





27th March 2019

TU Dresden

Danny Klotzsche School of Civil and Environmental Engineering Department of Internationalization



TU Dresden Campus today







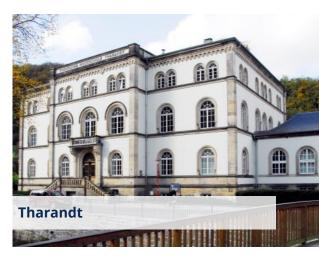
TU Dresden Campus - Tradition







Görges Building (Altana-Gallery)







TU Dresden Campus - Modernity













History of TU Dresden

- 1828 Founded as a vocational training institution
- 1890 Renamed "Royal Saxon Technical College" (TH)
- 1945 Largely destroyed during World War 2
- 1961 Status of a University of Technology (TU)
- 1990 New faculties, comprehensive range of disciplines
- 2012 Awarded the status "University of Excellence"







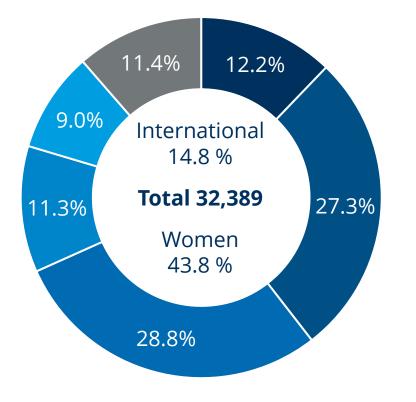
Facts and Figures

- One of the largest universities in Germany.
- Students: 32,389
 International students: 4,786 from 135 countries
- Study programmes: 127
- Employees: approx. 8,500 of which professors: approx. 550
- Overall budget: 557 million EUR of which third-party funding: 269 million EUR





Students by Scientific Disciplines



- Sciences
- Civil and Environmental Engineering
- Engineering Sciences
- Humanities and Social Siences
- Medicine
- Teacher Training

Status: Nov. 2018





Research Priority Areas of TU Dresden

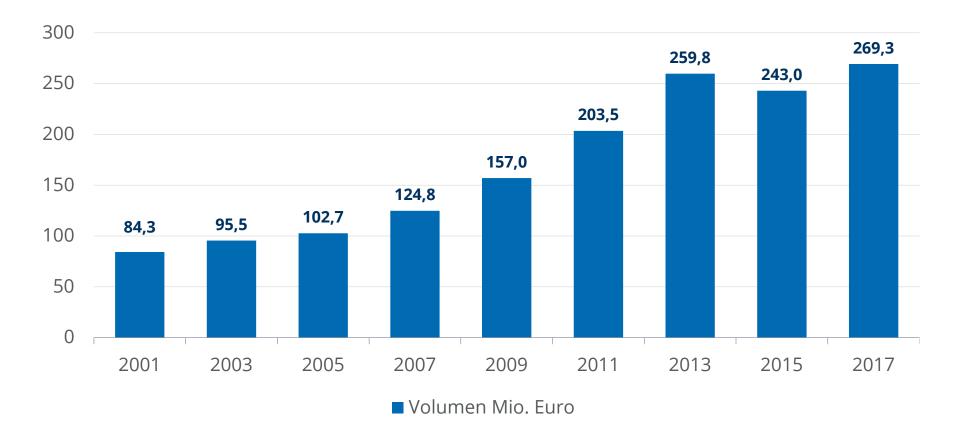
- Health Sciences | Biomedicine | Bioengineering
- Information Technology | Microelectronics
- Materials Science and Engineering
- Energy, Mobility and Environment
- Culture and Societal Change







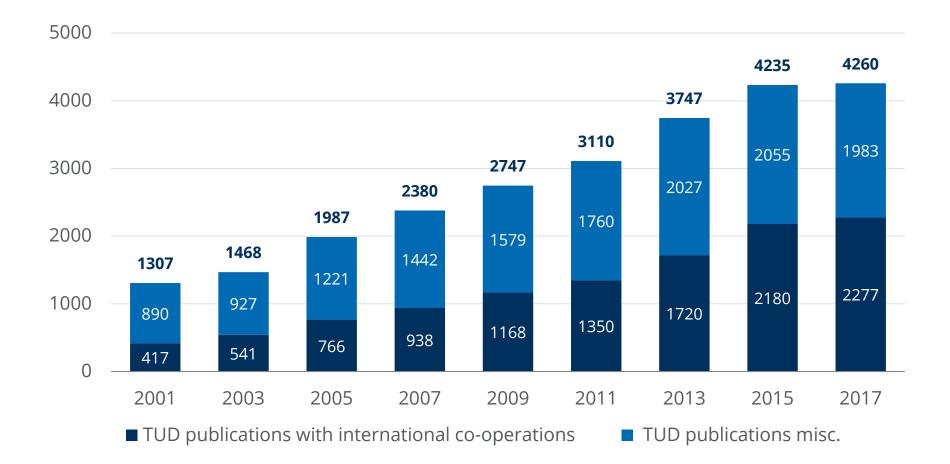
Third-Party Funding







Number of Publications (Source: Web of Science)







Upward Trend – TU Dresden in Rankings







2nd Phase of the German Excellence Initiative

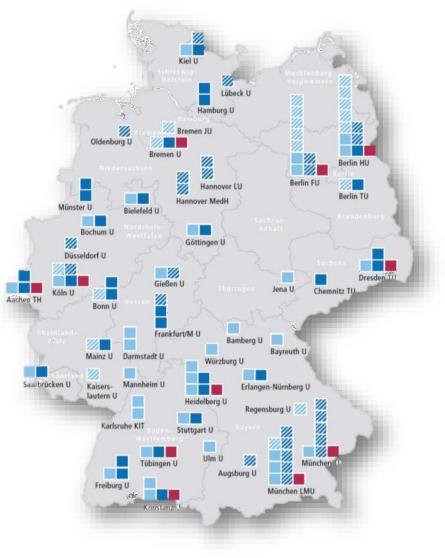
Supported projects:

2012 - 2017 (2.4 billion EUR)

45 Graduate Schools

- 43 Clusters of Excellence
- 11 Institutional Strategies

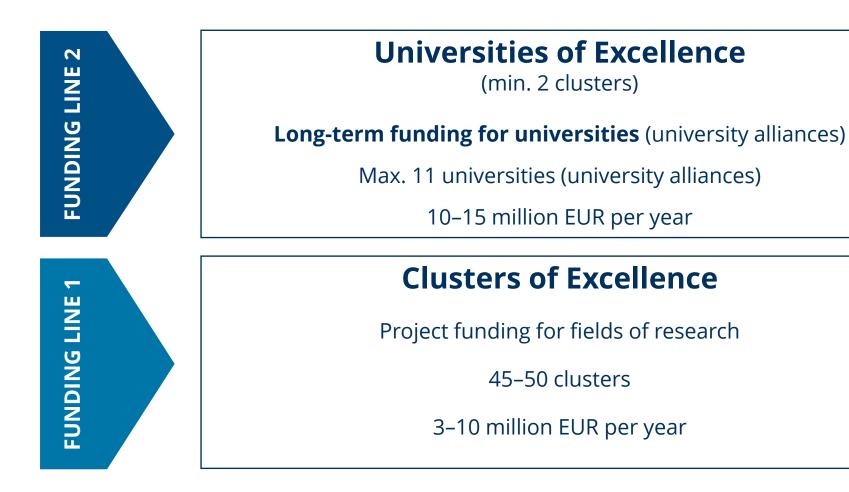
(Co-Applicant)







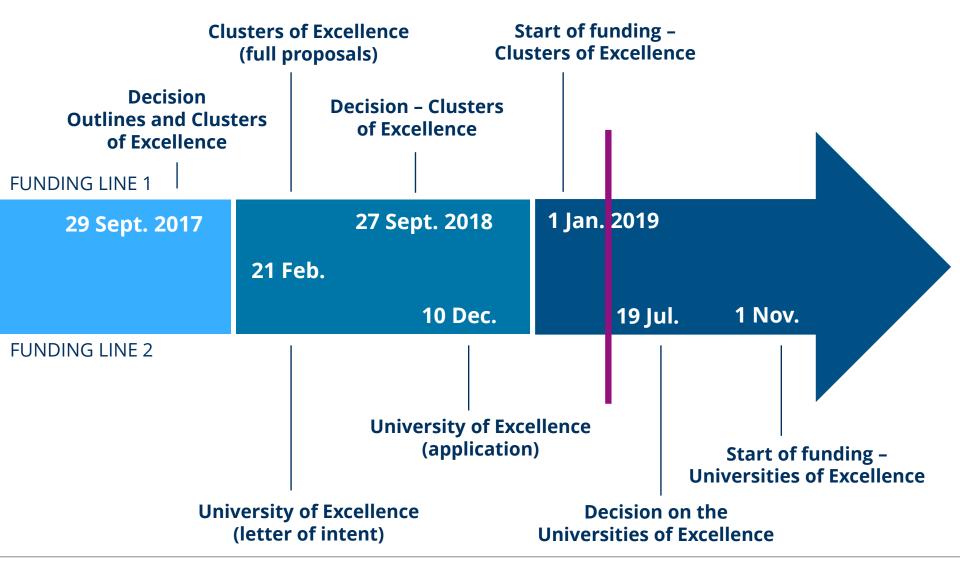
Excellence Strategy 2019 – 2026 ff.







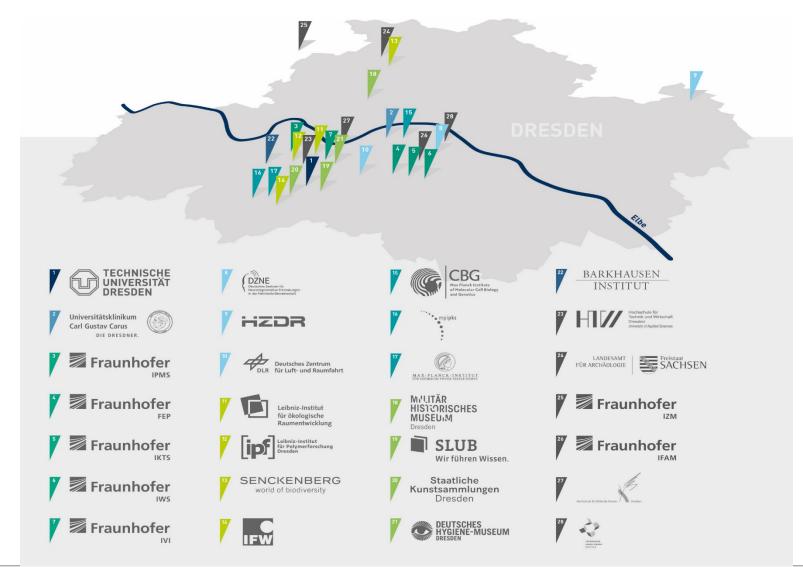
Excellence Strategy Milestones







DRESDEN-concept - A Unique Alliance







DRESDEN-concept

Strategic research alliance

 TU Dresden with 27 non-university research institutes (Max-Planck, Fraunhofer, Helmholtz, Leibniz etc.) in the Dresden area

Synergies in research, education and infrastructure:

- Coordination of common research interests
- Joint recruitment of excellent scientists
- Shared resources / One campus model

Promoting science in Dresden and increasing its international visibility!







TU Dresden - Structures: 5 Schools |18 Faculties

Science	Civil and Environmental Engineering	Engineering Sciences	Humanities and Social Sciences	Medicine
Biology	Architecture	Electrical and Computer Engineering	Education	Medicine
Chemistry	Civil Engineering		Law	
Mathematics	Environmental	Computer	Linguistics,	
Physics	Sciences	Science	Literature and Cultural Studies	
Psychology	Transportation and Traffic Science Business and Economics	Mechanical Engineering	Arts, Humanities and Social Science	





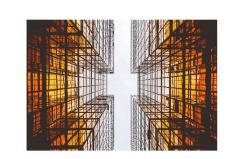
School of Civil and Environmental Engineering





Faculties

School of Civil and Environmental Engineering



Architecture



Civil Engineering



Environmental Sciences



Business and Economics



Transport and Traffic Sciences "Friedrich List"





Structure – School administration / Board



Prof. Dr.-Ing. Christian Lippold (speaker) Director of the Institute of Transport Planning and Road Traffic, Professor of Road Planning and Road Design



Prof. Dr. Lars Bernard Dean of the Faculty of Environmental Sciences, Chair of Geosciences



Prof. Dipl.-Ing. Jörg Joppien Dean of the Faculty of Architecture, Chair of Foundations of Architectural Design



Prof. Dr.-Ing. Günther Prokop Dean of the Faculty of Transportation and Traffic Sciences "Friedrich List" und Chair of Automobile Engineering



Prof. Dr.-Ing. Jürgen Stamm, Dean of the Faculty of Civil Engineering, Director of the Institute of Hydraulic Engineering and Technical Hydromechanics

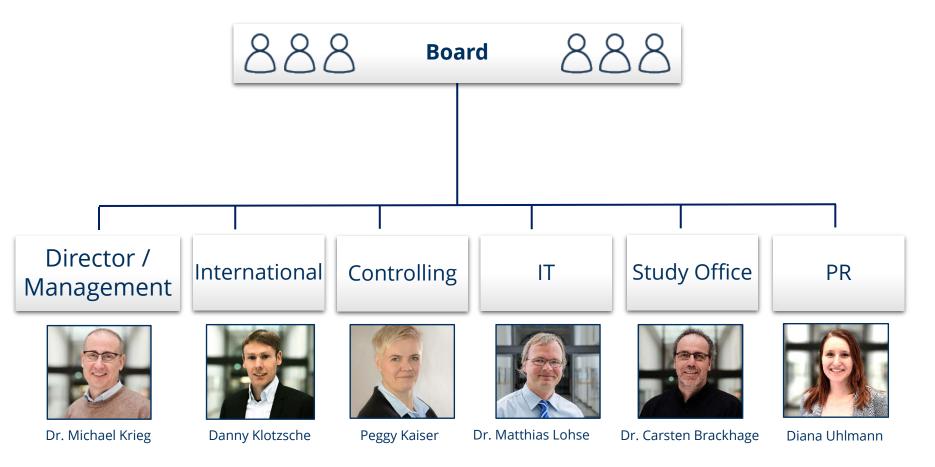


Prof. Dr. rer. pol. Michael Schefczyk Dean of the Faculty of Business and Economics and Professor of Entrepreneurship and Innovation





Structure – School management







Facts and Figures

8,624 students

- ➢ Fac. of Architecture: 1,067
- ➢ Fac. of Civil Engineering: 1,724
- ➢ Fac. of Environmental Sciences: 2,162
- ➢ Fac. of Business and Economics: 2,518
- Fac. of Transport and Traffic Sciences "Friedrich List": 1,153
- 33 study programmes
- 1,465 employees, approx. 140 professors
- **Total budget** approx. 78 million Euros
- External funding of 44.51 million Euros
 Volume by research areas







Research Priority Areas

- Materials Science and Engineering
 - Smart Materials and Structures
- Energy, Mobility and Environment
 - > Holistic approach to the fields of research
 - Global challenges, such as climate change, sustainable energy supply and networked mobility systems
 - Research is conducted on the technical and social aspects
 - Fields of Research are e.g.
 Water research,
 Automated and networked mobility,
 Demographic change and its impact on society,
 Energy, including energy-efficient construction,
 Land use and environmental management





International

➢ UNEP/UNESCO/BMU → CIPSEM

Centre for international postgraduate studies of environmental management for developing and emerging countries (> 40 years)

- International master courses taught in English, e.g.
 Tropical Forestry, Cartography, Hydro Science and Engineering,
 ACCESS Advances Computational and Civil Engineering Structural Studies
- Double diploma programmes in Architecture (ENSA Strasbourg) and Civil Engineering (ESTP Paris, INSA Strasbourg, Università degli Studi di Trento)
- Erasmus Mundus Programmes (Master and PhD): Flood Risk Management, Sustainable Tropical Forestry, Forest and Nature for Society





International

- Intensive exchange of staff and students
- High share of foreign PhD candidates
- Intensive Cooperation with UN University Institute for Integrated Management of Material Fluxes and Resources in Dresden (e. g. joint PhD programme)
- Internal funding programmes
- Research projects on all continents
- International conferences









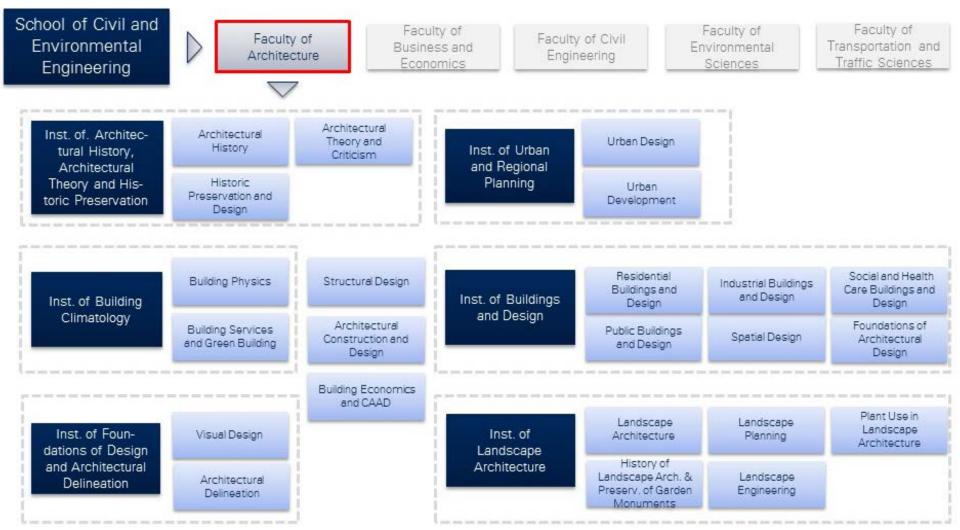


Thank you!

Danny Klotzsche School of Civil and Environmental Engineering Department of Internationalization



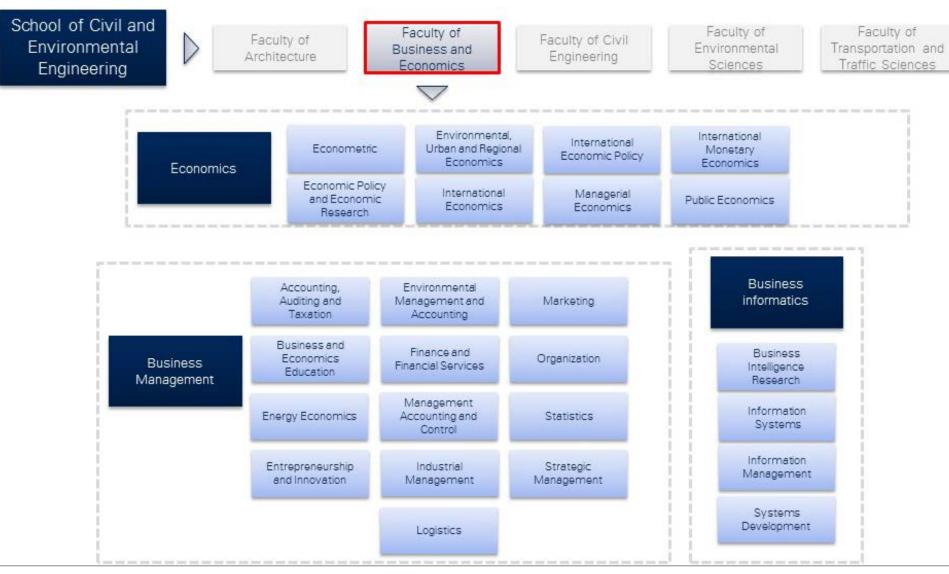
Faculty of Architecture







Faculty of Business and Economics







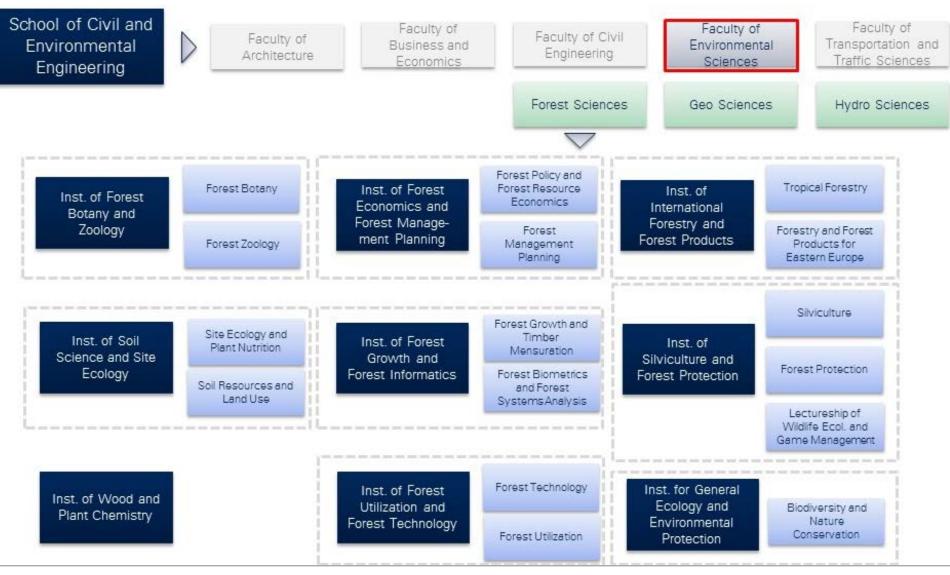


Faculty of Civil Engineering





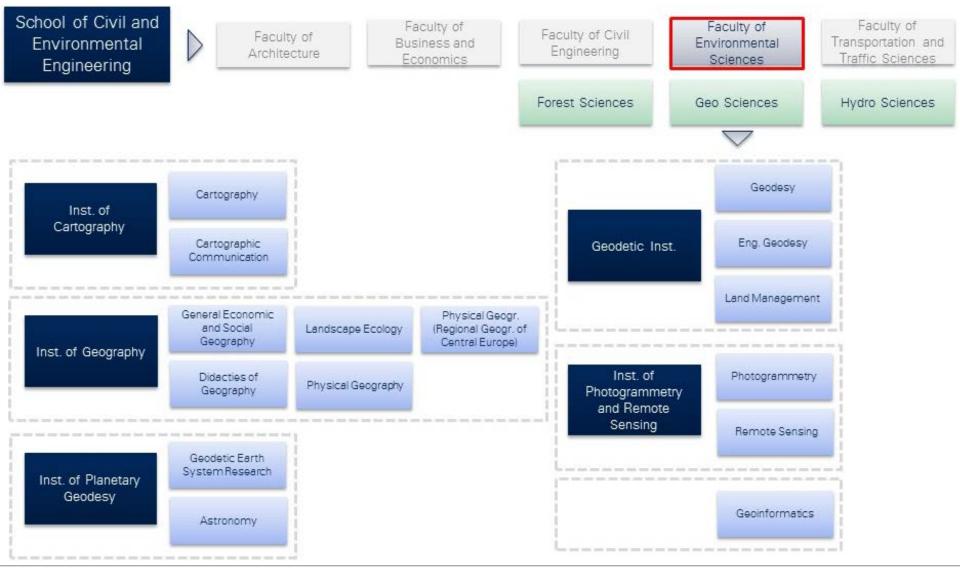
Faculty of Environmental Sciences







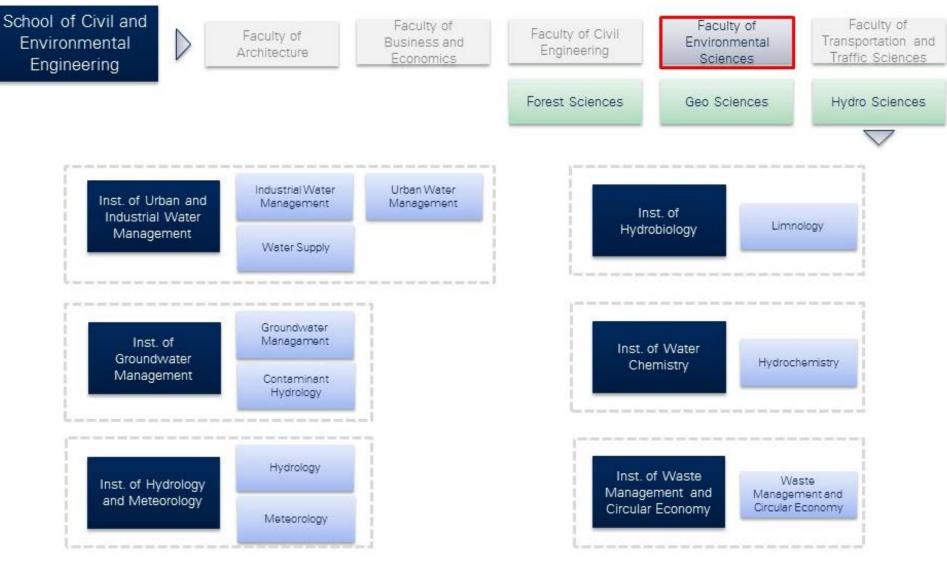
Faculty of Environmental Sciences







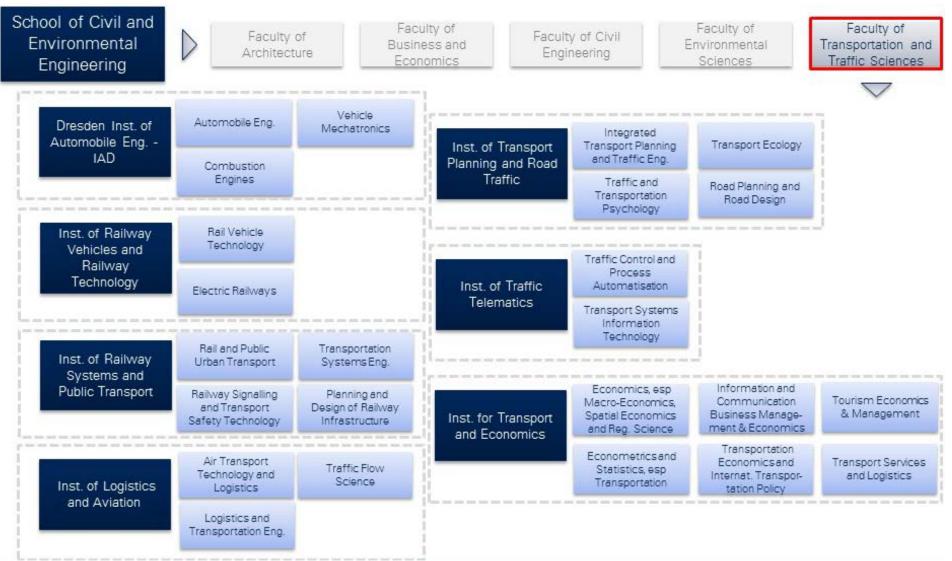
Faculty of Environmental Sciences







Faculty of Transportation and Traffic Sciences







Fields of work of the International Office of the School

- Structuring, monitoring and governance of the process of internationalisation
- Partnerships / International Affairs
- Third-party funding / promotion and support of international activities
- Strategic development and quality management
- Reporting



