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

Prof. Dr. Mu Rongping
Director-general, Center for Innovation Development, CAS
1. Integration of the research & education functions of Universities and PRIs benefit society.

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

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

**Resource & Environ. Sciences**
- Geology
- Geography
- Ecology
- Oceanology
- Atmospheric Sciences

**High Tech**
- Space science
- Opto-electronics
- Energy and materials
- Information technology
- Biotechnology
• 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.

<table>
<thead>
<tr>
<th>Type of Pilot Policy</th>
<th>1+6 Pilot Policies</th>
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<tr>
<td>Equity and Dividend Incentives</td>
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<td>Tax Credit of R&amp;D Expenditure</td>
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<td>Management of Scientific Research Project Funds</td>
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<td>Equity Income Tax Paid in Installments</td>
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<td>The right to dispose S&amp;T achievements and to benefit the transfer of S&amp;T achievements</td>
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<td>SME Share Exchange Agent System</td>
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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 State 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

TDC1: Technology Development
TDC2: Technology System
TDC3: Core body of firm’s innovation system

NDRC
Management Regulation for National Authorized Firms’ TDCs
NDRC Note No.30

NDRC
Management Regulation for National Authorized Firms’ TDCs
NDRC Note No. 53

NDRC
Innovation Capacity-building in Firms

Exploring the Pattern of TDC

Improving Quality of TDC

Fast Developments of TDC

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YEAR: 2014
Thank you for your attention!

mrp@casipm.ac.cn