



German Cooperation Models between Universities and Industry

Multi-Stakeholder Partnerships for Sustainable Development

**Cooperative and Integrative Applied Research and Learning –
A model for Development Cooperation**



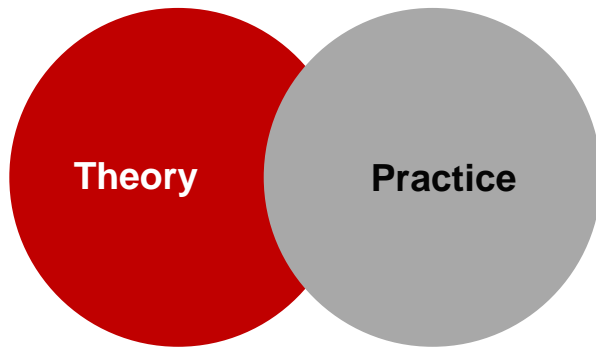


German Cooperation Models between Universities and Industry

Institutional Model: University of Applied Sciences

Practice-Oriented Study Programmes

- Facilitated synergies between TVET and HE
- Mandatory practical period or internship
- Academic staff with professional experiences from industry
- High proportion of practice elements in study programmes
- Awarding academic degree (Bachelor/Master)
- Good employability of graduates
- 80% of dual study programmes in Germany are implemented by Universities of Applied Sciences

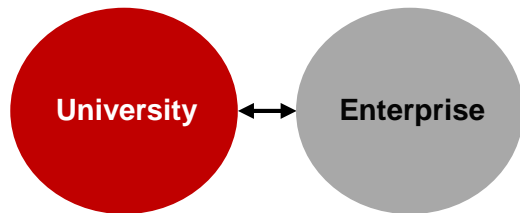




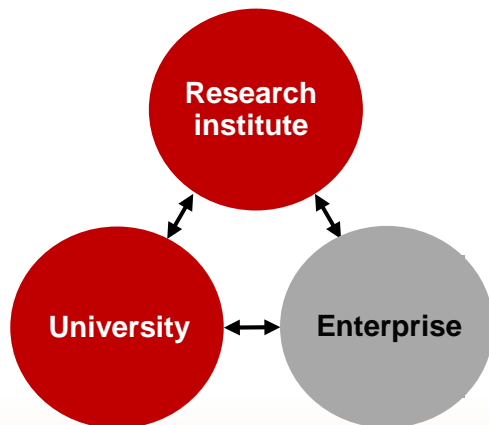
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Model: Systematic cooperation mechanisms between University and Enterprise

Cooperation in Teaching and Research



or



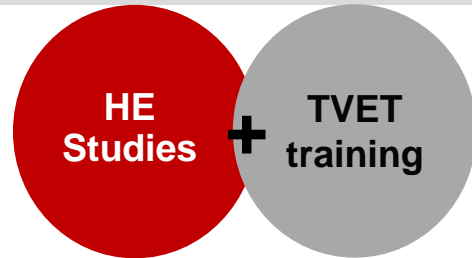
- PhD programs in collaboration with / within enterprises
- Honorary professorship from industry
- Joint development of practise-oriented study programmes
- Mechanisms for Technology transfer and Innovation
- Integration of scientific research into practice, exchange of knowledge, incl. entrepreneurship education
- Integrating applied research into teaching in study programs
- Provision of internships for students, Master thesis in collaboration with enterprises
- Research agenda from practitioners' perspective
- Trilateral research cooperation (research institute, university, company) (e.g. Fraunhofer Model)



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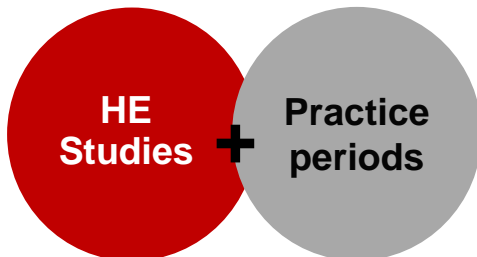
Model: Dual Studies for undergraduate students

TVET integrating Bachelor Programme



- Structural and institutional interlocking of academic and TVET education
- Balanced share of theory and practice (50/50)
- Provision of double degree: Bachelor + TVET degree
- Potential model for developing countries? (Pre-requisite: experience with the dual TVET system)

Practice integrating Bachelor Programme



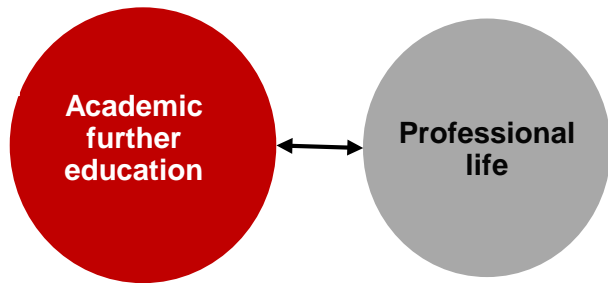
- Structural and institutional interlocking of academic education and in-company experiences
- High proportion of practical periods in companies
- Practical periods integral part of study programmes
- Precondition: Access to private sector and high commitment from participating enterprises, support by professional and employer associations helpful



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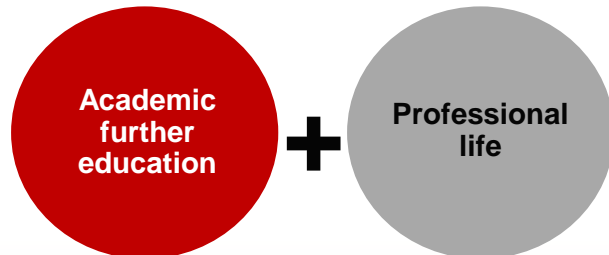
Model: Dual Master Programmes for Professionals

Fellowship Model



- Institutional linkage of university and host company in programme design and implementation
- Close relation of study programme and specific work context
- Full or part time – including on the job learning
- Interesting model for young professionals

Professional Education



- Offered by universities mostly to experienced professionals
- Professionals study on top of their work and may also integrate their practical experience in shaping their studies/ the programme
- Enterprises can contribute financially