

# Foresight Experiences in China and Applications to Forest Resources Sector

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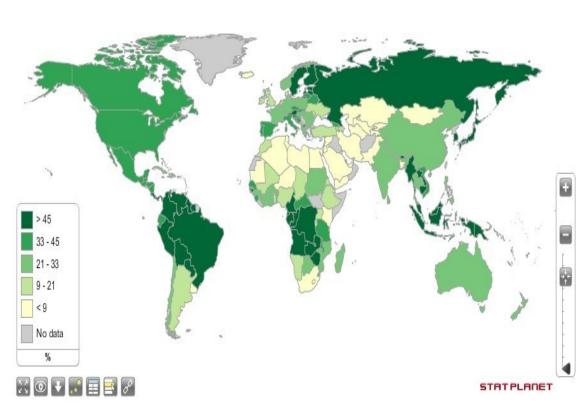
# Presentation outline

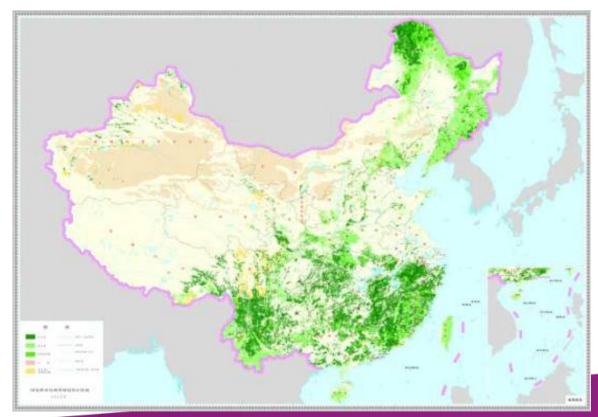
- 1. Forest Resource in China
- 2. Forest Resource Management Method in China
- 3. Forest Resource Management Planning in China
- 4. Foresight application in China's forest resource management

#### 1. Forest Resource China

#### 1.1 Global Forest Resource Vs Forest Resource in China

- Rrepresent 5.2 percent of the planet's forest with 21.66% forest coverage rate and 208 million ha forest in 2016;
- Forest in China provide 600 million ton carbon sink annually;
- Cconsist of largest planation forest in the world with area of 69.33million hectare in 2016
- Still low foest resource country 1/4 forest area per person, 1/7 forest stock per person of world avarage level





Rource: UNDP hdr.undp.org/en/ 2014

Rource: Forest resource inventary SFA 2013<sup>2019</sup> | www.efi.int

#### 1. Forest Resource in China

#### 1.2 Global Forest Resource change Vs China Forest Resource change

Forested areas have decreased but rate of net forest loss has been cut by 50%.

- The biggest loss has been in the tropics, particularly in Africa and South America.
- Net forest area has increased in over 60 countries and territories, most of which are in the temperate and boreal zones

### **Global Forest Resources Assessment**



How are the world's forests changing?\*

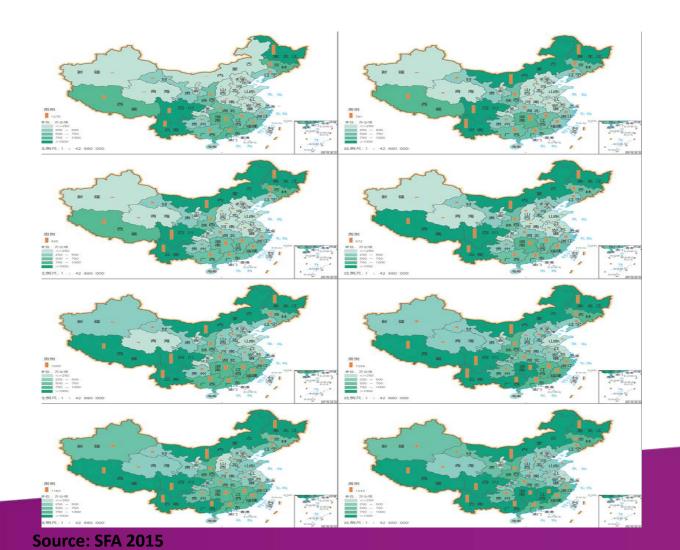
Forested areas have decreased but rate of net forest loss has been cut by 50%



Source: FAO Forestal 2015

Forest area kept increase 40year 1973-2013 1st-8th forest inventory investigation

- Suitable afforestation area kept decrease
- Forest quality still need to be improved



### 2. Forest Resource Management Method in China

Three certificates management system

Forest Harvest Quota Certificate

Need receive it before any commercial harvest behaviours

Issued by local forestry authority

- Forest Transportation Certificate
- Need receive it before transport any log cross the local administrative boundary (county, city, province)
- Issued by local forestry authority
- Forest Process/Manufacture certificate
- Need receive it when set up wood process factory
- Issued by local industry and commerce bureau together with local forestry authority





# 3. Forest Resource Planning in China

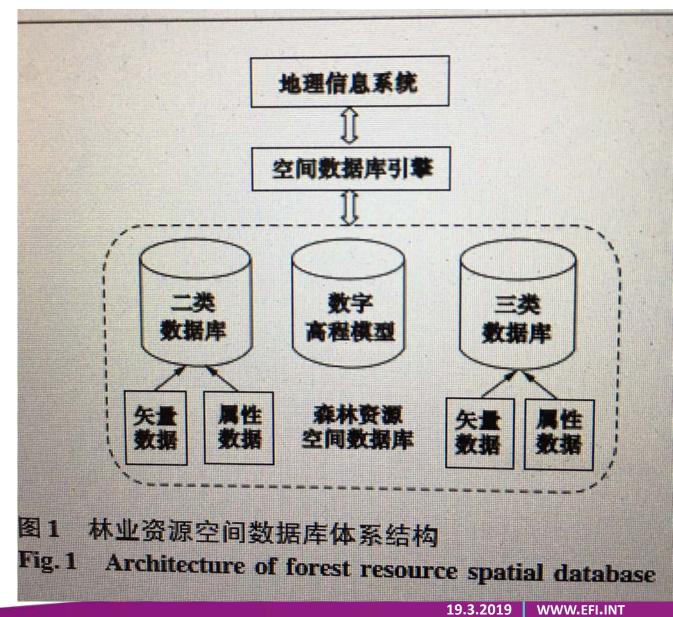
### 3.1National Forest Inventory investigation system

- Every 5 years, start from 1973
- The latest one is 8th and covered2008- 2013
- Recorded the forest resource change in past 40 years
- Every year 1/5 provices attend the investatagion and summ data into natiaol data every 5 years.
- Investigation covered 5 areas: Land use coverage change, landscape and soil, forest features, forest funcations and others.
- Set permenate sample can be in size of 2 km×2 km、3 km×4 km、or 8 km×8 km, and total area must larger than 0. 06 hm2.
- Provide the consolidate foundation for forest management planning
- Forest ecologica fundcations investagion and data need to be improved

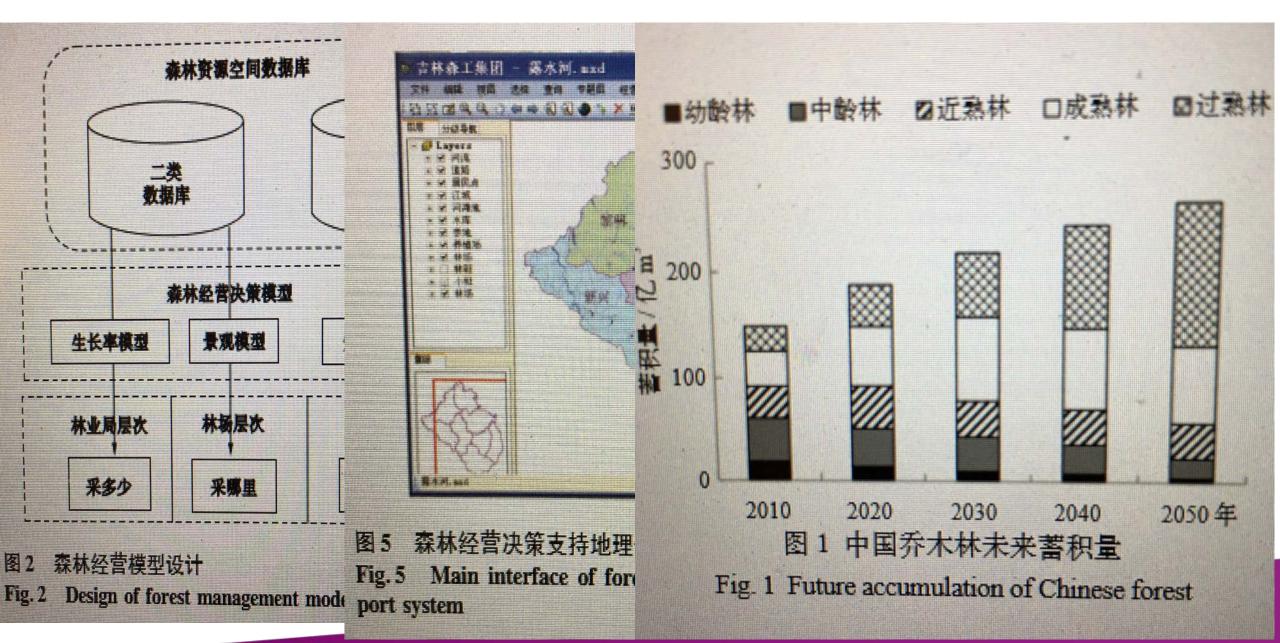


# 3. Forest Resource Management Planning in China

- 3.2 Forest resource mangement planning
- Down to up appraoch: collect the data from village county level and summariz them
- Every managment unit/company/villeage /county /city/provice have the forest mangement plan
- GIS data also be collected
- Collected data were used in mangament and forest mangemnt plan and set the forest harvast qouta

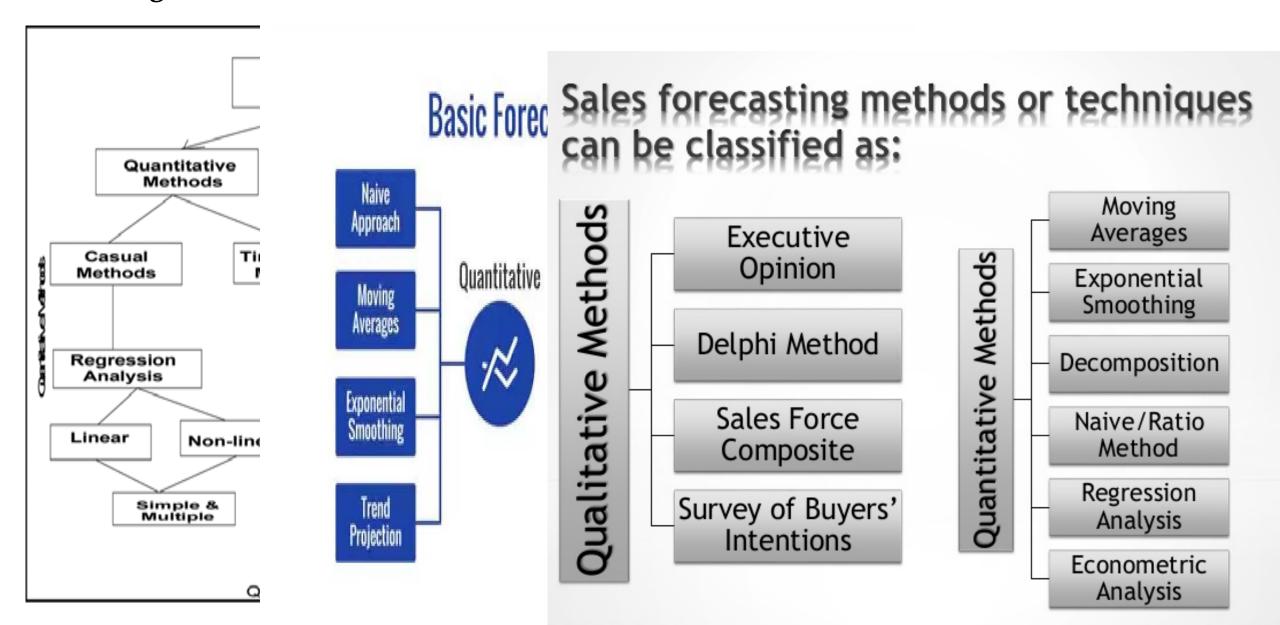


# 3. Forest Resource Planning in China



#### 4. Foresight application in China's forest resource management

Foresight as a economic tool to be used to support and make the decision



## 4. Foresight application in China's forest resource management

- However, in China "Foresight "was not a popular term comparing with "Forecasting"
- Foresight and Forecasting shared common goals and funcations
- Previous slides showed China has set up systematic forest resource management forecasting and decision supporting system
- How better us forecasting to support better decision also is important issue faced by Forest resource management system in China, global lesson learn and sharing are welcome both on academic and policy level.

# Thanks!



Photo: Sanit Fuangnakhon / Shutterstock

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