



Engineering Capacity The German perspective

- Importance of engineering capacity
- Facilitation of engineering capacity
- Recognition of Engineering education
- Approaches to engineering education standards
- Activities of engineering associations to support transparency and recognition



Deutscher Verband
Technisch-Wissenschaftlicher
Vereine

Why is engineering capacity
important?





Deutscher Verband
Technisch-Wissenschaftlicher
Vereine

What do we do about
engineering capacity?

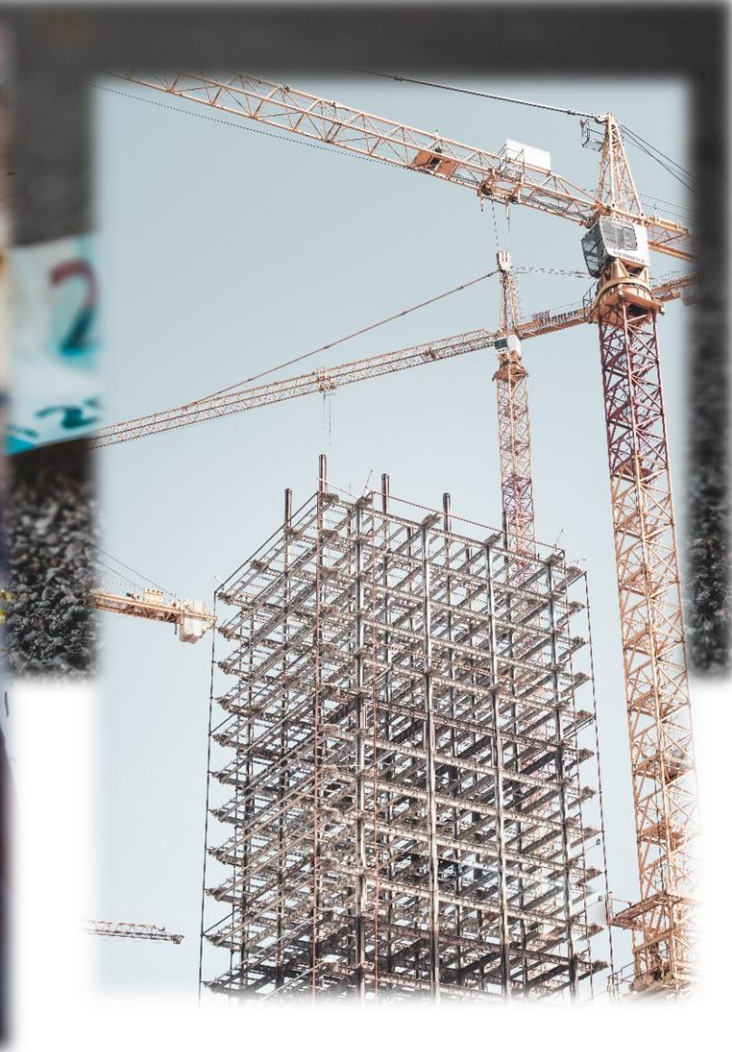


Deutscher Verband
Technisch-Wissenschaftlicher
Vereine



DVT

Deutscher Verband
Technisch-Wissenschaftlicher
Vereine





Deutscher Verband
Technisch-Wissenschaftlicher
Vereine

What approaches are there to
support mutual recognition?



Deutscher Verband
Technisch-Wissenschaftlicher
Vereine

- Lisbon Convention April 1997/April 1999
- Equivalency agreements on the recognition of academic qualifications and the transfer of periods of study and examination outcomes
- Central Office for Foreign Education – ZAB
 - Statement of Comparability for Foreign Higher Education Qualifications
 - Expert Assessment about foreign educational credentials and their comparability to German qualifications



Deutscher Verband
Technisch-Wissenschaftlicher
Vereine

What approaches are there to
create standards in
(engineering) education?



Deutscher Verband
Technisch-Wissenschaftlicher
Vereine



European
Qualifications
Framework

DQR : Deutscher
Qualifikationsrahmen
für lebenslanges Lernen



ASIIN

European Accreditation of Engineering Programmes
EUR-ACE®

The EUR-ACE® System



Deutscher Verband
Technisch-Wissenschaftlicher
Vereine



- Knowledge and understanding
- Engineering Analysis
- Engineering Design
- Investigations
- Engineering Practice
- Making Judgements
- Communication and Team-working
- Lifelong Learning



Deutscher Verband
Technisch-Wissenschaftlicher
Vereine

How do engineering
associations facilitate
transparency and recognition?



Deutscher Verband
Technisch-Wissenschaftlicher
Vereine

EUROPEAN ENGINEERING EDUCATION DATABASE

engineering card
BERUFS AUSWEIS FÜR INGENIEURE

GUIDE TO THE FEANI EUR ING REGISTER

(“EUR ING GUIDE”)

Conclusions

- Engineering capacity building facilitates economic growth/competitiveness
- Recognition enhances the value of an engineering education system
- Recognition helps to raise the reputation of a business location
- Education standards are an important instrument to support mutual recognition
- Education standards provide reliability and prevent fragmentation
- Engineering associations play a central role in facilitating the creation of engineering standards



Deutscher Verband
Technisch-Wissenschaftlicher
Vereine

Thank you for your
attention!

Dr. Thomas Kiefer
Secretary General
German Federation of Technical-Scientific Associations (DVT)
gf@dvt-net.de