

# TUM. The Entrepreneurial University.

Sören Metz

Liaison Officer Latin America

TUM São Paulo

UFABC

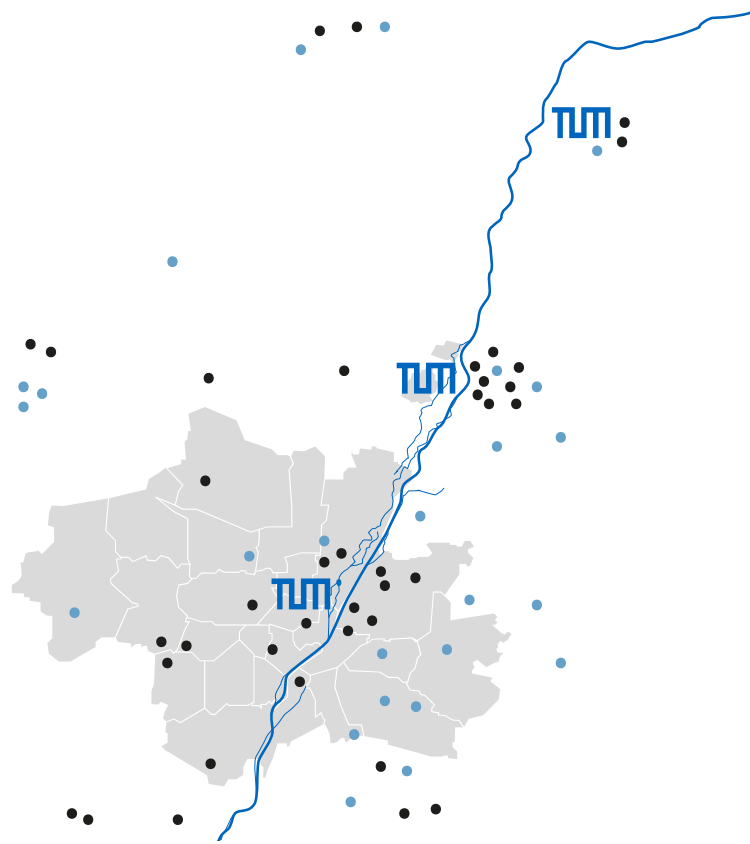
Dia da Alemanha

20.02.2019



# European Metropolitan Region Munich

## Research Network



## Industry Network



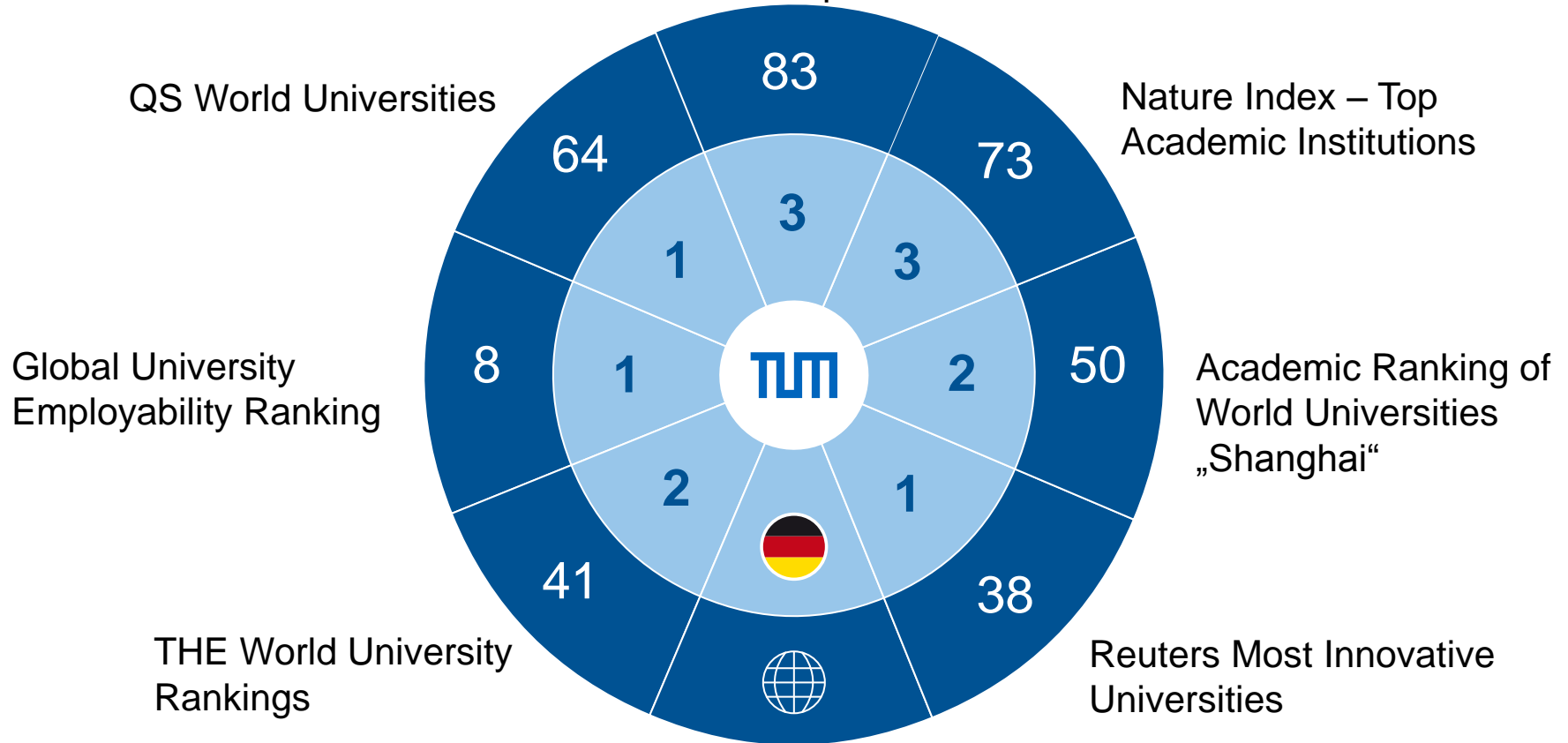
# TUM at a Glance



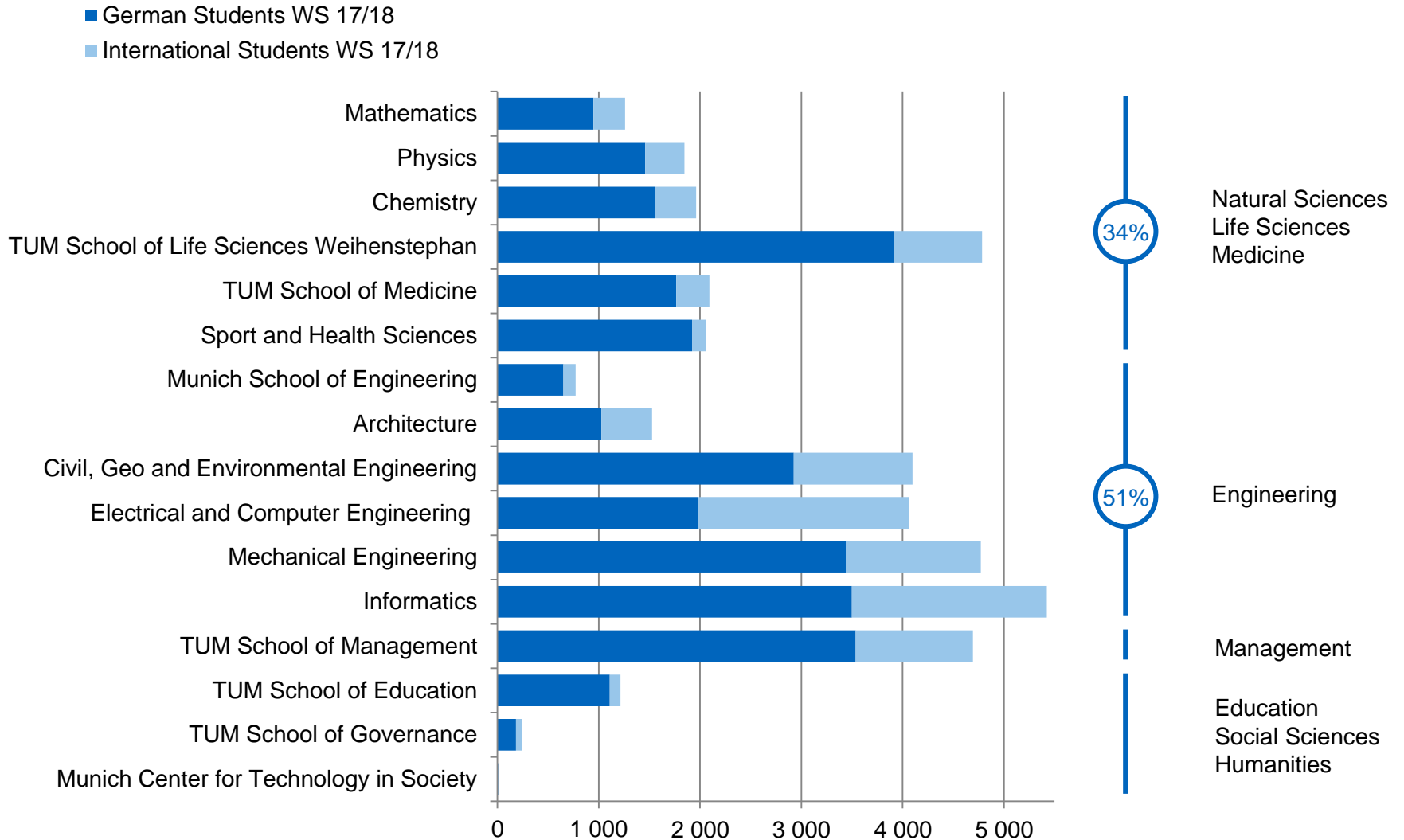
<b>Students</b> <b>~ 41,500</b> 35% female 29% int'l	<b>Professors</b> <b>545</b> <i>2016</i>	<b>Faculties</b> <b>14</b>	<b>Degree Courses</b> <b>172</b> 99 Masters 28 in English
<b>Graduates</b> <b>~ 8,900</b>	<b>Doctoral Theses</b> <b>&gt; 1,000</b>	<b>ISI Publications</b> <b>~ 6,000</b> <i>2016</i>	<b>Research Agreements</b> <b>&gt; 1,000</b>
<b>ERC Grants</b> <b>71</b> <i>Since '08</i>	<b>Humboldt Laureates</b> <b>47</b> <i>2011-15</i>	<b>Leibniz Laureates</b> <b>18</b> <i>Since '87</i>	<b>Nobel Laureates</b> <b>16</b>
<b>Startups</b> <b>700+</b> <i>Since '90</i>	<b>Fundraising</b> <b>~ 280M</b> <i>1998 - 2016</i>	<b>3<sup>rd</sup> party funding</b> <b>285 M</b> <i>2016</i>	<b>Locations Abroad</b> <b>7</b>
<b>University of Excellence since 2006</b>			

# TUM in Rankings 2017/18

Best Global Universities  
U.S. N&W Report



# Students by Departments



# TUM. Estudar na TUM

## •Custos:

- **Matrícula:** 129 Euros (por semestre) com transporte local
- **Custo de vida** (entre 700 e 800 Euros ao mes)
- **Bolsa do Estado Bávaro** para alunos de colegios alemães – BayBIDS ([www.baybids.de/Motivationsstipendien.html](http://www.baybids.de/Motivationsstipendien.html))

## •Atividades extracurriculares:

- Instalações esportivas do **Centro Olímpico**
- **Cursos de idioma** (gratuito, também alemão como língua estrangeira)
- A cidade de **Munique**



**Mais informações:**

**[www.tum.de/en/studies/fees-and-financial-aid/](http://www.tum.de/en/studies/fees-and-financial-aid/)**

**[www.tum.de/en/university-life/](http://www.tum.de/en/university-life/)**

# Master courses at TUM 1/2

## Various Master courses completely in English or in English/German

- 30 Master courses in English and 28 Master courses in English and German in Science and Engineering
- <http://portal.mytum.de/studium/studiengaenge/englisch>

## Duration

- 2 years (4 semesters)
- Administrative Fees: 129 Euros / semester

## Preconditions / Application process

- Outstanding Bachelor degree (BSc), needs to be recognized
- Letter of Motivation
- Letters of recommendation (normally from 2 different professors)
- German language skills helpful but not mandatory (only for Master courses completely in English language)
- Good knowledge of English is essential (TOEFL: min IbT:88, CbT:234, PbT: 605 / IELTS: min 6,5 and CAE&CPE Level A,B and C )
- Sometimes Internships and work experience required
- Interviews in some cases (via skype or personally)
- Every course has its own list of required documents



# Master courses at TUM 2/2

## International Master courses in English

- Sustainable Resource Management (Master)
- Nutrition and Biomedicine (Master)
- Physics (Applied and Engineering Physics) (Master)
- Power Engineering (Master)
- Power Systems and Energy Management (Master)
- ESPACE-Earth Oriented Space Science and Technology (Master)
- Environmental Engineering (Master)
- Communications Engineering (Master)



## International Master courses in English and German

- Management and Technology (TUM-BWL) (Master)
- Nanoscience and Catalysis (Master)
- Landscape Architecture (Master)
- Industrial Biotechnology (Master)
- Electrical Engineering and Information Technology (Master)
- Robotics, Cognition, Intelligence (Master)



# Doctorate at TUM I

## Various schemes towards a doctorate

- Individual doctorate (chair-centered)
- Doctorate in cooperation with a research institution or industry



All doctoral candidates are members of the TUM Graduate School that supports them and their careers with a wide range of tailor-made courses, networking opportunities and services.

## Duration

- usually 3 years for scholarship holders
- 4-5 years for research associates (employment contract)

## Preconditions

- outstanding Master's degree (MSc), needs to be recognized
- appropriate funding needs to be secured
- German language skills helpful but not mandatory
- good working knowledge of English is essential (no TOEFL scores need to be proven, though)

# Doctorate at TUM II

## Application process

- investigate research opportunities at TUM and its departments/schools
- use any previous contacts
- discuss with TUM liaison officer
- contact prospective TUM professors directly with
  - CV
  - research proposal (with a rough outline)
  - list and abstracts of publications (if available)
  - certificates, diplomas
  - references

### *In case there is mutual interest:*

- discuss topic further
- specify milestones in supervision agreement
- find and secure funding
- start registration process at TUM (online)
- contact Welcome Office of TUM Graduate School for help with accommodation and visa issues
- start learning German (if possible)



# TUM-GS (Graduate School)

## Opportunity Grant:

- Test Drive for candidates
- 2 months at TUM
- 700 Euros(month) plus 150 Euros rent support (month)
- Apply via TUM Liaison Office and by the TUM professors

## Employment at TUM

- Employment as research associate at the chair or institute (Wissenschaftlicher Mitarbeiter)
- Working closely with the supervisor
- Often involves teaching and administrative tasks

## Scholarship

- Scholarship from external institution
- Active participation in the academic environment of TUM



## External Doctorate

- Either employment at an external research institution (e.g. Max-Planck-Institut)..
- ..or employment at a company
- Active participation in the academic environment of TUM

# TUM Research Opportunities Week

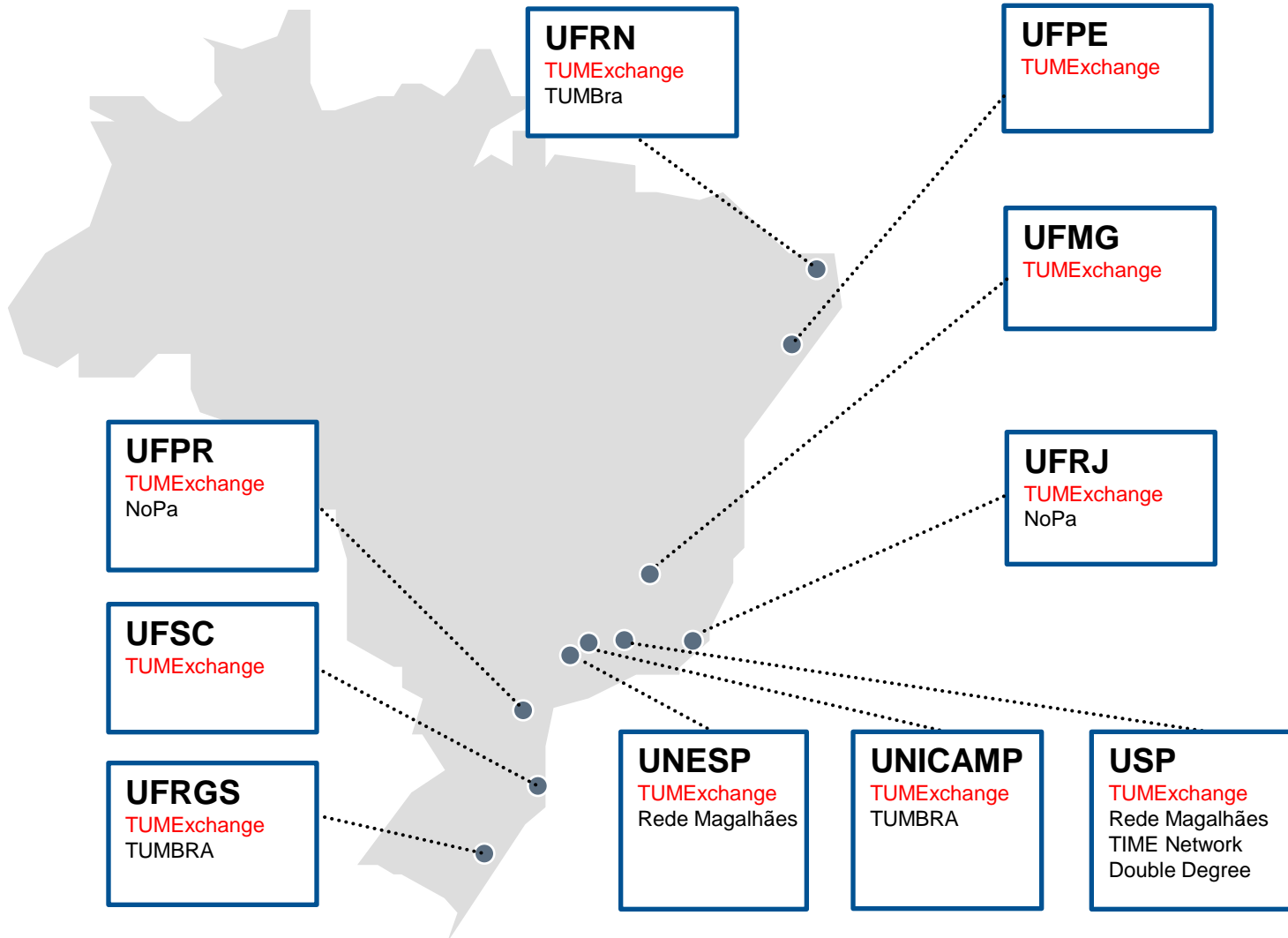
- One application round per year: open to advanced PhD students and young post-docs (< 3 years after PhD)
- **One-week** stay financed by the Postdoc Mobility Travel Grant (**50 postdocs**; accommodation, travel expenses and meals)
- **One-year TUM University Foundation Fellowship** for top candidates
- **Next deadline: October 31!**



## An excellent place for research



## TUM. Universidades parceiras no Brasil



## TUM.Sao Paulo - Liaison Office for Latin America



### Contato:

Sören Artur Metz  
Liaison Officer Latin America  
TUM.São Paulo

Rua Verbo Divino, 1488, Térreo  
04719-904 São Paulo – SP / Brasil

Tel.: +55 (11) 5189 8320  
Email: [latam@tum.de](mailto:latam@tum.de)  
Website: [www.saopaulo.tum.de](http://www.saopaulo.tum.de)

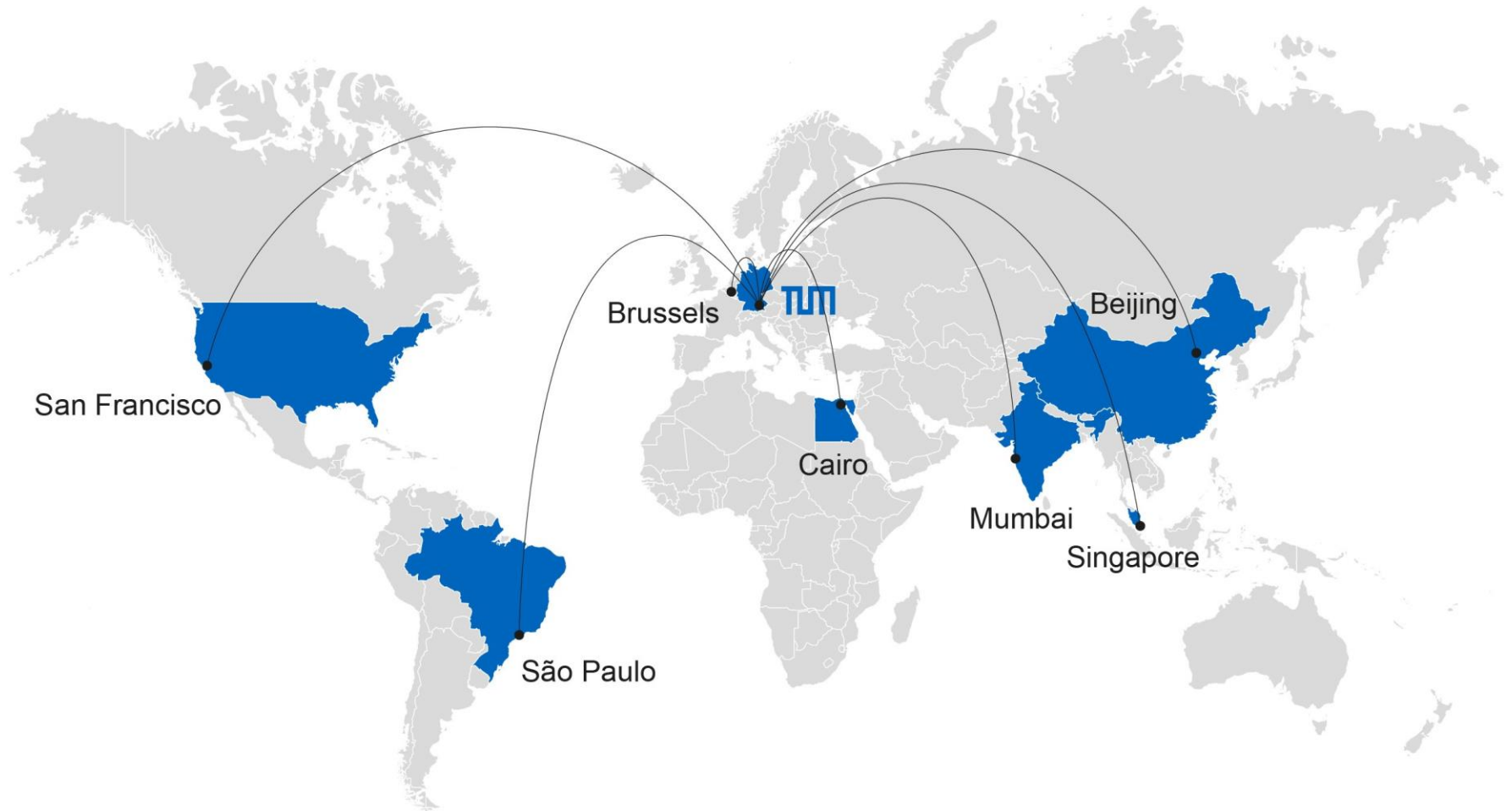
Centro Alemão de Ciência  
e Inovação – São Paulo



Alemanha  
País de Ideias



# Global: Globalization through Localization





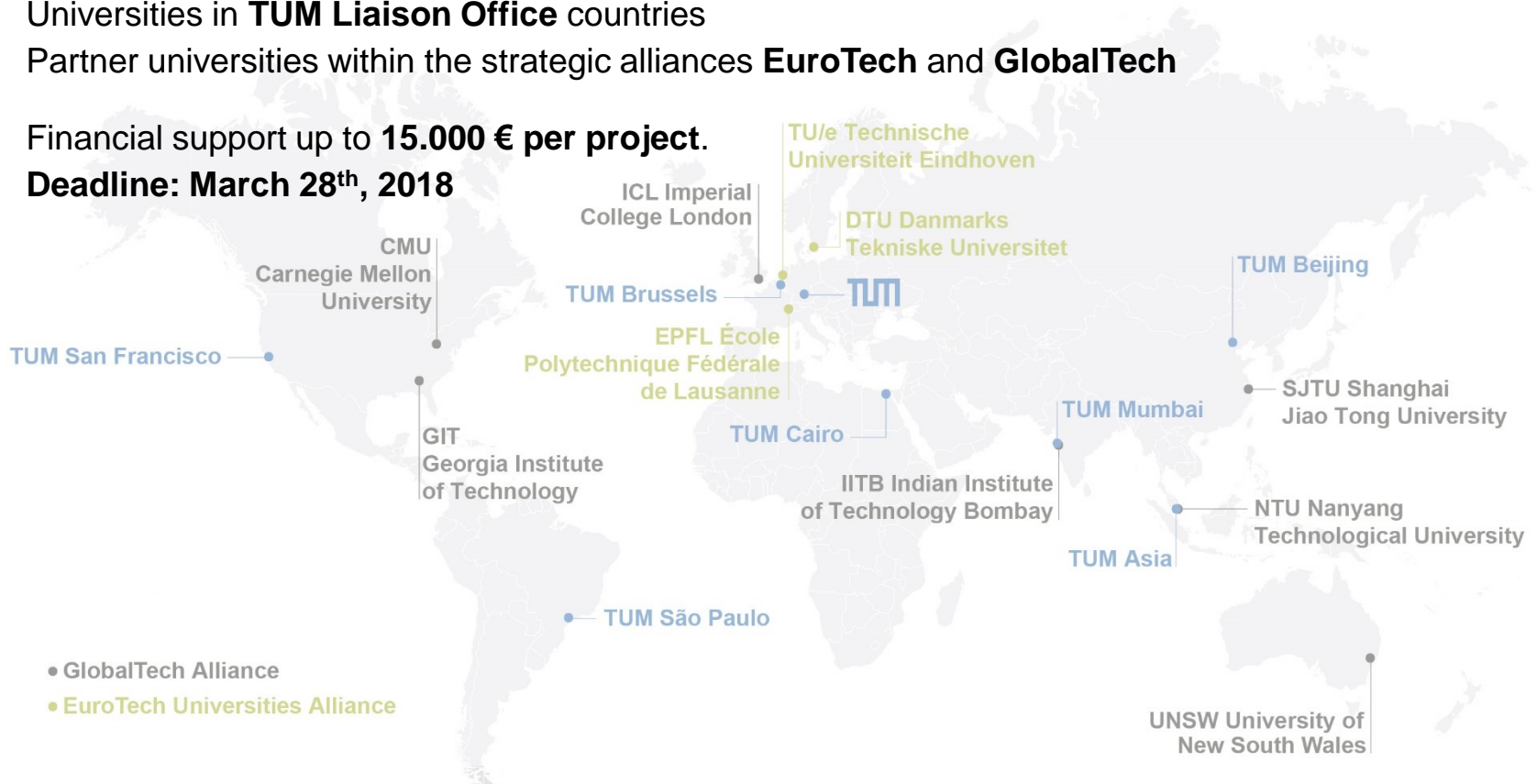
# Stimulating international collaborations – TUM funding opportunities



# TUM Global Incentive Fund







Support & kick-start international research / teaching cooperation

- Universities in **TUM Liaison Office** countries
- Partner universities within the strategic alliances **EuroTech** and **GlobalTech**
- Financial support up to **15.000 € per project.**
- **Deadline: March 28<sup>th</sup>, 2018**



# TUM-IAS (Institute for Advanced Study)

- Accomplish and amplify top-level research at TUM – risking creativity
- Stimulate local and international collaborations
- Develop TUM-IAS as a center for scientific interactions and discussions

	<p><b>Carl von Linde Senior Fellowship</b> for excellent TUM faculty members</p>		<p><b>Rudolf Mößbauer Tenure Track Fellowship</b> for outstanding, high-potential early-career scientists</p>
	<p><b>Hans Fischer Senior Fellowship</b> for renowned international scientists from outside TUM</p>		<p><b>Rudolf Diesel Industry Fellowship</b> for highly qualified researchers from industry</p>
	<p><b>Hans Fischer Fellowship</b> for outstanding early-career scientists from outside TUM</p>		<p><b>Anna Boyksen Fellowship</b> for ambitious international collaborations on gender- and diversity-related topics</p>
<p><b>Visiting Fellowship</b></p>			

Historisches Archiv TUM