self-sufficient shougang

a new urban form

MITsinghua beijing design studio 2008

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problems

explosive and sprawling growth
loss of industrial economy
site contamination
integrity of industrial structures
limited self-sufficiency
concept

bounded growth
hyperdensity
vertical infrastructure
urban self-sufficiency
bounded growth
bounded growth
urban self-sufficiency
historical context

Decrease of Farmland in Beijing
(square kilometers)

Comparison on Farmland per person
(Square meter)

Decrease of Farmland in Beijing

<table>
<thead>
<tr>
<th>Year</th>
<th>Farmland (square kilometers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996</td>
<td>3443</td>
</tr>
<tr>
<td>2006</td>
<td>2330</td>
</tr>
</tbody>
</table>

Comparison on Farmland per person

<table>
<thead>
<tr>
<th>Location</th>
<th>Land per Person (square meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beijing</td>
<td>192</td>
</tr>
<tr>
<td>Cites in China</td>
<td>773</td>
</tr>
</tbody>
</table>
historical context
import economy

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>export</td>
<td>138.1</td>
<td>134.7</td>
<td>156.2</td>
<td>160.7</td>
<td>181.4</td>
<td>214.3</td>
<td>233.9</td>
<td>271.8</td>
<td>310.3</td>
<td>366.2</td>
</tr>
<tr>
<td>import</td>
<td>83.2</td>
<td>81.6</td>
<td>112</td>
<td>118.3</td>
<td>124.4</td>
<td>189.3</td>
<td>280.3</td>
<td>286.5</td>
<td>319.9</td>
<td>409.7</td>
</tr>
</tbody>
</table>
land use crisis

28% increase in population

32% reduction in farmland

sky rocketing food prices
hyperdensity
hyperdensity
vertical infrastructure
vertical infrastructure
vertical infrastructure
land use
mobility
greenspace
master plan
vertical infrastructure
vertical infrastructure: section a
vertical infrastructure
vertical infrastructure: section b
vertical infrastructure
vertical infrastructure: section c
vertical infrastructure: section d
vertical infrastructure
vertical infrastructure