

# Do enterprises need Universities or do Universities need enterprises?

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#### Outline:

- I. Education and Universities
- II. Enterprises
- III. Interaction between Enterprises and Universities

Based on data from Germany (2014-2016), Europe and other countries





"There is only one thing in the long run more expensive than education: no education. "



Wladimir I. Uljanov (Lenin):

"Learn, learn and keep learn!"

Enterprises

Education

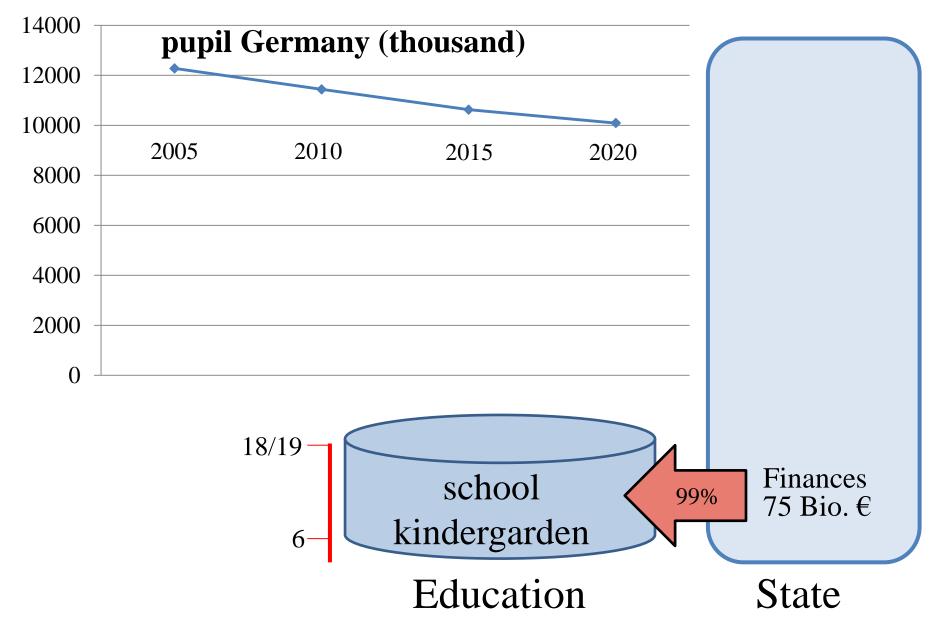
State



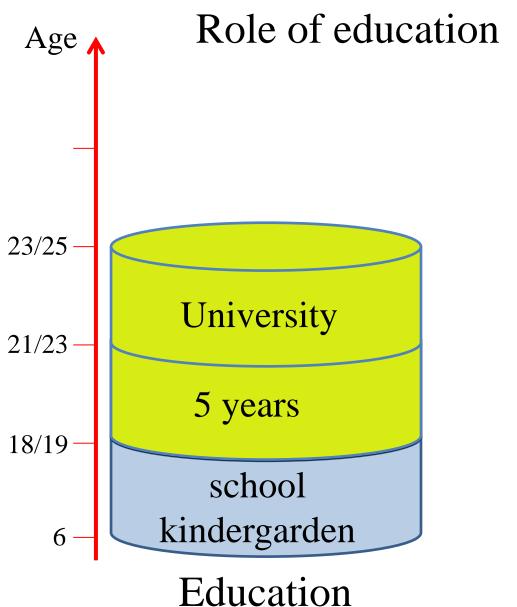
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I. Education and Universities









Enterprises

Education

State



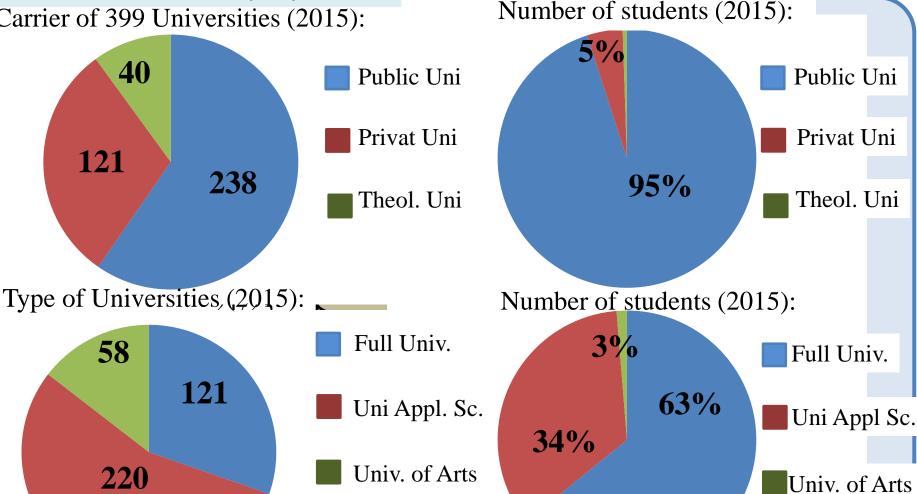
#### Humboldt's Model of autonomous Universities (>1809):

- enables students to become autonomous individuals
- enables students to become world citizens
  - environment: academic freedom
  - education in a broad sense
  - not merely to provide professional skills through schooling along a fixed path
  - build individual character by choosing their own way
  - teaching should be guided by current research
  - research independent from ideological, economic, political or religious influences
  - ability to use knowledge for practice
- St. Pe + personality development (soft skills)



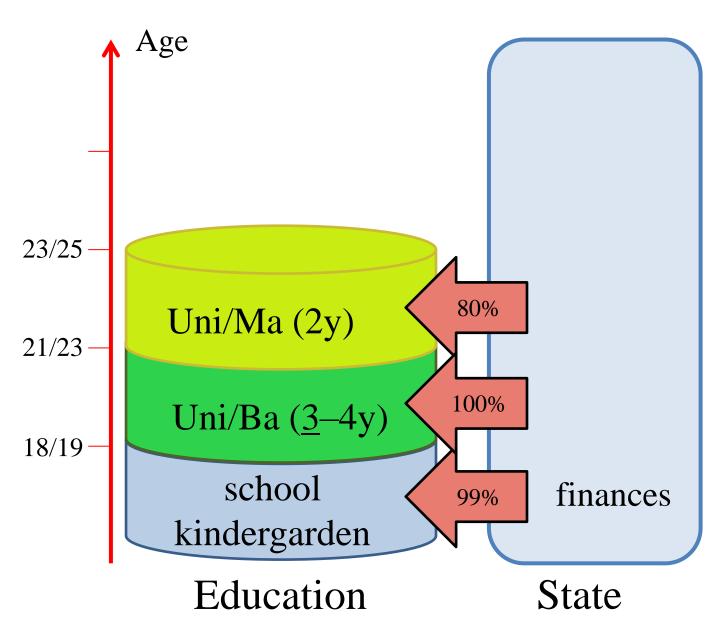
#### German University system:

Carrier of 399 Universities (2015):

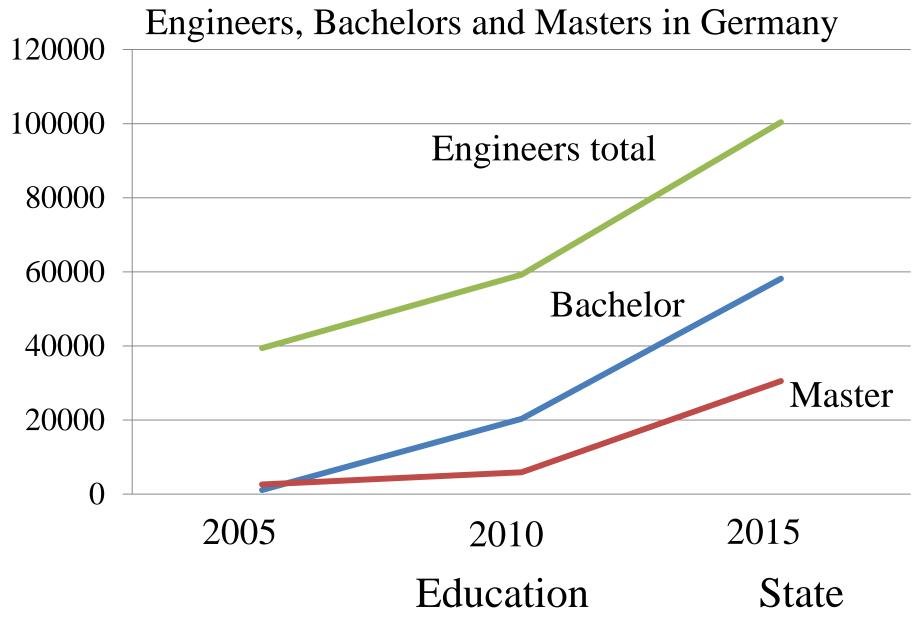


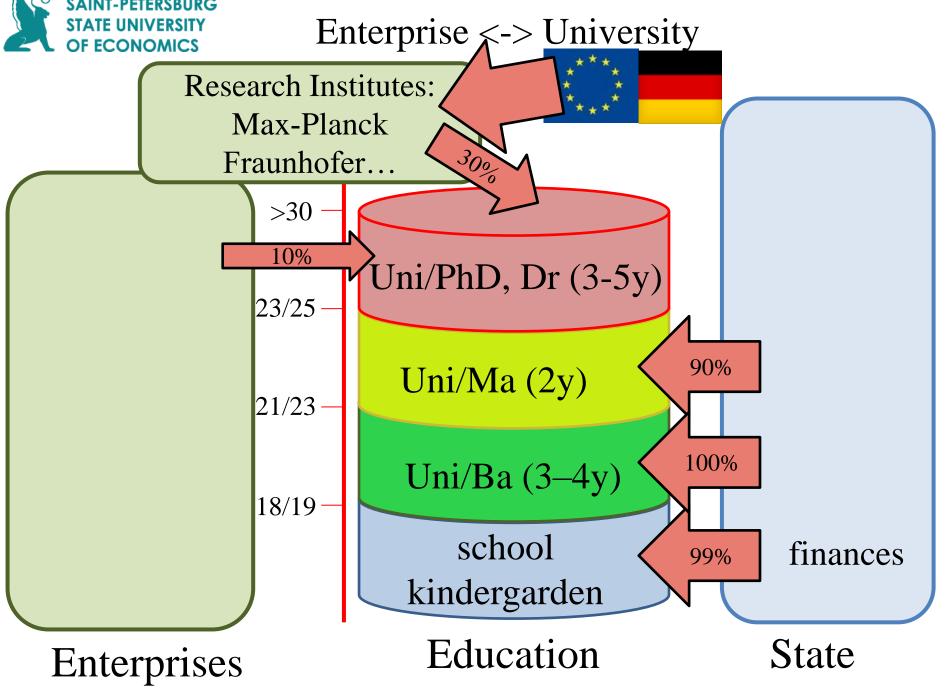
Source: www.hrk.de 2015





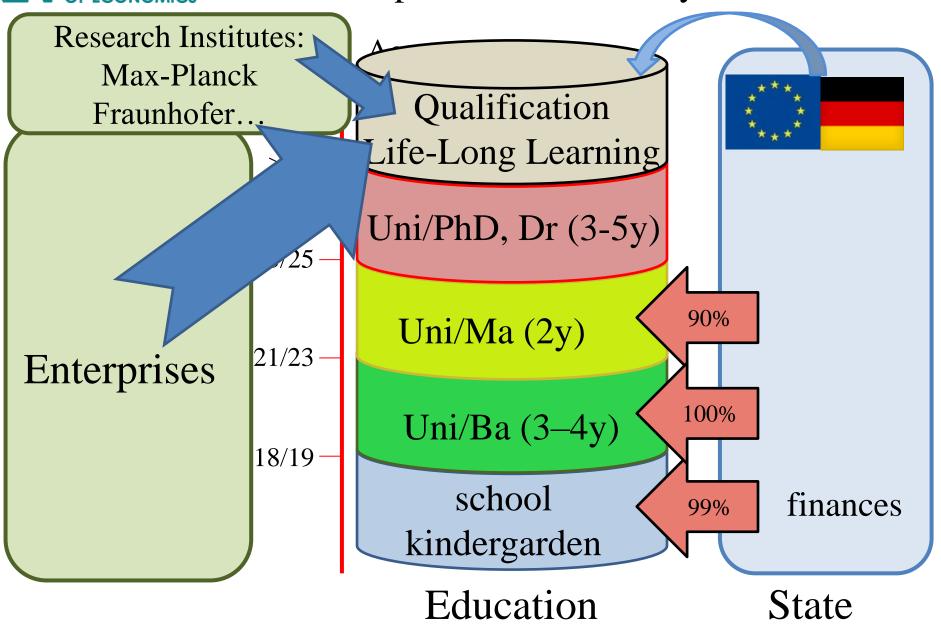






St. Petersburg, October 26, 2017





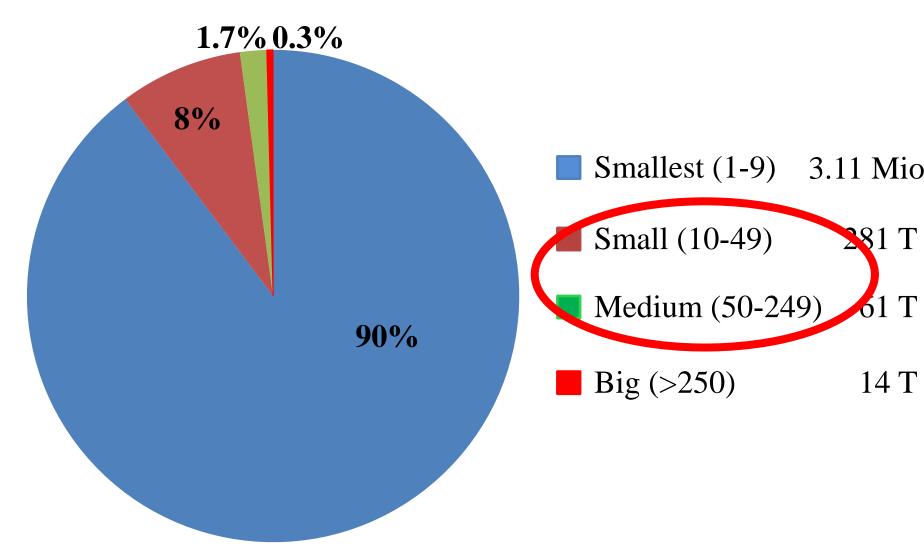


## Do enterprises need Universities or do Universities need enterprises?

### II. Enterprises

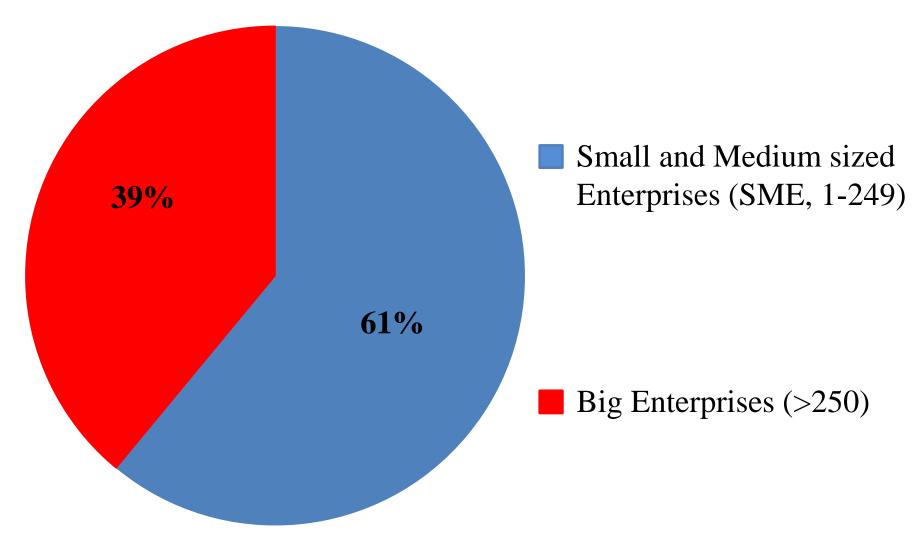


#### Enterprises in Germany (3.469.039 in 2016)



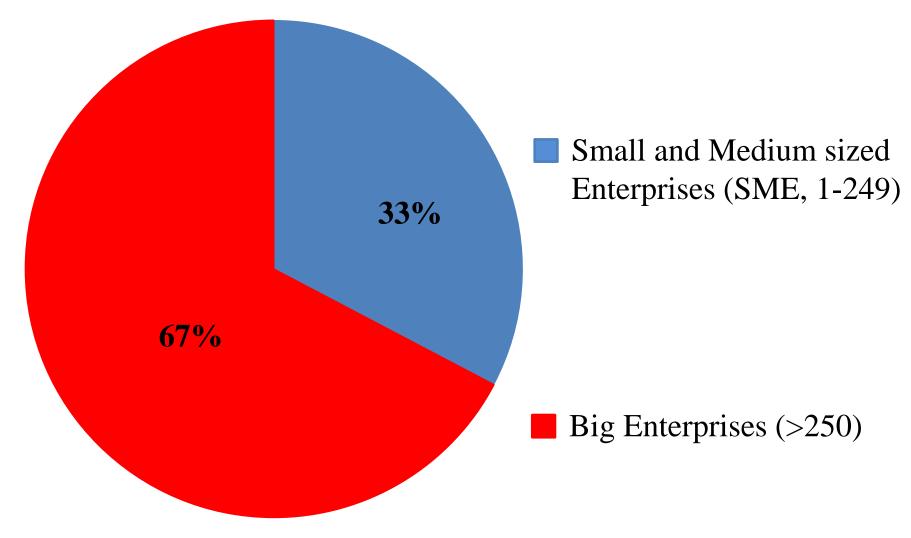


### Gross Domestic Product/GDP in Germany (2016)





#### Coworkers in Germany (2016)





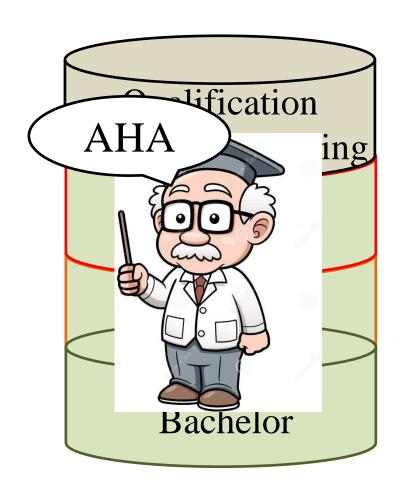
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## III. Interaction between Enterprises and Universities

some ideas and intentions







Enterprises

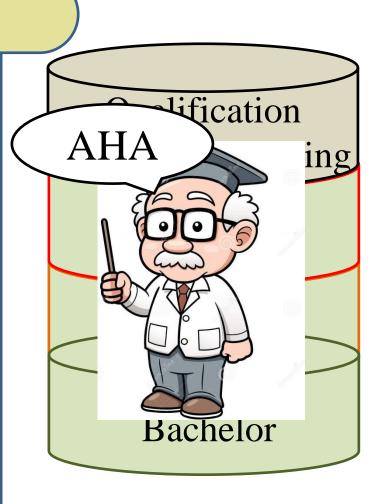
Education

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- students
- academic contacts
- blended learning
- no flexibility (teaching)
- low salary
- financial posibilities bad
- expensive equipment



Education



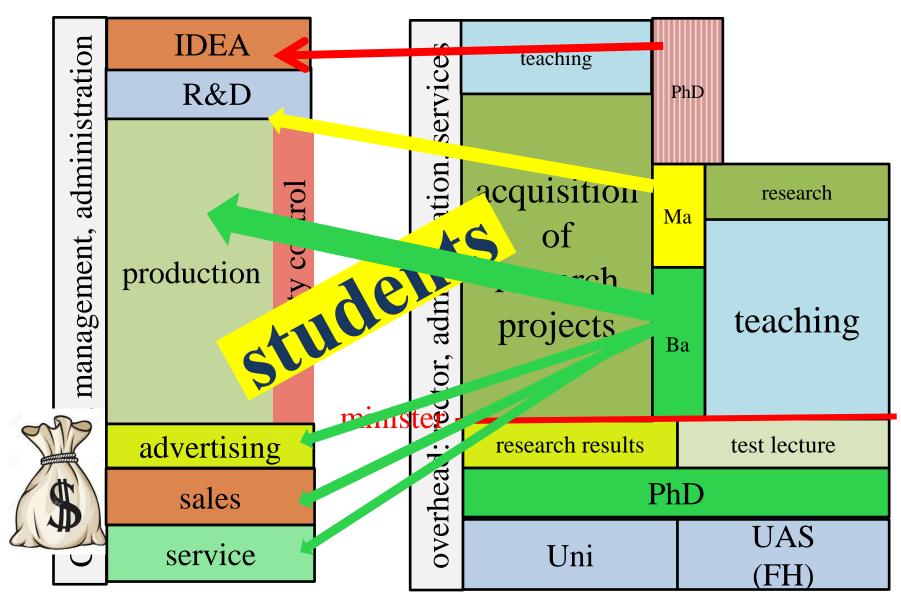




- "short ways"
- good financial posibilities
- production first
- no power for research
- no time for qualification
- no time for add. studies
- lack of qualified people

Enterprises

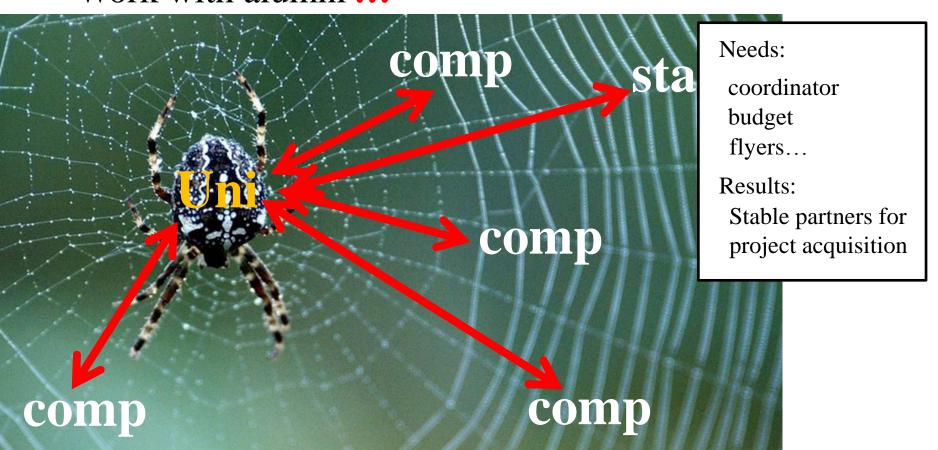






### students

- Enterprises get diploma holders for free ???
- Work with alumni !!!





### professors students

- Enterprises get diploma holders for free ???
- Work with alumni!!!
- On-line, on-job offers

Needs:

**Investment (electronic materials...)** 

Study plans (prof)

Study manager (staff)

Web site (IT engineer)

Technical help, language (staff)

Results:

Money

(international) Publicity

additional Income for profs.

Master 2 years

Bachelor 3 years

On-line On-job >2v

in the company blended learning

### professors students

- Enterprises get diploma holders for free ???
- Work with alumni!!!
- On-line, on-job offers
- Contacts to coworkers and leaders of enterprises

US model: Uni pays for 10 months, 2 months money from enterprise

Open mind of professors

Time!!

Needs:

Participation in university life and problems

Offers for participation in workshops, seminars etc.



## professors enterprises

- Enterprises get diploma holders for free ???
- Work with alumni!!!
- On-line, on-job offers
- Contacts to coworkers and leaders of enterprises
- Search for projects, practicals etc.
- Support/sponsoring of students, professors and universities



Enterprise <-> Univ Thank you!

Danke! rge field with many possibilities

Corrected title: Enterprises need Universities and Universities need Enterprises

### Спасибо!

Forcast:

Gracias!

**Mark Twain:** "It is hard to make predictions, especially about the future."

