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New Governance Models for Universities and PRIs: Equality, cooperation , mutual benefit and win-win

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- 2. Innovation and entrepreneurship is major driving force for effective technology transfer.**



1. Integration of the research & education functions of Universities and PRIs benefit society.

--Chinese Academy of Sciences (CAS) established in 1949

--UCAS established on the basis of CAS Graduate School in 2012

CAS consists of 104 Institutes, 2 Universities, total staff: 63,000+, Graduate Students: 48,000+

CAS academic division consists of CAS Members (727) and Foreign Members(64)

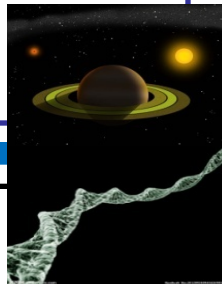
Budget : RMB 42 Billion



CAS research institutes are classified into four groups

Physical Sciences

- Mathematics
- Physics
- Mechanics
- Astronomy
- Chemistry



Resource & Environ. Sciences

- Geology
- Geography
- Ecology
- Oceanology
- Atmospheric Sciences



Life Sciences

- Botany, zoology & microbiology
- Genetics, genomics, proteomics and phenomics
- Biomedical sciences
- Agricultural sciences

High Tech

- Space science
- Opto-electronics
- Energy and materials
- Information technology
- Biotechnology



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- **The advantage of university: high risk taking individual, course system,**
 - **The advantage of PRIs: talents, infrastructures, top scientists, global cooperation partnerships**
 - **The culture difference in research: Team or individual**
 - **Pasteur's Quadrant--Use-inspired basic research**
 - **CAS has taken great efforts in promoting the integration of research institutes of UCAS since 2014**



New Governance Models for Universities and PRIs

- **PRIs work together to establish the schools of UCAS**

- the School of Mathematical Sciences of UCAS----the Academy of Mathematics and Systems Science (AMSS) of CAS.
- The School of Physical Sciences---Institute of Physics plus 4 others

Dean/executive Vice Dean, chair of Dept. from Institutes

Joint teaching groups

Joint research group of the Center of Excellence

Joint publication and books

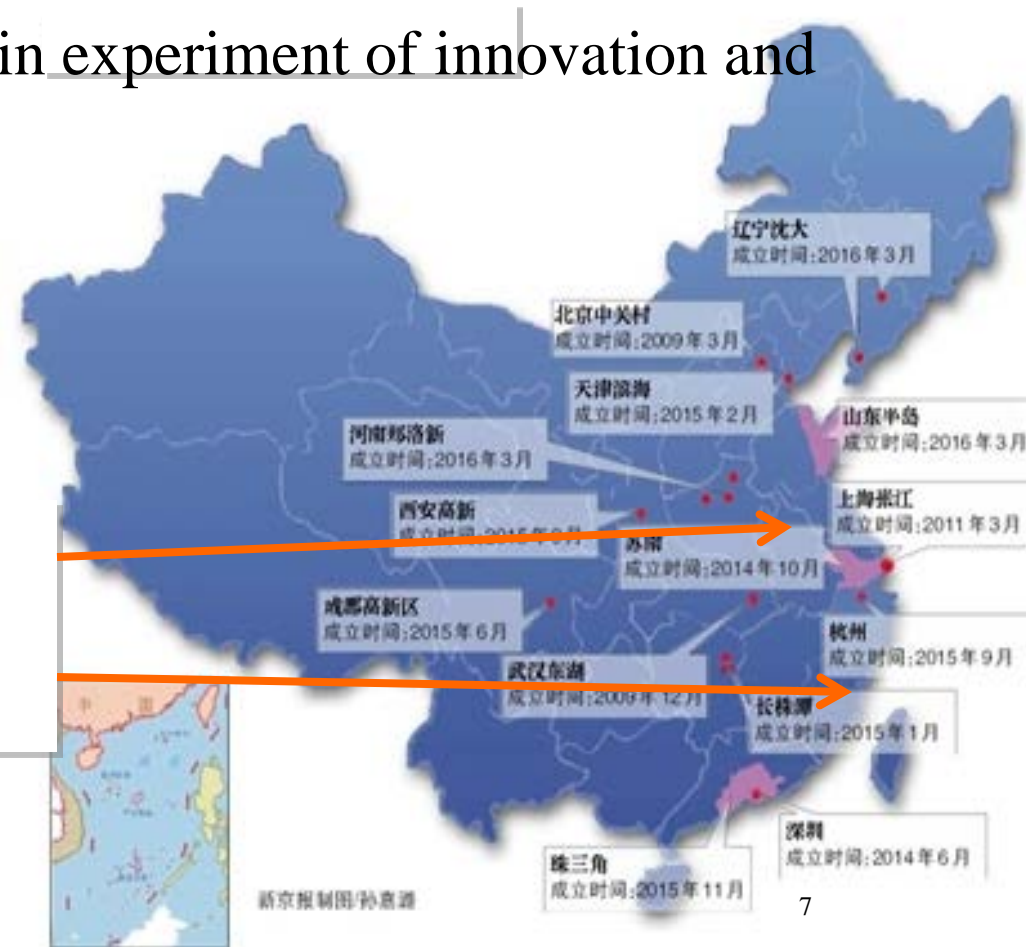
2. Innovation and entrepreneurship is major driving force for effective technology transfer

National Innovation Demonstration Zone

- National Innovation Demonstration Zone such as Zhongguancun, Donghu, Zhangjiang have played significant role in experiment of innovation and reform, and have already play an leading role in regional development.
- 16 National Innovation Demonstration Zone have been approved till June 2016.

Hefei-Wuhu-Bengbu

Fuzhou-Xiamen-Quanzhou



- Zhongguancun National Innovation Demonstration Zone has implemented a series of pilot policy since March 2009.
- Zhongguancun implemented a series of pilot policy in 2010, named “1+6”.
- Zhongguancun implemented “New Four” pilot policies in 2013.
- All of pilot policy have been implemented in all country.

Type of Pilot Policy

Equity and Dividend Incentives

Tax Credit of R & D Expenditure

Pretax Deduction of Staff Education Expenditure

Management of Scientific Research Project Funds

Equity Income Tax Paid in Installments

The right to dispose S&T achievements and to benefit the transfer of S&T achievements

SME Share Exchange Agent System

1+6 Pilot Policies

Pilot Area of Comprehensive Innovation & Reform

to remove institutional hurdles of innovation driven development by means of systematic, comprehensive and coordinated reform so as to achieve transformation of innovation driven development.

- 8 areas such as Shanghai, Guangdong, Anhui, Sichuan, Wuhan, Shenyang, Beijing-Tianjin-Hebei in 2016.
- About 172 items of pilot policies will be authorized by central government to those areas.



28 Innovation and entrepreneurship demonstration bases

Innovation Capacity-building in Firms



To establish the Tech. Development Center (TDC) at the large firms or so as to integrate S&T with economy in 1991.

Production Office of Sate Council

Some Policies on Promoting Technological Progress at Enterprises

Guoshenjigai[1992]92

State Commission on Economic & Trade

The note for Encouraging and Supporting Large Firms to establish TDCs

Guojinmao[1993]261

NDRC

Management Regulation for National Authorized Firms' TDCs

NDRC Note No.30)

NDRC

Management Regulation for National Authorized Firms' TDCs

NDRC Note No. 53

TDC1:

Technology Development

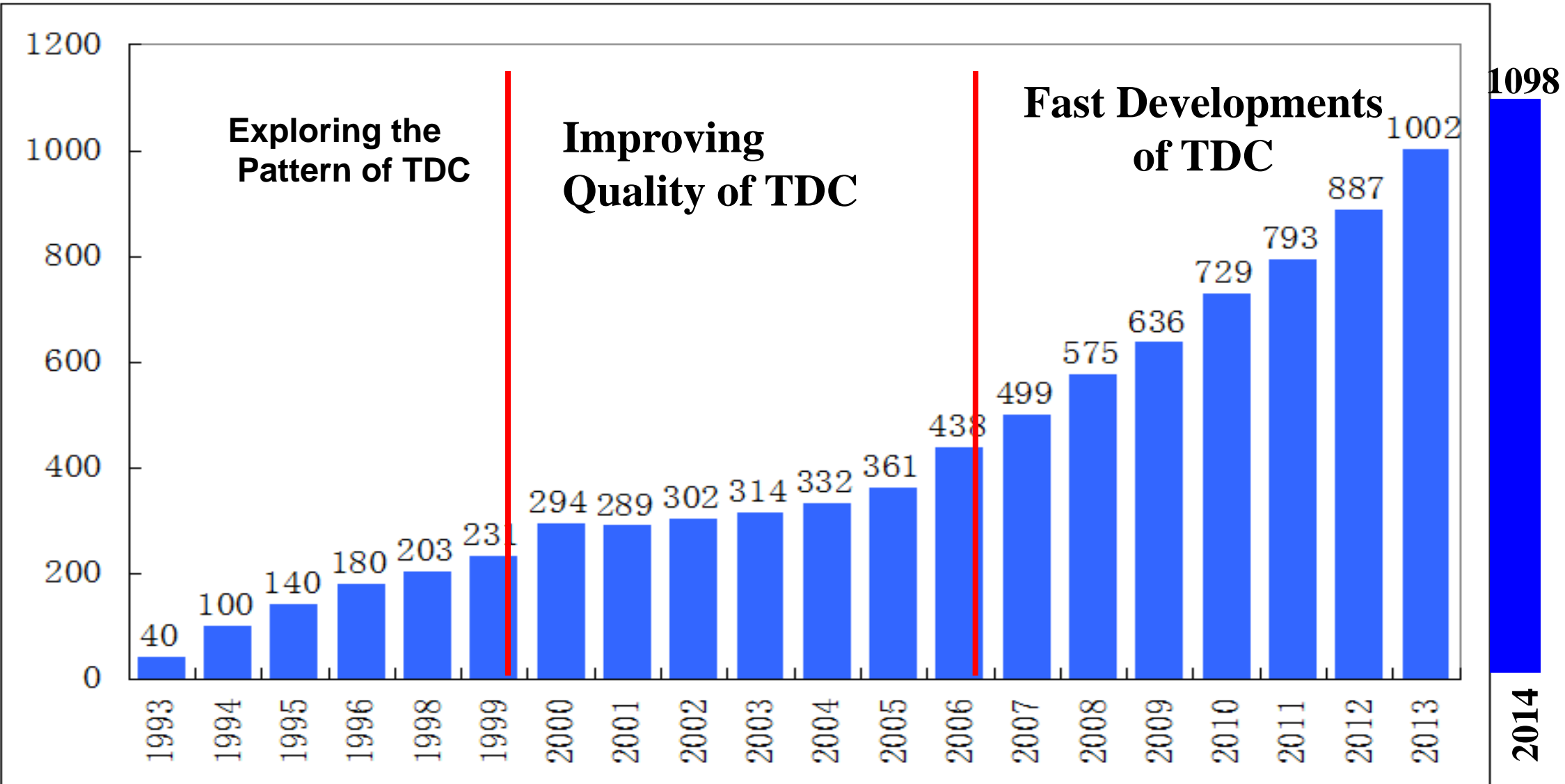
TDC2:

Technology System

TDC3:

Core body of firm's innovation system

Innovation Capacity-building in Firms





Thank you for your attention!
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