

# **Ecological Evaluation, Planning Approach of Urban Green Space and Urban Forest in China**

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## **Abstract**

Applying social-economic-natural complex ecosystem theory, urban ecology and landscape ecology principles, and sustainable development theory, this paper aims to develop an evaluating index system and ecological planning method for urban green space. Main contents of this presentation include: connotation, problems and research focus of urban green space; ecological evaluation and planning method of urban green space; case studies of different scales of urban green space; urban forests in china and proposals.

Urban green space is a kind of green network, composing of parks, urban forests, urban agriculture, roof and vertical greening, greenways and riverside green space. The ecosystem services of urban green space is that green space system can provide material and mental products, environment and resource, ecological commonweals to maintain the human activities and physical health. It depends on the green space quantity, composing structure, landscape pattern, distribution characteristics, relationship with surrounding artificial landscape and regional ecosystem, and management level, etc. The evaluating index system and ecological planning of urban green space advanced in this paper are effectively applied in different scales of urban green space planning. Urban green space planning should consider the holistic relationship with “blue space”, “grey space” and “red space”. Its core is to properly plan and arrange the relationship between the non-built-up space and built-up area; Urban agriculture, urban forestry and urban horticulture must be integrated in a whole way; Urban green space is be regulated from time, space, quantity, structure and order facets. Capacity building of urban green space is constructed by legal establishment, economic approach, institutional integration, technological application and social participation.