



CLGE

Education of surveying engineers in Germany

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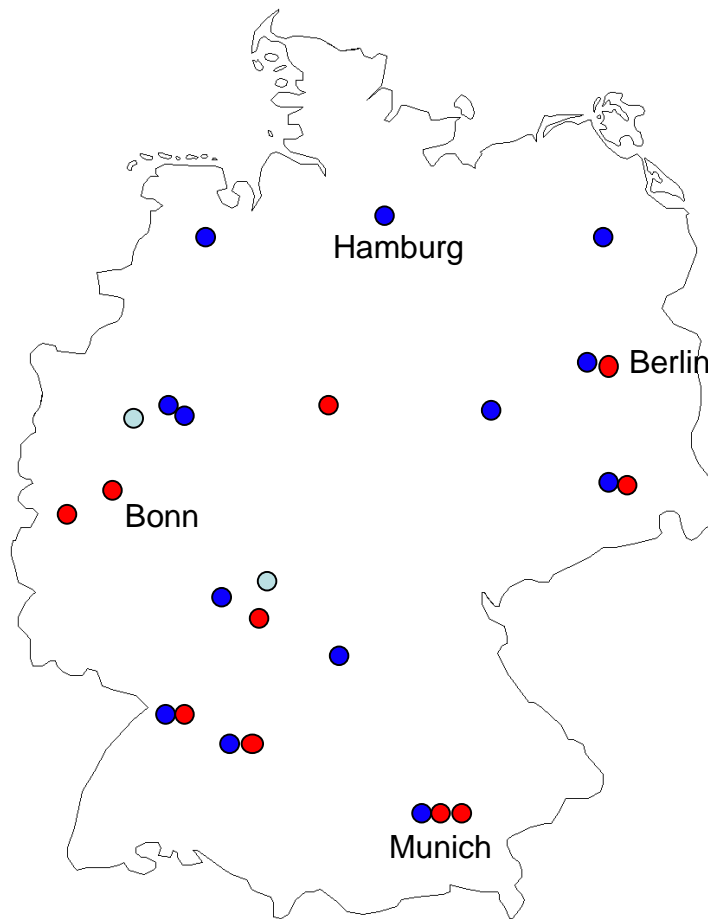
1.0 overview : statistics

In Germany

- there are working about 25,000 surveying engineers
- there are studying about 1,200 students at university
- there are studying about 3,500 students at technical college



1.0 overview : locations of institutes



- University
- Technical college
- Technical college (institutes in dissolution)



1.0 overview : organisation

- at university:
 - four terms ending with first graduation
 - five to six terms leading to final examination (diploma)
- at technical college:
 - three or four terms undergraduate studies
 - four or five terms graduate studies
 - mostly one or two terms in business/practice
 - different certificates possible



2. Education at university

Undergraduate studies:

- Mathematics
- Physics
- Geology
- Coordinates and reference systems
- Differential geometry
- Geodesy and geodynamics
- Geometric data processing
- Adjustment theory
- Law
- Economy



2. Education at university

Graduate studies:

- Higher geodesy
- Cartography
- Remote sensing
- Surveying
- Official surveying and real estate regulation
- Property valuation
- Ground organisation



2. Education at university

Extended subjects (e.g.):

- Gravity field modelling
- Analytic orbit computation
- Real estate / property valuation II
- ...

Others (e.g.):

- Gravimetry and earth tides
- Potential theory and special functions
- Stochastic processes
- ...



3. Education at technical college

Undergraduate studies:

- Mathematics
- Physics
- Surveying
- GIS
- CAD
- Law
- Planning



3. Education at technical college

Graduate studies:

- Surveying
- Cartography
- Remote sensing
- Technical surveying
- Real estate regulation
- Statistics



4. Fields of activity

Engineers from university:

- Settle down as public appointed surveyor (after another two years of education, state examination and one year of practice)
- Lead a land registry office or a division (after another two years of education and state examination)
- Work in other parts of government
- Stay at university
- ...



4. Fields of activity

Engineers from technical colleges:

- Settle down as public appointed surveyor (after six years of practice in the field of real estate)
- Work at land registry offices in the middle management (after another year of education and examination), lead a division
- Work in other parts of government (middle management)
- ...



5. Final remarks

- Deregulation by the government / of the government
- Quantity of students too high?
- Technological influences
- Bachelor and master



Thank you very much for your attention !

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