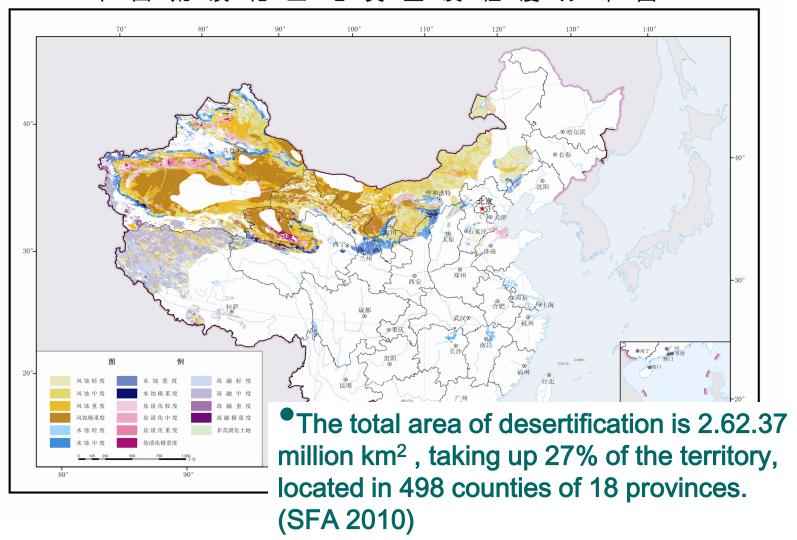


#### CONTENTS

- I. Desertification in China
- II. Governmental efforts
- III. Technical transfer

### **Desertification Distribution in China**

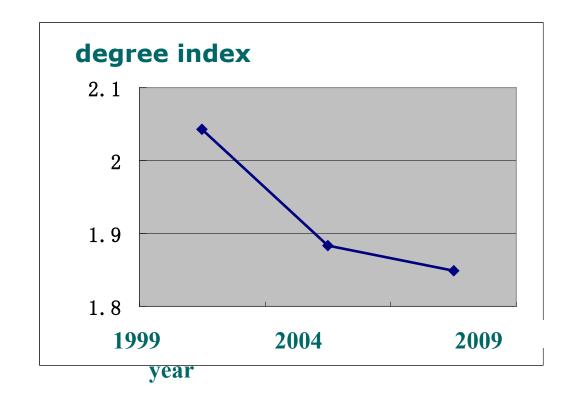
#### 中国荒漠化土地类型及程度分布图



## The change of the average degree index of land desertification

year	1999	2004	2009
average degree index of land desertification	2.04227	1.8834579	1.849336

The average degree of desertification in China is decreasing since 1999.



1994-1999,annual increase of sandy desertification 3436km<sup>2</sup>

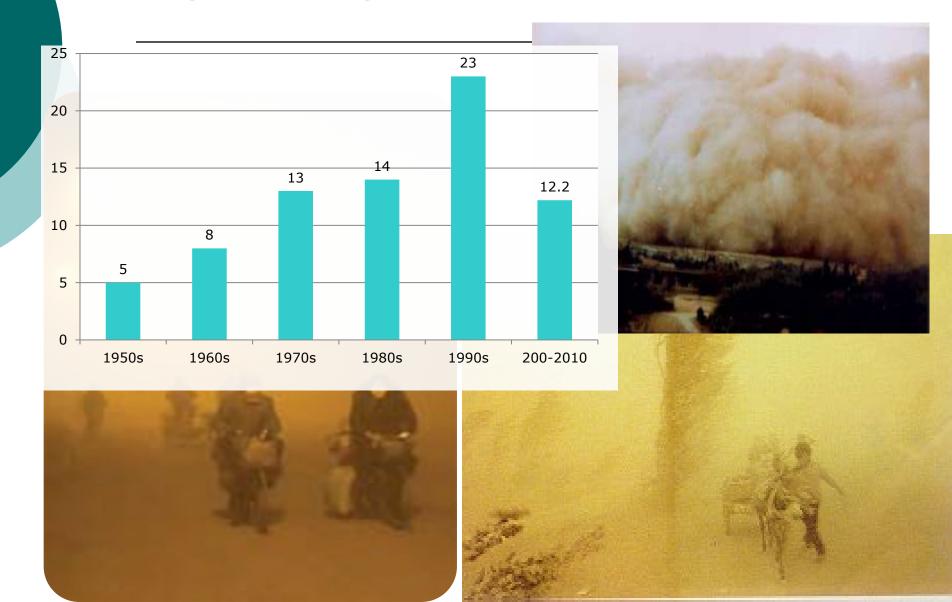
Annual reverse of 1283km<sup>2</sup> sandy desertification

Third round national desertification monitoring





### Annual Average Dust and Sand Storms (DSS) in China in 20<sup>th</sup> Century and recent 10years

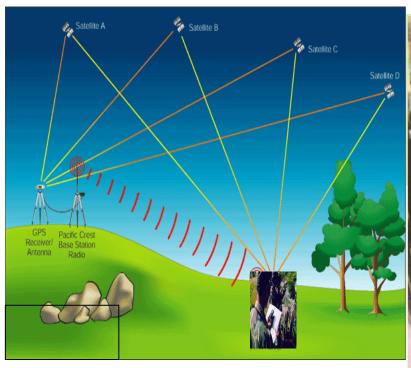


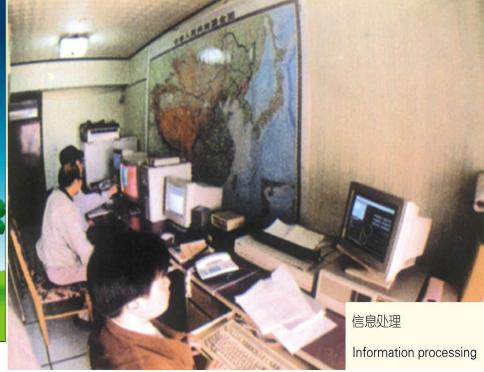
# Governmental efforts –Basic principles

- Integrated desertification combating into State social and economic development plan
- Taking action based on laws,
- Applying scientific based approaches
- Integrated management and cross-department cooperation ,
- Governmental efforts supported by social mobilization and all stakeholders participation

### Strengthen Scientific support to provide basis of national Programming

- Monitoring and assessment system
- Dissemination of best practices







# 中国的沙治沙实用技术与模式

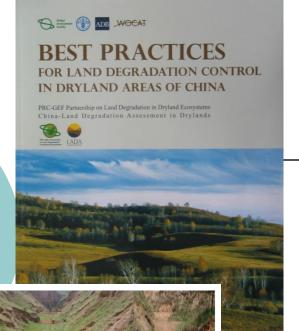
国家林业局防治荒漠化管理中心



中国环境科学出版社



Expert consultation for scientific decision-making



49 cases were collected from 10 provinces and compiled as a book

- covering 10 subcategories and 5 categories of techniques
- including sand dune fixation, revegetation, soil erosion control, agro-forestry and utilization of natural resources
- Financed jointly by GEF-China and GEF-LADA project

Check Dam Xifeng County, Gansu Province, P.R.China

Destribution
Check dam is kind of sediment storage dam of 5m below and is built in channels to control the down cutting of channel bad.

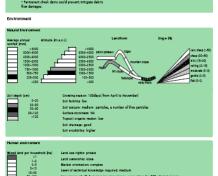
Describition

Check dam is kind of sadinest storage dam of 5m balaw and is built in Description Description of the dam cutting of channal back.

The tachnical demonstration site is located at the Least plateau with central motions of limits, drought and last ratio in viginar and spring, medinated improved mines, drought and last ratio in viginar and spring, medinated increases of limits, and the second of last surface supports to 1940.0 mm.

The serving forestria particul 192 days, not lingua are skells call, located at the serving forestria particul 192 days, not lingua are skells call, located at the serving forestria particul 192 days, and located at the serving forestria particul 192 days, and the serving forest last sadio states and grazes. Burself mediulus 18 0000 milys, kiny, version mediulus 18 400 tark-aim. The amount of purispan ratio of Youn babilished accounts for 71, and the state of the state instances of the state in the state is in determined by designed filling ords. In general the bottom within the state of the state in the state of the s









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#### Sand barriers and windbreaks

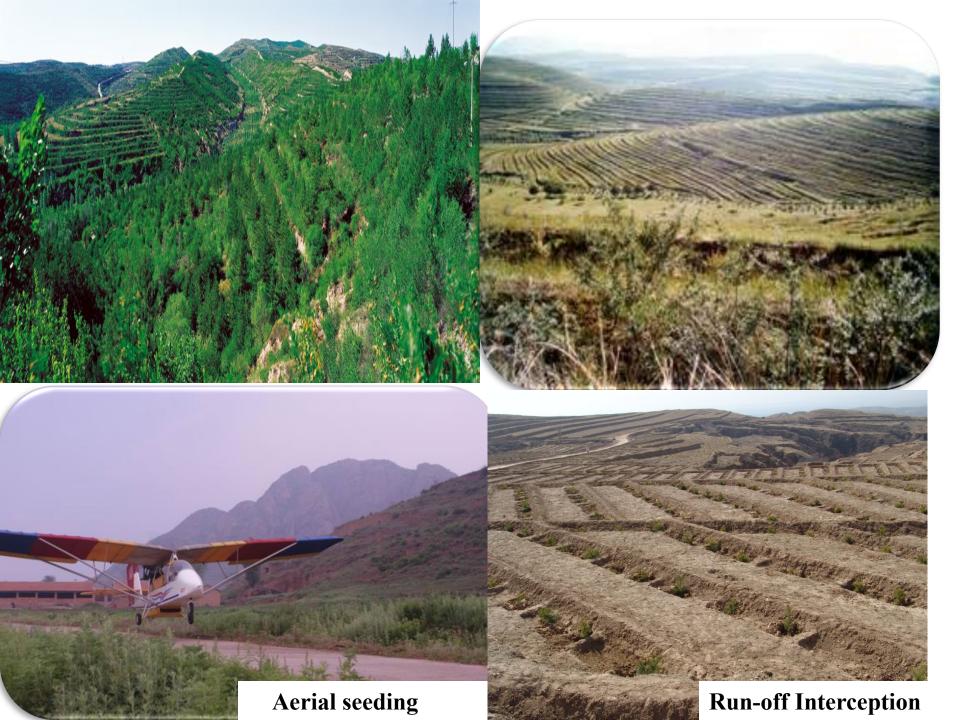


### Selection of indigenous species









#### Desert vegetation processing and utilization



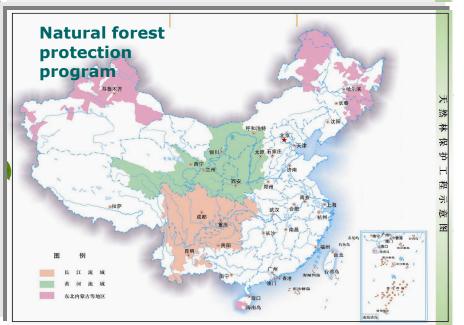
 Implemented well designed projects to increase forest and grass coverage Governmental invested key projects for ecological

improvement

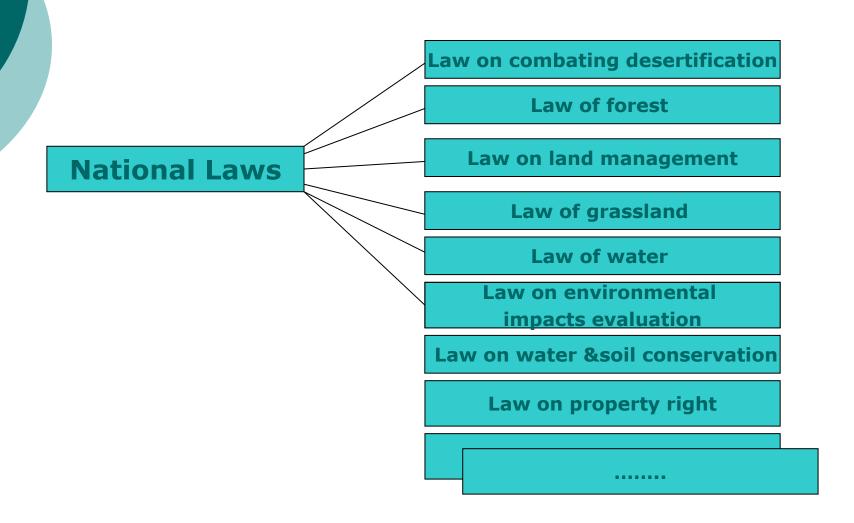
- Central Government budget invest
- Local governments implementation
- Farmers participation
- Low input







### Law framework based regulatory measures to control unsustainable land use





# Put in place a benefit driven system to mobilize the active participation of the whole society

 Governmental payment and provision of ecological good (PES, Forest ES, GrassES)

Ecological improvement project, Land use Transition, Forest management,

- Market system for Forest ecological payment
- Market based sustainable commercial forest management

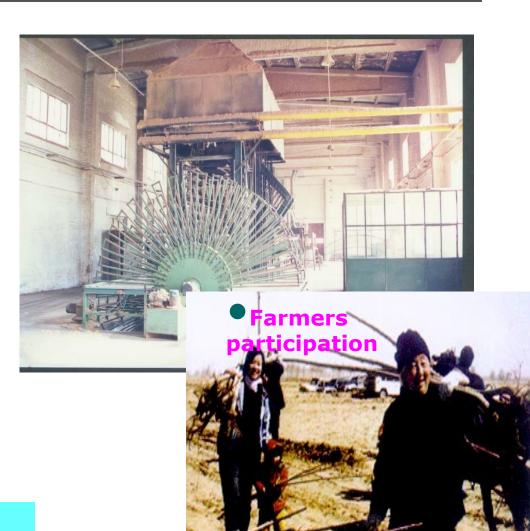
Collective forest property right reform 70years land use right, Logging permission for sustainable use

#### By incentive policy driving

#### Private investment



- ●2007年温家宝总理接见全国治沙劳模
- Premier Wen Jiabao met with working models in 2007



#### **Government payment**

#### Compensation and subsidies to farmers

#### Grain for Green

Duration 8years+ afforestation,25provinces

#### Soil erosion &flood

- Cropping easement slope land and sandy land at the Yellow river basin and Yangtz River basin
- Reforestation: Plantation structure:7:3 (ecological: economical)

#### Compensate loss of farmers

- Grain compensation:2150kg/ha/year Yangtz River1500kg/ha/year Yellow River
- Cash subsidies :750yuan/ha/year
- Cash for seedlings: 750yuan/ha/year

Second phase: the second 8-year, all cash payment

Forest Ecological Benefit
 Compensation Fund

Duration 10years+ management
Improving forest ecosystem services
Water heads, natural reserves and

Forest protection and management
 Refforestation, tending, fire, pest
 disease

post afforestation management

Compensation to input of organization, collectives, individual farmers

Cash payment: 75yuan/ha/year

Xu,et al 2006. Liu, et al 2006.

## Sustainable management of commercial forest

Targeting: Commercial forest (70% commercial: 30% ecological in southern China) sustainable forest management SFM (local) Vs SFM (Int.)

Objectives: sustainable development of timber and wood production not compromising ecological security, improving income of local forest farmers

- Collective forest property right reform
- Empowerment and return forest property right to farmers
   Land use right 70 years
   Forest property right
   ownership, management, gaining profit
- Logging permission system reform
   Logging quota application Sustainable forest management program based on year of tree +market demand
- Timber procurement by forestry department--- market based
- Services provided to individual farmers in land transfer, pest and disease control
- Loan and credit support for forest farmers

# Establish mechanism that combine incentives with accountability and heighten the sense of responsibility of all Levels of Local governments

- Agreement between provincial and central government on annual target of the land degradation control.
- Reporting and evaluation and assessment of the performance and effectiveness of provincial governments.
- Linking desertification control with leading governor's official term evaluation.
- Punishment and reward.



• Ensure Coordination among various departments and full participation of the Whole society in the fight against desertification.

#### **CCICCD 19 ministries**

- State Forestry Administration
- Ministry of Foreign Affairs
- Ministry of Finance
- National development and reform commission
- Ministry of agriculture
- Ministry of water resources
- Ministry of environmental proetection
- State council leading office for poverty alleviation
- Ministry of science and technology ......

#### IV. Improvements made

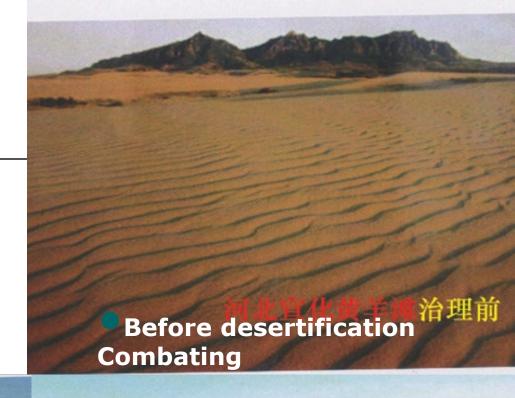
Ecological improvement

Diverse income generation

Capacity building

Awareness raising

Ecological condition improved



林草植被盖度增加20%以上。20% Increase of Forest-Grass Coverage

After desertification Combating

Take Beijing and Tianjin Sand Wind source control project for instance, it makes a completion of total 5.76 million hectares of forestry management, forest coverage rate increased from 12.4% in the beginning to the current 17.1%; "Three North" Shelterbelt achieve the accomplishment of 24.67 million hectare forest conservation areas, forest coverage rate has seen an mount up from 5.05 percent in 1977 to the present 10.51%

# Livelihood improvement and income generation





Rural poverty population decreased at an annual rate of 6.8%.





2022/11/4



Capacity building







2022/11/4 30

Awareness raising







2022/11/4 31

#### V. Technical transfer

Asian workshop on land assessment



Stakeholders meeting and field investigation in Wengniute County

#### Seminar under China Africa Forum



• June 17, 2011 opening seminar for African countries on combating desertification

Field trip in Hebei

- 13countries,33Gover nmental officers
- 3weeks lectures and field trip
- Policy and technical seminar

Training workshop hosted by China Forestry
 Academy under UNEASPEC project on NEA DDS mitigation for Mongolian



- 1week training
- Lectures + field trip
- Policy and technical courses

Opening ceremony
 Attended by CCICCD and
 Mongolian committee to
 combat desertification



**Experiencing Mongolian** culture ecotourism





- Losing session
- Award of certificate

•Bilateral training similar natural condition Focus on common issues, Base for piloting project



