Project Conference Erasmus + Jean Monnet

"Cooperation of Universities and Employers for Quality and Relevance of Education"

EMPLOYABILITY as a Teaching Target

Cooperation between Universities and Business World



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International Analytic Center of Saint-Petersburg State University of Economics Saint-Petersburg, Russia

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History

Universities were originally elite - just selected clientele



In Europe = monasteries exclusively education

Vocational training = training on the job

Universities = spiritual science and theology

History

Up to 18th century education only related to the past



University education was useless for economy

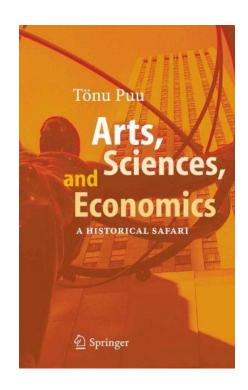
Up to 20th and 21st century:
many professors = no economic contact

History

Medicine or veterinary medicine: academic training at beginning 20th century

Technical education: 19th to 20th century

Economics and science = separate paths for centuries Change Process in second half of the 20th century (still ongoing)



Bologna Process of the European Union

Agreement signed in Bolgogna 1999 by 29 countries

European Union = rethinking process in tertiary education

- = Transnational university reform
- = Single European Higher Education Area
- = Harmonizing European courses and diplomas
- = Unification left to individual states
- = International students mobility



Change to the Anglo-American System

- A unified 3 stage system with
 - Bachelor,
 - Master and
 - at least three-year doctorate



Bologna Process: Expansion 2009

- expansion of university access
 (attention to underrepresented groups)
- target: graduate rate 20 percent by 2020
- lifelong learning,
- employability
- student-centered learning

Bologna Process: Employability Targets

Employability = increase employment opportunities of graduates

Employability = major objectives

The goal: "to create a European space for higher education employability and mobility of citizens and

to increase the international competitiveness of European higher education."



Employability: Impact of Bachelor

Bachelor's degree

= approach between university and business

Academic career = doctorate degree
Bachelor and Master = business oriented

2014 Germany:

- 50% a Bachelor's,
- 21% a master degree and only
- 6% doctorate.
- The rest were still "old" diplomas.



General Trends in the European Education System

Universities and Universities of Applied Sciences

University

= Research

= Research Education

= PhD

University of Applied Sciences

= business oriented

= employability

= no scientific career

= development



Special Universities

Bachelor study = existing educational institutions were transformed into higher education institutions

- health care (physiotherapy, training of midwives, etc),
- social work,
- military and police academies,
- teacher training institutions
- others

Special Universities - Problems

- * **SOCIAL CONFLICTS**: non-academics became academics f.e.: health care sector privilege of medical doctors
- quality problems among the teachers majority not academics
- * responsibility in different ministries
 - + advantage = professional competence
 - no uniform educational strategy and organization
 - parallel to ministry of higher education
 - f.e.: health care institution in Ministry of Health

Private Universities

• Mid-1990s: first private universities established in Europe

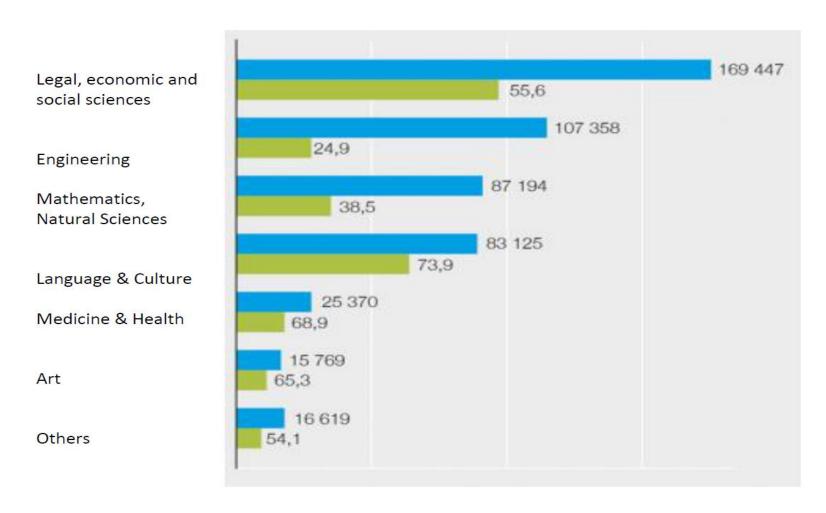
Financed by
 private persons or
 public institutions

- National states = set up regulations
 - Accreditation & Quality Agencies

Private Universities

- Financing sometimes from abroad: national conflicts
 f.e.: "Central European University"
 American billionaire George Soros in Budapest
- Large countries = influence in other countries with universities
 f.e. United States of America
- Often private universities offer only "cheap" subjects ("pencil studies")
 - = investment in infrastructure = low

Fresh students by subject group



Fresh students of the first year (first university semester) by subject group in the academic year 2014http://www.bpb.de/nachschlagen/datenreport-2016/225443/hochschulen

Employability Requirements

Restrictions on Admission



- Regulating the offer of studies
 - to prove the chances of future graduates in the labor market

 Reports show how many graduates received a job after graduation, how many are unemployed

Employability Requirements



Change for traditional institutions not easy

- More easy for new institutions or catchup-countries
 - = Universities of Applied Sciences
 - = Countries f.e. Oman, Kosovo



Lifelong Learning

- Strong link between business and university
 = need continuous further education
- New subject for universities



 Economic world needs a horizontal expansion of knowledge Business Career = horizontal expansion
 Research Career = vertical expansion

Lifelong Learning

Certificates need an expiration date

Some countries & professional groups have already introduced

f.e.: Medical doctors, lawers



Student Revolution in 1968

- 1968: major reform of the university system in Europe
 - due to student demonstrations
 - Access to universities = freely for all



- 2000: further trend reversal:
 - governments gave universities greater autonomy
 - less influence

Student Revolution in 1968

• growth of students (example Germany):



Academic year

students

1964-65

305,000

1994/95

1.872.000

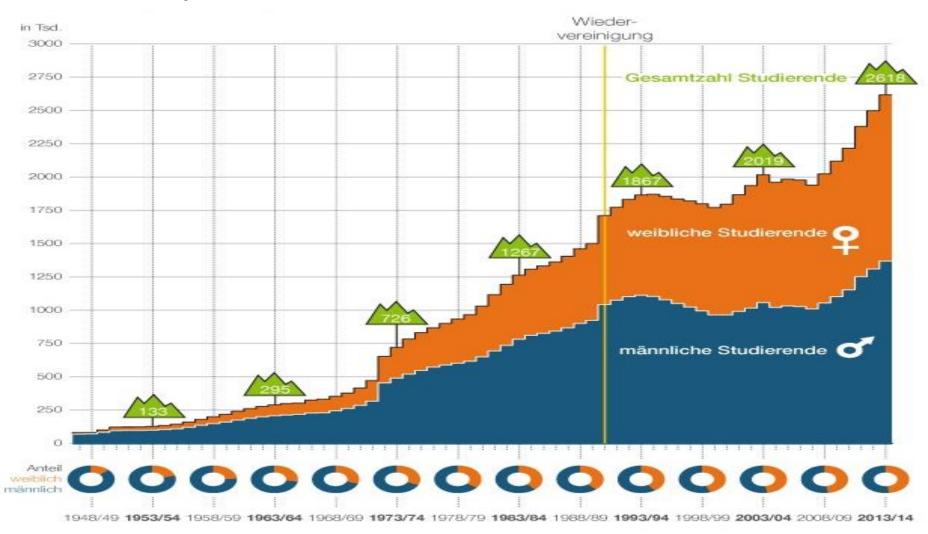
2003/04

more than 2 million

2014/15

2.7 million

Development of student numbers in Germany



Freedom of Study Choice

Some studies have increased enormously



Graduates have no chance to get a job

- Austria 3 x as journalism students as journalists in country
- Viennese veterinary university
 - = more students than veterinarians in the country

How students choose a study field

- 1. the place and its "youthful" infrastructure
- 2. the image of the university
- 3. the e-learning infrastructure and the Internet
- 4. the study subject



Negative Impact of Mobility

Bologna package launched mobility

National students came into minority:

- Music University in Vienna:
 - more Asians students as Europeans
 - Self-assessment tests did not help:
 - graduates from Chinese music colleges winning against fresh local students
- Veterinary university in Belgium
 - more French students than Belgians
- Germany = numerus clausus (an access restriction) for medical students
 no restriction in Austria = German students became majority
 - = Austria got threat of a doctor's disease
 - Country quotas not allowed by European Union Mobility in EU must be open to all students.

Access Restrictions



Access restrictions happen

- results of a recording test
- results of the completion of high school
- nationalities

Access Restrictions

- Recording examinations = focused on the subject
 - Teachers = social characteristics
 - Technical studies = mathematics, physics or chemistry
- China: Entrance tests extremely demanding. 1 or 2 years preparation courses

- High School certificates = less oriented towards the study field
- Example Oman



Output Orientation

Business – University Cooperation

= adoption of economic parameters in universities



- * One of these is output orientation
- * Move from input orientation to output orientation
- * Input-Orientation: Workers are paid for their attendance time and not for production.
- * Output-oriented payment = payment of performance

Output Orientation

Similar change in education system:

- * Students:
 - Old Teaching performance
 - = semester weeks & teaching units
 - = Measurement of hours
 - New: Measurement unit = ECTS European Transfer Points
- * Teachers:

Payment on agreed teaching subjects and projects (not on time of presence)





Future?

Calculation from Past to Future?

Do it personally!

How young people see the future of Education?

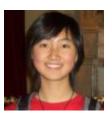
Definition by Students of the Masterprogram "Research and Innovation in Higher Education"

MARIHE (Erasmus Mundus) Master of Science - MSc (Joint Degree) Master of Administrative Sciences - M.Sc. Department fuer Weiterbildungsforschung und Bildungsmanagement, Danube University Krems

* 19 Students from 14 different countries

Bangladesh, China, Ethopia, Germany, Indonesia, Korea, Mexico, Moldavia, Russia, Serbia, Turkey, UK, US, Vietnam

* Selected out of 400 applications





























Universities in 10 years Role of Government

- * Government no longer favors only public universities = increasing of the competition
- * Government = more autonomy to public universities
- * Incentives by the governments to the academic fields that offer more business cooperation

Universities in 10 years Management (1)

* Professional managers for management positions (like rectors, deans, etc)

- * Professional managers are:
 - academic background or
 - outsiders
- * Private funds play a more active role

Universities in 10 years Programs

- * Number of programs will increase
- * More traditional subjects being removed
- * Increase in industry focused subjects
- * Departments social sciences will be closed down

Universities in 10 years: Internationalisation (2)

- * More mobility and more internationality
- * Universities focus on own strengths and complement their weak areas with exchanging with others
- * This inter-institutional approach = a cooperative knowhow hub

Universities in 10 years

* more

- Globalization
- Liberalization
- Networking

Competition in 3 regions: EU-USA-China

University education is becoming increasingly global and international Competition is emerging from 3 regions: America, Europe and the Far East.

