Mission and Development Strategy of TU Wien
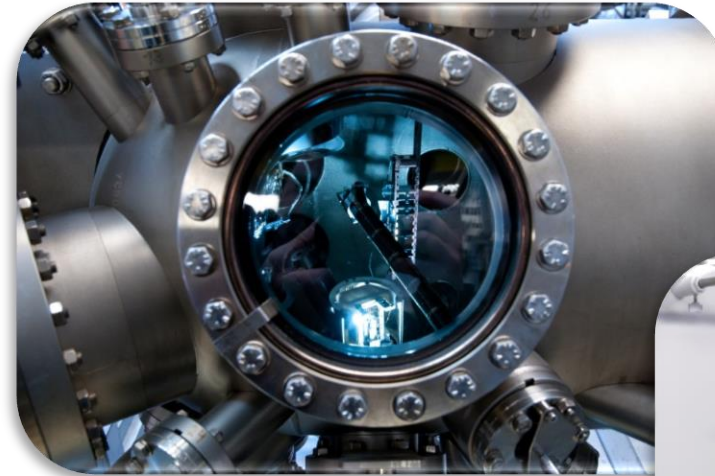
TU Wien, September 23th, 2022

Sabine Seidler, Rector

TU WIEN — TECHNISCHE UNIVERSITÄT WIEN

TU Wien – From Basic Research to Application
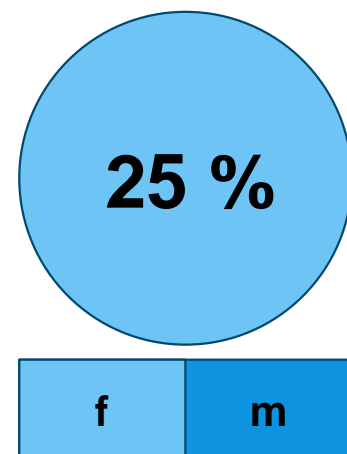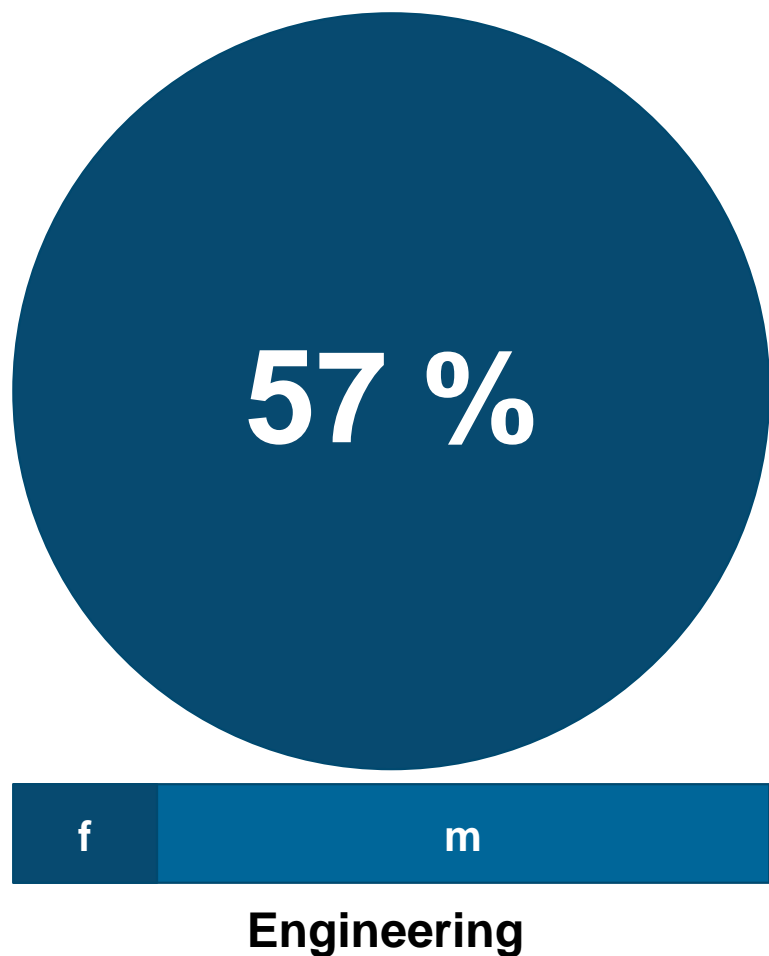

Year	Event
1815	Founded as „k.k. polytechnisches Institut"
1902	Promotion Right
1919	Admission of Women
1975	University of Technology/TU Wien

TU-Main Building: © TU Wien | Thomas Blazina

TU Wien: The Big Picture in Figures (2021)

Students — 25.951

Women — 7.785

International Students — 8.564

Graduates — 3.069

5.499 — Employees (Heads)

4.125 — Scientific Staff (Heads)

378 — Professors (Heads)

395 — Total Budget (Mio €)

KNOWLEGDE BALANCE 2021
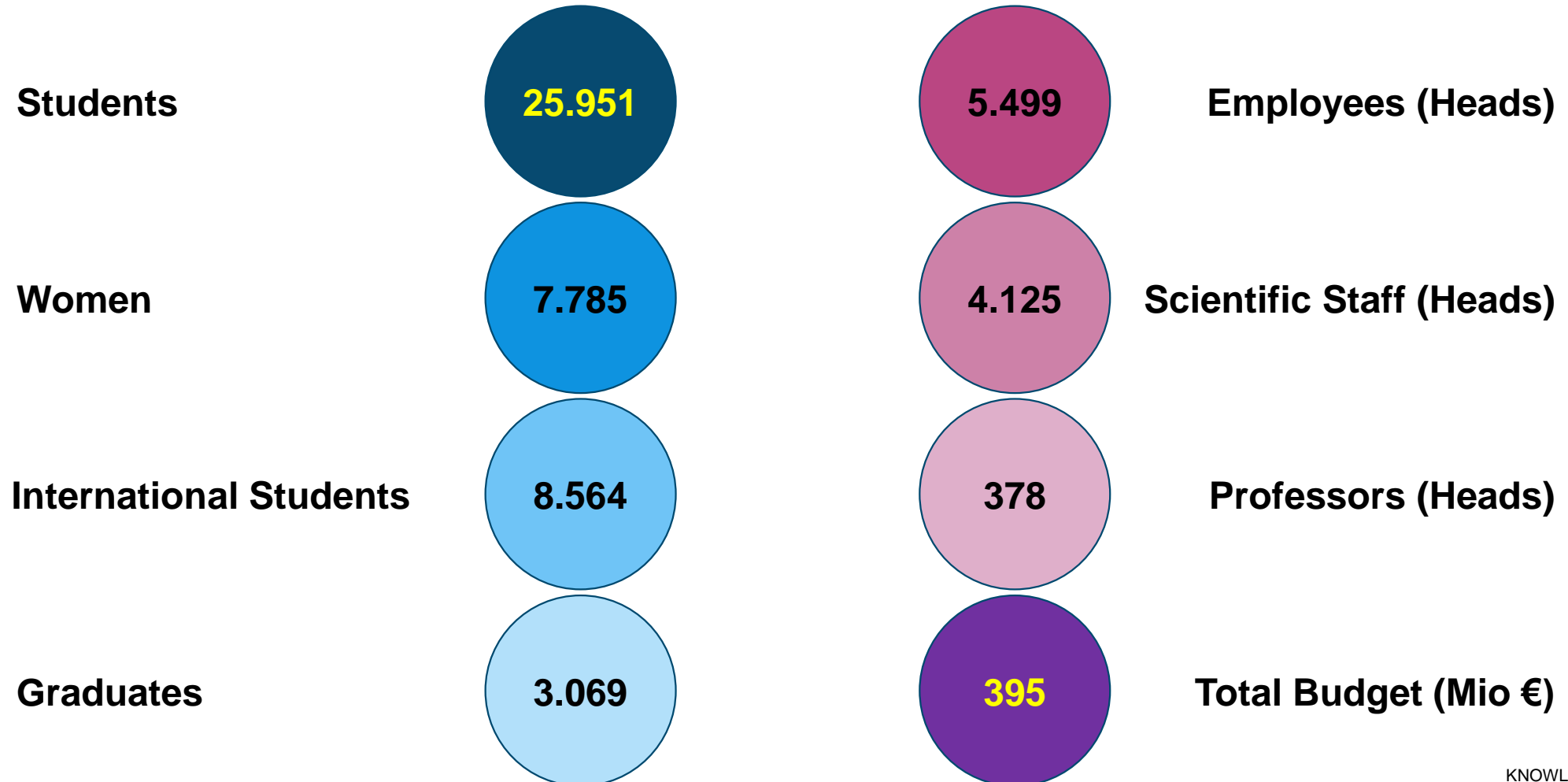
Students by Discipline (Academic Year 2020/21)

57 %

f	m

Engineering

25 %

f	m

Architecture and Spatial Planning

18 %

f	m
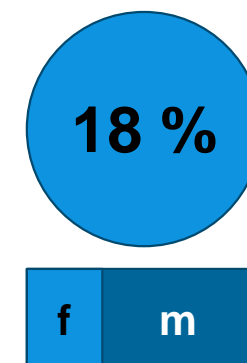
f   Female Students
m   Male Students

Natural Sciences

KNOWLEGDE BALANCE 2021

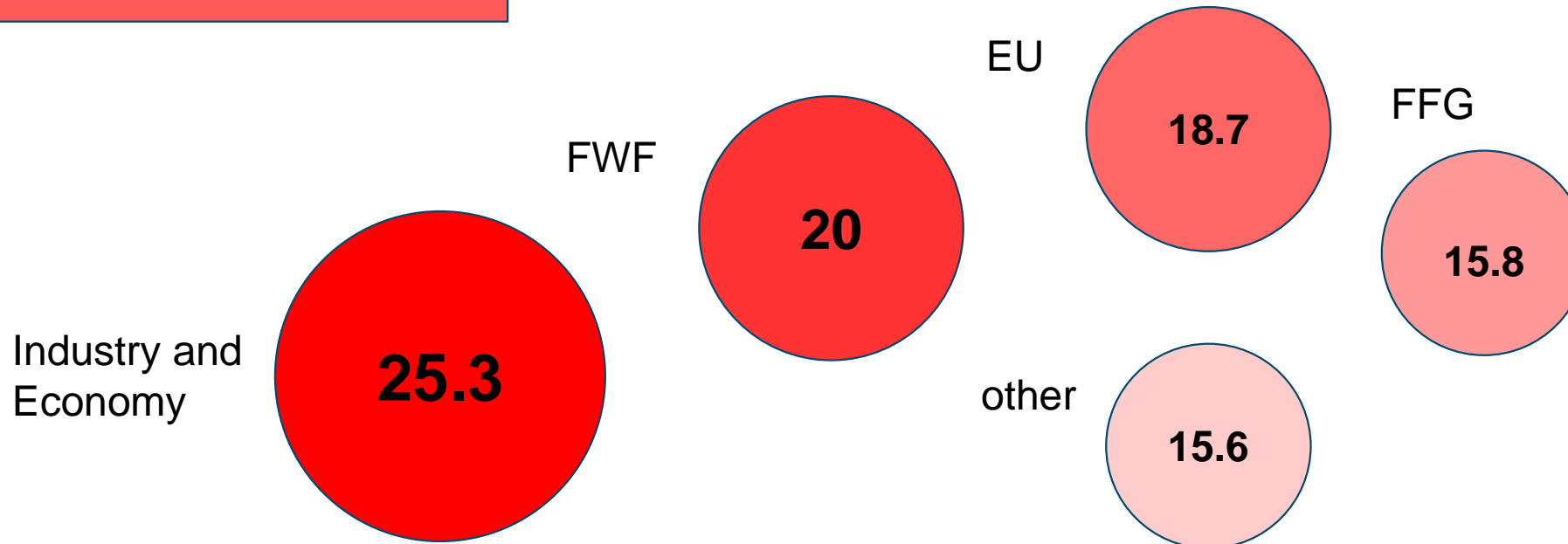# Source of Grants and Funding (2021)

Global Budget 304 Mio €

Project Budget 91 Mio €

} 395 Mio €

Industry and Economy — 25.3

FWF — 20

EU — 18.7

FFG — 15.8

other — 15.6

KNOWLEGDE BALANCE 2021

undary Conditions

Strategy of Research, Technology, Innovation
Research Pact
Strategy on the Social Dimension in Higher Education
Higher Education Mobility Strategy
etc.

Reporting (Knowledge Balance, ...)

Higher E... Act

Higher Education Plan

an University ...ment Plan (GUEP)

Development Plan

Performance Agreement

Agreement on Faculty Goals

University Act 2002

Universities of Applied Sciences (FH) Studies Act

FH Development and Financing Plan

Grant Agreements = Funding Agreements

Strategic Documents

Source: GUEP

What ist TU Wien for?

Technology for People: Developing Scientific Excellence and Imparting Comprehensive Competence

- Action Fields
  - Society
  - Research
  - Teaching
  - Maintaining and Developing Resources

Action Field „Society"

- transfer of knowledge and innovation
  - measures, goals
- lifelong learning
  - measures, goals
- training of young scientists and artists
  - measures, goals
- promotion of gender equality and diversity
  - measures, goals
- digital transformation
  - Center for Technology and Society
  - …
- opening up of philanthropic resources
  - measures, goals

Center for Technology and Society (CTS)
Encourage inter-and transdisciplinary cooperation

o inter-university and inter-faculty cooperation platform of

- TU Wien, University of Vienna, FH Campus Wien, the FH Technikum Wien

o promotion of cooperation, innovation and interconnected research

o What formats does CTS use?

- Society – exchange with society and business (8 project teams)
  - Ideas Competition | Reaction Videos | Best Practice | Symposium/Workshop
- Education – lifelong learning, (continuing) education (3 project teams)
  - CTS Student Awards | Continuing Education & Advice for Non-Academic Partners | Summer/Winter School | Symposium/Workshop
- Science – research, development, innovation (12 project teams)
  - Start-up funding for research and innovation projects to prepare applications to grant providers | Doctoral School | Think Tank | Symposium/Workshop

HTTPS://CTS.WIEN/

- What has the CTS already achieved so far?

  – strengthened the cooperation between universities of applied sciences and universities

  – enabled socio-technological research through kickstarters

  – created awareness of the necessity and importance of the interdisciplinary approach to innovation and research

  – first return-on-investments through successful follow-up funding

HTTPS://CTS.WIEN/

Action Field "Research an Development of Arts"

- positioning as research university
  - Digital Humanism
- promotion of young researchers
  - measures, goals
- cooperation with Austrian higher education and research institutions
  - measures, goals
- cooperation with business and governmental bodies
  - measures, goals
- increasing international competitiveness
  - measures, goals

Digital Humanism

- Vienna Manifesto on Digital Humanism (https://dighum.ec.tuwien.ac.at/dighum-manifesto/)
- bottom-up initiative
- driven by the computer scientists in the research focal area „Information and Communication Technology"
- supported by a growing group of internationally renowned experts
- basic approach: humans must be at the centre of technological developments
- current focus is on the areas of artificial intelligence and machine learning

Action Field „Teaching and Students"

- o raising the profile of the study programs
  - – Technology for People
- o improving study conditions
  - – measures, goals
- o increasing mobility and internationality
  - – measures, goals
- o application of innovative teaching and learning methods
  - – measures, goals

Technology for People

o the teaching of a sense of responsibility towards society is obligatory in all bachelor curricula to the extent of at least 3 ECTS

o Contents
  - technology assessment
  - technology genesis
  - science ethics
  - gender mainstreaming
  - diversity management

- transfer of knowledge that enables a critical basic understanding of technology and its role and effects in society

- implementation takes place either in at least one compulsory course or in the course of other subject-specific compulsory courses or in the context of a transferable skills course

Thank you for your attention!