

FWF

Der Wissenschaftsfonds.

TU Vienna



**FUNDING
THE WAY FORWARD**

The new Executive Board of the FWF

(since 1 September 2016)

FWF

Der Wissenschaftsfonds.



**Klement
Tockner**
President



**Artemis
Vakianis**
Executive Vice-President



**Gerlinde
Mautner**
Vice-President
Humanities and
Social Sciences



**Gregor
Weihs**
Vice-President
Natural Sciences
and Engineering



**Ellen
Zechner**
Vice-President
Biology and Medicine

The day today

- Brief presentations
- A lot of time for direct interaction
- An open panel discussion
- A relaxed get-together over snacks and drinks to round off the day

Austria in the European context

Input

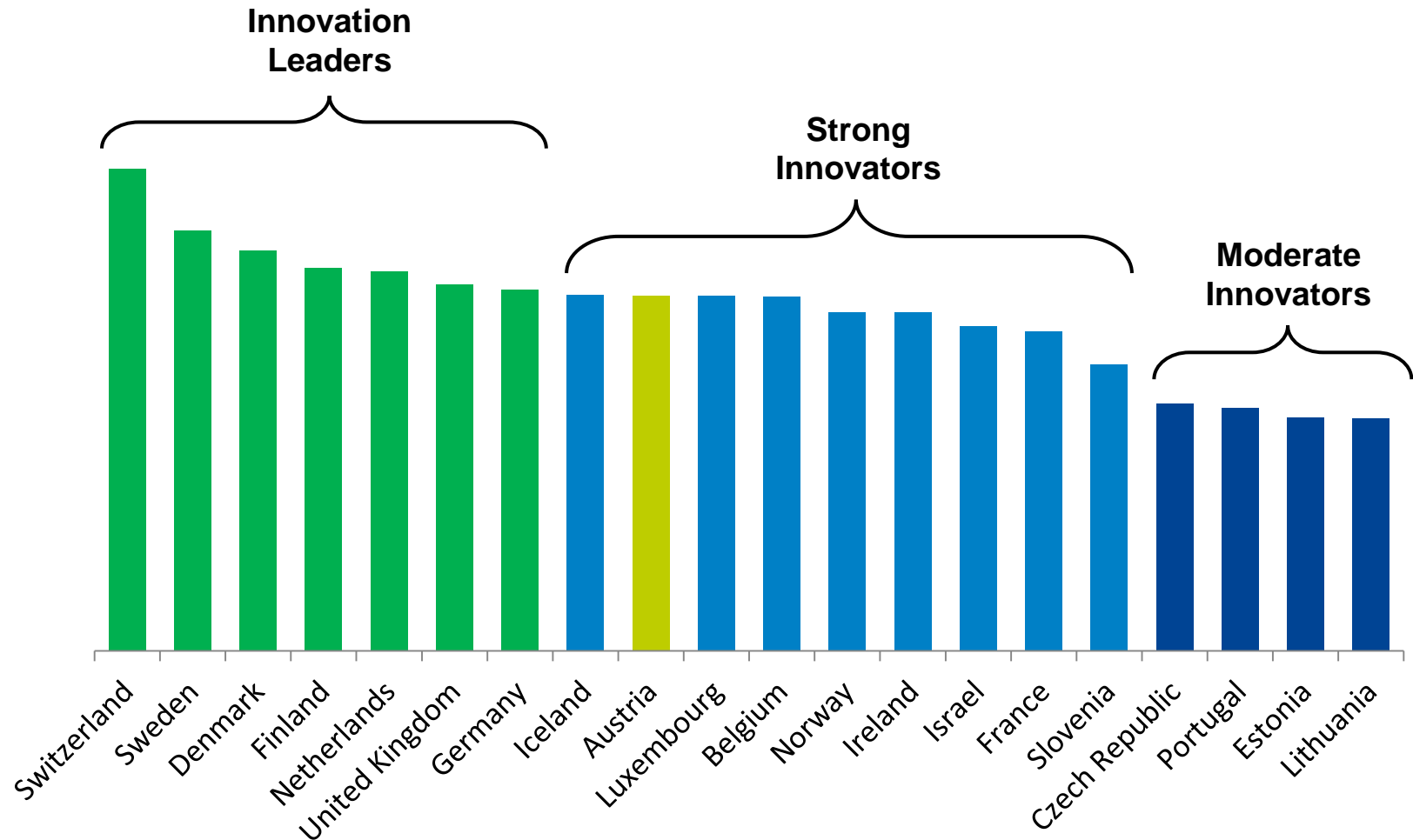
- **R&D rates: ranked 2nd**
(CH: 3rd, NL: 11th)
- **R&D for fundamental research: 19%**
(CH: 30%, NL: 29%)
- **Per-capita budget 2016 for the FWF: €22**
(CH: €99, NL: €54)
- **Third-party university funding: 25% provided through the FWF**

Output

- **ERC grants per capita: ranked 7th** (CH: 1st, NL: 2nd)
- **Scientific citations: ranked 10th** (CH: 1st, NL: 5th)
- **European Innovation Scoreboard: ranked 9th**
(CH: 1st, NL: 5th)
- **Top 100 universities in Europe: One Austrian university among them, ranked 74th** (CH: 4th, NL: 17th)

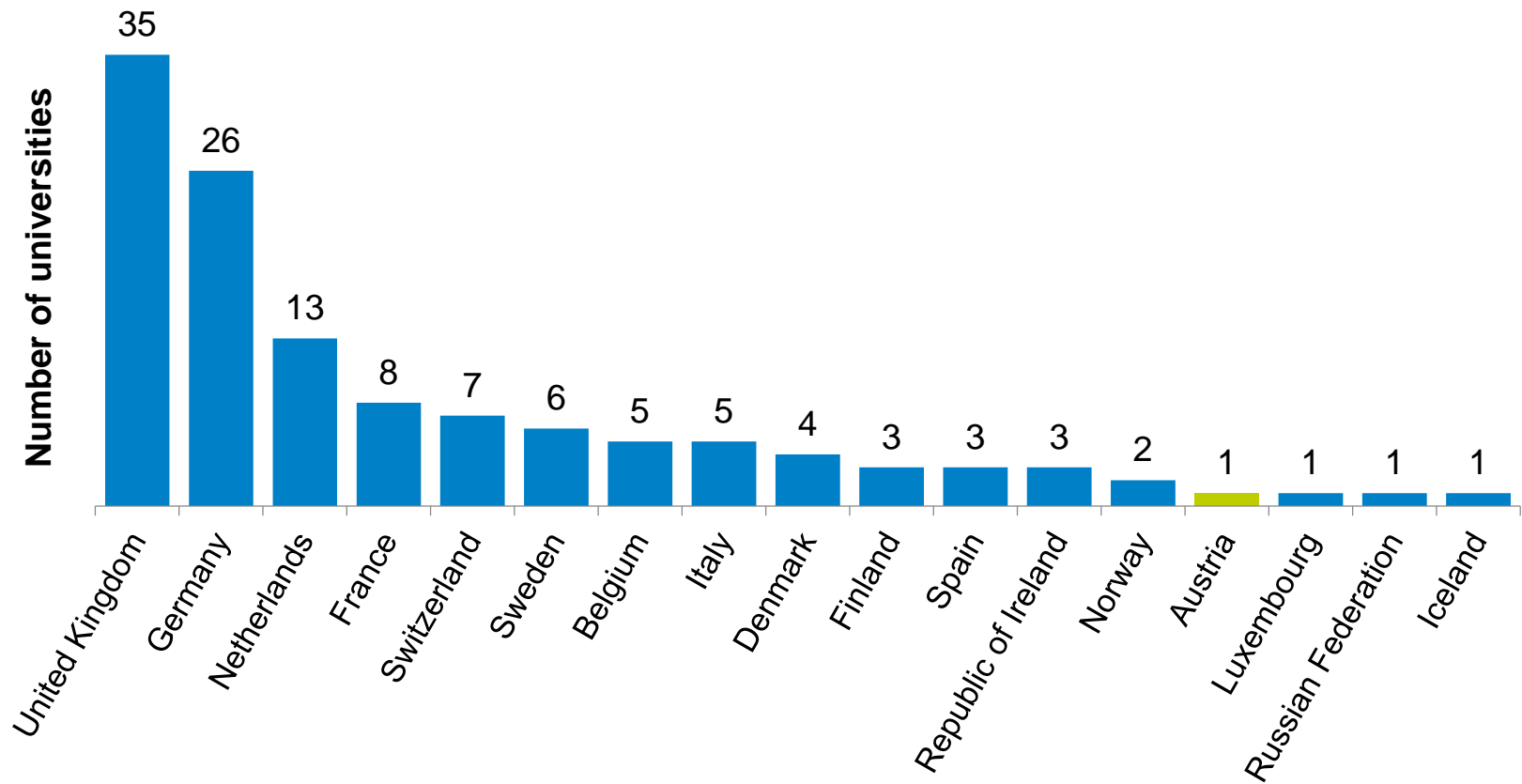
Sources: OECD Main Science and Technology Indicators Database; *Strategische Vorhaben 2017–2020*, FWF (2016); BMWFW-Reporting “uni:data” (Table 7.6); Times Higher Education World University Rankings; *Jahresbericht 2015*, FWF (2016, pp. 40f); European Innovation Scoreboard

European Innovation Scoreboard 2017



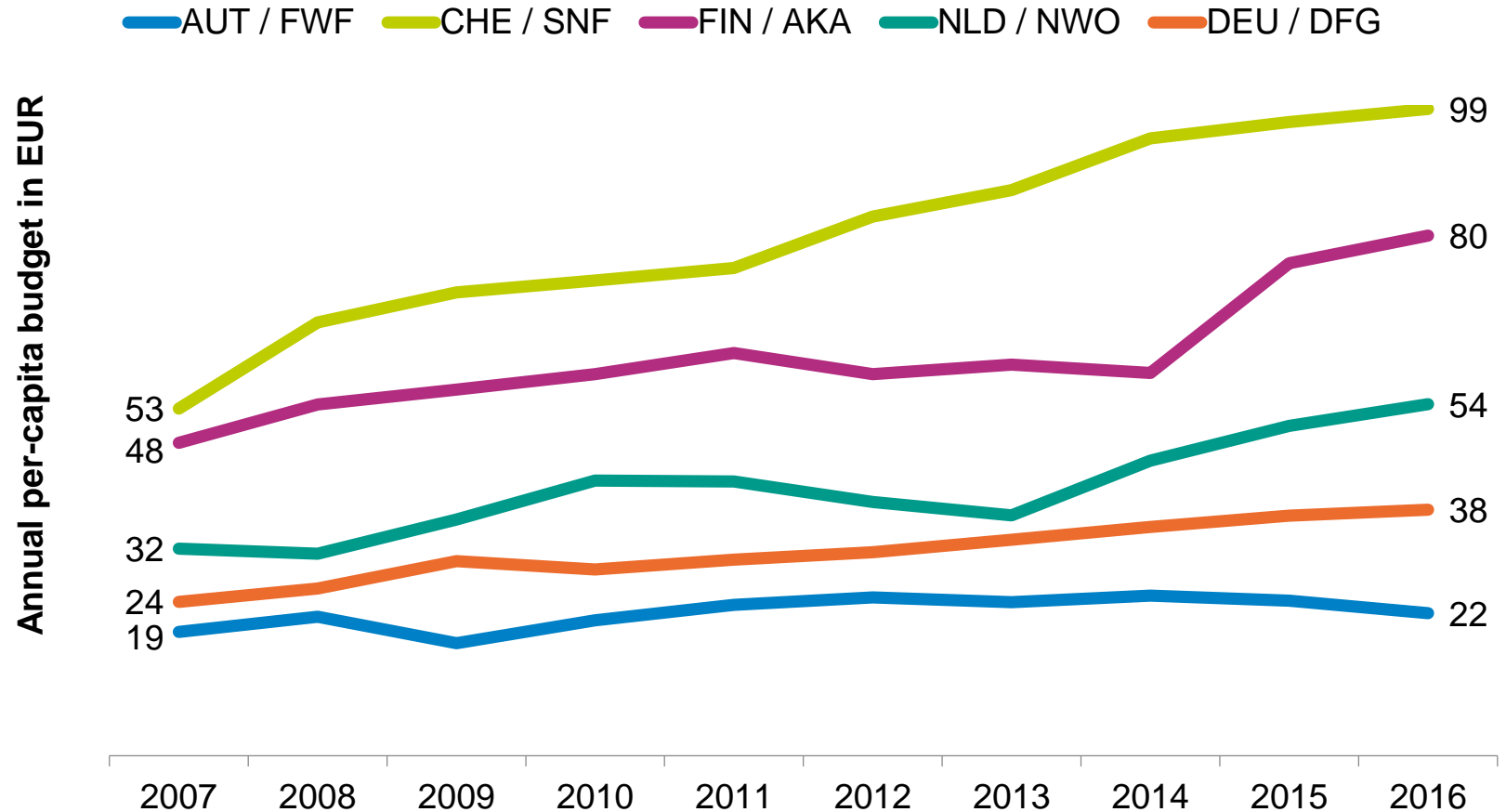
Sources: European Innovation Scoreboard 2017, http://ec.europa.eu/growth/industry/innovation/facts-figures/scoreboards_de

Top 100 universities in Europe



Sources: Times Higher Education World University Rankings, 2016/17 www.timeshighereducation.com/

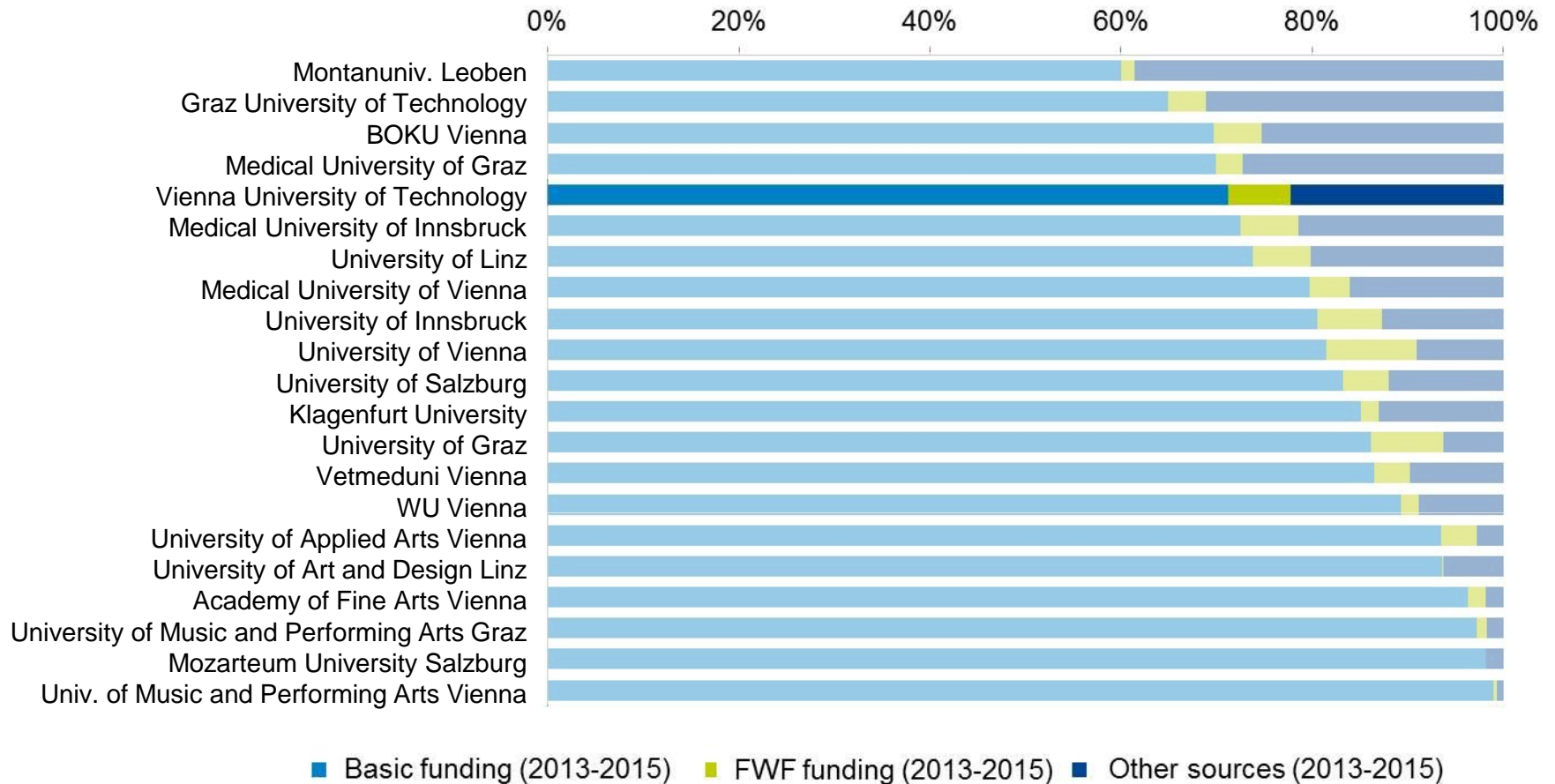
Budgets of funding organisations



Source: FWF (2017)

Funding sources of Austrian universities

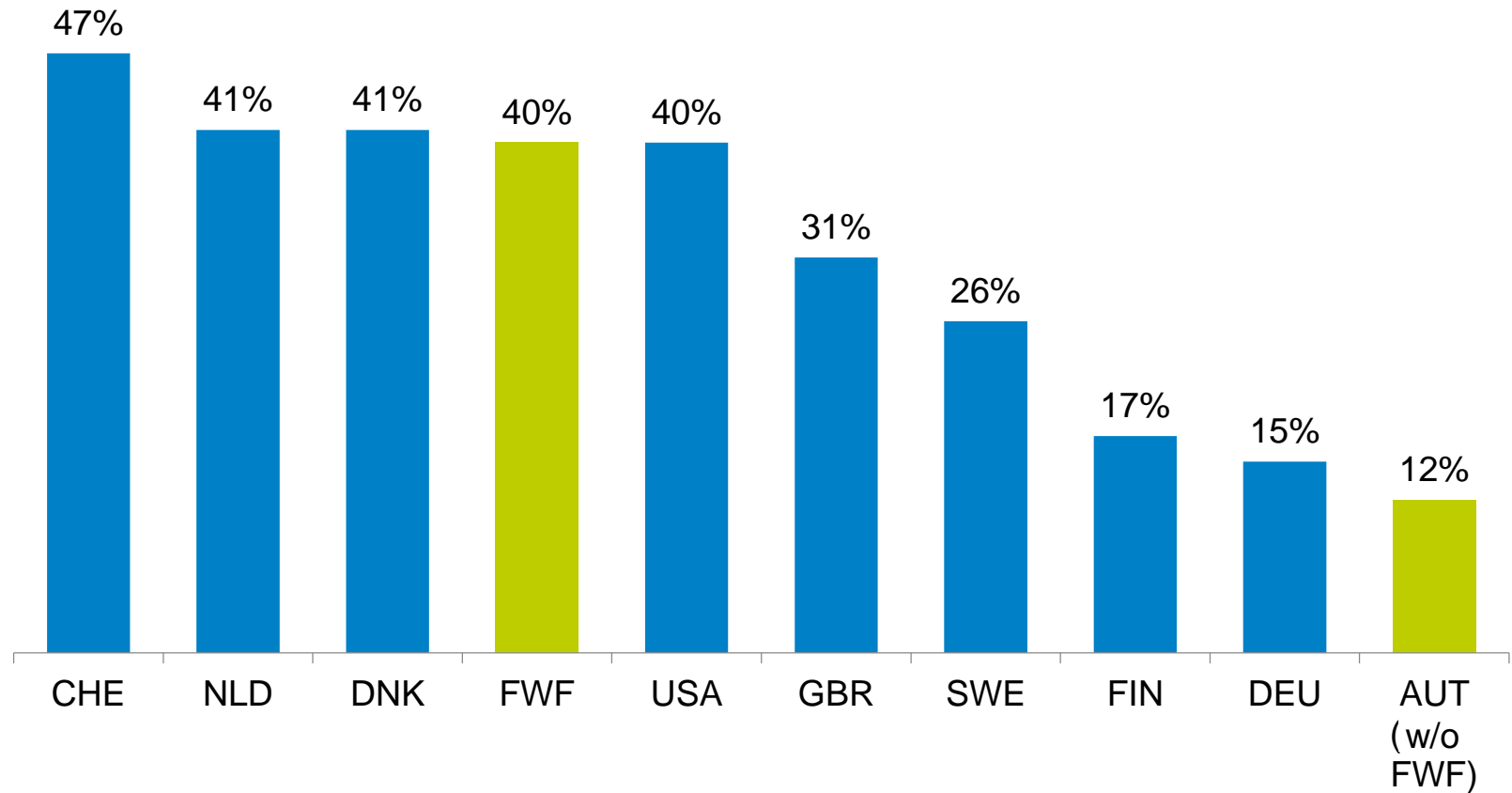
Income 2013-2015



Sources: Federal Ministry of Science, Research and Economy (uni:data), performance agreements concluded with universities

Citations above world average

Mean normalized citation score



Source: van Wijk, E., & Costas-Comesaña, R. (2012): Bibliometric Study of FWF Austrian Science Fund 2001-2010/11.
<https://doi.org/10.5281/zenodo.17851>

Strategic Plans 2017-2020

FUNDING THE WAY FORWARD

Klement Tockner
FWF President

1. Strengthening excellence by increasing competitive funds and other initiatives

- A one-off **increase in the basic budget** of €60 million and a predictable annual increase (as recommended by RFTE)
- Introducing internationally competitive **overhead costs** of 25%
- **Establishing innovative funding formats**
 - **1000 Ideas Programme** – start-ups for fundamentally new and risk-taking ideas
 - **“Future-track” professorships** – 200 professorships in the next eight years
 - **Synthesis networks** – collation, processing, evaluation and opening up of big, interdisciplinary data
- Development of an **Excellence Programme for Austria**, in cooperation with Uniko and the Austrian Science Council

2. Quality control and efficient management

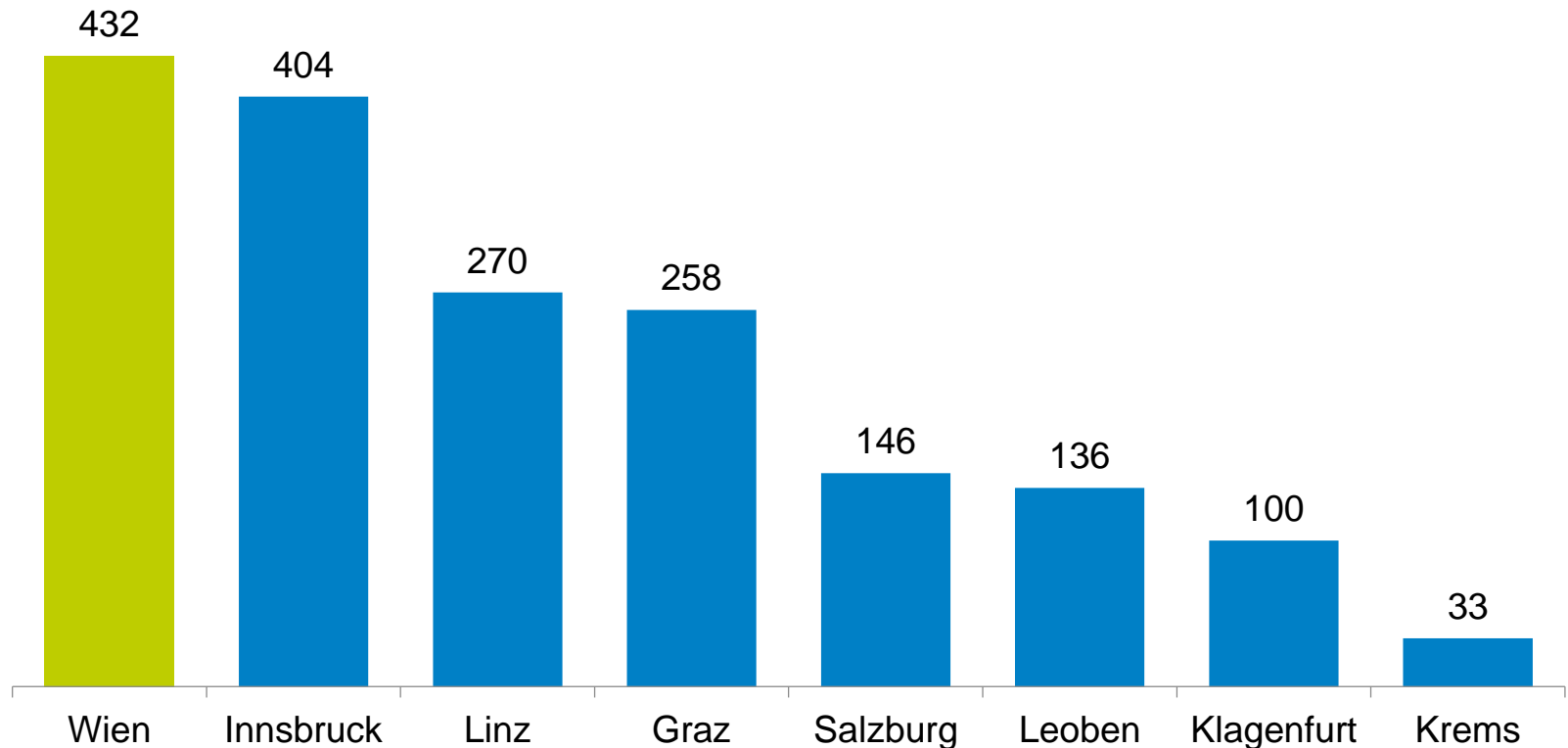
- **Further development of procedures and programmes**, e.g. through international evaluations and coordination with other funding organisations
- **Further development of an “open science” culture** through initiatives such as Open Access, Open Research Data, Citizen Science, Open Government
- **Efficient management**, implementing recent Audit Office recommendations and the new “funding-via-institutions” scheme (“PROFI”); improving quality management and internal auditing systems

3. Opening up research through cooperation

- Establishment of an **alliance of Austrian research organisations** for the further development of the research system
- Strengthening funding potential through **new foundations**
- Extending the “**matching funds**” **model** to all federal provinces
- Establishing a **research partnership** with other funding organisations, including LBG, CDG and FFG in order to develop joint funding formats covering fundamental research and socially relevant applications

Austrian universities and the FWF

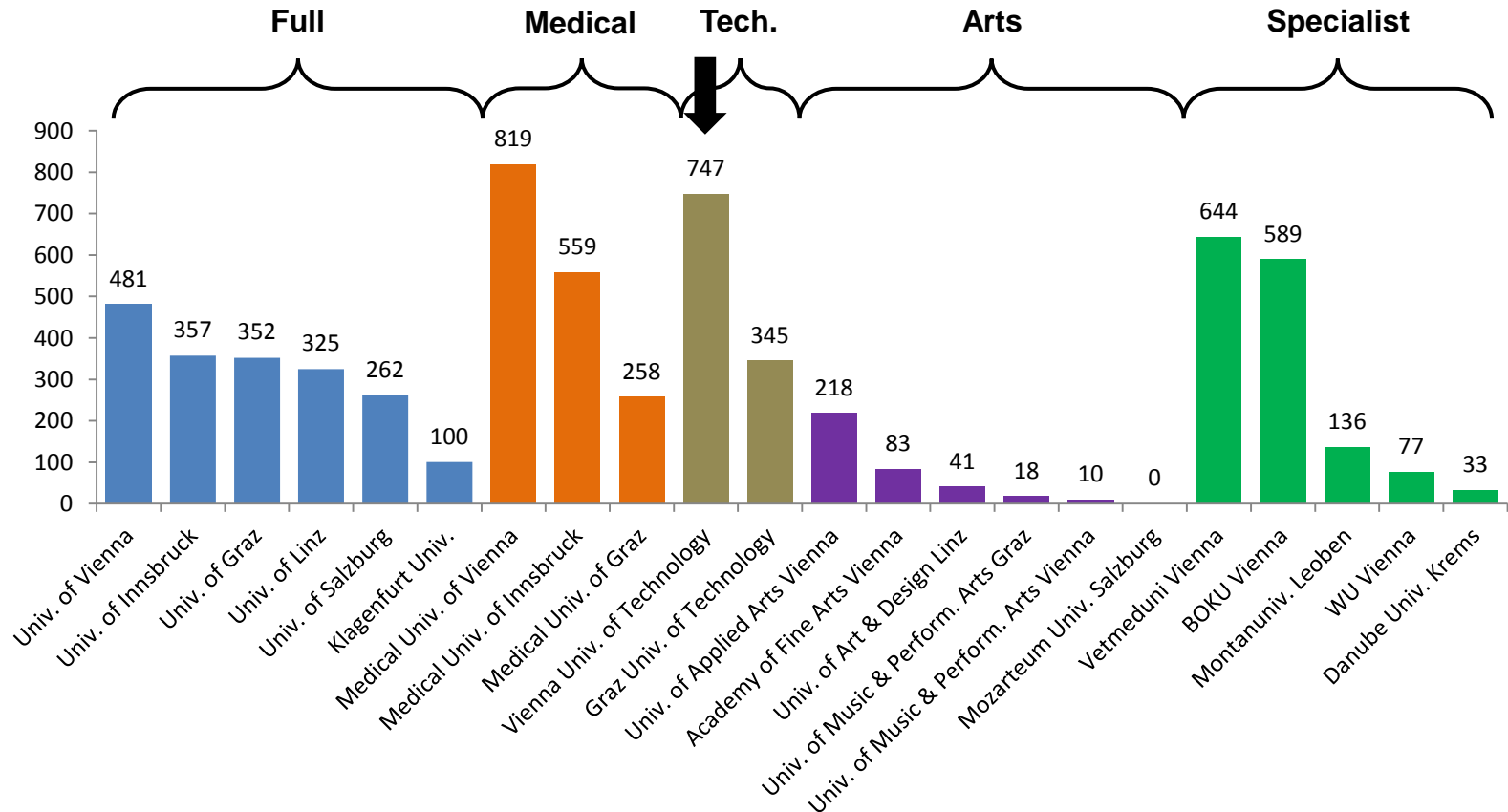
Research funding approved per full professor (€'000)
Comparison with other Austrian university cities (2012-2016)



Only covers universities; background data are location-specific overall values without differentiation according to university. Salzburg includes the Mozarteum University; without the Mozarteum, Salzburg comes between Linz and Graz.

Austrian universities and the FWF

Research funding approved per full professor (€'000)
Comparison with other Austrian universities (2012-2016)



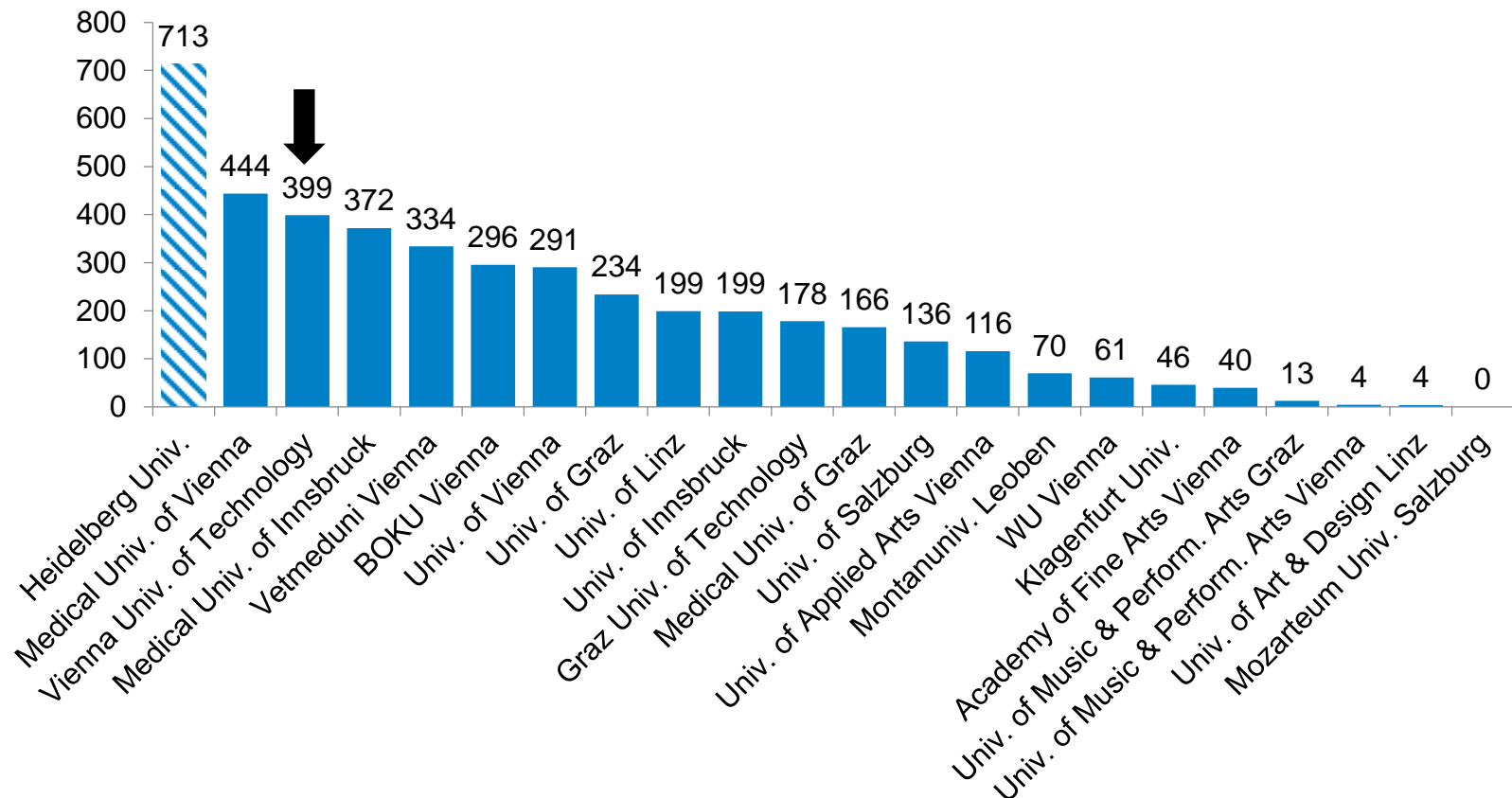
Total FWF grants approved 2012–2016 per professor (average number of professors 2012–2016, reporting dates every 31 Dec.).

Source of FWF funding: FWF-internal data; “fractional counting” for each research institution; universities only.

Source for number of professors: BMWFW [Federal Ministry of Science, Research and Economy] “uni:data” (“Personnel at Universities – Heads” – “Professors”).

Austrian universities and the FWF

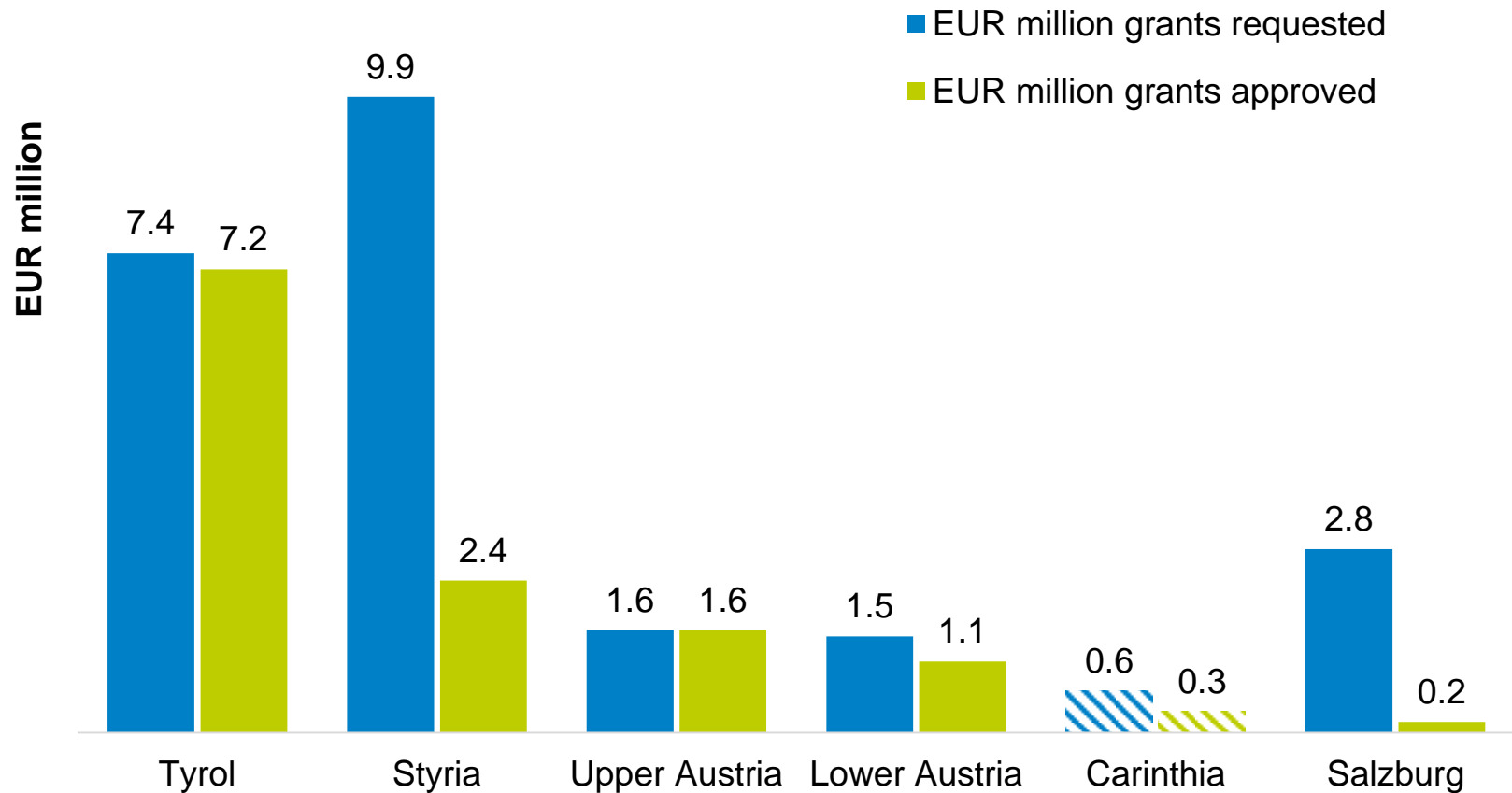
Research funding approved per full professor (€'000)
Comparison with other Austrian universities
and a German university (2013-2015)



Austrian Univ. Data according to BMWFW “uni:data” (FWF funds received). Univ. Heidelberg: All data according to annual reports 2013–2015: “Professors (W3, C4, C3 and AT)”, “Third-Party funding DFG”, excluding medical faculties.

Austrian universities and the FWF

Funding as part of the “Matching Funds” model
2014-2016



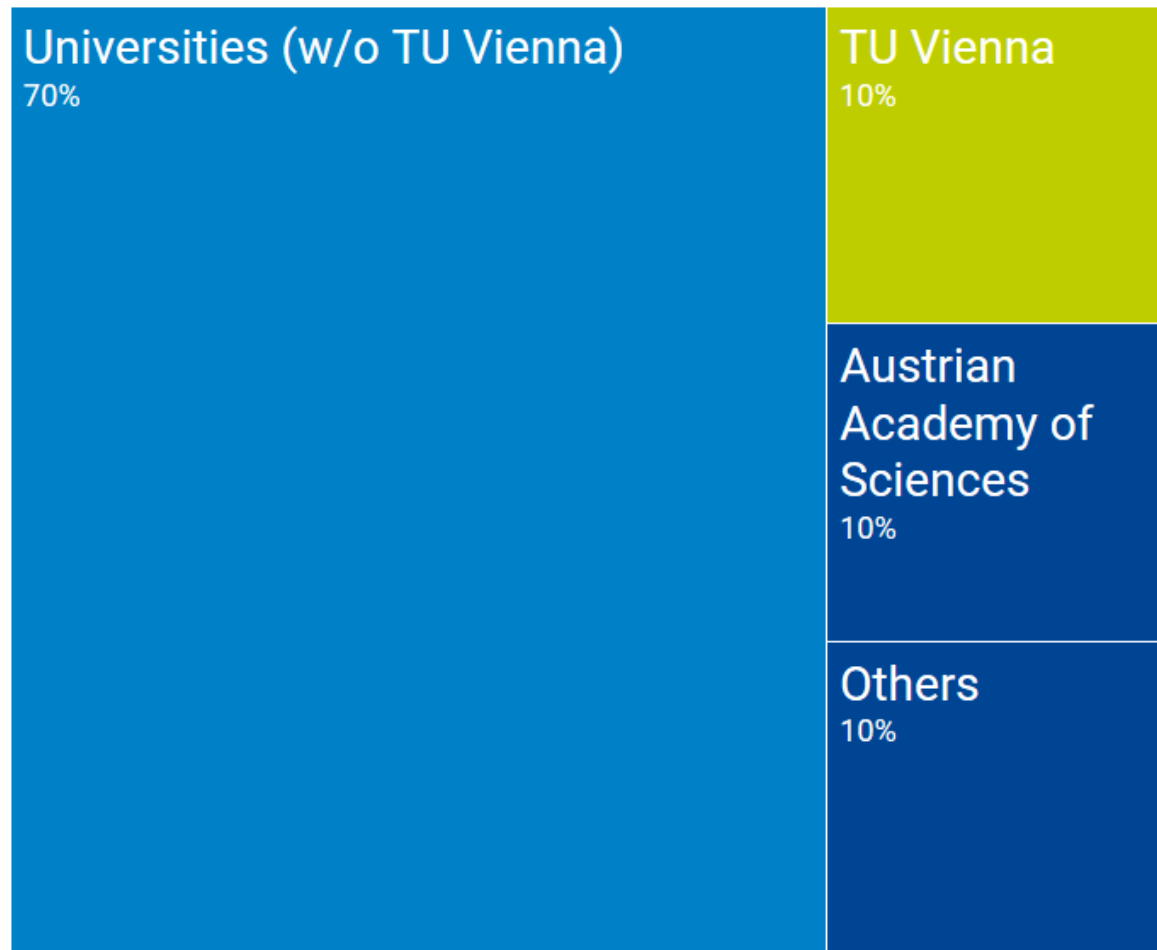
TU Vienna and the FWF

2012-2016

- **1,132 applications**
- **328 projects approved**
- **€105.2m in total funding**
- **486 project staff, 291 of whom are doctoral students**
- **In average, 11% of the annual FWF approval amount**
- **Selection of funded projects (2012-2016):**
 - 143 Stand-alone projects**
 - 55 International Joint Projects**
 - 26 Schrödinger fellowships**
 - 6 START-Prizes**
 - 1 Wittgenstein-Award**

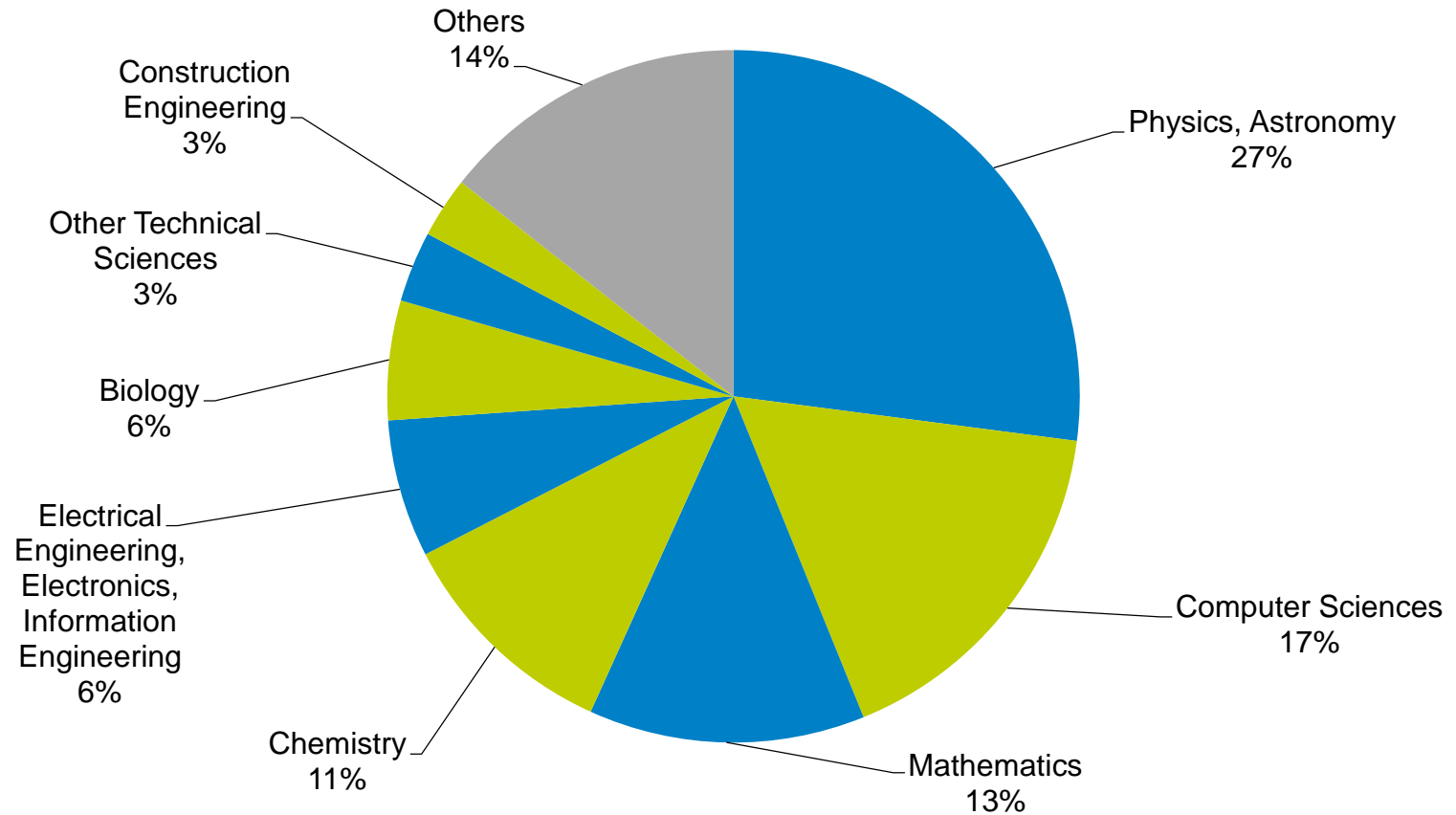
TU Vienna and the FWF

2012-2016



TU Vienna and the FWF

Subject areas (applications 2012-2016)



TU Vienna and the FWF

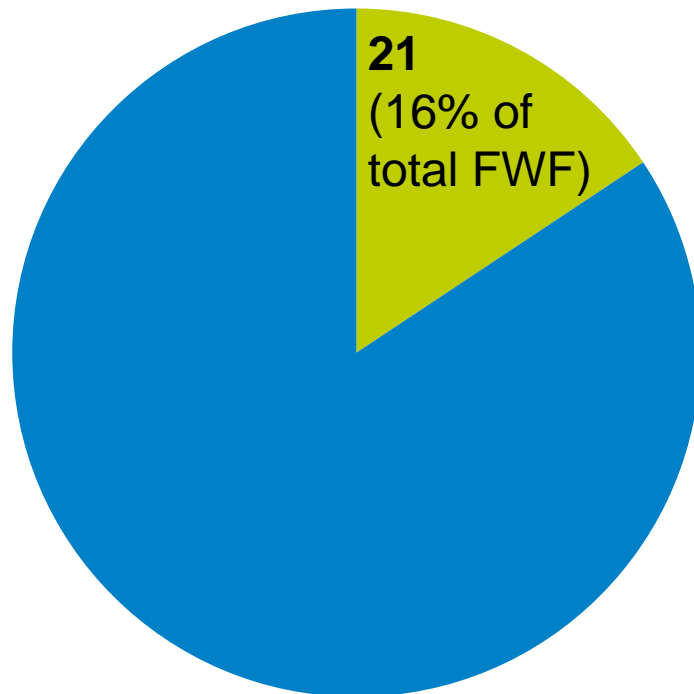
START Programme and Wittgenstein Award 2012-2017

	Year	Project lead	Institute
Wittgenstein	2013	Ulrike DIEBOLD	Institute of Applied Physics
START	2012	Franz SCHUSTER	Institute of Discrete Mathematics and Geometry
START	2012	Jürgen HAUER	Photonics Institute
START	2013	Clemens HEITZINGER	Institute of Analysis and Scientific Computing
START	2013	Stefan WOLTRAN	Institute of Information Systems
START	2015	Gareth PARKINSON	Institute of Applied Physics
START	2015	Ivona BRANDIC	Institute of Software Technology and Interactive Systems
START	2017	Miriam UNTERLASS	Institute of Materials Chemistry

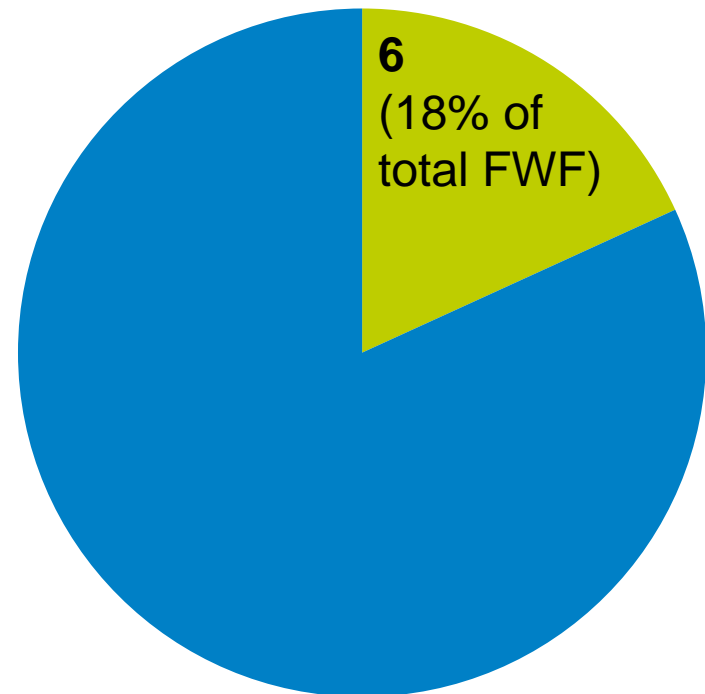
TU Vienna and the FWF

START Programme and Wittgenstein Award
1996-2017

START



Wittgenstein



TU Vienna and the FWF

SFBs and DKs 2012-2016

	Year	Project lead	Institute
DK	2012	Ansgar JÜNGEL	Institute of Analysis and Scientific Computing
SFB	2012	Gottfried STRASSER	Institute of Solid State Electronics
DK	2013	Anton REBHAN	Institute of Theoretical Physics
DK	2013	Helmut VEITH since 2017: Georg GOTTLOB	Institute of Information Systems Institute of Information Systems
DK	2013	Günter BLÖSCHL	Institute of Hydraulic Engineering and Water Resources Management
SFB	2014	Günther RUPPRECHTER	Institute of Materials Chemistry
DK	2015	Ulrich SCHUBERT since 2016: Andrei PIMENOV	Institute of Materials Chemistry Institute of Solid State Physics

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Thank you for your attention!



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