Joining Forces in Education: enabling competences and skills for the global village

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Everything happens somewhere.
Maps empowers humans on knowing about „where“.
Joining Forces for an International MSc Cartography of Excellence
During the first semester at Technische Universität München, students are provided with the foundations of cartography and geovisualization.

Students are taught in mobile and 3D cartography during the third semester at TU Dresden. The Alpine Cartography Field School is part of this semester.

In the second semester at Technische Universität Wien, students get knowledge in multimedia cartography, especially web mapping, mobile internet and location-based services.

Online modules prepared by the University of Twente (ITC) are incorporated into the curriculum during the first and third semester. Additionally, ITC is responsible for the organization of the fourth semester.
2008 WG of 3 partners - TUM, TUW and TUD

2011 First intake

2014 UT joined as 4th partner

2014 EMJMD

2018 EMJMD
2011: 14 students from 10 countries
2012: 21 students from 12 countries
2013: 11 students from 9 countries
2014: 15 students from 11 countries
2015: 21 students from 13 countries
2016: 20 students from 16 countries
2017: 24 students from 20 countries
2018: 30 students from 19 countries
2019: 25 students from 18 countries
2020: 29 students from 20 countries
2021: 27 students from 21 countries
2022: 25 students from 16 countries
International Teaching Staff
Associated Partners
Thinking, discussing, doing maps
Number of students and countries of origin from 2011-2020
Background of incoming students
20% currently work in public administration

40% currently work in private business

15% currently work in a research institution or in a university

Employment after Graduation
Education is seeking to train skills, competences and knowledge
Education on an evolving science

Enable skills and competences on becoming an
• Engineer
• Data Scientist
• Cognitive Scientist
• Designer
Triangle of Competences

Data  Design  User
Main elements of innovation

- Activation
- Problem-based Learning
Main elements of innovation

• Activation
Main elements of innovation

• Activation
Main elements of innovation

• Project based vs. Problem based Learning
Main elements of innovation

- Problem based Learning
MAPPING FOR A SUSTAINABLE WORLD

https://digitallibrary.un.org/record/3898826?ln=en