Towards a University Fulfilling Global and Local Needs

- In the Spirit of Sir Colin Campbell

WEI YANG, ZHEJIANG UNIVERSITY, CHINA

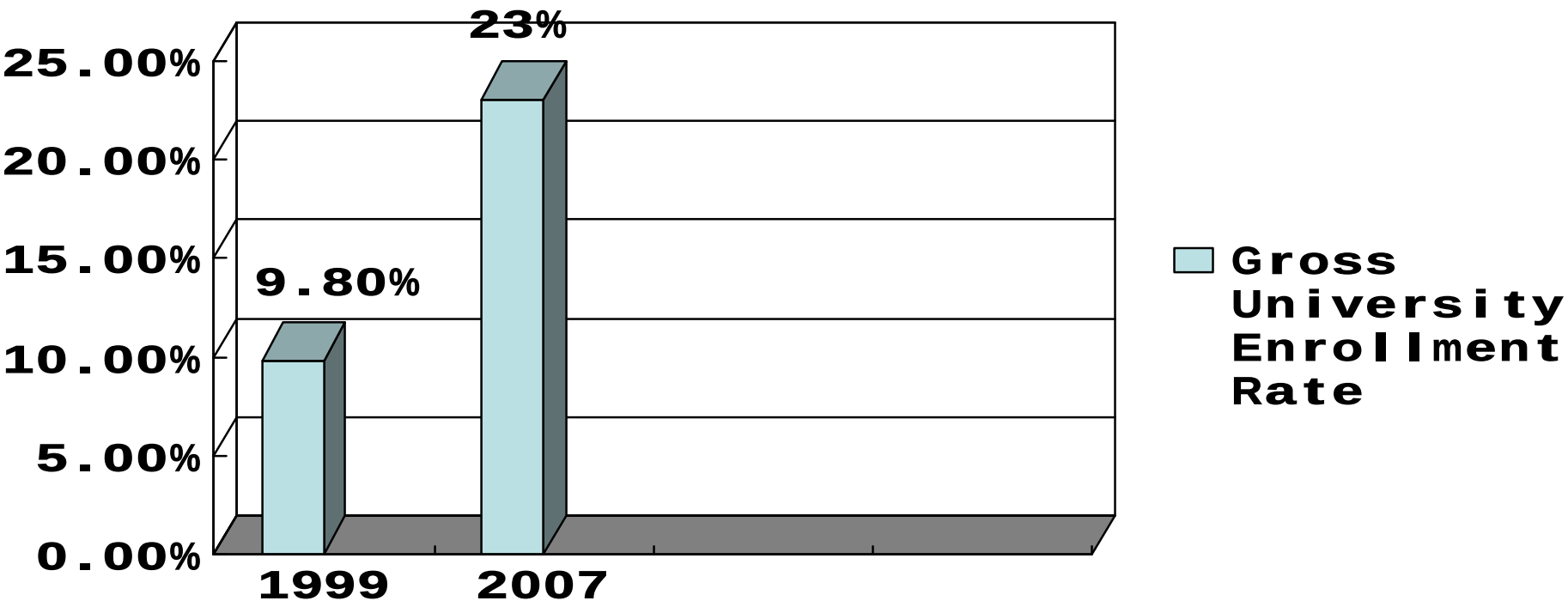
Outline

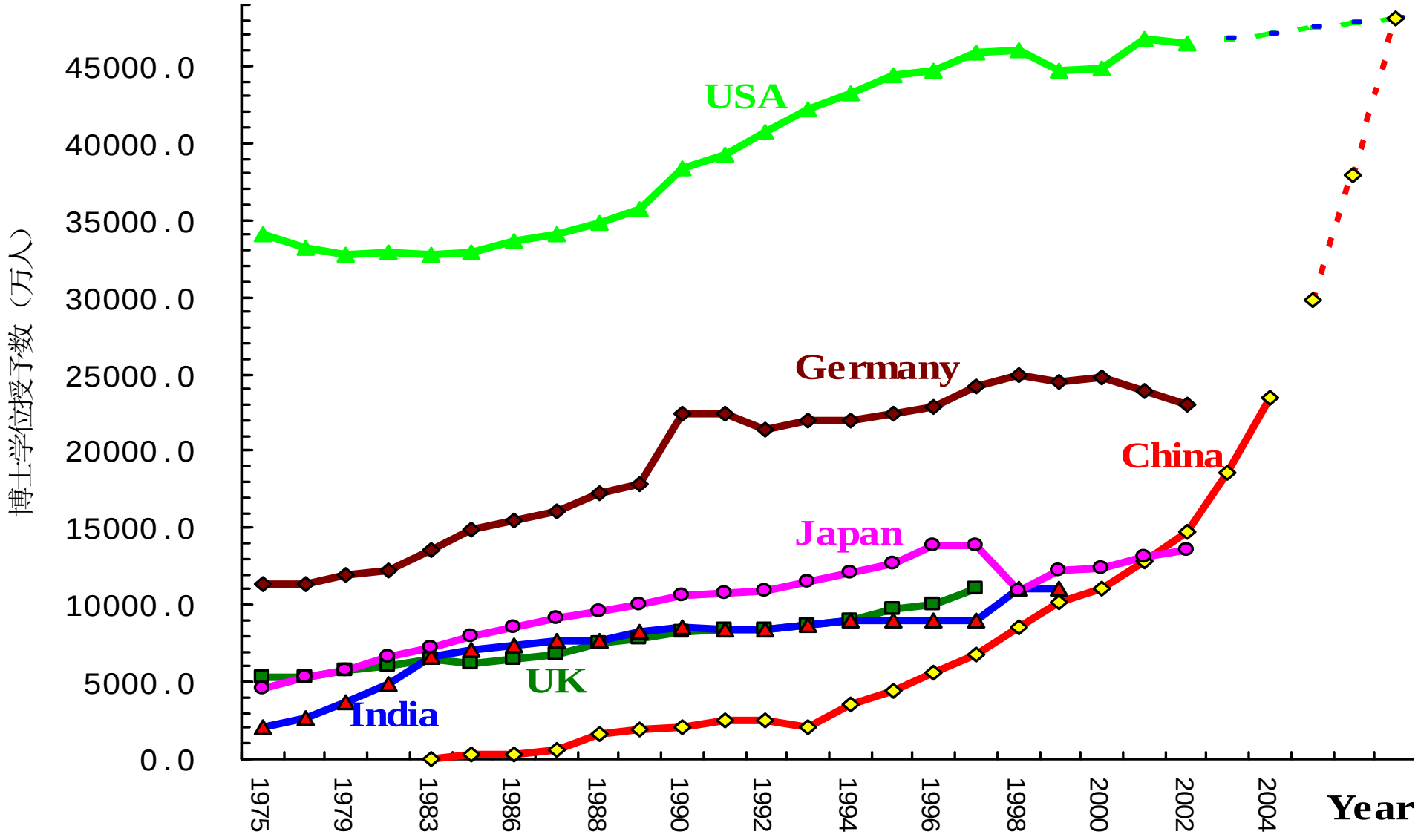
- Chinese Research Universities
- ZJU Fulfilling Local Needs
- ZJU Towards Globalization

Chinese Research Universities

Recent Drive of Higher Education in China

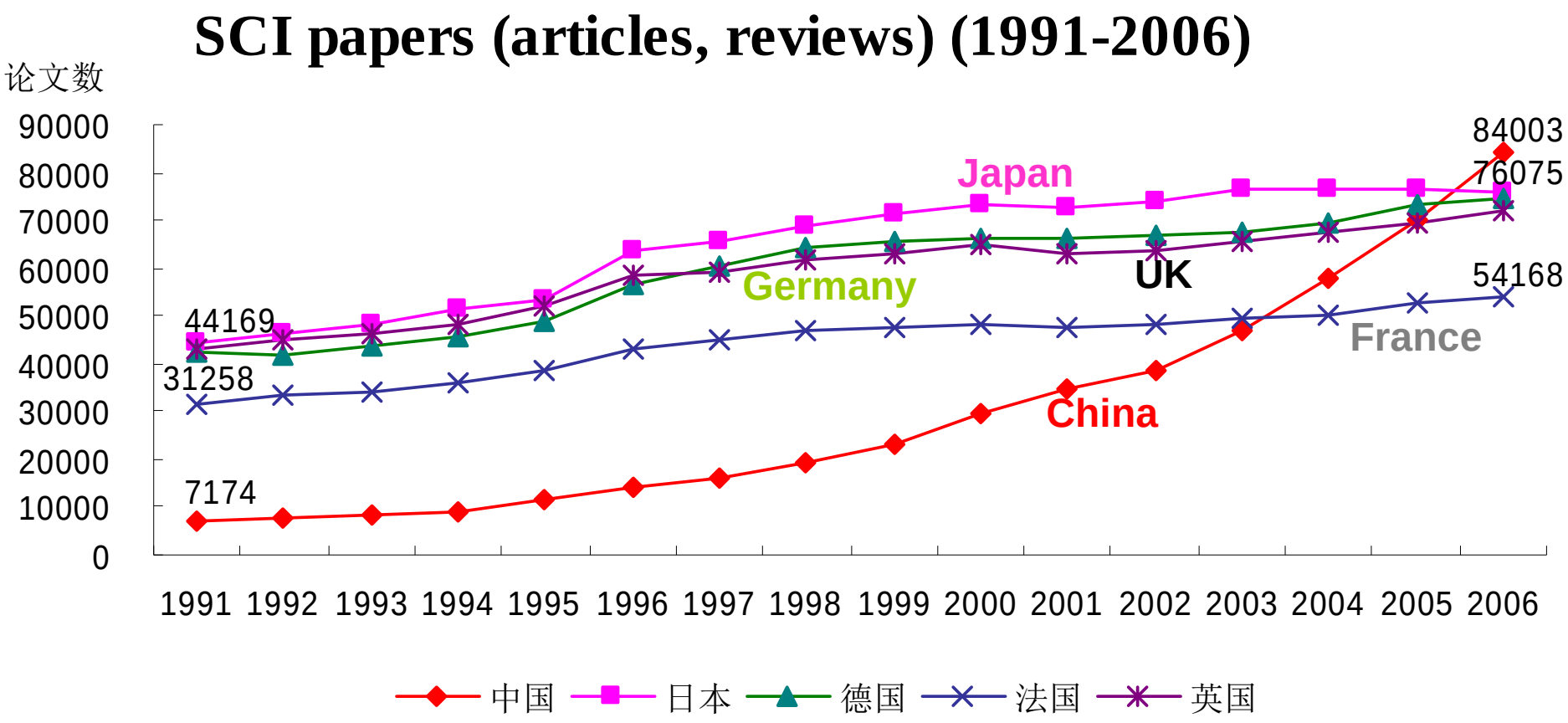
China becomes the largest higher education system in the world





Numbers of Awarded Doctoral Degrees, USA, Germany, Japan, UK, India and China (1975-2005)

Published Papers (Article/Review) in China, Germany, France, Japan & UK (1991-2006)



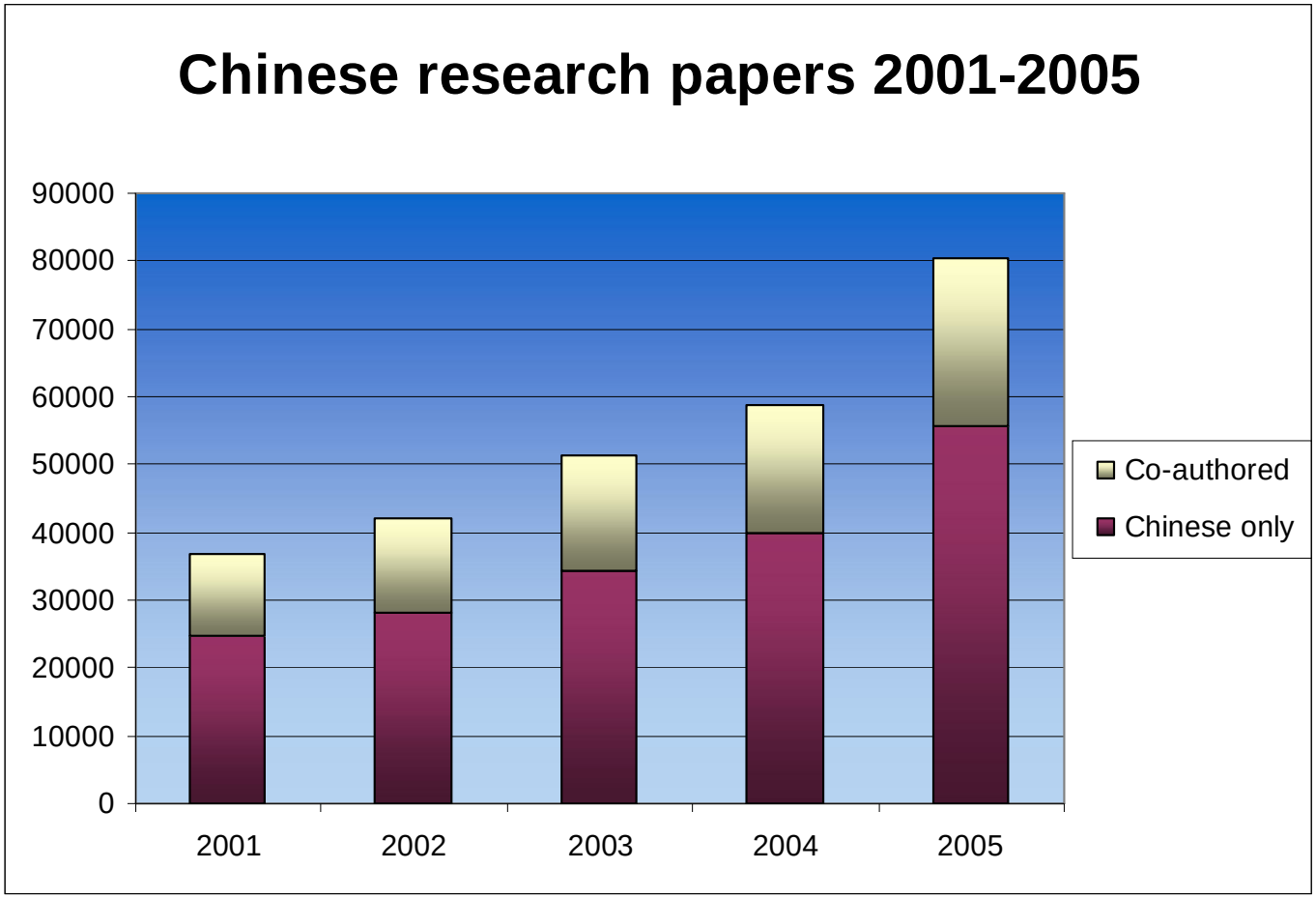
From “Scientific Observation, 2007”

University Data of CLRU (28) and AAU (61)

指标	1995			2005		
	CLRU	AAU	ratio	CLRU	AAU	ratio
Enrollment	10443	18719	1:1.8	30426	21516	1:0.7
U/G Ratio	0.24:1	0.26:1	----	0.36:1	0.26:1	----
Doctor Awards	68	381	1:5.6	452	362	1:0.8
Faculty Numbers	1459	1384	1:0.9	2206	1548	1:0.7
Research Funding ($100M)	0.09	2.11	1:23.4	0.64	3.96	1:6.2
Federal Funding ($100M)	0.04	1.36	1:34	0.39	2.65	1:6.8
SCI Papers	180	2714	1:15.1	1172	4162	1:3.6
SCI Citations	126	6514	1:51.7	1543	9509	1:6.2

Source: Progress Report of 211 Projects（1995－2005）

Global Collaborations



Top co-authorship countries & Regions for 2005

Country	# of papers
USA	6940
JAPAN	2575
ENGLAND	1577
GERMANY	1536
CANADA	1294
AUSTRALIA	1144
FRANCE	960
TAIWAN	951
SINGAPORE	855
SOUTH KOREA	757

Source: Thomson Web of Science data

ZJU Fulfilling Local Needs

Current Status of ZJU

Comprehensiveness

Largest Disciplinary Coverage of Doctoral Programs

24/81 Disciplines rank top 5 in China

6 University Hospitals with 7000 staffs

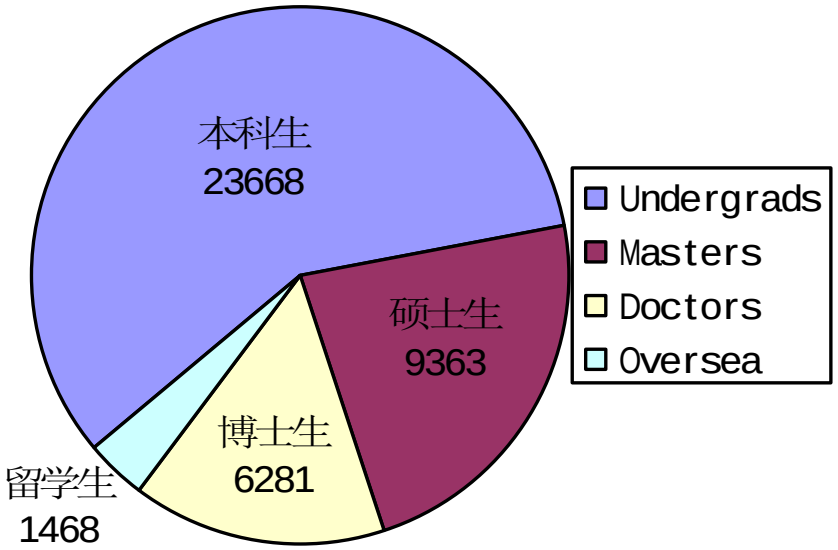
2007: Revenue $0.63B+$0.62B, (#2 in the nation)

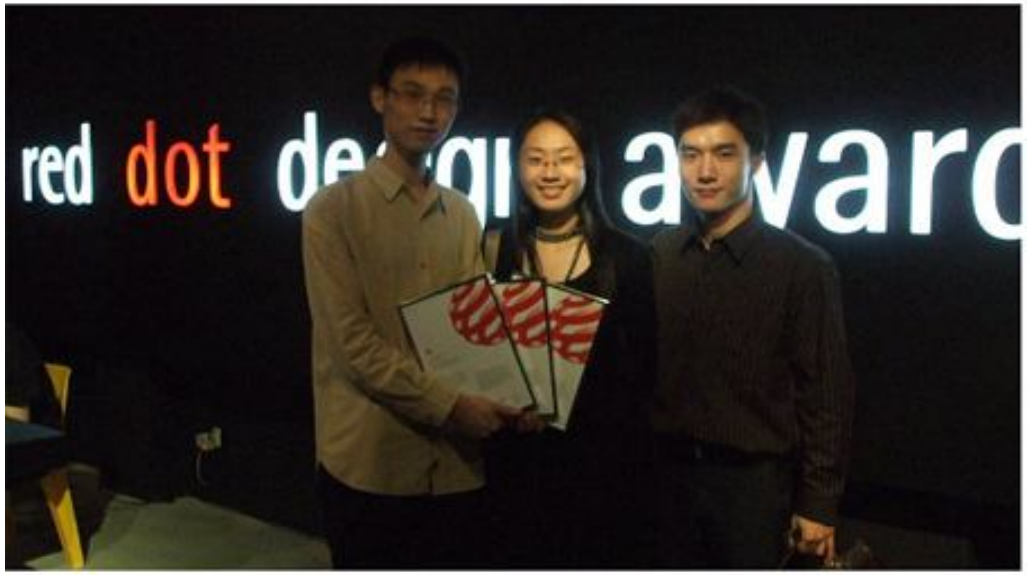
Current Status of ZJU

Education

Credit system, quarter, elite college, innovation incentive

High G/U ratio





Current Status of ZJU

- **Research (2007)**

  Research Funds $200M, 2nd in China

  Number 1 in

  - **SCI papers (3146)**
  - **NSFC grants (420)**
  - **Patents (>1400)**
  - **Regional Corporation**

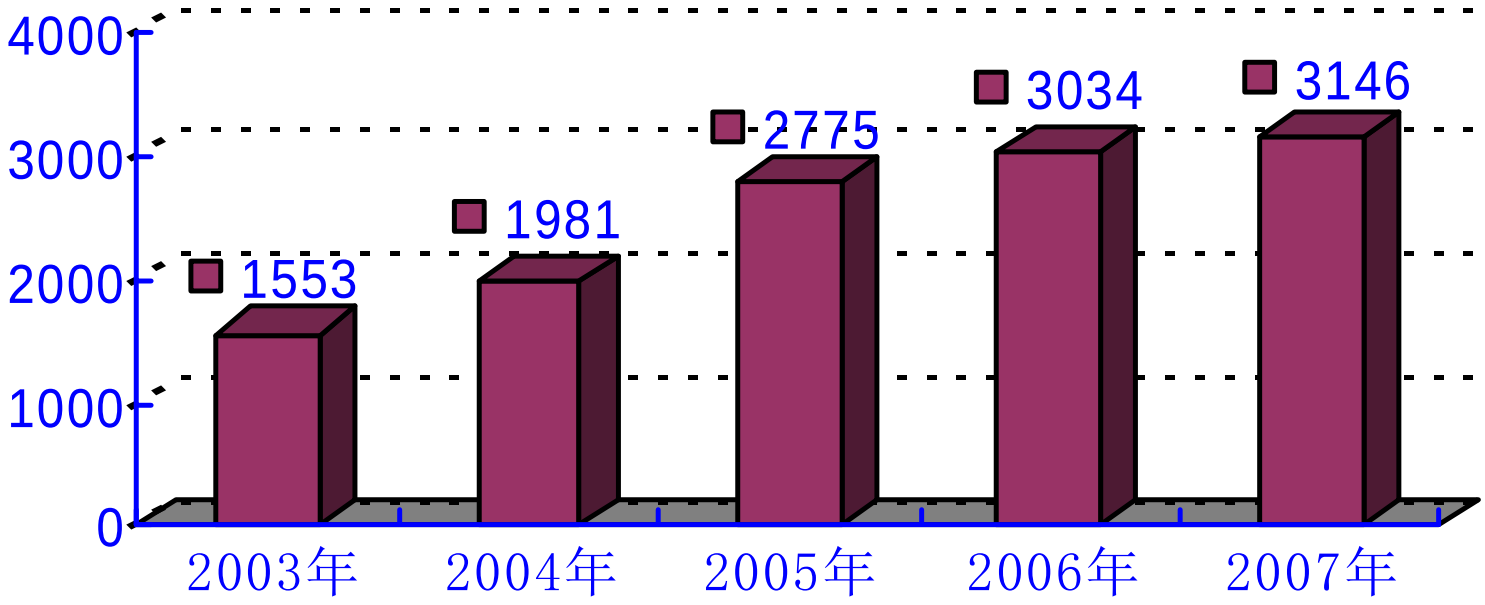
Current Status of ZJU

University Hardware

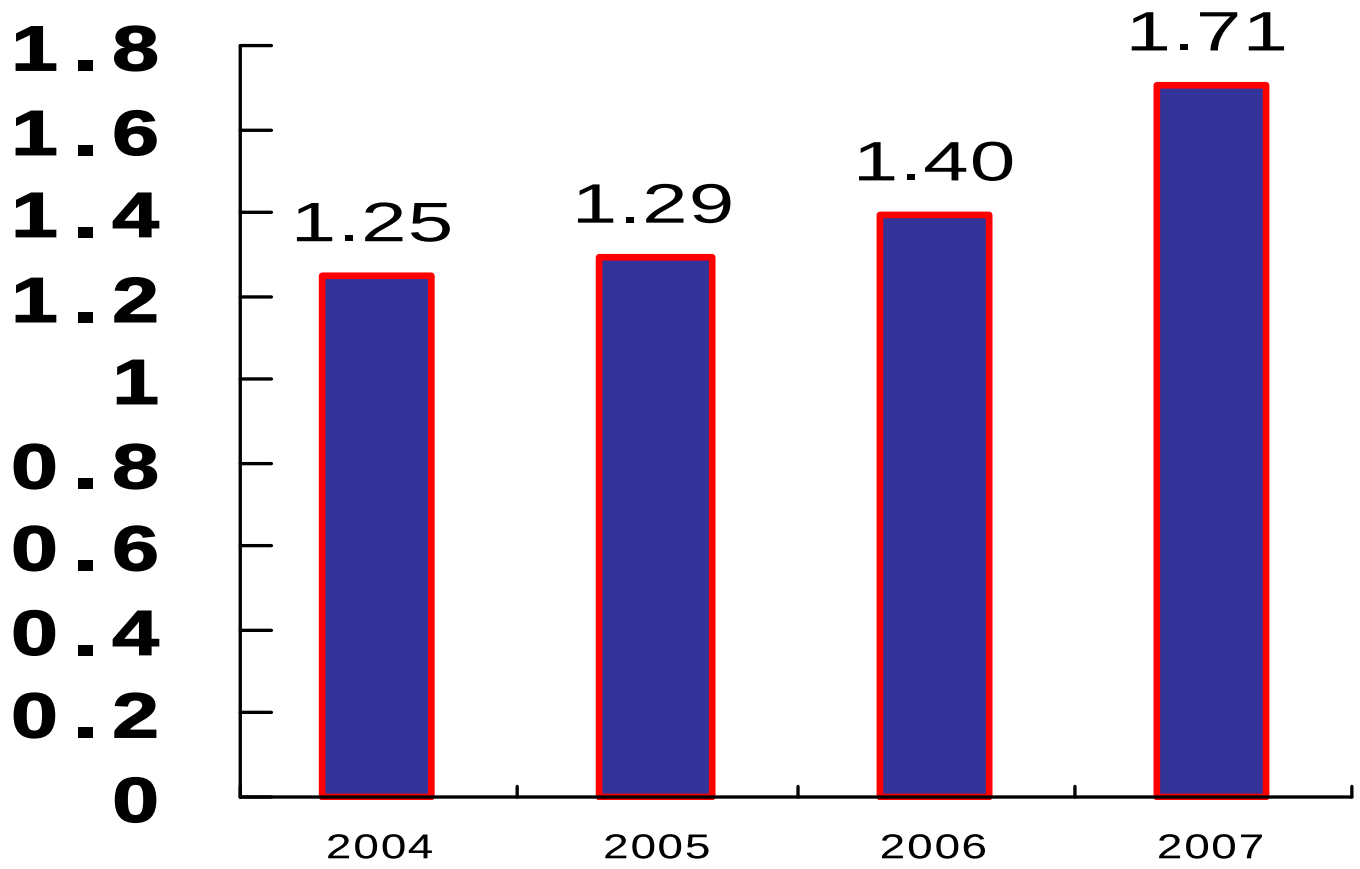
Total of 6km^2 land, newly built central campus, 2.2Mm^2 floor space, average 120m^2 faculty housing, digital library

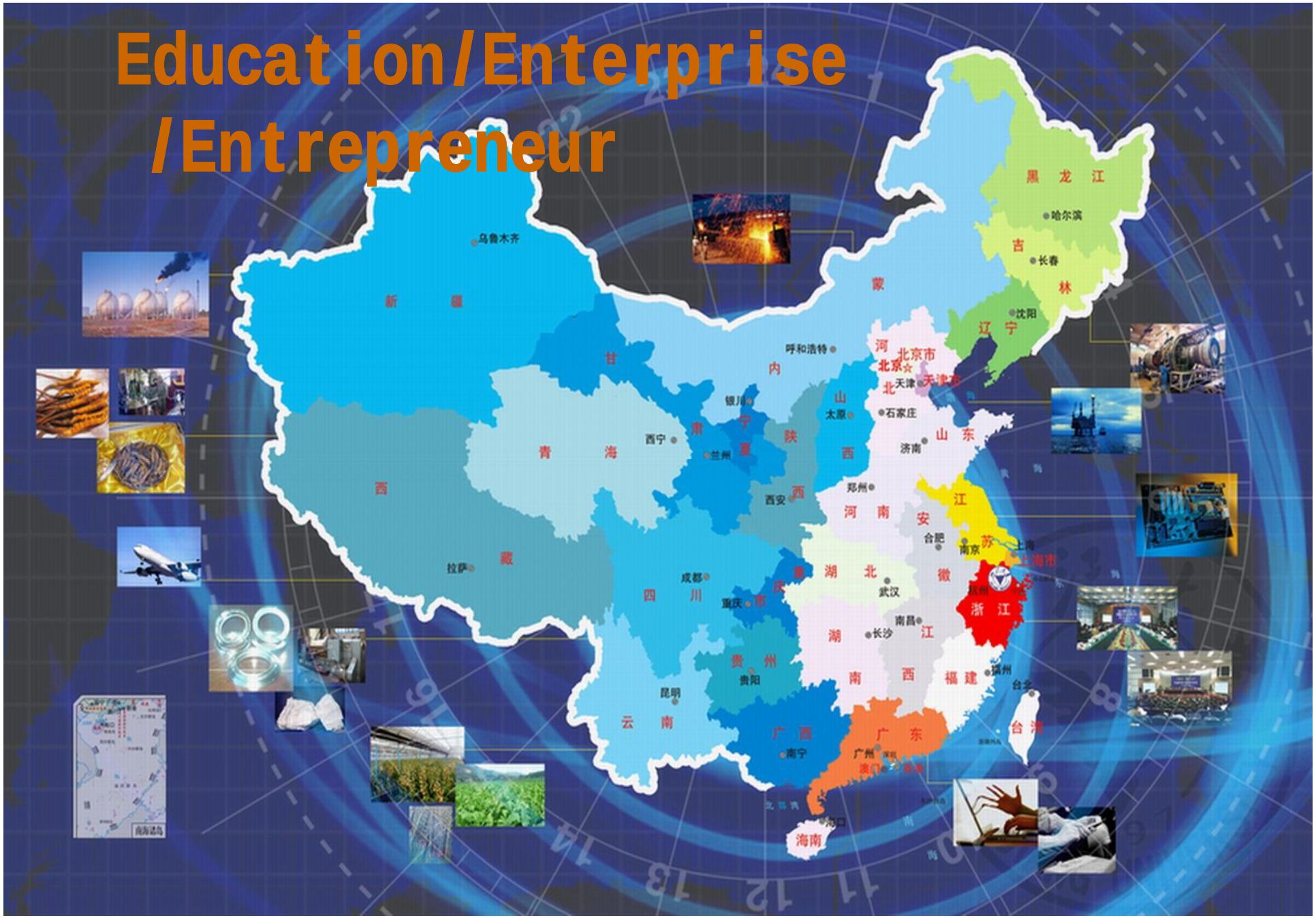
SCI Papers

- 13 folds in ten years, annually 34%
- Number one in China for 2006 & 2007



Impact Factor for ZJU SCI papers





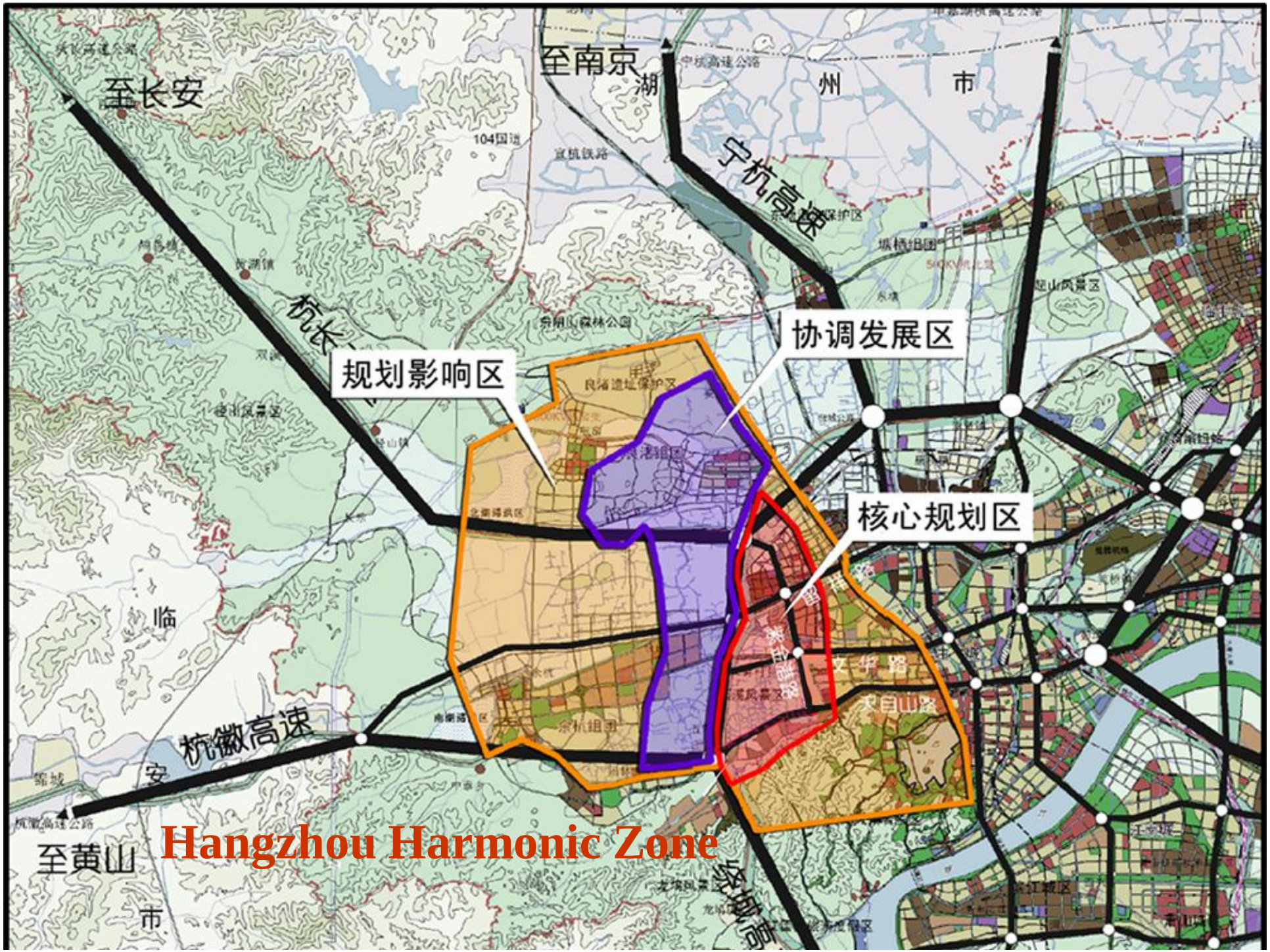
No. 1 in Technological Transfer

Zhejiang Province – Opportunity for ZJU

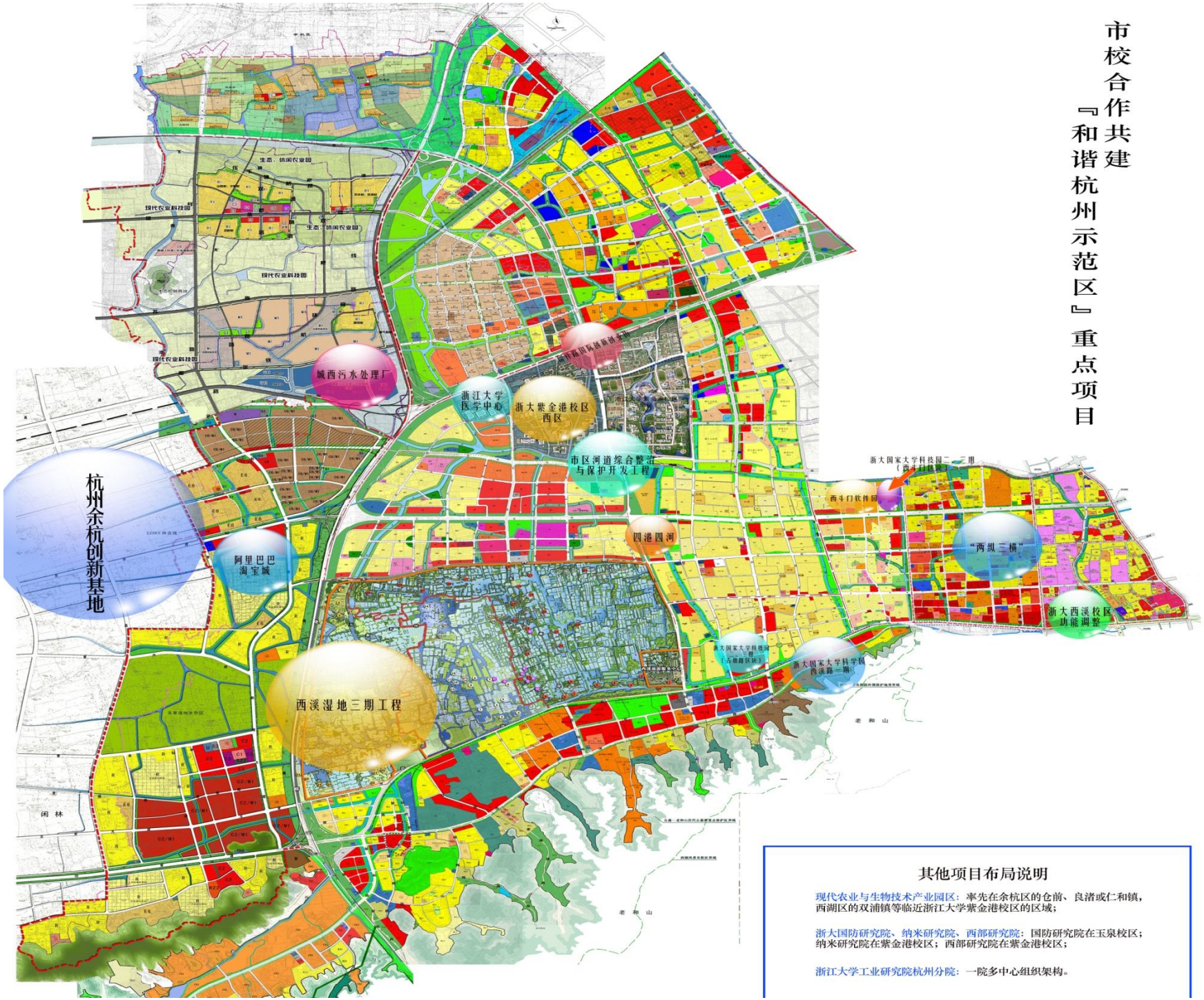
- 50M peoples, $5000 GDP/person
- Manufacturing center
- Large scale construction
- 72% economy in private sector
- Only one major university
- Absence of national institutes

Serve the Region

- Collaboration with all 11 regions in ZJ Province
- Strategic frameworks with Hangzhou & Ningbo
- 100 staffs serve the local governments
- “New Countryside” programs
- Hangzhou Demonstration Zone of Harmony


至长安
至南京
湖
州
市
104国道
宁杭高速
杭长
协调发展区
规划影响区
核心规划区
临
杭徽高速
安
至黄山
市
Hangzhou Harmonic Zone

市校合作共建『和谐杭州示范区』重点项目



其他项目布局说明

现代农业与生物技术产业园区：率先在余杭区的仓前、良渚或仁和镇，西湖区的双浦镇等临近浙江大学紫金港校区的区域；

浙大国防研究院、纳米研究院、西部研究院：国防研究院在玉泉校区；纳米研究院在紫金港校区；西部研究院在紫金港校区；

浙江大学工业研究院杭州分院：一院多中心组织架构。

Developing “New Countryside”

1-3-8-100 Task Plan

1 Demonstration Zone: Huzhou (Holland, Japan)

3 Platforms: Innovation, Human Resources, Management

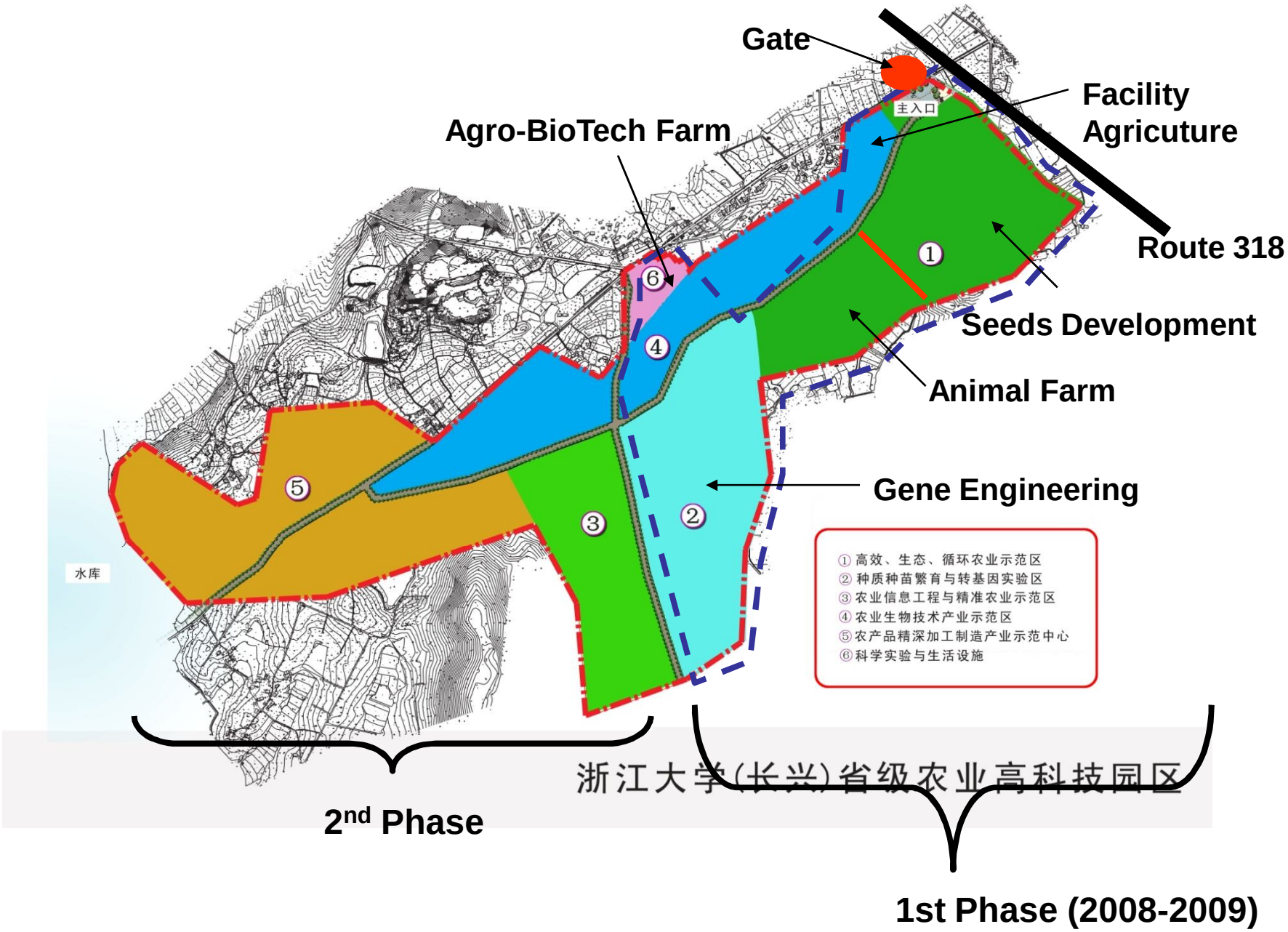
8 Thrusts: enterprise development, village planning, infrastructures, environment, public service, education, social security, urban-rural integration

100 Tasks

Developing the West

- Institute of West Development
- Planning for Shanxi Province
- Helping Guizhou Province and Guizhou U
- Helping Regions along the “West March” in WWII

Zhejiang University Plantation (Changxing County, 2Km^2)


Gate
Facility Agricuture
Agro-BioTech Farm
Route 318
Seeds Development
Animal Farm
Gene Engineering
主入口
水库
① 高效、生态、循环农业示范区
② 种质种苗繁育与转基因实验区
③ 农业信息工程与精准农业示范区
④ 农业生物技术产业示范区
⑤ 农产品精深加工制造产业示范中心
⑥ 科学实验与生活设施
浙江大学(长兴)省级农业高科技园区
2nd Phase
1st Phase (2008-2009)

Intelligent Greenhouse (Flowers, Herb Medicine, New Species)

ZJU Towards Globalization

Approach for International Partnership

- International Training for Students & Staffs
  - Sandwich —— Composite Curriculum
  - Scholarship —— Government PhD Program
  - Summer——International Exposure
- Raise Oversea Exchange Ratio & International Student Ratio to 20％

ZJU: International Collaboration

- Agreements with 140 Universities
- WUN

  (Scholars & Students Exchange, Science Bridges)
- IAU, GUNI

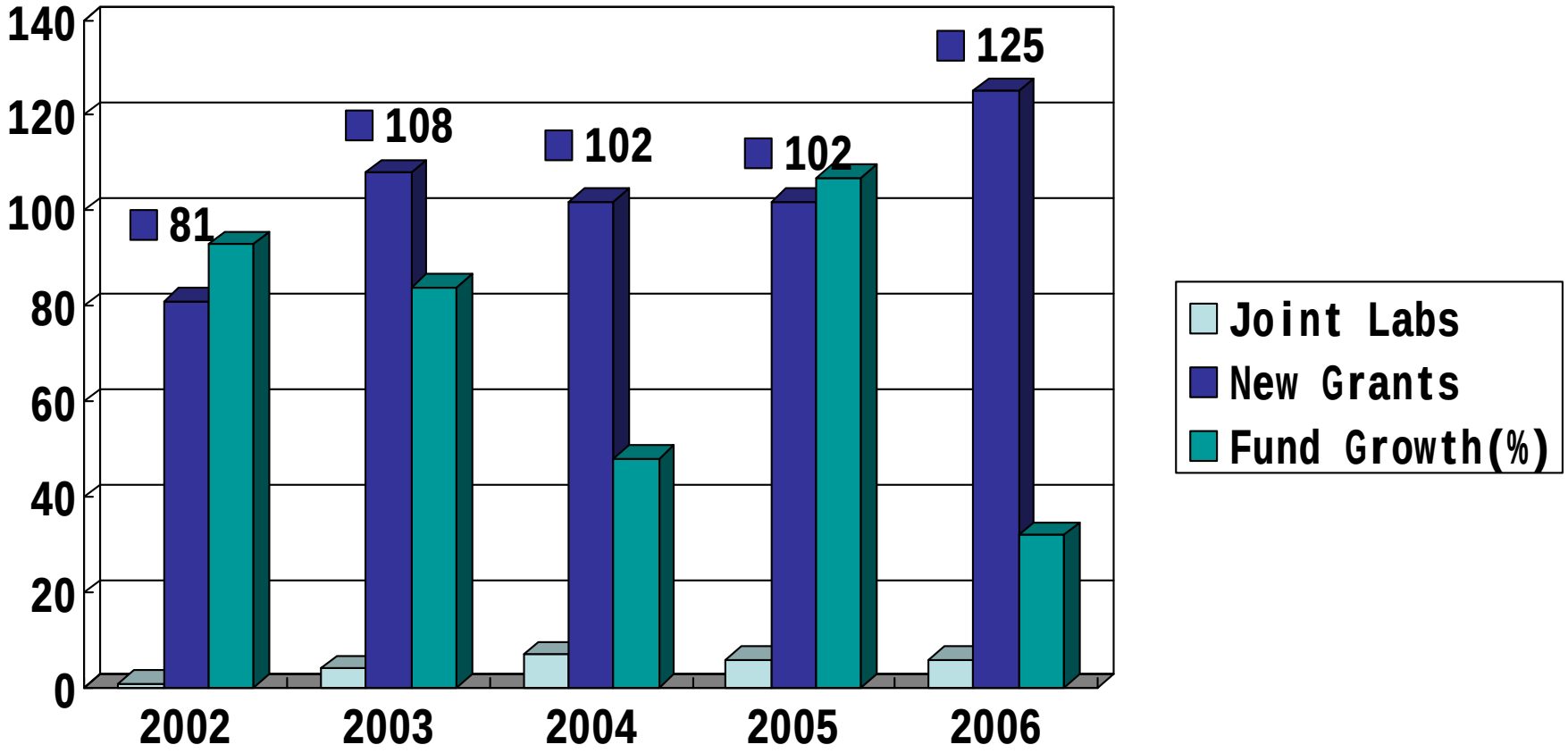
  (UNISCO, Regional Outreach)
- APRU

  (Economy-Education-Research Alliance)
- Elite Universities

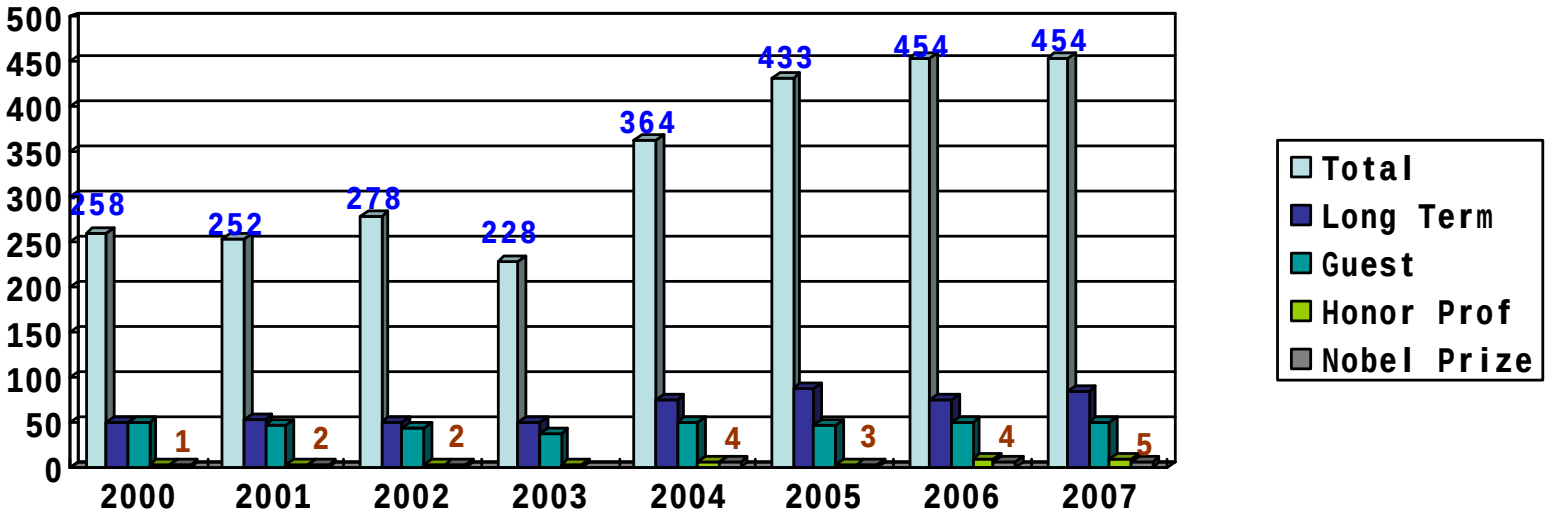
  (Brown/Ivy-League, Stanford, MIT)

APRU 11th ANNUAL PRESIDENTS MEETING
2007.5.29

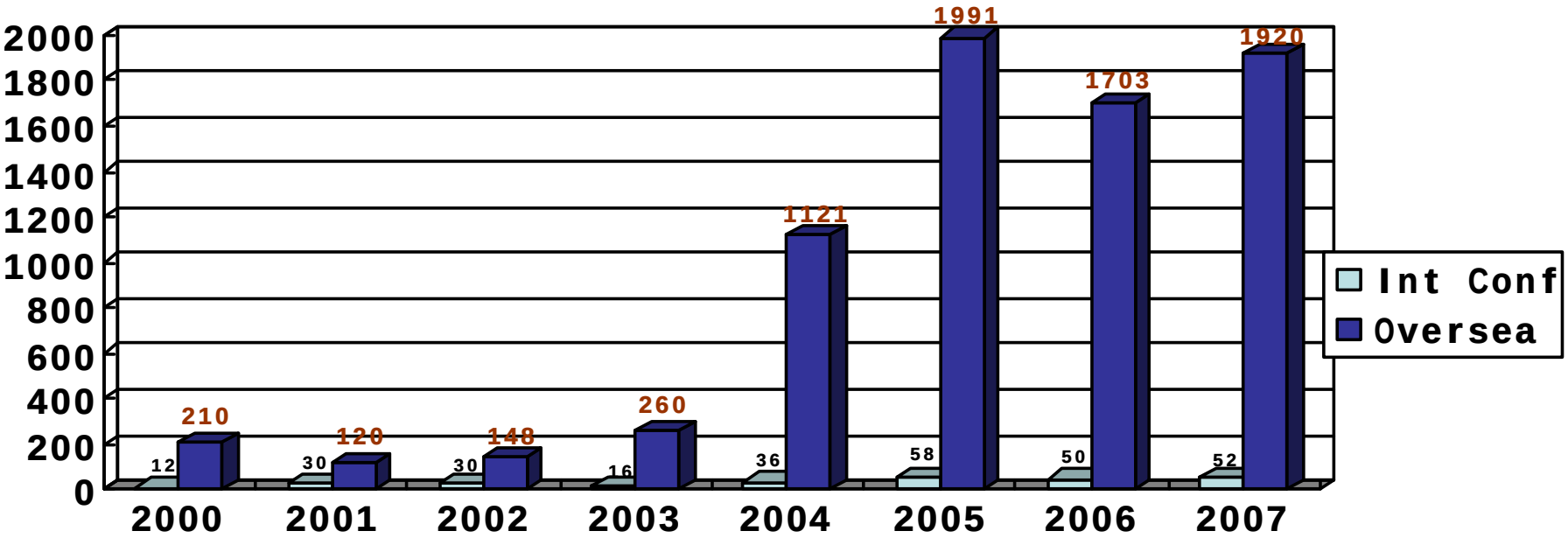
International Research Collaboration (02-06)



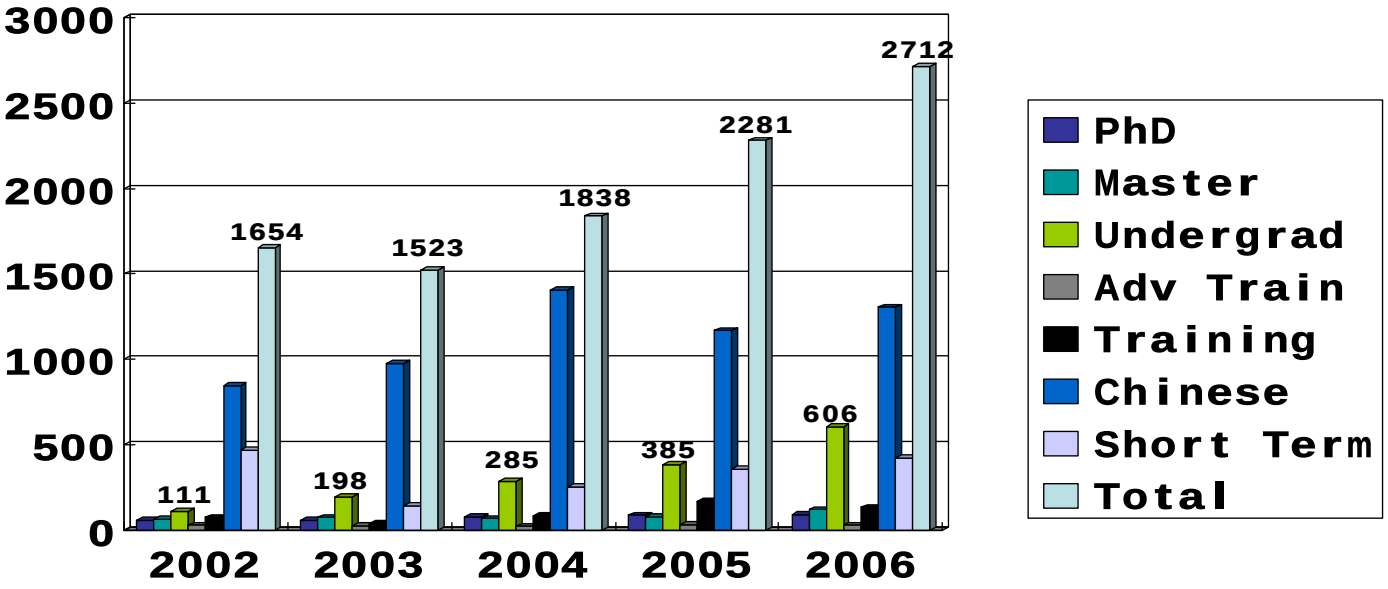
International Faculties



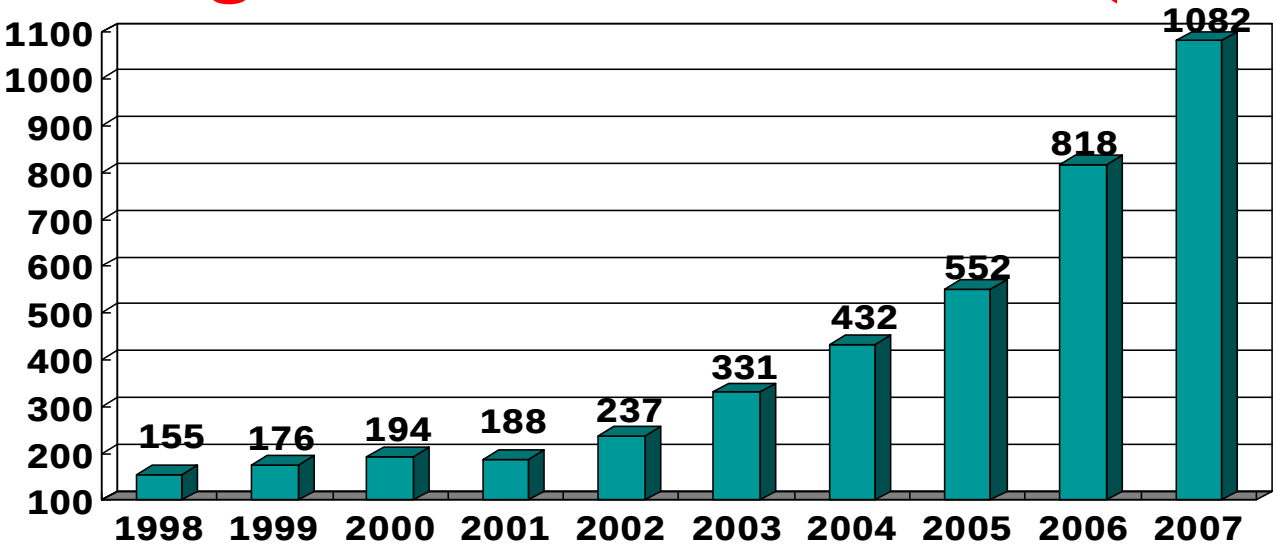
International Conferences



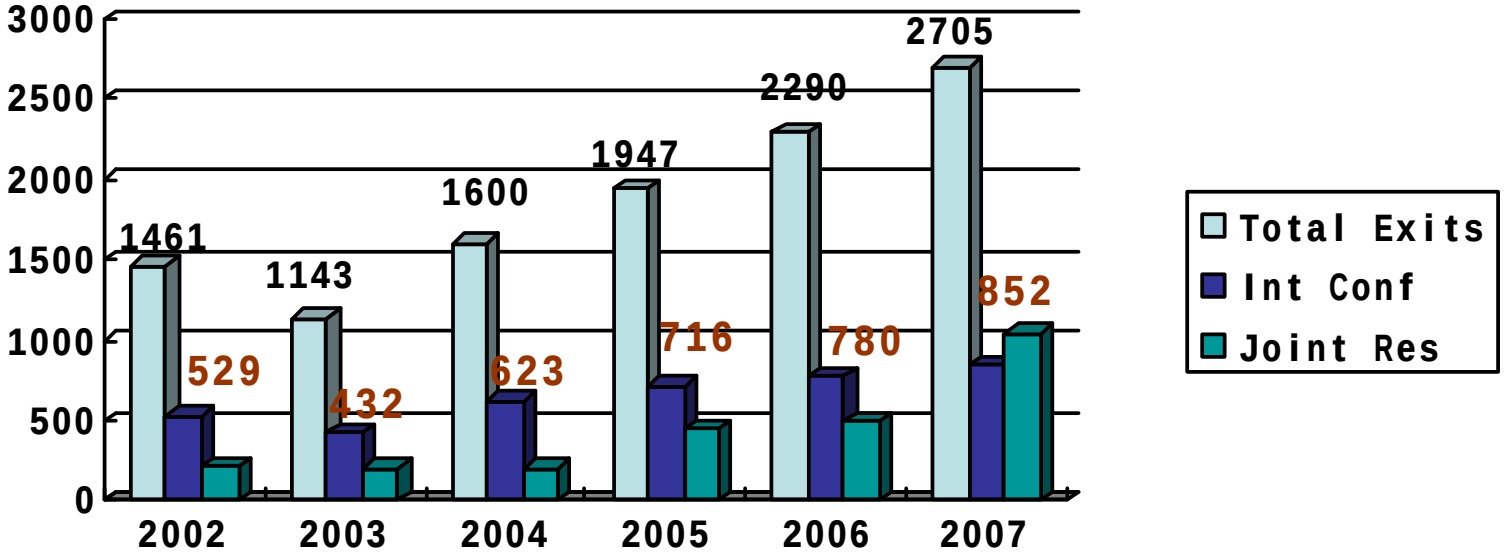
International Students



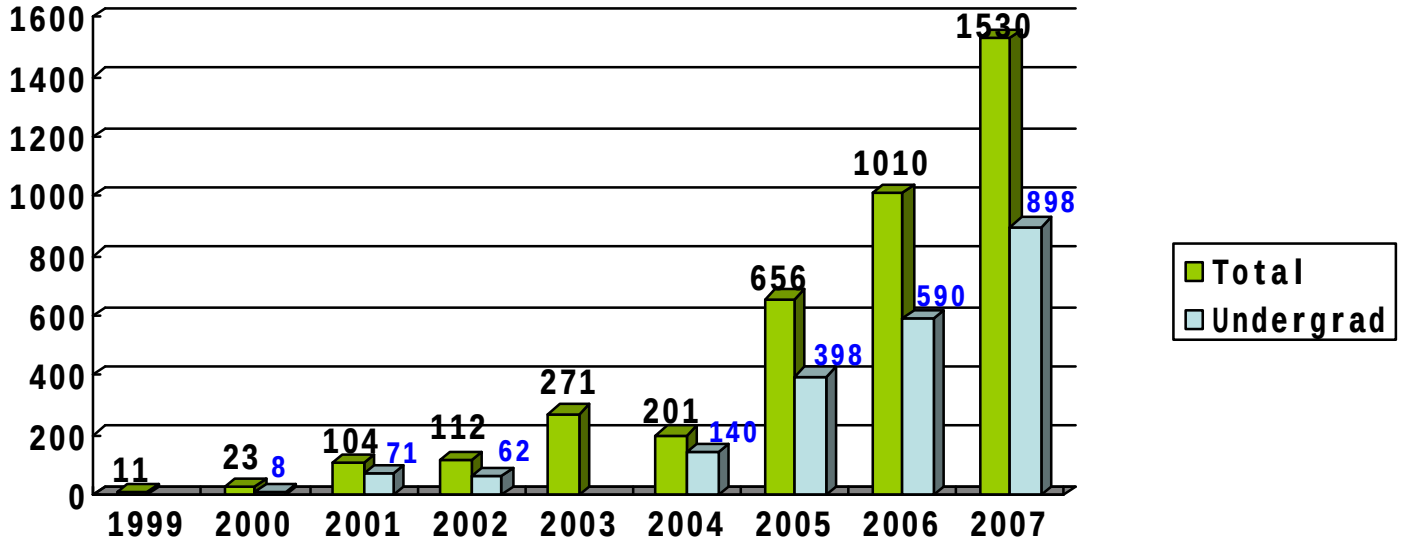
Degreed Oversea Students (00-06)



Short term oversea visits



Student Exchange



Art Performances in Universities
(USA, Russian)

Art Performance in UN HQ

CLOSING CEREMONY OF
"STUDY CHINA"

WE HAVE A DREAM !