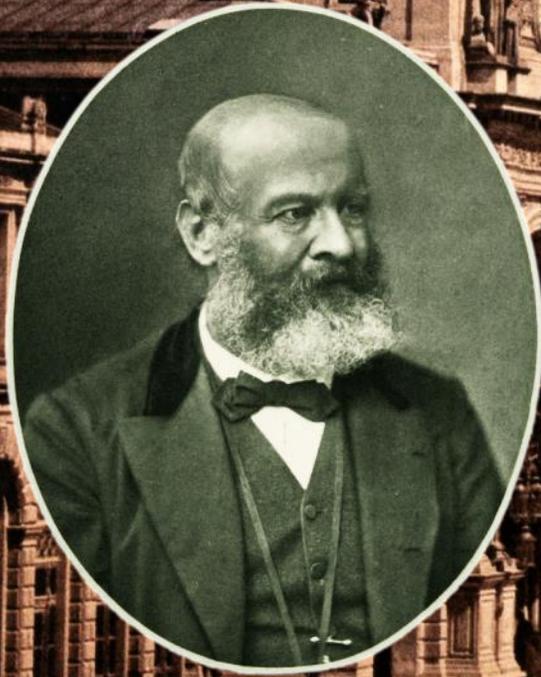


Internationalisation of Universities

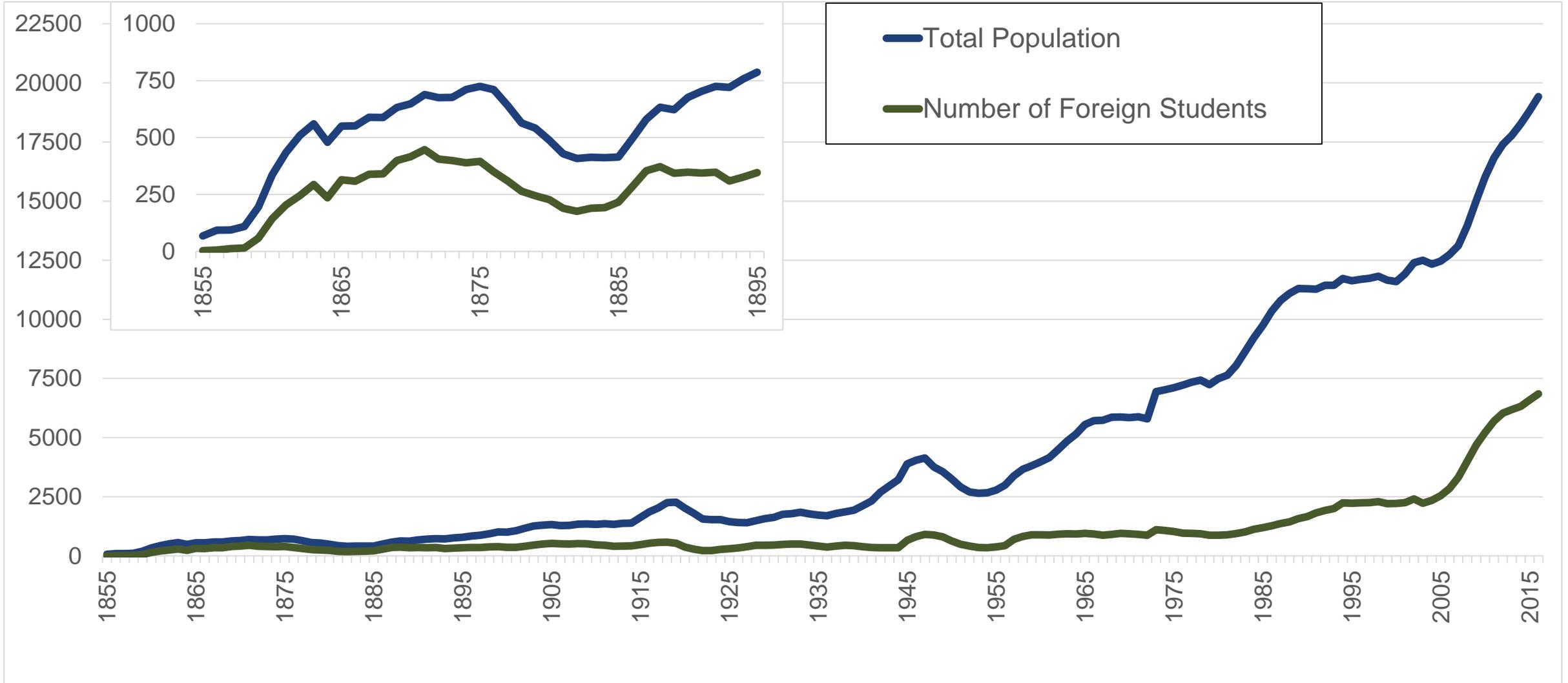
**36th Conference of
Rectors and Presidents of European Universities of Technology**
16 September 2017 | Technische Universität Graz
Prof. Dr. Sarah Springman, Rector, ETH Zürich





ETH Zürich: founded 1855 to train Swiss specialists!

Internationalisation: Origin of Students



Internationalisation in the first decades



Source: Bierzeitung des akademischen Ingenieurvereins

Winter Semester 1906/1907

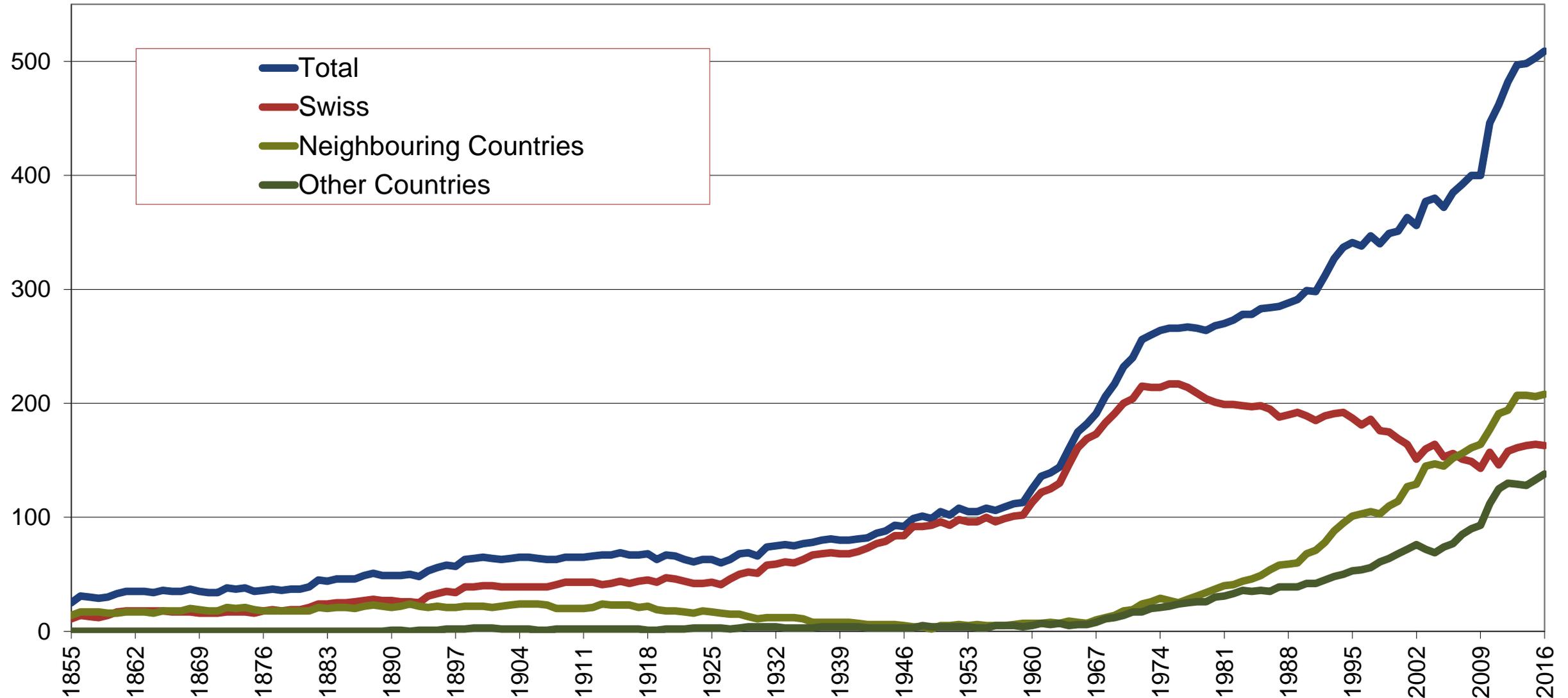
Total population: 1,281 students

Foreign students: 35%

Most prominent countries:

- Austria-Hungary: 8%
- Russia: 7%
- Italy: 5%
- France: 4%
- Germany: 3%
- Netherlands: 3%

Internationalisation: Origin of Professors



Key statistics (2016)



		Percentage international
Students (Headcount)	20,331	34%
of which Bachelor students	9,364	13%
of which Master students	5,836	37%
of which Doctoral students	4,014	70%
Professors (Headcount)	503	67%
Scientific staff (full-time equivalents)	5,829	70%
Administrative and infrastructure staff (fte)	2,553	25%

Internationalisation at Different Levels

Doctorate

70% International doctoral students:

67%	EU
18%	Asia
8%	America
6%	Rest of Europe
1%	Rest of the world

Master

37% International Master students:*

64%	EU
21%	Asia
7%	Rest of Europe
6%	America
2%	Rest of the world

Bachelor

13% International Bachelor students

***Most prominent countries:**
Germany, China, Italy,
Greece, Austria, France

ETH Zürich's Mission and Internationalisation

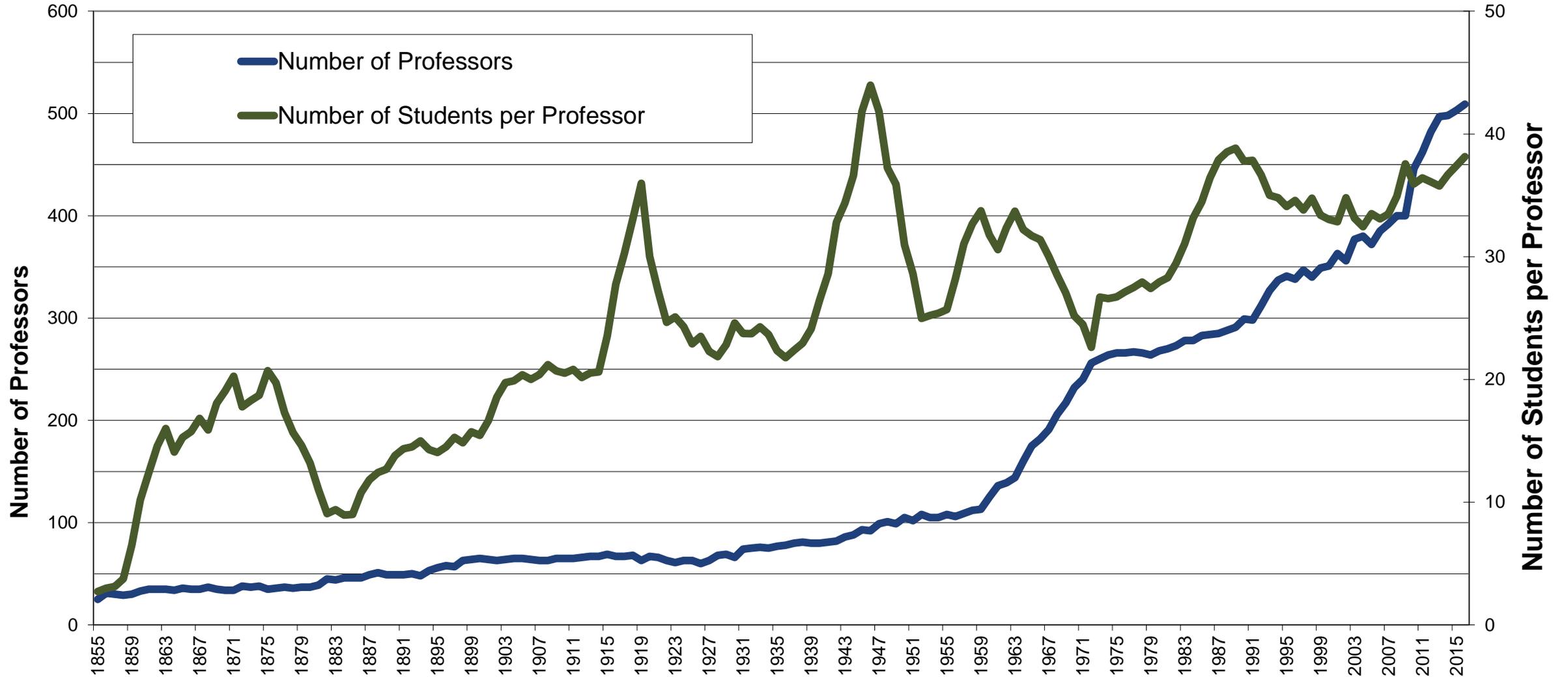
Mission

- Educating Swiss high-school graduates
- Providing Switzerland with highly qualified specialists

Challenges

- Growing student numbers on all levels
- Appropriate supervision (Staff-student ratio)

ETH Zürich's Growth



Dilemmas: Admission and Selection

Doctorate

- Research
- Highly internationalised population

- Grade based & personal selection for internal candidates
- Quality based selection for foreign candidates

Master

- Teaching in English
- More diverse student population

- Automatic admission of Swiss candidates in consecutive programs
- Quality based admission of international candidates

Bachelor

- Fundamental Knowledge in basic sciences
- Teaching in German → mainly Swiss students

- Swiss high school graduates admitted without restriction
- But: highly selective and demanding first year

Dilemmas: Recruiting

Doctorate

- Research
- Highly internationalised population

- Hard to get/retain Swiss/ETH(-trained) candidates?

Master

- Teaching in English
- More diverse student population

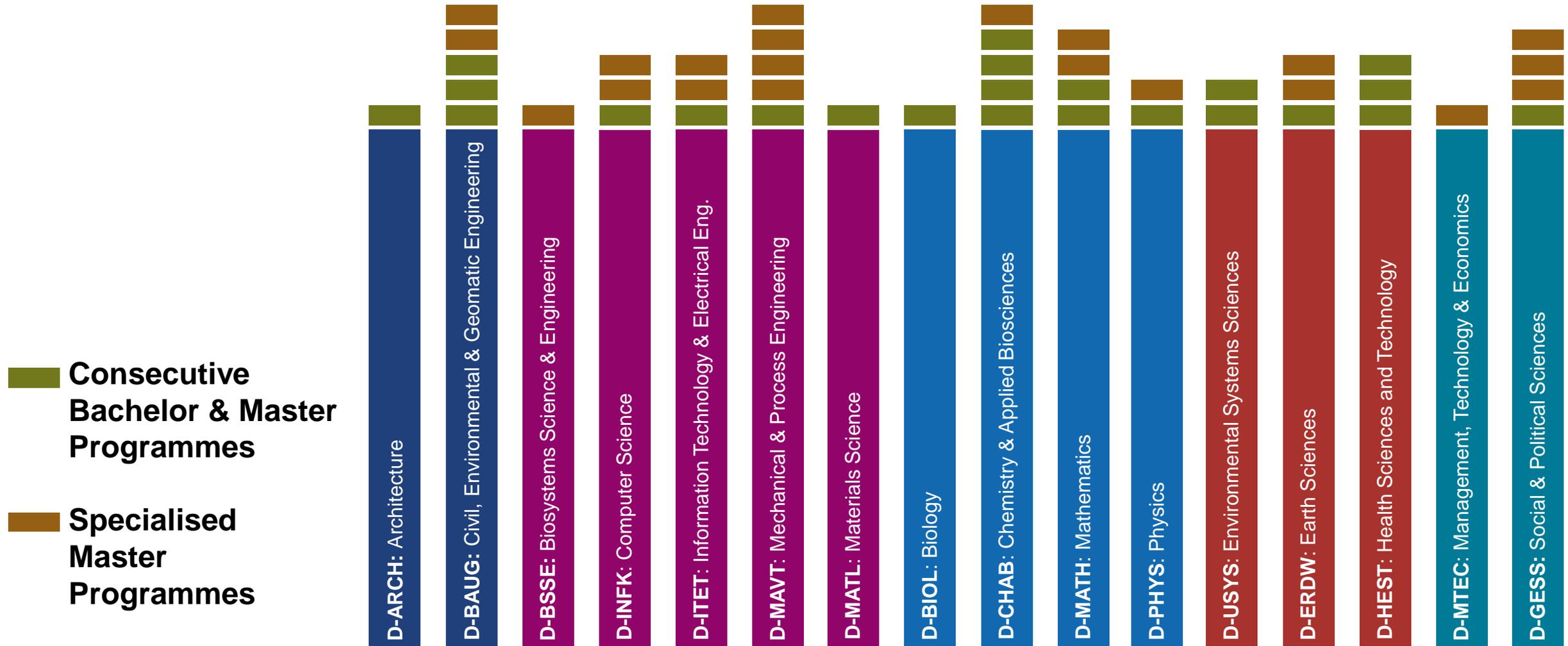
- Growing student numbers:
Are we attracting the best suited candidates?

Bachelor

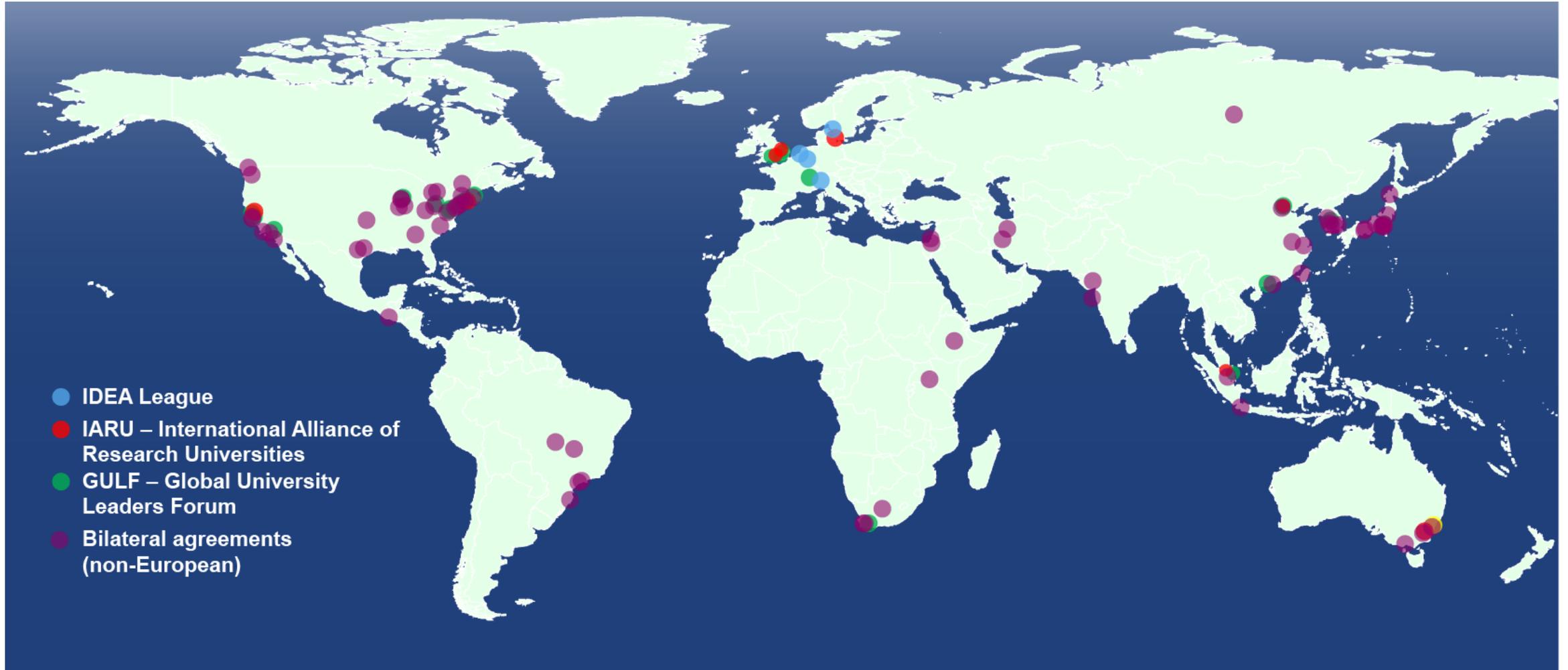
- Fundamental knowledge in basic Sciences
- Teaching in German → mainly Swiss students

- Selective first year: How do we increase study success und minimise drop-outs?

Study Programmes at ETH Zürich



International Alliances and Partnerships



International Alliances

IDEA League

- Delft University of Technology
- RWTH Aachen University
- Chalmers University of Technology
- Politecnico di Milano


 The logo for the IDEA League, featuring the text "IDEA League" in a bold, sans-serif font. The word "IDEA" is in a dark blue color, and "League" is in a lighter blue color.

UNITECH International

Network of leading European technical universities and multinational companies

- Delft University of Technology
- RWTH Aachen University
- Chalmers University of Technology
- INSA Lyon
- Loughborough University
- University of Dublin, Trinity College
- Politecnico di Milano



IARU – International Alliance of Research Universities

- Australian National University
- National University of Singapore
- Peking University
- University of California, Berkeley
- University of Cambridge
- University of Cape Town
- University of Copenhagen
- University of Oxford
- University of Tokyo
- Yale University



Internationalisation of Zürich



Singapore-ETH Centre for Global Environmental Sustainability (SEC)

Research programmes:

- Future Cities Laboratory, since 2010
- Future Resilient Systems, since 2014

ETH Studios: Innovation challenges for students



Thank you for your attention!

