Newly-established Spatial Planning system in China

Rosy LIAO and Yuntai ZHAO
China land surveying and planning institute
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Background

Total population: 1,390,000,000
Provinces: 34
City: 334
County: 2869
Town: 39888
Village: 480,000
Background

Europe: 10,160,000 km²
China: 9,600,000 km²
Average area of province: 300,000 km²
Average area of city: 29,000 km²
Average population of city: 4,150,000 (rural and urban)
Water resources per capita: \( \frac{1}{4} \)
• Over 80 plans
• More than 20 according to the law
• Complex systems

<table>
<thead>
<tr>
<th>Title</th>
<th>Department</th>
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<tbody>
<tr>
<td>Railway planning</td>
<td>Ministry of railway</td>
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<tr>
<td>Water planning</td>
<td>Ministry of water resources</td>
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<tr>
<td>Woodland planning</td>
<td>National forest administration</td>
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<td>Grassland planning</td>
<td>Ministry of agriculture</td>
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<td>Marine planning</td>
<td>State oceanography administration</td>
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## Key spatial plans

<table>
<thead>
<tr>
<th>Title</th>
<th>Law</th>
<th>Department</th>
<th>Process</th>
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<tbody>
<tr>
<td>Major function oriented zoning</td>
<td>none</td>
<td>national development and reform commission</td>
<td>From 2006, officially implementation in 2010.</td>
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<tr>
<td>Territory planning</td>
<td>none</td>
<td>ministry of land and resources of the PRC</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; round from 1985 2&lt;sup&gt;nd&lt;/sup&gt; round from 2014</td>
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<tr>
<td>Town and Country Planning</td>
<td></td>
<td>ministry of housing and urban-rural development of the PRC</td>
<td>From 1980s, overestimate the urban space</td>
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<tr>
<td>land use planning</td>
<td></td>
<td>ministry of land and resources of the PRC</td>
<td>1&lt;sup&gt;st&lt;/sup&gt; : 1987 2&lt;sup&gt;nd&lt;/sup&gt; : 1997 3&lt;sup&gt;rd&lt;/sup&gt; : 2004  4&lt;sup&gt;th&lt;/sup&gt; : 2018</td>
</tr>
<tr>
<td>environment protection planning</td>
<td></td>
<td>ministry of environmental protection of the PRC</td>
<td>As an important component of Five Year Plan for National Economy and Social Development</td>
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Problems

➢ Each plan only focuses on its own responsibilities, lacking the spatial coordination

For example

• Urban planning serves the local government. It try to get more urban construction scale by predicting more urban population.
• The statistics shows, all of the 334 cities population over 3,400,000,000.
• Result: urban sprawl excessively, 2000-2010, construction area increased 120%. Meanwhile, the urban population increased 50%.
• The agricultural land loss excessively.
Ecological and environment planning was established in national and provincial level, like the strategic planning. It’s difficult to guide the protection and construction in the parcel level. 

**Result:** many important ecological regions were occupied. Many problems were arisen, such as soil erosion; grasslands deterioration, atmospheric haze in some urban agglomeration, etc.
contradictions

- The same parcel was planned for different land use in various plans. There are contradictions in planning implementation.

**For example**

- The parcel was planned for agricultural land in land use planning, but construction land in urban planning.

Urban planning

Land use planning
- 2014, multiple plans integration in 28 cities and counties.
- 2015, multiple plans integration in 9 provinces.
- 2018, newly-established spatial planning system.

- Major function oriented zoning
- Land use planning
- Urban and rural planning
- Ecological and environmental planning
- Forest planning
- ....

Spatial planning

- Master plan
- Sub plan
- Detailed plan

- Land use
- Urban and rural
- Ecological region
- Landscape
- Mineral
- Etc
Master plan in national and provincial level: strategy and guidance

- Planning range
- Urban and rural residential area
- Zoning policy
- Elements of physical geography
- Infrastructure
Master plan in city and county level

- Permissible construction area
- Ecological area
- Agricultural land
- Urban infrastructure
- River
- Town
- Rural residential area
- Urban growth boundary

Master plan in city and county level
Detailed plan in city and county level

- Building project boundary
- Permissible construction area
- Infrastructure
- Park and green space
- Land use regulation
- Public service facilities

Permissible construction area
Ecological land
Agricultural land
Urban residential area
Rural residential area
Urban growth boundary
Building project boundary
Public service facilities
Park and green space
Land use regulation
Infrastructure
Permissible construction area
Urban growth boundary
Ecological land
Agricultural land
Urban residential area
Rural residential area
Urban growth boundary
THANK YOU!

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