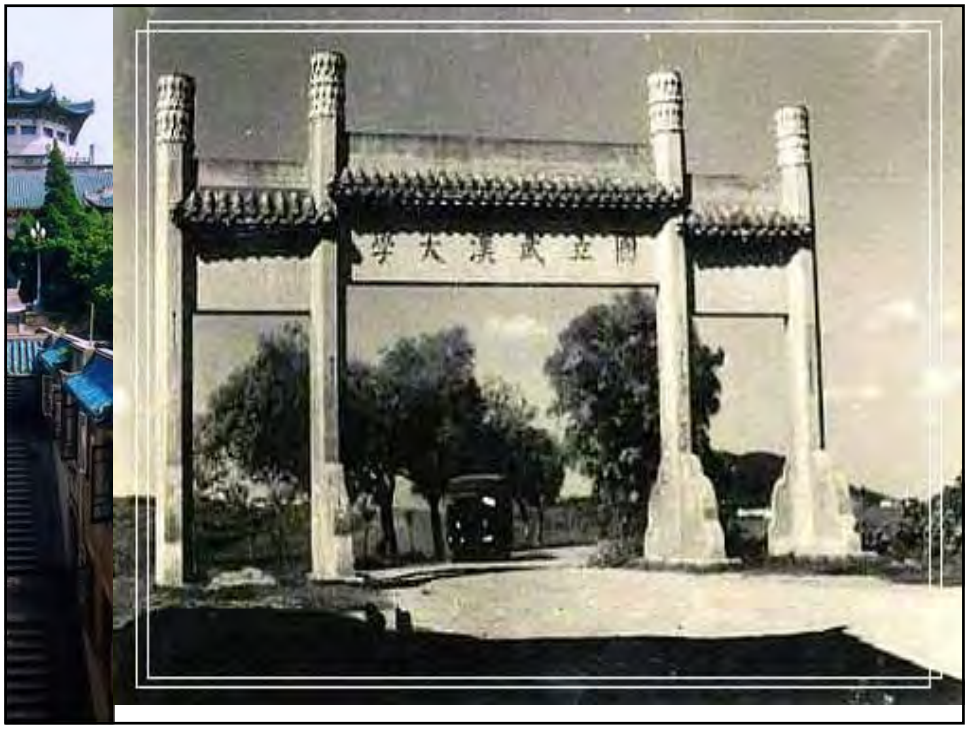

Specialty of Law – A Gold Card in Wuhan University
Prof. Dr. LI Xueping
Dean of Legal Section & Assistant Dean
WTO Academy
Wuhan University


Outline
武汉大学简介
武汉大学法学专业简介
武汉大学WTO学院简介
武大法学专业与中欧中心项目的关联性

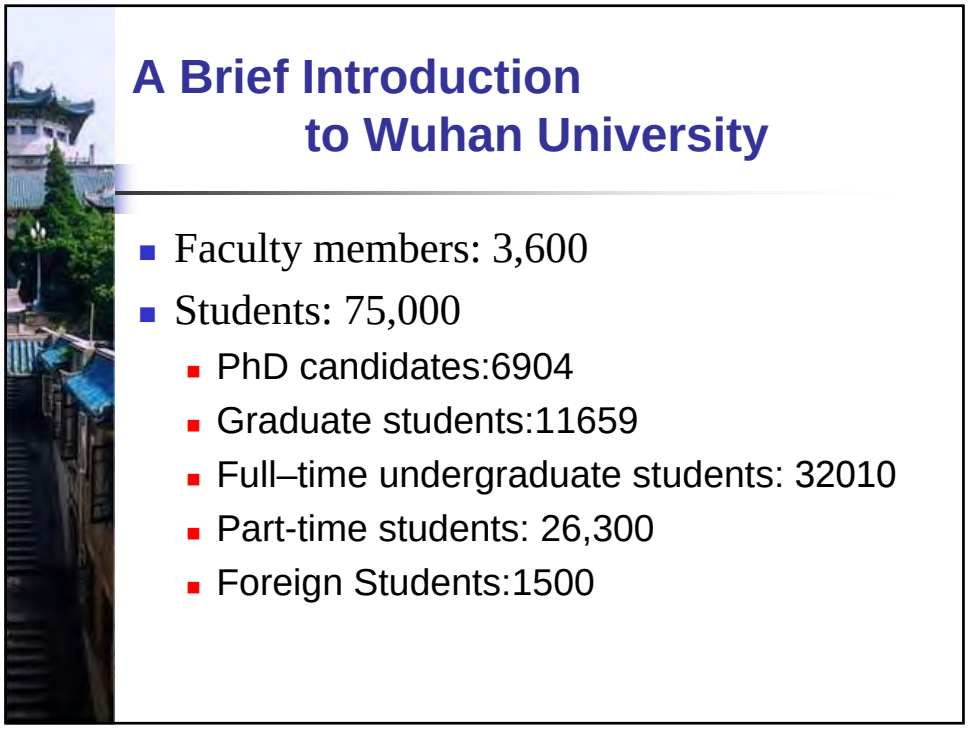

A Brief Introduction
to Wuhan University
Founded in 1893
Directly under the administration of the Ministry of Education of China
A key comprehensive university （211/985)
Reorganized in 2000

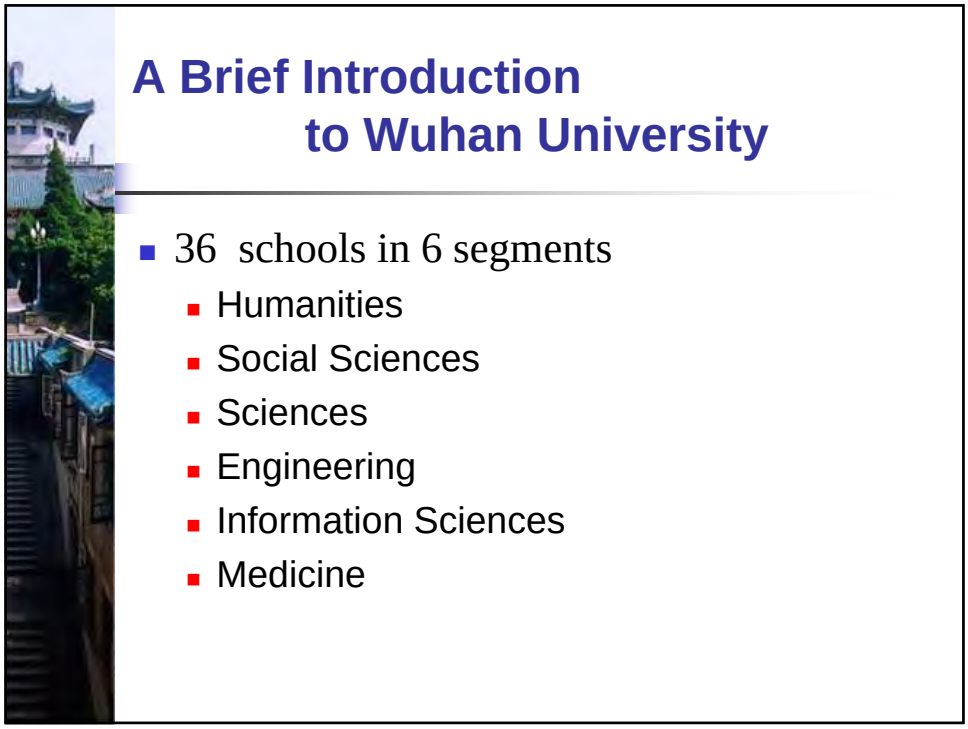

“自强、弘毅、求是、拓新”校训。
武汉大学可追溯到湖广总督张之洞1893年创办的自强学堂。
民国时期的国立武汉大学。声名远播。学生“牛津高级生地位”。
新中国成立后，李达曾担任武汉大学校长13年。声誉甚隆。
20世纪80年代，刘道玉校长掀起高等教育改革旋风。敢为天下先。学分制、主辅修制、创新学分等。美国《科学》杂志确立的中国最杰出的大学之一。
新世纪，四校合并，进入新的发展阶段。

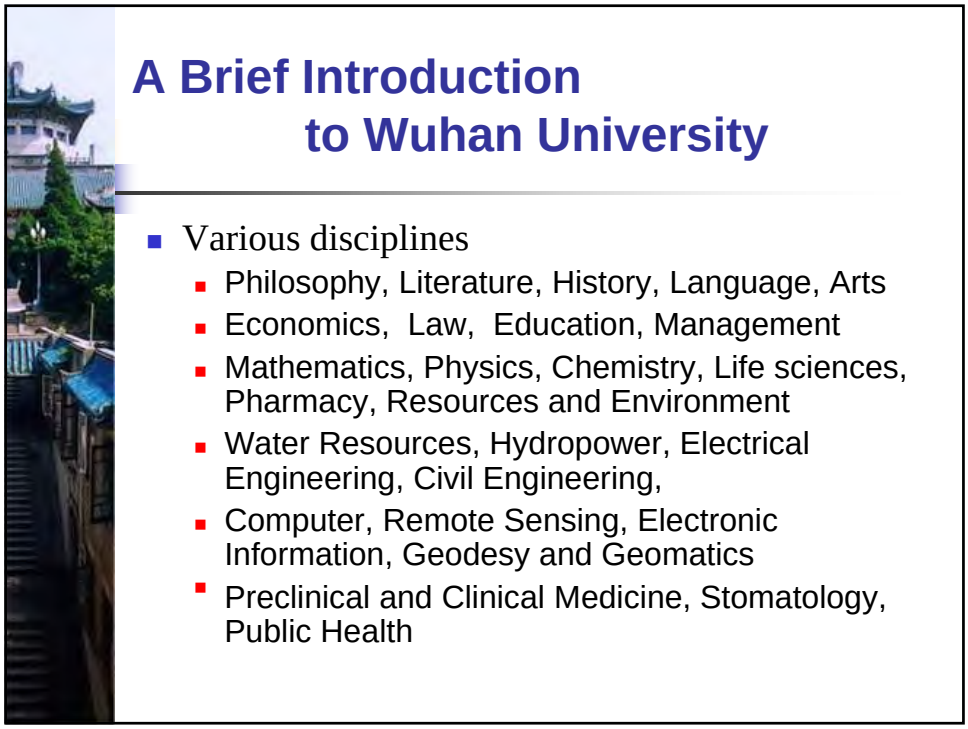

A Brief Introduction
to Wuhan University
A combination of four universities in the year of 2000:
Wuhan University
Wuhan University of Hydraulic and Electrical Engineering
Wuhan Technical University of Surveying and Mapping
Hubei Medical University

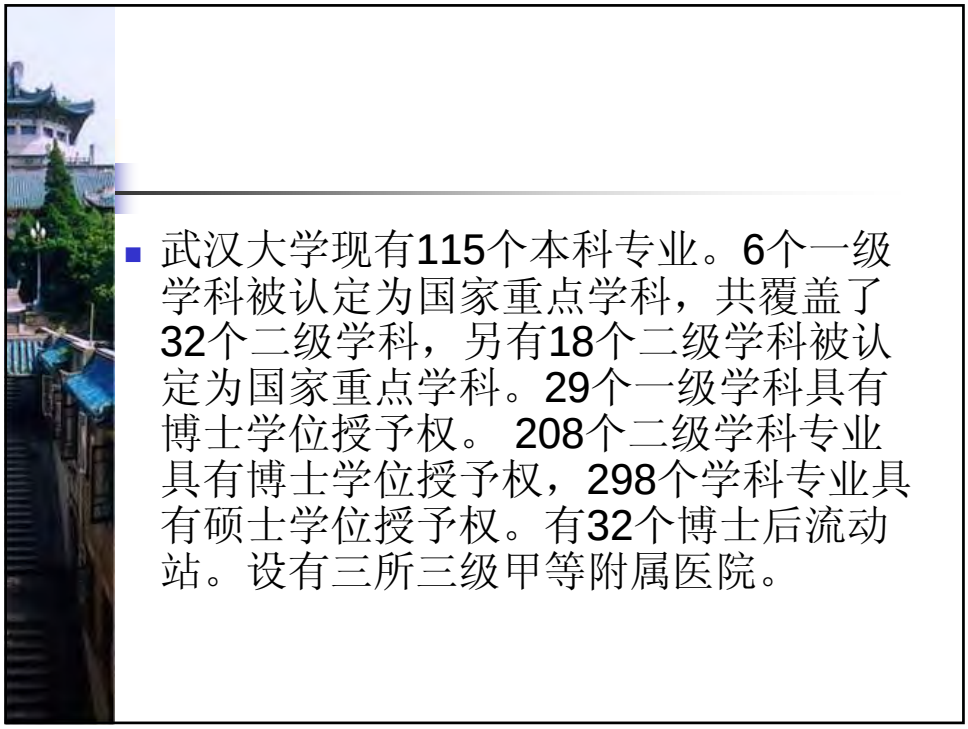



國立武漢大學

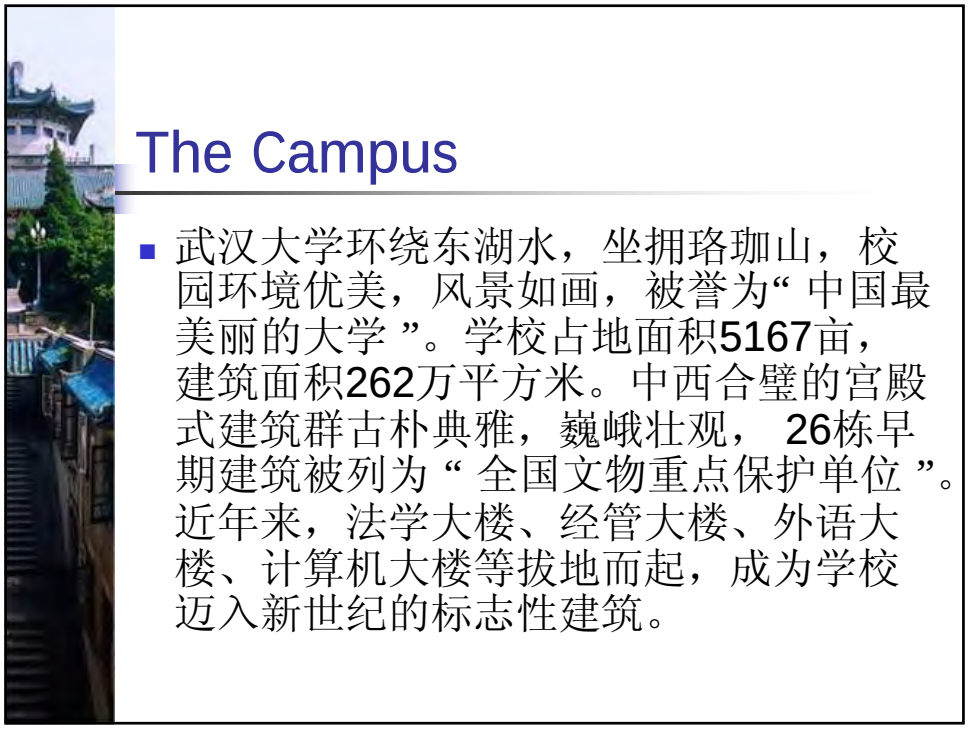

A Brief Introduction
to Wuhan University
Faculty members: 3,600
Students: 75,000
PhD candidates:6904
Graduate students:11659
Full–time undergraduate students: 32010
Part-time students: 26,300
Foreign Students:1500


A Brief Introduction
to Wuhan University
36 schools in 6 segments
Humanities
Social Sciences
Sciences
Engineering
Information Sciences
Medicine


A Brief Introduction
to Wuhan University
Various disciplines
Philosophy, Literature, History, Language, Arts
Economics, Law, Education, Management
Mathematics, Physics, Chemistry, Life sciences, Pharmacy, Resources and Environment
Water Resources, Hydropower, Electrical Engineering, Civil Engineering,
Computer, Remote Sensing, Electronic Information, Geodesy and Geomatics
Preclinical and Clinical Medicine, Stomatology, Public Health



- 武汉大学现有115个本科专业。6个一级学科被认定为国家重点学科，共覆盖了32个二级学科，另有18个二级学科被认定为国家重点学科。29个一级学科具有博士学位授予权。 208个二级学科专业具有博士学位授予权，298个学科专业具有硕士学位授予权。有32个博士后流动站。设有三所三级甲等附属医院。

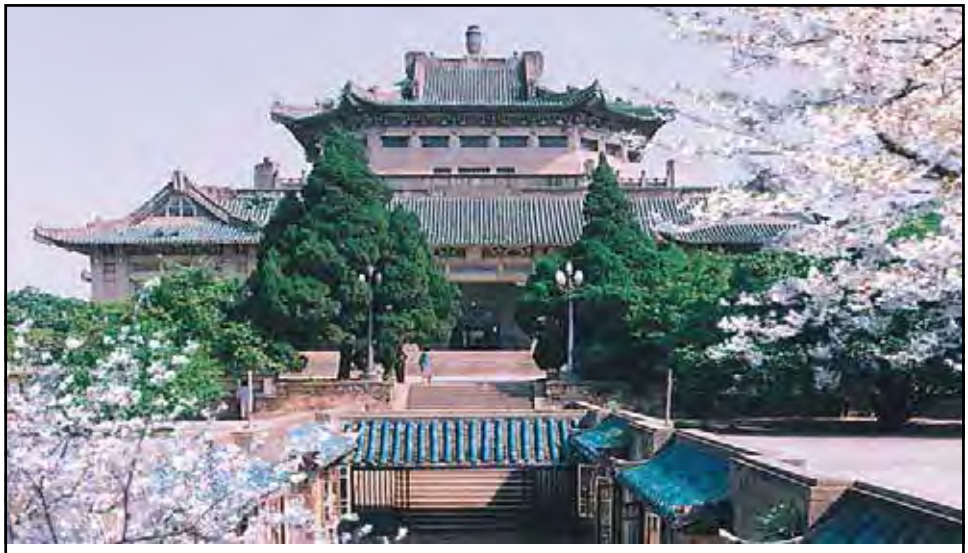


The Campus

- 武汉大学环绕东湖水，坐拥珞珈山，校园环境优美，风景如画，被誉为“ 中国最美丽的大学 ”。学校占地面积5167亩，建筑面积262万平方米。中西合璧的宫殿式建筑群古朴典雅，巍峨壮观， 26栋早期建筑被列为“ 全国文物重点保护单位 ”。近年来，法学大楼、经管大楼、外语大楼、计算机大楼等拔地而起，成为学校迈入新世纪的标志性建筑。

A bird's eye view of the campus

Administration Hall



The Old Library, which opened in 1935, is located on the top of Lion Mountain with the beautiful East Lake by its side. This building together with the architectural complex around it has been included in the fifth list of precious cultural relics under state protection. This listing is unprecedented among Chinese libraries

Scenes in our campus - spring

Scenes in our campus - summer

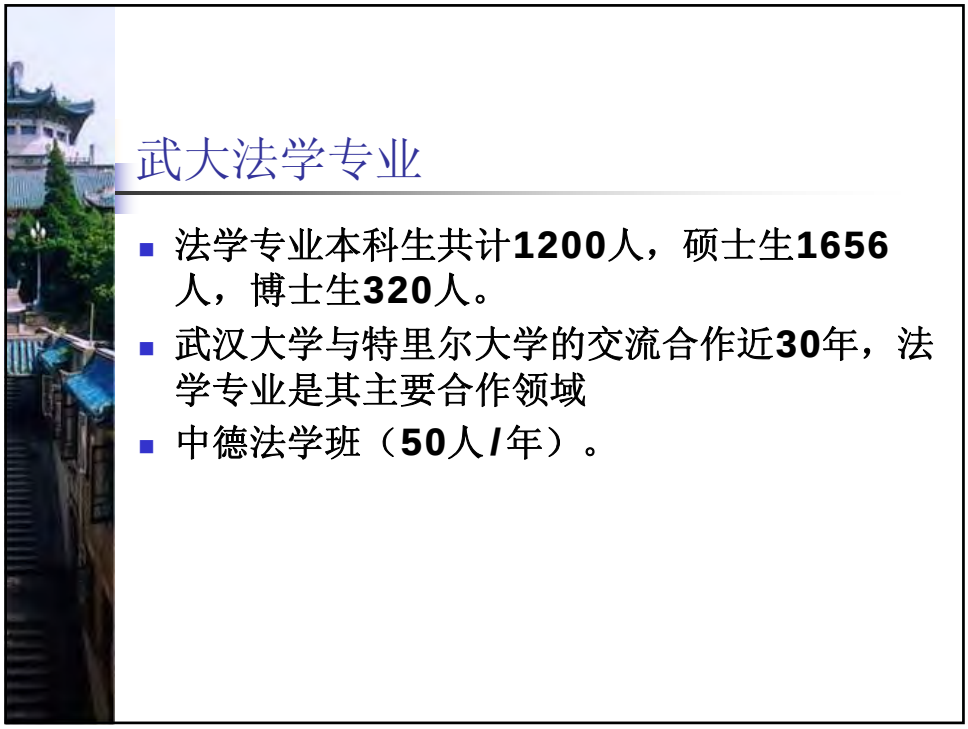
Scenes in our campus - autumn

Scenes in our campus - winter

A bird's eye view of library main building- the heart of university

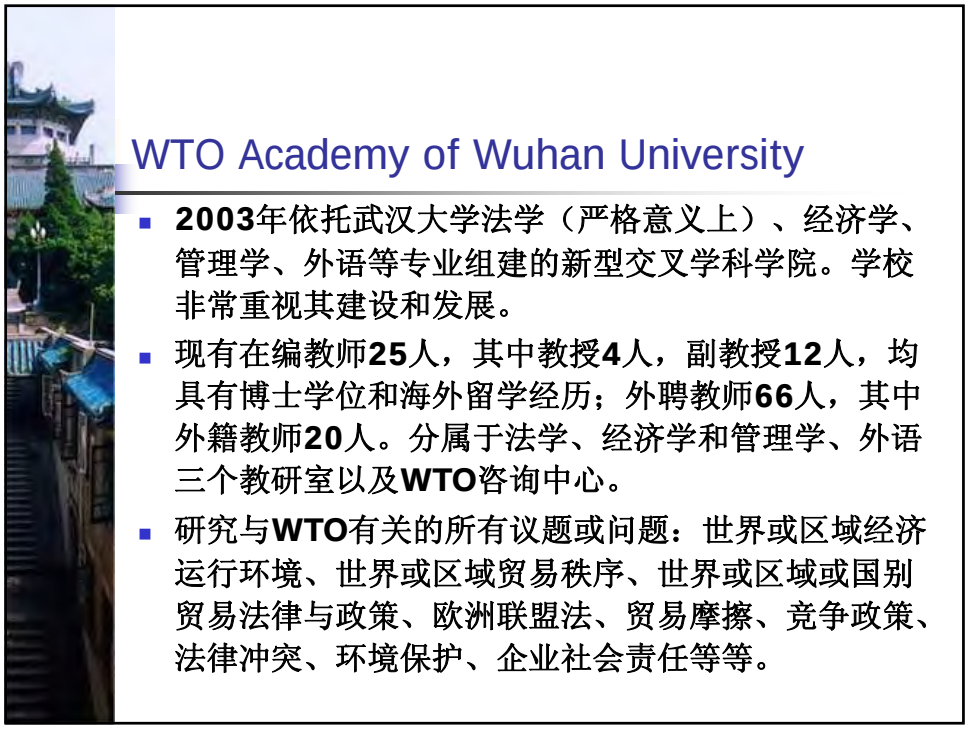
武大法学专业（严格意义上）

- 法学专业历史悠久(60余年），学生一流，教师一流，位列全国前三。
- 法学作为国家一级学科，覆盖法理学、法律史、宪法行政法、民商法、经济法、刑法、诉讼法、环境法、国际法、体育法、WTO法、测绘法等12个二级学科专业。分布于武汉大学法学院、WTO学院、国际问题研究院和边界问题研究院。
- 有2个国家级重点学科：国际法、环境法。
- 有2个国家教育部人文社会科学重点研究基地：武汉大学国际法研究所、武汉大学环境法研究所。国际法、环境法专业的研究水平各自位列全国第一，培养的学生质量更是全国一流。



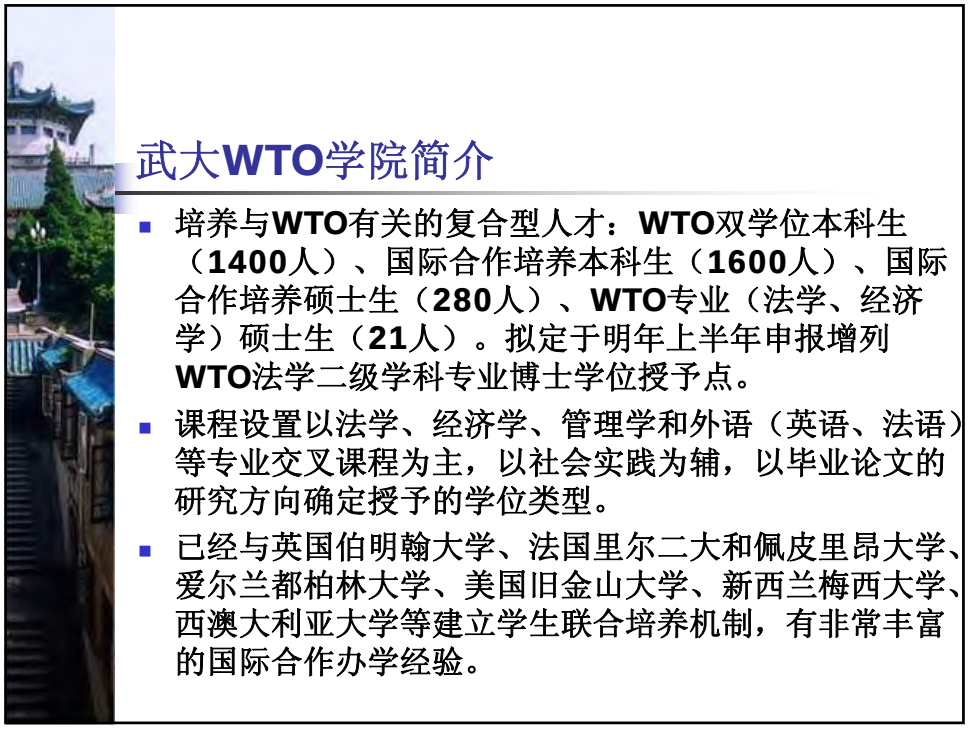
武大法学专业

- 法学专业本科生共计**1200**人，硕士生**1656**人，博士生**320**人。
- 武汉大学与特里尔大学的交流合作近**30**年，法学专业是其主要合作领域
- 中德法学班（**50**人**/**年）。



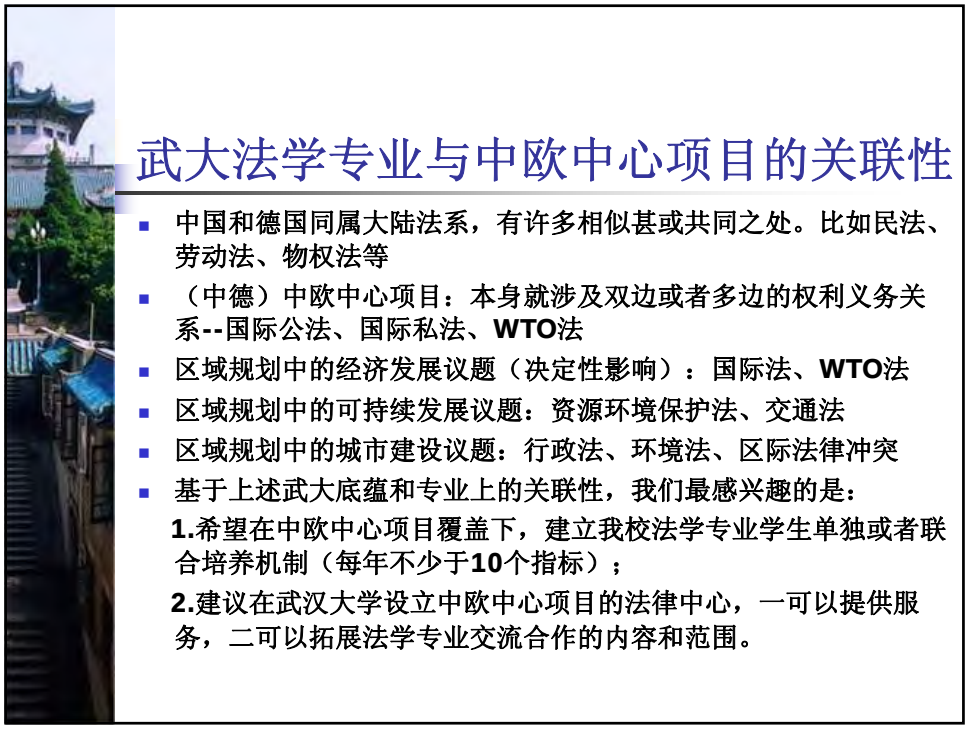
WTO Academy of Wuhan University

- **2003**年依托武汉大学法学（严格意义上）、经济学、管理学、外语等专业组建的新型交叉学科学院。学校非常重视其建设和发展。
- 现有在编教师**25**人，其中教授**4**人，副教授**12**人，均具有博士学位和海外留学经历；外聘教师**66**人，其中外籍教师**20**人。分属于法学、经济学和管理学、外语三个教研室以及**WTO**咨询中心。
- 研究与**WTO**有关的所有议题或问题：世界或区域经济运行环境、世界或区域贸易秩序、世界或区域或国别贸易法律与政策、欧洲联盟法、贸易摩擦、竞争政策、法律冲突、环境保护、企业社会责任等等。



武大WTO学院简介

- 培养与WTO有关的复合型人才：WTO双学位本科生（1400人）、国际合作培养本科生（1600人）、国际合作培养硕士生（280人）、WTO专业（法学、经济学）硕士生（21人）。拟定于明年上半年申报增列WTO法学二级学科专业博士学位授予点。
- 课程设置以法学、经济学、管理学和外语（英语、法语）等专业交叉课程为主，以社会实践为辅，以毕业论文的研究方向确定授予的学位类型。
- 已经与英国伯明翰大学、法国里尔二大和佩皮里昂大学、爱尔兰都柏林大学、美国旧金山大学、新西兰梅西大学、西澳大利亚大学等建立学生联合培养机制，有非常丰富的国际合作办学经验。

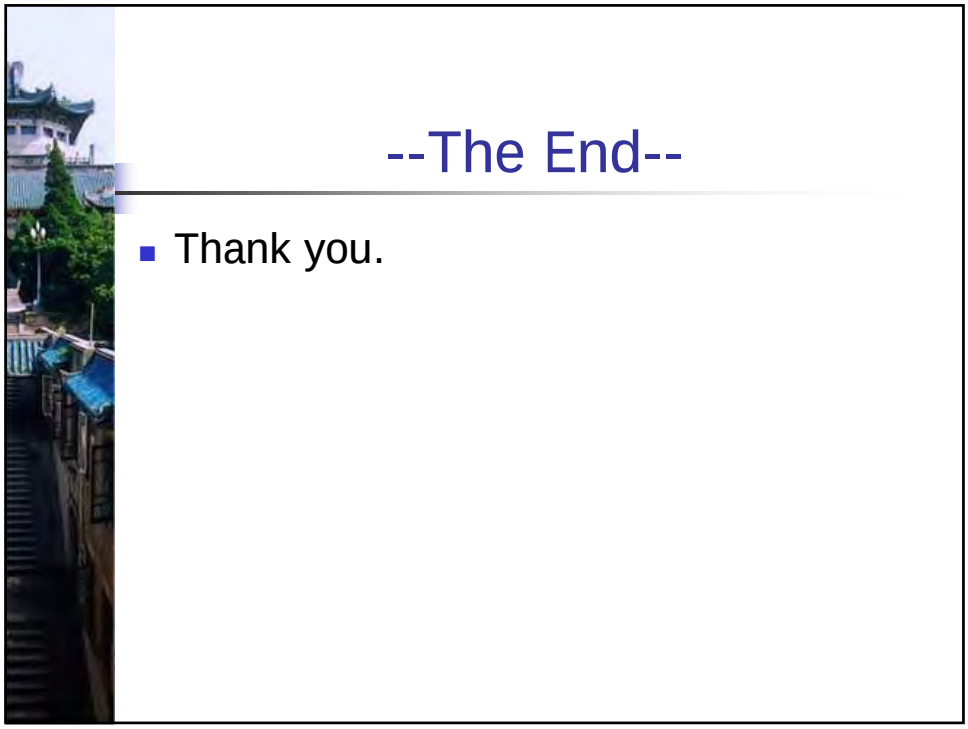


武大法学专业与中欧中心项目的关联性

- 中国和德国同属大陆法系，有许多相似甚或共同之处。比如民法、劳动法、物权法等
- （中德）中欧中心项目：本身就涉及双边或者多边的权利义务关系--国际公法、国际私法、WTO法
- 区域规划中的经济发展议题（决定性影响）：国际法、WTO法
- 区域规划中的可持续发展议题：资源环境保护法、交通法
- 区域规划中的城市建设议题：行政法、环境法、区际法律冲突
- 基于上述武大底蕴和专业上的关联性，我们最感兴趣的是：

1.希望在中欧中心项目覆盖下，建立我校法学专业学生单独或者联合培养机制（每年不少于10个指标）；

2.建议在武汉大学设立中欧中心项目的法律中心，一可以提供服务，二可以拓展法学专业交流合作的内容和范围。


--The End--
Thank you.

Profile of the University of

Wuhan University (Hubei Province, China)

Wuhan University is a key university directly under the administration of the Ministry of Education of the People's Republic of China, which is sponsored by the prestigious national Program “Project 211”and “Project 985”.

The university was founded in 1893. Later, it changed its name several times before it was named National Wuhan University in July 1928. By the end of 1946, the university had six colleges, i.e., the colleges of liberal arts, law, sciences, engineering, agriculture and medicine. Since the founding of the People’s Republic of China, the government has greatly sponsored Wuhan University in terms of funding and other preferential policies. Since the start of China's reform and opening-up policy, the university has achieved the world's-attention-attracting achievements through its courageous reforming, opening up, and advancing in every aspect. In 1999, the world renowned journal Science listed Wuhan University as one of the most prominent institutions of higher education in China. Approved by the State Council, was founded on August 2nd, 2000 the new Wuhan University – an amalgamation of the original Wuhan University, Wuhan University of Hydraulic and Electrical Engineering, Wuhan Technical University of Surveying and Mapping, and Hubei Medical University.

The university is a natural whole with the disciplines of philosophy, economics, law, education, literature, history, sciences, engineering, agriculture, medicine and management, 50,000-odd students including 20,000-odd postgraduates. At present, it has 36 schools, colleges and departments, among which the School of Urban Design and School of Resource and Environmental Science could be related to ECER.
The university has been authorized by the State Council to set up graduate schools, with 208 doctoral degrees and 311 master programs, 32 post doc circulation stations. Another 22 have been evaluated as state-level key disciplines and sub-disciplines, and 6 are listed as key disciplines to be constructed by the State.
Wuhan University now has 3,600-odd full-time teachers, including 2,400-odd professes and associate professors, 4 academicians of Chinese Academy of sciences,7 academicians of the Chinese Academy of Engineering, 2 academicians of the international Eurasian Academy of Sciences.

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

Xiamen University

Lecture:
Sustainable Urban and Regional Development

Prof. WU Daguang,
Vice President, Xiamen University

Sustainable Urban and Regional Development

XIAMENT UNIVERSITY
DAGUANG WU

廈門大學

Xiamen University

Located in Xiamen, a major port city in southern China, on the west bank of Taiwan strait.

Three Campuses of XMU

厦门大学三校区位置示意图

Total land area: 524.5 hectares

3

Faculty and student in XMU

At present,

Over 38,000 full-time student , including 20,575 undergraduates, 15,590 master students and 2,567 doctoral students.

2,475 full-time faculty , including 1522 professors and associate professors of whom 22 are academicians of CAS and CAE.

Doctoral programs: 185; Master programs: 279; undergraduate programs: 82

11 International Master Programs taught in English for foreign students and 6 bilingual undergraduate programs for both Chinese and international students.

4

Student Internationalization:

1. Improvement of Scale and Composition

Table 1: Number of Overseas Students
（Hong Kong, Macao, Taiwan excluded）
Unit：Person

Year	Number	Degree Student	Non-degree Student
2007	2181	610	1571
2008	2199	580	1619
2009	705	705	NA
2010	2561	789	1772

Table 2：University-level Exchange Programs

Year	Number of Exchange Students
2006	77
2007	76
2008	77
2009	138

厦门大学

3. Build diversified programs to provide students more opportunities of overseas study

Table 1. Number of Exchange Students Sent Overseas 2006-2010
Unit: Person

Year	Number of Students Sent Overseas	Number of Colleges and Schools Involved	Number of Students Received
2006	140	11	77
2007	226	18	76
2008	489	23	77
2009	724	23	138
2010	856	25	150

厦门大学

a) An increasing number of traditional university-level exchange programs

Table 1: Number of University-level Exchange Programs

Year	North America	Europe	Asia	Hong Kong, Macao and Taiwan	Others	Total
2008	1	7	8	5	4	25
2009	4	8	10	15	3	40
2010	6	12	12	27	16	73

b) Participate in multilateral cooperation frameworks

Confucius Institutes

- build the platform of internationalization based on Confucius Institutes

Wroclaw University, Poland

Trier, Germany

Stellenbosch, South Africa

San Diego State University, U.S.

Confucius Institutes
孔子学院 （共14所）

North America:

- San Diego State University美国圣地亚哥州立大学
- University of Delaware 美国特拉华大学
- Saint Mary's University， Canada 加拿大圣玛丽大学
- Mae Fah Luang University, Thailand 泰国皇太后大学
- Middle East Technical University, Turkey 土耳其中东技术大学
- Nnamdi Azikiwe University, Nigeria 尼日利亚纳姆迪阿齐克韦大学
- University of Stellenbosch, South Africa 南非斯坦陵布什大学
- University of Cardiff, UK 英国卡迪夫大学
  University of Southhampon, UK 英国南安普敦大学
- Trier University, Germany 德国特里尔大学
- Université Paris X-Nanterre, France 法国巴黎十大
- Wroclaw university, Poland 波兰弗罗茨瓦夫大学
- University of Malta, Malta 马耳他大学
- Victoria University of Wellington (VUW)， New Zealand惠灵顿维多利亚大学

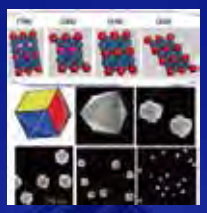
XMU Scientific Research Survey

- **Research institutes and centers: >150**
- National Key labs and Engineering Research Centers: **4**
- Education Ministry Key Research Bases in Humanities and Social Science: **5**
- Education Ministry Key Labs and Engineering Research Centers:**8**
- Ministry of Science and Technology's Center for Key International Technology Cooperation:**1**
- Provincial and Municipal Key labs and Research Centers: **38**

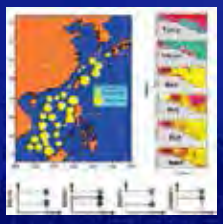
Latest Main Research Findings:

碳原子团簇的形成研究
Science,2004

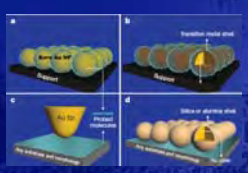
可控细胞死亡方式的人体蛋白激酶
Science, 2009



二十四面体铂纳米晶体催化剂
Science, 2007



海洋初级生产力结构及微型生物生态学研究
Science, 2010



壳层隔绝纳米粒子增强拉曼光谱
Nature, 2010


Sustainable urban and regional development related school and institute
Sustainable Urban and Regional Development (SURD) Related Schools
General introduction
SURD related courses
Research interests
廈門大學


SERD related institutions
School of Architecture and Civil Engineering
School of Environment and Ecology
School of Economics
School of Energy Research
The Coastal and Ocean Management Institute
Other institutions: Law, Public Affair, Oceanography, Taiwan Research Institute ……
廈門大學

School of Architecture and Civil Engineering

- **Established in 2004, has two institutions related**
- **Department of Urban Planning**

  Offers five-year B.Eng. degrees in 'Urban and Rural Planning' as well as three-year Master's program in 'Urban Planning and Design.
- **Cross-Straits Institute of Urban Planning**

  Functioning as a university-level and multi-disciplinary research platform, integrating the planning-related research teams, projects, and other resources at the university and beyond.
- Designated as a platform for international and cross-straits academic exchange and joint research in the field of **urban and regional planning.**

Research

Three Major Research Themes:

- **Micro-level: Sustainable Urban Space**
  - **Green Building and Community Design**
  - **Team leader: Prof. Wang Shaosen**
- **Medium-level: Sustainable Urban Form**
  - **Low Carbon Transportation and Land Use**
  - **Team leader: Prof. Wang Hui**
- **Micro-level: Sustainable Urban Region**
  - **Spatial Governance of Urban Sprawl**
  - **Team leader: Prof. Wen Chaoxiang**

Priority Area 1:
Sustainable Urban Form
- Low Carbon Transportation and the Supporting Land Use and Urban Form

Ongoing Research Projects in the Priority Areas:

- **"Planning Strategies for coordinating transport and urban form towards a Low-Carbon City** – A Case Study of Xiamen, China", funded (NSFC). *(Project Item: No. 41071101)*
- **"Optimizing the Spatial Distribution of Public Services for the Development of Low-Carbon Urban Transportation** – A Case Study of Xiamen, China", funded by the Lincoln Institute of Land Policy (USA). *(Project Item: No. 20110901)*
- **"Coordinating the Development of Urban High-capacity Transit and the Spatial Pattern of Housing and Working** – A Case Study of Xiamen, China", funded the Ministry of Education of China. *(Project Item: No. 201000074)*

廈門大學

Priority Area 2:

Ongoing Research projects:

- **Theory and methods of sustainable urban and regional development**
- Urbanization of the developed coastal cities in China and urban and rural coordinating planning
- Intensive land use with highly scarce land resource at the urban fringe zones during the speedy urbanization of the developed coastal cities in China
- **Application of sustainable development technology**
- Study on the **sustainable development models** of the mountain area in the Economic Zone on the West Bank of Taiwan Strait

廈門大學

School of Environment and Ecology

- There are about 20 years environmental planning experiences including both research and teaching in the Environmental Management Program (EMP)
  - Joint labs with Delaware U, Lund University, Hong Kong University
  - International high-level symposiums
  - Nobel laureates, academicians from all over the world are invited as visiting professors

Research

- 2000-2002 Environmental Carrying Capacity and Pollution Loading Control in Xiangshan Bay, Zhejiang Province
- **2003 Xiamen Eco-city Conceptual Planning**
- 2003 Environmental Planning of Dongfu Town, Xiamen City
- 2004 Environmental Planning of Guankou Town, Xiamen City
- 2005 Environmental Planning of Wuxian Town, Xiamen City
- 2007-2008 Environmental Planning of Tinxi Town, Xiamen City
- 2007 Environmental Planning of Luoyuan Bay Area, Fuzhou City。The part achievement of this project, Resource and Environmental loading and Sustainable Development Strategy around Luoyuan Bay Area, awarded the Third Price of 2009 Scientific and Technology Award of Fujian Province.
- **2008-2010 Environmental Quality Assessment of Xiamen Bay and its Environmental Carrying Capacity**
- **2009- Coastal Principal Functional Zoning in Xiamen Bay and Luoyuan Bay**

厦门大学

The Coastal and Ocean Management Institute (COMI)

- COMI is devoted to scientific research on the **frontier of the sustainable development of the ocean and coastal area:**
  - **Oceans Policy and Law;**
  - **Integrated Watershed and Ocean Management;**
  - **Marine Economics;**
  - **International Training Center for Coastal Sustainable Development.**

The Master of Marine Affairs program (MMA)

- **Core Courses**
  - **Economics of Marine Resources and Environment**
  - **International Ocean Law**
  - **Introduction to Marine Affairs**
  - **Marine Science and Ocean Uses**
- **Required Courses**
  - Marine Policy/Public Policies Analysis/Ocean and Coastal Management/Marine Economics/Literature Review
- **Elective Courses**
  - Geo-informatics technology & its application on coastal management/Marine Ecosystem Management /World Economics/Regional Ocean Governance/Seminars for Presentation Practices

School of Economics

- Research:

  During the "Tenth Five-Year Plan", the School of Economics have taken on 43 research items from the State Social Sciences Fund and State Natural Science Fund; published 169 academic treatises and teaching material.; delivered 1007 papers in important academic journals at home and abroad; 88 items have won prizes for achievements in scientific research on provincial and ministerial level and higher; 7 items have won achievements in teaching on state level and 1 won an established item for a State Refined Course.

- International cooperation:

  offer five international joint master programs

  established coopeartion with top universities in the world such as Cornell University, Monash University, Zentrum Fur Europaische Wirtschaftsforschung Gmbh, Warwick University,

Research

Research Projects to be carried out

- Study on the relations between urbanization and energy consumption, CO2 emissions: Based on the industrial and regional experience of China
- Study on the evolution of China's carbon intensity driving mechanism in urban areas

Personnel Training

- School of Economics has postgraduate and doctoral sites of Resources and Environmental Economics, with a large number of professors and associate professors engaging **in sustainable development in urban and regional research**, and has trained a large number of master's and PhD graduates.

Conclusion

- Cooperation Prospect

  XMU is keen to explore cooperation with German universities within but no limit to ECER in the Sustainable Urban and Regional Development at the following forms:

  - Mutual visit of researchers to develop co-research
  - Joint PhD or master programs in the interdisciplinary subjects
  - Exchange of graduate students
  - Joint training programs, etc.

厦门大学

Xiamen University

Building a High-level
Research-oriented University
Well-known Both at Home and
Abroad

厦门大学

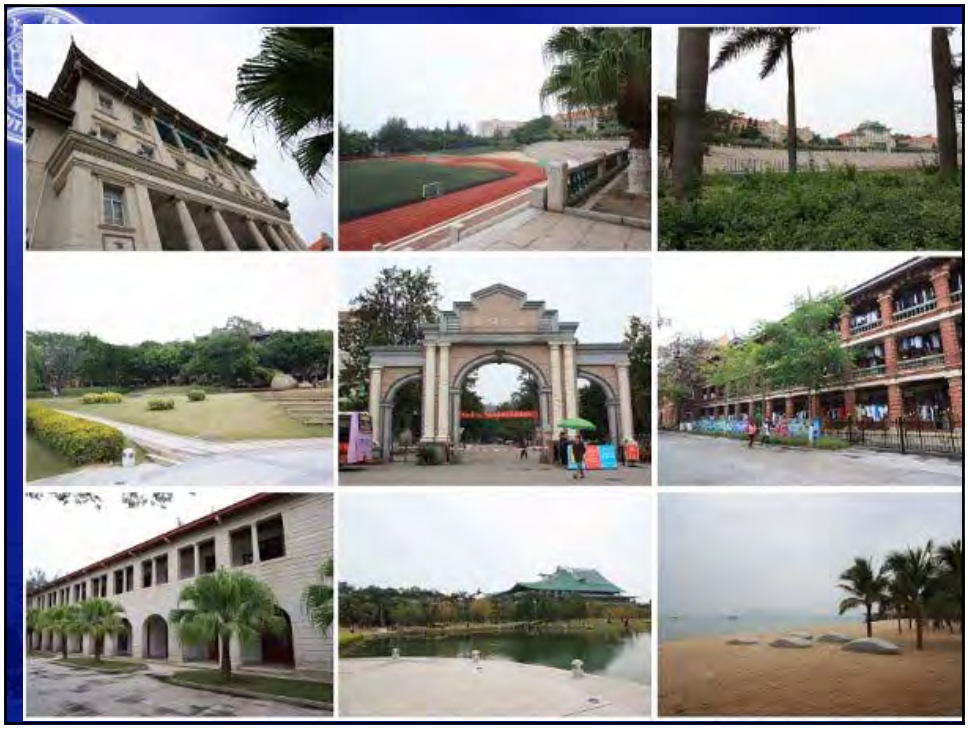

Shangxian (First-Quarter Moon) Stadium


New Campus


Library


Student Dormitory
Gymnasium
Students' Canteen


厦门大学




Student Activities


Thank You

Profile of the University of

Xiamen University (Fujian Province, China)

Xiamen University (XMU) was founded in 1921 by Tan Kah Kee, the well-known patriotic overseas Chinese leader. It was the first university in China founded by an overseas Chinese. At present it is the only university in any of the five special economic zones and is one of China's higher-level universities designated for the state key construction of the “211 Project” and the “985 Project”.

XMU now has a total enrolment of over 38,000 full-time students on campus, including 20,575 undergraduates, 15,590 master students, 2,567 doctoral students, and over 2500 international students.

Equipped with a strong team of faculty and staff, XMU has 2,475 full-time faculty and professional researchers, including 1522 professors and associate professors of whom 22 are academicians of CAS and CAE.

Xiamen University has a graduate school, 25 schools containing 64 departments and 10 research institutes and research centers, among which the **School of Architecture & Civil Engineering** with three departments (Architecture, Civil Engineering and City Planning), **School of Energy Research** and **School of Environment and Ecology** could be relevant to ECER.

XMU offers 82 undergraduate programs, 279 graduate programs, and 185 PhD programs, covering a fairly complete range of academic programs, only except Military and Agriculture. As an international-oriented university, XMU also launches 11 International Master Programs taught in English for foreign students and 6 bilingual undergraduate programs for both Chinese and international students. Southeast Asian studies, economic studies, accounting studies, law, chemistry and chemical engineering, life science, oceanography are at the highest tier among domestic universities.

Xiamen University has inter-university cooperative ties with over 200 institutions of higher education at home and abroad and co-established 14 Confucius Institutes with universities around the world. The University also involves in several multi-lateral cooperative frameworks, such as Global U8 Consortium, Erasmus Mundus (Lot 11 and Lot 14a) partnership, Global Engineering Education Exchange (GE3), etc. Because of its especially favorable geographical location and advantageous human resources, it is the key university most actively engaged in educational, scientific and cultural exchanges with Hong Kong, Macao and Taiwan.

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

Yunnan University

Profile of the University of

Yunnan University (Yunnan Province, China)

Yunnan University is one of the oldest comprehensive universities in Southwest China. In December 1922, Tang Jiyao, governor of Yunnan, founded the Private Donglu University, which began its enrollment in 1923 and changed its name to Yunnan University (YNU) in 1934. It is one of the earliest comprehensive university established in southwest China.

In 1940's, while the well-known mathematician, Prof. Xiong Qinglai being president of the university, a group of famous scholars such as Fei Xiaotong, Chen Xingshen and Hua Luogeng etc. were invited to teach in the university. Yunnan University then became a world known comprehensive university in China. In 1946, the Encyclopedia Britannica listed YNU as one of the 15 world known universities in China.

Following the reform and opening-up policies, especially since the 1990s, YNU has been developing rapidly by availing itself of "Project 211" membership status and by continuing to adhere to its philosophy of "being based in the southwest frontier of China, serving the needs of Yunnan, and creating our own characteristics." At present, YNU is a national key university that encompasses disciplines as humanities, history, philosophy, economics, management, law, art, engineering, sciences, medicine and agriculture, and is especially strong in the fields of ethnology, biology and environment protection studies. It is the only university that enjoys "Project 211" membership in Yunnan Province, and one of several in the western regions to receive intensive support from the national government.

YNU has 18 schools, 7 Research Institutes with 79 Bachelor's degree programs, 238 Master's degree programs，98 Doctorate degree programs and 6 post-doctorate research programs. Among which the **School of Resources Environment and Earth Science** with three departments (Resources Environment and Urban and Rural Planning, Geological Information System and Geological Physics) and **School of Urban Construction and Management** with four departments (Urban Planning, Transportation Engineering, Management and City Management) could be relevant to ECER.

Ever since the early years in YNU's history, its connections to the international academic world has never been stopped. Nowadays, YNU is connected to more than 100 universities and organizations of more than 20 countries. There are a number of international cooperation and exchange programs in the ways of joint research and faculty and students exchange run among YNU and its partners all over the world.

YNU has exchange programs with universities and organizations in German as well. They are University Karlsruhe (TH), University Kiel, IWF (Institut für den Wissenschaftlichen Film GmbH Göttingen) and DAAD (German Academic Exchange Service).

On its way towards building a research oriented regional high level comprehensive university, YNU will attach more importance to international cooperation and exchange.

Statistics:

Faculties & Students

- Staff: 2818
- Faculties: 1605
- Full-time students: 25000
- Undergraduate students: 13000
- Graduate students: 12000
- International students: 1695
- Part-time students: 15000

Campus Coverage:

Main Campus: 88 acre
Chenggong New Campus: 662 acre

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

City of Trier as persons responsible for ECER in Germany and project partner of Beijing Normal Universty

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

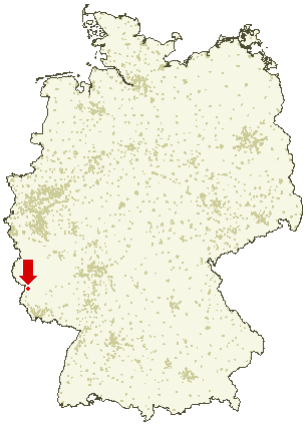
City of Trier as persons responsible for ECER in Germany and project partner of Beijing Normal Universty

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Trier is the oldest city of Germany with a history of more than 2000 years.

Today, with its about 105,000 inhabitants, Trier is the regional center of the former government district of Trier, bishop- and university town with about 20,000 students.

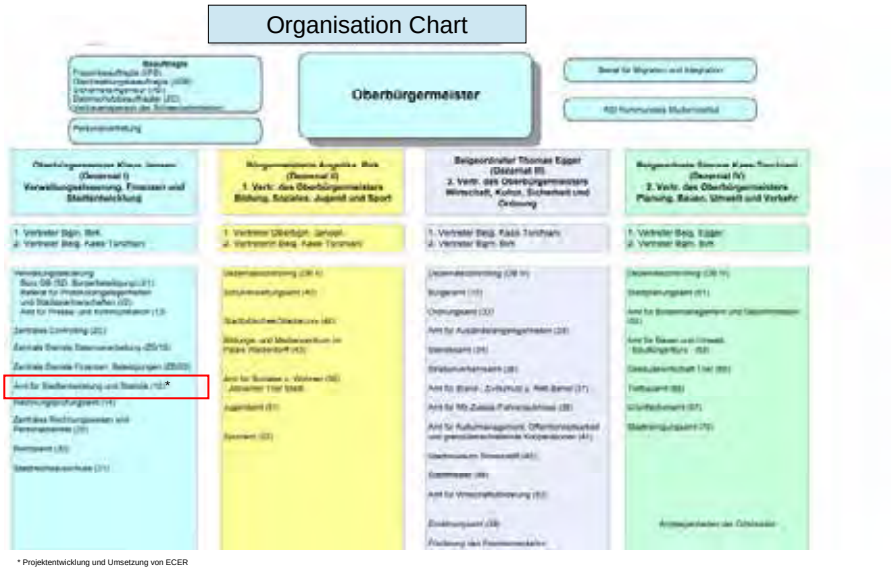
Economically, Trier is the center of the wine-producing region along the rivers of Mosel, Saar and Ruwer. In addition, it is well-known for its world renowned companies in the food and beverage industry, textile industry, fine mechanics, construction industry as well as arts and crafts.



Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Organisation Chart

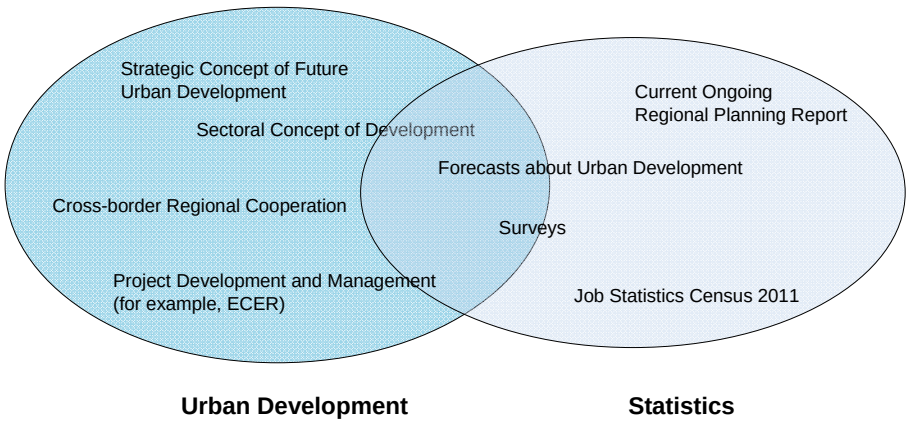


* Projektentwicklung und Umsetzung von ECER

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

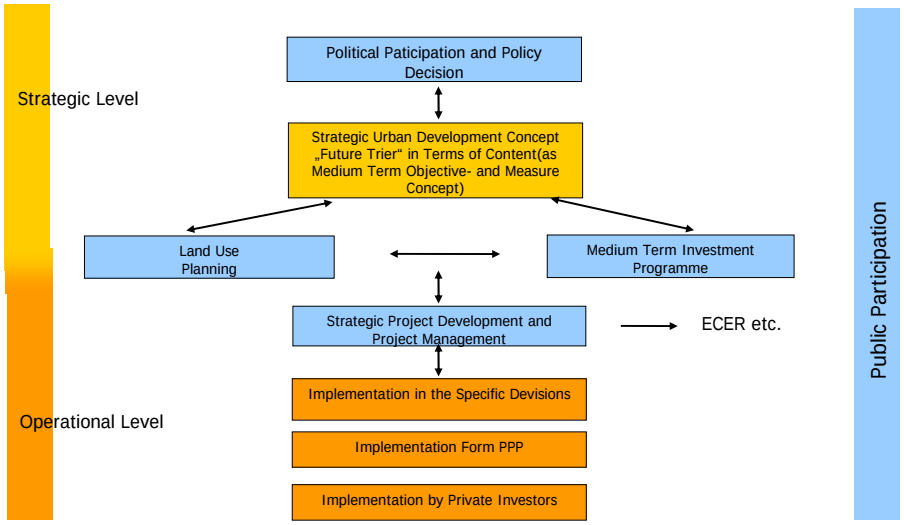
Main Tasks of Office for Urban Development and Statistics



Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Building Blocks of a Strategic Urban Development



Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Office for Urban Development and Statistics (Strategic Orientation)

Regional Development Concept (REK) Science Park Trier-Luxembourg (WIP TriLux) Freight Transport Circle TriLux	Regional and Cross-border Cooperation Projects	**Regional Bodies (OLG, IRT ect.) as Representatives of the City**
ECER, WIP TriLux Multimodal Transportchain Freezone, Freight Transport Center Trier	Project Initiative, Development and Management	**Project Partnerships**
School Development Concept (SEK), Economic Development Concept (WEK), Retail Trade Concept (EZK)	Sectoral Concepts / Public Participation	**Round Tables Citizens' Panels in City Districts Civic Association**
Planned are 2 "Future Radars" with the Participation of the Forum "Future Trier 2020"	Strategic Future Concept Trier 2025 (as Frame Concept)	**Participation of 120 Persons/ Institutions in the Forum and Working Groups**
Selection of Current Ongoing and Planned Projects	Urban Development Trier (in the Sense of a Target- and Project Oriented Future Management)	**Participation Forms**

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Selected Projekts (I)

Strategic Concept of Future Urban Development

- Strategic Concept of Future Trier 2020+

Sectoral Development Concepts

- School Development Concept Trier 2020+
- Retail Trade Concept
- Business Improvement Districts (BIDS)
- Economic Potential Analysis
- Healthcare Industry Initiative Trier 2020+

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Selected Projekts (II)

Cross-border / Regional Cooperation

- Freight Transport Concept Trier-Luxembourg
- Green City Logistics
- City-Network „Konz-Trier-Schweich“

Project Development (including Funding)

- European Chinese Center for Education and Research in Spatial Development Planning (ECER)
- Science Park TriLux
- European Forum for Healthcare Industry
- Freight Transport Center
- Science Park Trier
- Conversion Castelforte
- Citizens’ Panel

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

September 2009

Professional Training
5-year training programme

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Advanced Seminar I
May 2009 in Trier

DISASTTER PREVENTAITON AND
MITIGATION,
EMERGENCY MANAGEMENT

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Advanced Seminar II
November 2009 in Trier

TRAINING COURSE ON
TRANSPORTATION PLANNING

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

February 2010 in Trier

Results
Think Tank

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

October 2010 in Shanghai

Forum „Sustainable Urban and Regional Development“

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Post-seminar in Beijing, October 2010

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Pre-seminar
December 2010 in Beijing

Particpant Manual for
Introductory Seminar

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

October 2011
Trier, Berlin, Stuttgart

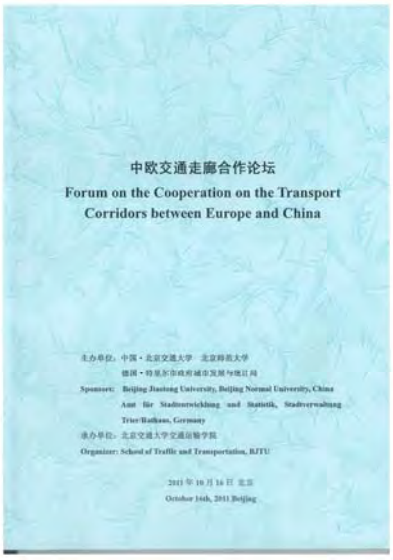
at ECER Meeting
October 22-29, 2011

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Pre-seminar
Oktober 2011 in Beijing

Forum on the Cooperation
on the Transport Corridors
between Europe and China



Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Workshop with 30 Master Program Students from China at the University of Stuttgart, International Master Program „Infrastructure Planning“ at ECER Meeting October 22-29 in Stuttgart

Prof. Dr. Johannes Weinand, Director Office for Urban Development and Statistics, City of Trier

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

Network of European Universities involved in “Academic Education” and “ Research” in ECER

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

RWTH Aachen

Lecture:
Chances and purchases of a common academic teaching and research between German and Chinese Universities in the area of sustainable urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée
Institute for Urban and Transport Planning, RWTH Aachen University

ISB INSTITUT FÜR STADTBAUWESEN UND STADTVERKEHR 1

Chances and purchases of a common academic teaching and research between German and Chinese Universities in the area of sustainable urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

Institute for Urban and Transport Planning, RWTH Aachen University

Trier, October 24th 2011

RWTH AACHEN UNIVERSITY

ISB INSTITUT FÜR STADTBAUWESEN UND STADTVERKEHR 2

Content

RWTH AACHEN UNIVERSITY

1 Profile RWTH and ISB (Institute for Urban and Transport Planning)

RWTH AACHEN UNIVERSITY

Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

ECER-Conference, Trier, 24.10.2011

RWTH and ISB
Challenges
Tasks Agglomeration
Conclusions, research at ISB

RWTH AACHEN UNIVERSITY

Profile RWTH

- Leading technical University in Europe
- Member of IDEA-League (London, Delft, Zürich, Aachen, Paris)
- Cooperation in China with Tsinghua Univ., Tongji Univ. , and Univ. of Sciences and Technology Beijing
- 9 Departments:

  Mathematics / Nature Sciences (incl. Physics, Chemistry, Biology, Informatics), Architecture, Civil Engineering, Mechanical Engineering, Georessources, Elektric Engineering, Arts and Humanty Scieneces, Economy, Medicine
- Focus: Civil Engineering, Mechanic Engineering, Human and Environment, Mobility

Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

ECER-Conference, Trier, 24.10.2011

RWTH and ISB
Challenges
Tasks Agglomeration
Conclusions, research at ISB

RWTH AACHEN UNIVERSITY

Competence profile in the research area "Mobility"

1. RWTH Aachen: International Students WS 09/10 – Top 15 countries

Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

ECER-Conference, Trier, 24.10.2011

RWTH and ISB
Challenges
Tasks Agglomeration
Conclusions, research at ISB

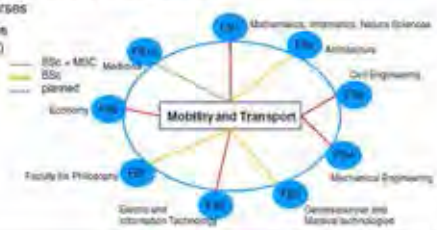
RWTH AACHEN UNIVERSITY

Competence profile in the research area "Mobility"

2. Research & Education: Degree in Mobility and Transport

Degree in Mobility and Transport at RWTH Aachen University:

- means an engineering study with deep methodologic education
- means an integrated approach over nearly all faculties of RWTH
- means the integration of infrastructure, vehicles and life-cycle-costs
- works with three years Bachelor (BSc) plus two years Master (MSc)
- offers broad opportunities of courses
- offers broad opportunities for jobs (industry, public sector, research)



Profile Department of Civil Engineering

- 20 Professors:
  Concrete structures, Steel structures, Sructural Analysis, Building Construction, Mechanics, Hydrology and Hydraulics, Geotecnic und Tunnelling, Urban Water, Waste Management, Road Construction and Traffic, Railway Construction and Traffic, Airport Planning, Urban and Transport Planning, Facility Management, Building Management
- Focus: Integration of Construction and Life Cycle Operation
  Building Construction, Water and Environment, Transport and Planning, Facility Management
- Education: Civil Engineering (BSc + MSc),
  Mobility and Transport (MoVe) (BSc + MSc),
  Environmental sciences (BSc + MSc),
  Economic Engineering

Profile ISB

- 10 People scientific staff (working on PhD)
- Focus:
  - Interaction between settlement and Transport
  - Adaptation strategies to climate and demographic change
  - Urban and Regional Planning, Transportation Planning, Mobility Research, Empiric Sciences
- Working Groups:
  E-Mobility, Climate Change, Demografic Change, Mobility-Management, Regional and Urban Development and Planning, Transportation Modelling
- Clients / Customers:
  EU, Ministries on State and Federal State level, local authorities
- Network: FGSV, DVWG, ARL, SRL, Forum Mobilität und Verkehr

2 Teaching Cooperation with RWTH

RWTH AACHEN UNIVERSITY

Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

ECER-Conference, Trier, 24.10.2011

RWTH and ISB
Challenges
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Conclusions, research at ISB

RWTH AACHEN UNIVERSITY

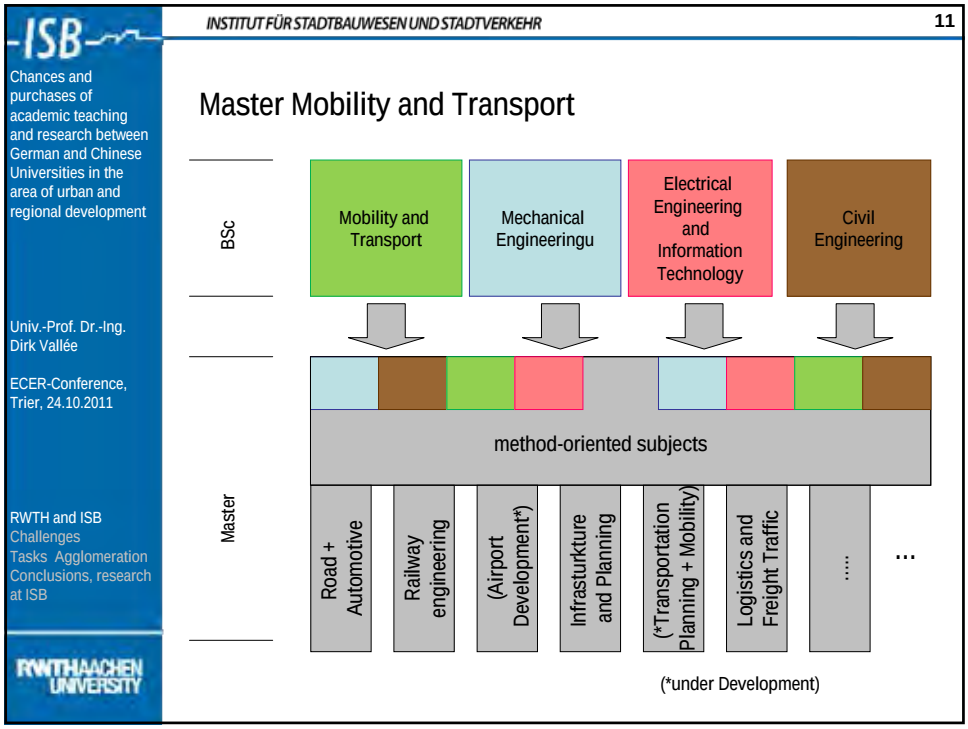
Teaching at RWTH

MSc Civil-Engineering

- **Focus „Transportation and Settlement“ (one focus out of eight)**
- **Main topics: Regional Development, Road Construction, Railway Construction and Operation, Airport Development**

MSc Mobility and Transport (MoVe)

- **3 modal focus areas (Road+Automotive, Railway-Systems, Airports and Aircrafts)**
- **these 3 areas are located at the interface of infrastructure and vehicle**
- **3 broad focus areas (Mobility, Logistics + Freight, Planning and Infrastructure)**
- **these areas are dealing with peoples behaviour and life-cycle view of invest and operation**


ISB
INSTITUT FÜR STADTBAUWESEN UND STADTVERKEHR
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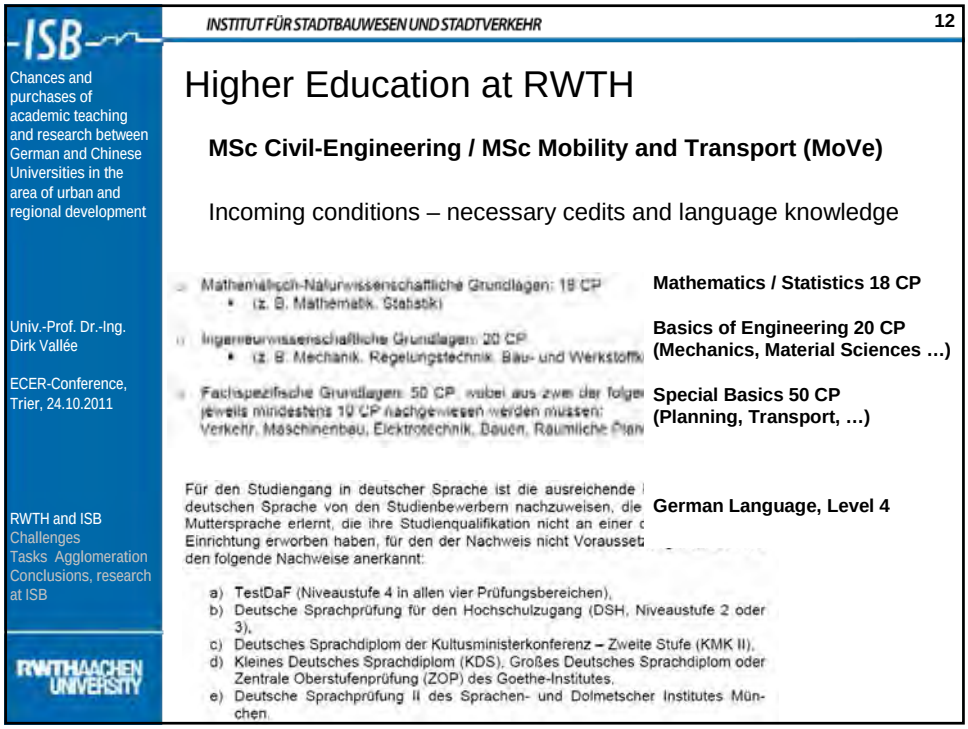
RWTH AACHEN UNIVERSITY
Master Mobility and Transport
BSc
Master
Mobility and Transport
Mechanical Engineeringu
Electrical Engineering and Information Technology
Civil Engineering
method-oriented subjects
Road + Automotive
Railway engineering
(Airport Development*)
Infrasturkture and Planning
(*Transportation Planning + Mobility)
Logistics and Freight Traffic
.....
...
(*under Development)


ISB
INSTITUT FÜR STADTBAUWESEN UND STADTVERKEHR
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RWTH AACHEN UNIVERSITY
Higher Education at RWTH
MSc Civil-Engineering / MSc Mobility and Transport (MoVe)
Incoming conditions – necessary cedits and language knowledge
Mathematics / Statistics 18 CP
Basics of Engineering 20 CP (Mechanics, Material Sciences ...)
Special Basics 50 CP (Planning, Transport, ...)
German Language, Level 4
a) TestDaF (Niveaustufe 4 in allen vier Prüfungsbereichen),
b) Deutsche Sprachprüfung für den Hochschulzugang (DSH, Niveaustufe 2 oder 3),
c) Deutsches Sprachdiplom der Kultusministerkonferenz – Zweite Stufe (KMK II),
d) Kleines Deutsches Sprachdiplom (KDS), Großes Deutsches Sprachdiplom oder Zentrale Oberstufenprüfung (ZOP) des Goethe-Institutes,
e) Deutsche Sprachprüfung II des Sprachen- und Dolmetscher Institutes München.

Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

ECER-Conference, Trier, 24.10.2011

RWTH and ISB
Challenges
Tasks Agglomeration
Conclusions, research at ISB

RWTH AACHEN UNIVERSITY

Higher Education at RWTH

Incoming conditions for PhD – international

Center for Doctoral Studies (CDS)

Bachelor of Science
Master of Science

Qualification for research

Acceptance from International Office (equality to German degrees)

In some cases additional exams in the faculty

German Language, Level 4

Additional qualification: CDS

3 Challenges for Urban and Regional Development

RWTH AACHEN UNIVERSITY

Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

ECER-Conference, Trier, 24.10.2011

Challenges – Global

Demografic Change
=> Ageing, Shrinking, Migration, Cohesion, Infrastructure Development

Globalisation
=> Flexibility, Individualisation, New Catchment Areas, Social Incoherence

Climate Change
=> Mitigation, Adaptation, Reduction of Emissions, Sustainability

Local Environment: Clean Air and Low Noise Policies

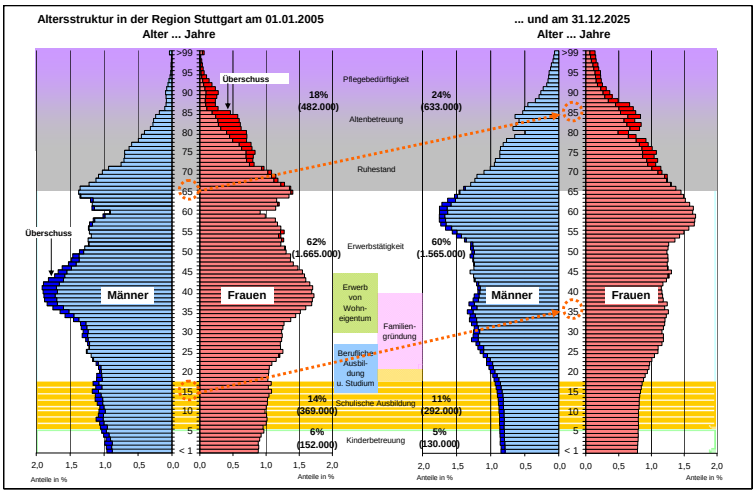
Sustainability
=> peak oil, environmental justice (sozial and ecologic questions), economic development

Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

ECER-Conference, Trier, 24.10.2011

3.1 Demography – Ageing of Population



Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

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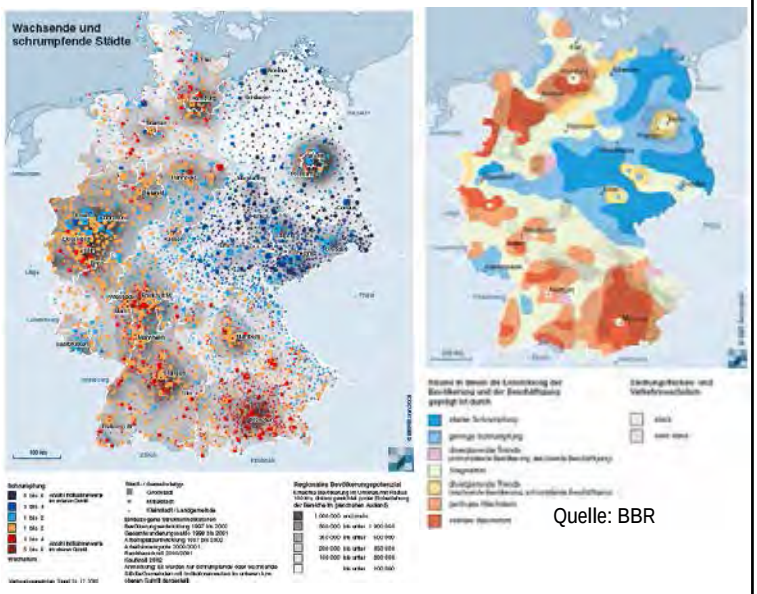
3.1 Incoherent Development



Quelle: BBR

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RWTH and ISB
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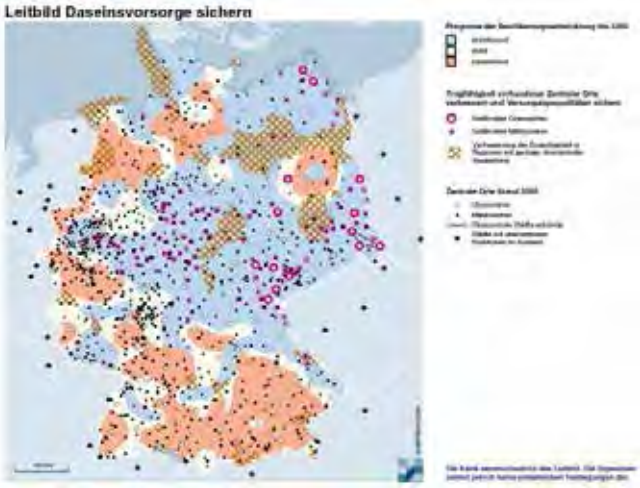
Vision: „Keep Decentral Infrastructure“

- Shrinking population and less public money lead to special efforts in keeping a decentral infrastructure



Quelle: BBR, 2006

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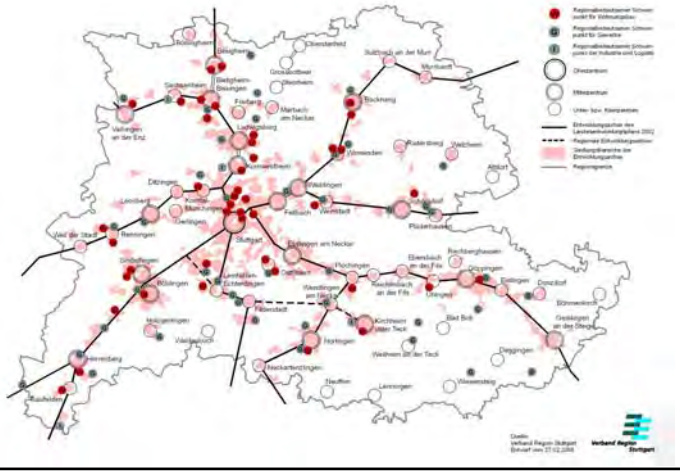
Polyconcentric and Integrated Development Strategy

- Concentration along axes with Infrastructure
- Polycentricity (Decentral concentration)
- Transit Oriented Development



Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

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Challenges
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Conclusions, research at ISB

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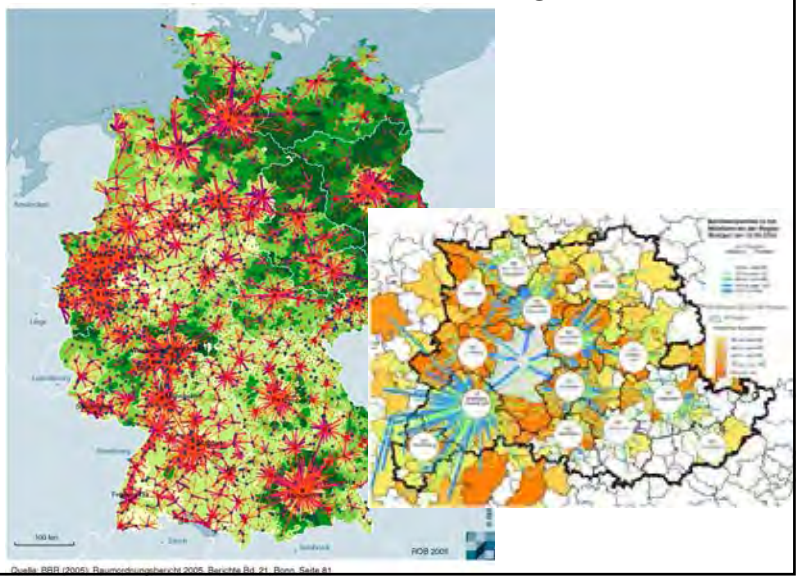
3.2 Larger Catchment Areas – more and wider commuting



Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

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RWTH and ISB
Challenges
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Conclusions, research at ISB

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Integrated System of Urban, Suburban and Regional Train Service / Integrated Ticketing

Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

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RWTH and ISB
Challenges
Tasks Agglomeration
Conclusions, research at ISB

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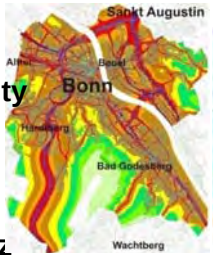
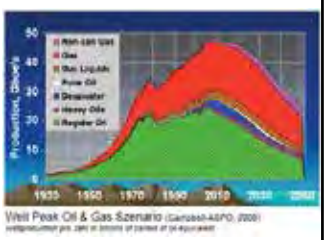
3.2 Sustainable urban Mobility – Tasks

Postfossile Mobility





Air Quality and Noise Reduction
Ressourcenschutz

Barrier-free
Reconcilable surroundig

accessability
reliability

costs

Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

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Mobility 2.0 = New Mobility

low-emission, cross-linked, holistic, simpel

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New Mobilityt (NeMo) – integrated branding Reserach and developmen necessities:

NeMo-Kit = New Mobility Kit
– cheap, compact, modular, compatibel

NeMo-Com = New Mobility Communicator
– smart, ageing friendly, user friendly

NeMo-Com – integrated Payment concepts

NeMoPort – layout of physical interconnection
- charging stations, parking for cars + bikes

NeMo-Way – security, safety, environment

NeMoResearch – acceptance, effects, modelling, evaluation

3.3 Climate Change – Temperatures and Bio-climate

blue / gree:
0 – 10 *C

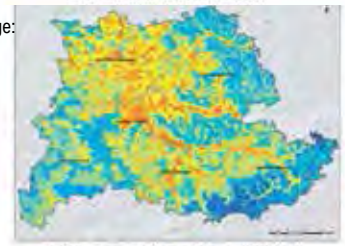
yellow / orange / red:
10 – 15 *C

Jahresmitteltemperatur 1971-2000

Prognose Jahresmitteltemperatur 2100

blue / orange:
5 – 30 Tage
5%, >30 d

red: >35
57%, > 30 d



Bioklima Tage mit Wärmebelastung 1971-2000

Prognose Bioklima Tage mit Wärmebelastung bei einer Zunahme der Durchschnittstemperatur um 2°Celsius.

3.3 Climate Change: Mitigation + Adaptation

Mitigation

- concentrated settlement, TOD, short trip structures
- renewable energies

Adaptation

- Floodwater Management
- fresh air corridors
- infrastructural risks of meteorology and desaster
- sustainable foresting and agriculture
- Water Management
- „climate proofing“ and „risk governance”

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Chances and purchases of academic teaching and research between German and Chinese Universities in the area of urban and regional development

Univ.-Prof. Dr.-Ing. Dirk Vallée

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RWTH and ISB
Challenges
Tasks Agglomeration
Conclusions, research at ISB

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Climate Change Adaptation and Mitigation

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4 Conclusions

Research Interest of ISB

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Challenges and Options for Planning

Ageing and partly shrinking population
=> different infrastructure needed
Climate change
=> less CO2 needed: different settlement and mobility structures
Globalization
=> Gateway-Infrastructures needed

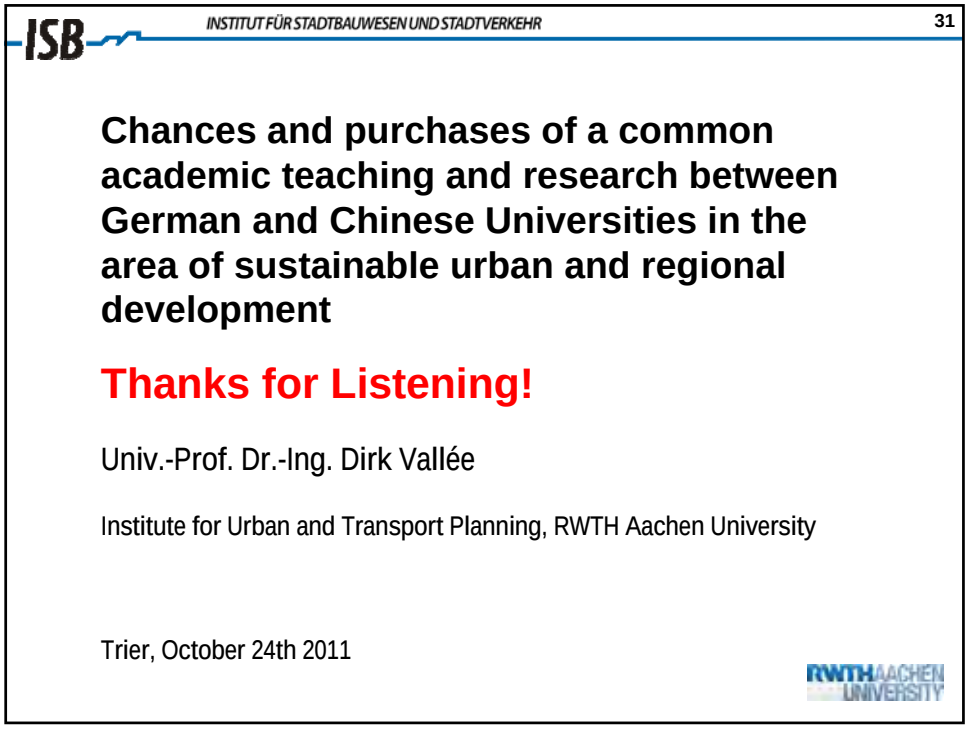
Increasing transportation density, pollution and congestion leads to economic problems!

Integrated approach
=> settlement, open space, transport needed
Integrated transport planning
=> all systems, poeple and freight transort, networks and management
Goals => Connectivity, accessability, environmet (less noise, CO2)

Integrated Planning Approach – Fields of Research

1. Integrated long term development strategie for settlement, open space and infrastructure
   - **sustainable land use strategies**
   - **cost benefit analyses of land use strategies**
2. High density corridors to reduce land use and optimize operating and financing infrastructure
   - **Mobility, accessabilty and reliability in Megacities**
   - **settlement strategy „density vs. decentralisation“**
3. Transit oriented development with decentral concentration to reduce congestion and environmental impacts
   - **financable and fast infrastructure development**
   - **robust infrastructure systems**
4. Hub and spoke system for public transport with railway and bus (bus as feeder)
   - **Financable systems for demografic chance**
   - **Robust structures for cliamte chance and other …**
5. Integrated charges – one ticket for all – and coordinated time tables for all modes of public transp.

   Mobilty on Demand in fast growing areas
6. Integrated mobility and traffic management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Chances and purchases of a common academic teaching and research between German and Chinese Universities in the area of sustainable urban and regional development
Thanks for Listening!
Univ.-Prof. Dr.-Ing. Dirk Vallée
Institute for Urban and Transport Planning, RWTH Aachen University
Trier, October 24th 2011
RWTH AACHEN UNIVERSITY

Profile of the University of

RWTH Aachen, Templergraben 55, 52056 Aachen

Motto	Future begins with us
Foundation	October 10, 1870
Organizing Institution	MIWFT NRW (governmental)
Location	Aachen
Federal State	Nordrhein-Westfalen
Country	Deutschland
President	Univ.-Prof. Dr.-Ing. Ernst M. Schmachtenberg
Number of Students	32.943 (WS 2009/10)
Number of Employees	6708 (2008)
Number of Professors	450 (2008)
Website	www.rwth-aachen.de

Faculties and Departments

The RWTH is divided into nine faculties with subdivided teams of specialists.

1. **Faculty of Mathematics, Computer Science and Natural Sciences**
   - Department of Mathematics
   - Department of Computer Science
   - Department of Physics
   - Department of Chemistry
   - Department of Biology
2. **Faculty of Architecture**
3. **Faculty of Civil Engineering**
4. **Faculty of Mechanical Engineering**
5. **Faculty of Georessources and Materials Engineering**
   - Department of Raw Materials and Disposal Technology
   - Department of Metallurgy and Materials Science
   - Department of Earth Sciences and Geography
6. **Faculty of Electrical Engineering and Information Technology**
7. **Faculty of Arts and Humanities**
8. **Faculty of Business and Economics**
9. **Faculty of Medicine**

The faculty of Civil Engineering offers the following courses:

Civil Engineering (B.Sc. / M.Sc.)

Business Administration and Engineering: Civil Engineering (B.Sc. / M.Sc.)

Disposal Engineering (B.Sc. / M.Sc.)

Teacher-training Courses (Construction Technology, Wood Technology, Civil Engineering Technology)

Mobility and Transport (B.Sc. / M.Sc.)

Environmental Engineering (B.Sc. / M.Sc.)

Partner in ECER: Prof. Dr. Dirk Vallée

Main Research Areas of University Professor Dr. in Engeering. Dirk Vallée

Fundamentals of Urban, Regional and Transport Planning

Institute Internship Phase (Transport and Regional Development Planning)

Municipal and Regional Infrastructure Planning

Methodology of Transport Planning

Methodology of Urban and Regional Planning

Planning Methodology

Urban, Regional and Transport Planning I

Town Transport Planning Project Development and Implementation

Chair and Institute of Urban Engineering and Urban Transport

Director: University Professor Dr. in Engineering Dirk Vallée

Contact: Mies-van-der-Rohe-Str. 1, 52074 Aachen

Civil Engineering Building, 4th Floor, Room 409

Tel: +49 241 80 2520 0 / Secretary: +49 241 80 2520 1

Fax: +49 241 80 2224 7

E-mail: institut@isb.rwth-aachen.de

http://www.isb.rwth-aachen.de

European-Chinese Centre for Education and Research
in Regional Development Planning (ECER)

Free University of Berlin

Lecture:
Freedom, Excellence, Internationality –
Freie Universität Berlin today
THE INTERNATIONAL NETWORK UNIVERSITY

Prof. Dr.-Ing. Jochen H. Schiller,
Free University of Berlin

柏林自由大学

Freie Universität Berlin

Freedom, Excellence, Internationality –
Freie Universität Berlin today

THE INTERNATIONAL NETWORK UNIVERSITY

Prof. Dr.-Ing. Jochen H. Schiller
Jochen.Schiller@fu-berlin.de
October 2011

Freie Universität Berlin

Some Facts and Figures*

- founded in 1948 with support from the USA
- full-scale university with over 100 fields of study
- around 420 professors, 2,000 academic staff, and 28,500 students, 4,300 doctoral students
- International students 19 %, international doctoral students 24 %
- High proportion of women: 60% students, 44% academic staff, 34% junior professors, 21% professors
- Top 100 THE ranking in 2009, in various meta-rankings among Top 5 in Germany
- more than 140 university partnerships in place
- approved funding in all three funding lines of the German Initiative of Excellence
- Budget: 270 Mill € state funding, 105 Mill € third party funding

* Figures exclude Medical School Charité

Study Profile

- Comprehensive university with over 100 fields of study
- Bachelor and Master programs offered university-wide
- 11 Departments: Biology, Chemistry and Pharmacy; Business and Economics; Earth Sciences; Education and Psychology; History and Cultural Studies; Law; Mathematics and Computer Science; Philosophy and Humanities; Physics; Political and Social Science; Veterinary Medicine
- Central Institutes: John F. Kennedy Institute for North American Studies, Institute for Latin American Studies, Institute for Eastern European Studies
- Medical School Charité (joint school with Humboldt University)
- Berlin University for Professional Studies (joint venture with the publishing house Klett)

Freie Universität Berlin, Prof. Dr.-Ing. Jochen Schiller, October 2011 3

Research

- 5 Focus Areas: Area Studies, Humanities, Plant Sciences, Functional Materials (Nanoscale), Man in Urban Agglomerations
- 10 Research Units* (DFG- Forschergruppe)
- 19 Collaborative Research Centers* (DFG – SFB)
- 9 Research Training Groups*(DFG – Graduiertenkolleg)
- International Research Center for Theatre Studies (BMBF, 2007)
- DFG Research College The Transformative Power of Europe
- DFG Research Center Matheon (with TU and HU)
- Nobel prize winners since 1948: Max von Laue (physics), Ernst Ruska (physics), Bert Sakmann (medicine), Reinhard Selten (economics), Gerhard Ertl (chemistry), Ulrich Cubasch (IPCC, geosciences), Herta Müller (literature)
- 15 Leibniz prize winners
- Alexander von Humboldt-Professorship

*incl. Charité

Freie Universität Berlin, Prof. Dr.-Ing. Jochen Schiller, October 2011 4

Key Motivations for Internationalization

Recruitment of the best brains
- Worldwide competition for the best researchers, PhD candidates…
- Often the only way to survive for some subjects
- Too few good students in natural sciences

Increase of research quality
- Internationalization per se not a sign of quality
- However, many projects work only through cooperation
- Improved international standards

Improvement of teaching through intercultural competences
- Most companies are international, teaching must prepare students
- Cultural competence will also determine the success at work
- "Internationalization at home" in addition to study abroad

Principles of Internationalization

Excellence
- We don't internationalize for internationalization's sake but for additional quality.

Primacy of Research & Teaching
- All international activities are undertaken with the interests of researchers and students in mind.

Sustainability
- Formalized partnerships have to be based on more than one scientist. Scientists need support through contracts and administration if they are meant to be sustainable.

Taking into account local context
- All internationalization instruments have to take into account the local Berlin situation (financial situation, cooperation with other universities etc.)

Global Responsibility
- Internationalization is one way of showing the university's contribution to solving global problems and challenges.

Most successful university in the German Excellence Initiative

One out of nine German excellence universities

Research networks | Qualification networks | International networks

are created and supported through three strategic centers

Center for Cluster Development (CCD)	Dahlem Research School (DRS)	Center for International Cooperation (CIC)

Division International Network University

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CIC - Liaison Offices

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First results – International Network University

- Increase in international doctoral candidates (+59%), scientists (+32%), DAAD funding (+63%) [from 2006 to 2009]
- Top 10 destination worldwide for doctoral students from China (with government scholarships)
- Two new international research training groups (with Mexico and India), further in planning
- Higher visibility in general (progress in rankings, more enquiries for partnerships, exchanges, joint degrees)
- Systematic research planning, more interdisciplinary approaches, new development of focus areas
- More joint international research applications

Freie Universität Berlin, Prof. Dr.-Ing. Jochen Schiller, October 2011 9

Main campus located in the south west of Berlin

Freie Universität Berlin, Prof. Dr.-Ing. Jochen Schiller, October 2011 10

Architectural Variety

"Golden Hall"

Henry Ford building

Habelschwerdter Allee 45

Hahn-Meitner building

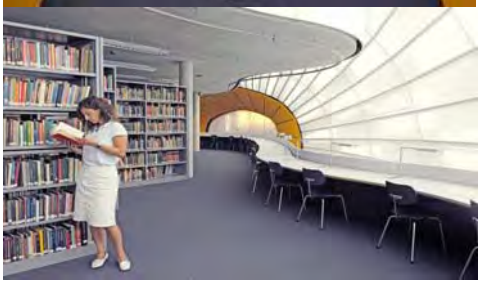
Campus Düppel

Campus Lankwitz

Botanical garden

Charité, Campus Benjamin Franklin

Architectural Variety



Philological Library

Architectural Variety

Seminaris CampusHotel Berlin – Science & Conference Center by Murphy / Jahn

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Strong ties with China

http://www.fu-berlin.org.cn/

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Strong ties with China

Celebration of 30 years of partnership with Peking University

Excellent Cooperation with China

Friendship Award of People's Republic of China for Geography Professor Bernd Wunnemann

Nr. 311/2011 from 10/10/2011

Bernd Wunnemann, professor of physical geography at Freie Universität Berlin and DAAD lecturer at Nanjing University, was recently honored by the People's Republic of China with a Friendship Award. Considered the highest award for foreigners in China, the Friendship Award is conferred on foreign experts who have made outstanding contributions to the scientific, cultural, and technological economic development of China.

Highest number of CSC students in Germany
Privileged partnership with CSC
Common summer schools
...

Freie Universität Berlin, Prof. Dr.-Ing. Jochen Schiller, October 2011 15

Institute for Computer Science
Fachbereich Mathematik und Informatik

- Ultra Short Overview -

Key data

Disciplines:

- Computer Science (BSc, MSc, Teacher education) (about 1200 students)
- Mathematics (BSc, MSc, Teacher education) (about 800 students)
- Computational Biology (BSc, MSc) (about 300 students)
- Scientific Computing (MSc) (reorganization)

Graduate Schools:

- BMS - Berlin Mathematical School
- IMPRS for Computational Biology and Scientific Computing
- GeoSim (Helmholtz Research School)
- MDS - Graduate School Methods for Discrete Structures

Professors:

- Computer Science (14 full tenured, 6 temporary)
- Mathematics (22 full tenured, 5 temporary)

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Research groups

Theoretical Computer Science
Database and Information Systems
Programming Languages
Software Engineering
Intelligent Systems
Algorithmic Bioinformatics
Network based Information Systems
Secure Identity

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Computer Systems and Telematics

Wireless mesh/ad-hoc networks
- 400 node test-bed, many tools

Wireless sensor networks
- Platform for several projects

Secure mobile communications
- Intrusion detection, public safety

Dependable systems
- Performance, dependability, and security evaluation of computing systems and networks

Reliable, verified embedded systems
- Embedded are > 95% of CPUs...

Public safety and security
- **National center for the "big" issues**

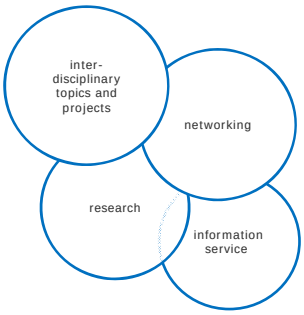
Professors
- J. Schiller
- M. Günes (ass. prof)
- M. Kyas (ass. prof)
- K. Wolter

Research Forum Public Safety

Research – Coordination – Networking – Communication

Interdisciplinary!

Workshops with
researchers,
politicians
media,
industry



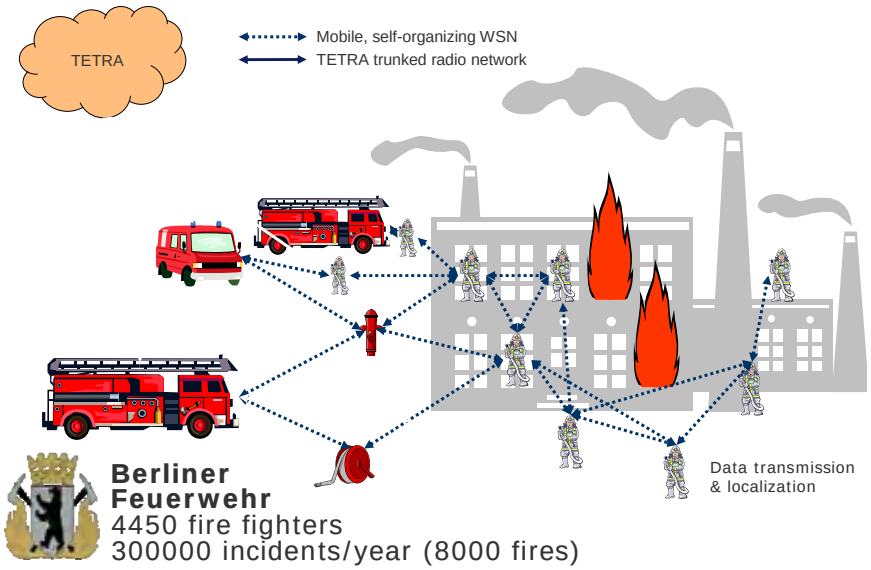
Research in the context of reliable and robust ICT systems

Information and Communication Technology (ICT) is a critical infrastructure today

- Breakdown of major parts of society without ICT
- ICT is key component for the development of mega cities
  - Smart grids, traffic control, food logistics…

What happens if there is no infrastructure after a disaster?

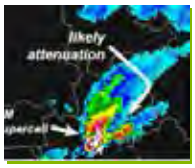
Project FeuerWhere – the extreme challenge



Berliner Feuerwehr
4450 fire fighters
300000 incidents/year (8000 fires)

Research in the context of Early Warning Systems (Cooperation with Fraunhofer FOKUS)

- Multi-hazard systems that are interoperable with other global, regional and individual EWS
- Targeted and situation-aware information
- Platform for implementing effective response plans on a local level
- Adaptable for the needs of heterogeneous communities and industries



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SAFE – Sensor-actuator-based early warning system for extreme weather conditions

Field tests 2008/09

Information for fire brigades and local authorities

Individual warnings for affected people

Alert signals for building automation

Wacker Chemie AG
- Information for operators
- Individual warnings for affected employees
- Alerts signals for sensitive production facilities

Freie Universität Berlin, Prof. Dr.-Ing. Jochen Schiller, October 2011 24

SAFE – Sensor-actuator-based early warning system for extreme weather conditions

Freie Universität Berlin

Sensor network

Impression of typical Master courses at FU Berlin / CS

Freie Universität Berlin

Preliminaries:

- Winter term: mid October – mid February
- 2 weeks Christmas break
- Semester break
- Summer term: mid April – mid July
- Semester break

Academic Degree: Master in Computer Science

Students may specialize in:

- Algorithms (Theory) , Telematics, Artificial Intelligence (Robotics etc), Distributed Information Systems, Software Engineering, Security, Compiler Construction.

More and more courses taught in English!

- Typically on demand (i.e. if a single non native German speaker attends)

Spatial Databases

Course: 30 hours Practice: 30 hours Credits: 5

Prerequisites:

Course on Relational database; Modeling, Rel. Algebra, SQL, Normalization, indexing (B-tree).

Contents:

- Representation of Spatial Objects
- Logical Models and Query Languages
- Spatial Access Methods
- Query Processing
- Commercial Systems
- Applications (e.g., Navigation Systems)

Book:

Rigaux / Scholl / Voisard: Spatial Databases with applications to GIS, Morgan Kaufmann, 2001

Mobile Communication

Course: 30 hours Credits: 3

Prerequisites:

Courses on Telematics

Contents:

- Wireless communication: signals, antenna, signal propagation, cell systems
- Media access: SDMA, FDMA, TDMA, CDMA;
- Wireless telecom. systems: GSM, DECT, TETRA, UMTS, IMT-2000; -
- Satellite Systems: GEO, MEO, LEO, Handover;
- Broadcast systems: Digital Audio Broadcasting, Digital Video Broadcasting; - WLAN: IEEE 802.11/15, Bluetooth;
- Protocol stack for wireless communication (e.g., mobile IP)
- Apps for wireless and mobile systems
- 4. Generation mobile networks

Book:

Schiller, J.: Mobile Communication, Addison-Wesley

谢谢

Profile of the University of

Free University of Berlin, Kaiserswerther Str. 16/18, 14195 Berlin

Motto	Veritas-Iustitia-Libertas *(Truth-Justice-Freedom)*
Foundation	December 4,1948
Sponsorship	State-sponsored
Location	Berlin
Federal State	Berlin
Country	Germany
President	Univ.-Prof. Dr. Peter-André Alt
Number of Students	31.304 (Winter Semester 2007/08)
Number of Employees	4.871 (2007)
Number of Professors	380 (2008)
Website	www.fu-berlin.de

Faculties and Departments

Free University of Berlin comprises twelve faculties, three central institutes (ZI) and eight central organizations (ZE).

Departments

1. Department of Biology, Chemistry, and Pharmacy
2. Department of Education and Psychology
3. Department of Earth Sciences
4. Department of History and Cultural Studies
5. Department of Mathematics and Computer Science
   - Institute of Mathematics
   - Institute of Computer Science
6. Department of Philosophy and Humanities
7. Department of Physics
8. Department of Political and Social Sciences
9. Department of Law
10. Department of Veterinary Medicine
11. Department of Business and Economics
12. Medical School - Charité - University Medicine Berlin

Central Institutes

1. John F. Kennedy Institute for North American Studies
2. Institute for Latin American Studies
3. Institute for East European Studies

Centers

1. Center for French Studies
2. Center for Italian Studies

Partner in ECER: Prof. Dr.-Ing. habil. Jochen H. Schiller

Institute of Computer Science offers the following programs:

Bachelor's Program Computer Science
Master's Program Computer Science
Teacher Training Course Related Bachelor's Program with Computer Science as a subject
Teacher Training Master's Program Computer Science
Computer Science as Minor Subject (Optional)
Combined Bachelor's Program with Computer Science as a 60- or 30-LP-Module
Research Forum of Public Security

Working Group Computer Systems & Telematics (CST) at the Institute of Computer Science

Director: Prof. Dr.-Ing. habil. Jochen H. Schiller

Contact:
Institute of Computer Science
Free University of Berlin
Takustr. 9, D-14195 Berlin
Germany
Tel: +49 30 838 75 213
Fax: +49 30 838 75 194
E-mail: schiller@computer.org, j.schiller @ ieee.org, schiller@inf.fu-berlin.de
www.jochenschiller.de

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

The University of Bremen

Lecture:
The University of Bremen

Prof. Dr. Hans-Dietrich Haasis,
Institute of Shipping Economics and Logistics, University Bremen

The University of Bremen

- founded in 1971
- follows the Bologna declaration
- scientific center of northwestern Germany
- 12 faculties
- 18.000 students
- 1.700 employees
- 290 full professors
- two international graduate schools
- seven collaborative research centers of the German Research Foundation (one in the field of logistics)

Universität Bremen

Quelle: BTZ Bremer Touristik Zentrale

Universität Bremen

The city of Bremen – “a logistics region“

- 550.000 habitants, a million in the metropolitan area
  85.000 employees in logistics companies
- North sea Maritime interface
  with 4 Mio. TEU/yr, 45 Mio to/yr among the 20 largest container ports of the world
  second largest for automotive logistics
- Multi-modal hub
  numerous freight centers and transport service providers
- International trade, business and transport
  Value added Services and infrastructure
  large automotive and aerospace industry, I&C companies, food industry
- Mobile City Bremen, RFID Transfer Centers

Universität Bremen

Quelle: BLG Logistics Group

Universität Bremen

Faculties at the University of Bremen:

- Physics/Electrical engineering
- Biology/Chemistry
- Mathematics/Computer Sciences
- Production Engineering
- Geosciences
- Law
- Business Studies and Economics
- Social Sciences
- Cultural Sciences
- Linguistics and Literary Studies
- Human and Health Sciences
- Pedagogical and Educational Sciences

Universität Bremen

Agenda

- **academic excellence**
- **interdisciplinary cooperation**
- **research and teaching of practical relevance and social responsibility**
- **Internationalization**
- **gender equity**
- **environmental sustainability**

Universität Bremen

The Faculty of Business Studies and Economics offers the following courses, Bachelor and Master:

- Business Studies and Management Science
- Economics
- Industrial Engineering
- Professional Public Decision Making
- Business Psychology
- Leadership and Organisational Development

Universität Bremen

Institute of Shipping Economics and Logistics
Bremen, Bremerhaven

1954 – 2011: more than 50 years of innovation in maritime economics and logistics

Due to its professional capability, superb reputation and exhaustive connections to politics, industry and the science, ISL will continuously contribute to the advancement of added value as well as to the maritime as to the logistics industry.

Logistics Systems
- Multimodal supply chains
- eBusiness and eLogistics
- Freight villages and meso-logistics
- Sustainable solutions and VAS

Maritime Economics and Transport
- Market analyses
- Port development planning
- Forecasts of port and hinterland transportation
- Worldwide simulation of transport and logistics nets

Planning and Simulation Systems
- Simulation models and business process modelling
- Optimisation algorithms
- Container and vehicle handling
- Visualisation of processes

Information Logistics
- Supply chain event management
- Tracking and tracing
- Web-based applications
- Security management

Universität Bremen

University of Bremen …
Engine of regional development

- **growing Technology Park**
  - 300 enterprises, 6.000 employees

- **Cooperation in the areas:**
  - Digital Media/Computer Science
  - Materials Science
  - Space Research
  - Marine Science
  - Logistics
  - Environmental Science

Universität Bremen

Universität Bremen

Profile of the University of

University of Bremen, Bibliothekstr. 1, 28359 Bremen

Motto	Ambitious and agile
Foundation	1971
Organizing Institution	SBW Bremen (governmental)
Location	Bremen
Federal State	Bremen
Country	Germany
President	Univ.-Prof. Dr. Wilfried Müller
Number of Students	18.000 (2011)
Number of Employees	1700 (2011)
Number of Professors	290 (2011)
Website	www.uni-bremen.de

Faculties

Faculties at the University of Bremen:

- Faculty 01: Physics/Electrical Engineering
- Faculty 02: Biology/Chemistry
- Faculty 03: Mathematics/Computer Science
- Faculty 04: Production Engineering – Mechanical Engineering & Process Engineering
- Faculty 05: Geosciences
- Faculty 06: Law
- Faculty 07: Business Studies and Economics
- Faculty 08: Social Sciences
- Faculty 09: Cultural Studies
- Faculty 10: Linguistics and Literary Studies
- Faculty 11: Human and Health Sciences
- Faculty 12: Pedagogical and Educational Sciences

The Faculty of Business Studies and Economics offers the following courses, Bachelor and Master:

- Business Studies and Management Science
- Economics
- Industrial Engineering
- Professional Public Decision Making
- Business Psychology
- Leadership and Organisational Development

Partner in ECER: Prof. Dr. Hans-Dietrich Haasis

Chair of Business Administration, Production Management and Industrial Economics
www.pro.wiwi.uni-bremen.de
as well as
Managing Director
ISL – Institute of Shipping Economics and Logistics, Bremen
www.isl.org
Phone: +49 – 421 – 2209610
Fax: +49 – 421 – 2209655
Email: Haasis@isl.org

Research topics of Professor Dr. Hans-Dietrich Haasis

Strategies and concepts in logistics and industrial production
Supply chain management
Transportation economics and planning
Inter-modal cargo transportation and freight villages/logistics parks
Cooperative meso-logistics and regional development
Mobility and urban/regional planning

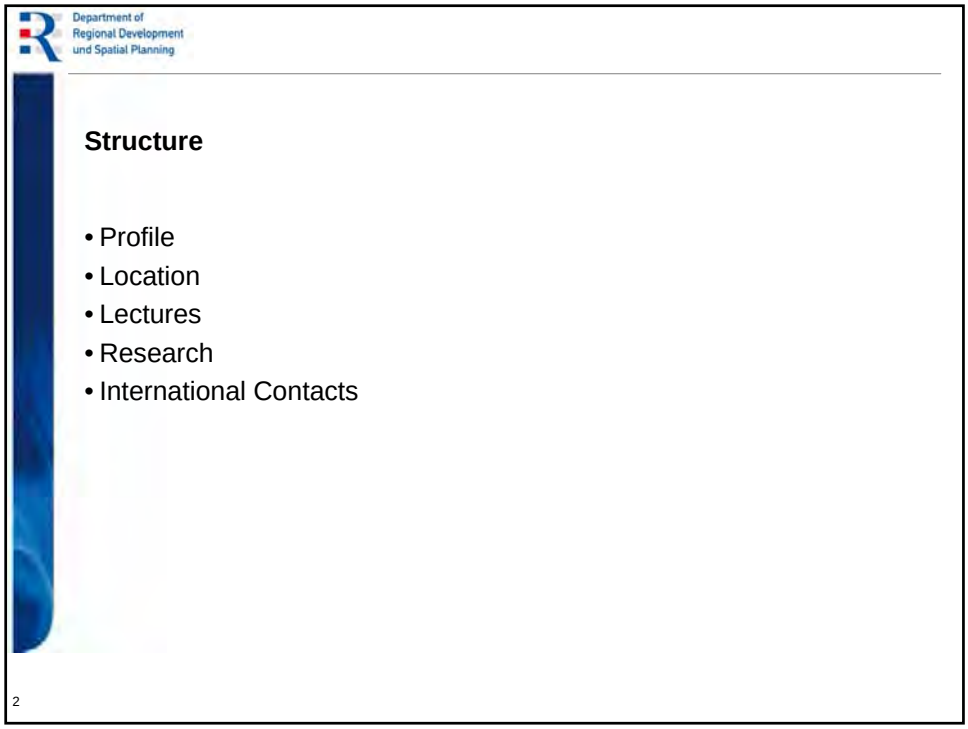
European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

Technical University of Kaiserslautern

Lecture:
Department of Regional Development and Spatial Planning

Univ.-Prof. Dr. habil. Gabi Troeger-Weiß,
Prof. Dr. Hans-Jörg Domhardt,
Technical University of Kaiserslautern


Technical University of Kaiserslautern
Department of
Regional Development and
Spatial Planning
Univ.-Prof. Dr. habil. Gabi Troeger-Weiß
Prof. Dr. Hans-Jörg Domhardt
Department of
Regional Development
und Spatial Planning
Technische Universität
Kaiserslautern


Department of
Regional Development
und Spatial Planning
Structure
• Profile
• Location
• Lectures
• Research
• International Contacts
2


Department of
Regional Development
und Spatial Planning
Department of
Regional Development and
Spatial Planning
Profile
3


Department of
Regional Development
und Spatial Planning
Profile
Department of Regional Development and Spatial Planning is…
… an institution at Technical University of Kaiserslautern
… attending to students of spatial planning
… doing research in the area of regional development
… networking regional players
… managing and marketing regions
… initiating sustainable development
4

Department of Regional Development und Spatial Planning

Profile

Our self-conception

The intention of regional development and spatial planning is to gain and create a sustainable renewal of regions and municipalities

- **Basic target**: Creation and protection of equal life conditions
- **Field of work**: interdisciplinary, sectionally oriented
- **Levels of action**: varies from the municipal and regional to the European level and from rural, economically underdeveloped areas to metropolitan areas

5

Department of Regional Development und Spatial Planning

Profile

Our self-conception

Regional development and spatial planning contains practice oriented research topics for the organisation, development and forming of regions

- **Current basic conditions**:
  new challenges under the influence of globalization, European integration, demographic changes, regional and municipal competition for population and enterprises, shrinking financial possibilities
- **Instrumental advancement**:
  new, informal instruments as a supplement to conventional, binding instruments

6

Department of Regional Development und Spatial Planning

Profile

We stand for…

- National and international reputation
- A high qualified and interdisciplinary oriented staff
- Expert knowledge in conducting and realising national and international research projects
- Know-how in developing sustainable concepts as expert consultants
- Well involvement in a network of public and private partners
- Expert knowledge in political consulting for all levels of action

Fundamental research

Planning and expertises

Project management

Further education offers

Consulting service

7

Department of Regional Development und Spatial Planning

Department of

Regional Development and Spatial Planning

Location

8

Department of Regional Development und Spatial Planning

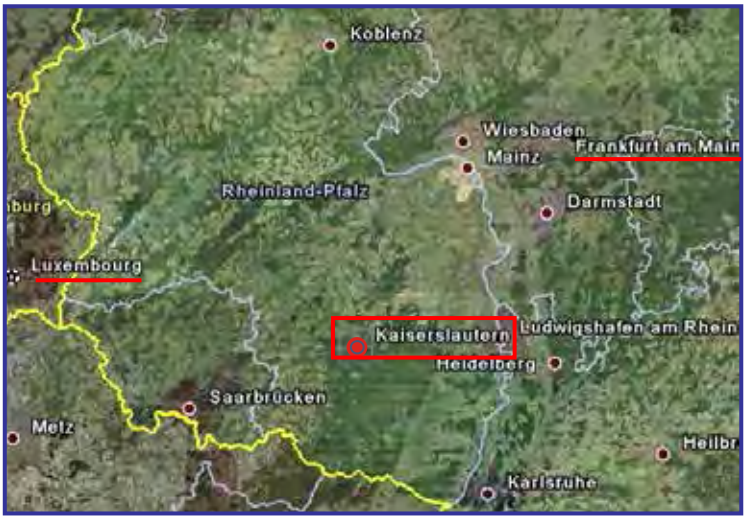
Location

SOUTHWESTERN GERMANY

9

Department of Regional Development und Spatial Planning

Location



RHINELAND-PALATINATE

10

Department of Regional Development und Spatial Planning

Location

KAISERSLAUTERN

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Department of Regional Development und Spatial Planning

Location

UNIVERSITY OF KAISERSLAUTERN

12

Department of Regional Development und Spatial Planning

Location

A section of the faculty „Spatial- and environmental planning“

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Department of Regional Development und Spatial Planning

Department of

Regional Development and
Spatial Planning

Lectures

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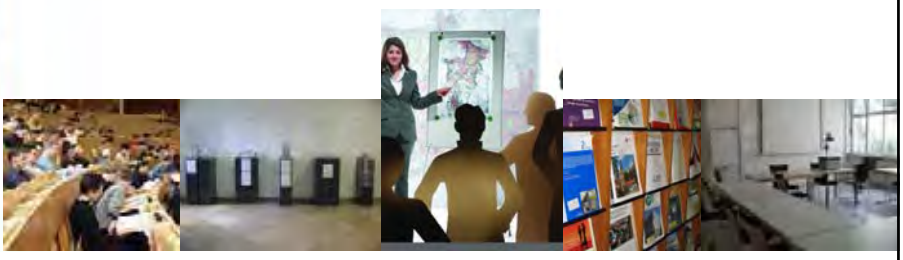
Department of Regional Development und Spatial Planning

Lectures

As to lecturing we participate in:

undergraduate

Bachelor of Science
„Spatial Planning“



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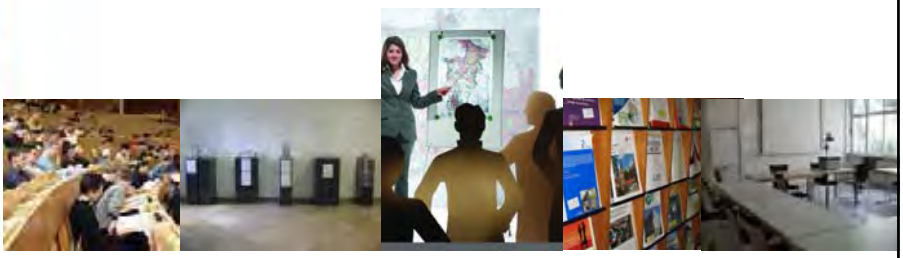
Department of Regional Development und Spatial Planning

Lectures

As to lecturing we participate in:

undergraduate

Bachelor of Education
„Geography (Teacher Training)“



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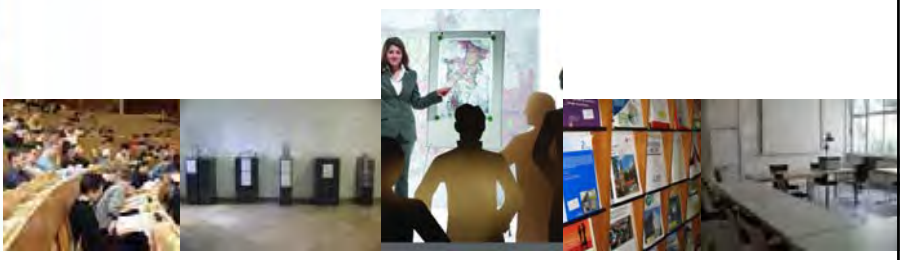
Department of Regional Development und Spatial Planning

Lectures

As to lecturing we participate in:

Graduate I

Master of Science
„Urban and Regional Development“



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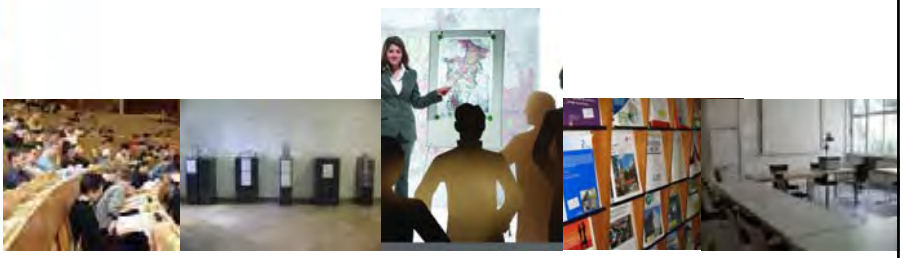
Department of Regional Development und Spatial Planning

Lectures

As to lecturing we participate in:

Graduate I

Master of Science
„Environmental Planning and Law“



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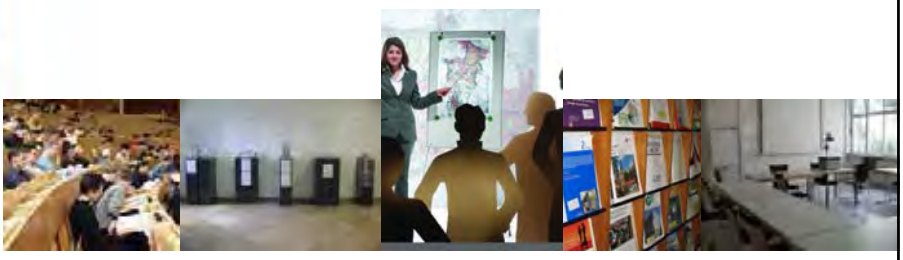
Department of Regional Development und Spatial Planning

Lectures

As to lecturing we participate in:

Post graduate

Dr.-Ing „Spatial Planning“



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Department of Regional Development und Spatial Planning

Department of

Regional Development and
Spatial Planning

Research

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Department of Regional Development und Spatial Planning

Research

Projects at regional level

Concept of Development Rhein-Sieg county 2020

- Regional concept for the handling of current challenges, e. g. demographic changes, regional location competition
- Fields of activity: habitation, economics, integration, education, tourism

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Department of Regional Development und Spatial Planning

Research

Projects at state level

Growth factors for rural areas in Rhineland-Palatinate

- Development of options for action in the topics of spatial planning and regional and strugtural policy

ENTWICKLUNGSAGENTUR RHEINLAND-PFALZ e.V.

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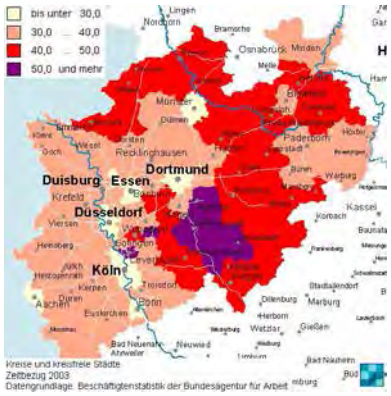
Department of Regional Development und Spatial Planning

Research

Projects at national level

Growth factors outside of metropolitan areas

- Research project for the Federal Office for Building and Planning



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Department of Regional Development und Spatial Planning

Research

Projects at national level

Development of City Regions

- Regulations for transport in regional plans
- Research Project for the Federal Ministry of Transport, Building and Urban Affairs

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Department of Regional Development und Spatial Planning

Research

Projects at European level

INTERREG IV b (transnational cooperation) - INNOCITÈ

- Improvement of the competitiveness of small-medium cities under the influence of alpine great urban centers

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Department of Regional Development und Spatial Planning

Research

Projects at European level

INTERREG IV b (transnational cooperation) - ViTo

- Integrated urban development of vital historic towns as regional centers in South East Europe

SOUTH EAST EUROPE
Transnational Cooperation Programme

ViTo
Integrated Urban Development of Vital Historic Towns as Regional Centres in South East Europe

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Department of Regional Development und Spatial Planning

Research

Projects at European level

INTERREG IV b (interregional cooperation) - ACCESS

- Improving accessibility of services of general interest – organisational innovations in rural mountain areas

ACCESS

IMPROVING ACCESSIBILITY OF SERVICES OF GENERAL INTEREST: ORGANISATIONAL INNOVATIONS IN RURAL MOUNTAIN AREAS

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Department of Regional Development und Spatial Planning

Department of

Regional Development and Spatial Planning

International contacts

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Department of Regional Development und Spatial Planning

International contacts

International Contacts

- University of California Berkeley, CA (USA)
- Virginia Polytechnic Institute and State University Blacksburg, VA (USA)
- Virginia Commonwealth University Richmond, VA (USA)
- American University of Sharjah (United Arabic Emirates)
- Sultan Qaboos University Muscat (Oman)
- Pontificia Universidad Cathólica del Ecuador (Ecuador)
- Nagoya University (Japan)
- University of Namibia (UNAM, Namibia)
- Polytechnic of Namibia (Windhoek, Namibia)
- Rjasan States Radiotecnic University (Russian Federation)
- University for Regional Development Prague (Czech Republic)
- University of West Bohemia (Czech Republic)
- University of Primorska Koper (Slowenien)

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Department of Regional Development und Spatial Planning

Thank you for your attention!

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Profile of the University of

University of Kaiserslautern, Pfaffenbergstraße 95

67663 Kaiserslautern

Foundation	July 13, 1970
Sponsorship	State-sponsored
Location	Kaiseslautern
Federal State	Rheinland-Pfalz
Country	Germany
President	Univ.-Prof. Dr. rer. nat. Helmut J. Schmidt
Number of Students	12.150 (2009)
Number of Employees	
Number of Professors	
Website	www.tu-kaiserslautern.de

Faculties and Departments

- Architecture, Civil Engineering, Regional and Environmental Planning
- Biology
- Chemistry
- Electrical and Computer Engineering
- Computer Sciences
- Mechanical and Computer Engineering
- Mathematics
- Physics
- Social Sciences
- Business Studies and Economics

Partner in ECER:
University of Kaiserslautern
Chair Regional and Environmental Planning

Prof. Dr. habil. Gabi Troeger-Weiß
Pfaffenbergstraße 95, Raum 1-022.1
67663 Kaiserslautern
Telefon 0631 - 205 47 01
Fax 0631 - 205 25 51
E-Mail: troegerw@keep-it-cleanrhrk.uni-kl.keep-it-cleande

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

University of Stuttgart

Lecture:
Master Course Infrastructure Planning
Universität Stuttgart

Prof. Markus Friedrich,
University of Stuttgart

Master Course Infrastructure Planning
Universität Stuttgart

Europäisch-Chinesisches Zentrum
für Ausbildung und Forschung
in Entwicklungs- und Raumplanung
27. Okt. 2011

Universität Stuttgart

www.uni-stuttgart.de

Content

- Master Course Infrastructure Planning
- Experience with Chinese Students
- Outlook

Contributing Institutes

- Institute of Regional Development Planning
- Institute of Landscape Planning and Ecology
- Institute for Urban Planning
- Institute for Road and Transport Science
- Institute of Railway and Transport Engineering
- Institute of Hydraulic Engineering
- Institute of Sanitary Engineering
- Institute for Application of Geodesy and Engineering
- Institute for Photogrammetry
- Institute for Construction Management
- Institute of Building Materials
- Institute of Economics and Law
- Institute for Social Sciences

Universität Stuttgart

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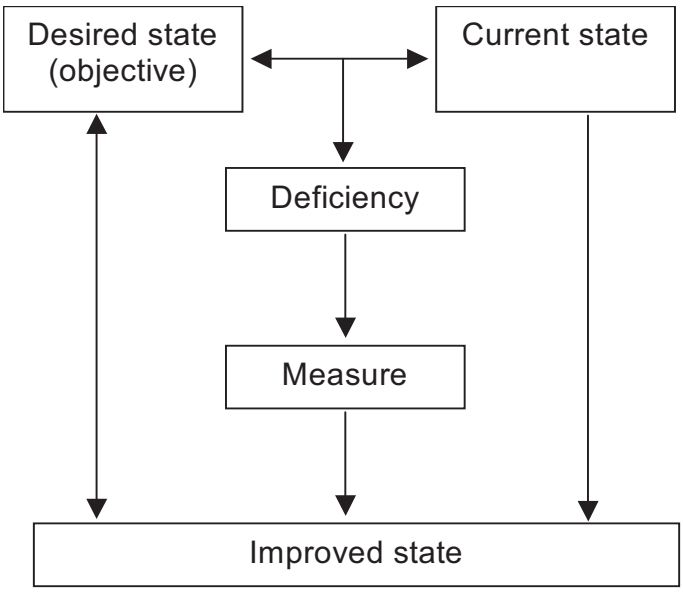
Structure of the Programme

- Term 1: Lectures
- Term 2: Lectures
- Term 3: Lectures & Case Study
- Term 4: Master Thesis

	Modules	ECTS
Modules Mandatory	9	54
Case Study Mandatory	1	12
Modules Elective	4	24
Master Thesis		30
Total		120

Integrated Planning

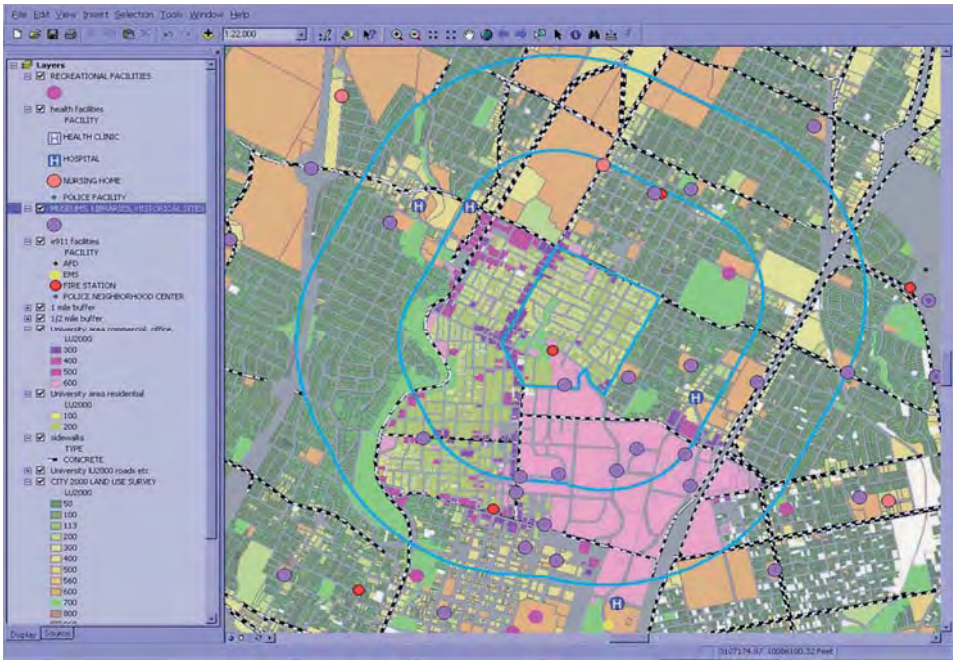


- The planning process
- Integration of land use planning, urban planning and transport planning

Universität Stuttgart

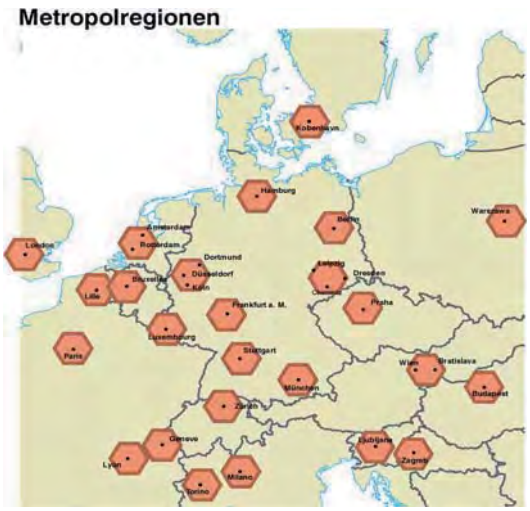
www.uni-stuttgart.de

Statistics & Geographic Information Systems



- Introduction to statistics and the related tools of information processing, GIS for data acquisition as well as basic knowledge about surveying and mapping

Regional Planning

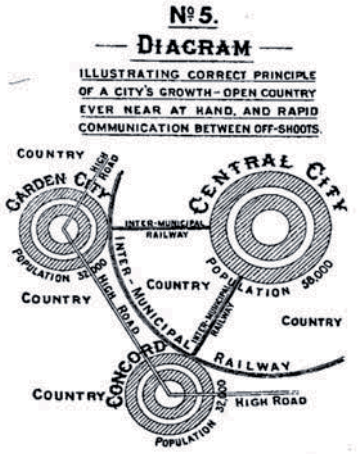


- Instruments of regional development: land use policy, infrastructure development, income and employment policy, population policy
- Spatial structures: hierarchies of central places, growth pole theory, concepts of axes, …
- Forecasting demographic development

Universität Stuttgart

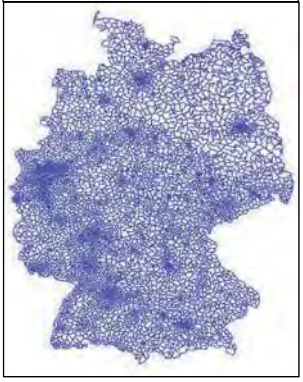
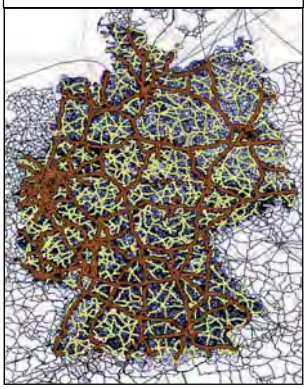
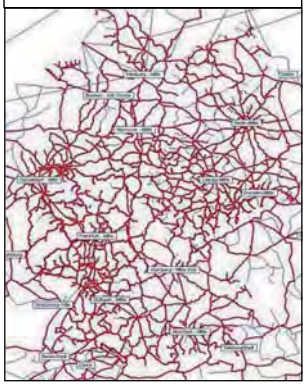
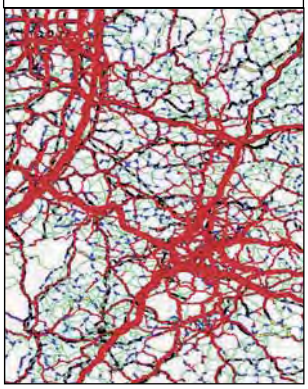
www.uni-stuttgart.de

Urban Planning



- history of urban planning
- urban development in developing countries (mega cities)
- implementation plans
- housing: housing standards, housing typologies, low cost housing, spontaneous settlement patterns

Transport Planning

Traffic Zones	Road Network	Public Transport	Volumes
			

- Travel patterns of humans
- Planning of multimodal transport networks
- Modelling of supply and demand interaction

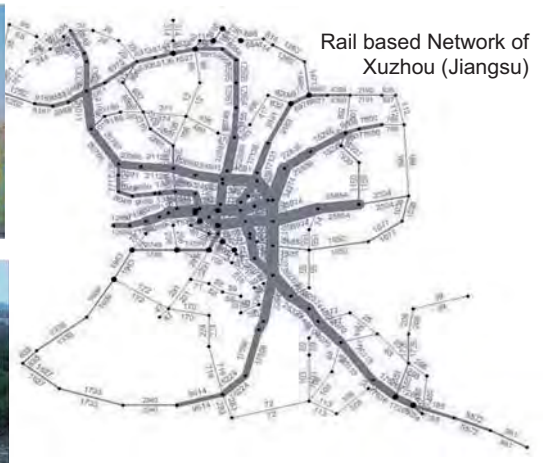
Universität Stuttgart

www.uni-stuttgart.de

Traffic Engineering

- Design of road transport facilities
- Highway capacity analysis
- Intelligent transport systems ITS
- Microscopic traffic flow simulation

Public Transport & Railway Operation



Rail based Network of Xuzhou (Jiangsu)

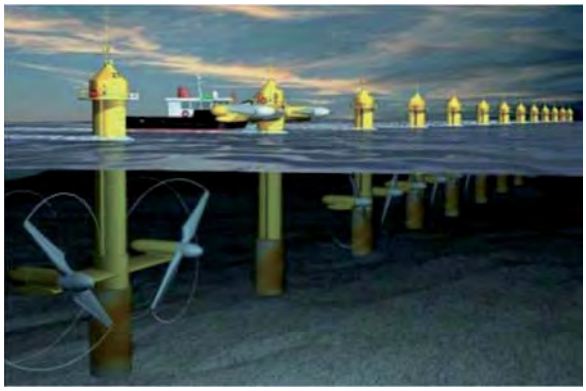
Design, planning and construction of longterm efficient, effective, productive and ecologically public transportation focussed on railway systems with consideration of prescribed safety regulations, including

- standardized evaluation of infrastructure investments and
- capacity research.

Universität Stuttgart

www.uni-stuttgart.de

Water & Power Supply



- Power demand worldwide
- Possibilities of energy production (thermal, nuclear, renewables)
- Economic, ecological and social considerations

Waste Water & Solid Waste

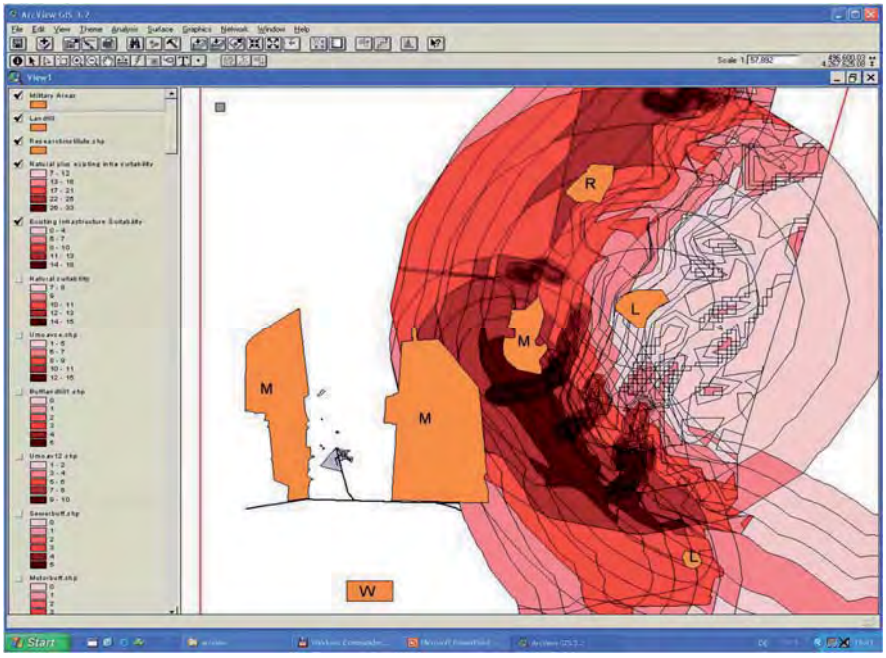
- Design of sewer systems and stormwater treatment
- Processes of biological waste water treatment plants and sludge treatment

Universität Stuttgart

www.uni-stuttgart.de

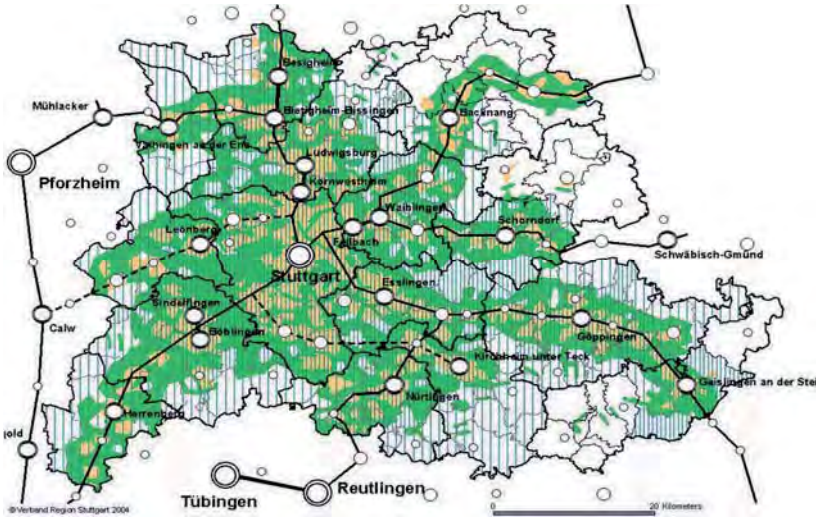
Economics

Land Use Suitability Analysis for Commercial Centres



- Introduction to economics with a special emphasis on infrastructure and urban economics, as economic aspects are becoming more and more important in the field of infrastructure planning.

Case Study



- Input: landuse, transport, population history & forecast
- Output:
  - allocation of population, industry, …
  - impact analysis
  - development of one area (conversion or new development)

Universität Stuttgart

www.uni-stuttgart.de

BNU Students in Stuttgart 2009 / 2010 / 2011

Academic Results

Students 2009-2011

Rank	China
1	
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Students 2010-2012

Rank	China	Rankg	China
1		21	
2		22	
3		23	
4		24	
5		25	
6		26	
7		27	
8		28	
9		29	
10		30	
11		31	
12		32	
13		33	
14		34	
15		35	
16		36	
17		37	
18		38	
19		39	
20			

Universität Stuttgart

www.uni-stuttgart.de

Academic Results

Students 2009-2011

Rank	China
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

Students 2010-2012

Rank	China	Rankg	China
1		21	
2		22	
3		23	
4		24	
5		25	
6		26	
7		27	
8		28	
9		29	
10		30	
11		31	
12		32	
13		33	
14		34	
15		35	
16		36	
17		37	
18		38	
19		39	
20			

Outlook Master of Infrastructure Planning

- Stuttgart University can continue to offer 10 places for students from China

Universität Stuttgart

www.uni-stuttgart.de

Outlook PhD Students

- four students from the 2009-2011 group found a professor willing to supervise them
- constraints for PhD studies
  - a professor can only supervise a limited number of PhD candidates
  - limitations in office space
  - PhD candidates require a scholarship

Profile of the University of

University of Stuttgart, Pfaffenwaldring 7, 70569 Stuttgart

Foundation	1829 (Vereinigte Real- und Gewerbeschule), University of Technology since 1876, University since 1967
Sponsorship	State-sponsored
Location	Stuttgart
Federal State	Baden Würtenberg
Country	Germany
President	Prof. Dr. Wolfram Ressel
Number of Students	20.468 (WS 2009/10)
Number of Employees	2.588 (2008)
Number of Professors	
Website	www.uni-stuttgart.de

Faculties and Institutes

University of Stuttgart comprises ten faculties:

Institutes of Faculty 1:	Architecture and Urban Planning
Institutes of Faculty 2:	Civil- and Environmental Engineering
Institutes of Faculty 3:	Chemistry
Institutes of Faculty 4:	Energy Technology, Process Engineering and Biological Engineering
Institutes of Faculty 5:	Computer Science, Electrical Engineering and Information Technology
Institutes of Faculty 6:	Aerospace Engineering and Geodesy
Institutes of Faculty 7:	Engineering Design, Production Engineering and Automotive Engineering
Institutes of Faculty 8:	Mathematics and Physics
Institutes of Faculty 9:	Humanities
Institutes of Faculty 10:	Management, Economics and Social Sciences

Faculty of Civil- and Environmental Engineering offers the following programs:

Civil- and Environmental Engineering:

- Institute of Structural Mechanics (IBB)
- Chair for Building Physics (LPB)
- Institute of Railway and Transportation Engineering (IEV)
- Institute of Geophysics (Geophys)
- Institute of Geotechnical Engineering (IGS)
- Institute for Lightweight Structures and Conceptual Design (ILEK)
- Institute of Applied Mechanics (Civil Engineering) (MIB)
  Institute of Applied Mechanics (Chair I)
  Institute of Applied Mechanics (civil engineering), Chair II
- Institute of Regional Development Planning (IREUS)
- Institute for Sanitary Engineering, Water Quality and Solid Waste Management (ISWA)
  - Chair for Waste Water Management and Water Recycling
  - Chair for Waste and Exhaust Air Management
  - Chair for Hydrochemistry and Hydrobiology in the Waste Water Management
- Institute for Road and Transportation Science (ISV)
  - Chair for Road Design and Construction
  - Chair for Traffic Planning and Traffic Technology
- **Institute of Hydraulic Engineering (IWS)**
  - Chair for hydraulic engineering and Water Resources Management
  - Chair for Hydromechanics and Modeling of Hydrosystems
  - Chair for Hydrology and Geohydrology
- Institute of Construction Materials (IWB)

Partner in ECER:

Institute of Roads and Transportation
Chair for Traffic Planning and Traffic Guidance Technology
Prof. Dr.-Ing. Markus Friedrich
Pfaffenwaldring 7
70569 Stuttgart
Tel. +49 (0)711/685-82480
Fax +49 (0)711/685-82484
Email markus.friedrich@isv.uni-stuttgart.de

International Master's program "Infrastructure Planning" (Curriculum submitted by BNU), in which the first 10 students from BNU have been taught.

European-Chinese Centre for Education and Research in Regional Development Planning (ECER)

University of Trier

Lecture:
Sustainable Urban and Regional Development Related Master-Programmes and PhD Studies at the University of Trier

Prof. Joachim Hill,
Vice President University Trier

Universität Trier

Sustainable Urban and Regional Development

Related Master-Programmes and PhD Studies at the University of Trier

Universität Trier

A Campus University

- **> 15,000 Students**
- **1,500 from abroad**
- **6 Faculties**
- **170 Professors**

Main Campus &
Central Facilities

Campus II: Environmental Sciences, Geography

2

Universität Trier

Partnerships

- In 2007 a cooperation agreement between the Universities of Xiamen (China) and Trier entered into force
- Regular exchange of students between both universities
- Confucius Institute (since 2008)
- Formal partnership agreement between the municipalities of Xiamen and Trier (2009), signed in 2011
- Partnership University Wuhan (since 1987)

11 Nov 2010
Municipal Partnerhip Trier - Xiamen

Universität Trier

The University of Trier has developed a strong tradition in academic education and research on Eastern Asia

- Chinese Language and Culture (Sinology)
- Confucius Institute (since 2008)
  [a non-profit public institutions that aim to promote Chinese language and culture, support local Chinese teaching internationally, as well as facilitating cultural exchanges]

- Research Group on the Political Economy of China
  [research on the economic and political system of contemporary China based on universal social science research methods]
- Environmental Research Group (Faculty of Geography/Geosciences)
  [research on land use change processes and environmental management in China, recently expanded by integrating expertise on economic and environmental statistics]

  Geography, Geobotany & Biogeography, Soil Sciences, Env. Remote Sensing & Geoinformatics, Env. Climatology, Geology, Hydrology
- Centre for East Asia & Pacific Studies
  [interdisciplinary research on cultural, political and economic issues, with particular emphasis on China and Japan]

Universität Trier

Research Group on the Political Economy of China
Prof. S. Heilmann (Political Science)

Forschungsgruppe Politik und Wirtschaft Chinas
Research Group on the Political Economy of China
headed by Sebastian Heilmann, Professor of Government, Trier University
homepage: *www.chinapolitik.de*

Objectives of the research group:
- gaining fresh insights and deepening research on the economic and political system of contemporary China
- applying universal social science research methods to China
- while taking seriously the distinctiveness of the Chinese context
- maintaining strict standards of independent scholarly research
- holding regular workshops with national and international, academic and non-academic China specialists

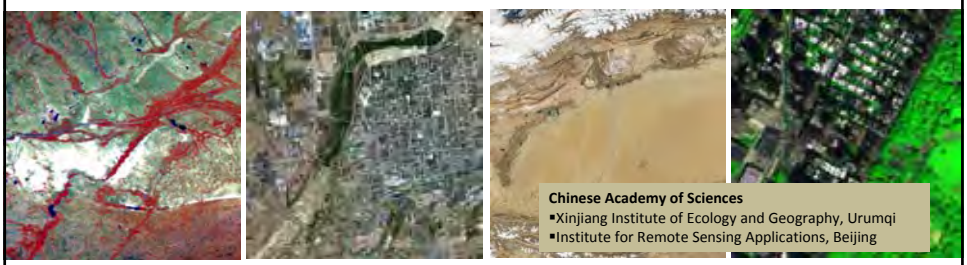
Third Party Project:
"Chinas Politikprozess: Wirtschafts- und Technologiepolitik" im nationalen Kompetenznetzwerk "Regieren in China" (gefördert vom BMBF) [www.chinovation.org]
Leitung: Prof. Heilmann, 2010-2014.

- by combining these capabilities they are qualified to contribute fresh insights and balanced judgements that go beyond euphoric "China hype" or emotional "China bashing".

Universität Trier

Research Group on Environmental Assessment & Development

Prof. F. Thomas (Geobotany)
Prof. J. Hill (Environmental Remote Sensing & Geoinformatics)



Chinese Academy of Sciences
- Xinjiang Institute of Ecology and Geography, Urumqi
- Institute for Remote Sensing Applications, Beijing

Third Party Projects:
„DeSurvey: Land Use Change and Land Degradation Assessment" (gefördert von EU, FP6) – Study Region Horqin Sandy Lands (Inner Mongolia, China), Prof. Hill, 2006-2010

„Sustainable Management of River Oasis along the Tarim River"(gefördert vom BMBF)
Prof. Thomas, Prof. Hill, 2011-2015

Universität Trier

Environmental Planning and Integrated Risk Assessment

- Regional climate change and discharge of the Tarim River tributaries
- Sustainable land use management in the Tarim region: Water demand, water quality and biomass production
- Ecosystem services and ecosystem functions (ESS/ESF) of ecosystems along the Tarim River
- Multi-level socio-economic assessment of ecosystem services and implementation tools

Universität Trier

Sustainable Management of River Oasis along the Tarim River

Global Level:

- a 700% increase in global fertilizer use and a 70% increase in irrigated cropland area during the past 40 years,
- increasing fertilizer use has led to the degradation of water quality in many regions,
- some irrigated lands have become heavily salinized, causing the worldwide loss of 1.5 million hectares of arable land per year, along with an estimated $11 billion in lost production,
- up to 40% of global croplands may also be experiencing some degree of soil erosion, reduced fertility, or overgrazing.

Universität Trier

- Ecosystem Research
- Land Use Monitoring & Land Use Management
- Land Degradation & Desertification
- Agricultural Production Monitoring
- Soil Assessment (e.g. Salinity Mapping)
- BioMonitoring (damage by photooxidants, distribution of pollutants)
- Ecophysiology, Conservation & Restoration of Biotopes

The Tarim River Basin II Project (World Bank 2008)

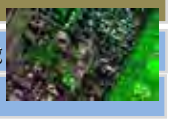
Universität Trier

Additional Assets (1)

Master Programme „Environmental Sciences“ (in English)

1	2	3	4

Environmental Monitoring & Pollution Assessment



Environmental Remote Sensing

Environmental Climatology

Master Thesis

Environmental Conservation & Restoration Management

Faculty of Geography/Geosciences

Universität Trier

Additional Assets (2)

Research Centre for Regional and Environmental Statistics

Statistics, Mathematics, Environmental Sciences

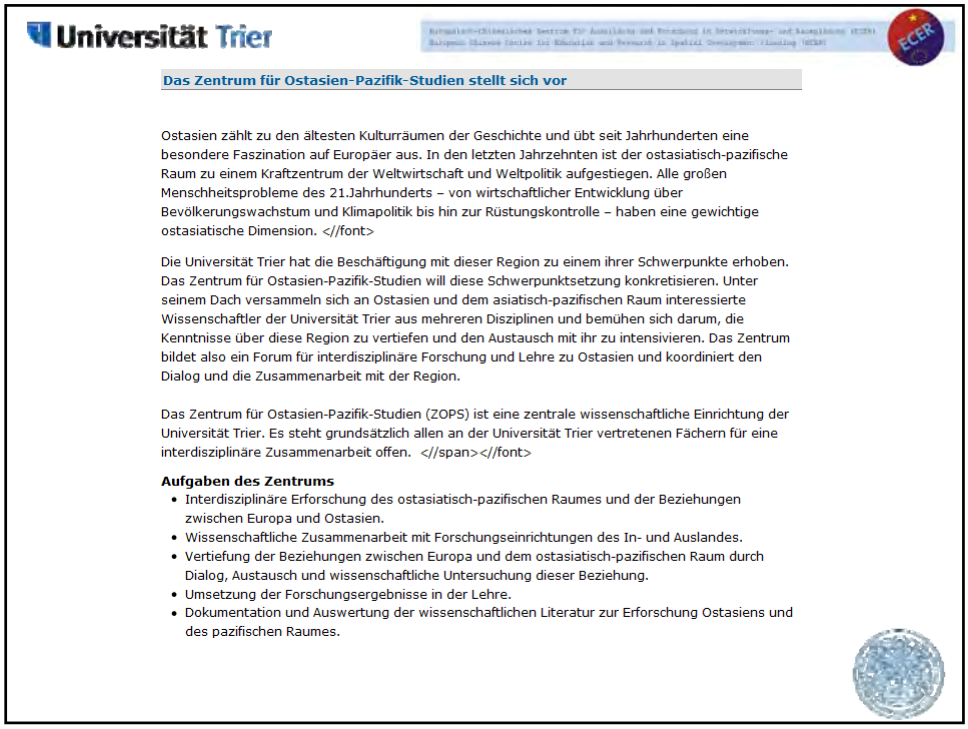
Prof. R. Münnich (Economic & Social Statistics)

Focus on Census Statistics, Statistical Downscaling

Universität Trier

Additional Assets (3)

Faculty of Geography/Geosciences : two vacant Chairs in „Regional Planning and Development“ to be refilled within the coming years (2012/2013)



Universität Trier

Das Zentrum für Ostasien-Pazifik-Studien stellt sich vor

Ostasien zählt zu den ältesten Kulturräumen der Geschichte und übt seit Jahrhunderten eine besondere Faszination auf Europäer aus. In den letzten Jahrzehnten ist der ostasiatisch-pazifische Raum zu einem Kraftzentrum der Weltwirtschaft und Weltpolitik aufgestiegen. Alle großen Menschheitsprobleme des 21.Jahrhunderts – von wirtschaftlicher Entwicklung über Bevölkerungswachstum und Klimapolitik bis hin zur Rüstungskontrolle – haben eine gewichtige ostasiatische Dimension. <//font>

Die Universität Trier hat die Beschäftigung mit dieser Region zu einem ihrer Schwerpunkte erhoben. Das Zentrum für Ostasien-Pazifik-Studien will diese Schwerpunktsetzung konkretisieren. Unter seinem Dach versammeln sich an Ostasien und dem asiatisch-pazifischen Raum interessierte Wissenschaftler der Universität Trier aus mehreren Disziplinen und bemühen sich darum, die Kenntnisse über diese Region zu vertiefen und den Austausch mit ihr zu intensivieren. Das Zentrum bildet also ein Forum für interdisziplinäre Forschung und Lehre zu Ostasien und koordiniert den Dialog und die Zusammenarbeit mit der Region.

Das Zentrum für Ostasien-Pazifik-Studien (ZOPS) ist eine zentrale wissenschaftliche Einrichtung der Universität Trier. Es steht grundsätzlich allen an der Universität Trier vertretenen Fächern für eine interdisziplinäre Zusammenarbeit offen. <//span><//font>

Aufgaben des Zentrums

- Interdisziplinäre Erforschung des ostasiatisch-pazifischen Raumes und der Beziehungen zwischen Europa und Ostasien.
- Wissenschaftliche Zusammenarbeit mit Forschungseinrichtungen des In- und Auslandes.
- Vertiefung der Beziehungen zwischen Europa und dem ostasiatisch-pazifischen Raum durch Dialog, Austausch und wissenschaftliche Untersuchung dieser Beziehung.
- Umsetzung der Forschungsergebnisse in der Lehre.
- Dokumentation und Auswertung der wissenschaftlichen Literatur zur Erforschung Ostasiens und des pazifischen Raumes.

Universität Trier

Heilmann studierte von 1984 bis 1990 Politikwissenschaft, Sinologie und Vergleichende Sprachwissenschaft in Tübingen und Nanjing (VR China). Anschließend folgten einige Forschungsaufenthalte in den Vereinigten Staaten (Stanford University und University of California, Berkeley) und Ostasien (Beijing und Taibei). 1993 promovierte Heilmann schließlich an der Rechts- und Wirtschaftswissenschaftlichen Fakultät der Universität Saarbrücken. Von 1994 bis 1999 war er dann Wissenschaftlicher Referent für die Politik Chinas am Institut für Asienkunde in Hamburg. Ruf auf eine C4-Professur für Politikwissenschaft im Bereich Regierungslehre mit Schwerpunkt Ostasien an die Universität Trier. Für den Zeitraum 2010 bis 2014 wurde ihm die Leitung des Projekts „Chinas Politikprozess: Wirtschafts- und Technologiepolitik“ im nationalen Kompetenznetz „Regieren in China“ (gefördert vom Bundesforschungsministerium BMBF) übertragen. Im Jahr 2010 erhielt Heilmann Rufe auf W3-Professuren von der Universität Duisburg-Essen für das Fach Politikwissenschaft sowie von der Universität Heidelberg für das Fach Sinologie.

Drittmittelprojekt: "Chinas Politikprozess: Wirtschafts- und Technologiepolitik" im nationalen Kompetenznetzwerk "Regieren in China" (gefördert vom BMBF), [www.chinovation.org], Leitung: Prof. Heilmann, 2010-2014.
Drittmittelprojekt "Geldwäscheregulierung in der VR China" (gefördert von der DFG), Leitung: Prof. Heilmann, 2007-2009.
Drittmittelprojekt "Die Politik der Geldwäscheregulierung in der BRD und dem Vereinigten Königreich" (im Rahmen von REGEM; gefördert von der DFG), Leitung: Prof. Heilmann, 2004-2006.

Analyse der Robustheit und Sensitivität der verwendeten Modelle
Forschungskolloquium
Veröffentlichungen
Veröffentlichungen
Top-Links
Forschungskolloquium
Das Forschungsgebiet
In der angewandten Umwelt- und Wirtschaftsforschung werden regionale Fragestellungen immer bedeutender. Als Grundlage einer raumbezogenen Forschung ist eine räumlich differenzierte Datenbasis von hoher statistischer Qualität unverzichtbar, auch h waltung.
Zu den Fragestellungen der angewandten Wirtschaftsforschung gehören beispielsweise die A
Globalisierung und der demographischen Alterung auf regionale Wirtschaftsstrukturen, wie l
Fragestellungen existieren hochentwickelte theoretische Modellansätze; deren Anwendung a ional
disaggregierte volkswirtschaftliche Daten fehlen.
Zu den umweltrelevanten Fragestellungen gehört die regionale Differenzierung von Klimaänd egien zu
entwickeln. Es ist nämlich zu erwarten, dass sich infolge von Klimaänderungen die Hochwasse en für
Wälder und landwirtschaftliche Nutzpflanzen ändern. Für eine vorsorgende Planung ist eine p erlich, z.B.
durch statisches Downscaling.
Diese Beispiele zeigen, wie wichtig disaggregierte Datenbasen für die raumbezogene Forschu n
Forschungszentrum soll dieses Defizit abgeschwächt, wenn möglich sogar überwunden werd ne
aggregierte Daten modellbasiert räumlich und sachlich zu untergliedern. Diese Modelle gehö eutschland
bisher noch nicht angewandter Methodenkomplex. Die Verfügbarkeit dieser Methoden ist un von
Statistikpflichten die Erhebungstiefe von Statistiken voraussichtlich deutlich reduzieren werd
Die Forschung deckt somit drei zentrale Gebiete ab:

Weiterentwicklung von Methoden und Modellen zur Beantwortung regionaler Fragestellunge n
Simulationsmethoden bereitgestellt bzw. verbessert werden.
Entwicklung eines Methodenkomplexes, um Daten für die Simulationsmodelle in verschieden
Analyse des Datengewinnungsprozesses hinsichtlich Aussagequalität der umwelt- und wirtsch ie
Forschung relevant, aber auch wichtig für die Beratung der öffentlichen Verwaltung und Polit

Das skizzierte Themenspektrum wird in der Startphase durch eine Reihe von Initialprojekte
Überprüfung der Sonderfragestellung der Gemeindekennwerte in Rheinland-Pfalz im Zensus
Regionalisierung von statistischen Hochwasserkennwerten
Forstinventur/Holzvorratsschätzung auf verschiedenen räumlichen Skalen
Ökonomische Analyse regionaler Arbeitsmarktentwicklungen
Verbesserung der Verfügbarkeit von tief regionalisierten Daten durch verbesserte Methoden
Analyse der Robustheit und Sensitivität der verwendeten Modelle

Im Forschungszentrum Statistik (ForumStat) wird von Anfang an ein weites Methodenspektrum abgedeckt. Dazu gehören neben den oben bereits erwähnten Methoden innovative Datenaufbereitungs- und Analysemethoden, Berechenbare Gleichgewichtsmodelle, eine breite Palette numerischer Verfahren zur Modellanalyse, Kalibrierungs- und Optimierungsmethoden, sowie Verfahren zur Modellreduktion. Insbesondere das Zusammenspiel dieser Methoden ist für die Analyse der aufgezeigten Fragestellungen vielversprechend und in dieser Form bisher einzigartig.
Das ForumStat ist eine fachübergreifende Exzellenzgruppe mit dem Ziel, zentrale Forschungsfragen der Umwelt- und Regionalwissenschaft durch Anwendung eines angepassten und erweiterten statistischen Methodenspektrums zu unterstützen.

FB VI

Geographie
Geowissenschaften

Ziele und Leitidee

Ziel des international und interdisziplinär ausgerichteten Master-Studiengangs Environmental Assessment and Management (EAM) ist es, die Studierenden auf der Basis einer hohen Methoden- und Systemkompetenz und unterschiedlicher wissenschaftlicher Sichtweisen zu eigenständiger Forschungsarbeit im Bereich der Umweltwissenschaften zu befähigen. Er liegt somit die Basis für eine wissenschaftliche Tätigkeit auf hohem akademischem Niveau, qualifiziert für die Bearbeitung komplexer Probleme in der Praxis und fördert allgemein berufsrelevante Fähigkeiten bspw. in den Bereichen Nachhaltigkeit, Ressourcen / Umweltplanung, Umweltbewertung, Umweltinformatik, Klimawandel oder Hochwasserschutz. Die Absolventinnen und Absolventen werden damit zu Fach- und Führungskräften in Universitäten, Forschungsinstitutionen, Umwelt- und Planungsbüros, Behörden sowie relevanten Abteilungen in Banken, Versicherungen und Industrie ausgebildet. Grundsätzlich können sie ein Promotionsstudium anschließen.

Studiengang M.Sc. Environmental Assessment and Management (EAM)

Der Master-Studiengang EAM wird als Kernfach angeboten. Sein Profil verbindet bio- und geowissenschaftliche Fachrichtungen mit Aspekten der chemischen Umweltanalytik, der Messtechnik, der raumbezogenen Datenerhebung, -vorhaltung und -bearbeitung sowie der Umsetzung dieser Kenntnisse in vorsorgender Umweltplanung und im Umweltmanagement. Der Studiengang gliedert sich in drei Schwerpunkte:

1. Environmental Monitoring and Pollution Assessment (EAM 1),
2. Environmental Remote Sensing and Modelling (EAM 2)
3. Environmental Conservation and Restoration (EAM 3).

Jeder dieser Schwerpunkte umfasst vier Semester, bestehend aus Pflicht- und Wahlmodulen. Diese basieren auf den speziellen Kompetenzen der Geowissenschaften an der Universität Trier und der kooperierenden Fächer (z.B. Jura, VWL, Kommunalwissenschaft/-entwicklung). Das erste Semester dient dazu, die Studierenden in den für alle drei Schwerpunkte verpflichtenden Lehrinhalten auf ein einheitliches Wissensniveau zu bringen. Im zweiten und dritten Semester folgen vertiefende Module, die schwerpunkt-relevante Studieninhalte aufweisen. Die Veranstaltungen werden überwiegend in englischer Sprache angeboten.

Ansprechpartner für die Studiengänge

Prof. Dr. Dr. Klaus Fischer (Chemie), E-Mail: fischerk@uni-trier.de
Prof. Dr. Joachim Hill (Fernerkundung), E-Mail: hilj@uni-trier.de
Dr. Reinhard Bieri (Hydrologie), E-Mail: bieri@uni-trier.de

Informationen zu den Studiengängen und zur individuellen Studienberatung finden Sie auf: http://www.uni-trier.de/?id=9279

Universität Trier
Fachbereich VI
Geographie/Geowissenschaften
54286 Trier
Tel. 0651-201-4528/4550 (Dekanat)
Fax 0651-201-3939 (Dekanat)
http://www.uni-trier.de/?id=2268

Universität Trier

Die Universität Trier, 1473 gegründet und in der Napoleonischen Zeit aufgelöst, wurde 1970 als Campusuniversität wiedererrichtet. Ihre Schwerpunkte sind neben Geographie/Geowissenschaften sprach- und kulturwissenschaftliche Fächer, Rechts-, Wirtschafts- und Sozialwissenschaften sowie Mathematik/Informatik. Mit derzeit rund 14.600 Studierenden (WS 2008/09) gehört sie zu den noch überschaubaren deutschen Universitäten.

Die Campus-Anlage, eine der schönsten in Deutschland, gliedert sich in zwei Teilbereiche. Auf dem Campus II sind u.a. die geographischen und geowissenschaftlichen Fächer untergebracht. Des Weiteren befinden sich dort eine Bibliothek, einer Mensa und Wohnheime. Die biowissenschaftlichen Fächer befinden sich derzeit noch im Wissenschaftspark, unweit des Campus II.

http://www.uni-trier.de

Fachbereich VI Geographie/Geowissenschaften

Hinsichtlich der Studierendenzahlen (WS 08/09: rd. 1.720), Angebotsbreite (7 geographische und 11 geowissenschaftliche Fächer mit insgesamt 20 Professuren und über 50 Mitarbeiterinnen und Mitarbeitern) und Abschlussdifferenzierung (11 Studiengänge) zählt der Fachbereich VI Geographie / Geowissenschaften zu einem der größten geographisch/geowissenschaftlich ausgerichteten Fachbereiche in Deutschland. Eine hohe Anzahl an Promotionen zeigt das besondere Engagement in der Nachwuchsförderung.

Stadt Trier

Die älteste Stadt Deutschlands liegt im Westen des Landes Rheinland-Pfalz, im Moseltal zwischen Eifel und Hunsrück. Nicht nur die Römer haben in Trier mit der Porta Nigra und vielen anderen architektonischen Sehenswürdigkeiten ihre Spuren hinterlassen. Aufgrund seiner faszinierenden Geschichte und seiner lebendigen Kultur wird Trier von Menschen aus aller Welt besucht. Hinzu kommt die Nähe zu Luxemburg, Frankreich und Belgien, die wesentlich zum internationalen Flair der Stadt beiträgt.

http://www.trier.de

FB VI

Geographie
Geowissenschaften

bitte Bild ersetzen durch neues Bild !! bitte

Lehren - Lernen - Forschen
für die Umwelt

Master of Science

Environmental Assessment and Management

Environmental Sciences

Beteiligte Fächer:

Analytische & Ökologische Chemie
Bodenkunde
Fernerkundung & Geoinformatik
Geobotanik
Geologie
Hydrologie
Kartographie
Umweltmeteorologie
Kommunalwissenschaft
Kommunal- & Umweltökonomie am FB IV
Umweltrecht am FB V (Jura) sowie
Centre de Recherche Public
Gabriel Lippmann (CRPGL Luxemburg)
CFSTC Universität Luxemburg

Universität Trier

FB VI Geo
Geographie
Geowissenschaften

Universität Trier
Fachbereich VI
Geographie/Geowissenschaften
54286 Trier
Tel. 0651-201-4528/4530 (Dekanat)
Fax 0651-201-3939 (Dekanat)
http://www.uni-trier.de/?id=2268

MSc Environmental Assessment and Management (EAM)

EAM 1: Environmental Monitoring and Pollution Assessment

Der Studienschwerpunkt ‚Environmental Monitoring and Pollution Assessement' (EAM 1) setzt sich mit der wissenschaftlichen Umweltbeobachtung und der Bewertung durch Schadstoffeinträge und Klimawandel auseinander. Den Masterstudierenden wird das wissenschaftliche Werkzeug vermittelt, um Umweltzustände erfassen und bewerten zu können. Dazu gehört das methodische Inventar der chemischen Umweltanalytik, der biologischen Inventuren und der physikalischen Messmethoden. Deshalb werden die im Bachelor-Studium erworbenen methodischen Fähigkeiten in chemischer Analytik, Meteorologie, Fernerkundung, Statistik und Geoinformationssystemen vertieft und in Projektstudien angewendet, damit das multivariate raum-zeitliche Geschehen in der Umwelt der Fragestellung nach adäquat gemessen, dokumentiert und interpretiert werden kann. Diese Fähigkeiten werden durch im ersten und zweiten Semester zu absolvierende Pflichtmodule erworben, die dann durch Wahlmodule in einigen Fächern wie Bodenkunde, Umweltmeteorologie, Hydrologie oder Umweltchemie ergänzt werden.

Studienverlaufsplan Environmental Monitoring and Pollution Assessment

EAM 2: Environmental Remote Sensing and Modelling

Der Schwerpunkt ‚Environmental Remote Sensing and Modelling' (EAM 2) zielt auf eine fernerkundliche Erfassung und Ableitung von Umweltdaten und Umweltzuständen ab. Hierzu sind physikalisch und numerisch basierte Verfahren notwendig, um Satellitenbilder zu verarbeiten und Informationen daraus ableiten zu können. In diesem Schwerpunkt stehen die Entwicklung und Anwendung numerischer Modelle zur Ableitung räumlich-expliziter Umweltinformationen im Vordergrund (Umweltinformatik). Zur Überprüfung der Ergebnisse werden zudem gezielt Geländemessungen und Laboruntersuchungen angesetzt. Der intensive Einsatz geographischer Informationssysteme und die Erfassung spektraler Informationen erschließen völlig neue flächenhaft interpretierbare Daten und Sichtweisen. Aufgrund dieser Ausrichtung werden hier auch vermehrt Wahlpflichtmodule mit mathematischen Inhalten in Kooperation mit der Mathematik (FB IV) in den Bereichen Numerik, Statistik und Modellierung angeboten. Auch das Centre de Recherche Public Gabriel Lippmann (Luxemburg) ist beteiligt.

Studienverlaufsplan Environmental Remote Sensing and Modelling

EAM 3: Environmental Conservation and Restoration Management

Im Schwerpunkt ‚Environmental Conservation and Restoration Management' (EAM 3) werden vor allem Aspekte des Umwelt- und Naturschutzes im Zusammenhang mit Aufgaben des Umweltmanagements vertieft. Die Masterstudierenden sollen befähigt werden, konkrete Maßnahmen und Planungen zum Schutz der Umwelt und zur Sanierung von Schadensfällen entwickeln und bewerten zu können. Dies erfolgt durch Vermittlung von analytischem und prozessualem Fachwissen der Geowissenschaften in Kombination mit angewandten juristischen, wirtschaftlichen und planerischen Kenntnissen. Auf die geowissenschaftlichen Module im ersten Semester folgen Module zur Umweltökonomie, Umweltplanung, zum Umweltrecht sowie Natur- und Umweltschutz. Diese werden durch Module zur Abfallwirtschaft und Restauration bzw. Renaturierung von Standorten und Gewässern ergänzt und können durch Wahlpflichtmodule zu thematischen Schwerpunkten wie Stofftransport, Umweltanalytik und Umweltmonitoring, Umweltchemie, Klimawandel oder Standortkartierung und -nutzung ausgebaut werden. Das Wahlangebot wird durch die Universität Luxemburg mitgetragen.

Studienverlaufsplan Environmental Conservation and Restoration Management

Master's Program

Environmental Assessment and Management
Master of Science in Environmental Assessment and Management

Subjects involved:

Analytical & Envrionmental Chemistry
Soil Science
Remote Sensing
Geobotany
Geology
Hydrology
Cartography
Environmental Meteorolgy
Municipal Science
and Environmental Law of the Faculty of Law (Faculty V)

Objectives and Guiding Principles

The aim of the international and interdisciplinary Master's Program **Environmental Assessment and Management (EAM)** is to enable students to do independent research on the basis of a high competence of methods and system and various scientific perspectives. Therefore, it lays the foundation for an academic career at a high academic level and qualifies the students to process complex problems in the practice and promotes general job-related skills in the fields such as sustainability, climate change and flood protection. Graduates will thus be trained to be specialists and leaders in universities, research institutions, environmental and planning agencies, authorities and relevant sections in banks, insurance and industries. In principle, a doctoral program can be followed.

Master's Program Environmental Assessment and Management (EAM)

The Master's Program EAM will be offered as a core subject. Its profile combines the subject area of bio- and geosciences with the aspects of chemical environmental analysis, measurement technology, spatial data collection, -maintenance and –analysis, and puts this knowledge into a precautionary environmental planning and management. The program is divided into three key areas:

Environmental Monitoring and Pollution Assessment (EA 1),
Environmental Remote Sensing and Modeling (EAM 2)
Environmental Conservation and Restoration (EAM 3).

Each of these key areas is covered by four semesters, consisting of compulsory and optional modules. These are based on the specific competencies of the faculties and the cooperating faculties of the University of Trier (e.g. Law, Municipal Science). The first semester is designed to bring the students in the mandatory training for all the three key areas to a uniform level of knowledge. In the second and third semester in-depth modules follow which have key area-related curriculum. The courses are offered in English.

Contact Person for the Programs:

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http://www.uni-trier.de/?id=9279

University of Trier

University of Trier, founded in 1473 and disbanded in the Napoleonic era, was rebuilt in 1970 as a campus-based university. Besides Geography/Geosciences, Language Studies and Cultural Studies, Law, Economics and Social Sciences, its focus is also on Mathematics/Computer Science. With currently approximately 14,000 students, it belongs to the still easily-manageable German universities.

The campus, one of the most beautiful in Germany, is divided into two sections. On the Campus II, the Geographical and Geological Studies are housed with their own library, a cafeteria and dormitories directly fitted on the site.

Faculty VI

Regarding the number of students (winter semester 07/08: about 1400), the range of programs (7 geographical and 10 geo-scientific subjects with a total of 20 professors and over 50 employees) and differentiating degrees (11 programs), Faculty IV is one of the largest geographical/geo-scientific faculties in Germany. The high number of doctorates shows its special commitment to youth development.

City of Trier

As the oldest of city in Germany, City of Trier is located in the west of the federal State of Rhineland-Palatinat, the Moselle Valley between the Eifel and Hunsrück mountain-area. Not only did the Romans leave the Porta Nigra in Trier, but also many other architectural attractions. Due to its fascinating history and lively culture, the City of Trier is visited by people all over the world. And its proximity to Luxembourg, France and Belgium contributes significantly to the international flair of the city.

Inside the Flyer

EAM 1: Environmental Monitoring and Pollution Assessment

The key area, **Environmental Monitoring and Pollution Assessment** (EAM 1), deals with the scientific environmental monitoring and evaluation of disturbances caused by pollutants and climate change. Post-graduate students will be trained to master scientific tools to identify and evaluate environmental conditions. These include the methodological inventory of chemical environmental analysis, biological inventories and physical methods. Therefore, the methodological skills in Chemical Analysis, Meteorology, Remote Sensing, Statistics acquired in the undergraduate studies will be further deepened and applied in project studies so that the

multivariate spatial-temporal events of the environment can be adequately measured, documented and interpreted. These skills will be acquired through the to be completed compulsory modules in the first and second semester, which can then be supplemented by optional courses in some subjects such as Soil Science, Environmental Meteorology, Hydrology or Environmental Chemistry.

EAM 2: Environmental Remote Sensing and Modeling

The key area, **Environmental Remote Sensing and Modeling** (EAM 2), aims at remote sensing detection and identification of environmental data and environmental conditions. For this purpose, the physically and numerically based methods are needed to process satellite imagery so that information can be deduced. The focus of this key area is the derivation of the spatially-explicit environmental information per the development and application of numerical models. To verify the results, site measurements will be specifically targeted. The intensive use of geographic information system and acquisition of spectral information opens up completely new extensively interpretable data and viewpoints. Due to this alignment, more optional mathematical modules in the fields of numerics, statistics and modeling will be offered in cooperation with the Department of Mathematics (Faculty IV).

EAM 3: Environmental Conservation and Restoration Management

Environmental Conservation and Restoration Management (EAM 3) particularly focuses on deepening the idea of environmental protection and nature conservation and the role of environmental management. After compulsory modules of the first semester, there will be modules of Environmental Law, Environmental Economics, Environmental Planning and Nature-and Environment protection. These are supplemented by modules on Waste Management and Restoration, Restoration of Soils and Water and can be extended through the optional modules of thematic priorities such as Mass Transport, Analytical Chemistry, Climate Change and Nature Conservation Management.

Profile of the University of

University of Trier, Universitätsring 15, 54296 Trier

Motto	"Treveris ex urbe deus complet dona sophiae" (God completes the favors of wisdom from the city of Trier)
Foundation	1473 (until 1798)
New Foundation	October 15, 1970
Sponsorship	Federal State Government RLP (state-sponsored)
Location	Trier
Federal State	Rheinland-Pfalz
Country	Germany
President	Prof. Dr. Michel Jäckel
Number of Students	Approximately 14.600 (WS 2009/10)
Number of Employees	more than 1140 (2009)
Number of Professors	160 (2009)
Website	www.uni-trier.de

Faculties and Departments

University of Trier comprises six faculties with over 30 subjects and over 20 offers for postgraduate programs and training programs, additional certificates and foreign languages training:

1. Faculty I

Pedagogy (with Education Science)
Philosophy
Psychology (with Psychobiology)

2. Faculty II

English Literature and Linguistics
German Literature and Linguistics (with German as Second Foreign Language and Yiddish Studies)
Japanese Studies
Classic Philology
Computational Linguistics
Media Studies

Phonetics
Roman Studies
Slavic Studies
Sinology

3. Faculty III

Egyptology
History
Archeology
Art History
Papyrology
Politics — Prof. Heilmann
(BMBF-Project over 2 Million Euros on Industry Development of China)

4. Faculty IV

Business Administration
Ethnology
Computer Science/Information System
Mathematics
Sociology
Economics — Research Center for Regional- and Environmental Statistics
Prof. Dr. Ralf Münnich
Prof. Dr. Georg Müller-Fürstenberger
Prof. Dr. Joachim Hill

5. Faculty V

Law

6. Faculty VI

Geography/Earth Sciences — Prof. Dr. Joachim Hill*
Prof. Dr. Frank Thomas*
*) BMBF-Project on Sustainable Land Management Tarim/China

Organizationally, University of Trier is closely connected with Faculty of Theology of Trier.