

# Academic Rankings and Their Impact on University

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# Why Rank Universities Globally?

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- **Growing student numbers**
- **Globalisation of knowledge**
- **Competition**
- **Marketisation**
- **Rankings drive this process as well as measuring it**
- **Recruit staff and students globally**
- **Publish globally important research**
- **Attract global employers**

## College and University Rankings

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College and university rankings are rankings of institutions in higher education which have been ranked on the basis of various combinations of various factors.

- **None of the rankings give a comprehensive overview** of the strengths of the institutions ranked because all select a range of easily quantifiable characteristics to base their results on.
- The subject has produced much debate about rankings **usefulness and accuracy**.
- UNESCO has questioned whether rankings "**do more harm than good**", while acknowledging that "**Rightly or wrongly, they are perceived as a measure of quality** and so create intense

## Most Prestigious Global Rankings

No.	Country	Issuing Institution	Name	Number of List
1	Europe	European Commission	U-Multirank	
2	UK	Quacquarelli Symonds (QS)	QS World University Rankings	1000
3	UK	<u>Times Higher Education</u> (THE)	Times Higher Education World University Rankings	1000
4	China	Shanghai Jiao Tong University	Academic Ranking of World Universities	1000
5	Turkey	Middle East Technical University	University Ranking by Academic Performance	800
6	USA	US News	U.S. News & World Report's Best Global Universities Rankings	1250
7	Spain	Spanish National Research Council (CSIC)	Webometrics Ranking of World Universities	12000
8	Netherlands	Leiden University	CWTS Leiden Ranking	038

## Top 20 University in World rankings in 2018-2019 (mainland)

名次	学校名称	校友会大学排名	世界平均排名	西班牙CSIC	美国USNews	英国QS	英国THE	荷兰CWTS	沙特CWUR	美国Scimago	中国NTU	中国SJTU
1	Tsinghua U	2	35	43	50	17	22	6	98	11	28	45
2	Peking U	1	42	52	68	30	31	11	92	20	36	57
3	浙江大学	5	73	85	165	68	101	3	157	18	40	67
4	上海交通大学	7	85	87	145	59	190	4	136	28	38	101
5	复旦大学	4	97	115	159	44	105	17	170	76	85	101
6	中国科学技术大学	15	121	119	138	98	93	75	209	138	96	101
7	南京大学	8	136	168	179	122	135	49	200	134	108	151
8	中山大学	10	170	203	224	295	301	27	202	137	96	101
9	哈尔滨工业大学	19	202	195	280	285	401	44	300	90	134	151
9	华中科技大学	12	202	177	260	415	351	20	276	91	115	151
11	武汉大学	9	213	174	299	257	351	68	335	161	158	201
12	中国科学院大学	3	222	452				187	189	84	23	
13	西安交通大学	18	252	205	356	313	501	35	265	150	146	151
14	Tongji U	23	254	233	302	291	401	78	312	175	208	301
15	山东大学	20	267	197	403	541	501	26	270	134	146	301
16	四川大学	14	282	257	494	601	601	18	296	126	144	151
17	天津大学	13	286	261	443	443	501	81	347	120	190	201
18	苏州大学	49	288	357	409		501	100	361	184	192	201
19	北京协和医学院	71	289					165	302	299	279	401
20	Beijing Normal U	17	297	278	330	292		210	383	355	327	201

# China University in Rankings

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In above 2018--2019 World University Rankings, Total 891 colleges and universities in China mainland enter the list.

**Top 50 :        2 universities**

**Top 100:       5 universities**

**Top 500:      45 universities**

**Top 1000: 161 universities**

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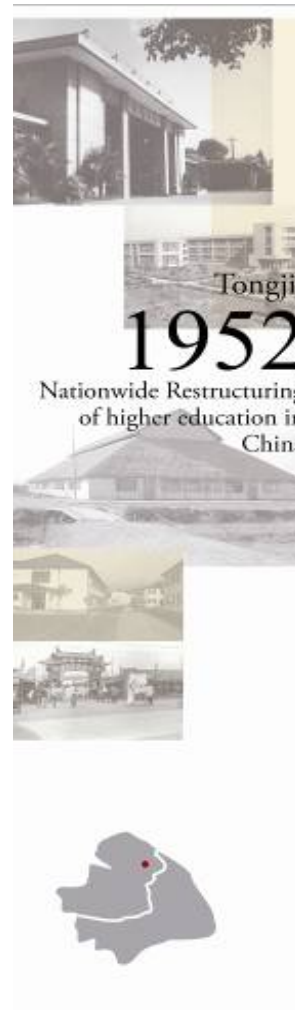
**Tongji University 同舟共济**



**TREASURE THE SAME ROOT  
SHARE THE SAME GOAL**



# History



## Facts and Figures 2019 (June)

35855 **full-time** Students

3468 International Students

5986 Faculty and Staff (**2814 teachers**)

85 Degree Programs in BA, **47** in MA, **32** in PhD

**10** broad categories of academic Disciplines (science, engineering, medicine, economics, management, humanities, law, philosophy, education and art)

360000 Alumni

2.14 Bil **RMB (267.5 Mio Euro)** Research Budget (**40%** public and **60%** industrial)

## Facts and Figures



**4** campuses

**2.54 km<sup>2</sup>** land area

**10 Bil RMB (1.25 Bil Euro)** fixed assets

**8** Affiliates Hospitals

**6** Affiliated Schools

# Tongji Rankings

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**2020 World Ranking**  
**265** (No.9 in Mainland China)



**2019 World Ranking**  
**201-300** (No.18 in Mainland )



**2019 World Ranking**  
**302** ( No.12 in Mainland )



**2019 World Ranking**  
**401-500** ( No.13 in Mainland )

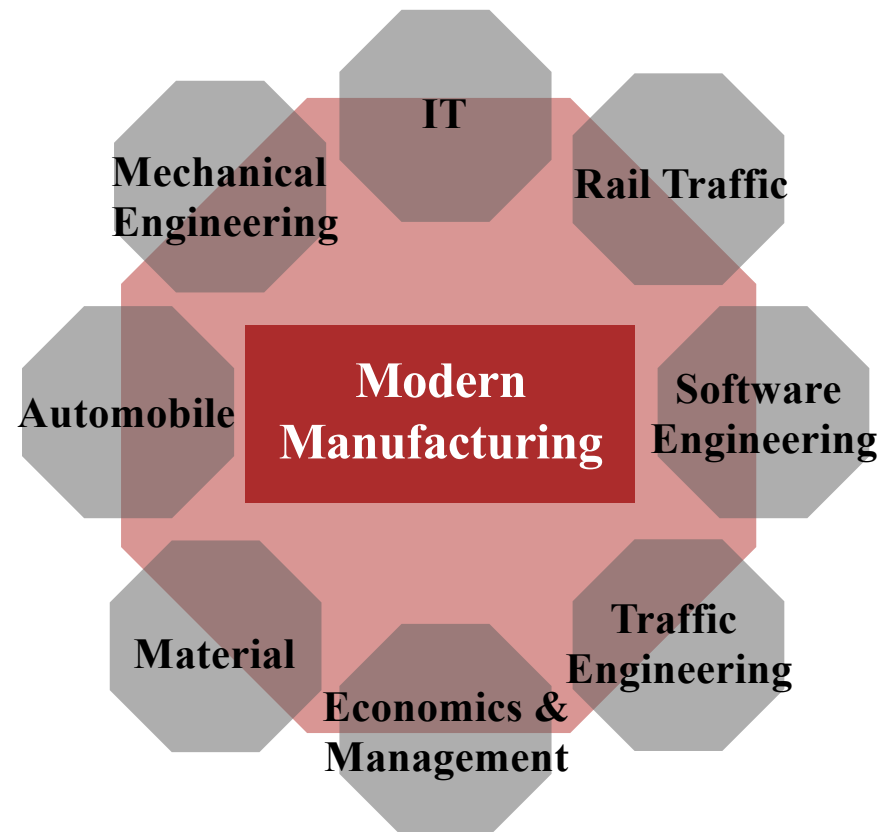
✓ **QS 2019 World Discipline Ranking**

No. **18** in the World for **Architecture**

No. **14** in the World for **Art and Design**

No. **31** in the World for **Civil Engineering**

# Discipline Chains



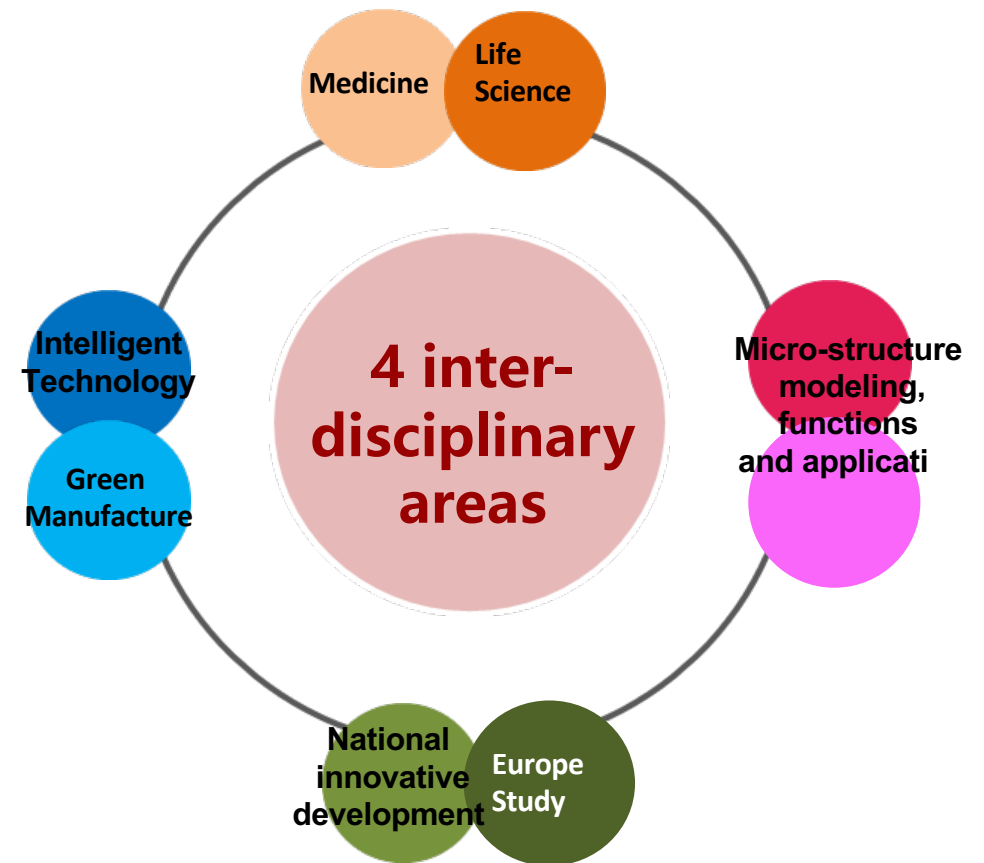
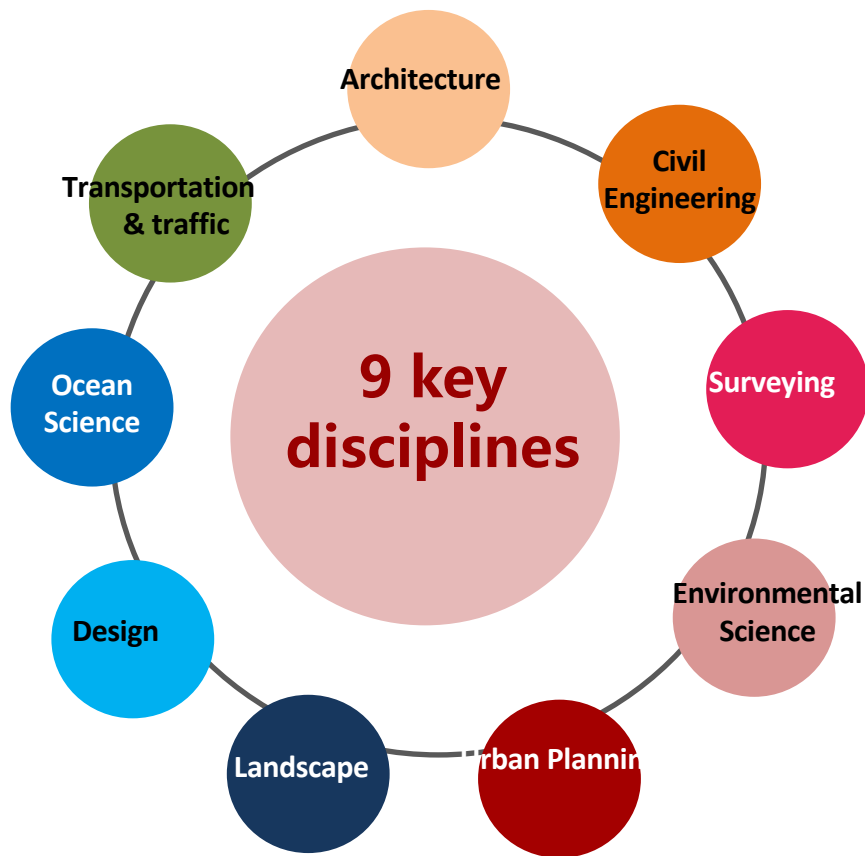


# Disciplines



Discipline	Ranking in China
Civil Engineering	1
Design	1
Urban Planning	1
Environment Engineering	1
Management Science and Engineering	1
Landscape	2
Architecture	3
Marine Science	3
Traffic and Transportation	3
Surveying and Mapping	4
Geophysics	5
Geological Engineering	10
Stomatology	10

# Disciplines in “Double First Class National Strategy”



**9** key disciplines and 4 interdisciplinary areas are listed.



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# Mission

**2020**

**3-5** discipline into the  
forefront of world-class  
**10-15** entering the  
ranks of world-class

comprehensive, research-  
oriented, world-renowned  
high-level university

**Short-term Goal**

**2030**

the overall level of the  
discipline reaching world-  
class level

To be the world-class  
universities

**mid-term Goal**

**2050**

Several world-leading  
disciplines

Entering the forefront of  
world-class universities

**Long-term Goal**

# Tasks

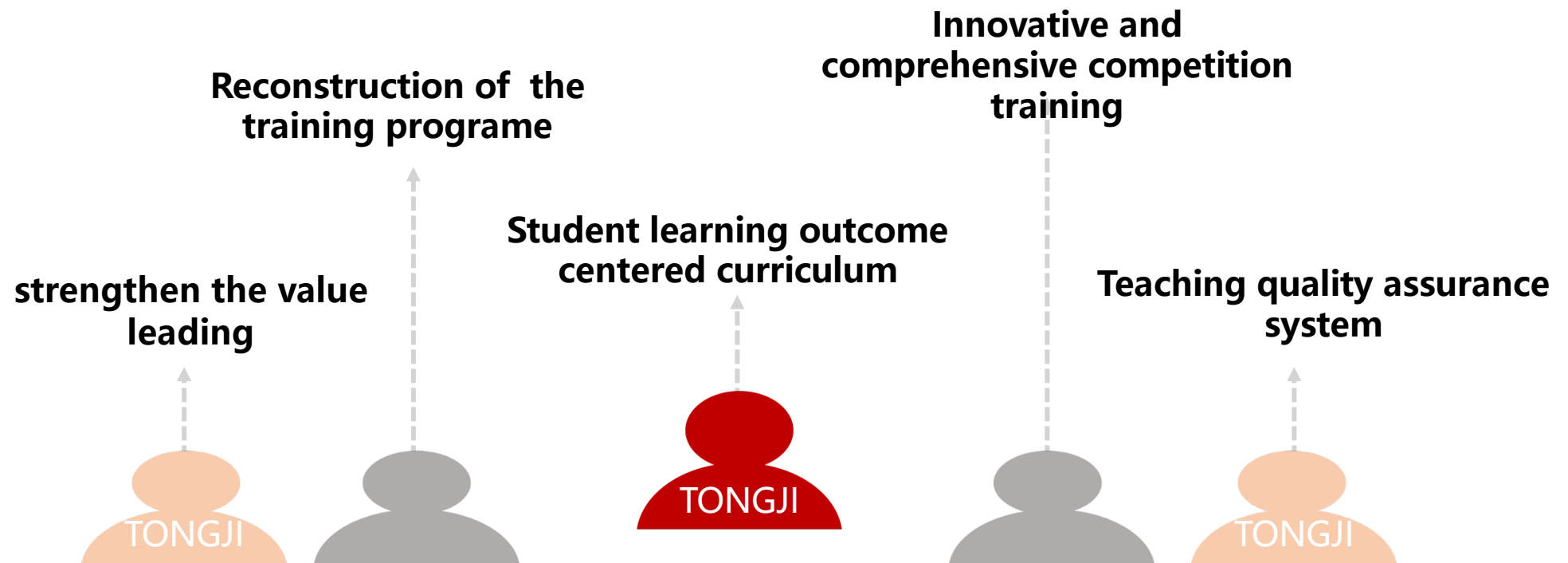
## Five construction tasks:

- ❑ Recruitment of talented scholars
- ❑ Cultivating top talents
- ❑ Enhancing scientific studies
- ❑ Inheriting innovative and excellent culture
- ❑ Promoting the technology Transfer and application

## five reform tasks:

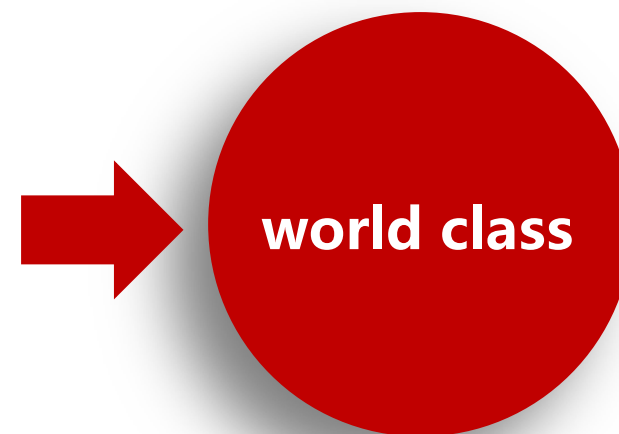
- ❑ strengthening and improving party leadership over the university
- ❑ improving the internal governance structure
- ❑ to achieve the key mechanism breakthrough
- ❑ social participation
- ❑ to promote international cooperation

# Cultivating top talents



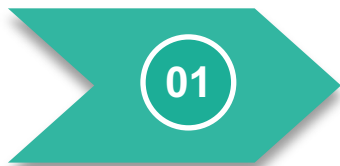
## Recruitment and cultivation of first-class teachers

- 1 Improving the high-level talent management system
- 2 Improve the structure of the teacher and staff
- 3 Cross-discipline and attracting the post-doctor
- 4 Reform of the school salary system
- 5 Effective administration teams



# Enhancing scientific

Strengthen basic research and applied basic research, gather large teams, build platforms, undertake big tasks, and give birth to big achievements



Organized research,  
interdisciplinary and  
collaborative  
innovation



encourage teachers  
to freely explore and  
conduct basic  
research, and  
provide stable  
funding support



autonomy of  
scientific research  
personnel,  
strengthen  
information  
construction and  
"one-stop"  
teacher service



Improving the  
research  
management  
and service  
mechanism

## **Promoting the technology transfer and application**

Building Tongji Knowledge-Economy Ring , driving economic and social development, and promote the transformation of scientific and technological achievements.

# Research' Benefits to Society



## Tongji Knowledge-Economy Ring

**2.4 km<sup>2</sup>** core area

**2 000** enterprises

**30 000** employees

**80%** of the entrepreneurs are Tongji professors, students and alumni.

**41.5 Billion RMB** sales volume in 2018



# Technical Support for National Projects



**Beijing Capital City  
Sub Center Planning**



**Xiong-An New Zone**



**Hongkong-Zhuhai-Macao  
Cross-Sea Bridge**



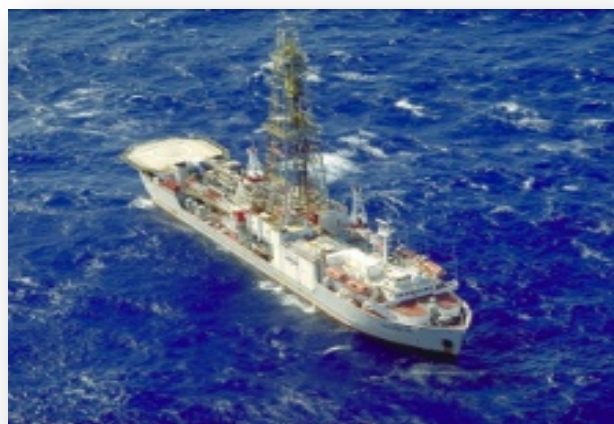
# Technical Support for National Projects



**Beijing Daxing  
International Airport**



**Construction of Shanghai  
Tower**

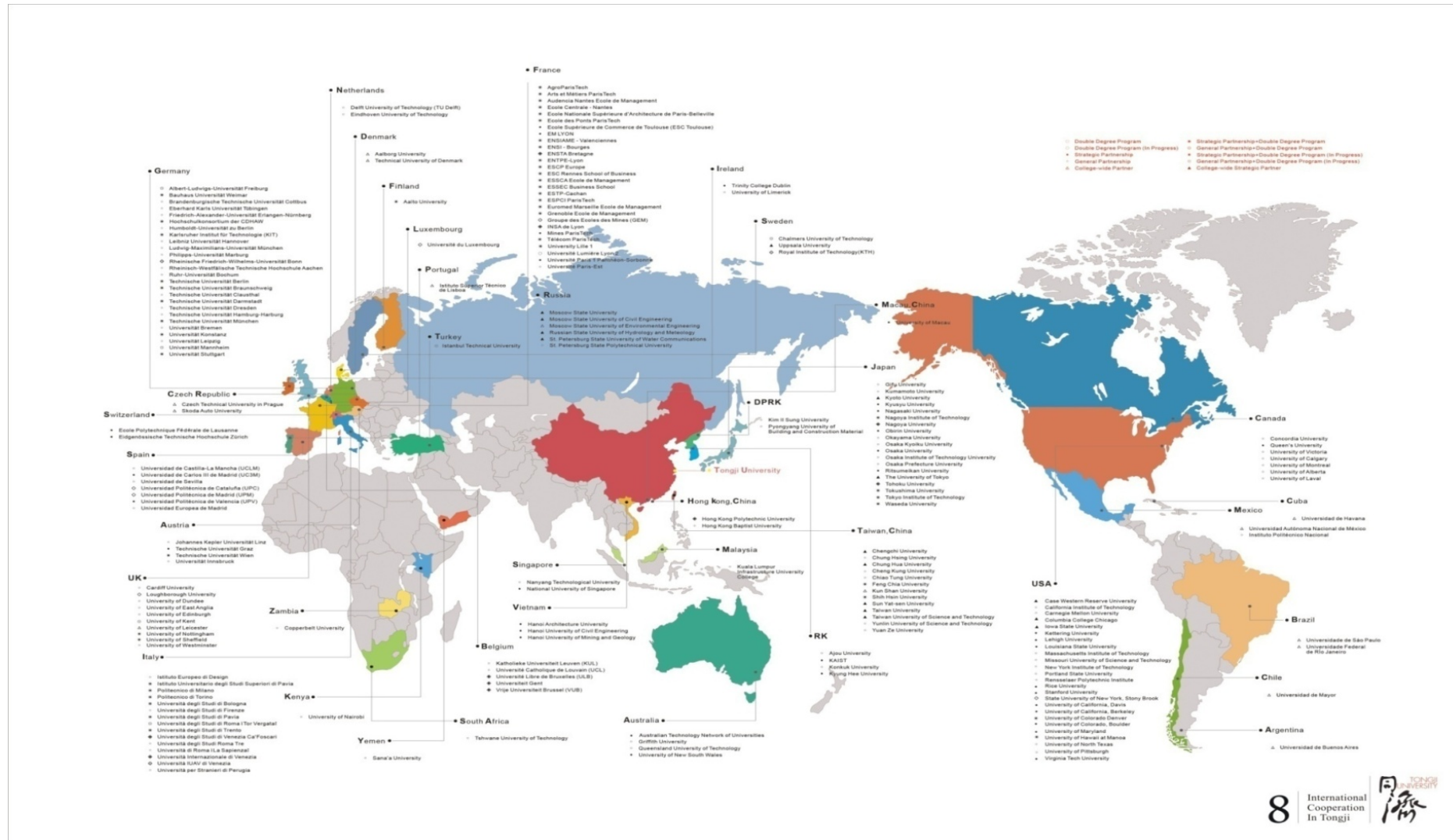


**Submarine observation**



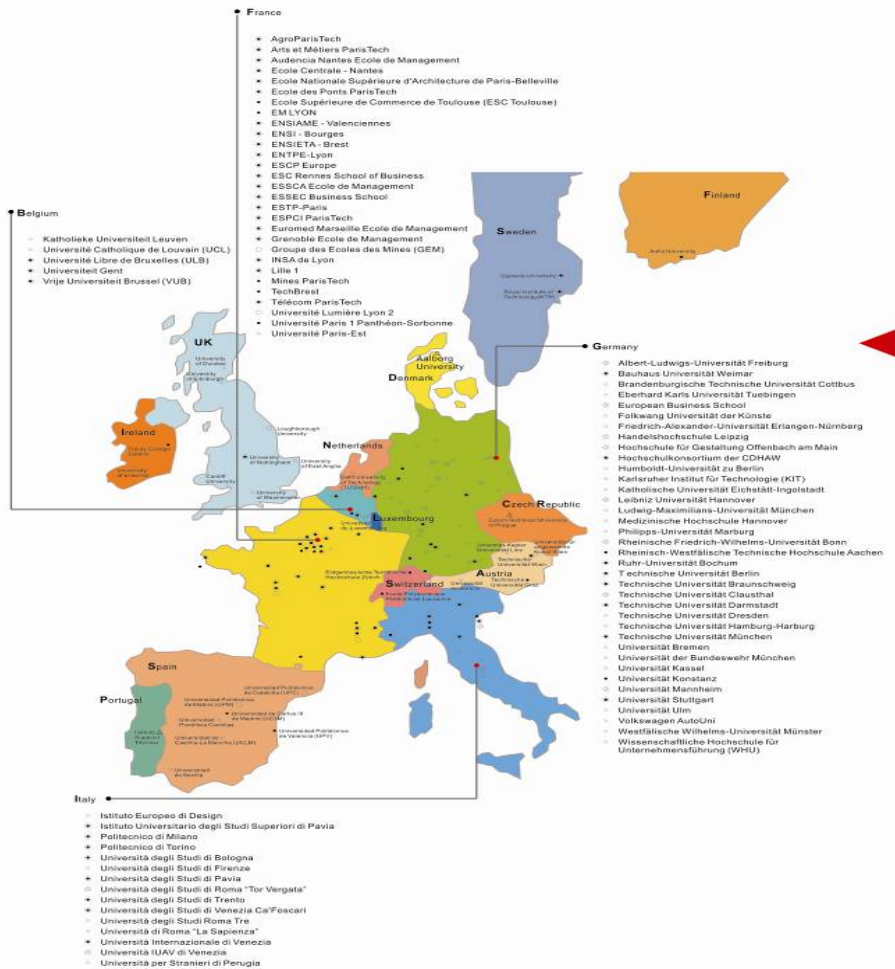
**Large-scale biological  
processing of source water**

# Global Partnership





# Global Partnership



## Focus on Europe

- **11** International cooperative platforms
- **about 100** Double degree programs
- Courses taught in foreign languages
- Joint research
- Secretariat of SEEPP

# 11 International Cooperative Platforms

<b>Sino- German College for Graduate Studies (CDHK)</b>	<b>since 1998</b>
<b>Sino-French Institute of Engineering and Management (IFCIM)</b>	<b>since 1999</b>
<b>UNEP-Tongji Institute of Environment for Sustainable Development (IESD)</b>	<b>since 2002</b>
<b>Sino- German College for Applied Science (CDHAW)</b>	<b>since 2004</b>
<b>Sino-Italian Campus (SIC)</b>	<b>since 2006</b>
<b>World Heritage Institute of Training and Research for the Asia and the Pacific Region (Shanghai) under the Auspices of UNESCO (WHITRAP)</b>	<b>since 2007</b>
<b>Sino-Finnish Centre</b>	<b>since 2011</b>
<b>Sino-German Campus</b>	<b>since 2011</b>
<b>Sino-Spanish Campus</b>	<b>since 2012</b>
<b>Shanghai International Institute of Design and Innovation</b>	<b>since 2016</b>
<b>Shanghai International College of Intellectual Property (supported by WIPO)</b>	<b>since 2016</b>

## Facts and Figures for Internationalization 2018

665	Delegations received
7200	visitors received
101	Agreements signed or renewed
39	International academic workshops held
155	long-term international faculty and 2300 short-term
2342	professors/staff visit abroad
3191	students study abroad
3468	International students (48% degree-seeking) from 156 countries and regions



# The vitality of system reform needs to be further stimulated



01

There are still some obstacles and problems in the system :  
The reform of the academic governance system, the international cooperation mechanism, the resource allocation mechanism, and the university- college two levels management.



02

It is necessary to provide incentives and vitality for the construction of first-class universities through further regulation and mechanism reforms.

## Conclusion

- ❑ The development of higher education is influenced by many factors such as political system, cultural tradition and economic level. The universities and disciplines have obvious Chinese characteristics. The classification of engineering disciplines and traditional Chinese medicine are unique to Chinese universities.
- ❑ The evaluation of a university or its disciplines can not simply copy the international standards or ranking indicators.
- ❑ The evaluation should adhere to the university classification. For an engineering and technology university, the evaluation of its contribution is not based on the number of papers, but must be indicators of technology and specialized talents that contribute to meeting the country's major engineering and technical needs.



**Thank you!**

