

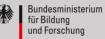
Annual Erasmus+ Beneficiaries and Stakeholders Conference for the field of higher education

Zagreb, Dec. 6th 2018

Markus Fischer, Technische Universität Berlin markus.fischer@tu-berlin.de



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Consortium

 Technical universities in Aalborg (AAU), Berlin (TUB), Copenhagen (DTU), Cracow (CUT), Dublin (DCU) and Trondheim (NTNU)



 Associated partners from industry, other non-academic research facilities and local authorities



Nordic Water Network-area

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Network characteristics

- Theme: Water
- Territory: Northern Europe ٠
- Research and education focus: Urban Water Cycle ٠
 - Emerging pollutants
 - Storm and Waste Water Management
 - Fluid Flow Machines •
 - Smart Water Networks (Digitalisation)
 - Governance
- Target group: Scientists and students
- Funding: Internal and External •





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Objectives

- Sustainable instrument for collaboration
- Connecting water experts in Europe
- Pooling of resources (laboratories, knowledge, contacts)
- Bridging the research-to-practice gap in education
- Supporting interdisciplinarity
- Extend the offer on courses in English
- Visibility in the water sector

Nordic Water

Network

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Genesis



- **2012:** Strategic Partnership TUB-NTNU
 - Different core groups in this partnership (Entrepreneurship, Energy systems, Neurosciences, Water)
- 2014: Joint proposal "Nordic Water Network" (DAAD)
- **2015:** NWN started as a bilateral network
 - Different departments and faculties of NTNU and TUB involved
- 2016: Aalborg University and Cracow University of Technology joined
- 2017: Dublin City University and Technical University of Denmark joined
- **2019:** Start of second funding period (DAAD)

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Bundesministerium für Bildung und Forschung

Governance structure

- ALBORG UNIVERSITET

Star-shaped network organisation

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- Project lead at TUB
 - Coordination office
 - Main budget
 - ECTS awarding
- NWN Board
 - Represeantitives of every NWN partner
 - Network conference / 1 p.a.
 - Board meetings / 2 p.a.
- Partner Administration
 - Rector's office
 - International office
 - Faculties Departments

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Portfolio of actions





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Milestones

- Ten joint dissertation projects (7 ongoing)
- Regularly **publications** of joint research results in journals and on conferences
- 15 jointly supervised Master theses
- Adjunct Professorship of Prof. Thamsen (TUB) at NTNU, Faculty of Engineering
- Sabbatical of Prof. Sætran (NTNU) at TUB
- Four annually organised Summer Schools
- PhD Conference every second year
- Two already submitted H2020 proposals
- Four NWN Conferences





Lecture at the NWN Spring School 2018

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Quo vadis?

- **Sustainability** approach
 - Third-party funding
 - EU funding (Horizon2020, Interreg, ERASMUS+)
 - Bilateral funding programmes ٠
 - National funding programmes (e.g. DAAD, NAWA)
 - Internal funding
 - Exclusive budgets from the universities
- Integration of NWN education activities in various curricula
- **Joint study track** "Water Technology" (M.Sc.)
- From star-shaped to a **fully meshed network**
- Extension of the network



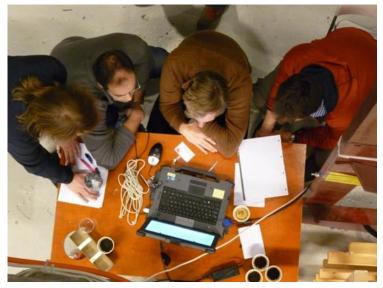




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Challenges

- Limited budgets: mostly for bilateral actions only (Germany-partner country)
- Sustainability approach vs. limited funding periods
- **Coordination** at each partner university
- Different academic terms
- Different grading systems



NWN students looking for the best solutions

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The development of a *European University Network* (ERASMUS+)



- 1. Support **interdisciplinarity** to reach as many departments as possible at each partner university
- 2. A full time **coordination team**: one main plus local coordinators
- 3. Close **top-down and bottom-up** relation at each partner university
- 4. Use **Summer Schools** to attract students for your partner universities

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Thanks for your attention!

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Markus Fischer, Technische Universität Berlin markus.fischer@tu-berlin.de



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