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Exploration and Practice of China's Construction Land Saving and Intensive Use Evaluation System

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Background

•Human-land relationship conforms to the continuous succession of civilization



Primitive Civilization: The passive adaptation stage



Agricultural Civilization: The understand and adapt to nature stage



Industrial Civilization: The influence and change nature stage



Ecological Civilization: High quality development stage of Man and nature coexist in harmony









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Background

•Definition of land saving and intensive use

- \succ a land use model
- > purpose : continuously optimizes the human-land relationship enhancing efficiency and benefits
- measure: reducing consumption and increasing input









Background

•Urbanization process in China (2009-2022)



2023

National urbanization rate of permanent resident population:

66.16%







Background

• Land saving and intensive use is a fundamental policy for achieving high-quality development base on the situation of China's resources







Background

Overall

System





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Background

Development Process of Construction Land Saving and Intensive Use Evaluation System



Theoretical exploration

1999-2010 Construct evaluation index system **Pilot verification** Release evaluation code of practice



Expansion and improvement

2019 to present overall evaluation (region/city) + special evaluation (development zone/university land/other) + detailed evaluation (land parcel

2011-2018 conducted the evaluation on an annual basis



Project implementation



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Evaluation System







Evaluation System

• Effectiveness





3.support land use management

- adjustment and upgrading of land use
- physical examination and evaluation of territorial spatial planning
- land expropriation and development plan review
- the creation of land saving and intensive use model cities







Evaluation System

• Latest achievement : Comprehensive index of construction land saving and intensive use











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Situation&Challenges

Situation

Improving the evaluation system is the objective requirement of implementing laws and regulations

Regulations for the Implementation of the Land Administration Law

The construction of ecological civilization requires that the evaluation system should further reflect "green" and "low-carbon"



Global climate governance



Biodiversity conservation



Sustainable development





Situation&Challenges

- Major problems
 - the timeliness of results is lagging



• the new demand for docking management is insufficient





Big Data

Artificial Intelligence

Blockchain







Suggestions

• Build a "5E" evaluation system for the saving and intensive use of construction land











Suggestions

Measures



Making the work system long-term



Standardization of the technology system



Diversification of application systems



Normalization of the publicity system







Let's work together to promote the saving and intensive use of land!







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