

RUHR-UNIVERSITÄT BOCHUM

# RUHR-UNIVERSITÄT

CREATING KNOWLEDGE NETWORKS

RUB









# COLLABORATIVE TRANSFER-ORIENTED TEACHING

- Traditional: degree-integrated internships in agencies, firms and companies
- Characteristics:
  - Content determined by the employer, no coordination with the university
  - Often no link between theory and practice
  - Highly diverse, not necessarily an integrated specialisation or application
- Goal: improved didactic and content integration
- What is important?
  - **Promote motivation** of students
  - **Impart knowledge** and **information** (“know-how”)
  - **Promote practical orientation** and **creativity** (“space for ideas”)



# EXAMPLE 1: PROJECTS IN SCIENCE AND PRACTICE

- Module with 10 CP in the bachelor programme “Management and Economics”
- Objective: Linking theory with practice and acquisition of project management competence
- Overarching topics, e.g. “Industry 4.0 and Trade 4.0”, “Energy and Innovation”, “Digitisation and Change Management”
- Practical partners describe the current entrepreneurial challenge, which the students then work on as a project and subsequently present a proposal for a solution
- Project partners and topics were e.g.
  - Stadtwerke Bochum (municipal utilities): “Indicators for digitisation progress in the energy industry”
  - Bochum Office of Economic Development: “The significance of IT security for entrepreneurs and companies”
  - Gebr. Eickhoff Maschinenfabrik u. Eisengießerei (mechanical engineering): Logistics 4.0 - Scanner systems for incoming goods



## EXAMPLE 2: MASTER PROGRAMME “PUBLIC HISTORY”

- Master programme with integrated practical semester: Module with 23 CP as an internship at a regional historical-cultural institution with accompanying block seminar
- The aim of the internship is to develop and, where appropriate, implement a separate (sub) project (e.g. creation of an exhibition concept, inventory of an archive collection or production of a radio feature) under the guidance of the respective experts.
- Scope of the internship is usually 4 months of 3 working days/week
- For the internships, the programme has permanent cooperation partners in the region. Location advantage: dense network of non-university institutions and stakeholders of historical knowledge transfer (archives, museums, foundations, memorials, independent historians and media houses) in the Ruhr area.
- Additionally, integration of practitioners in the other modules of the programme or organisation of exchanges with professional public historians working in the region.



# EXAMPLE 3: MASTER PROGRAMME “ECONOMIC POLICY CONSULTING”

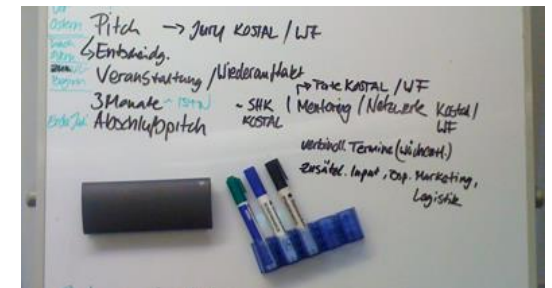
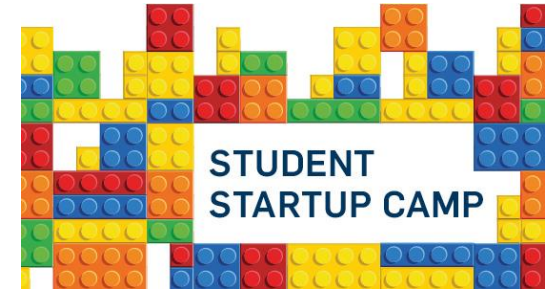
- Economics master programme with integrated practical 3rd semester: Module with 20 CP as an internship and 10 CP in the module “Professional Skill Development”
- Specialisations: Quantitative Methods; Regional, International and Development Economics; Environmental Resource and Energy Economics; Microeconomic Theory and Application
- In the practical semester, students should develop solution-oriented suggestions following a project or research draft for a practice-oriented and practice-relevant research question.
- Internships are completed at companies, ministries, administrations or associations in Germany and abroad.
- The accompanying module “Professional Skill Development” uses a coaching concept that teaches the participants relevant “soft skills” that are essential in the field of policy consulting.





# EXAMPLE 4: STUDENT START-UP CAMP

- Interdisciplinary event of the Center for Economic Education of the RUB in cooperation with the company KOSTAL
- Following an introduction in business planning and creative product development techniques such as design thinking, students develop business ideas for new products and services.
- The student teams subsequently publicly present their ideas, and three teams can then further develop their business idea with the support of RUB and KOSTAL (e.g. downstream coaching).
- The target group are students and doctoral candidates of all disciplines. There were 60 participants in the first run that has just been completed.



# TRANSFER AND START-UP CONCEPT

- Transfer as a task: Interdisciplinary campus and MARK 51°7 offer an ideal environment
- Entrepreneurship: Student Start-Up Camp, IT Security Incubator (HGI), Inventor Competition, Idea Lab Digitisation etc.
- Learning Factory of the Chair of Production Systems
- Start-up consultancy, events and coworking spaces in the University Forum (UFO) with more than 10,000 participants so far
- Establishment of a 2,000+ sqm makerspace
- IT-Security-Pitches Bochum
- Center for Entrepreneurship, Innovation and Transformation (CEIT)
- Scientific training at the Academy of RUB

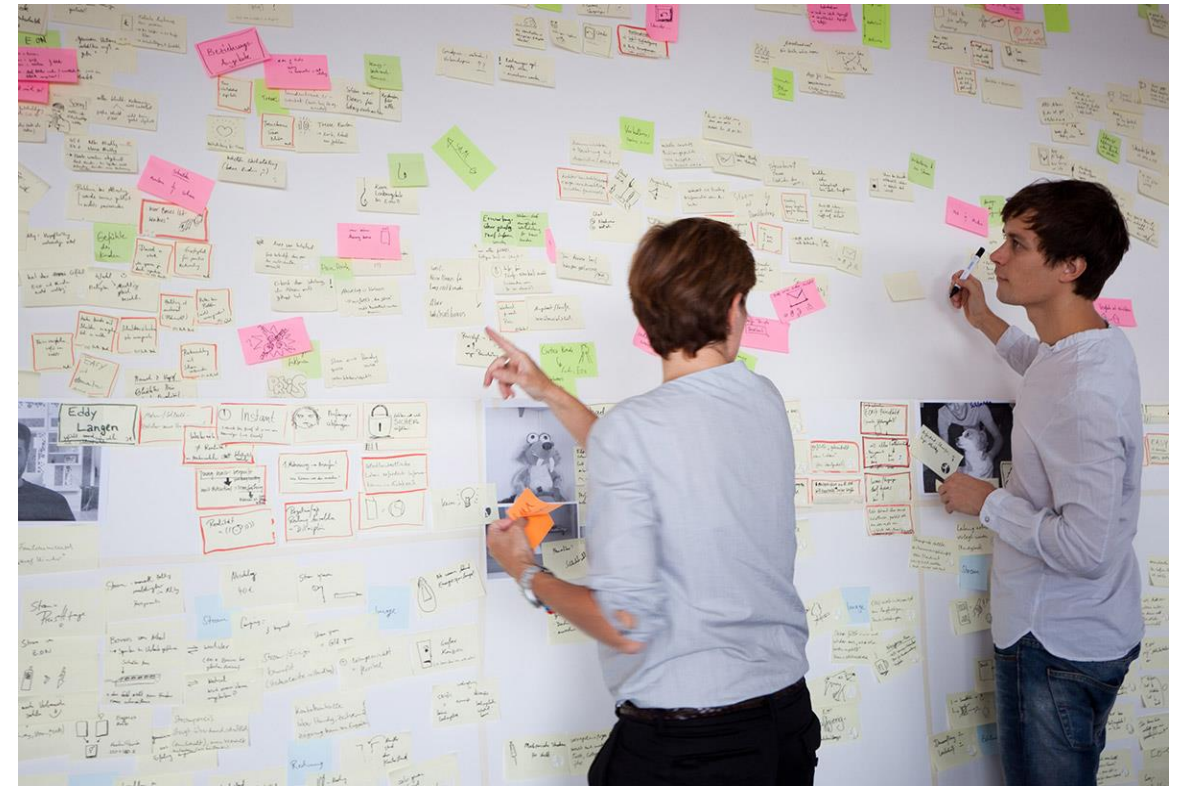




# MAKERSPACE



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# ECOSYSTEM TRANSFER





