

# ETH Zurich in the global research landscape

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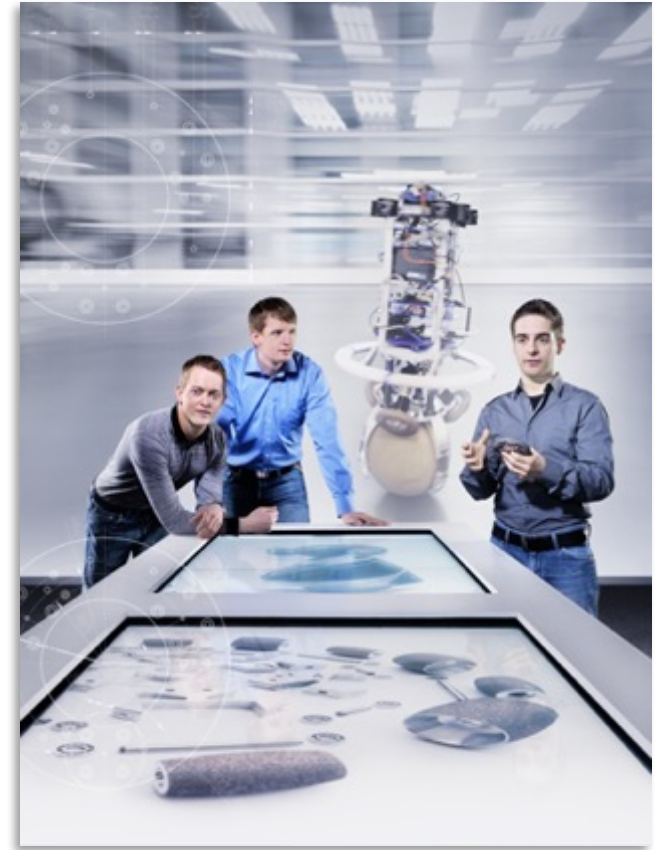
# ETH Zurich: An engine of innovation since 1855

- **Founded 1855**

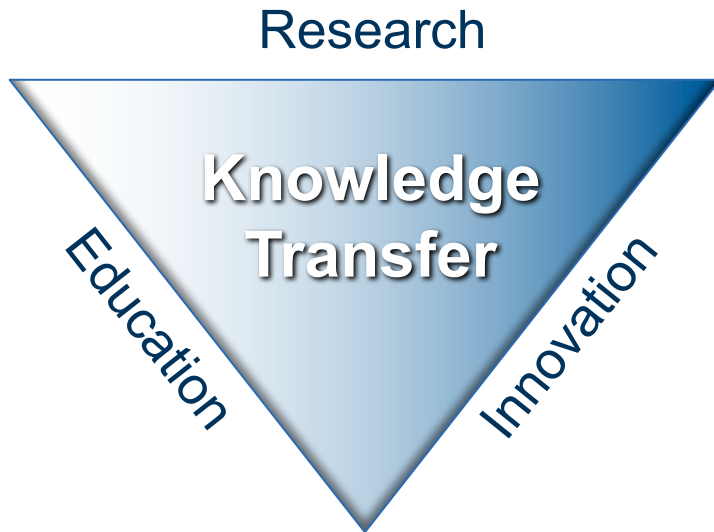
The “Federal Polytechnic School” has been the driving force of industrialisation in Switzerland

- **Today**

A leading institution for research and higher education in engineering and natural sciences, interacting with multiple stakeholders in a world-wide context.



# Excellence based on three pillars

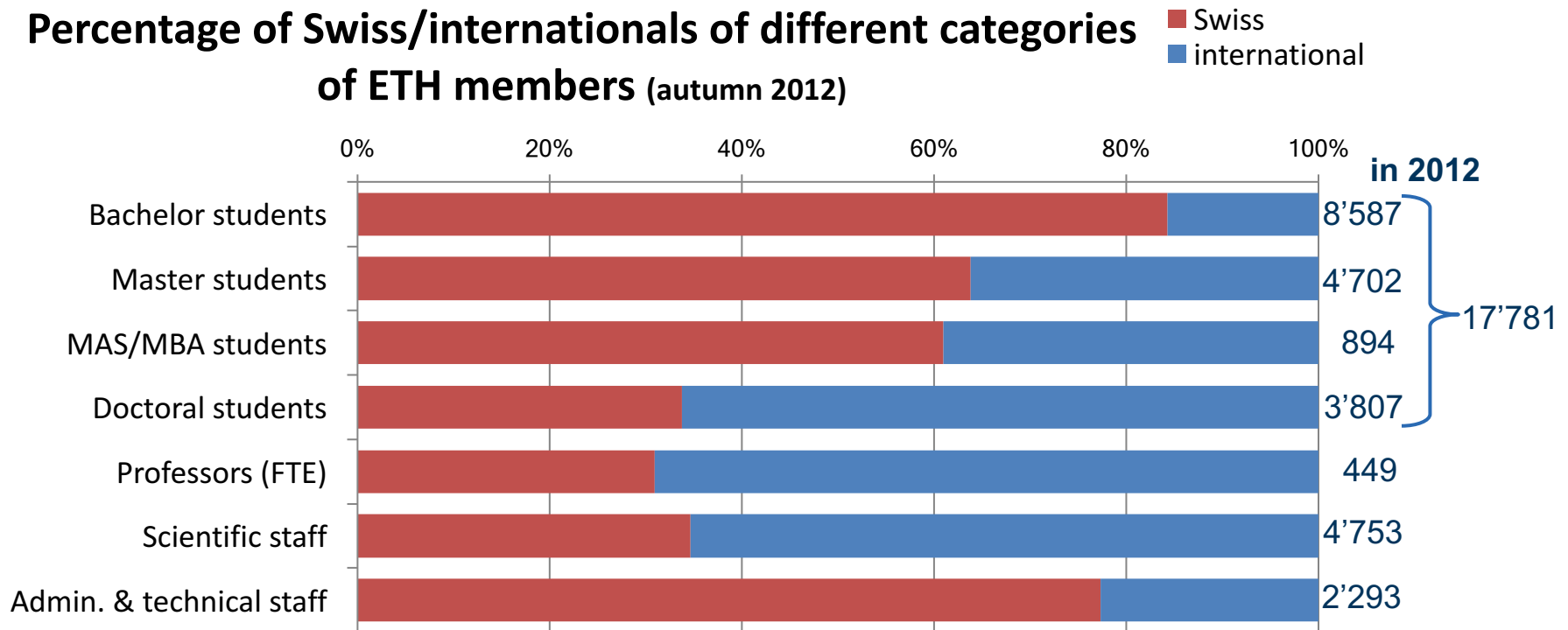


- High-quality education and research at the highest international level
- Foster intellectual and cultural diversity as well as academic freedom for education and research
- Transfer scientific results to society



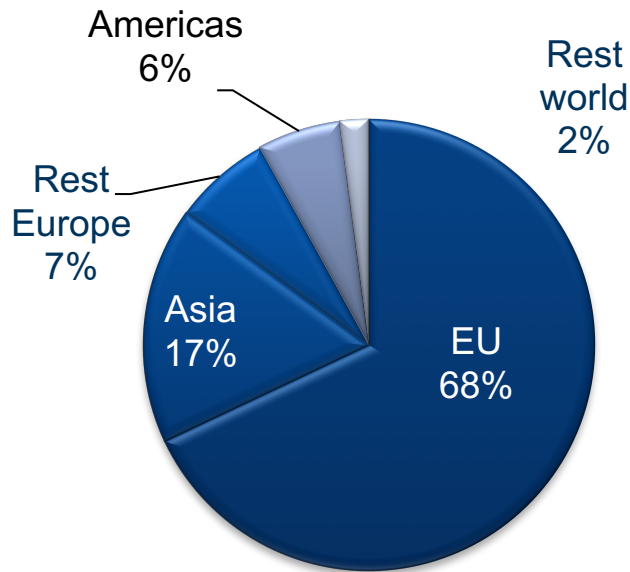
# ETH Zurich is a global community

**Percentage of Swiss/internationals of different categories of ETH members (autumn 2012)**



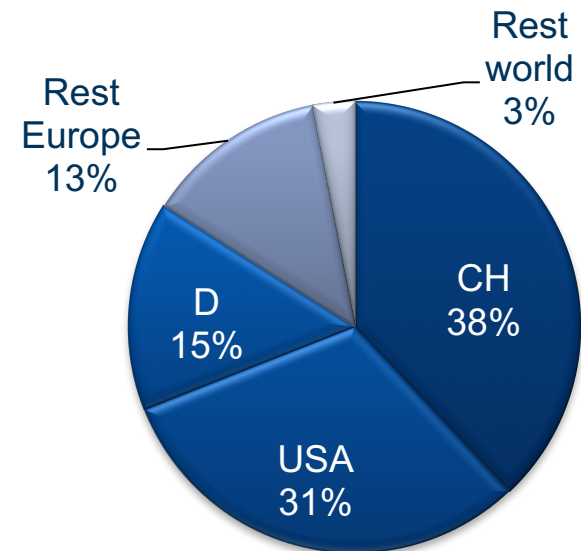
# ETH Zurich is a global community

## International doctoral students (autumn 2012)



Most prominent countries:  
Germany, Italy, China, India, US, Russia  
Similar numbers for Master students

## Faculty recruiting policy: Excellence through diversity



Country of recruitment of newly  
appointed professors 2010–2012

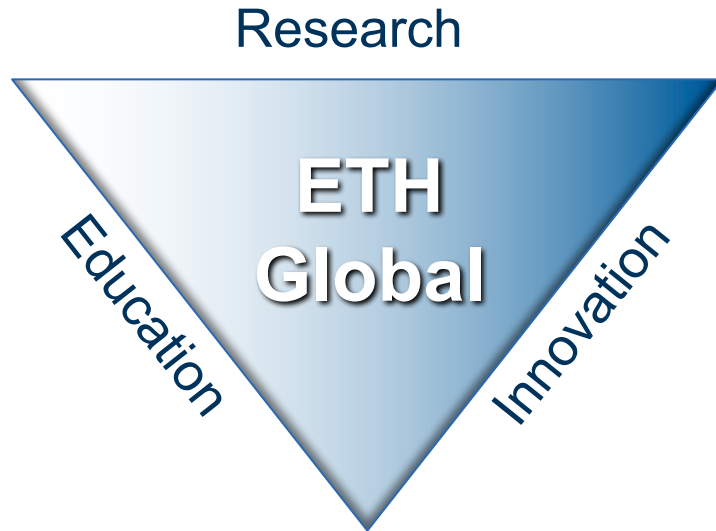


# ETH Zurich is a global community

The international nature of ETH Zurich's community and the individual networks of each faculty member are the core of ETH Zurich's integration in the international academic community.



# Global strategy of ETH Zurich



- Foster international partnerships in research, innovation and education
- Position ETH Zurich as a leading research university in an increasingly global framework

# Global strategy: three main goals

Educating future  
leaders and experts



Contribute to the world-wide  
intellectual and academic  
capacity building and  
capacity development



Addressing challenging  
and complex  
research topics



Contribute to innovative  
solutions on topics of  
highest relevance for  
present and future  
generations



Positioning ETH Zurich  
as forward-looking  
global research university

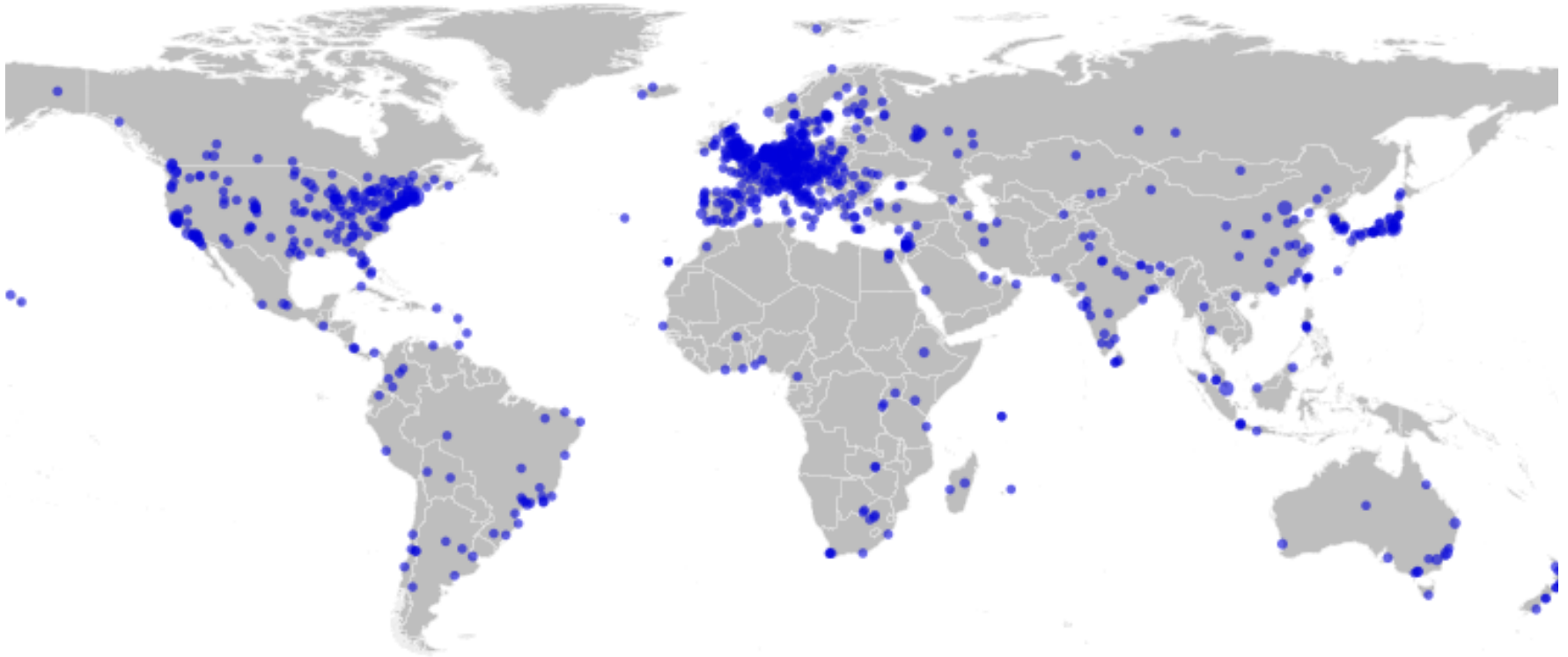


Strengthen worldwide  
networks with academia,  
public and private sector,  
and civil society





# Support for international research collaboration



Source: ETH Zürich, International Knowledge Base

# Singapore–ETH Center (SEC) for environmental sustainability

- Partnership with Singapore's National Research Foundation (NRF)
- On NRF's CREATE Campus for Research Excellence and Technological Enterprise
- First research programme “Future Cities Laboratory” launched 2010
- Currently some 150 researchers work at SEC, incl. 50+ doctoral students (of ETH Zürich, National University of Singapore and Nanyang Technological University)

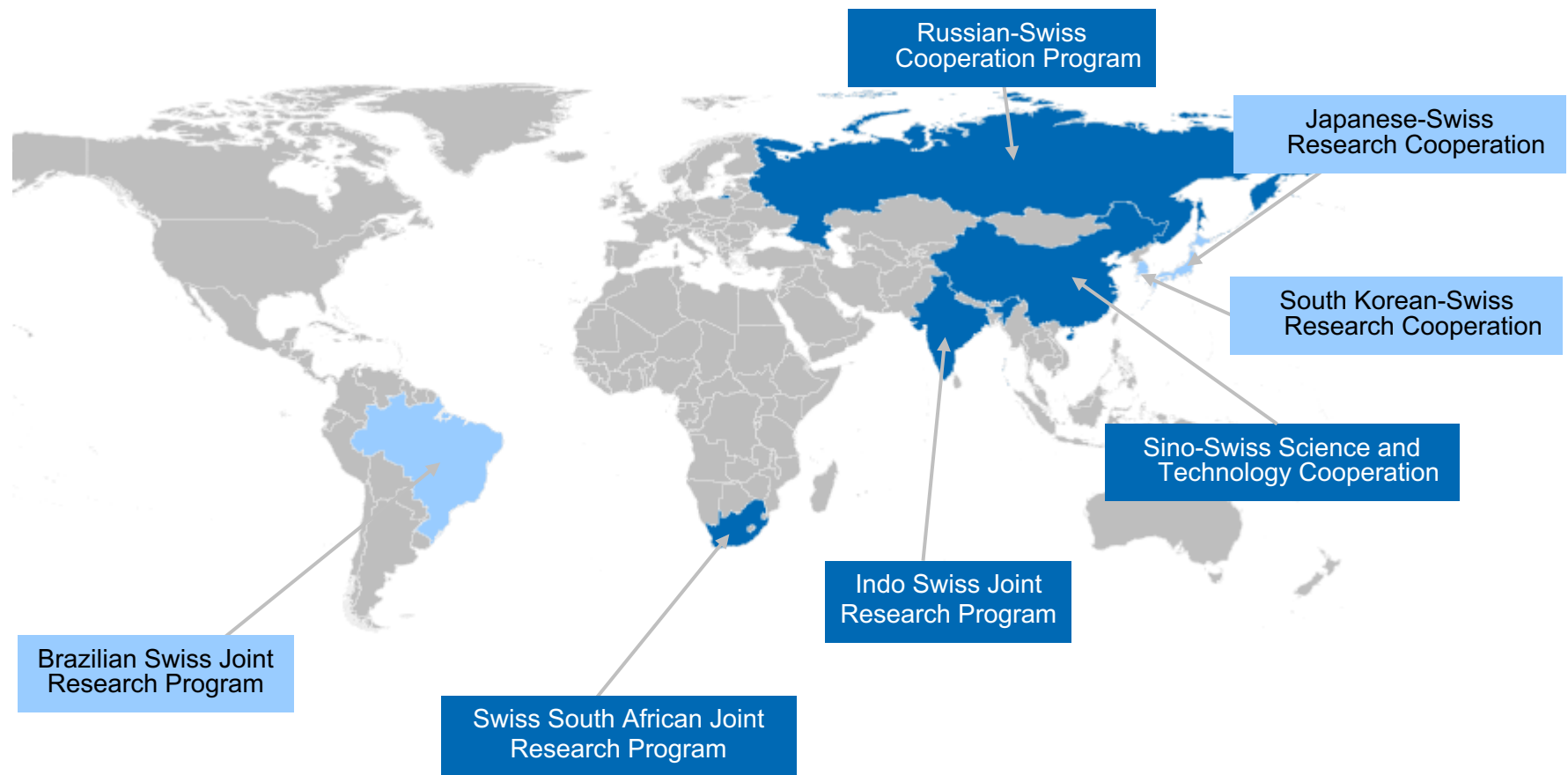


CREATE Tower, Singapore



SEC ValueLab

# Swiss bilateral science and technology cooperation programs: focus on emerging markets



# ETH Zurich globally networked with leading universities

e.g. IARU (ETH chair: 2013-2014), IDEA League (ETH chair: 2012-2013) and GlobalTech





# Thank you for your attention

[www.ethz.ch](http://www.ethz.ch)

[www.global.ethz.ch](http://www.global.ethz.ch)

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# Spare

# Confronting new challenges: Strategic topics

## Energy & Climate



## Information Society



## Future Cities



## New Materials



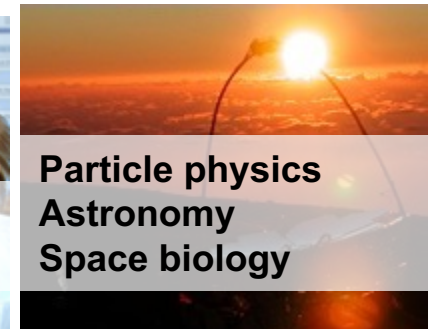
## Security & Risk



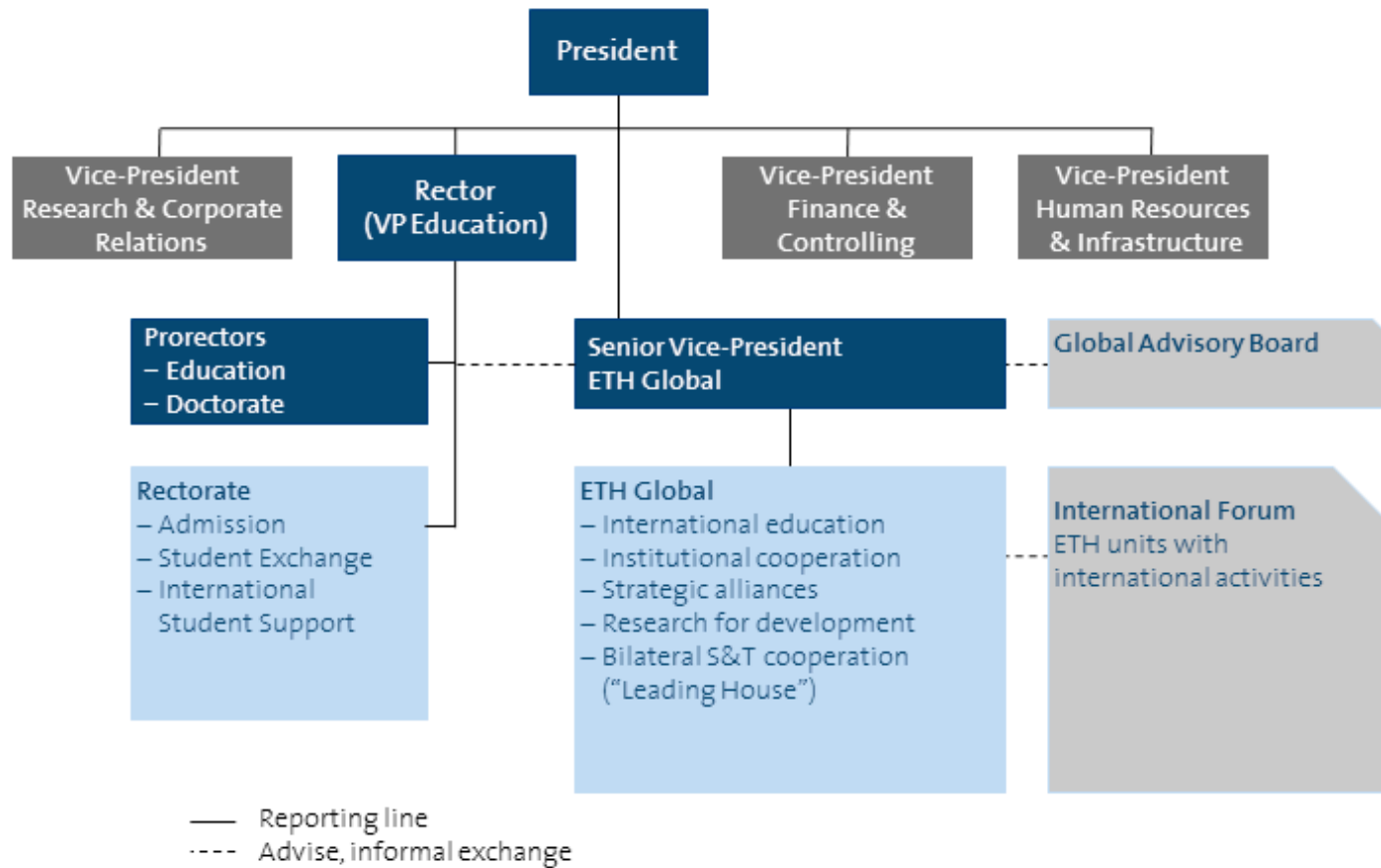
## Life & Health



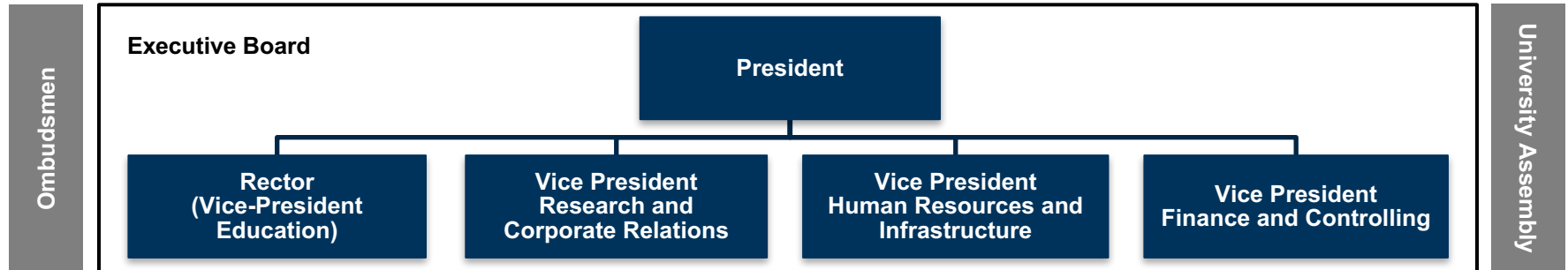
## The Universe



# ETH Global – Organization



# Organisation of ETH Zurich



16 Departments				
Architecture and Building Sciences	Engineering Sciences	Natural Sciences and Mathematics	System-oriented Natural Sciences	Management and Social Sciences
Architecture	Mechanical and Process Engineering	Mathematics	Earth Sciences	Management, Technology and Economics
Civil, Environmental and Geomatic Engineering	Information Technology and Electrical Engineering	Physics	Environmental Systems Sciences	Humanities, Social and Political Sciences
	Computer Science	Chemistry and Applied Biosciences	Health Sciences and Technology	
	Materials Science	Biology		
	Biosystems Science and Engineering			