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to the challenges of modern world"

**FIG WORKING WEEK 2015**  
**17-21 MAY SOFIA BULGARIA**

## Land Management Reform for Sustainable Urbanization Development: The Case in China and Its Implications for Other Developing Countries

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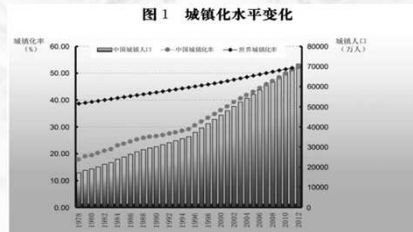
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- **China is on the track of accelerating industrialization and urbanization**

- Industrialization and urbanization accelerated since 1993
- Urban population percentage increased greatly (53.7% urban population in 2013) - --1.02% annual growth rate
- urbanization is behind Industrialization

Education  
Health care  
Social welfare  
35%~36% Real Urbanization Ratio



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### Concepts to better understand Urbanization

- Economic development (Industrialization)
- agricultural modernization
- Manufacturing
- High-tech Industry
- Service sector
- Keyword: economic level



- Rural to urban migration
- (population-based urbanization statics )
- Keyword: population

- Urban land expansion
- (conversion from non-built-up land to built-up land)
- Keyword: Land conversion



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### land urbanization vs. population urbanization

- Urban Land expansion ration

- urban population growth ration

- proportion of manufacturing Industry Land Use high

- Proportion of land use for livable environment low

- Rural built-up Land increased

- Rural population decreased

inefficient land use in urban and rural area      Unreasonable land use structure





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## Challenges

inefficient land use in urban and rural area

Unreasonable land use structure

## New-type of Urbanization Strategy in China

In the beginning of 2014, China released *National New-Type Urbanization Plan (2014-2020)*.

- large population
- relative shortage of resource
- fragile ecological environment
- unbalanced development between urban and rural areas



urbanization  
quality



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## KEY POINTS OF NEW TYPE OF URBANIZATION and LAND MANAGEMENT REFORM

- To orderly promote population urbanization. ( **ECONOMIC GROWTH, EDUCATION AND VOCATIONAL TRAINING** )
- To optimize the layout and pattern of urbanization. ( **Land use planning: zoning--- further strictly protect cultivated land or ecology. )** )
- To vigorously promote intensive and conservative land use. ( **land use regulation** )
- To establish a unified urban-rural built-up land market to ensure that farmers could share the land value-added income equally **ACCORDING TO LAND USE PLAN** and "afterwards social support "



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### Implications of China's urbanization and land use planning for developing countries

Land governance  
Responsible bodies

Sustainability

Rural and urban Integration

Spatial planning or land use planning system  
 (upper level :strategic plan  
 Lower level : zoning plan for land use regulation)

Spatial data infrastructure  
 (geodetic and geographic data , land use data, cadastral data, land title data )

**Implementation Tools:**  
 Land Consolidation  
 Village Renewal  
 Land use norms and indicators  
 3S monitoring  
 ....

**Formulation**  
 •Political views  
 • Land policies from different sectors  
 •.....others

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Thank you for your attention!  
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