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11.307 Beijing Urban Design Studio
Summer 2008

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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

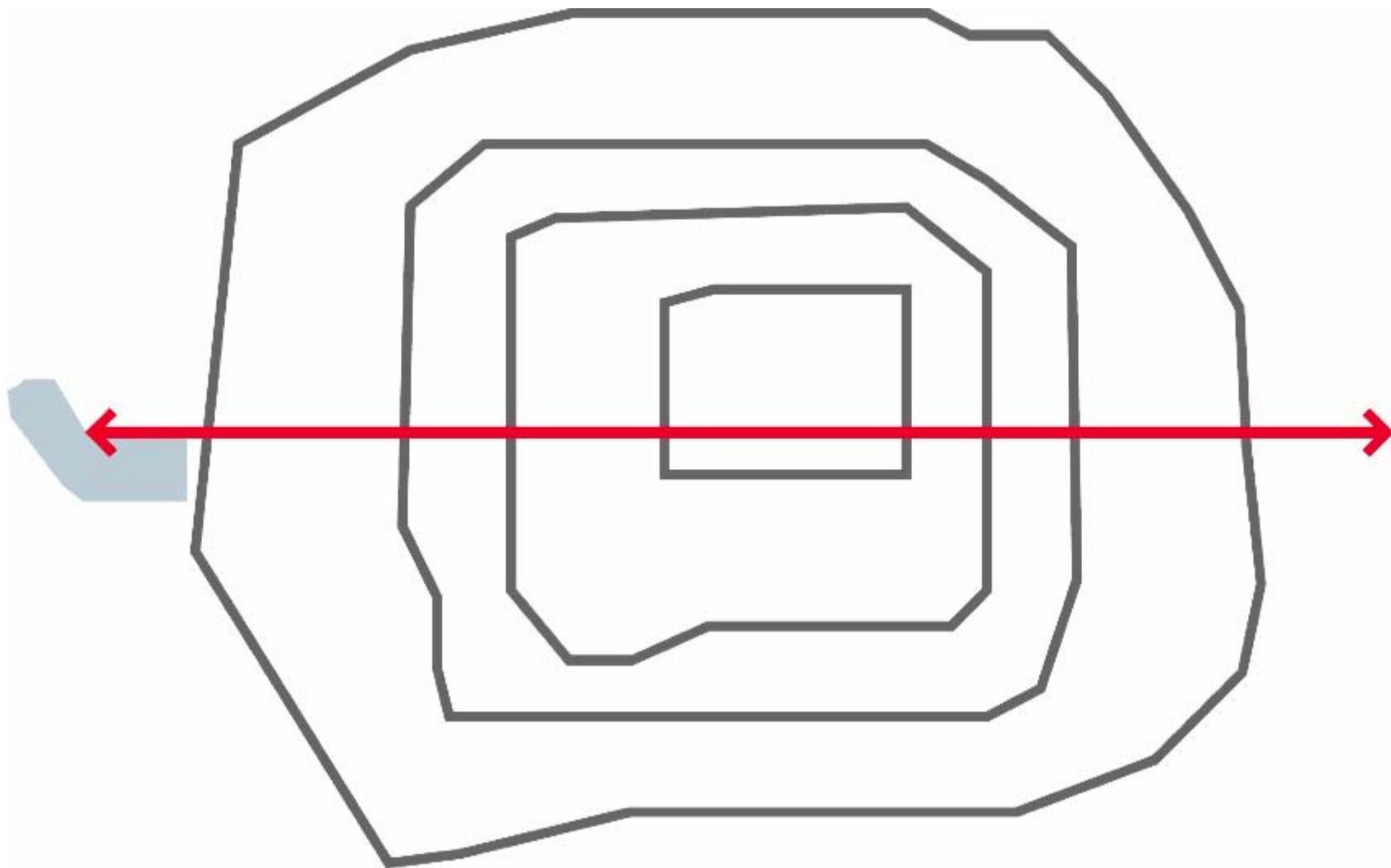
bounded growth

hyperdensity

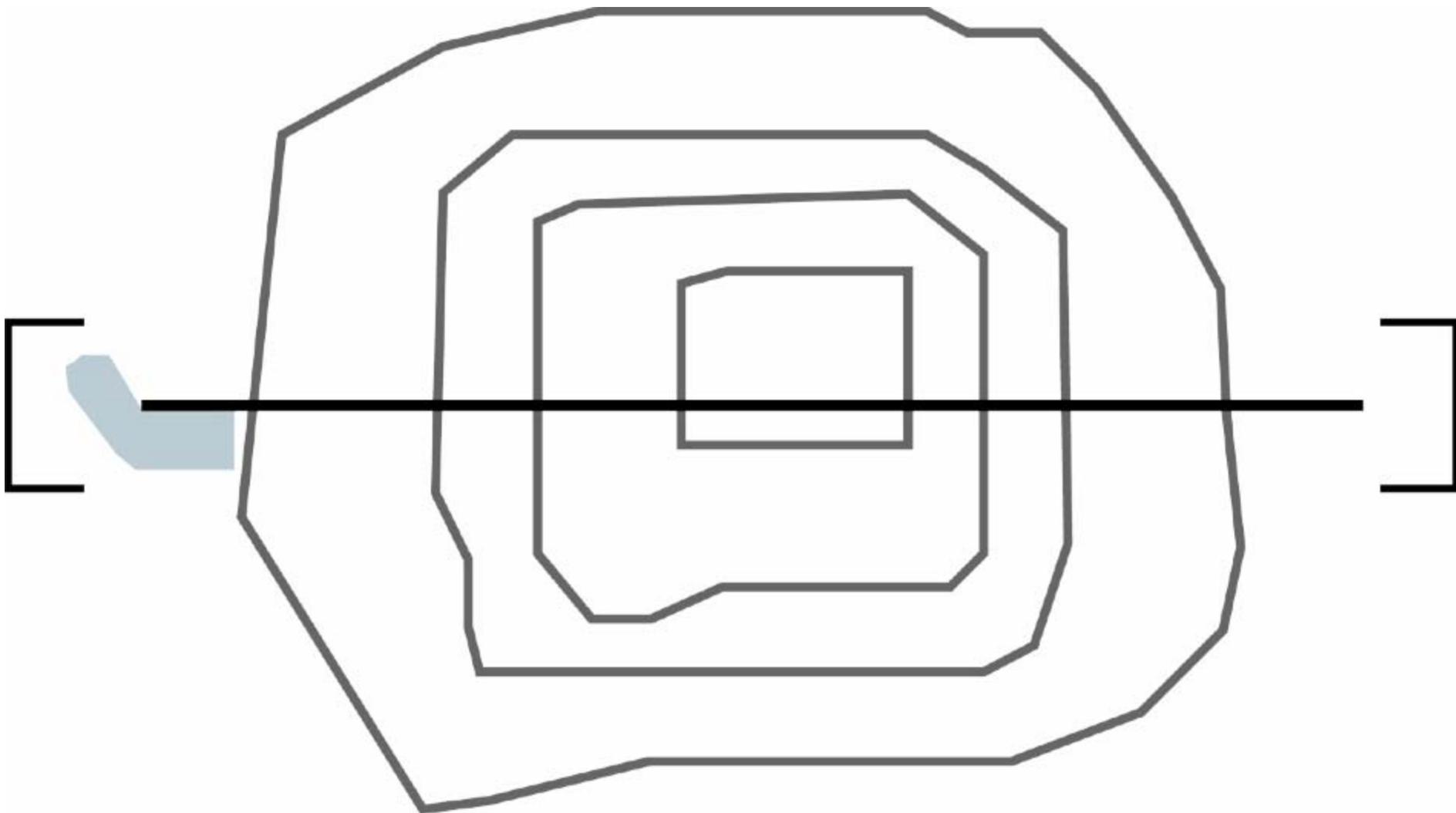
vertical infrastructure

urban self-sufficiency

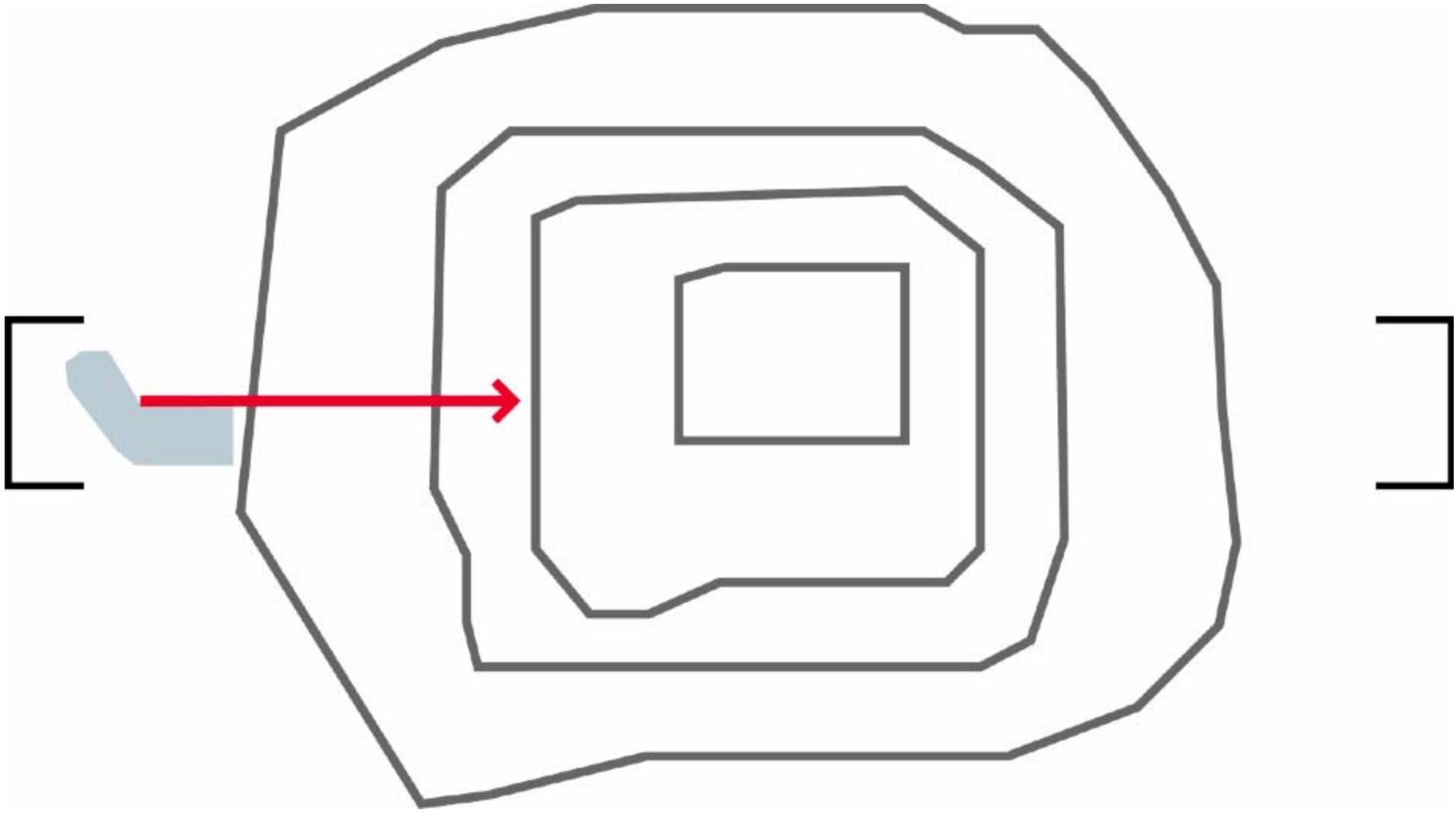
bounded growth



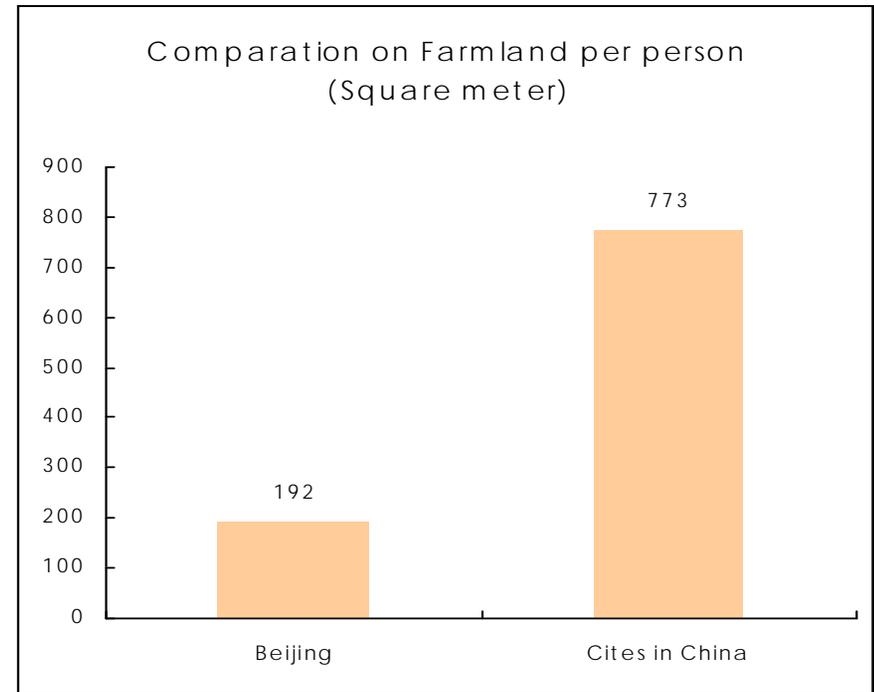
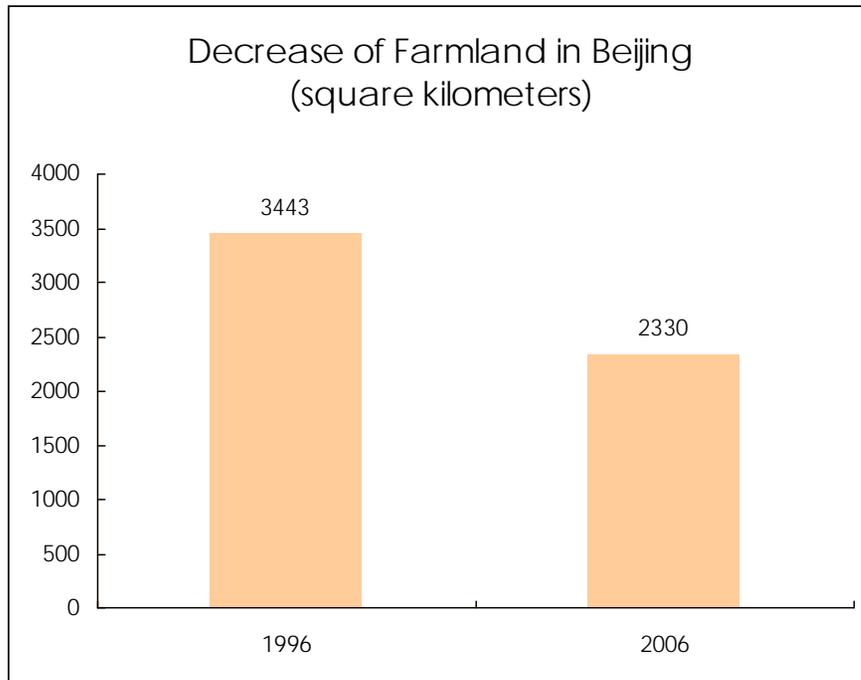
bounded growth



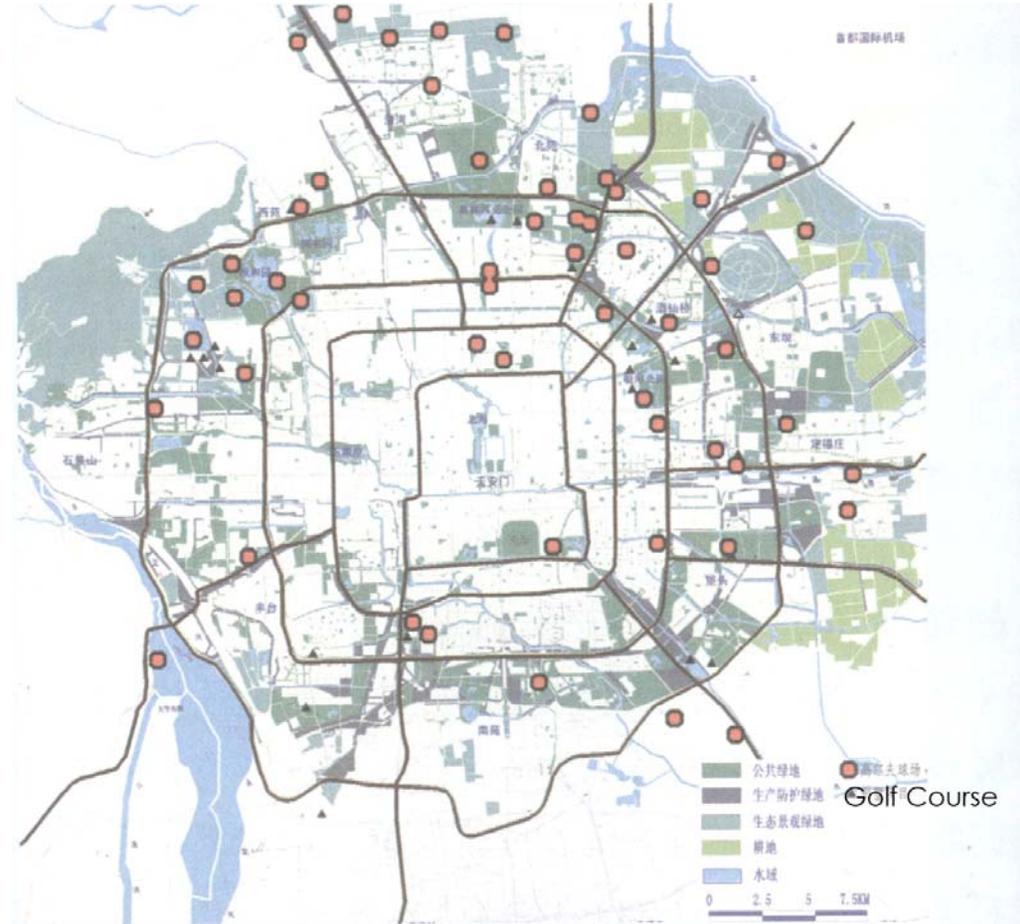
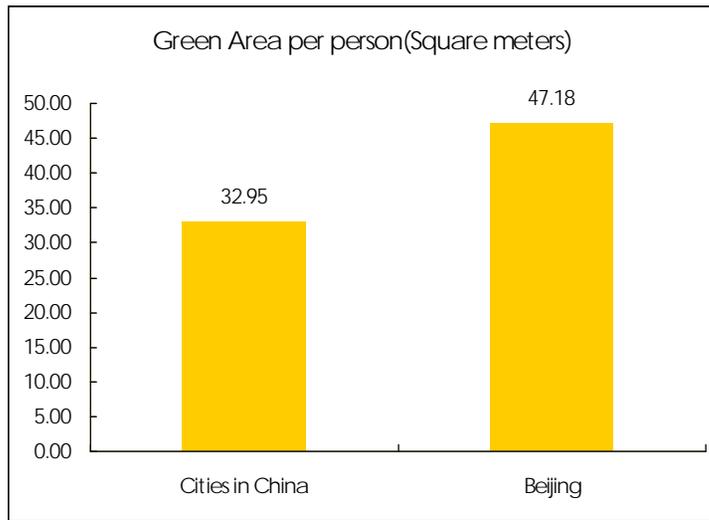
urban self-sufficiency



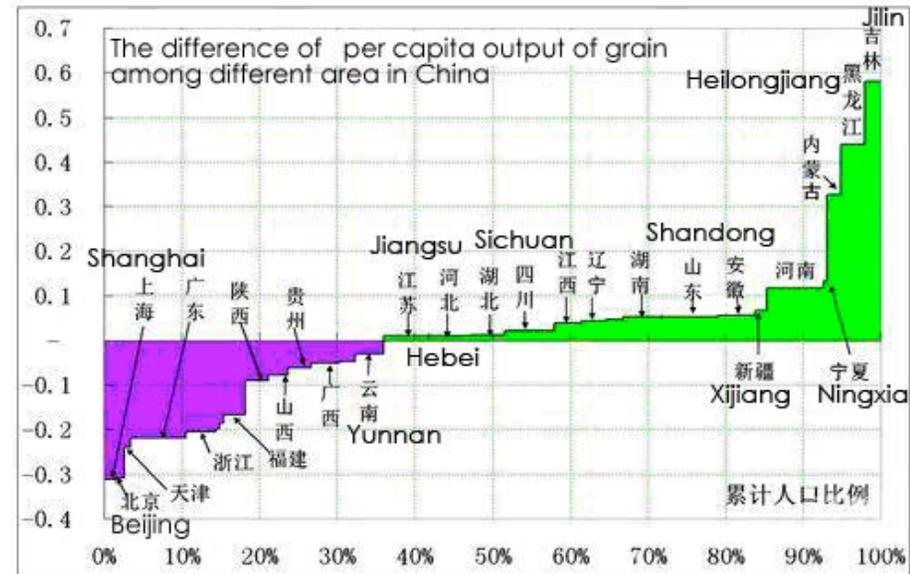
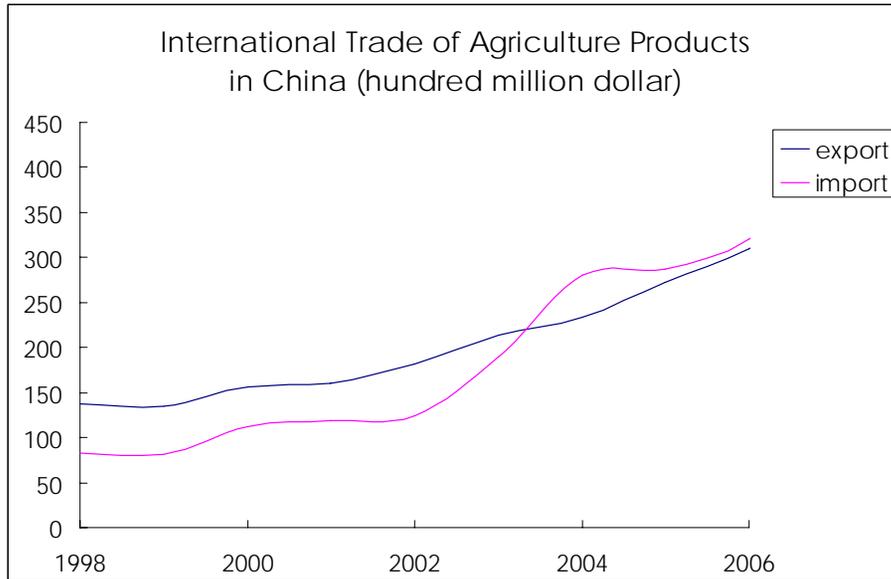
historical context



historical context



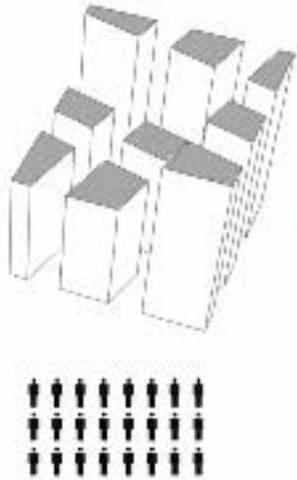
import economy



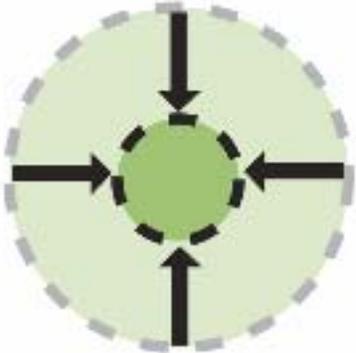
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
export	138.1	134.7	156.2	160.7	181.4	214.3	233.9	271.8	310.3	366.2
import	83.2	81.6	112	118.3	124.4	189.3	280.3	286.5	319.9	409.7

land use crisis

28% increase in population



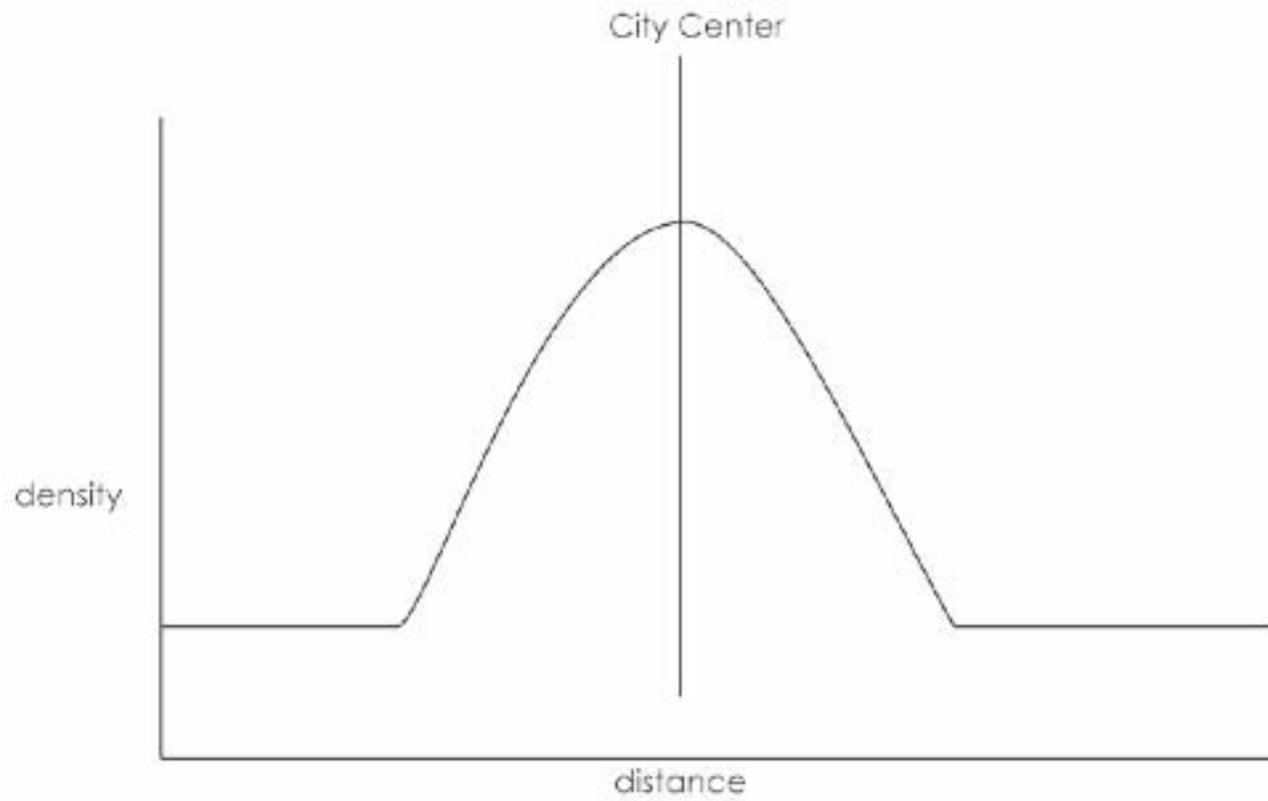
32% reduction in farmland



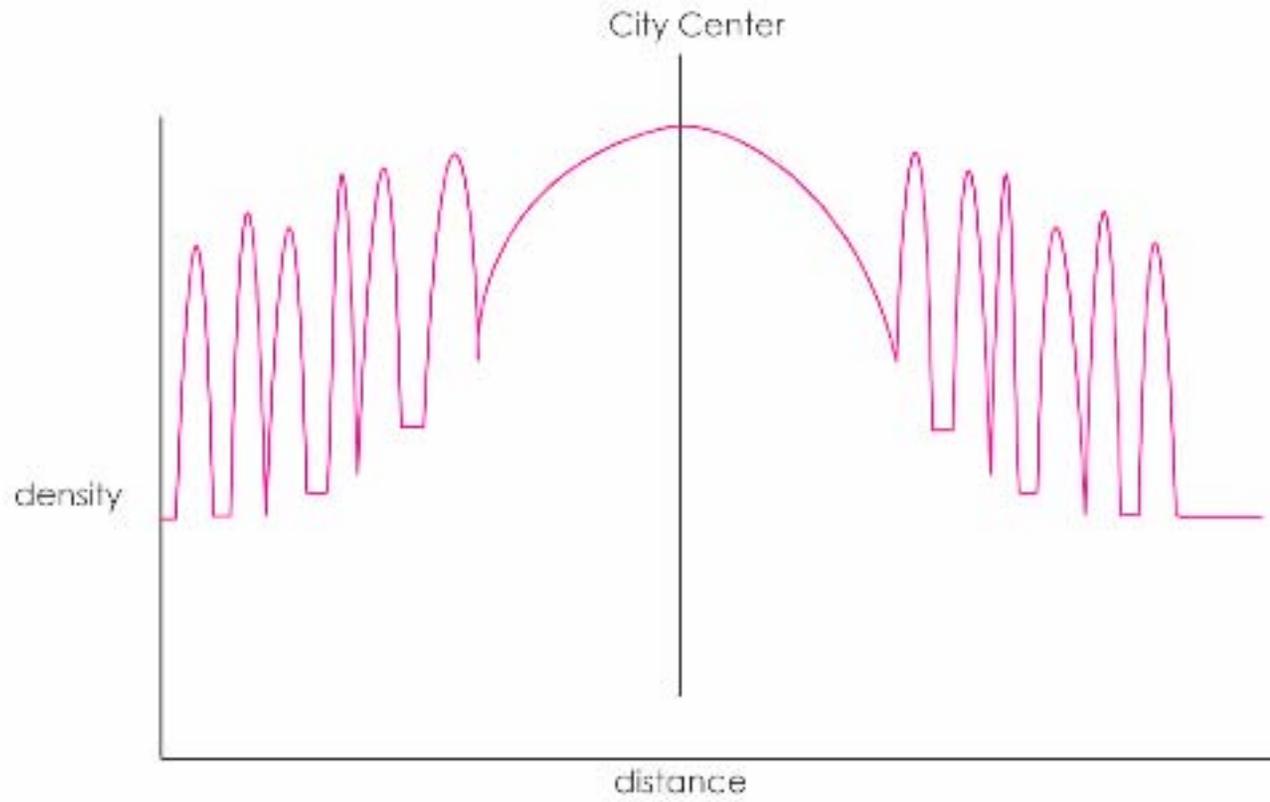
sky rocketing food prices



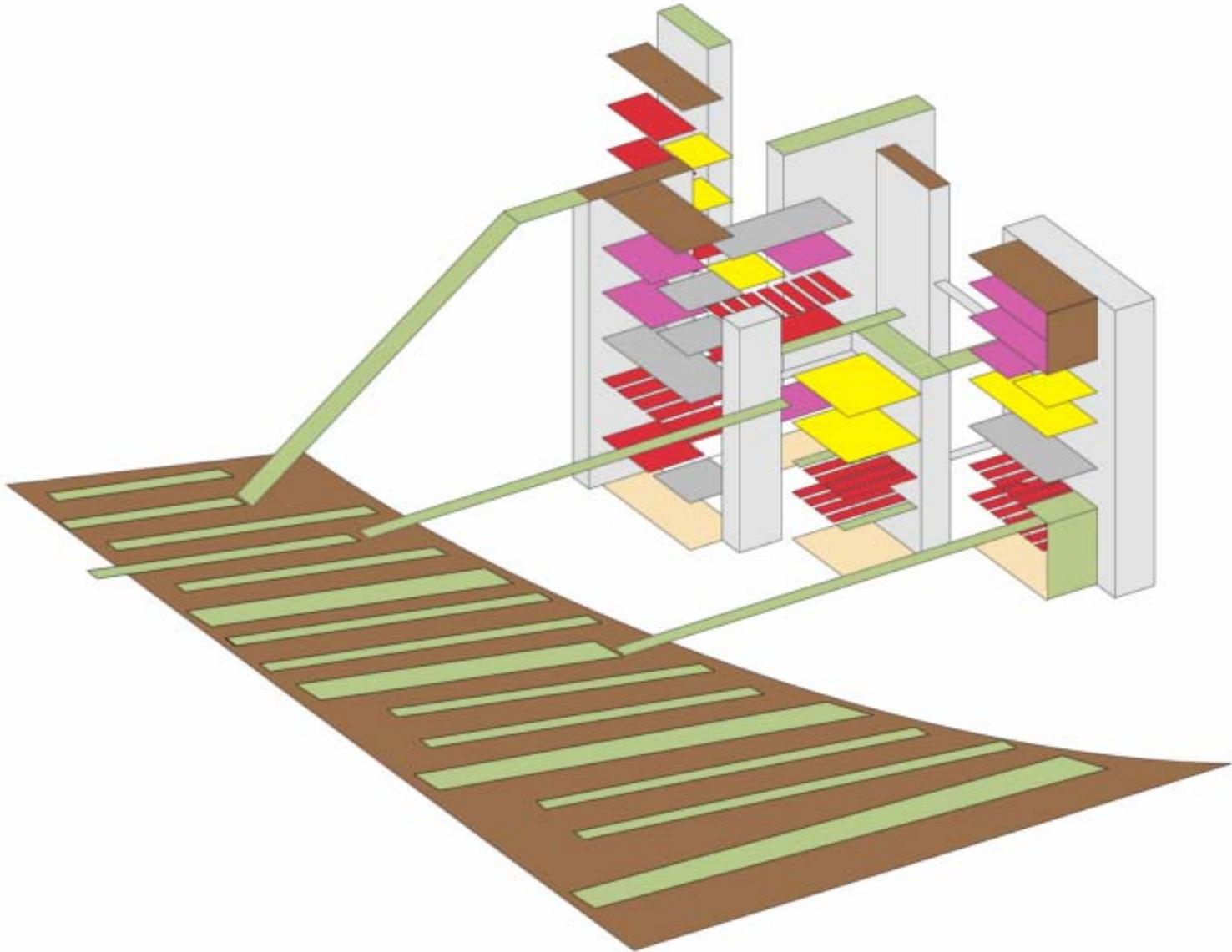
hyperdensity



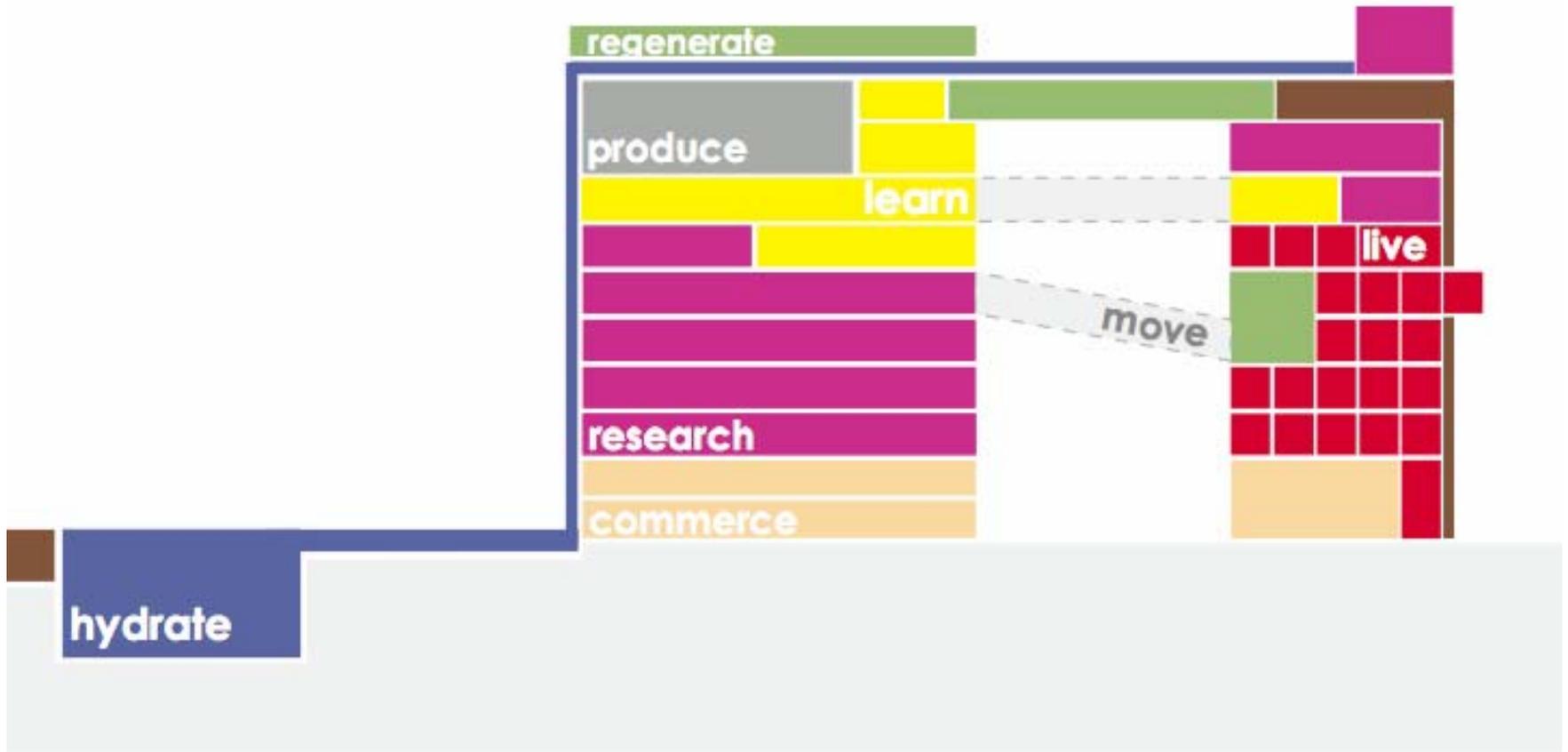
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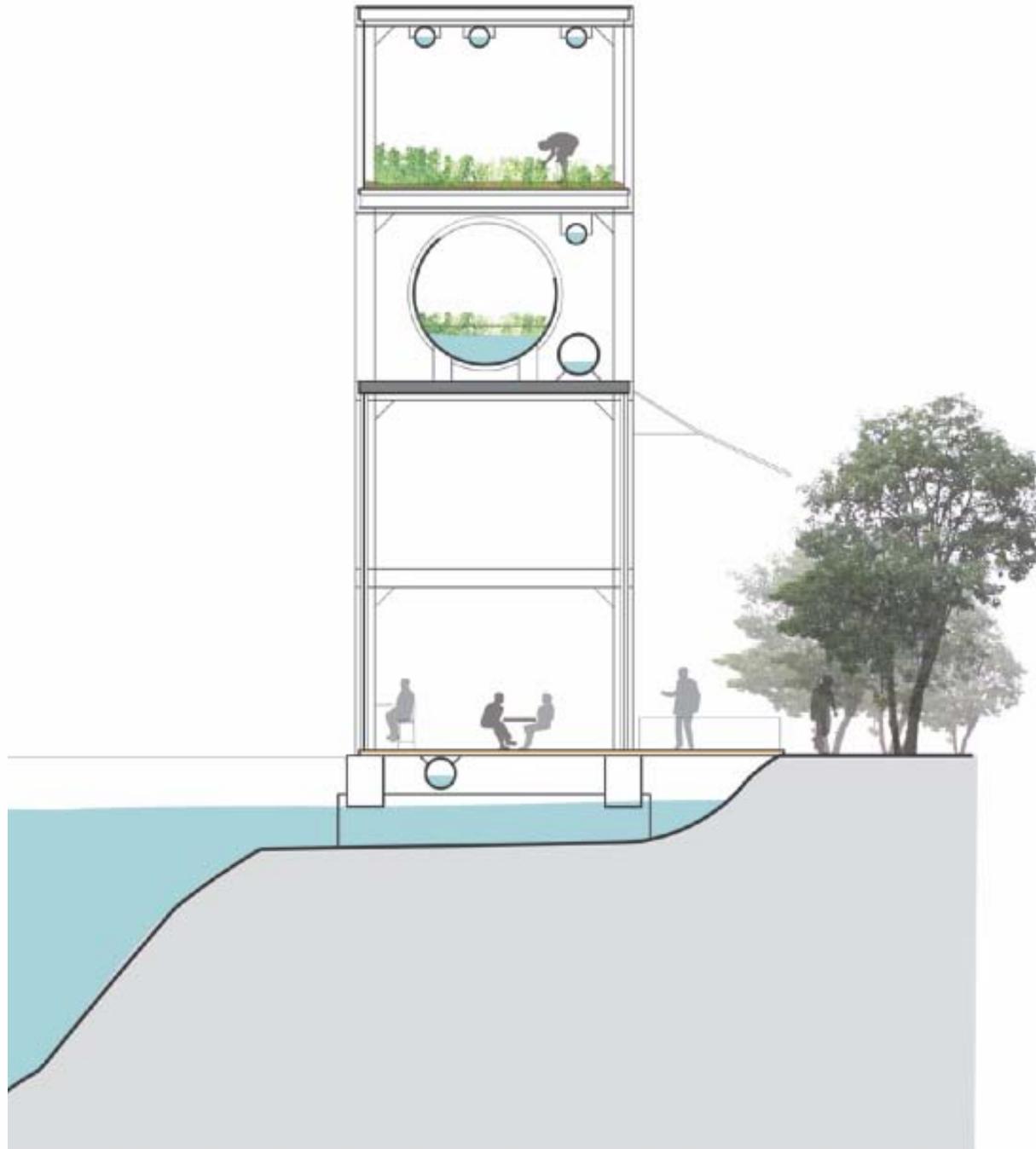
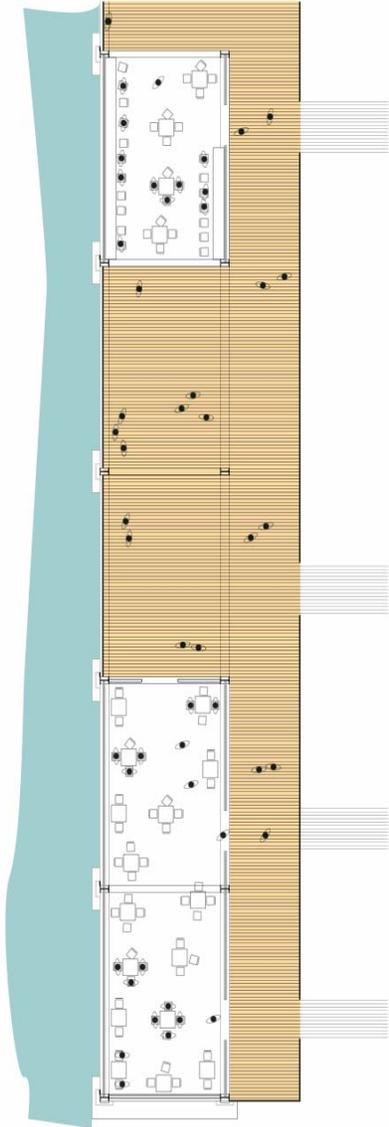
vertical infrastructure



vertical infrastructure



vertical infrastructure



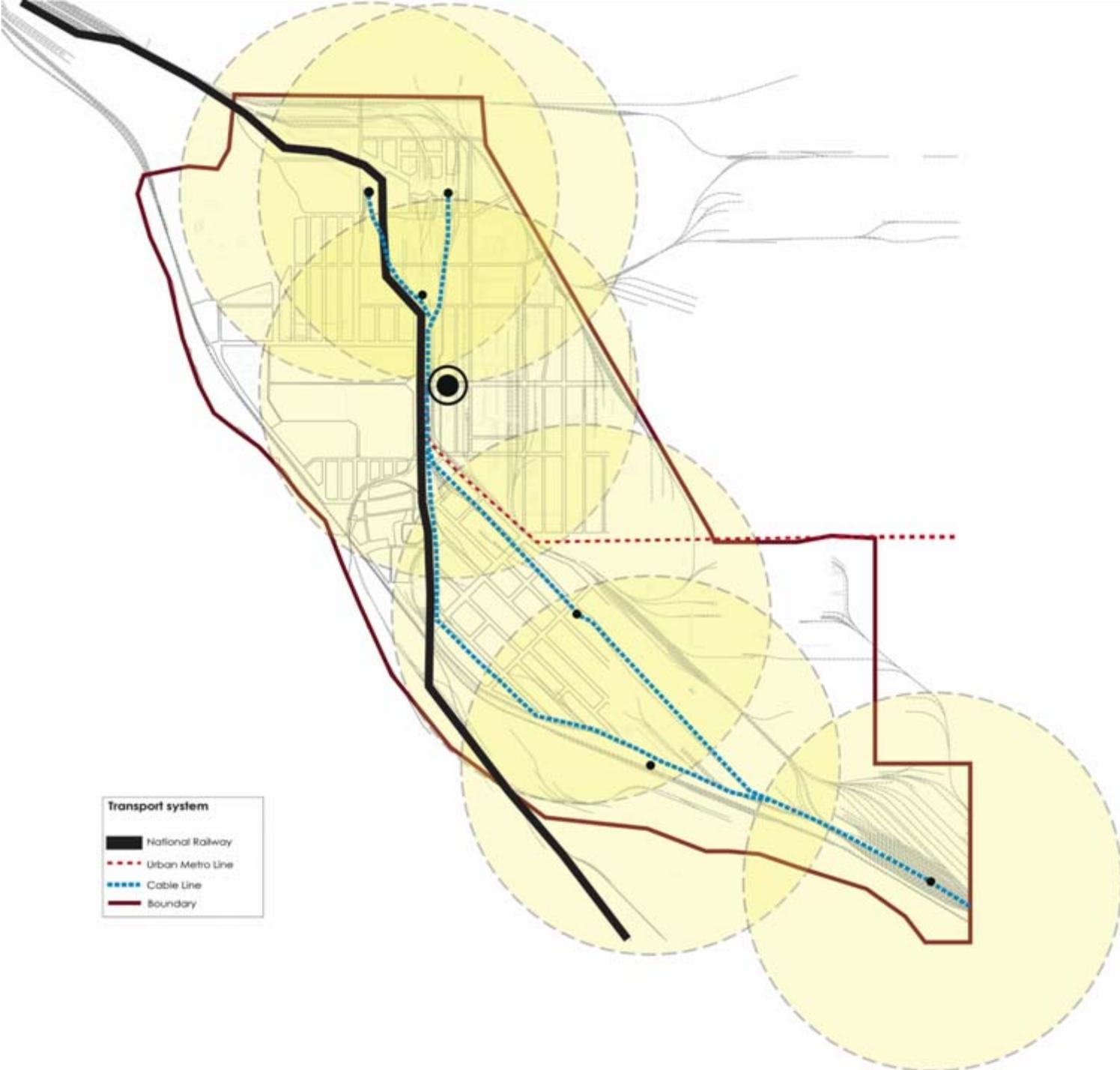
land use



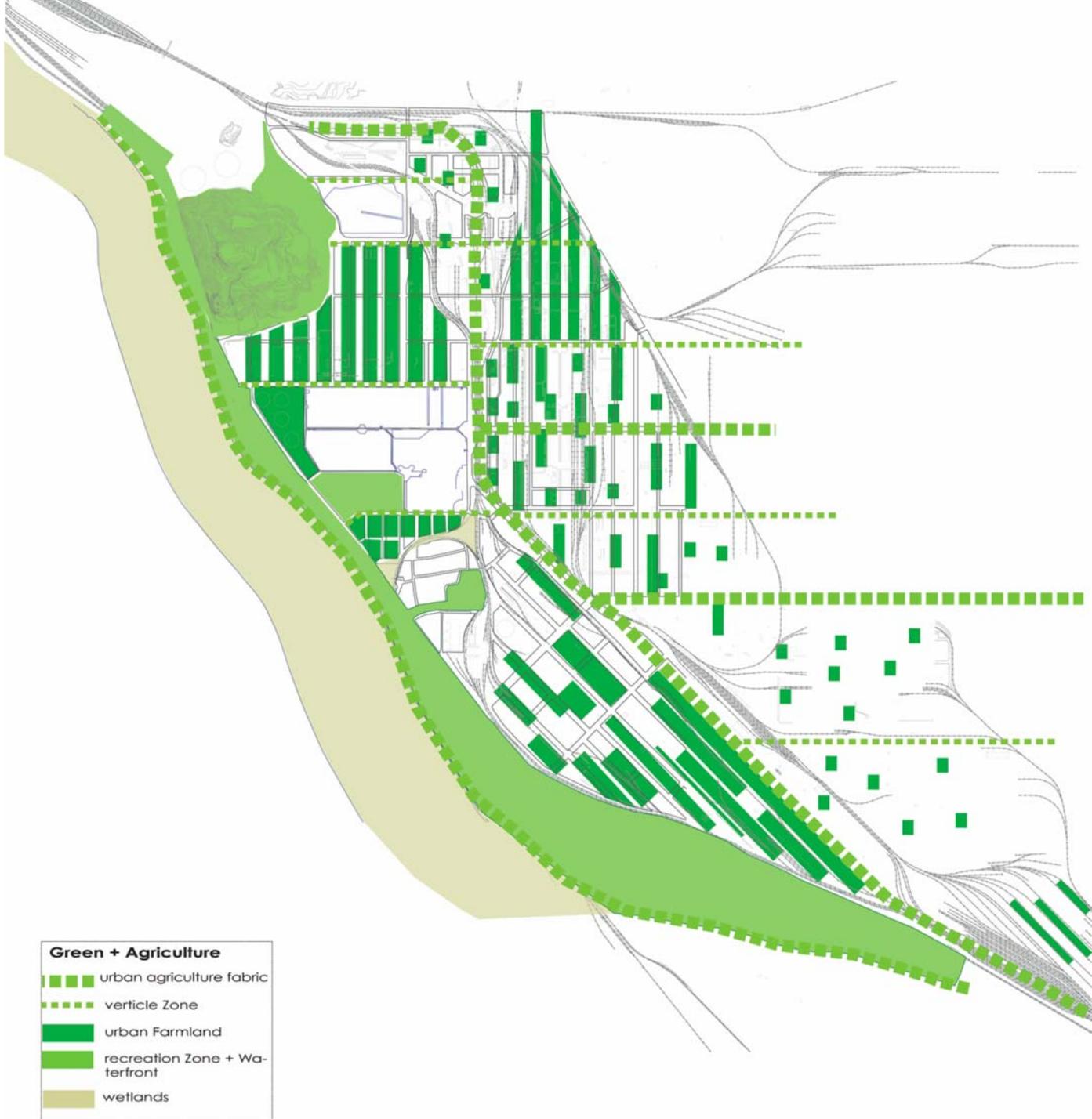
grid



mobility

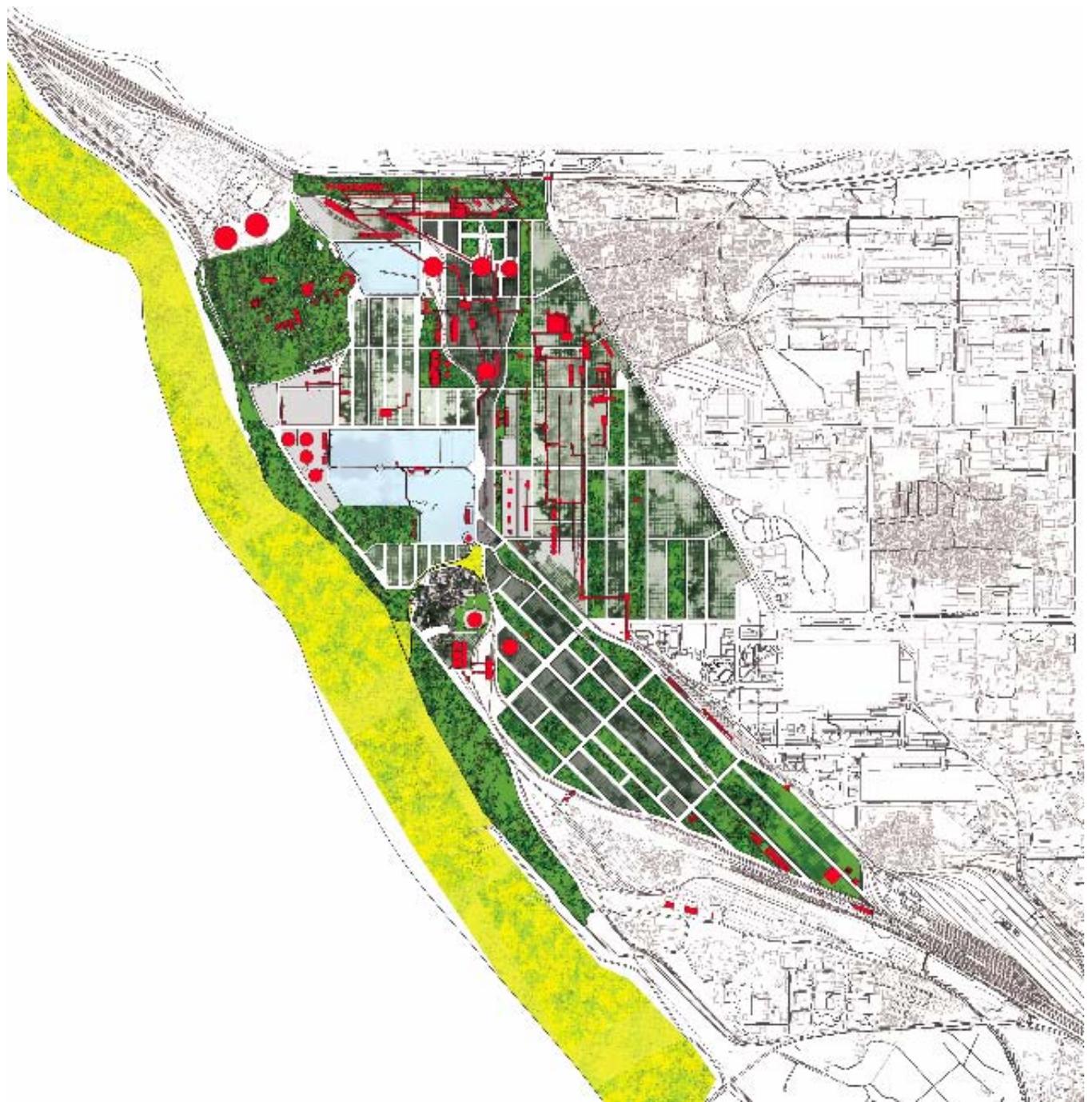


greenspace

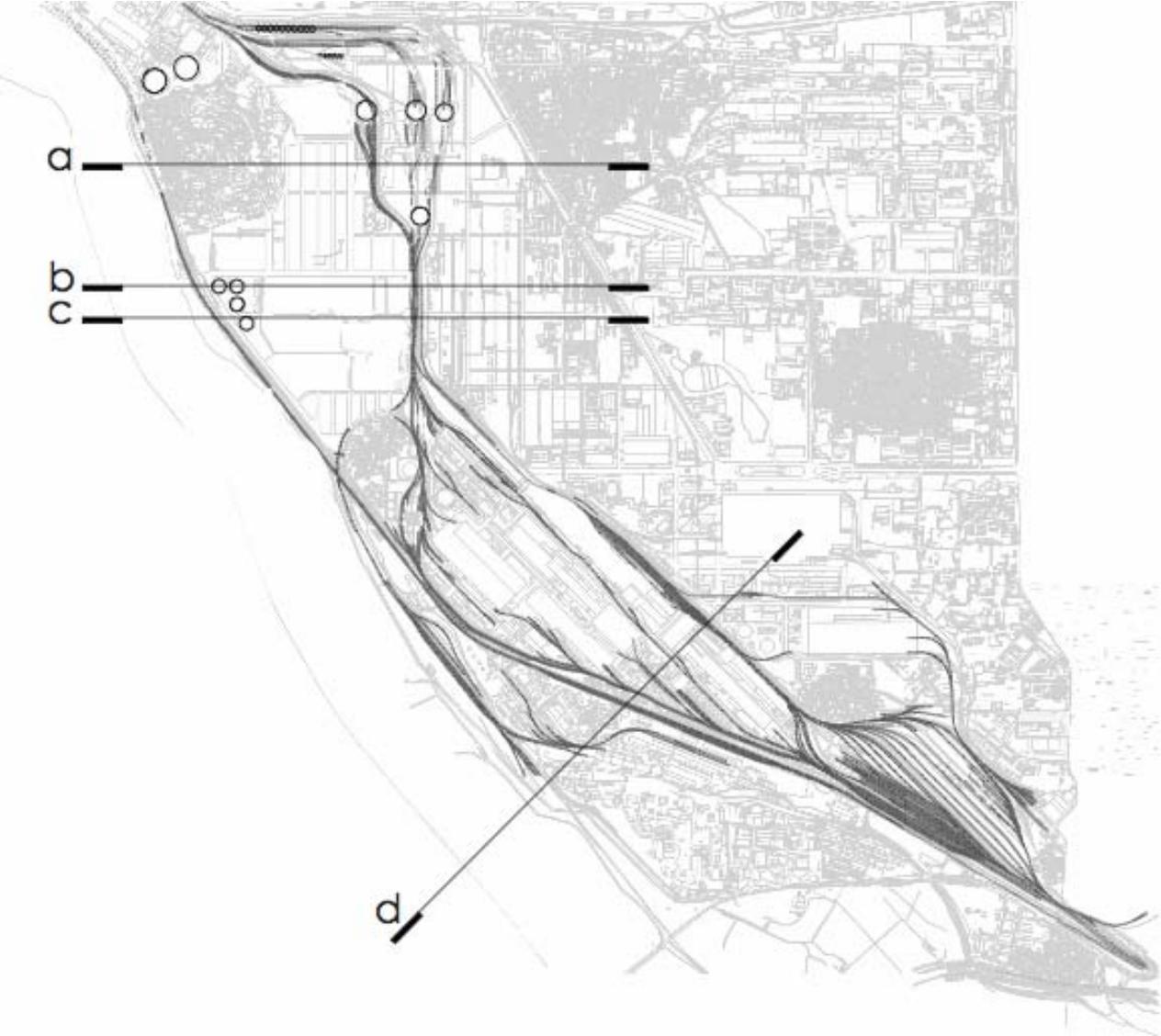


- Green + Agriculture**
- urban agriculture fabric
 - verticle Zone
 - urban Farmland
 - recreation Zone + Waterfront
 - wetlands

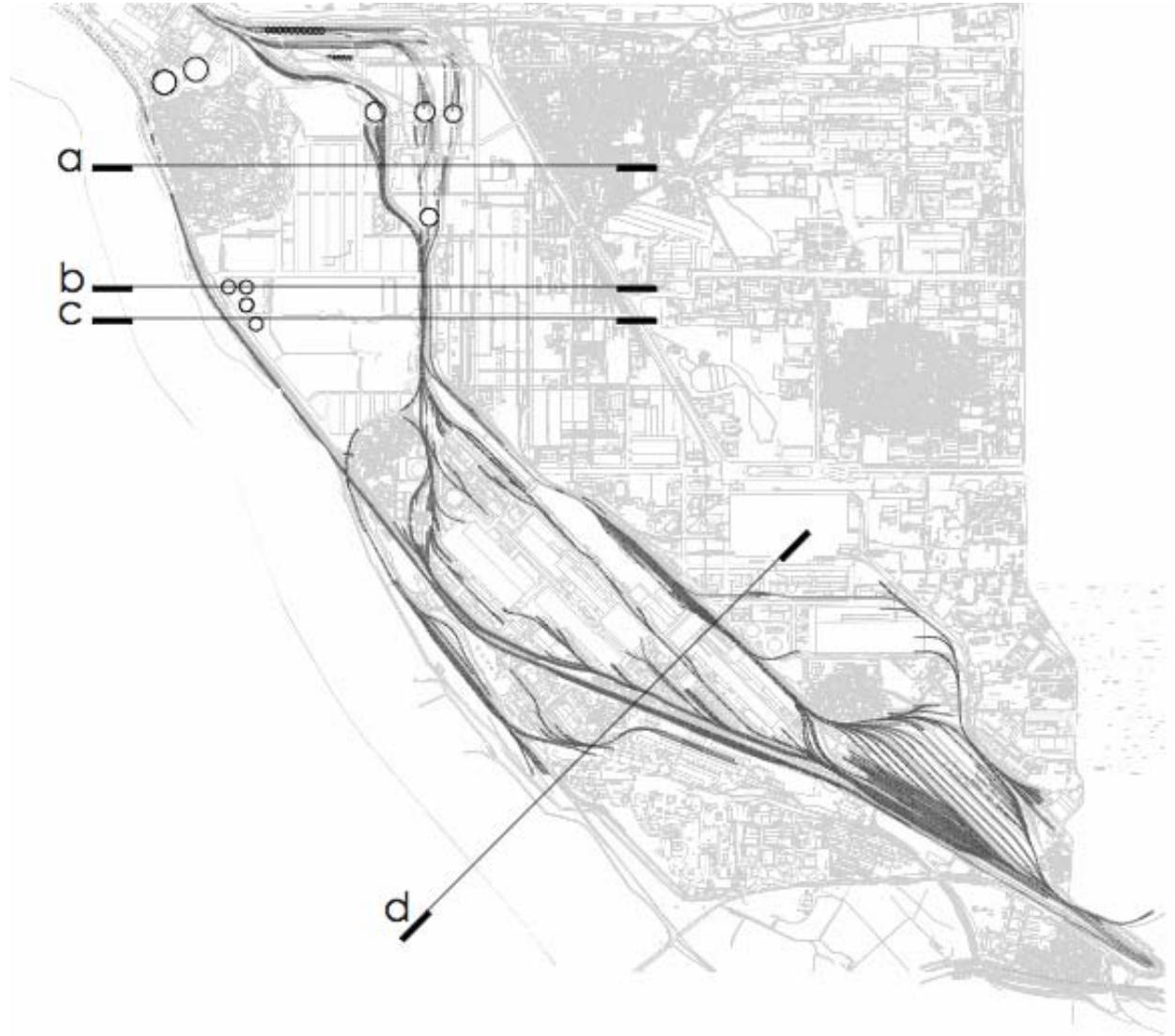
master plan



vertical infrastructure



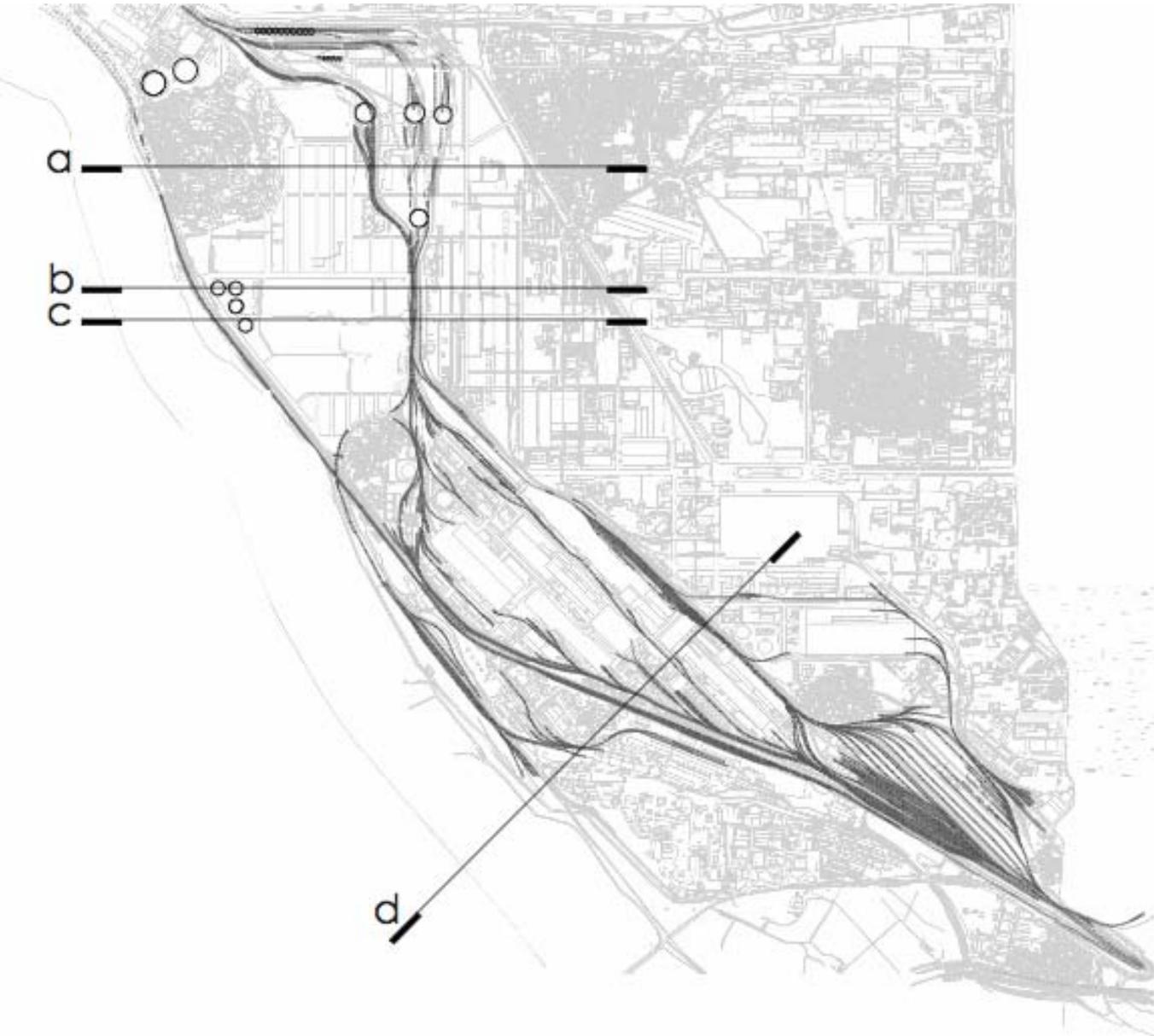
vertical infrastructure: section a



vertical infrastructure



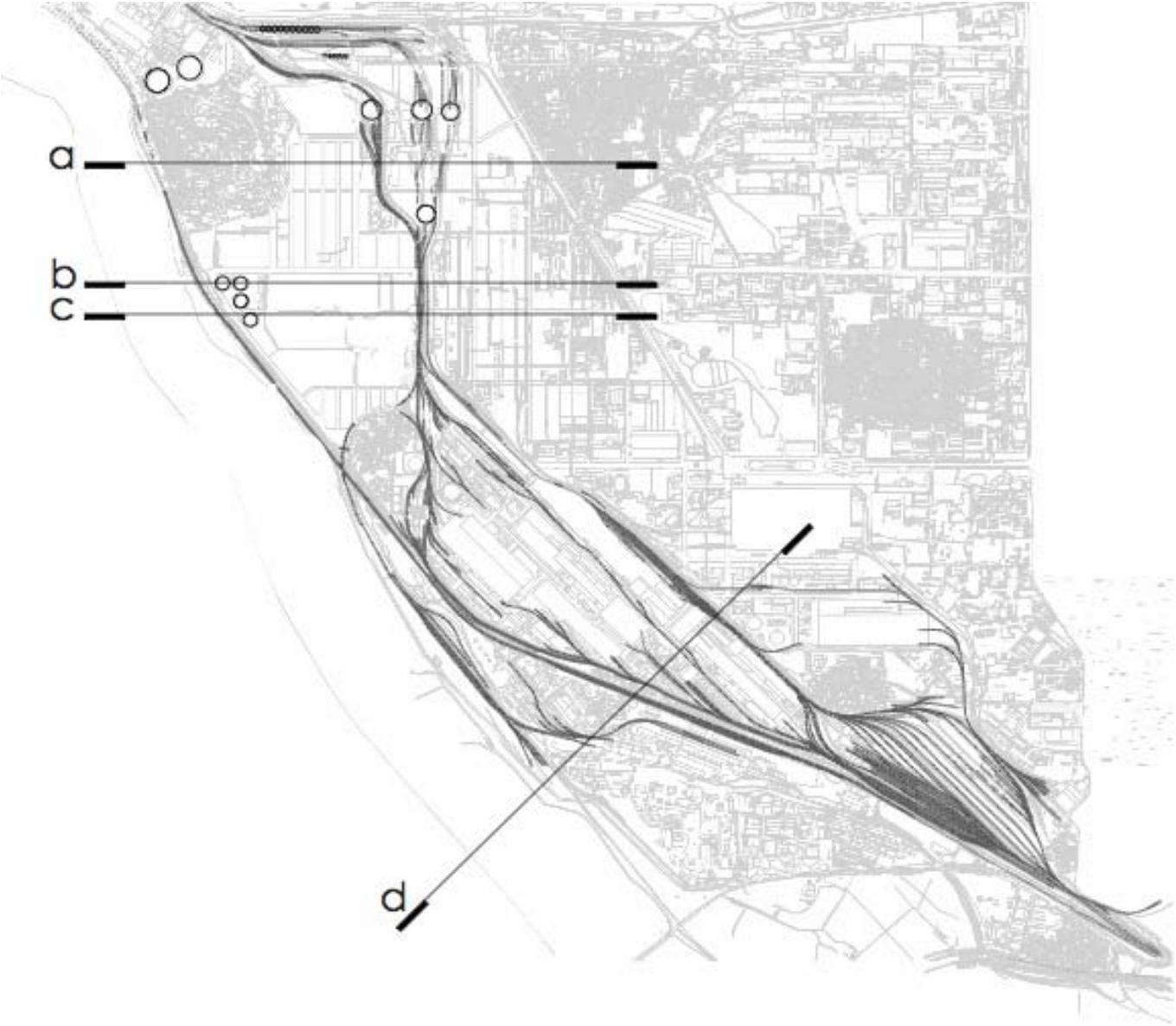
vertical infrastructure: section b



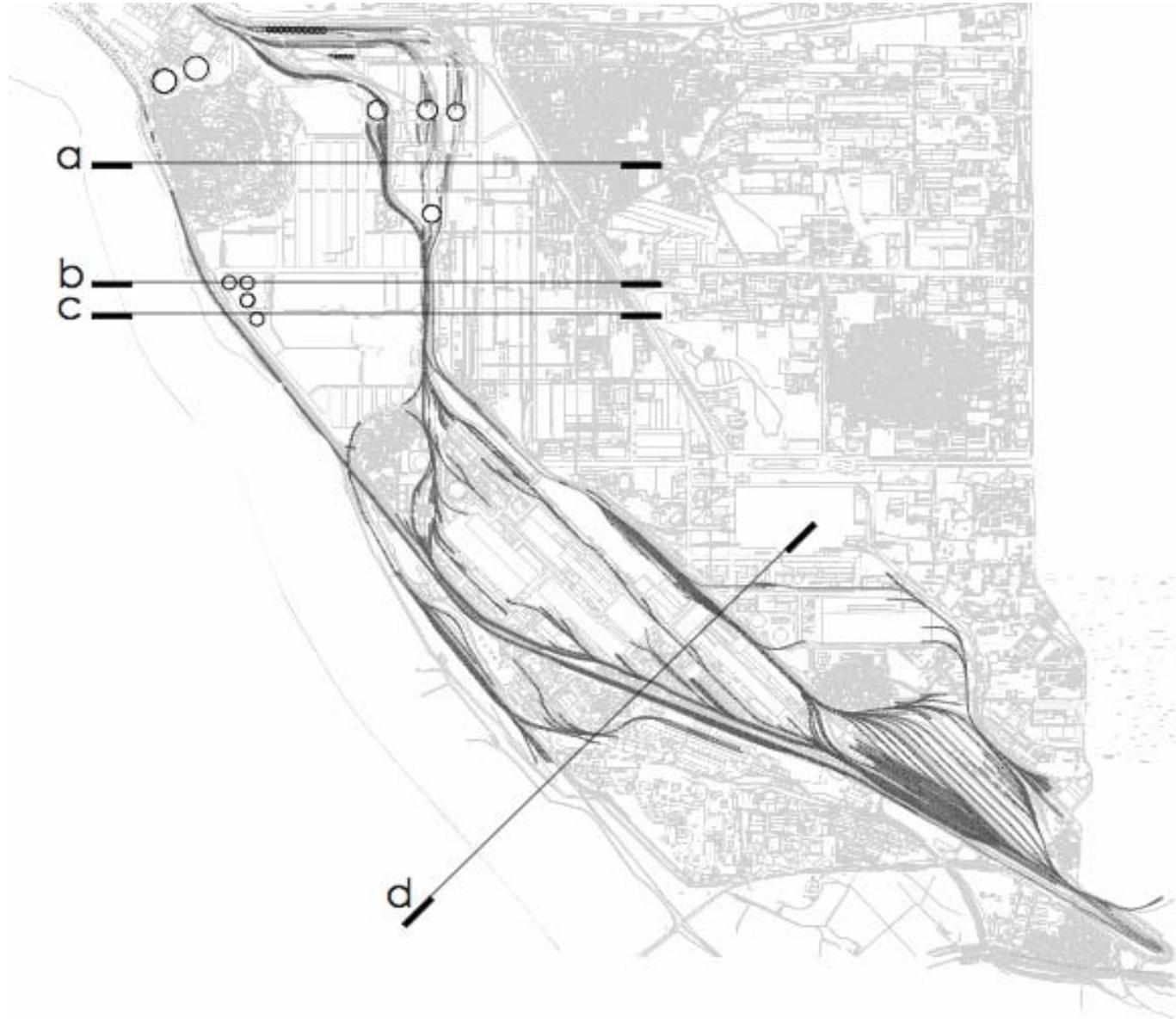
vertical infrastructure



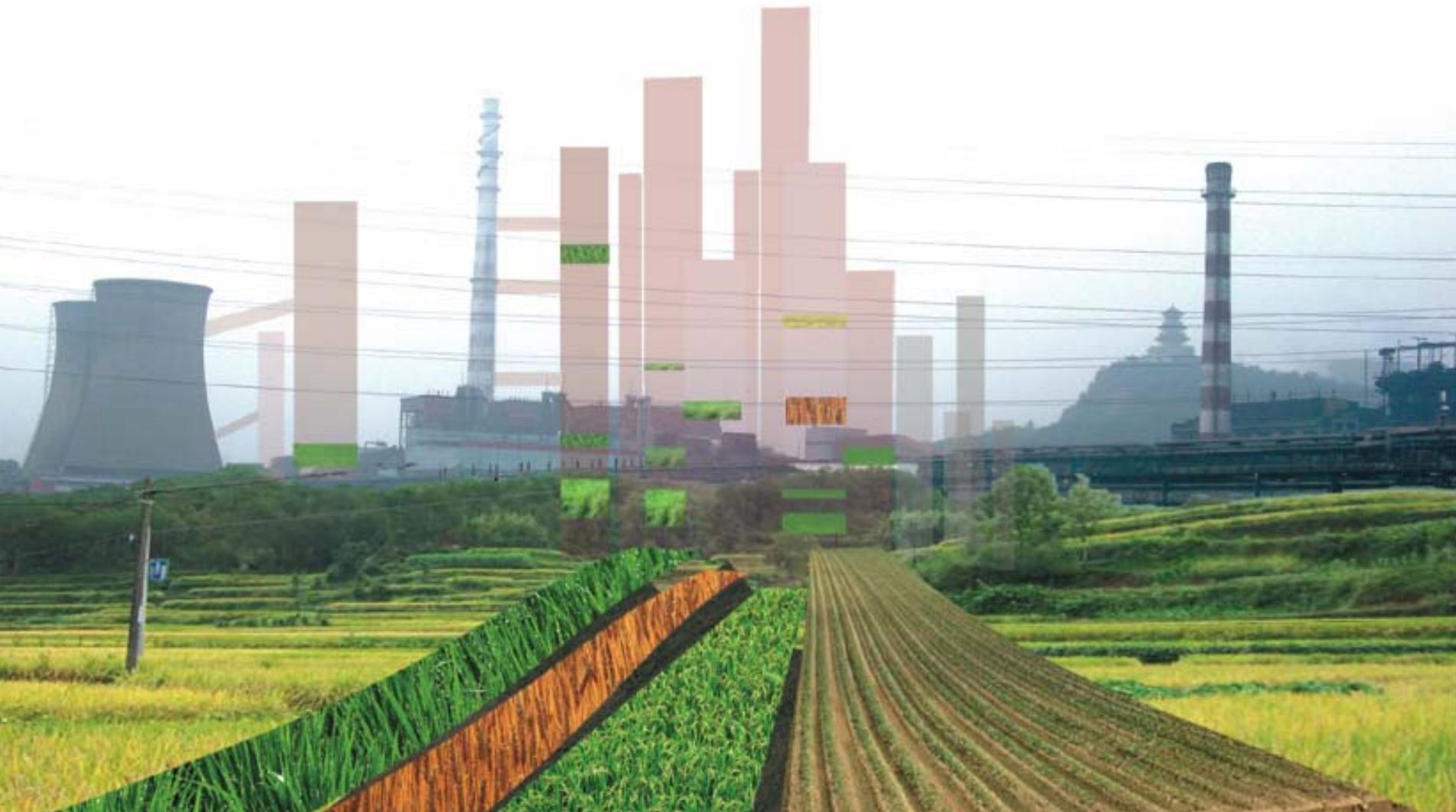
vertical infrastructure: section c



vertical infrastructure: section d



vertical infrastructure



vertical infrastructure

