

The Forest Research in China

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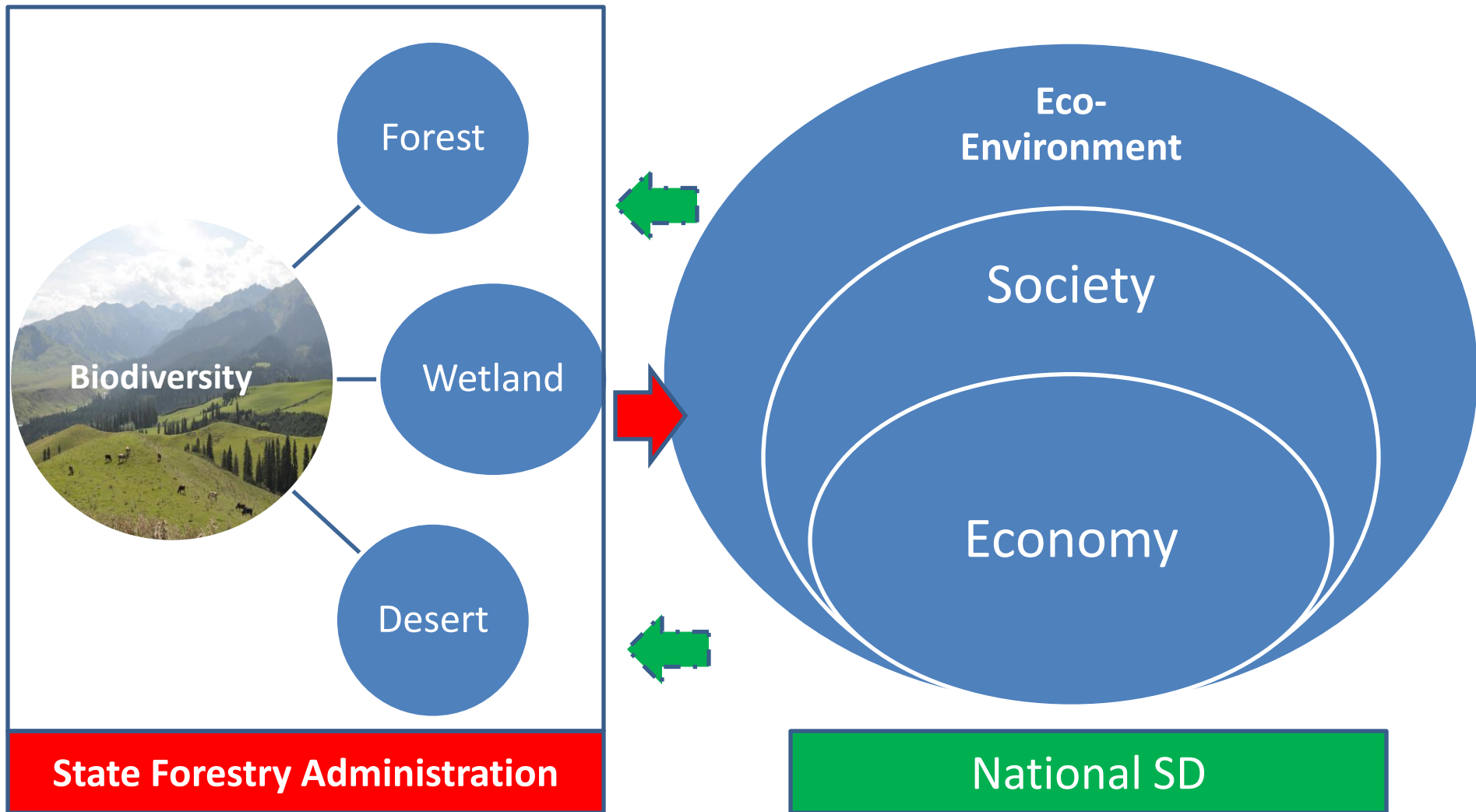
CAF, CHINA

2012 9,26, Roma

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What is Forestry in China?




Goal of FR&D

- To support the modern forestry development by facilitating the conversion of forestry development mode of China.
 - To reveal the basic features, nature and technologies of forestry.
 - Establish a innovative mechanism and a effective management system of Forestry Science and Tech.



Research?
You can find it
everywhere!



Study on
policy
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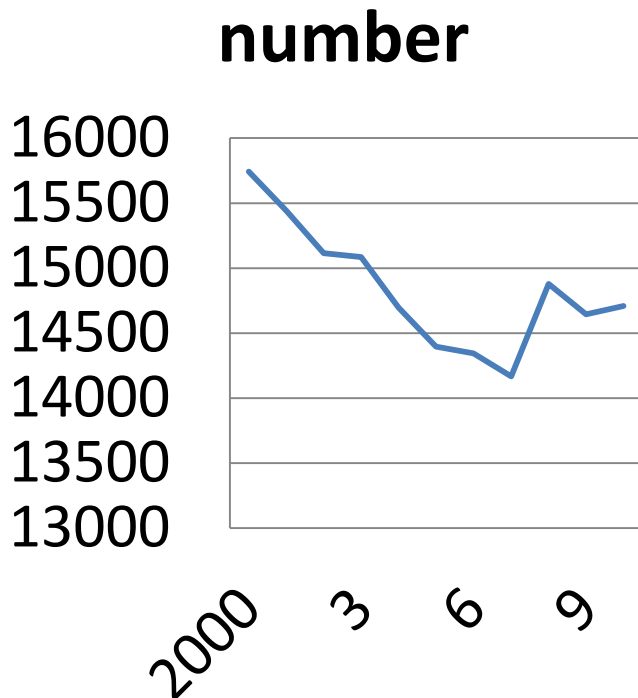
Priorities...2015...2020

1. forest tree breeding: New plant varieties
Creation/formulation, biotechnology, conventional breeding;
2. Sustainable Forest Management
3. Ecosystem and Environment (landscape) Restoration and protection
4. Forestry Bio-industry
5. Forestry and Climate Change
6. Information Tech. Development, including MAR on ecosystem.
7. Forestry Policy, Economy and collaborative Governance

Number of people on Forestry Research

• Agencies

1. CAF with 18 institutes and 4 regional experimental center
2. 5 regional forestry Univ.
3. 30 provincial research institutes and extension centers respectively
4. More 300 local R&D institutes
5. 5 institutes closely concerned Forestry in CAS
6. Other Univ.



- Chinese Society of Forestry

Programs for supporting FR&D in China

- **Programs for R@D——MOST, MOF, NSFC, SFA, INTL, PRIVATE**
 1. **973——focus on national key basic scientific issues; MOST**
 2. **NSFC—— scientific Exploring, basic research, including a National Science Fund for Distinguished Young Scholars**
 3. **863——High and New Tech. development, MOST**
 4. **S&T Support Program——To support national Programmes by Tech. development and integration; MOST**
 5. **Public welfare Research program for Industries——To meet and focus on professional/industry demand, MOF**
 6. **Basic Work Program——to focus on investigation and condition establishment for reveal the status of the world. MOST**

Programs for supporting FR&D in China

7. **948**—introduction technical and varieties from other countries, **SFA, MOF**

8. **Department Special**—professional mission form **SFA**

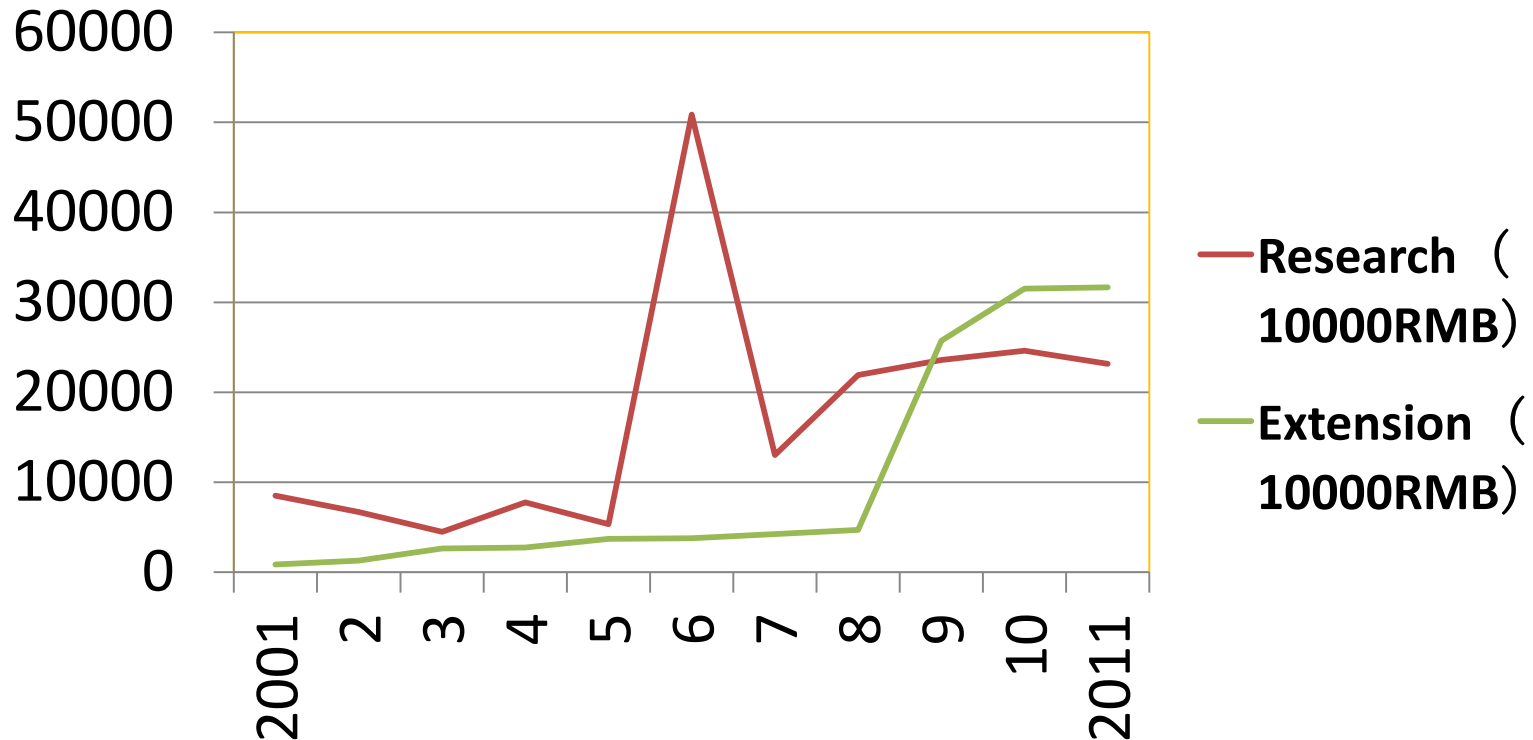
9. **Reformation Foundation**—for facilitating the reformation of R&D, to support the Youth under 40 years old, **MoF, MOST**

10. **Intl cooperation** (China) —Government (Options and Money) , MOST + International (Options and Money) .

11. **private**

- Special financing channel for promoting the conditions, **MOF**

Investment in Forestry Research from SFA only



It is very difficult to make accurate statistics on the input to FR&D, because the money comes from different departments at both national and local level, specially, when the forestry became a star/hot point.

The key efficiency indicators for R&D in **CAF** from 9th to 12th 5 year plan (2011)

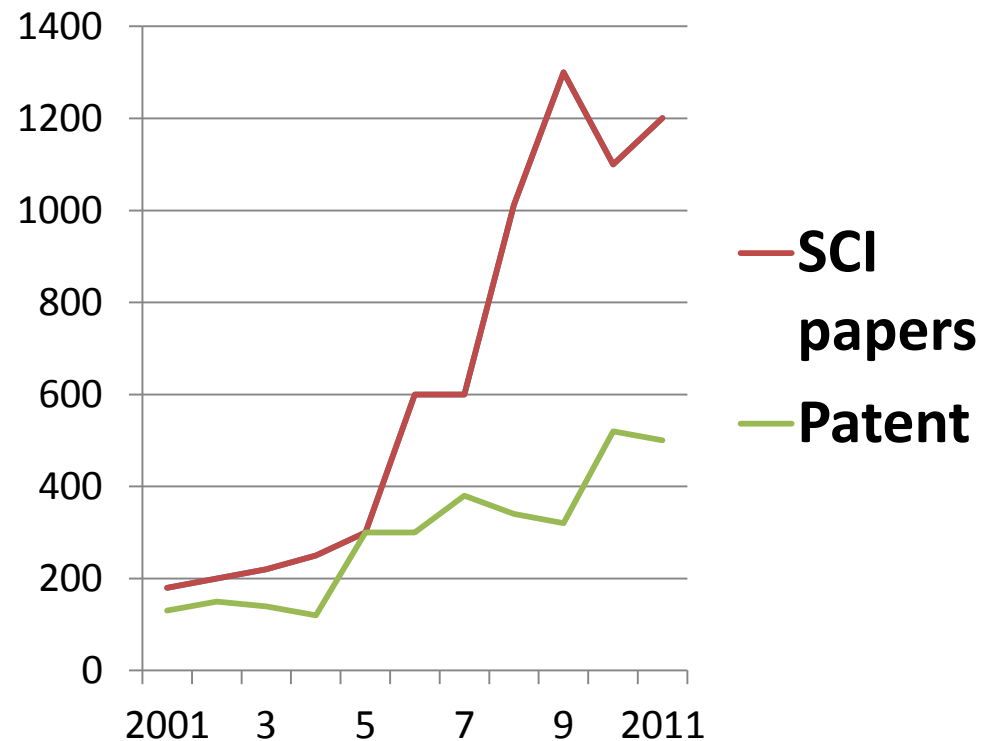
Time/stages	Numbers of projects	Funds (million)	National Award	Papers (SCI)	patent
1996-2000 9 th	364	290	10	2720 (228)	24
2001-2005 10 th	890	486	6	3055 (205)	70
2006-2010 11 th	694	960	11	4232 (374)	154
2011-	209	490	1	1376 (284)	125

Achievements of FR&D obtained at National level

- SCI
- Patents
- National Award

2005	6
2006	7
2007	5
2008	6
2009	5
2010	5
2011	6
2012	7

- National Reports
- Intl position and conference
- GDP & GGDP
-



Measures and experiences

1. National demands are the most important guidelines for all national FR&D programs——
Ecosystem, Environment + Livelihood.
 - Ecosystem development, restoration, climate change, water, biodiversity,
 - wood processing, bio-energy
 - wetland, combating desertification
 - Forestry economy, social forestry, and so on
2. And you can also go a special fund if you need a freedom of speculation, thought, and inquiry.
3. To highlight the organizational system of FR&D from central government to the local.

Measures and experiences

4. Increasing investment year by year.
5. Different measures to accelerate the team/group establishment.
 - **overseas returnees ;innovative team;**
 - **100,1000,10000** talent programmes
6. The integration of production, teaching and research in a variety of approaches to support Forestry development.
7. Training and publicizing new techniques and know-how.
8. International cooperation is very important _idea, methodology and seed money_ The priest from abroad has an easy time preaching..

Challenges

- Overlapping of research plan/projects, and Transparency of project selection
- Long-term research plan for those pilot and key programs
 - long-periodic
 - Multifunction
 - short-sighted political/management action
- Assessment and auditing system on F_R&D
 - Papers? Patents
 - Demand-oriented F_research?
- Ability of Innovative research, which concerns education...
- Research of Policy and Management , and Integration and application of Policy research, basic Research and technical development
- ...

What is Forestry?

Forestry is the best answer for all eco-environment problems?

Everything will become better
as long as.....

Thank You for Your Attention