



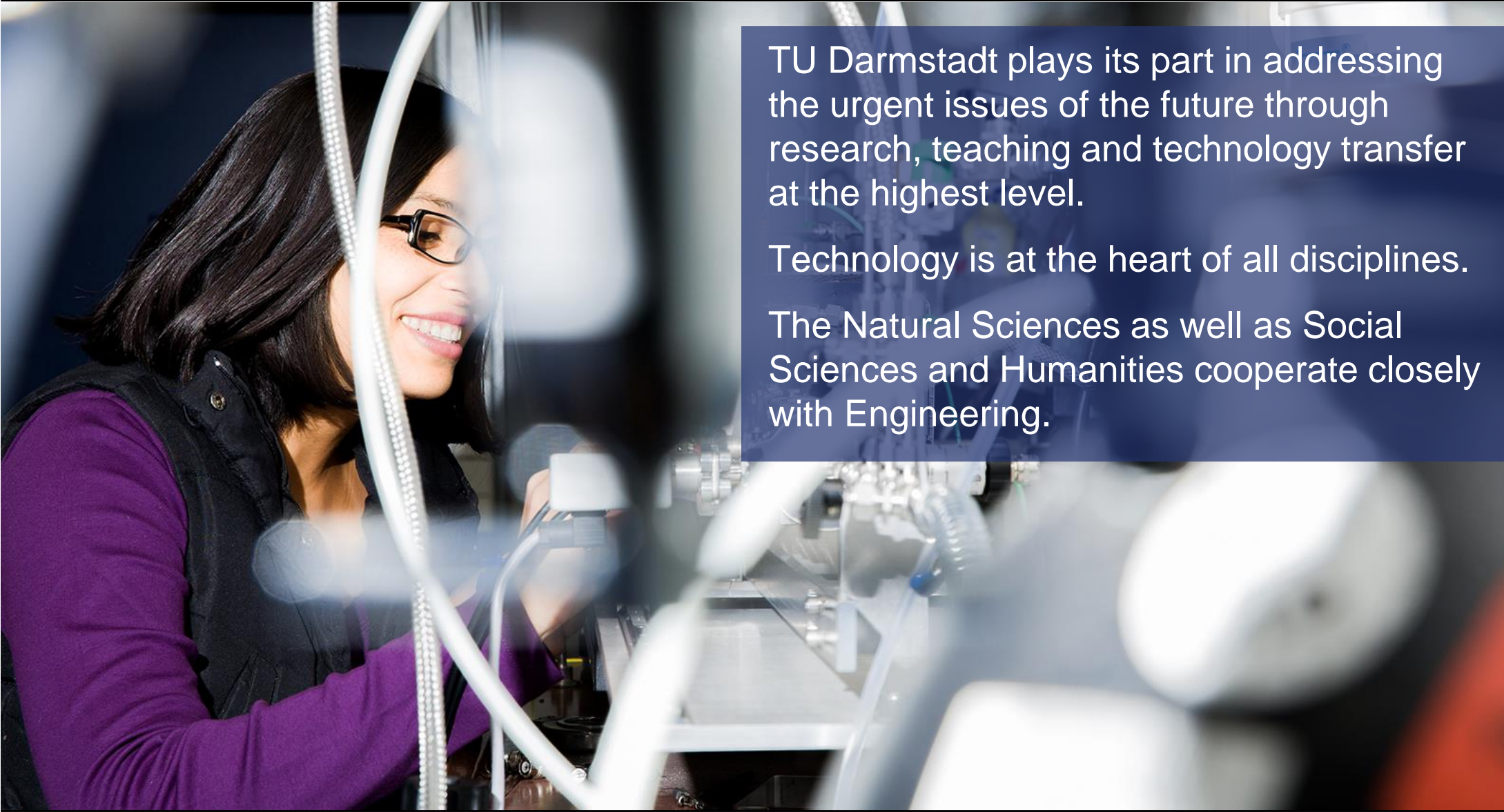
TECHNISCHE
UNIVERSITÄT
DARMSTADT

Prof. Hans Jürgen Prömel
President Technische Universität Darmstadt

Joint Research – Examples of good practice and future challenges

German-Taiwanese Higher Education Policy Forum 2016,
November, 29th 2016

Identity



TU Darmstadt plays its part in addressing the urgent issues of the future through research, teaching and technology transfer at the highest level.

Technology is at the heart of all disciplines.

The Natural Sciences as well as Social Sciences and Humanities cooperate closely with Engineering.

History

- 1836 Established as a higher vocational school and polytechnic institute
- 1877 Becomes an institute of technology
- 1913 Germany's first female graduate engineer
- 2005 Germany's first autonomous university



Departments

Engineering

Civil and Environmental Engineering
Architecture
Mechanical Engineering
Electrical Engineering and Information Technology
Computer Science

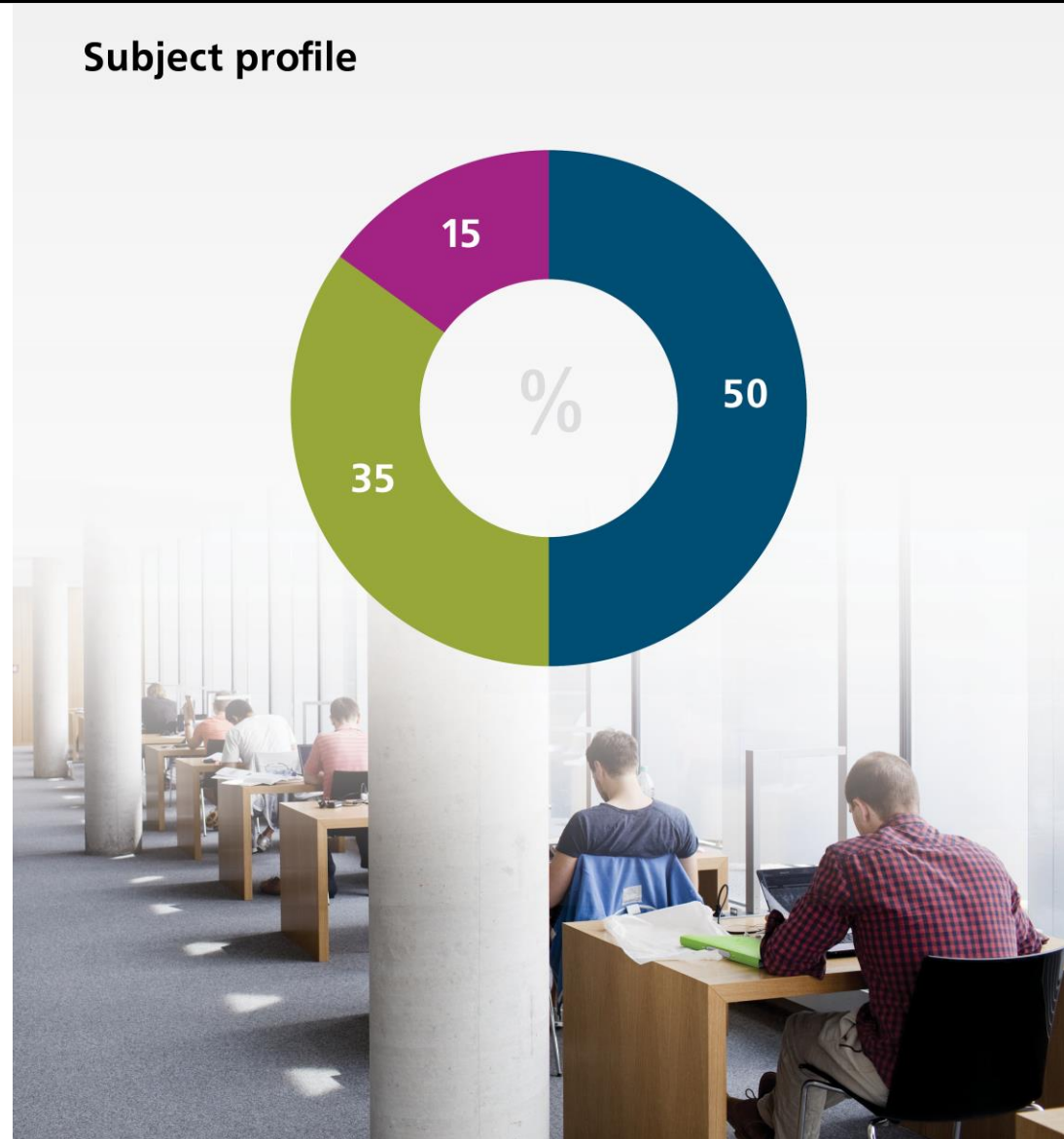
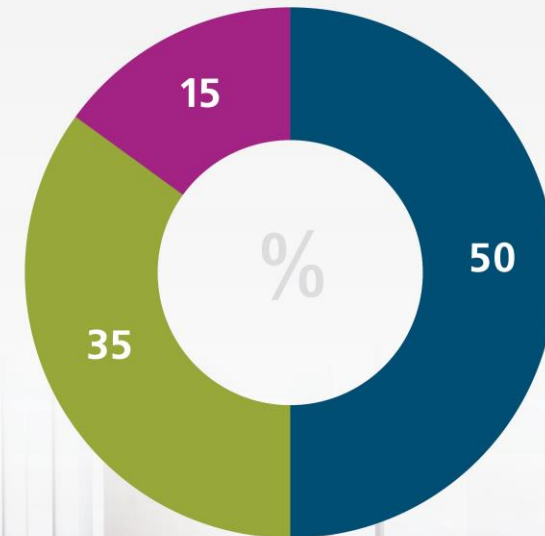
Natural Sciences

Mathematics
Physics
Chemistry
Biology
Materials and Earth Sciences

Humanities

Law and Economics
History and Social Sciences
Human Sciences

Subject profile



Highly interdisciplinary

Our profile areas:

Cybersecurity (CYSEC)

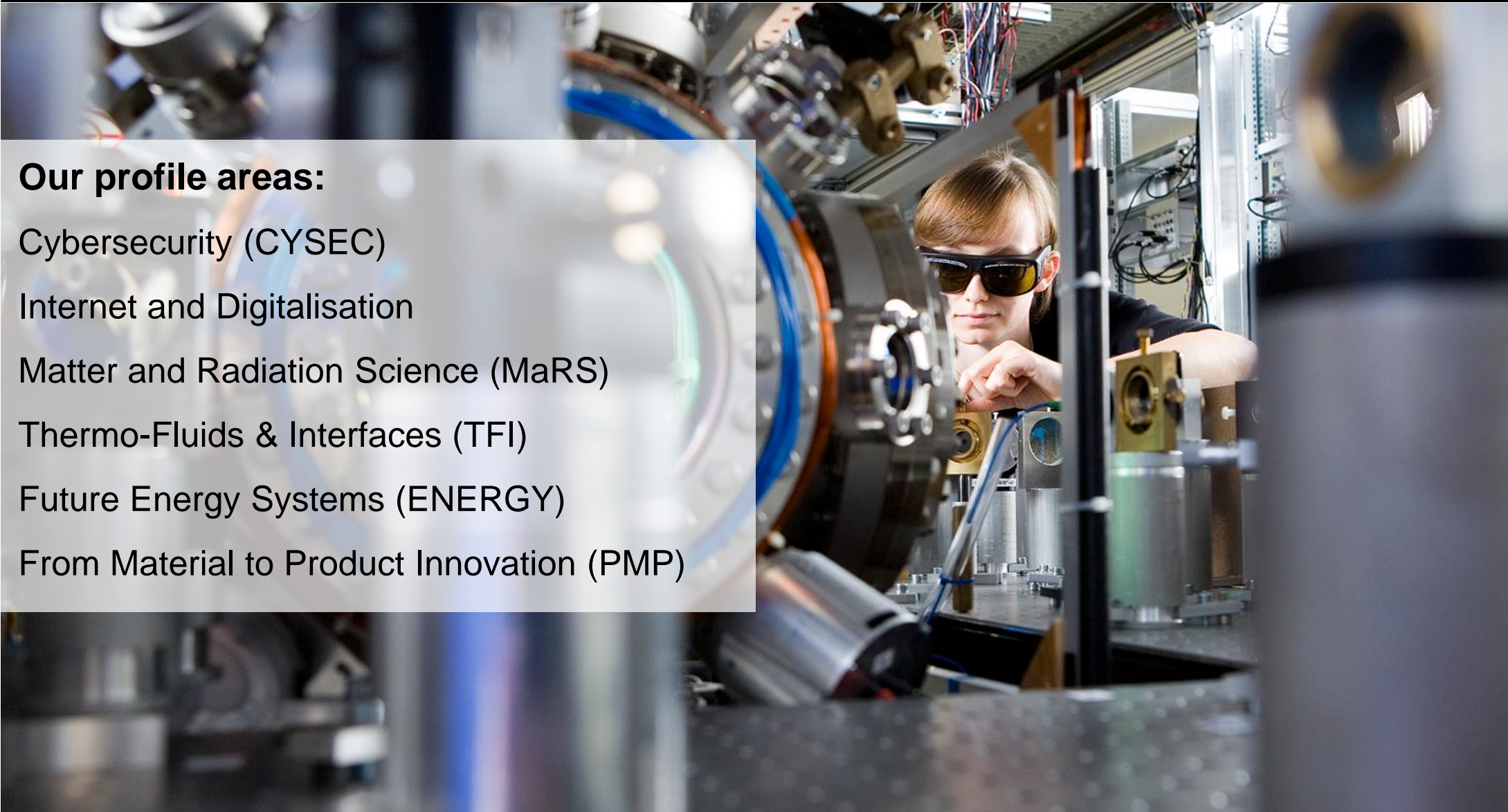
Internet and Digitalisation

Matter and Radiation Science (MaRS)

Thermo-Fluids & Interfaces (TFI)

Future Energy Systems (ENERGY)

From Material to Product Innovation (PMP)



TU Darmstadt's institutional internationalization



TU Darmstadt's world-wide network is based on international Strategic, University & Department Partnerships.

The different types of international partnerships allow us to further sharpen our profile and to enhance our performance in research and education.

History of partnership between TU Darmstadt and Taiwanese Universities



A first collaboration between TU Darmstadt and a Taiwanese university was established in 1987.

Followed by a TU9 delegation in autumn 2015, novel relationships were initiated which have resulted in new university collaborations.

Examples of research collaboration

FRAMEWORK COOPERATION AGREEMENT

between

Research Center for Information Technology Innovation
Academia Sinica, Taipei, Taiwan

and the

Profile Area Cybersecurity (CYSEC)
Technische Universität Darmstadt
Germany

TU Darmstadt and its Taiwanese partners collaborate in different research areas.

Joint research activities are initiated bottom up as well as top down.

2. SOURCE OF FUNDING

Cooperative activities under this agreement shall be subject to and dependent upon the financial capabilities and manpower available to the Parties. The activities to be done under this cooperation shall be financed by Parties from their respective funds in accordance with financial plan that must be agreed upon before each activity is initiated. All financial arrangements will require to be negotiated for each specific

Best practice: Cybersecurity



Best practice: Energy Science and Engineering



Researchers of TU Darmstadt and National Cheng Kung University collaborate in the field of Energy Science and Engineering.

Future Prospects

TU Darmstadt aims at broadening and deepening of research collaborations complemented by joint teaching projects and cooperation on an institutional level.

Thus, research collaborations of profile areas are the driving force for the implementation of strategic international collaborations.





Words of recommendation

"In my opinion, you definitely ought to go to Darmstadt. They have a good polytechnic school there."

Albert Einstein, 1919