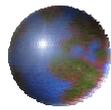




China's Urban Environmental Management



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December 21, 2004



- How could ecological restoration be implemented at local level?
- What's the role of National Government to promote ecological restoration?
- Introduction to urban environmental management + a case in Chengdu City, Sichuan Province





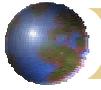
Outline

- Urbanization progress in China
- Goals of Urban Environmental Management
- Instruments of Urban Environmental Management
- Case Study of Chengdu City, Sichuan Province



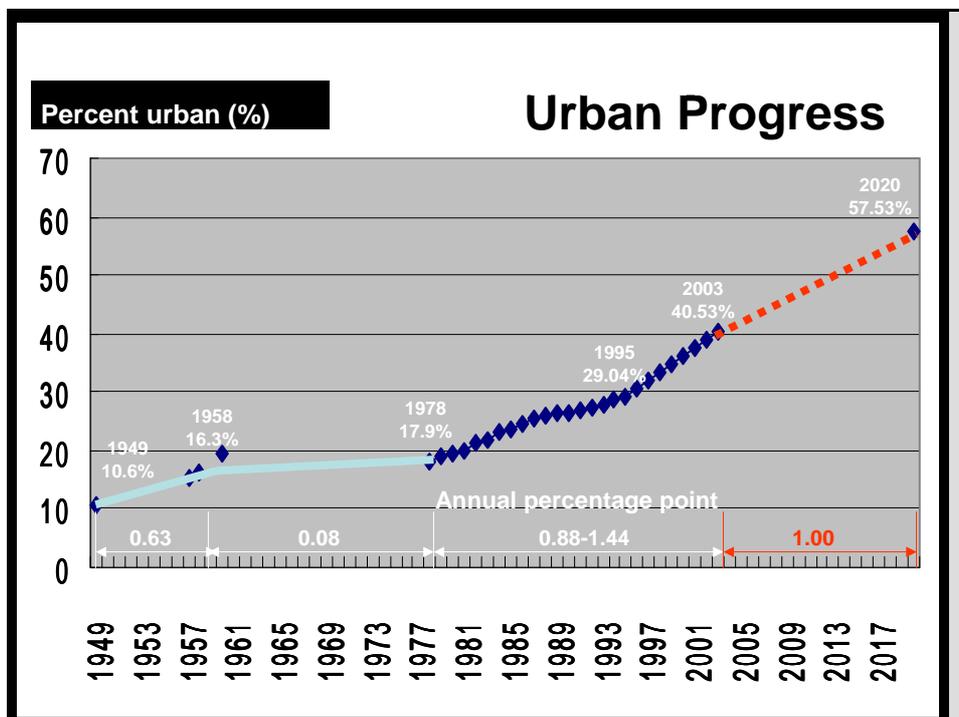
Urbanization progress in China

- Importance of urban areas for China
 - 50% of total industrial products
 - 70% of total GDP
 - 80% of total taxes
 - 85% of tertiary industry
 - 90% of high education universities and colleges



Urbanization progress in China

- From 1978 to 2000, for China
 - number of cities increasing from 193 to 663
 - number of towns increasing from 2,173 to 20,312
 - total urban population increasing from 170 million to 456 million, taking up from 17.9% to 36.1% of total population





Goals of Urban Environmental Management



Goals of Urban Environmental Management

- In the period of 10th five year plan (2000-2005)
 - Ambient air quality of 50% major cities reaching the level of national class 2
 - Water quality of 70% major cities reaching the level of national functional standards
 - 80% of major cities reaching noise control level
 - Sewage treatment rate of cities reaching 45%
 - Natural gas/LPG using rate of households in cities reaching 85 .
 - Disposal treatment rate of cities reaching 65 .
 - Greening coverage rate in urban area reaching 35%



Instruments of Urban Environmental Management

- Quantitative evaluation of urban environmental performance
 - Purpose
 - Encouraging municipalities to improve their environmental performances by disclosure of city environmental image information to the public
 - Index of evaluation
 - Air, water, solid wastes, noise and ecological indicators
 - Evaluation
 - Merits system
 - Calculating indexes
 - Put weighted indexes and to integrate all of indexes into one indicator



Instruments of Urban Environmental Management

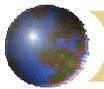
- Quantitative evaluation of urban environmental performance
 - Coverage of cities among more than 600 cities
 - 47 major cities
 - Expanding to more and more cities
 - Ranking series
 - To rank cities by their merits of environmental performances
 - Reactions of society
 - City images are highly concerned by their citizens and whole society



Instruments of Urban Environmental Management

- Quantitative evaluation of urban environmental performance
 - Effectiveness of environmental management
 - Pressures on cities to improve their environmental behaviors by their citizens
 - Good environmental images of cities are used to attract tourists and investments
 - Bad environmental images of cities are blamed by citizens
 - Competition among cities
 - Role of national government, SEPA
 - Play a role as judge but players
 - no costs to invest to clean up and restore ecosystem
 - Use carrot rather than stick





Instruments of Urban Environmental Management

- Similar programs for city, town, corporate and product
 - Environmental model city Program
 - Environmental beautiful township Program
 - Environmental friendly corporate Program
 - Environmental Label Product Program



Case Study of Chengdu City, Sichuan Province

- A written paper is available to introduce the city's actions
 - to improve its environmental performances
 - to restore its ecosystem of Shahe River Basin



THANK YOU!!!

Merry Christmas and HAPPY NEW YEAR!!!

谢谢!

圣诞快乐! 新年快乐!