

Presentation given at the Southeast Asia Katoomba meeting

Katoomba XVII

Taking the Lead: Payments for Ecosystem Services in Southeast Asia

June 23-24, 2010

Hanoi, Vietnam

Hosted by:

Forest Trends, the Katoomba Group, Ministry of Agriculture and Rural Development (MARD), Ministry of Natural Resources and Environment (MONRE), United States Agency for International Development (USAID) and Winrock International



This workshop was generously supported by the American people through the United States Agency for International Development (USAID), under the terms of the TransLinks Cooperative Agreement No.EPP-A-00-06-00014-00 to the Wildlife Conservation Society (WCS). TransLinks is a partnership of WCS, The Earth Institute, Enterprise Works/VITA, Forest Trends and the Land Tenure Center. The contents are the responsibility of the authors and do not necessarily reflect the views of USAID or the United States Government.

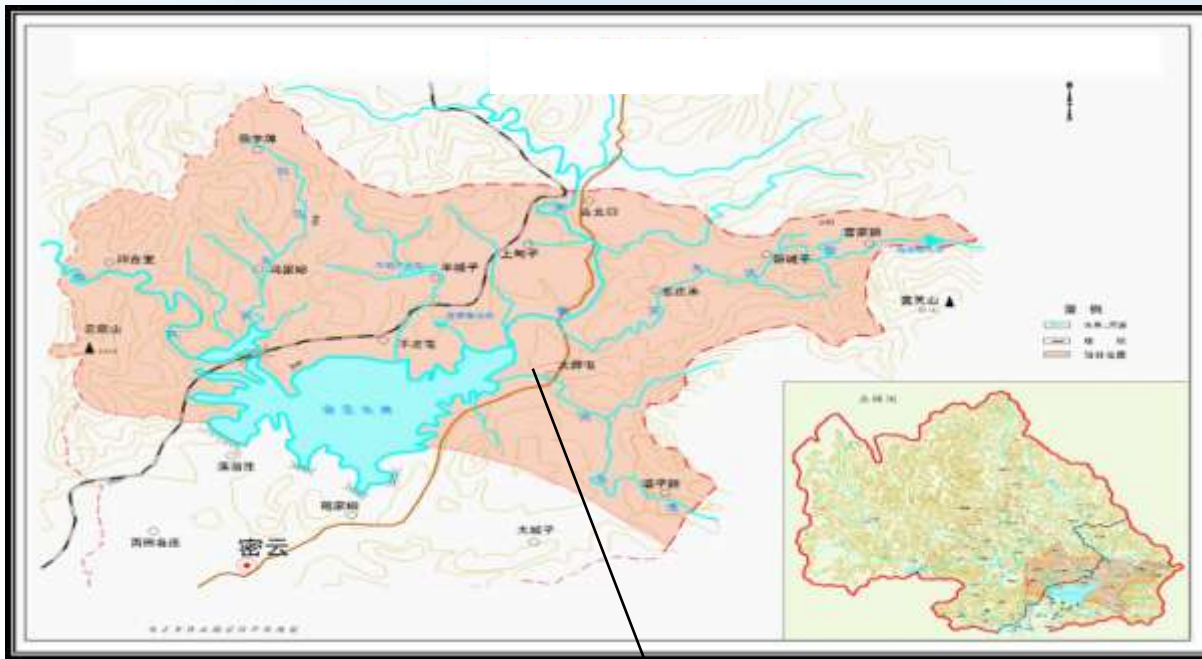
Practices of PES in Miyun Watershed: Stacking and Bundling

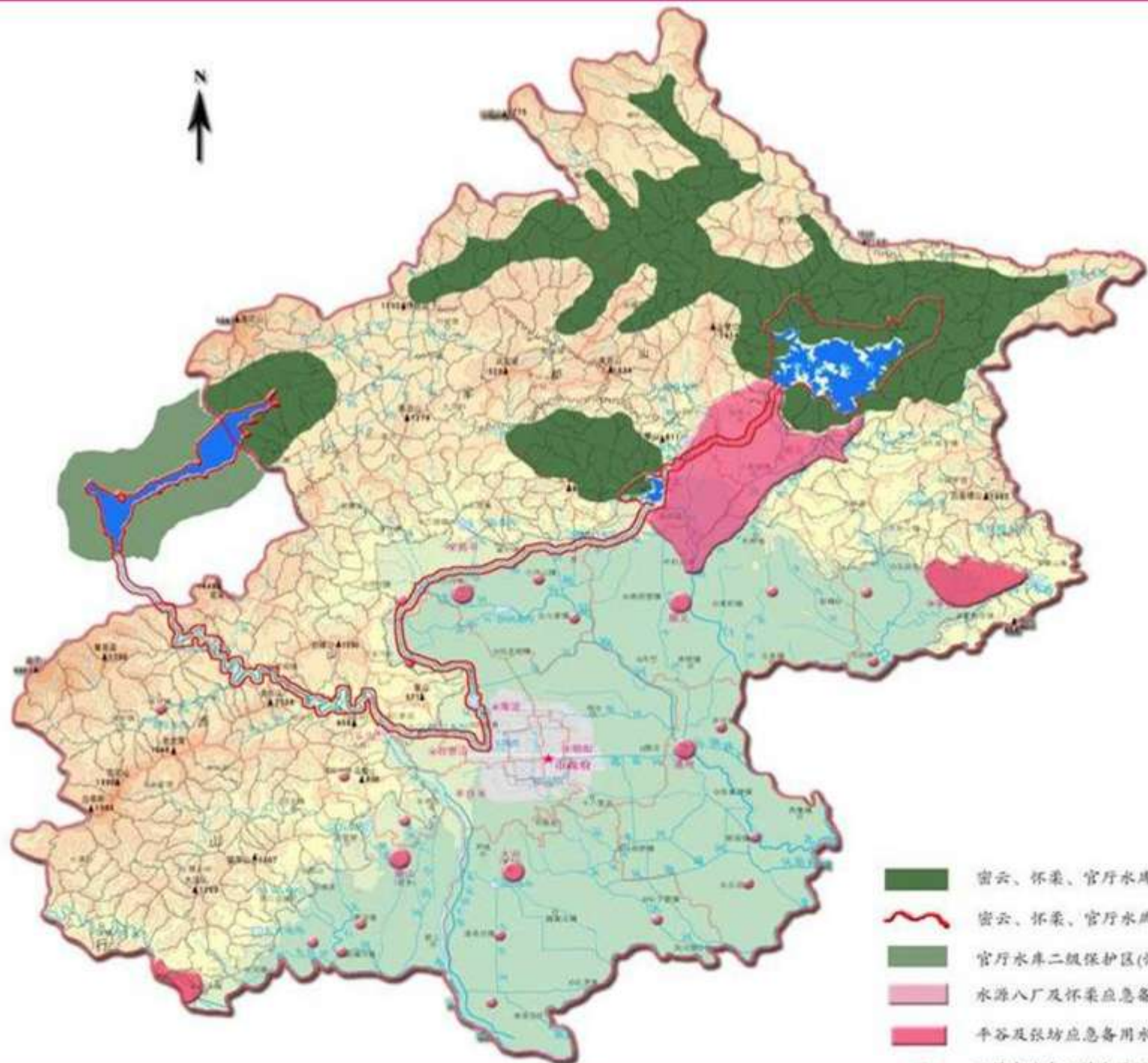
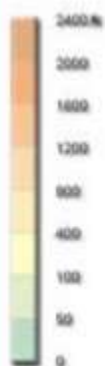
Dr. Wang Xiaoping

Beijing Forestry Carbon Administration (BFCA)
Beijing Forestry and Parks Administration (BFPA)
Beijing Forestry Society (BFS)

June. 24, 2010

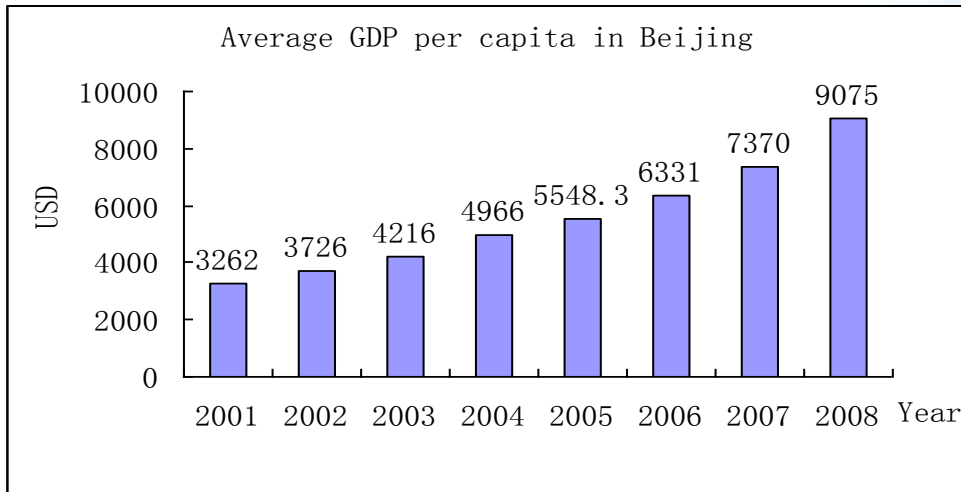




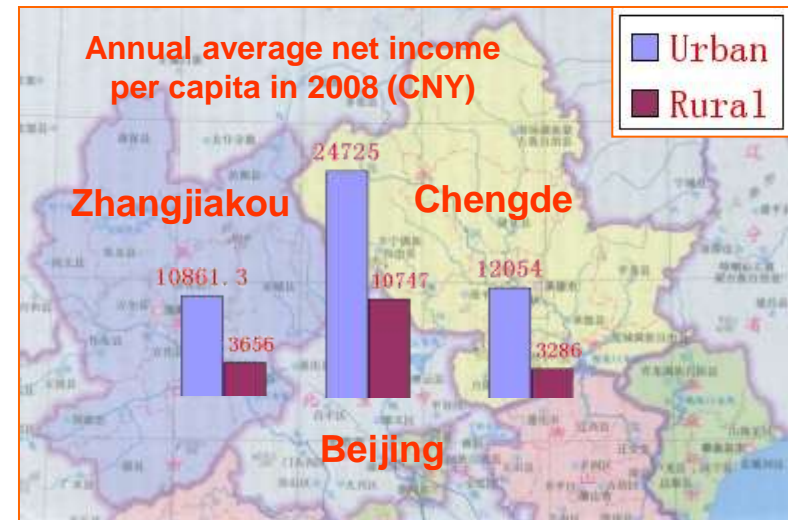


Background

❖ Unbalance economic development



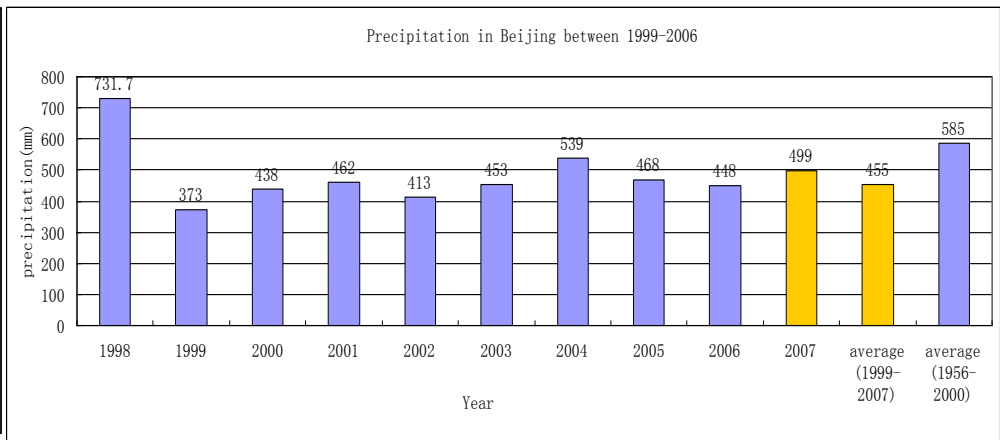
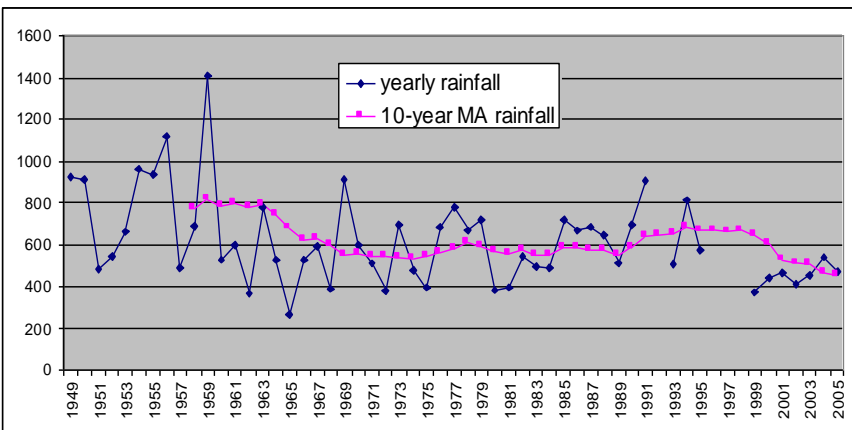
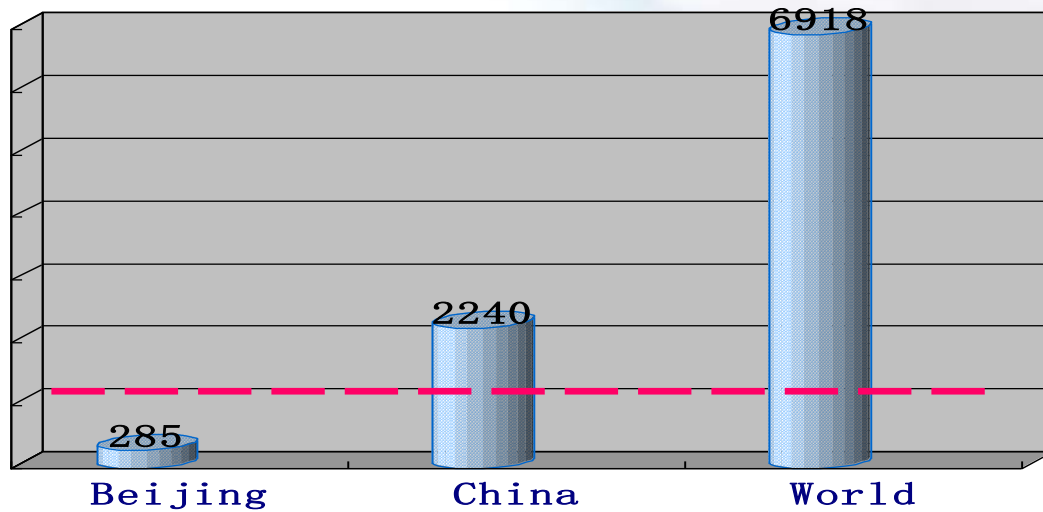
🍃 In 2008, in Beijing, the income of urban residents is two times more of the rural.



Background

❖ Water resource shortage and pollution

cubic meter of
water Per capita

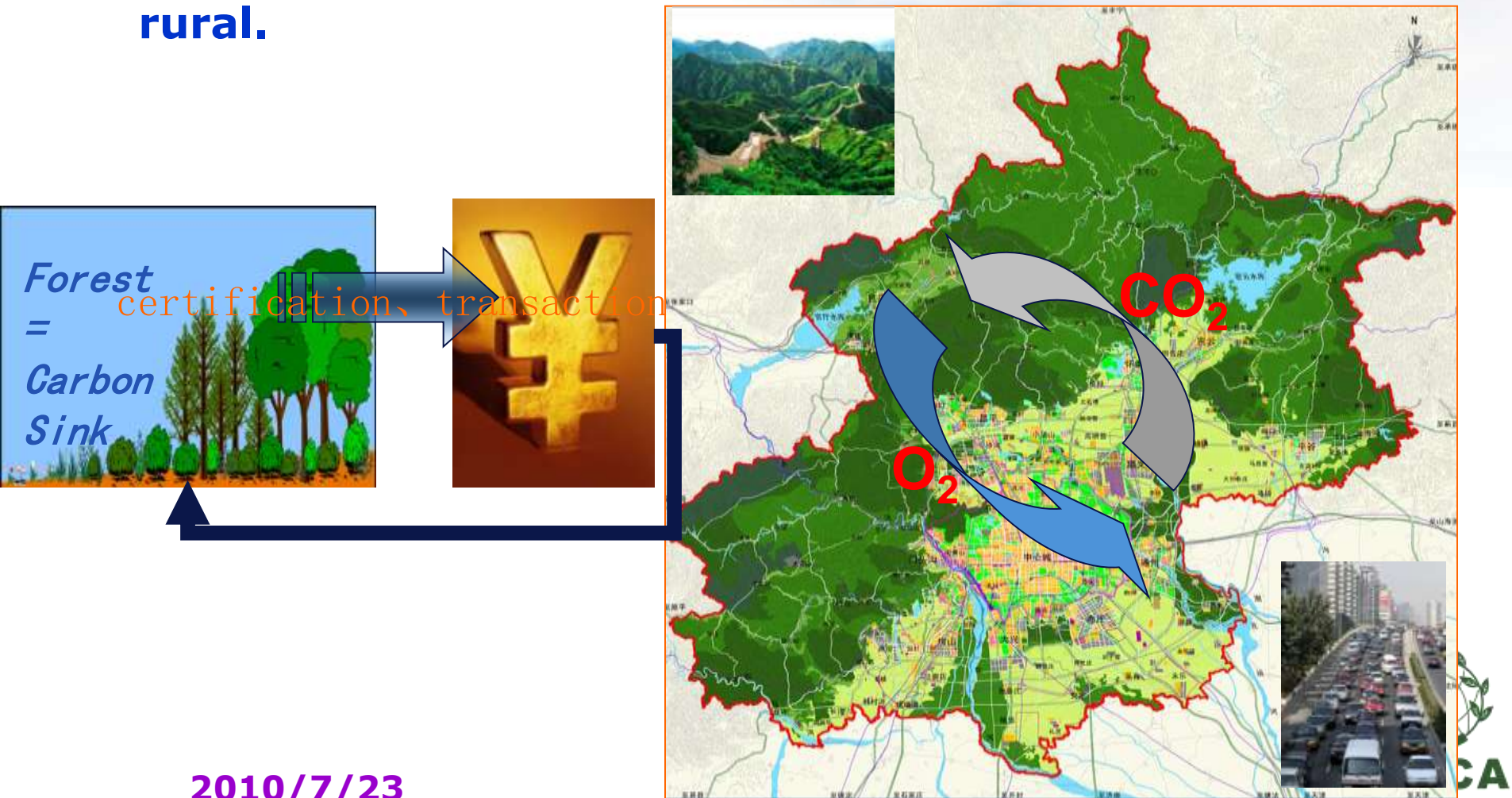


Water level in Miyun Reservoir



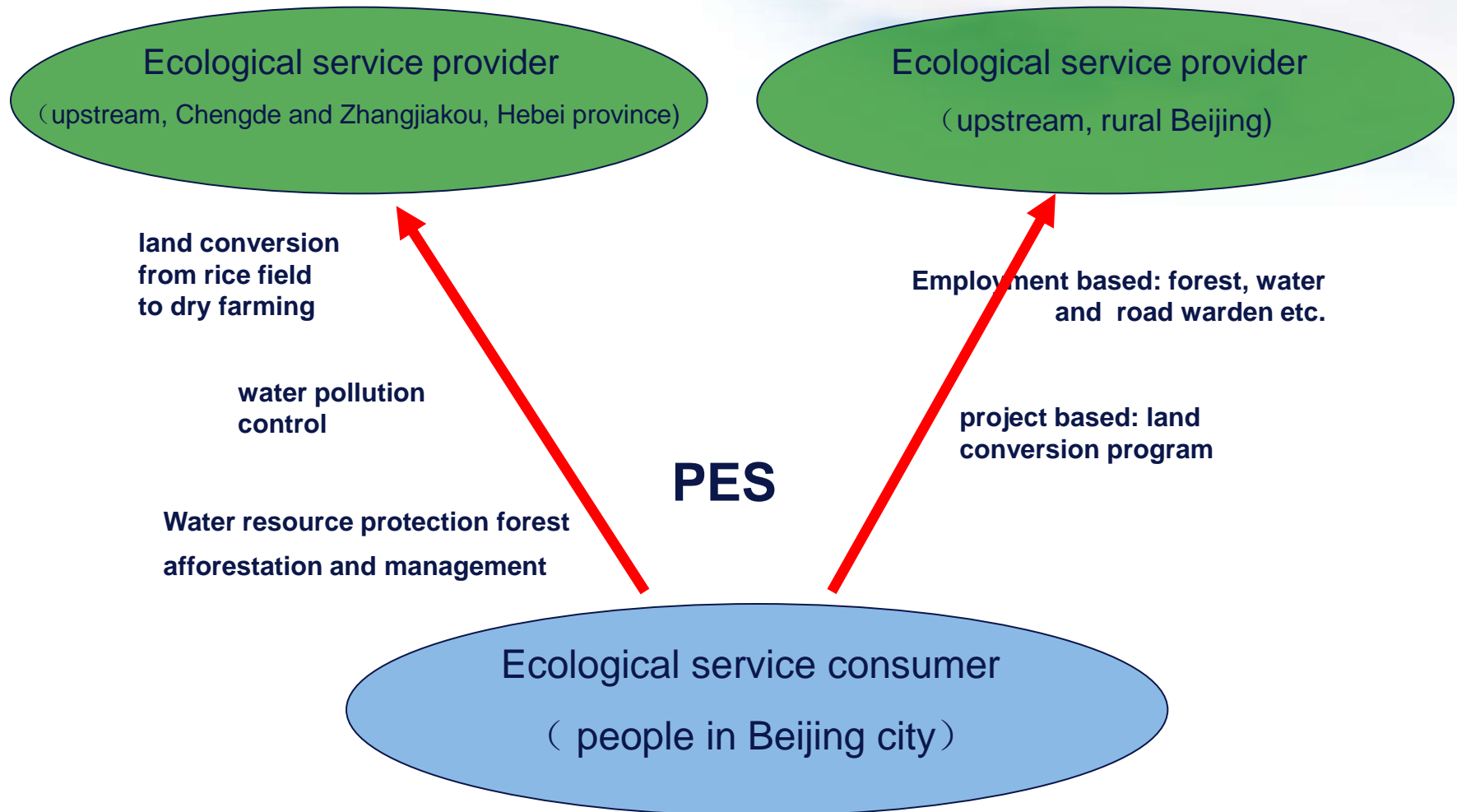
Background

- ❖ **Forest carbon** is considered as an effective tool to balance the economic development bet. Urban and rural.



Practices

Payments for ecosystem services



Inter-regional Cooperation

- ❖ In 2006 and 2008, the governments of Beijing and Hebei signed the *Memorandum and agreement on Consolidation of Cooperation in Economic and Social Development* respectively.
 - construction of the traffic infrastructure
 - protection of water resource and eco-environment
 - development of energies
 - industrial adjustment
 - industrial park zones
 - agriculture
 - tourism
 - labor service and public health.



land conversion from rice field to dry farming

- ❖ Beijing and Hebei has been cooperating to replace rice paddies (12,200 hectares) by Low water-consumption crops (maize) to reduce water consumption since 2007.
- ❖ Subsidies \$1350 /ha/year.



Employment opportunities

- ❖ Forest warden
- ❖ Water warden
- ❖ Rural Cleaners
- ❖ Rural Roads warden
- ❖ Land and Mine Resources Warden

Till end of 2008, created 100,000 ecology-related new jobs!

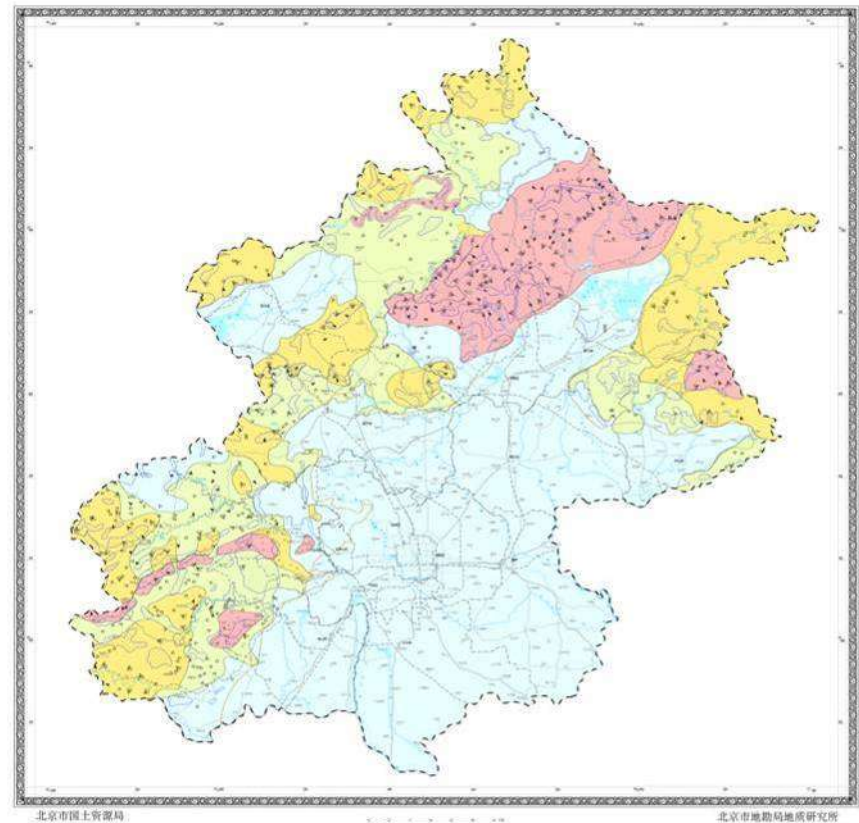


Ecological migration

- 40% of the mountainous area of Beijing is situated in high risky area of debris flow. About 6,000 people a year.

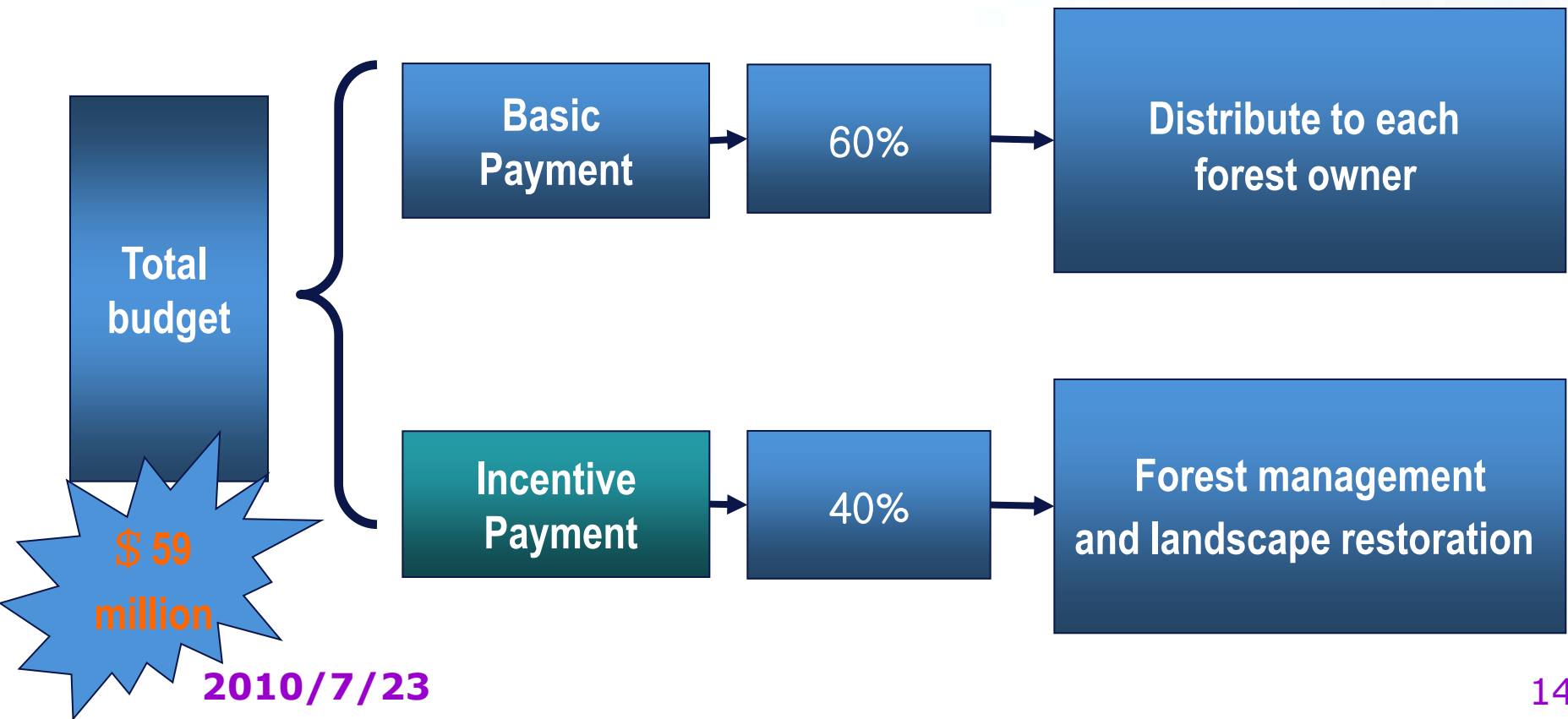


北京市突发性地质灾害易发区划图



Set up a PES Mechanism

- ❖ From 2010, Beijing will provide **\$ 59 million** each year to establish a PES mechanism (called Mechanism for development and encouragement of Eco-benefit). The funding will be adjusted every **5 years** based on the change of **ecological services, level of carbon stock** and economic development.





BFCO

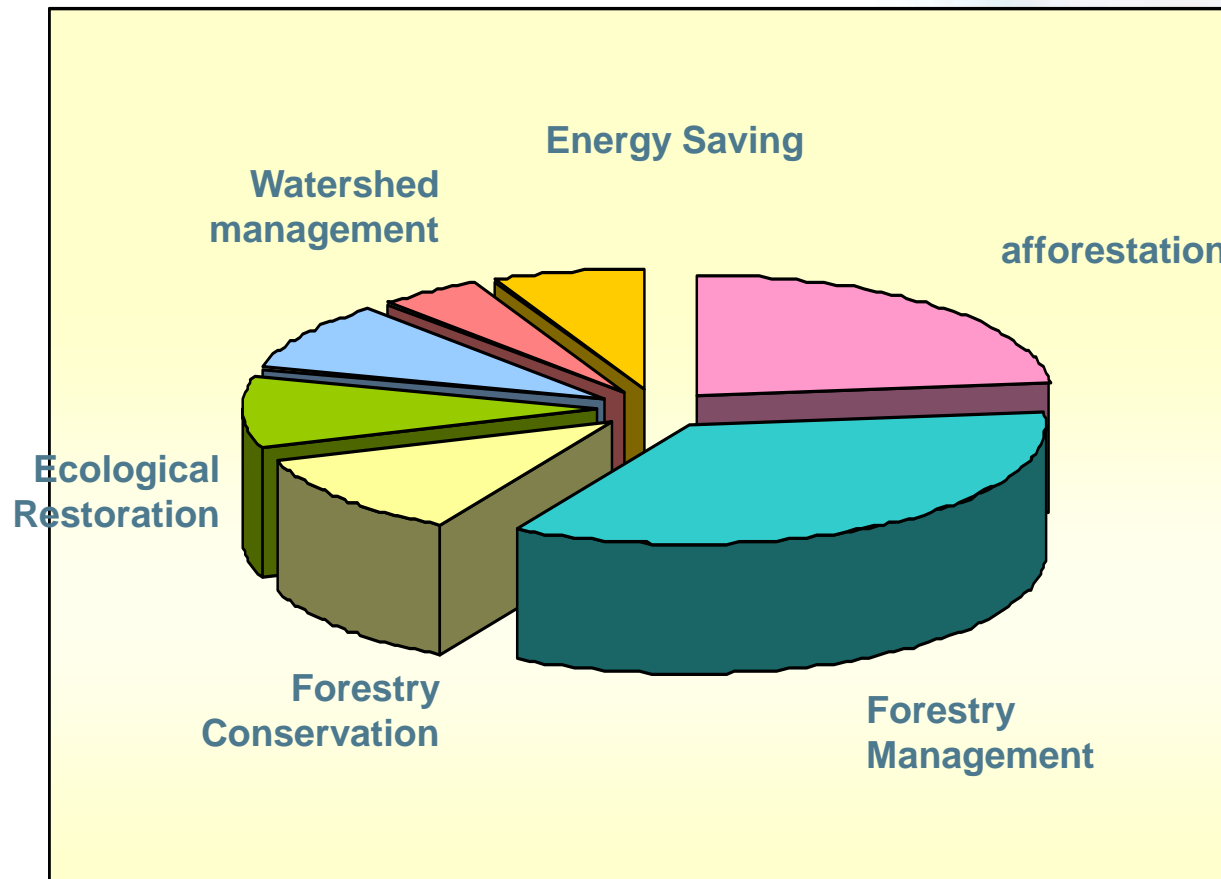


Set up a platform for ES exchange

- In August 2008, Beijing environmental exchange was set up.
- In November 23, 2009, China forestry exchange was established.



Established Green Carbon Fund Beijing



5,200 people participated,

About **\$ 470,000** till end of
the April.

Challenges



Limited sources of funding

Adding payments for biodiversity? MRV?

Immature market for Water and carbon

How to balance water resource and forest carbon stock

Poor awareness, less participation and unstable benefits of local communities





Thank You !