

TUM. The Entrepreneurial University.

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Research and Commercial collaborations at the Technical University of Munich

EUA Annual Conference 2019 Driving innovation in Europe's universities

11-12 April 2019 Sorbonne University





At TUM Knowledge and Technology Transfer is made...

through people

- → conference attendance and/or presentations
- → Bachelor, Master and Doctoral theses in collaboration with industry
- → consultancy services
- Benefits
 - → latest trends
 - → contacts
 - → exchange of experiences

through collaboration

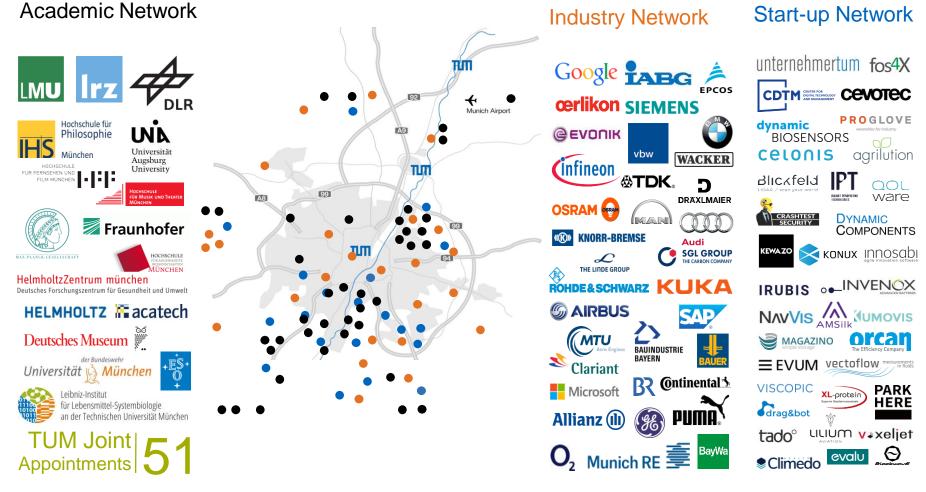
- → contract research
- → co-operations
- → strategic alliances
- Benefits
 - → access to external expertise and equipment
 - → creation of centres of scientific excellence
 - → establishment of longterm relationships

through IPR/entrepreneurship

- → IPR commercialization
- → start-up or spin-of companies
- Benefits
 - → financial income
 - → reputation
 - → proof of competence

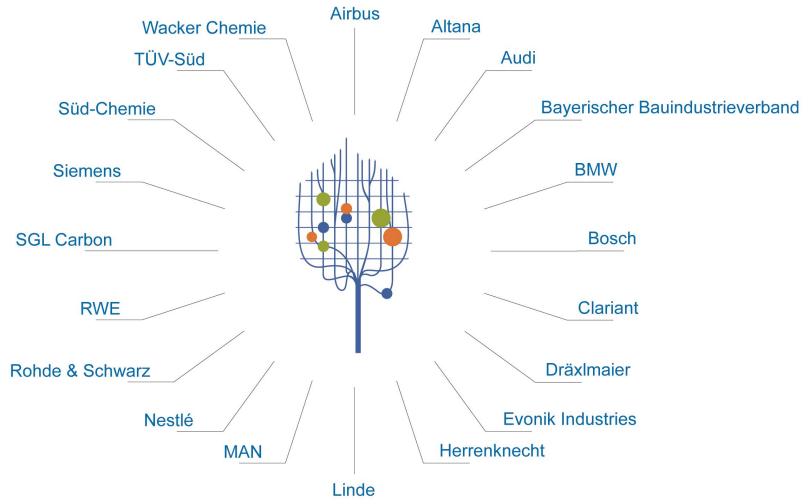


European Metropolitan Region Munich



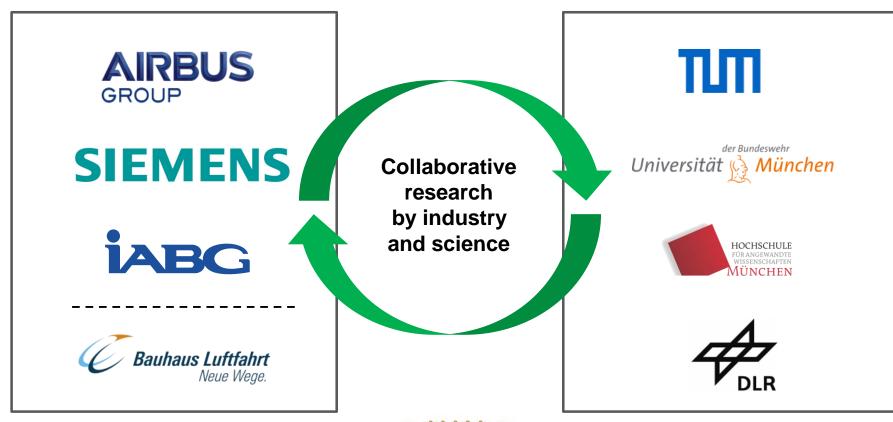


Partners of Excellence



The Ludwig Bölkow Campus





... with the support of the

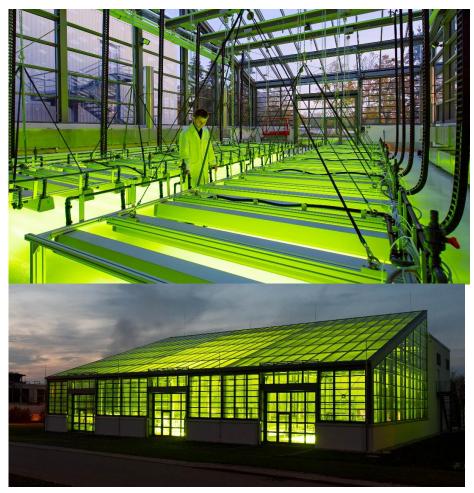


Free State of Bavaria



TUM@Ludwig Bölkow Campus: Kerosene from Algae

- Algae cultivation center
- Carbon incorporation from CO₂
- Full-range climate and sunlight simulation
- Joint venture TUM Airbus Group Clariant
- Prof. Thomas Brück et al. Industrial Biocatalysis





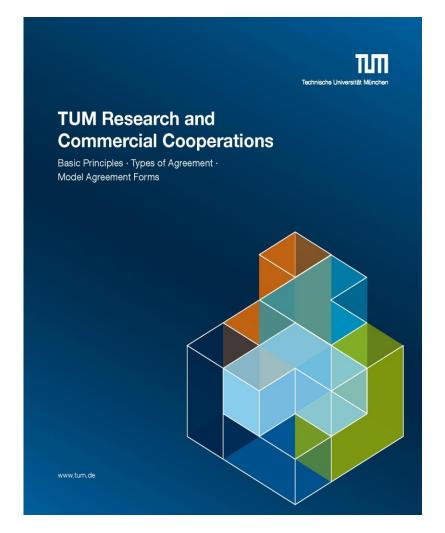
Impact for the industry

- > access to state of the art, know-how and technologies
- > access to high potential students, graduates and scientists
- enlargement of the innovation portfolio
- acceleration of the international innovation processes
- > joint participation in national and international funding programs



TUM Research & Commercial Cooperations

In February 2013, TUM implemented university-wide model agreements for collaborative research



An overview of types of agreements



Type of Agreement	Contents of Agreement	Result	Remune- ration	Publication Rights	Confidentiality Requirements	Guarantee Exemption and Limits on Liability	Intellectual Property Rights
Contract for Work and Services	Scientific services for third-parties (e.g. measurement, testing, software	Agreed work is performed in accordance with relevant property law and other applicable law	Full costs basis (operating revenue)	No	Full confidentiality for a specified period	Limits on liability	None, but know-how must be kept confidential
Research & Development Agreement	Fully financed research projects involving third parties, particularly commercial companies (contract research)	Target-oriented research program, open in terms of outcomes, no obligation to deliver concrete project success	Full costs basis (third- party funds)	As appropriate	As appropriate, for a specified period	Both	IPRs remain in TUM's possession, or are transferred in return for payment of an intangible assets surcharge
Collaboration Agreement, Type 1 (no public funding)	Research projects involving collaborators who contribute equally to the project goals	Medium-/long-term research program, no obligation to deliver concrete project success	Usually no payment (third-party funds)	Unencumber ed right to publish	As appropriate, for a specified period	Both	IPRs are held by the partner who created them
Collaboration Agreement, Type 2 (public funding)	Cooperation with industrial or academic partners as part of collaborative projects with public funding (e.g. Federal Ministries)	No obligation to deliver concrete project success, but nonetheless the partners must perform work to very high professional standards	From funding provider (third-party funds)	Unencumber ed right to publish	As appropriate, for a specified period	Both	IPRs are held by the partner who created them; collaboration partners have a limited-time option to acquire or license the IPRs
EU Consortium Agreement	Partners' rights and obligation when carrying out an EU cooperation project	No obligation to deliver concrete project success, but nonetheless the partners must perform work to very high professional standards	From funding provider (third-party funds)	As appropriate	As appropriate, for a specified period	Both	IPRs are assigned per the relevant provisions



Thank you for your attention!

