## Forest Carbon Sequestration Development Strategy of Beijing

Dr. Wang Xiaoping Beijing Municipal Bureau of Parks and Forestry Dec 16th 2008



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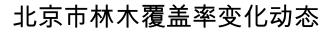
Countermeasures of forest carbon sequestration development in Beijing

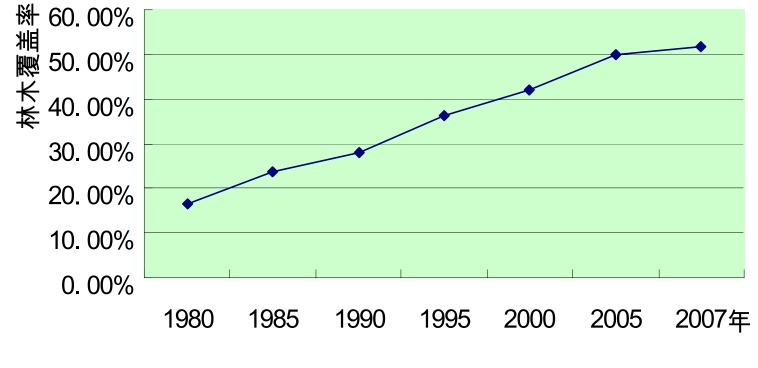






Rapid development of Beijing forestry and impressive increase of forest resource total amount

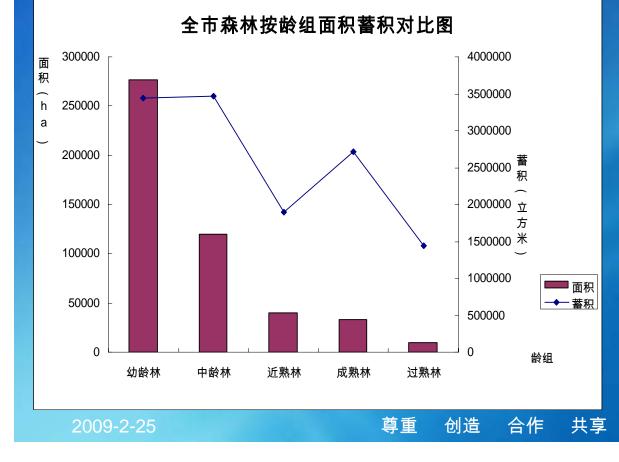








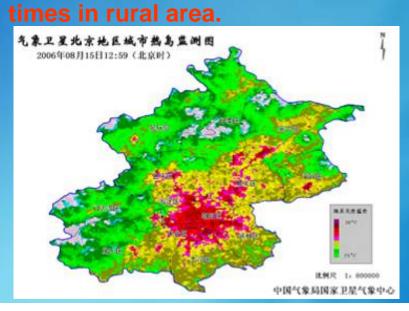
### Rapid development of Beijing forestry and impressive increase of forest resource total amount



At the end of 2007, the total forestland area in the city has reached 1.0579 million ha, together with the forest tree coverage in the city reached **51.6% and forest coverage reached 36.5%**.

Beijing Forest is mainly composed of **public benefit ecological forest**, that contributes greatly to Beijing's environment.

Beijing Municipality has a total area of 16.4 thousand Sqkm, in which mountains take 61.4%;
up to 2007, total population of Beijing is 16.33 million composing of 10.30 million in downtown and 500 million in rural area: density in downtown is 63



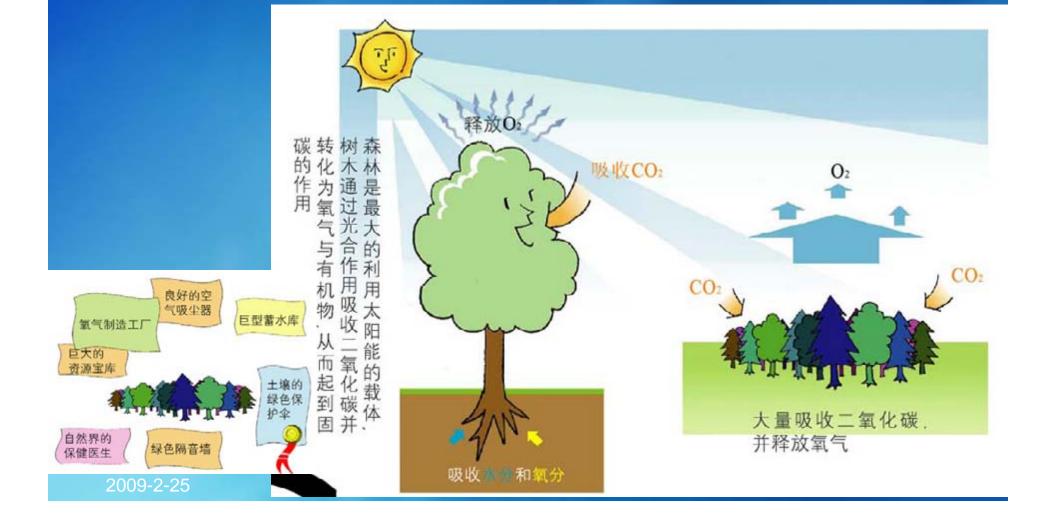




Gap between the rich and the poor in downtown and rural area dramatically widens along with rapid social economic development.



### Carbon sequestration: easier measuring eco service







- A exclusive option to balance regional development;
- The necessity to build a ecological livable city of Beijing;
- Provide demonstration for the carbon sequestration development in other parts of China;
- Fulfill the "China National Blueprint on Addressing Climate Change" and "China Short and mid term Lay-out Program of Development of Science and Technology". To improve the capacity of carbon sink and emission reduction of forest eco system.



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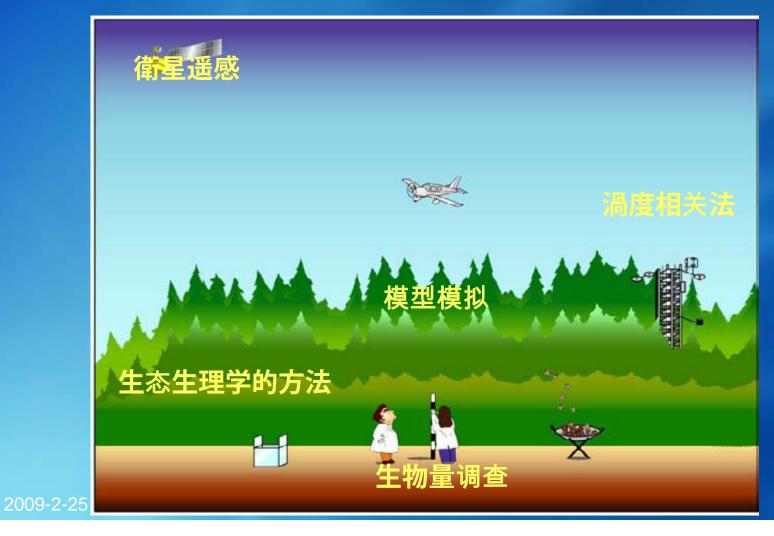
#### Carried out studies on forest eco-service value and preliminarily made clear the carbon storage in forest resources in Beijing

Up to 2007, the total carbon storage in forest resources in Beijing was 110 million tons, the annual increase of carbon storage in forest resources (carbon sequestration) is approximately 9.72 million tons and annual release of oxygen is approximately 7.1 million tons.

 $\checkmark$ 



### Studies on forest carbon sequestration are carried out in succession



### Studies on forest carbon sequestration are carried out in succession



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Set permanent sample land

### Studies on forest carbon sequestration are carried out in succession



类型	单位面积碳储量 (吨/公顷)	单位面积年碳汇量 (吨/公顷/年)
人工柞树林	10.57	6.51
天然柞树林	11.02	7.21
人工杨树林	29.96	8.50
天然山杨林	13.09	10.70
人工侧柏林	8.78	2.14
天然侧柏林	11.83	3.58
人工油松林	22.13	3.95
天然油松林	19.72	5.20
人工落叶松林	13.37	10.22
人工刺槐林	11.76	13.98
天然桦树林	18.62	7.21
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#### In 2008, Beijing Municipal Bureau of Parks and Forestry officially initiated "SINOPEC Carbon Sequestration Project of



The Decision makers particularly emphasized and actively promoted forest carbon sequestration work

### In May 2008, Mr. Liu Qi, the Secretary Municipal Committee



The Decision makers particularly emphasized and actively promoted forest carbon sequestration work

> Multiple participation in discussion on improving





### Formed a platform for public participation



China Green Carbon Fund has been established in 2008, though which website public could join in carbon compensation.



## Publicity of forest carbon sequestration moving on smoothly

In March 2008, the large public transportation publicity campaign "Eco-science Popularization and Forest Sequestration" was







## Specific trainings of forestry carbon sequestration organized regularly



Rounds of forest carbon sequestration training activities were organized by Beijing Municipal Bureau of Parks and Forestry in 2008





#### The first zero-emission call for in Beijing

尊重

创造

#### The first carbon buyer in Beijing





**Public Joining in Carbon Compensation** 



School students of Beijing joined in "Joining in carbon compensation, eliminating your carbon emission" event



尊重

2009-2-25

### Public Joining in Carbon Compensation



In Beijing Municipal Bureau of Parks and Forestry, the event of "facilitating green Olympics, joining in carbon compensation"





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Public unfamiliar with carbon sequestration





- Insufficient studies on forestry carbon sequestration concerning theories, technology and policies :
  - Eack of methods and criterions of forestry carbon sequestration measuring, monitoring, certification, Check and others;
  - 8 Lack of rules and policies of carbon sequestration administration and trade;
  - Eack of technical criterions of carbon sequestration afforestation, management and sequestration increase control in Beijing region.



Insufficient forest eco system compensation mechanism









Low forest carbon sequestration function

forest resource quality, insufficient forest carbon sink function

CONTENT REGION	Per volume (M <sup>3</sup> )	Carbon storage ( ton/ha )
Global forest cover	99.85	71.5
China forest cover	71.21	44.9
Beijing forest cover	28.57	21.0
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More attention paid to carbon sequestration concerning publicity, training and application of sequestration increase technology.





Carry out theoretic study on forest carbon sequestration and pilot demonstration

- Research and set up the methodology system of forest carbon sequestration measurement, monitoring and evaluation in Beijing;
- Study the fundamental theory of forest carbon sequestration, sequestration increase adjustment and control technology, and set up demonstration area;
- Explore to set up carbon flux monitoring network of forest ecosystem in Beijing;
- Study and formulate carbon trading management policy of Beijing and relevant rules;
- Gradually complete and improve the introduction, management and implementation procedures of carbon sequestration project, as well as promote effective implementation.



- Complete and improve the forest eco-benefit compensation mechanism in Beijing
  - The carbon sequestration capacity is an important index to evaluate healthy development of forest eco-system;
  - Combine the collective forest tenure system reform and promote the formulation of eco-compensation policy with forest carbon sequestration benefit compensation as the threshold and main evaluation index;
  - Implement fundamental compensation on the basis of rights and interests of rural collective-owned economic organizations and farmers' as the owner of ecological forest in mountainous area, and efficiency compensation on the basis of carbon sequestration value due to changes in size and quality of ecological forests.

Improve forest healthy management, to increase forest stands quality and forest carbon sequestration

A afforestation programme in 45 thousand ha of barren land launched, and healthy management on 460 thousand ha of low function public benefit forest started.







Facilitate carbon compensation in Beijing through the China Green Carbon Fund Beijing Project





Strengthen international cooperation, facilitate carbon sequestration development





## Thanks!

Please visited these websites for more inforemation : www.bfdic.com www.bjfs.org.cn

