TransBIB – German Transfernetwork Boosting Industrial Bioeconomy and LifeLong Learning

Matthias Scholz

TUM Technical University of Munich, Straubing, Germany

IL3-Institute for Lifelong Learning





A Leader in Academic Rankings

쩹

QS World University Rankings 2025

No. 1

No. — O

THE World University Rankings 2025

No. 1

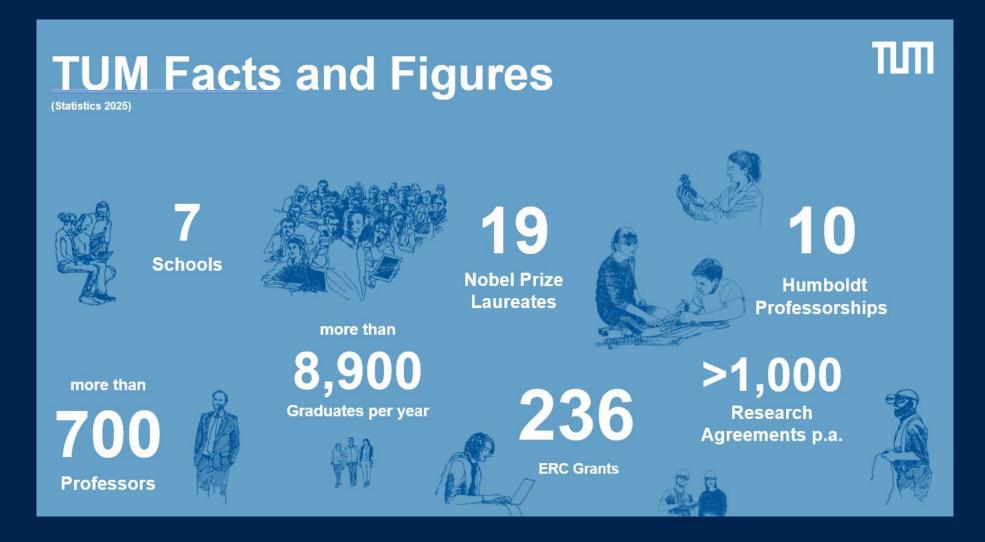
No. 40 in the world

Shanghai World University Ranking 2024

No. 2









쩹 Locations A University born in Bavaria Heilbronn Straubing TUM spans six large sites in Bavaria and one in neighboring Baden-Wuerttemberg. • Freising-Weihenstephan Garching • ● Raitenhaslach Munich • Ottobrunn



Munich





Oktoberfest

>7 Mio. Visitors

Population 1.6 Mio

4.4

40 Mio

Straubing



Gäubodenfest

1.25 Mio Visitors

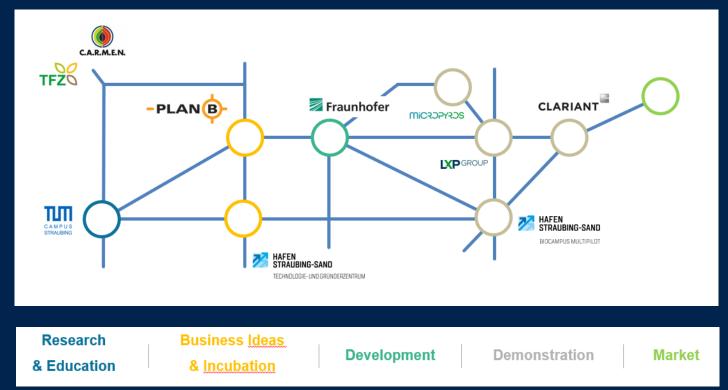
Population 50.000

25



Straubing Bioeconomy Ecosystem

















Executive & Professional Education TUM Institute for LifeLong Learning Technical University of Munich



Our Impact at a Glance

100

Interdisciplinary programs

forming a continuously expanding, future-oriented learning portfolio

+10.000

Graduates

advancing their personal and professional development through our programs

103

Professors from 7 schools

ensuring the academic quality and interdisciplinary approach of <u>our</u> advanced education programs

Worldwide

Partnerships and Collaborations

with leading companies and international institutions



TUM Institute for LifeLong Learning Technical University of Munich



Our Continuing Education Portfolio

Executive MBAs

Part-time programs at the interface of management and technology



Master of Advanced Studies Advanced part-time programs for professionals, experts & leaders

Certificate Programs

Wide range of advanced training opportunities for professionals



edX coursera

Customized Programs

Tailor-made offers for companies and international universities











TUM Institute for LifeLong Learning Technical University of Munich



Advanced Education for all competence areas





















Trans**BiB** Industrial.

Boost. Bioeconomy.

Transfernetwork **Boosting Industrial Bioeconomy**



TransBIB – key facts



3

18

>40

>100

5,5

years

project partner

competence hubs

experts

Mio. € funding

Förderprogramm Industrielle Bioökonomie



Boost.
Industrial.
Bioeconomy.

Gefördert durch:



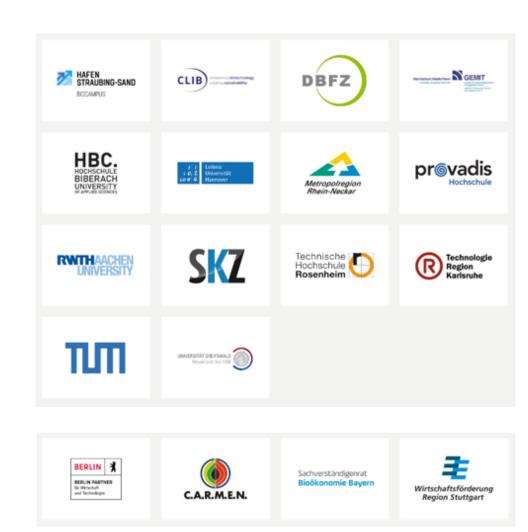
aufgrund eines Beschlusses des Deutschen Bundestages



TransBIB consortium







From regions and hubs to a meta-network





Competence Regions

- Funding partners
- Acquisition from 1st symposium (2024)
- Latest additions



Networking & Collaboration

Initiation & support of collaborations

Hosting of networking events, workshops and trainings



Knowledge Collection & Accessibility

Identification & verification of knowledge, competences, data, technologies

Al-assisted accessibility (TransBIB One Stop Shop)



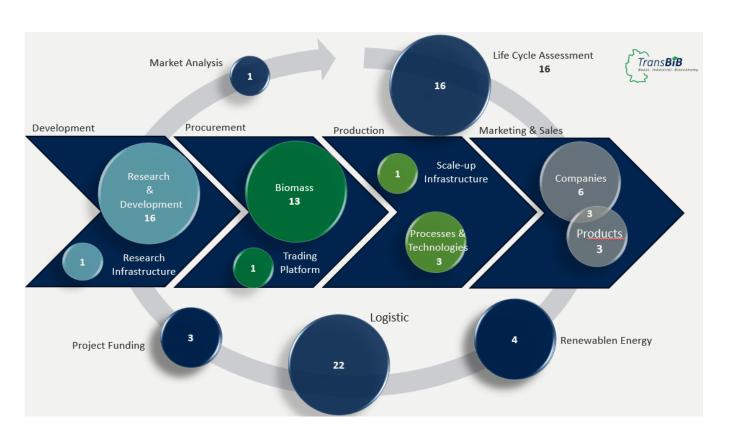
Technologies, Processes & Scale-up

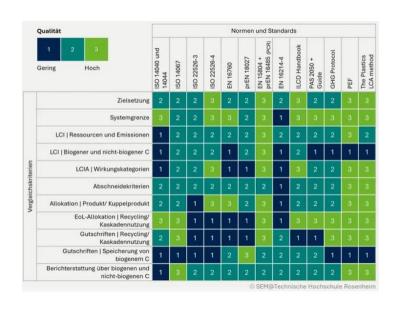
Link to funding program "Industrial Bioeconomy"

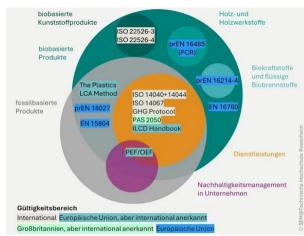
Support for market launch (scale-up, LCA & certification)

Data









Data Scale-Up



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Where can I find a 25 m3 Fermenter?

Ich habe Informationen zu einem 25 m³ Fermenter gefunden:

Im BioCampus Multipilot in Straubing (ab 2027 verfügbar) wird es eine Fermentationsanlage geben, die Fermenter von 10 L bis 25 m³ umfasst. Diese Anlage wird Teil der neuen Mehrzweckdemonstrationsanlage am BioCampus des Hafens Straubing-Sand sein.

Der BioCampus Multipilot wird verschiedene Verfahren anbieten:

- Fermentation (aerob/mikroaerob 10 L 25 m3)
- Enzymkatalyse (zellfrei, 10 L 25 m³)
- Rohstoffaufbereitung (mechanisch, chemisch, thermisch, enzymatisch)
- Down Stream Processing (mechanische, chemische, thermische Verfahren, Membranverfahren, Zellaufschluss, Konfektionierung)

Weitere Informationen finden Sie unter: https://www.hafen-straubing.de/biocampus-multipilot/

Wenn Sie Unterstützung bei der Vernetzung brauchen, helfen wir Ihnen gerne weiter.



TransBIB | One Stop Shop



Scale – up
Infrastructure



Data Basis



Getting started with LCA



Guidelines & Whitepaper



Matching Platform



Certification Systems



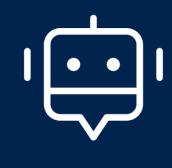
Project Consulting



Trainings & Insights



TransBIB Chatbot



Competence Pool



Roadmap to success



What does it take to establish and boost bioeconomy?

Comprehensive knowledge & data

- Valorization pathways
- Trends in materials/technologies
- Scale-up facilities
- Experts

Strong communication & partnerships

- Various formats
- From bioeconomy newbys to experts

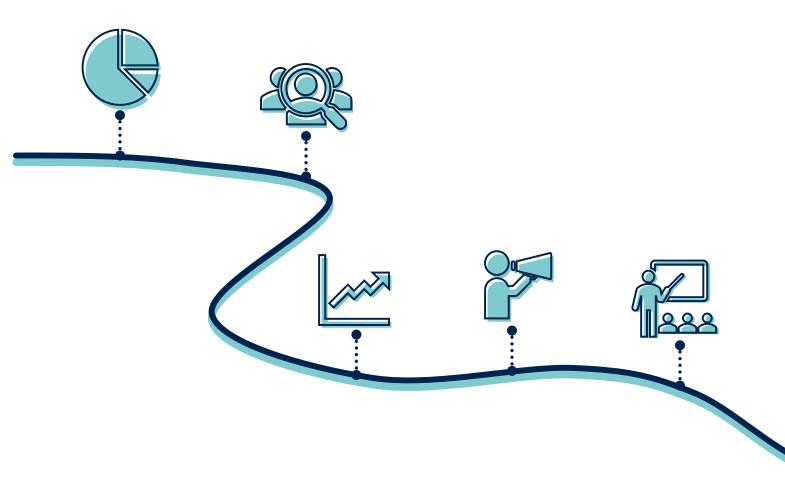
Best practices

Encouraging lighthouse projects

Various formats

- online
- Hybrid
- On-site in different regions





TransBIB | Knowledge center



Regular Learning Lounges (online)

- 1h duration
- Selected topic of interest
- Free webinar
- 24/7 accessible via TransBIB website

Learning Lounge: Out of the labScaling infrastructure for the industrial bioeconomy in Germany

In order to bring new bloeconomy processes to market maturity more quickly, there is a need for facilities in which processes can be scaled up and optimised. In this Learning Lounge, we present existing and planned facilities for scaling up We will present how these infrastructures can be utilised so that processes tested in the laboratory can be developed to product-relevant dimensions and their economic valsility can be letter demonstrate.



Learning Lounge: Best practices in the industrial bioeconomy

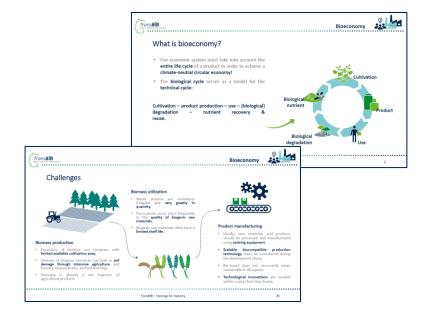
Bioeconomy - a modern and sustainable form of economic activity based on the efficient utilisation of biological resources such as plants, animals and microorganisms - offers many long-term advantages. However, in order for new processes to become competitive, there are a number of hurdles to overcome, from the reliable availability of biological resources to securing sufficient funding. This Learning Lounge presents two companies that have overcome these hurdles. You can look forward to exciting insights and an open discussion with these companies.



White paper and industry reports

Free information/training materials (online)

- Industry-specific
- Insights in current research and trends
- Free download in German & English



TransBIB | Communication & events















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I have an idea on fermentation of ABC and am looking for the possibility to test the reaction at larger scale.

Hi

I have found the following scale-up facilities for you: XY. Alternatively, there are AB and AZ. Would you like to search for the respective contact information?



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Trans**BiB**Boost. Industrial. Bioeconomy.

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What data and skills do I need to become a good Learning Agent?



