

# The Senior Excellence Faculty

of the **T**echnical **U**niversity **M**unich:

Idea and Activities

**Prof. Michael Molls**

Spokesperson TUM Senior Excellence Faculty

Director TUM Institute for Advanced Study

ZOOM-Presentation on 17.11.2021

Professors Emeriti Network

# TUM

**TUM School of  
Computation,  
Information  
and Technology**  
from 10/2022

**TUM School of  
Engineering  
and  
Design**  
since 10/2021

**TUM School of  
Natural  
Sciences**  
from 10/2022

**TUM School of  
Life  
Sciences**  
since 10/2020

**TUM School of  
Medicine  
and Health**  
from 10/2023

**TUM School of  
Management**  
since 10/2021

**TUM School of  
Social Sciences  
and  
Technology**  
since 10/2021

**7 TUM Schools**

**> 48.000 Students**

**75 Start-ups** (in 2019)

**\* 6 Integrative Research Institutes**

**> 180 Degree Programms**

**6.000 Cooperation Agreements** (since 2013)

**TUM Institute for Advanced Study**

**> 600 Professors**

**23 Leibniz Prizes**

**\*\* 7 Corporate Research Centers**

**> 11.000 Staff Members**

**17 Nobel Prizes**

**10 Humboldt-Professors**

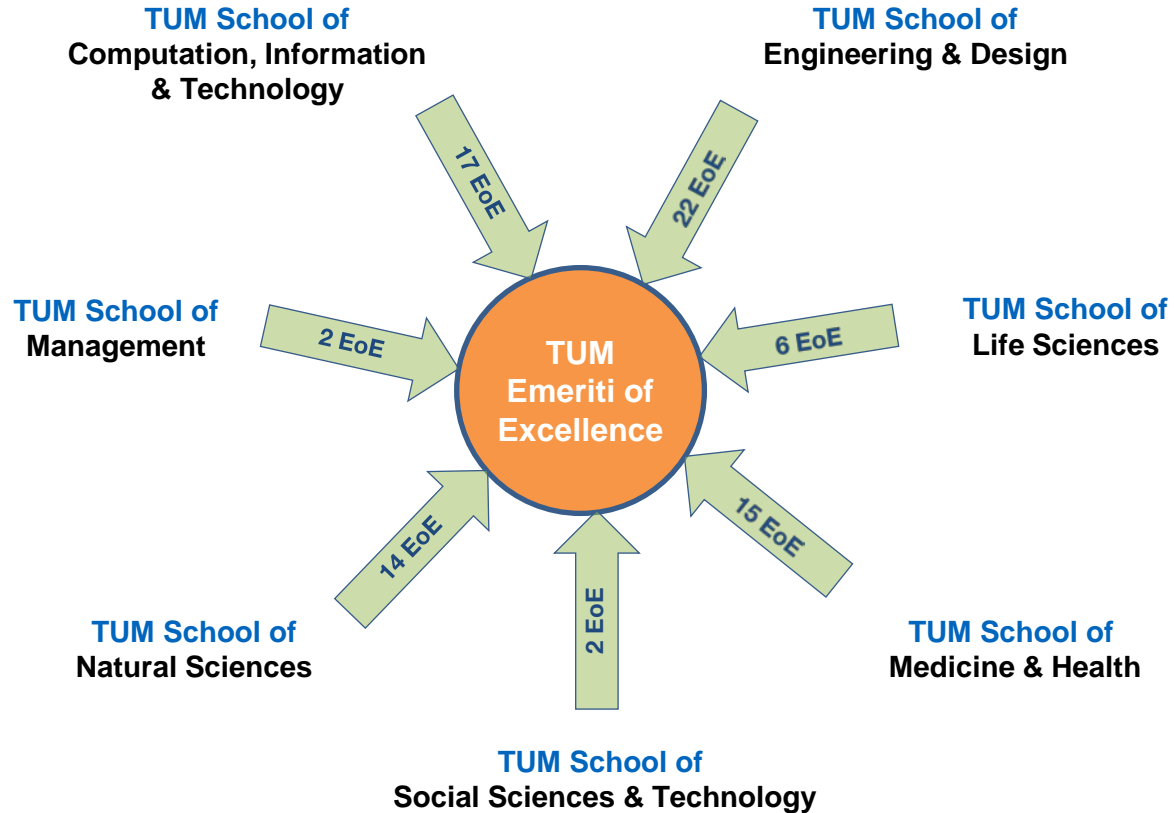
**144 ERC Grant/24 IEEE Fellows** (2020)

\*Munich Data Science Institute (MDSI) | Munich Institute of Integrated Materials, Energy and Process Engineering (MEP) | Munich Institute of Biomedical Engineering (MIBE) | Munich Institute of Robotics and Machine Intelligence (MIRMI) | TUM Campus Straubing für Biotechnologie und Nachhaltigkeit (TUMCS) | *Munich Design Institute* (ab 01/2022)

\*\*Center for Functional Protein Assemblies (CPA) | TUM Catalysis Research Center (CRC) | Forschungs-Neutronenquelle Heinz Maier-Leibnitz (FMR II) | Translationale Krebsforschung (TranslaTUM) | Walter Schottky Institute für Halbleiterphysik (WSI) | World Agricultural Systems Center – Hans Eisenmann-Forum für Agrarwissenschaften (HEF) | Institute for Food & Health (ZIEL)

# TUM Emeriti of Excellence

a multidisciplinary faculty of 77 scientists



## Definition

Since 2006, TUM selects about 4 excellent retired scientists per year and they are awarded with the honorary title **TUM Emerita/Emeritus of Excellence (EoE)**.

The interdisciplinary group of all **TUM Emeriti of Excellence** forms the **TUM Senior Excellence Faculty**.

## Characteristics of the TUM Emeriti of Excellence

- excellence in research, teaching and organizational activities, highly engaged for TUM
- special commitment beyond the own discipline, successful networking in academia & society
- independent position

## Intention of the faculty

- being a source of inspiration
- addressing urgent questions and central issues of the university and society with the aim to generate ideas and initiatives
- supporting discussions and networking between different research fields of the university (interdisciplinarity!) and between university and society
- acting as bridge-builders

# TUM Senior Excellence Faculty

## Organisation



<b>Spokesperson</b> (3 years term)	<p>Spokesperson and Deputy Spokesperson represent the TUM Senior Excellence Faculty and are primary contact persons for the Presidential Board of TUM.</p> <p>The Speaker is invited as a guest to the meetings of the Extended University Executive Board and thus keeps the EoE connected to university, faculties and schools.</p>
<b>Board Sessions</b> (ca. 12 sessions per year)	<p>The Board with about 12 members meets regularly and supports the spokespersons in the tasks processing of the faculty.</p> <p>The Board prepares the discussions and decisions of the General Assembly.</p>
<b>General Assembly</b> (2 sessions per year)	<p>The spokesperson reports on new developments at TUM and on completed and ongoing activities of the TUM Senior Excellence Faculty.</p> <p>The General Assembly discusses strategies, goals and activities of the TUM Emeriti of Excellence and suggests temporary working groups.</p>
<b>Commission for New Members</b> (1 session per year)	<p>The commission of 5 EoE, chaired by the President of TUM, designates 3-5 new members each year.</p> <p>The appointment usually takes place before the age of 70 y.</p>
<b>EoE-Office</b>	<p>The TUM Senior Excellence Faculty is supported by an EoE office with two scientific assistants.</p> <p>The office is financed by TUM and is integrated into the Presidential Office.</p>
<b>Budget</b>	<p>The TUM Senior Excellence Faculty has a budget for funding events, scientific travelling, publications, etc.</p>
<b>Finance Committee</b> (if required)	<p>A finance committee of four EoE monitors the granting of funds.</p>

# Members of the TUM Senior Excellence Faculty

## Important Positions in TUM and Extra Muros up to Nov 2021



### TUM

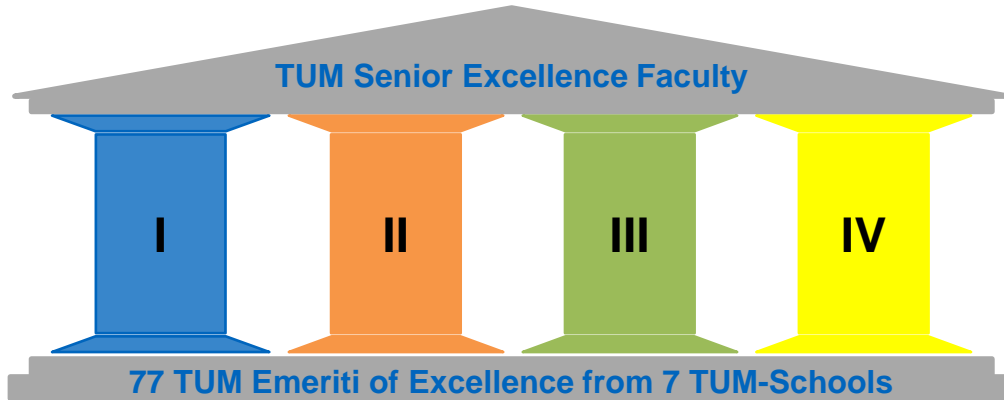
- ⇒ Vice President Compliance
- ⇒ Ombudsperson
- ⇒ Medical Director of the TUM University Hospital „Rechts der Isar“
- ⇒ Director of the TUM Institute for Advanced Study
- ⇒ Chair or Member of Recruitment Committees
- ⇒ Reviewer for Selection Processes (fellowships, internal research proposals, etc.)
- ⇒ Founding Dean TUM Campus Heilbronn (Business Faculty) **etc. ...**

### Extra Muros

- ⇒ Member of the Advisory Board of the Future Cluster NEUROSYS-KI of the BMBF
- ⇒ Director of the Building Art Section of the Academy of Arts in Berlin
- ⇒ President of the Bavarian Academy of Sciences and Humanities
- ⇒ President of the Bavarian Research Foundation
- ⇒ Founding President Center Digitization.Bavaria
- ⇒ President of the European Academy of Sciences and Arts
- ⇒ Deputy Chairman of the Board of Directors of the Skolkovo Foundation (Moskau)
- ⇒ President of the Bernoulli Society for Mathematical Statistics and Probability
- ⇒ Future Council of the Bavarian Economy
- ⇒ President of the Bavarian Academy for Rural Areas
- ⇒ Chairman of the Board of Trustees of the BMW Foundation Herbert Quandt
- ⇒ Medical Director of the University Hospital Heidelberg, University Hospital Freiburg
- ⇒ Member of the Scientific Advisory Board of the National Center for Tumor Diseases **etc. ...**

# TUM Senior Excellence Faculty

## Supporting Pillars



**I**

**Continued Engagement  
in TUM Schools**

- Mentoring
- Selection committees
- etc.

**II**

**Initiators of Symposia on  
Scientifically and Socially  
Relevant Issues**

- Sustainable Risk Management
- Africa-Symposium
- Violated Earth – Violent Earth
- Circular Economy
- etc.

**III**

**Individual Commitments,  
Networking,  
Visibility of TUM**

- Academies
- Committees
- Directorships
- Lecture activities
- Books
- etc.

**IV**

**Research Activities**

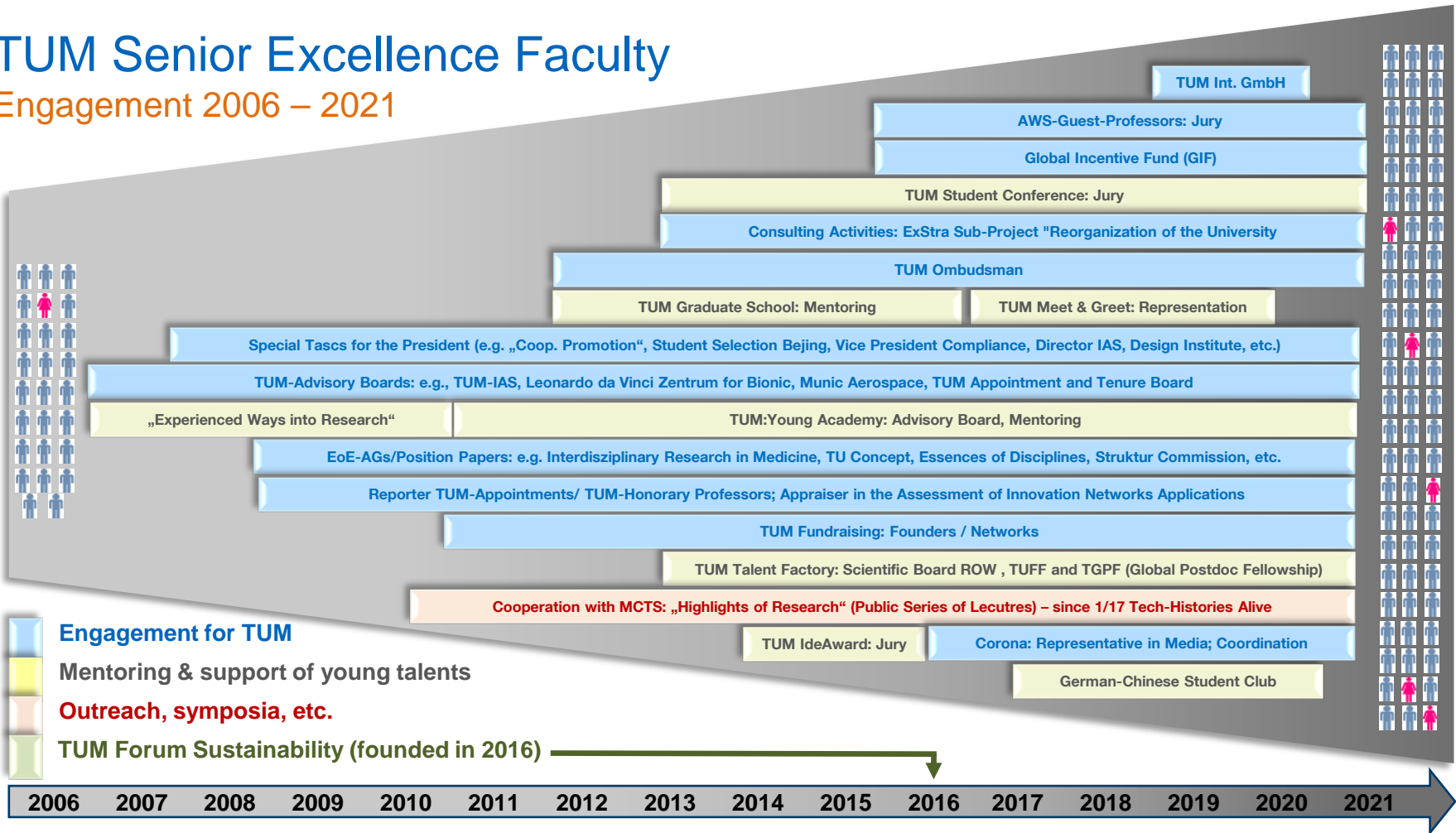
- Publications
- Third-Party Funding
- etc.

# TUM Senior Excellence Faculty

Engagement 2006 – 2021

26 EoE

77 EoE



TUM Int. GmbH

AWS-Guest-Professors: Jury

Global Incentive Fund (GIF)

TUM Student Conference: Jury

Consulting Activities: ExStra Sub-Project "Reorganization of the University"

TUM Ombudsman

TUM Graduate School: Mentoring

TUM Meet & Greet: Representation

Special Tasks for the President (e.g. „Coop. Promotion“, Student Selection Beijing, Vice President Compliance, Director IAS, Design Institute, etc.)

TUM-Advisory Boards: e.g., TUM-IAS, Leonardo da Vinci Zentrum for Bionic, Munic Aerospace, TUM Appointment and Tenure Board

„Experienced Ways into Research“

TUM:Young Academy: Advisory Board, Mentoring

EoE-AGs/Position Papers: e.g. Interdisziplinäre Research in Medicine, TU Concept, Essences of Disciplines, Struktur Commission, etc.

Reporter TUM-Appointments/ TUM-Honorary Professors; Appraiser in the Assessment of Innovation Networks Applications

TUM Fundraising: Founders / Networks

TUM Talent Factory: Scientific Board ROW , TUFF and TGPF (Global Postdoc Fellowship)

Cooperation with MCTS: „Highlights of Research“ (Public Series of Lectures) – since 1/17 Tech-Histories Alive

TUM IdeAward: Jury

Corona: Representative in Media; Coordination

German-Chinese Student Club



# TUM Forum Sustainability

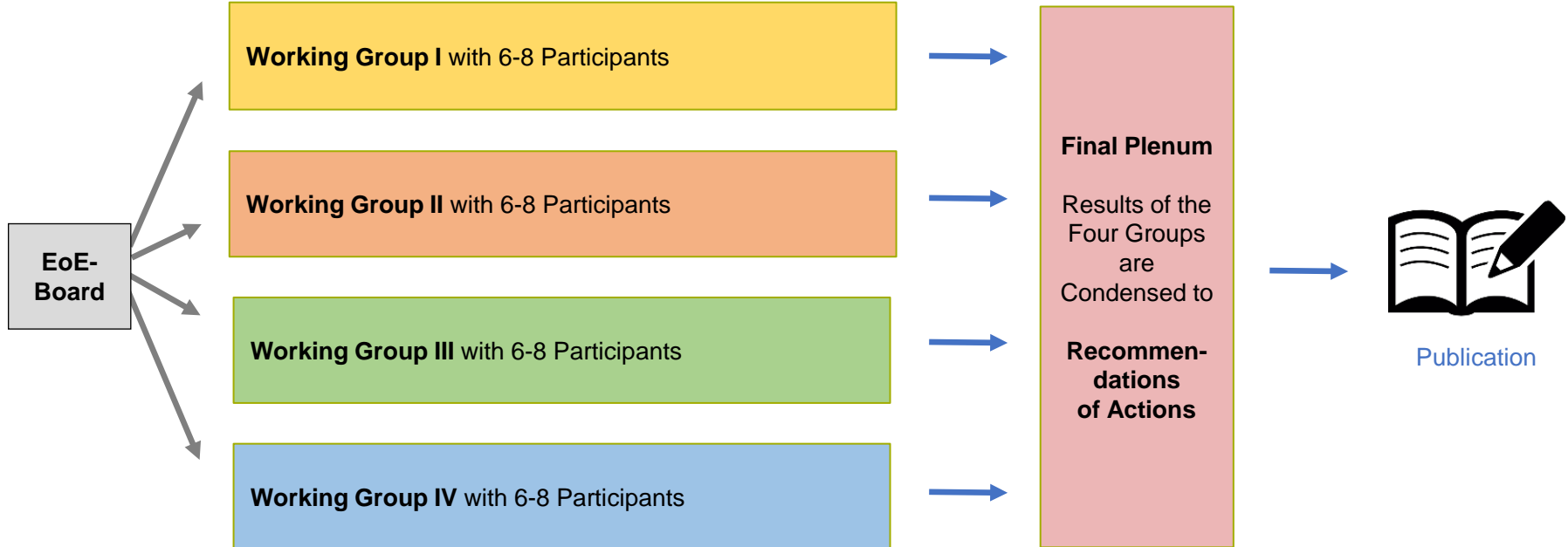
## Dahlem-Conferences as working method



Idea and Preparations



Discussion in Working Groups and Final Plenum



# TUM Forum Sustainability

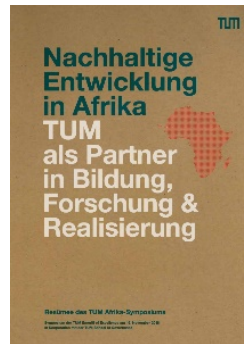


Initiative of Senior Excellence Faculty in Cooperation with IESP and TUM IAS:  
Symposia and Publications

2016



2018



2019



Video:  
Violated Earth –  
Violent Earth

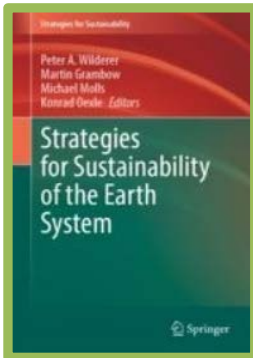
2020



2021



2021



2022

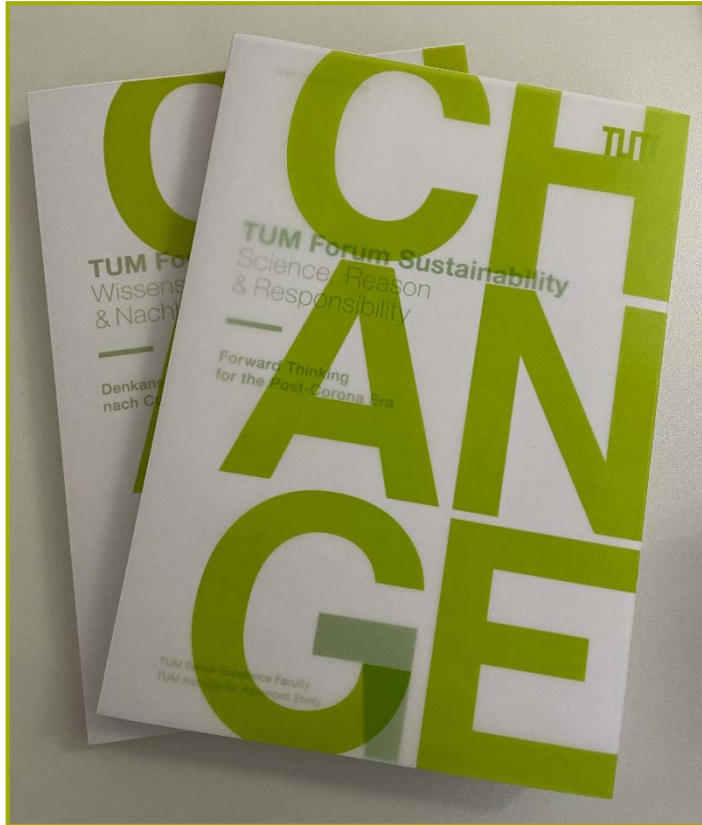


2022



2022





## Book Content

### Forewords by

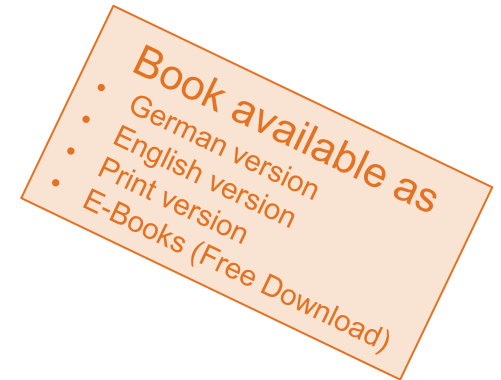
- President of the German Bundestag
- Bavarian Prime Minister
- President of TUM

### 90 Interdisciplinary articles

### 84 Authors from various disciplines

### 9 Chapters

- Sustainability
- Politics & Society
- Fundamental Research
- Technology, IT & Networking
- Habitats, Rurality, Urbanity & Mobility
- Economy
- Health & Medicine
- Education & The Working Word
- Africa



### ISBN

978-3-95884-055-3

### Free Download

<https://mediatum.ub.tum.de/1578813>

- Emeriti look back on decades of activities and experiences in the academic and scientific world. They have outstanding expertise and established numerous contacts and networks worldwide. With the "Senior Excellence Faculty", TUM prevents these valuable qualities from being lost for university and society.
- The TUM Emeriti of Excellence are active for the university without compromising opportunities for younger scientists.
- TUM Emeriti of Excellence are active in the promotion of young scientists and in the organization, coordination, networking and representation of science. They give support in establishing and consolidation of research facilities and serve as advisors for the University Presidium.
- With her „Senior Excellence Faculty“, TUM is a diversity lighthouse and generates additive values by appreciating all age groups.
- **Important for the success:** TUM Senior Excellence Faculty receives organizational support from two scientific assistants and has a budget for scientific travelling, events and publications.

**Thank you for your interest**

[www.emeriti-of-excellence.tum.de](http://www.emeriti-of-excellence.tum.de)