



Sasparilla 3000

Shanghai



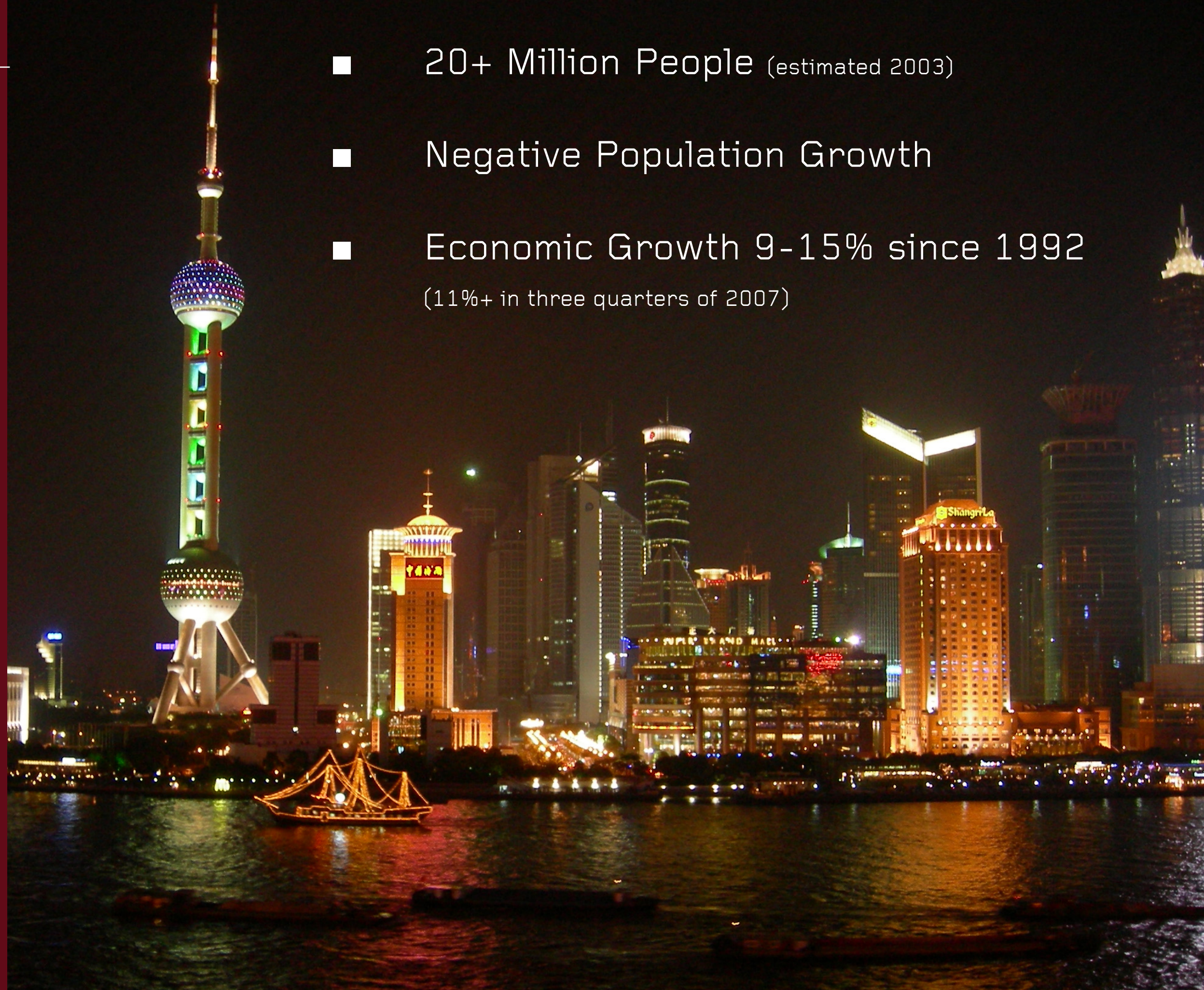
Shanghai

- 20+ Million People (estimated 2003)
- Negative Population Growth



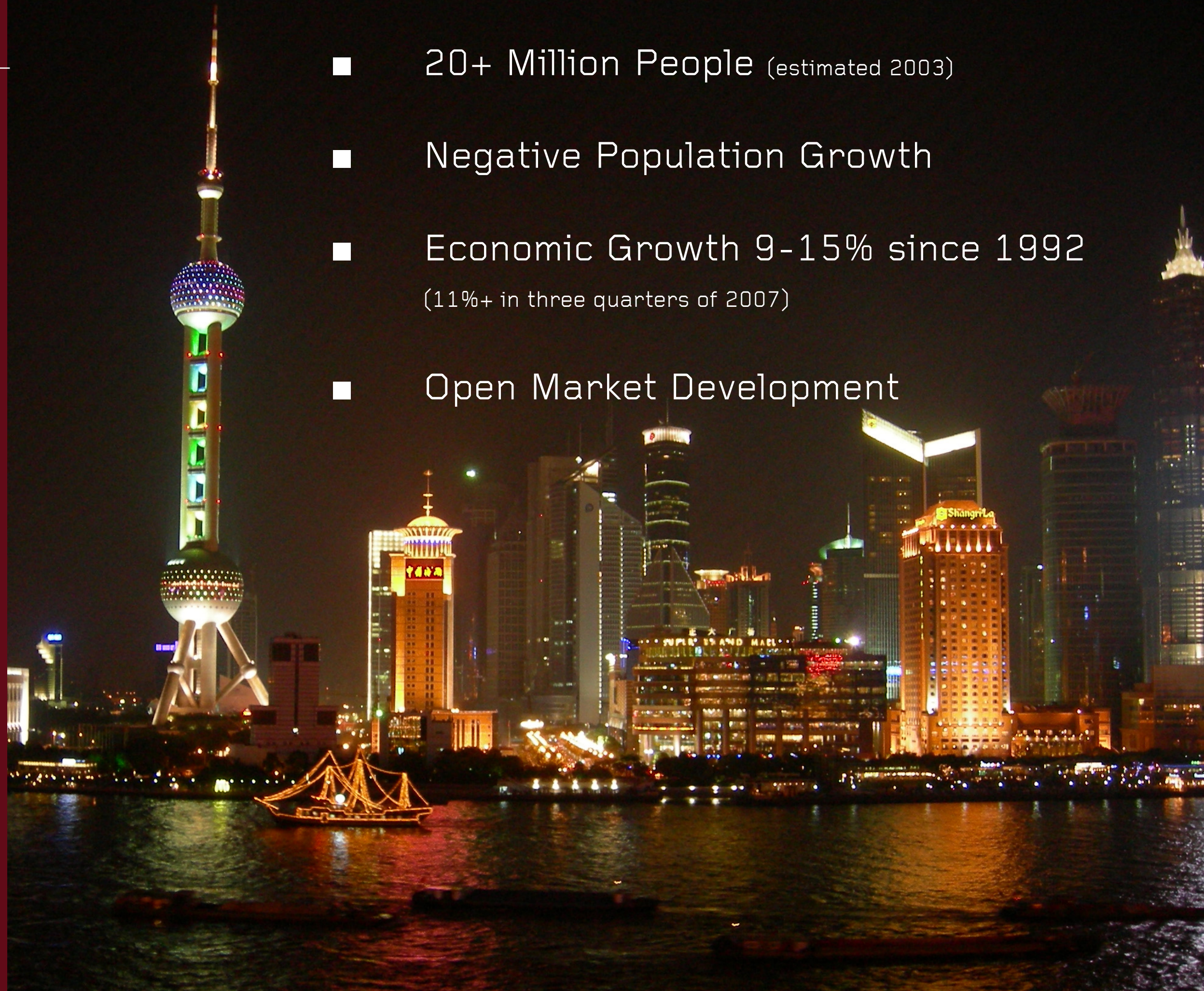
Shanghai

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- Economic Growth 9-15% since 1992
(11%+ in three quarters of 2007)



Shanghai

- 20+ Million People (estimated 2003)
- Negative Population Growth
- Economic Growth 9-15% since 1992
(11%+ in three quarters of 2007)
- Open Market Development



Shanghai

- Founded in the 11th century as a fishing Village
- Cotton industry made it the largest city in China in 1800
- Foreign trade allowed British, French and American settlers
- Influenced by Western Culture
- 1949 All foreigners lost control to communist party
- 1966~1976 Cultural Revolution allowed for reestablishment of trade



Problems of Shanghai



Problems of Shanghai



■ Pollution & Ecology



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Problems of Shanghai



- Pollution & Ecology
- Traffic (inefficient, produce from far away, congestion)



Problems of Shanghai



- Pollution & Ecology
- Traffic (inefficient, produce from far away, congestion)
- Lack of Open Space



Problems of Shanghai



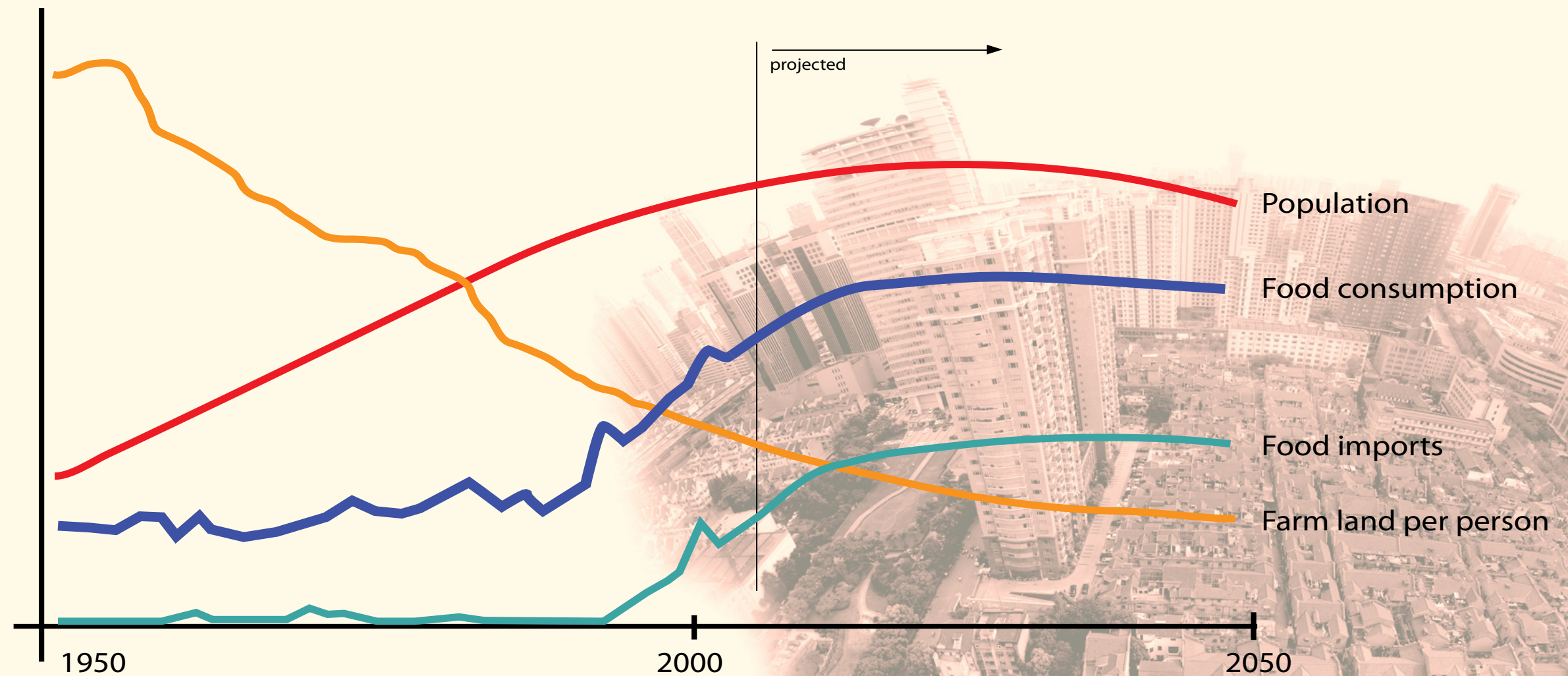
- Pollution & Ecology
- Traffic (inefficient, produce from far away, congestion)
- Lack of Open Space
- Replacement Housing Need



Problems of Shanghai



- Pollution & Ecology
- Traffic (inefficient, produce from far away, congestion)
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- Agricultural land shortage



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“China has lost fertile land equivalent of about the size of Maine each and every year for the past decade. To feed its population adequately, it should be adding that amount.”

Nicholas Vardy, Hayden Capital Management

“[China’s] production of wheat, corn, rice and other food grains dipped from a record high of 512 million tons in 1998 to 431 million tons in 2004, even as the population of 1.3 billion, despite all the controls, gains 11 million people a year.”

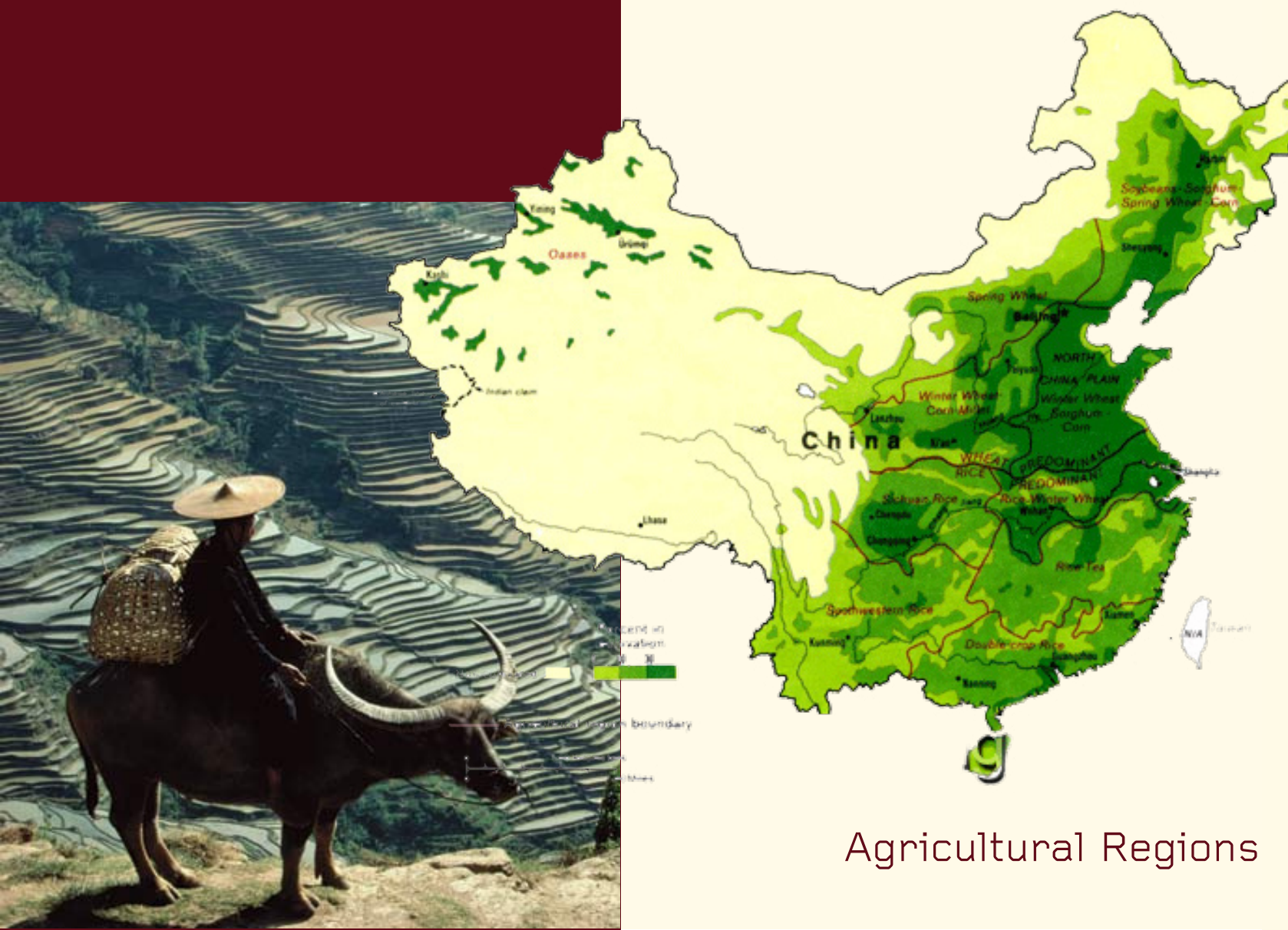
San Diego Tribune

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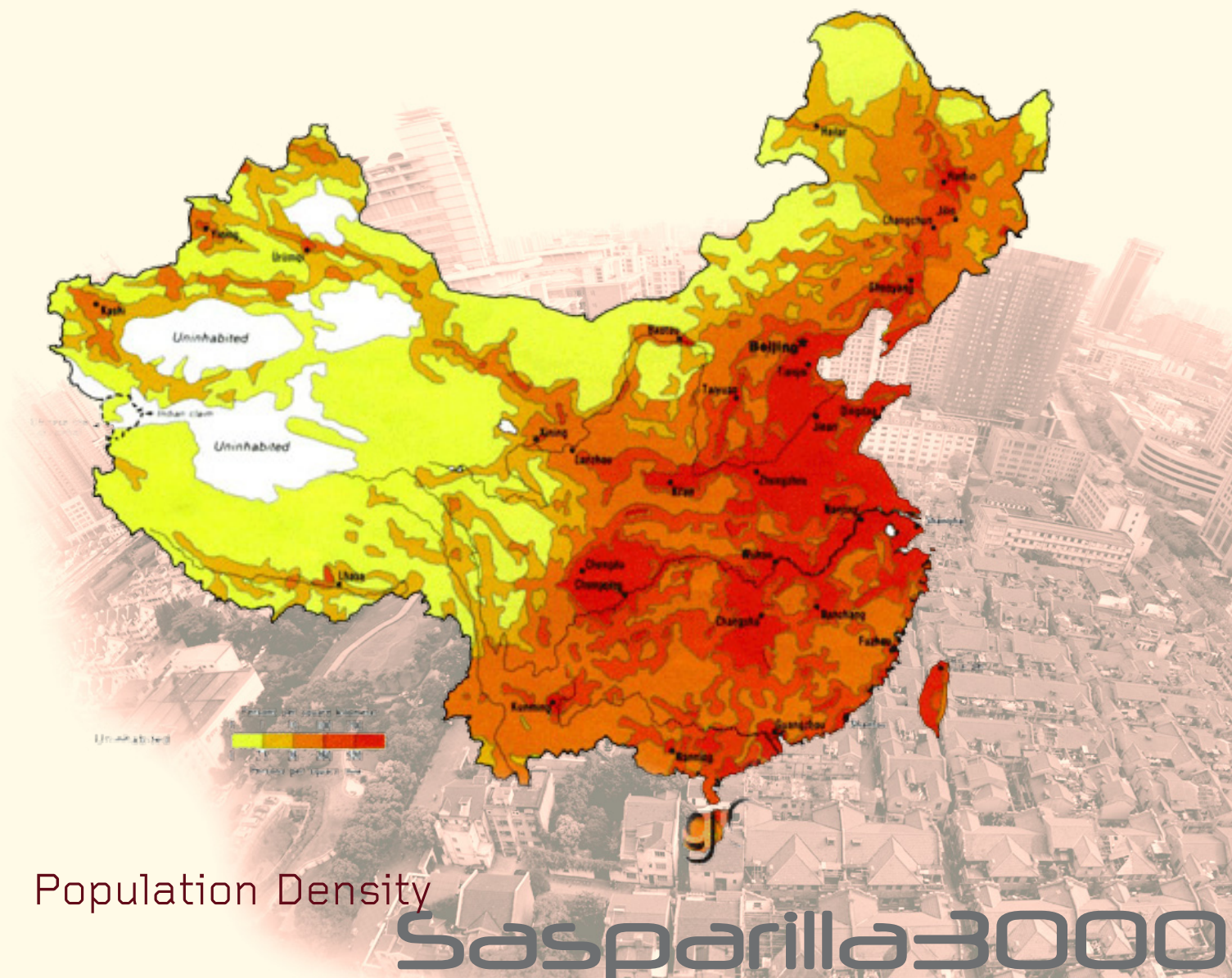
Problems of Shanghai



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Agricultural Regions



Population Density

Problems of Shanghai



- Pollution & Ecology
- Traffic (inefficient, produce from far away, congestion)
- Lack of Open Space
- Replacement Housing Need
- Agricultural land shortage
- Runaway Development



Problems of Shanghai



■ Lilong housing threatened



Lilong Fabric

Problems of Shanghai



■ Lilong housing threatened



Site situation



Problems of Shanghai



- Lilong housing threatened



Neighboring Block

Problems of Shanghai



- Lilong housing threatened



Reconstruction

Problems of Shanghai

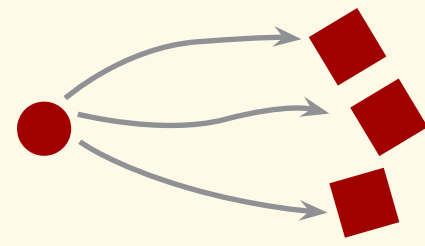


■ Lilong housing threatened



Undesired Outcome

Solutions for Shanghai

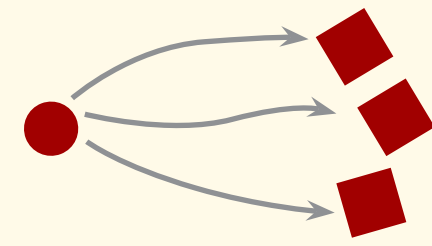


Open Space



Sasporilla 3000

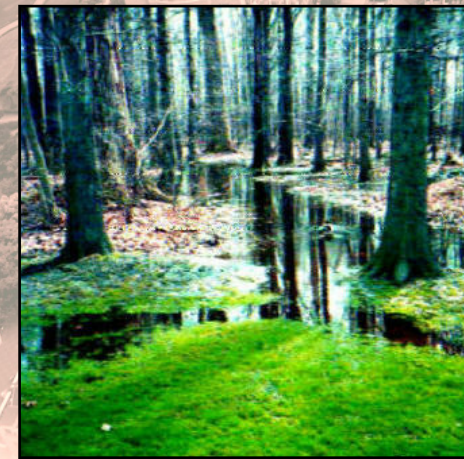
Solutions for Shanghai



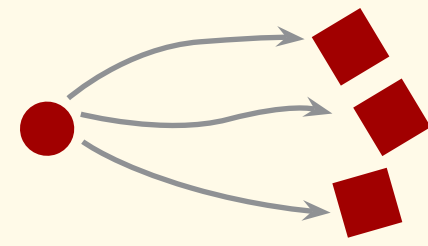
Open Space

Pollution & Ecology

- Forest (co2 reduction, particulate matter reduction)
- Wetlands (water filtration, particulate matter reduction)
- Solar Plant (renewable energy)
- Urban Agriculture



Solutions for Shanghai

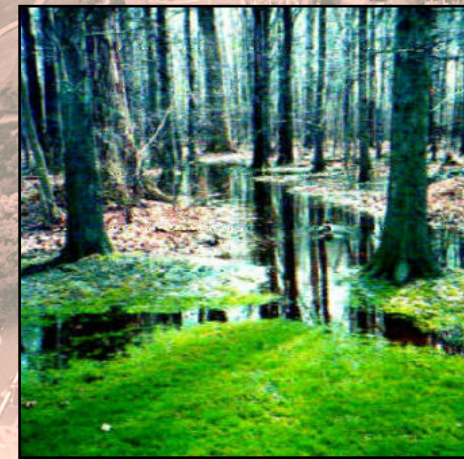


Pollution & Ecology

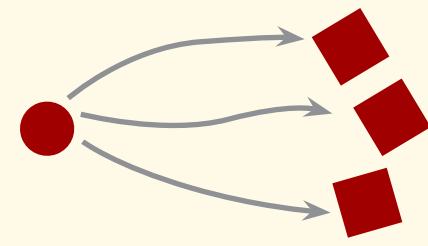
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- Wetlands (water filtration, particulate matter reduction)
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Traffic

- Promote public transportation
- Car-less development
- Density
- Live-work
- Self contained



Solutions for Shanghai

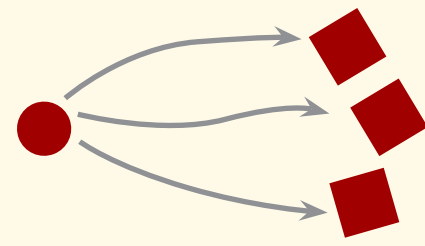


Open Space

- Park
- Urban wetlands
- Rooftop use
- Public, Semi-Public & Private divisions
- Courtyard / Scaled Open Space



Solutions for Shanghai



Open Space

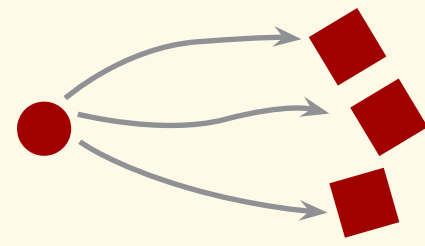
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Runaway Development

- **Master Plan**



Solutions for Shanghai



Open Space

- Park
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Runaway Development

- **Master Plan**

Replacement Housing

- **Preserve and maintain Lilongs as residential**



Issues of the Site



Issues of the Site

Quality v. Quantity



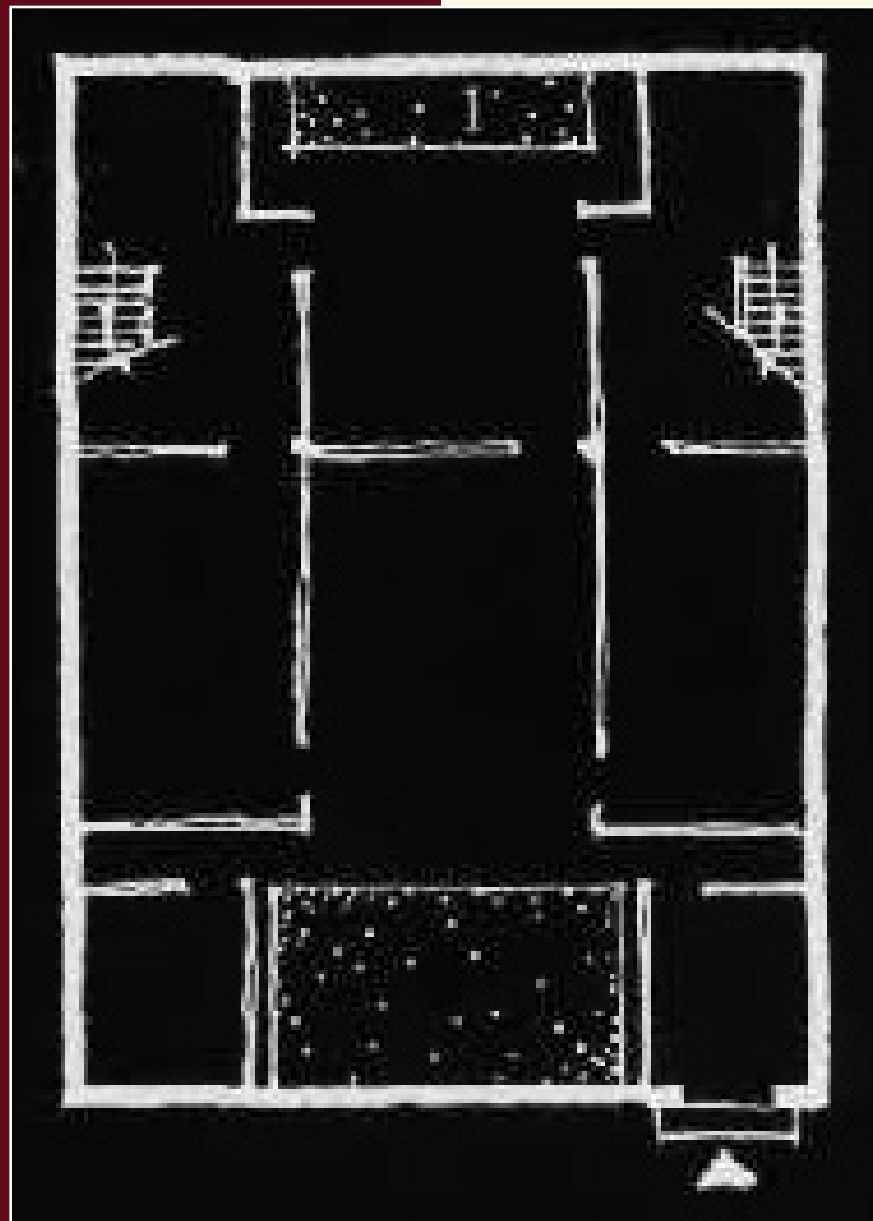
v.



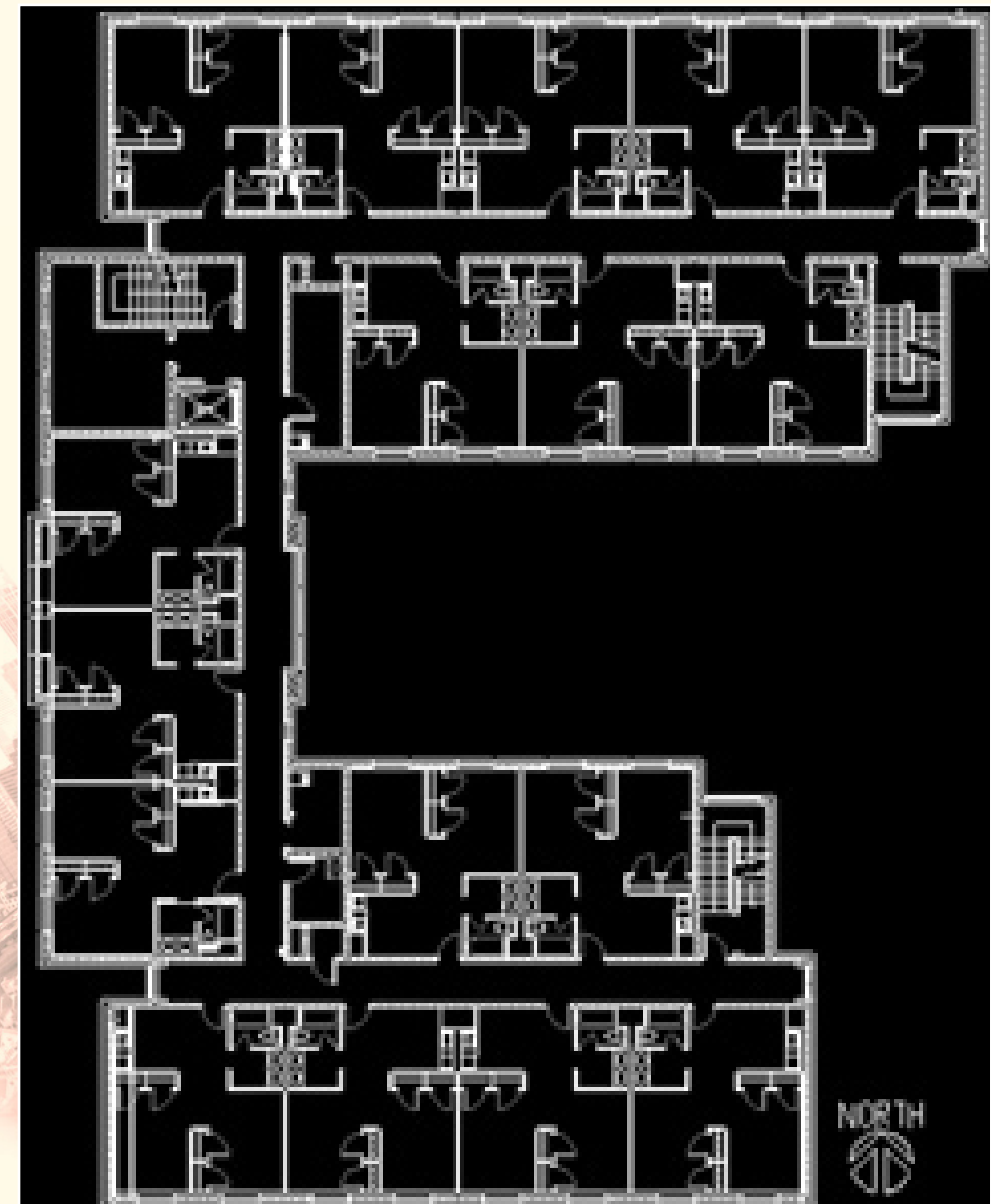
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Issues of the Site

Community v. Isolation



V.



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Issues of the Site

Small v. Big
Economies

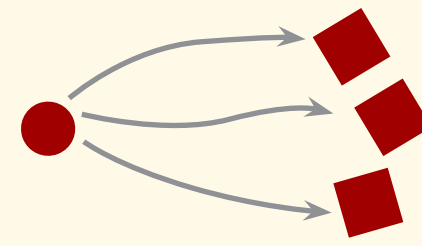


v.



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Solutions for the Site



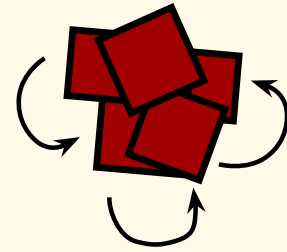
Community v. Isolation

- Informal Markets
- Small stores
- Designated shop space reserved for locals



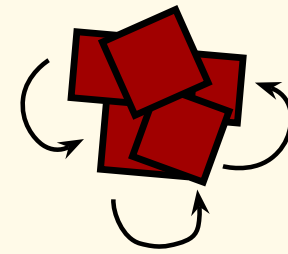
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Master Plan



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Master Plan

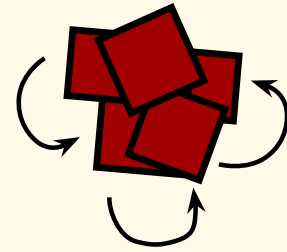


- **City scale:**
- Re-establish viability of Lilongs
- Guide speculative development in a formal and value sense
- Establish a sustainable foundation for existing and future growth



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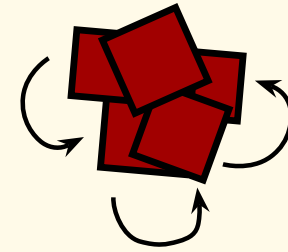
Master Plan



- **City scale:**
- Re-establish viability of Lilongs
- Guide speculative development in a formal and value sense
- Establish a sustainable foundation for existing and future growth

- **Block Scale:**
- Open up lilongs from the inside to generate open space
- Provide space for speculative development and maintain lilongs
- Create pedestrian and bicycle thoroughfares
- Provide local centers with cultural, civic, employment and retail

Master Plan

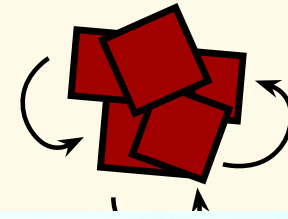


- **Street Scale:**
- Provide high quality pedestrian and bicycle amenities
- Use channels and waterways to connect centers mid-block
- Reduce traffic by providing local food sources
- Create a more varied street scape with mixed residential, retail, food & entertainment, production and parks & open spaces



Sasparilla 3000

Master Plan



Canal in Suzhou

Painting of old Shanghai Canal

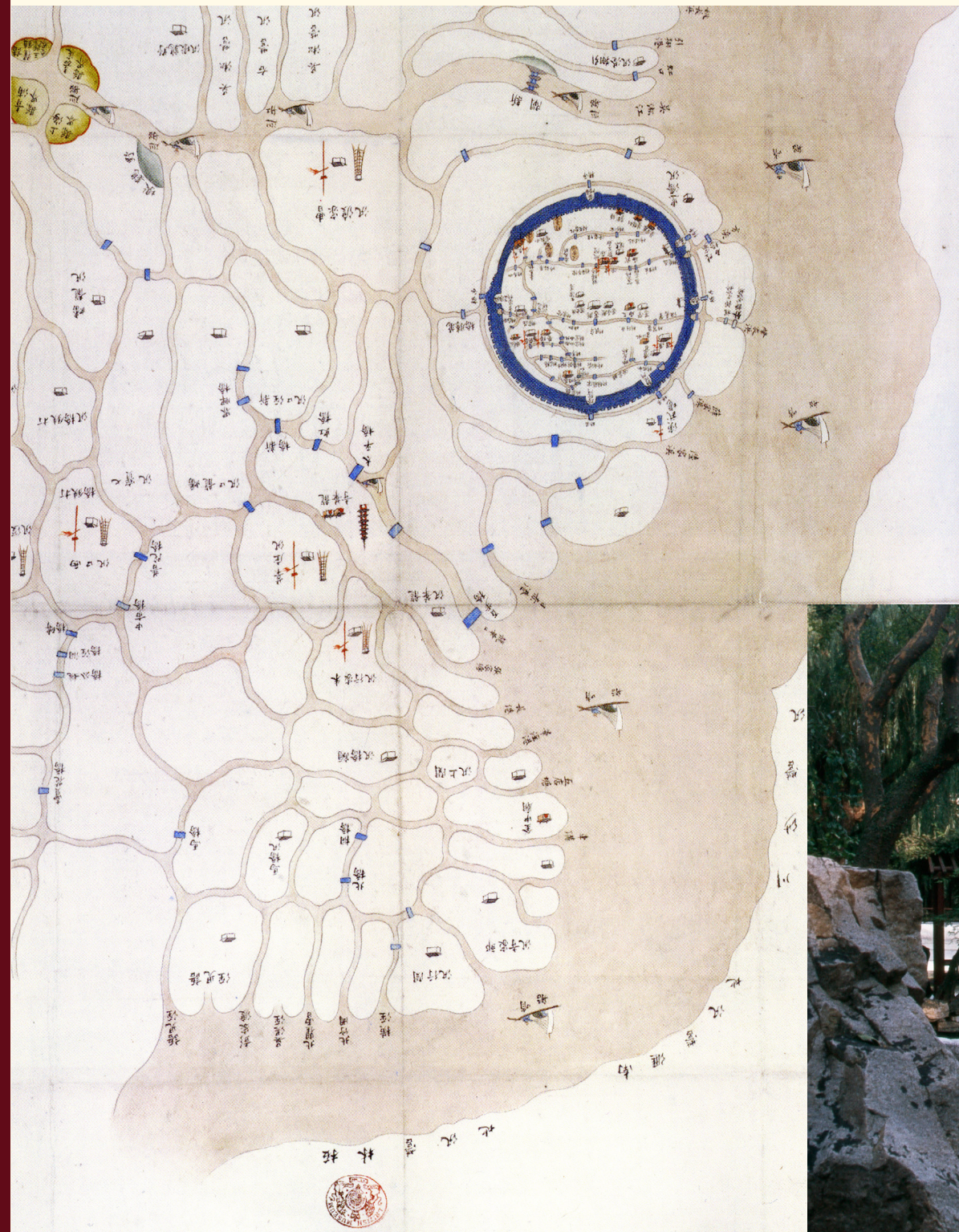
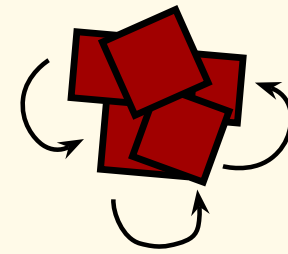


Canal in Beijing

Painting of old Shanghai Canal



Master Plan

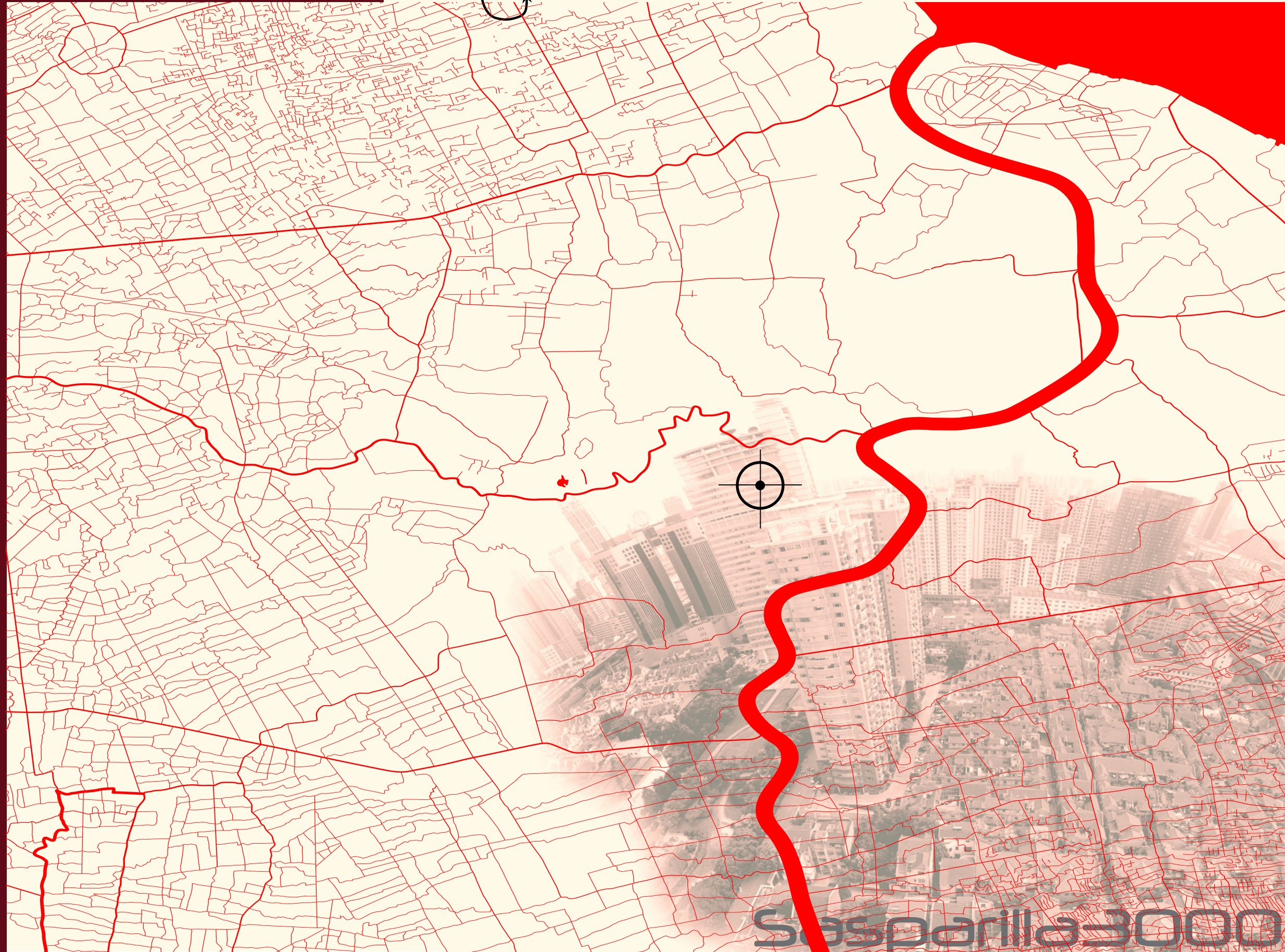
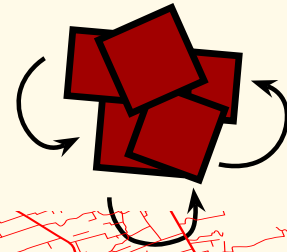


Map of previously existing Canals

Traditional water usage

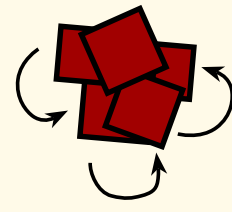


Master Plan

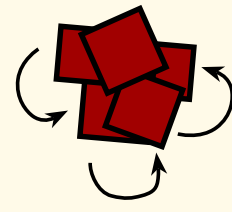


Map of previously
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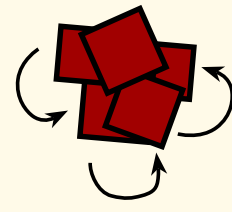
Master Plan



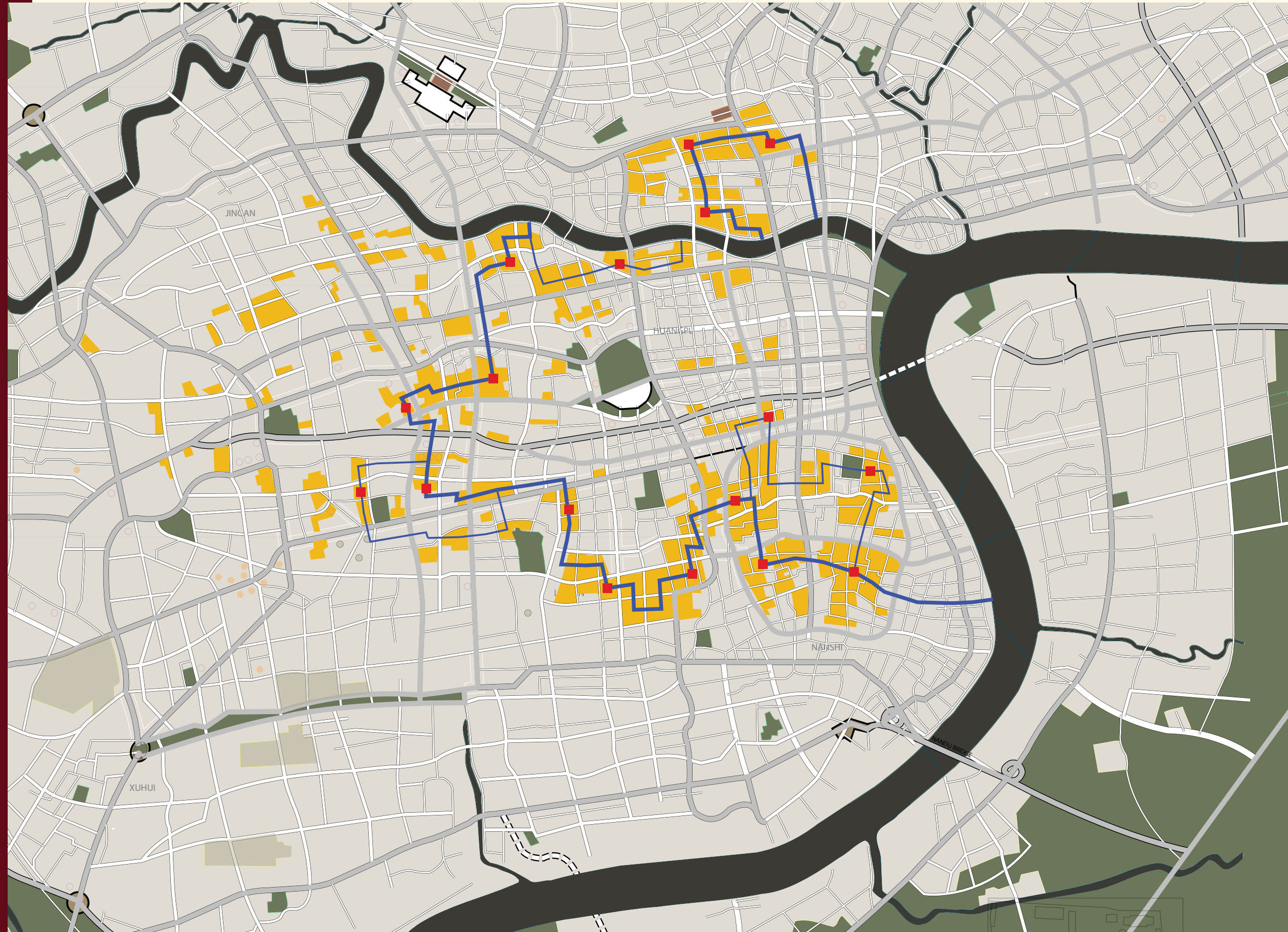
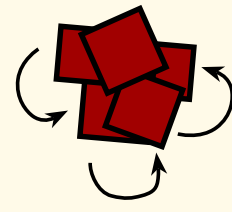
Master Plan

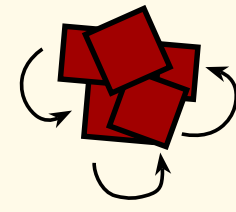


Master Plan



Master Plan

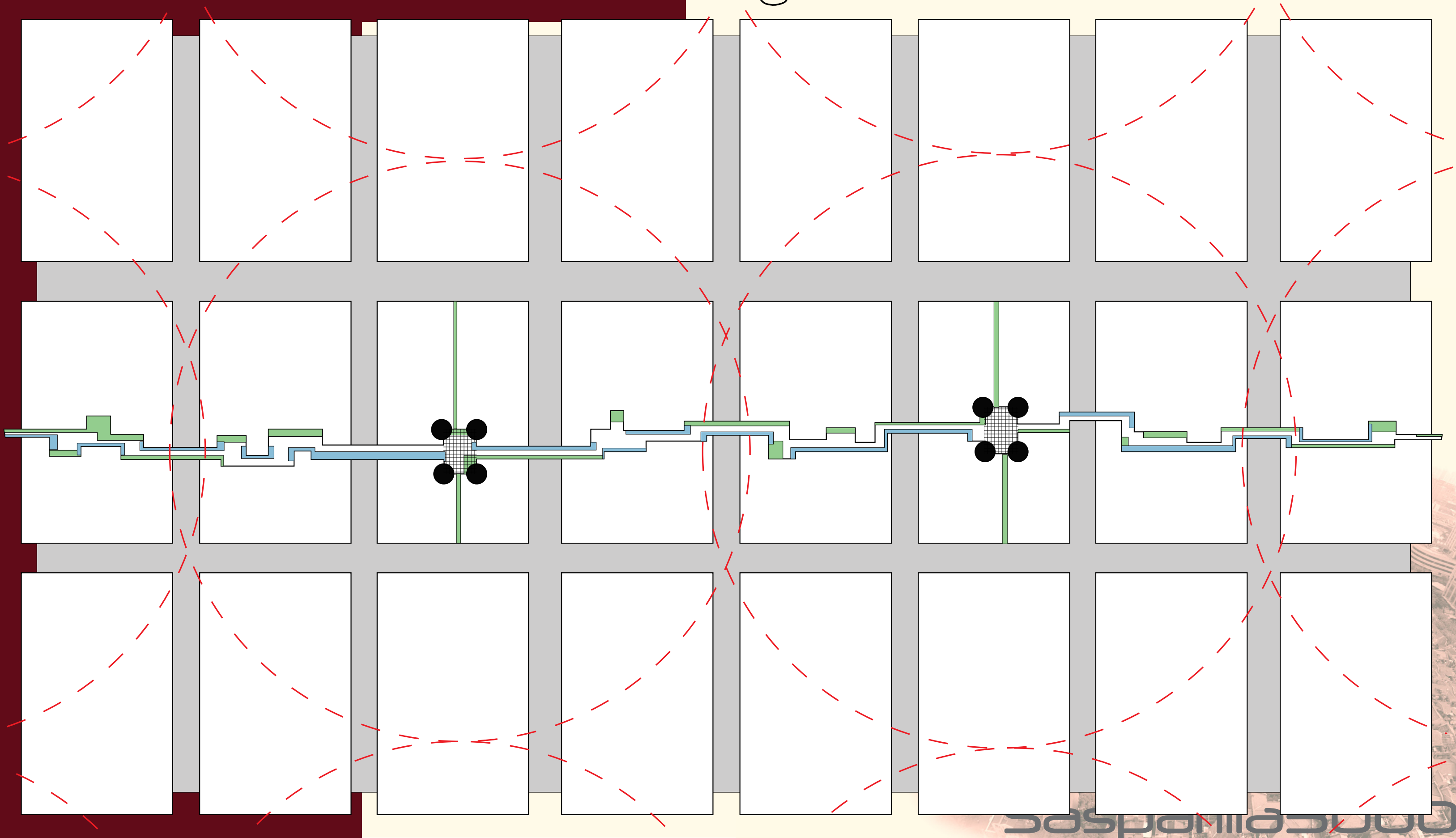
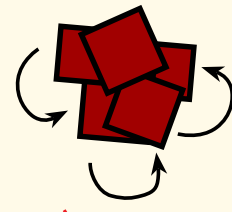




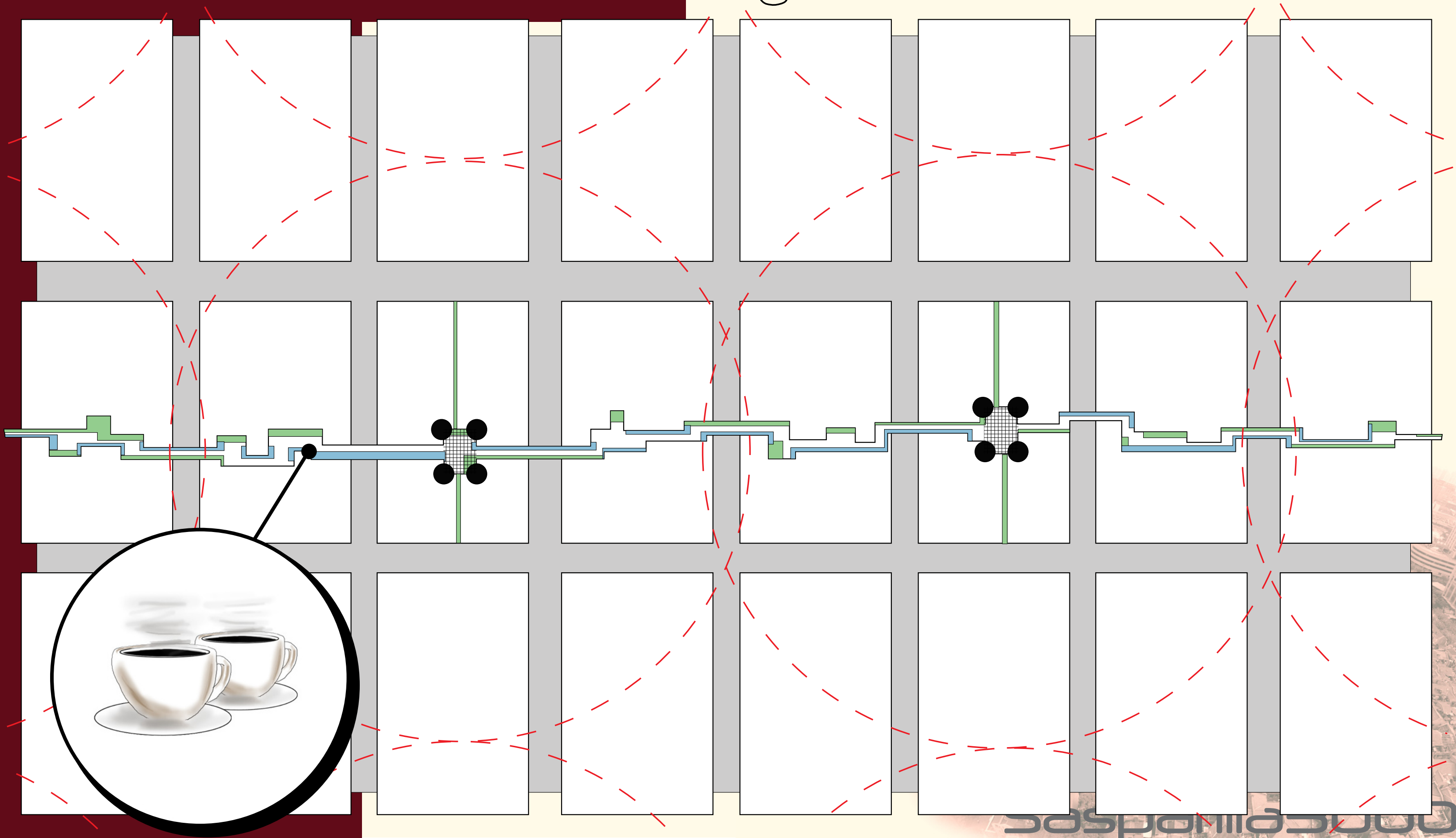
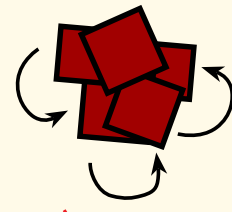
- **Channels**
- Create a framework of open space and new development
- Generates pedestrian and bicycle routes
- Supplies water to core and new infrastructure
- Traditionally relevant
- Increases value of surrounding land
- Functions as storm water runoff (instead of sewer overflow)



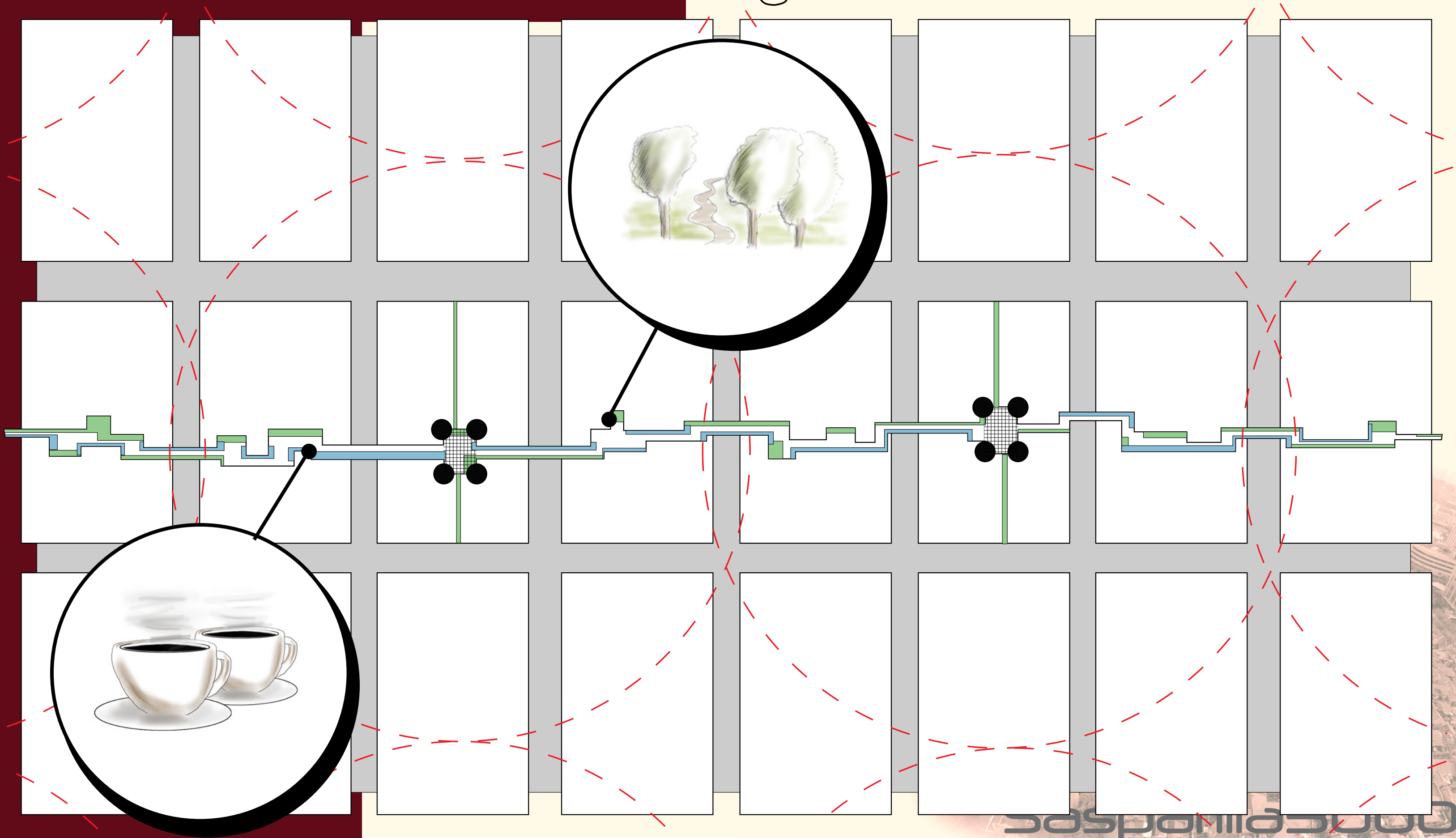
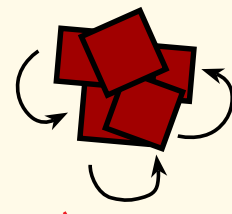
Master Plan



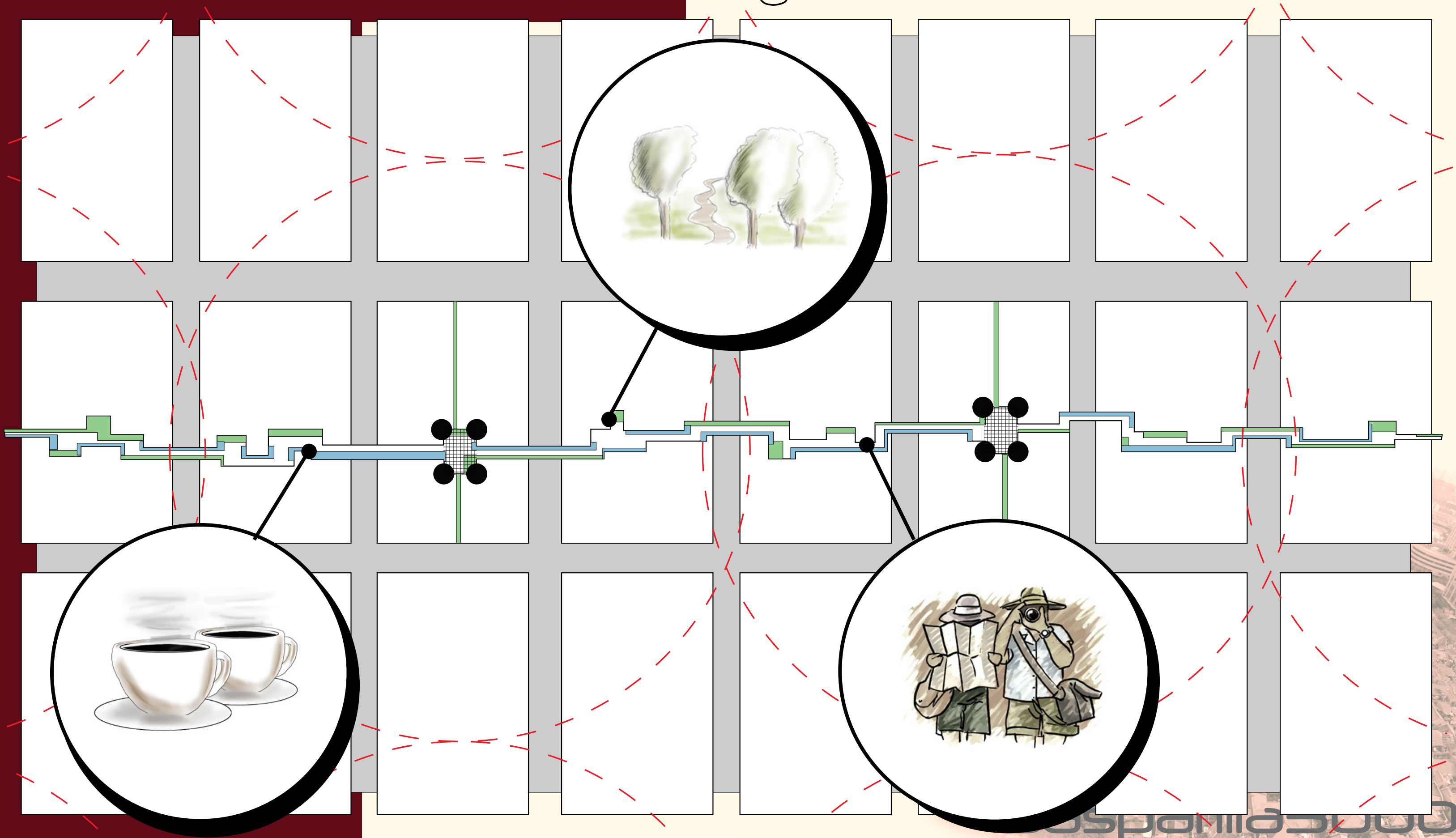
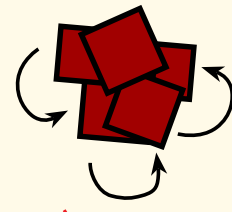
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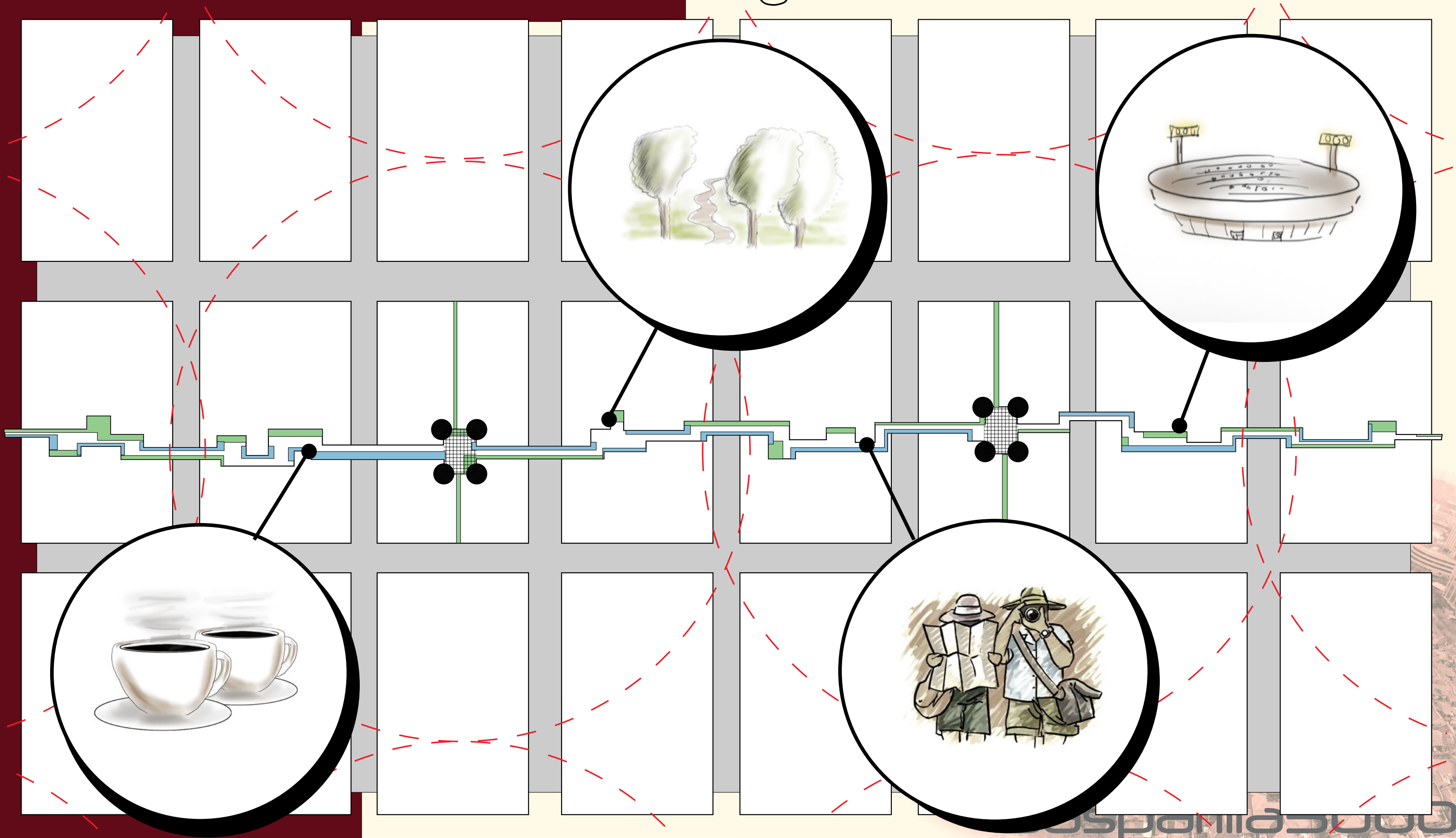
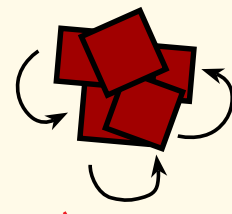
Master Plan



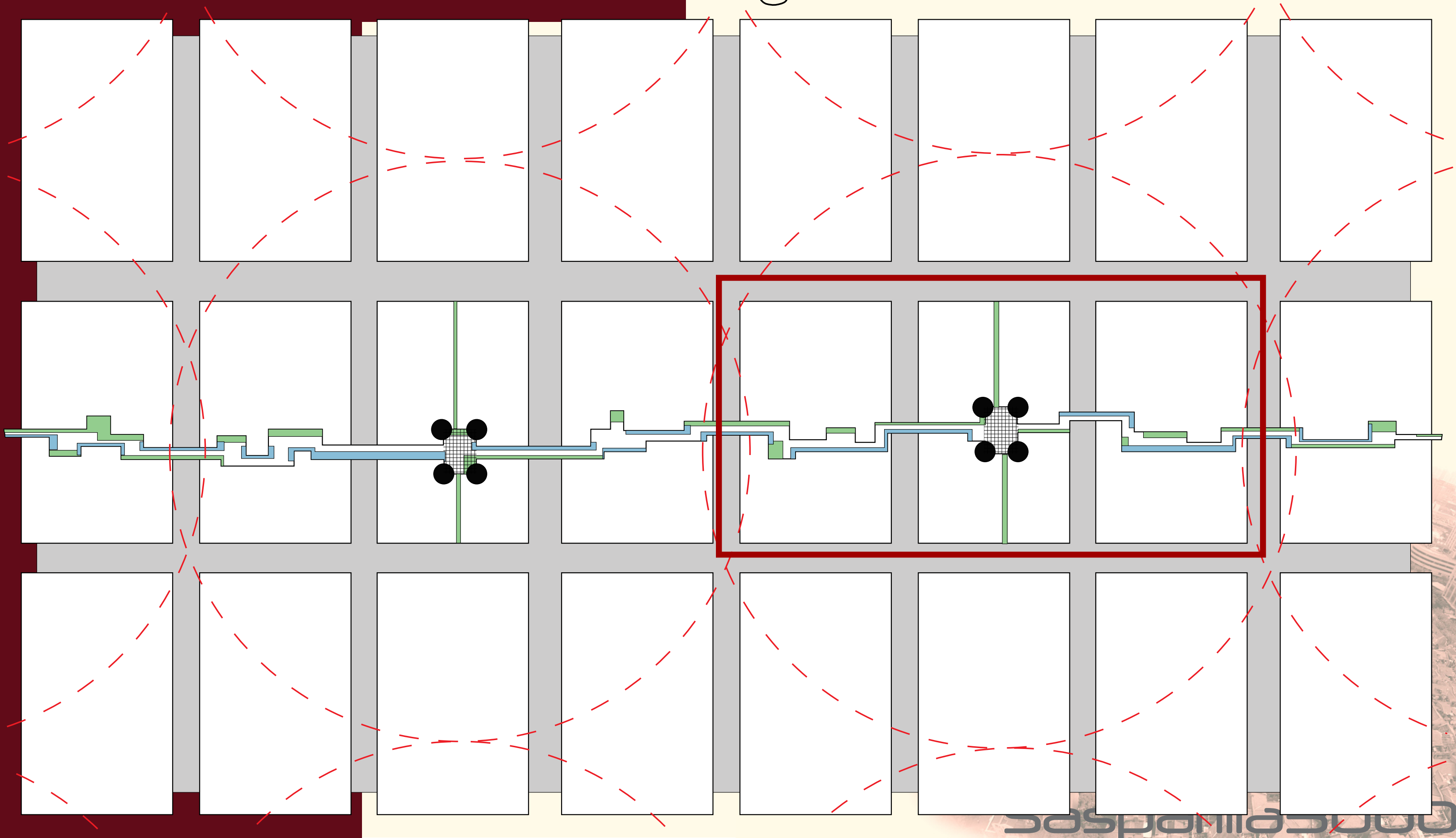
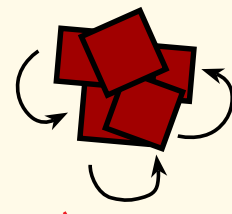
Master Plan

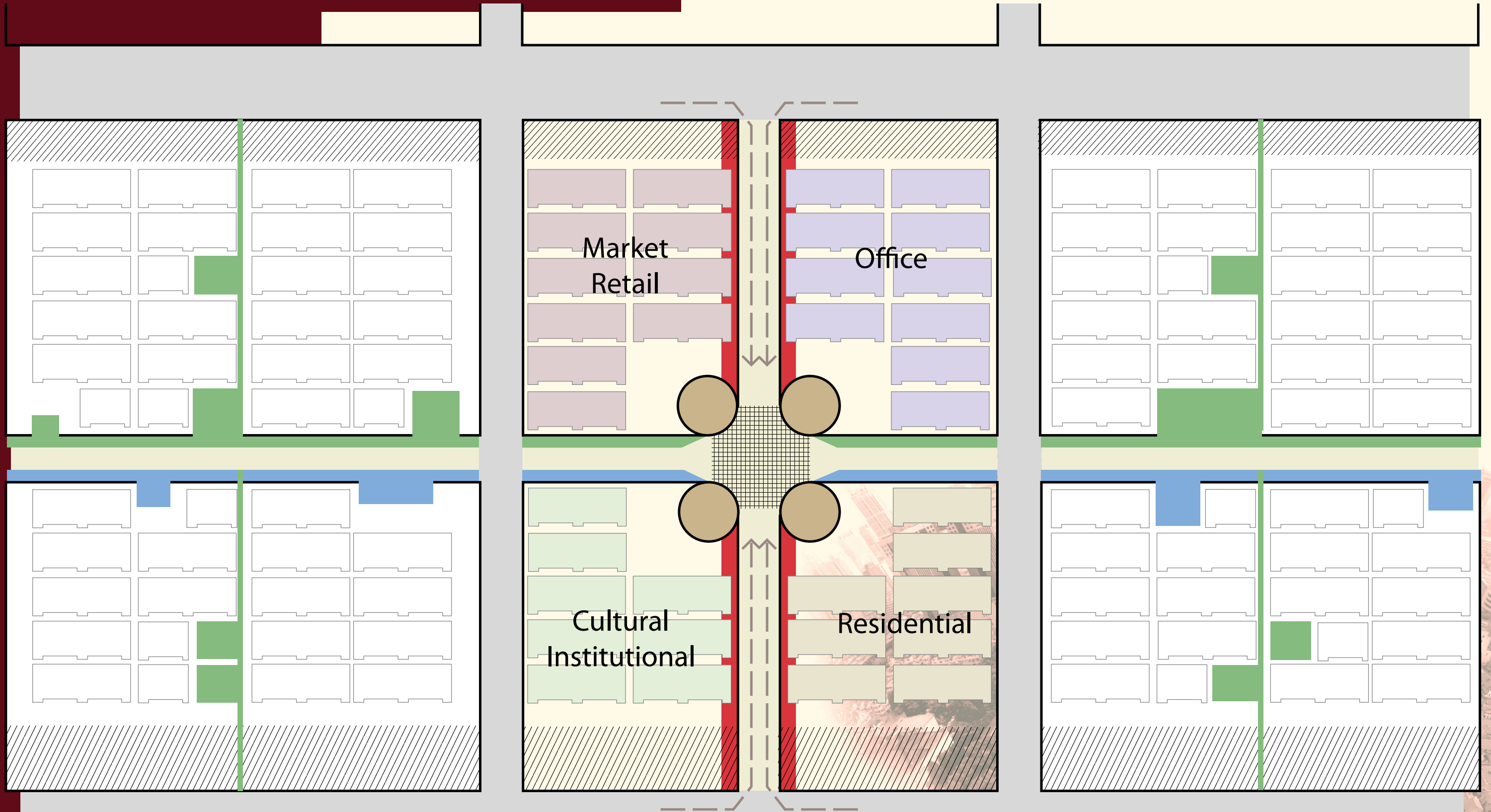


Master Plan

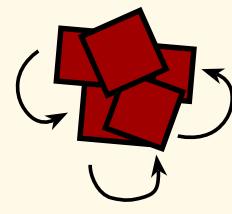


Master Plan





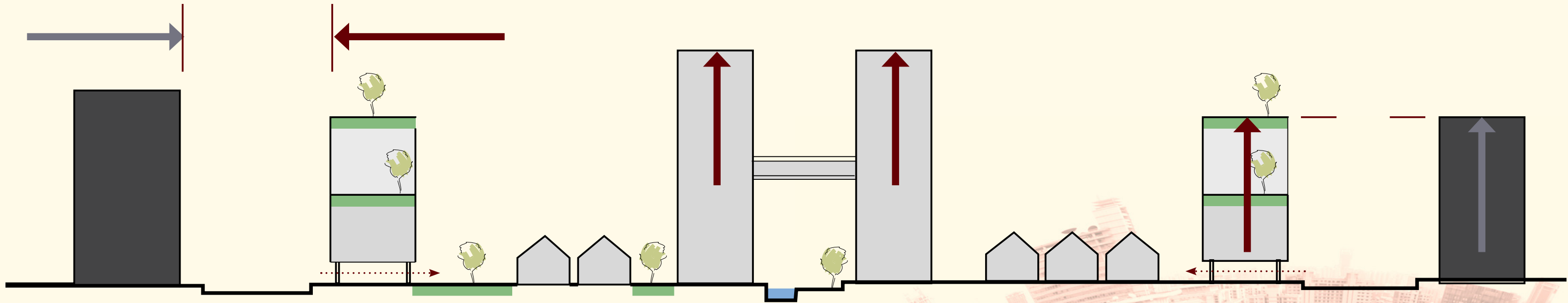
Master Plan



Compress & Density
Around Major Street

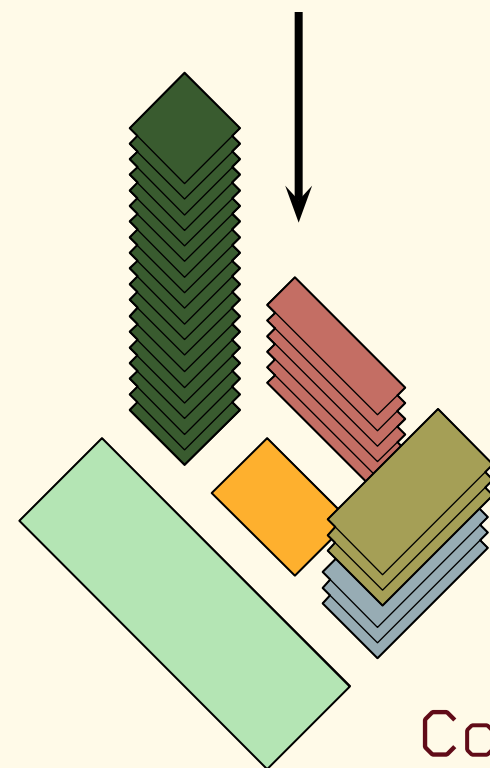
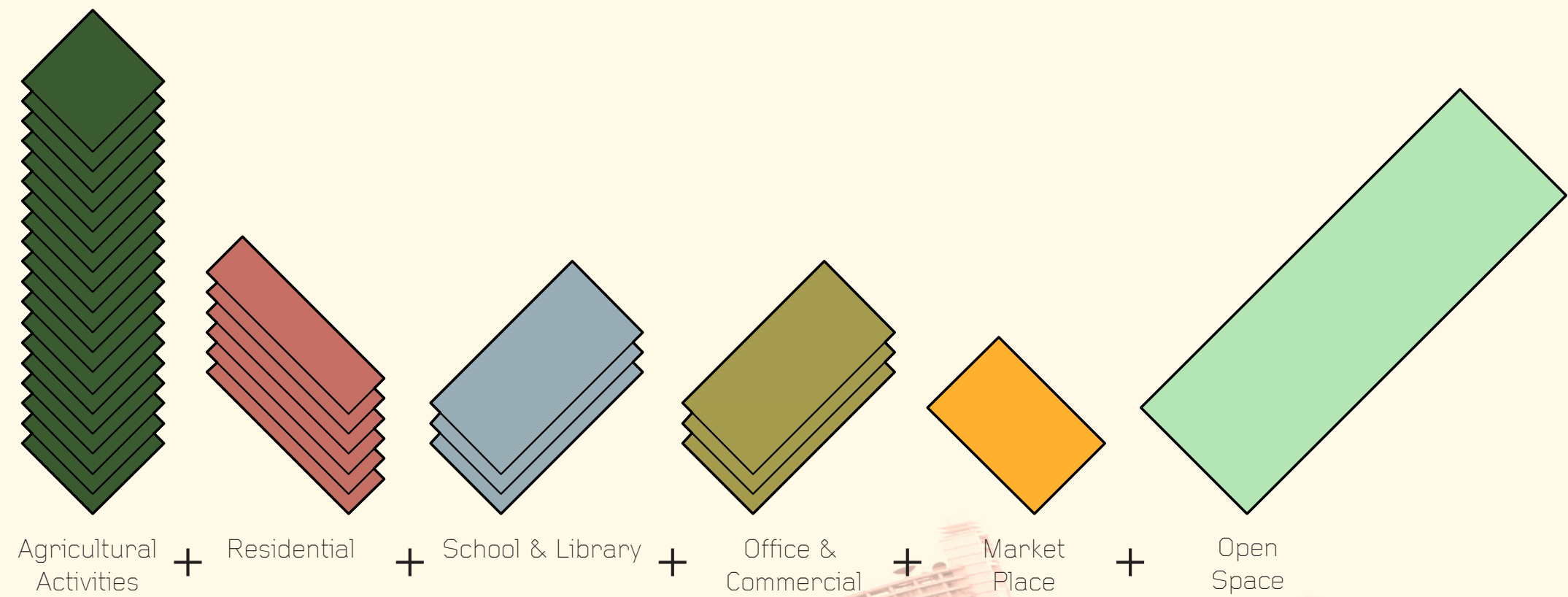
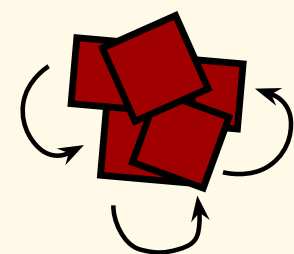
Densify Mid of Block

Compress & Density
Around Major Street



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Core



Core Development

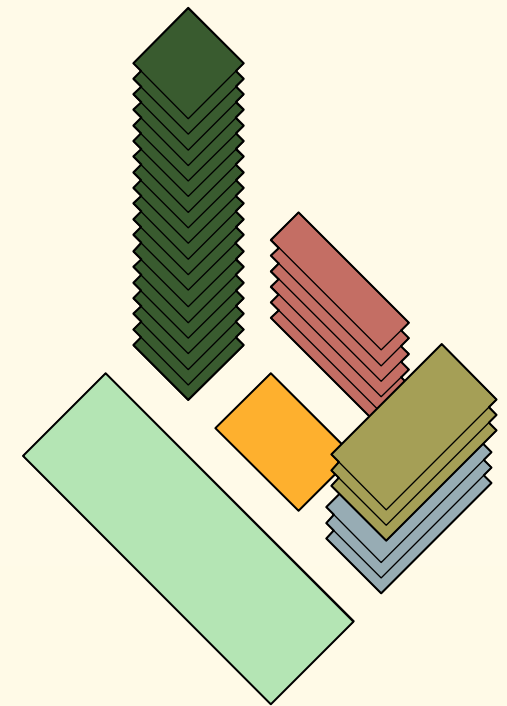
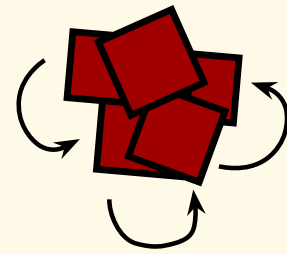
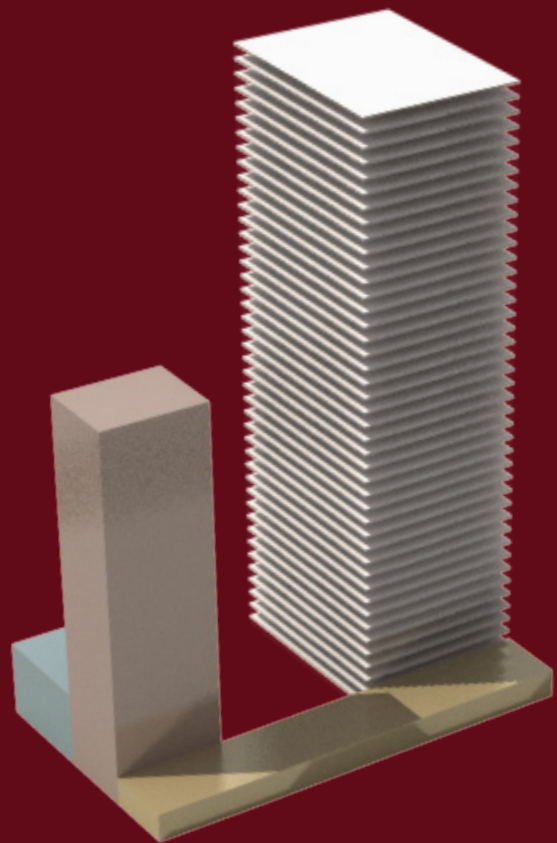


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Core

Urban Agriculture

- Sustenance for 50.000 People (60%)
- Strong Traffic Reduction in City
- Sewage & Waste Management
- Regulate city growth
- Stimulate local markets & distribution
- Employment & Education
- Open Space creation
- Visible Reconnection of Sustenance flows
- Enables Sustainable City Growth



Core Development

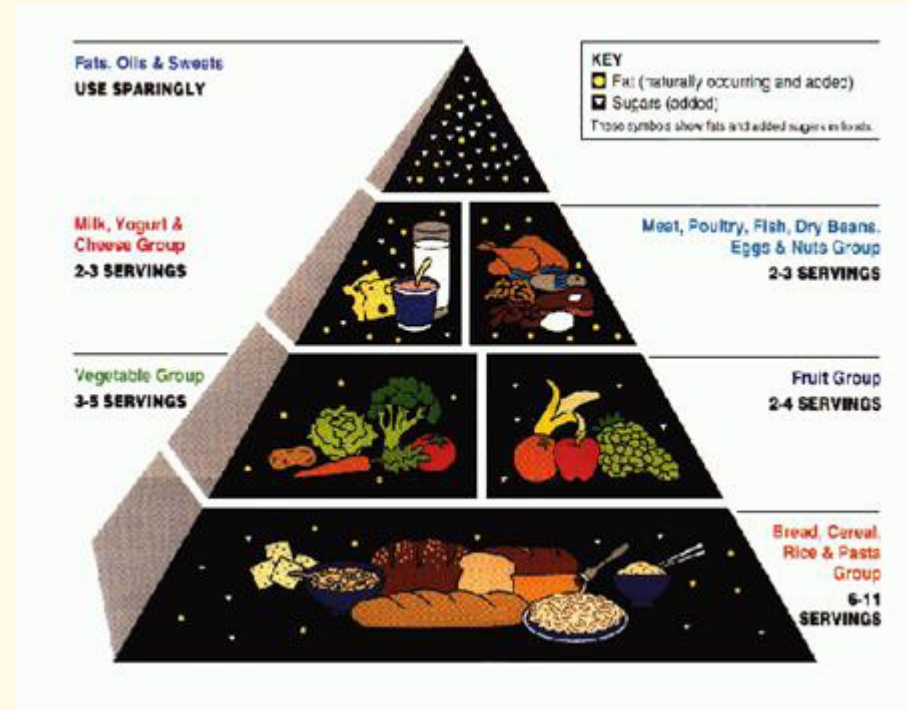
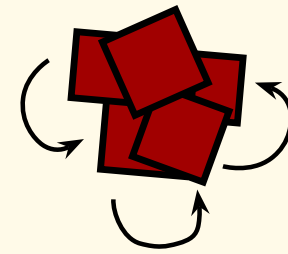


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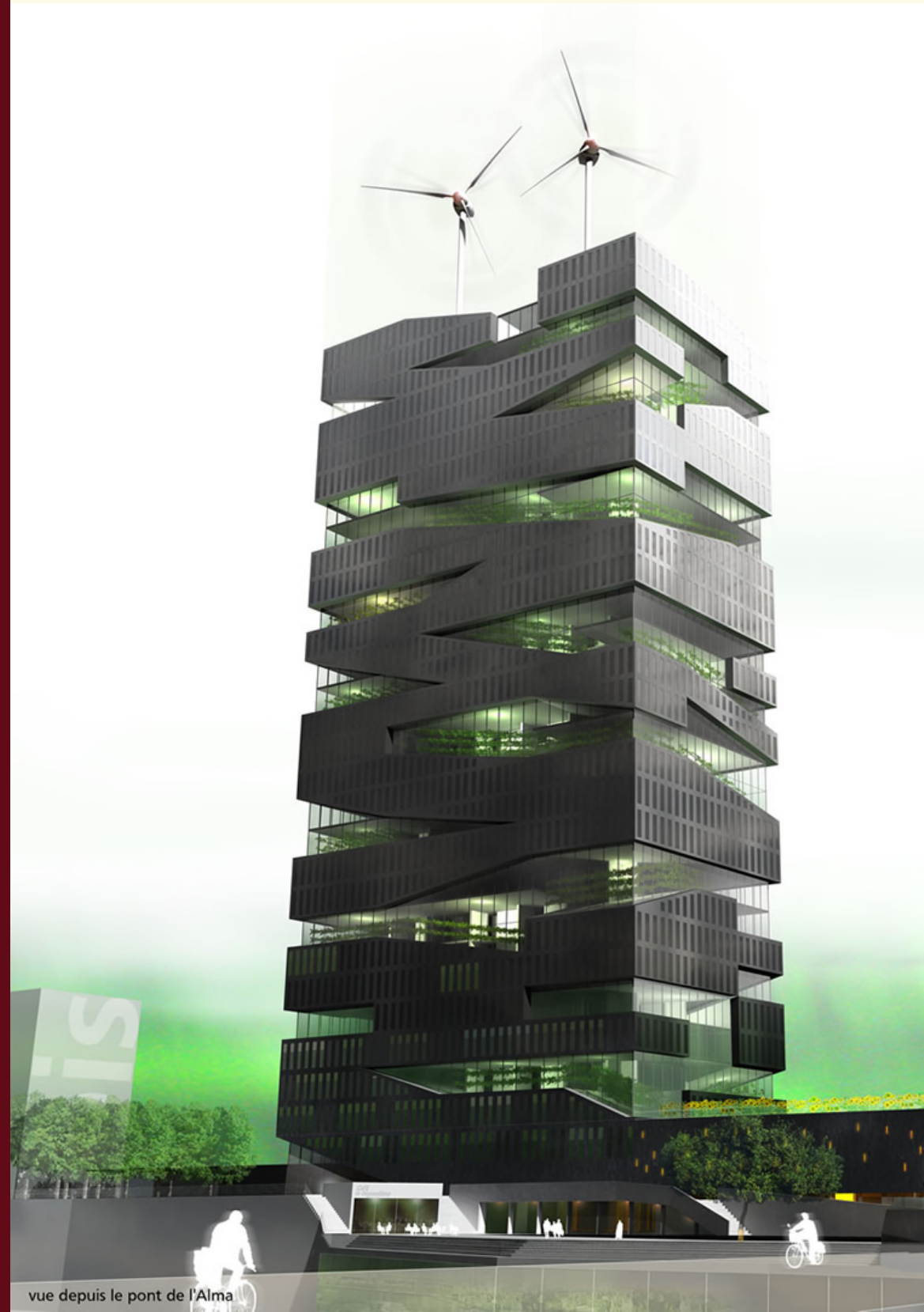
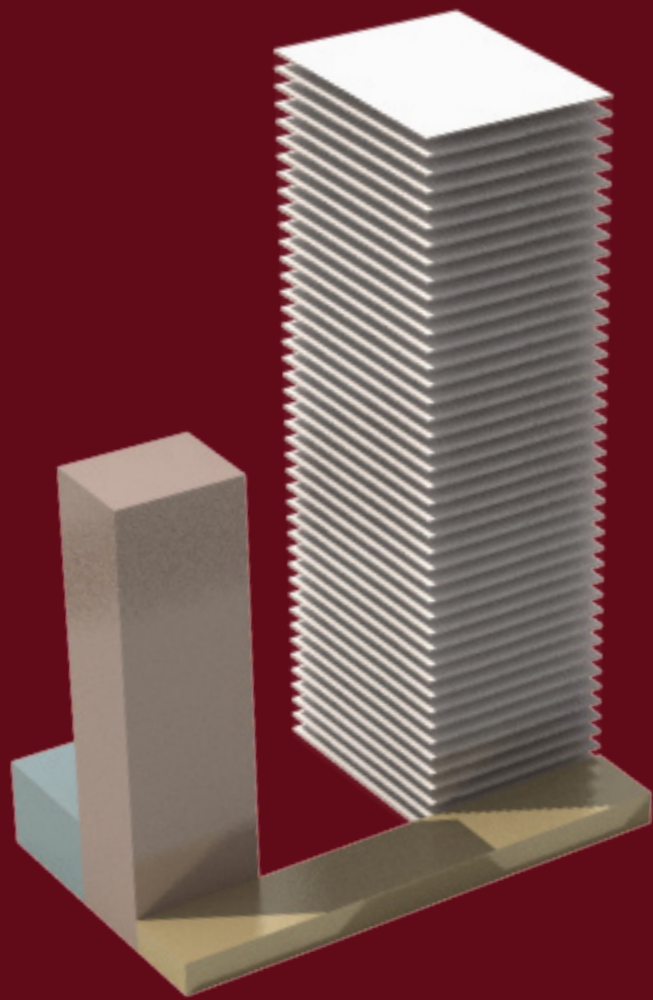
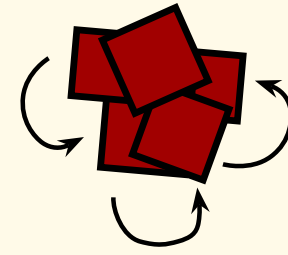
Hydroponics

5x as effective as traditional agriculture



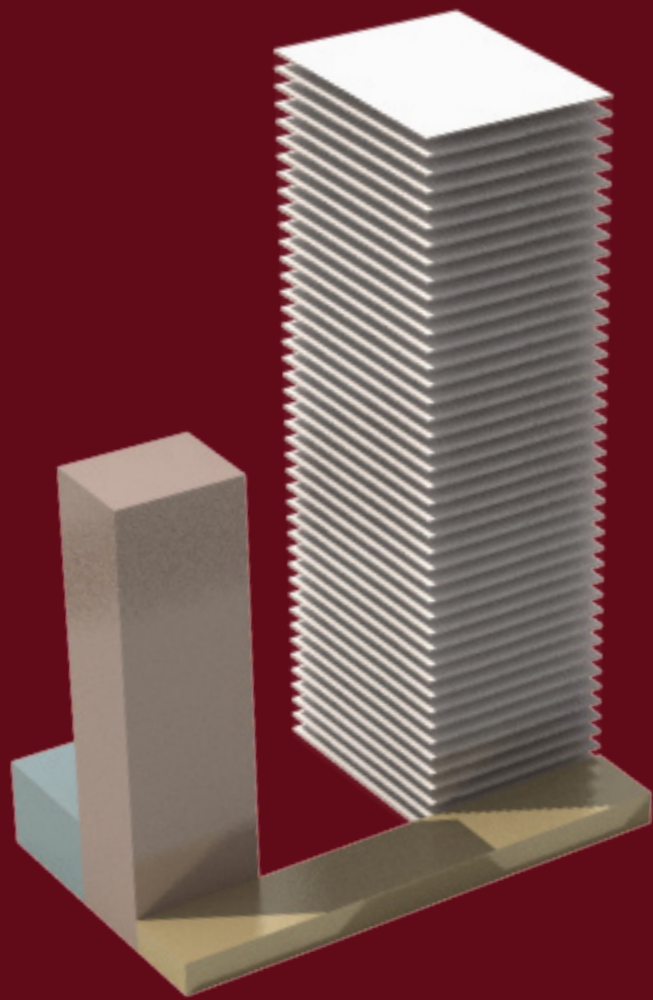
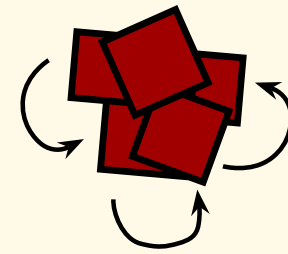
Core

Urban
Agriculture



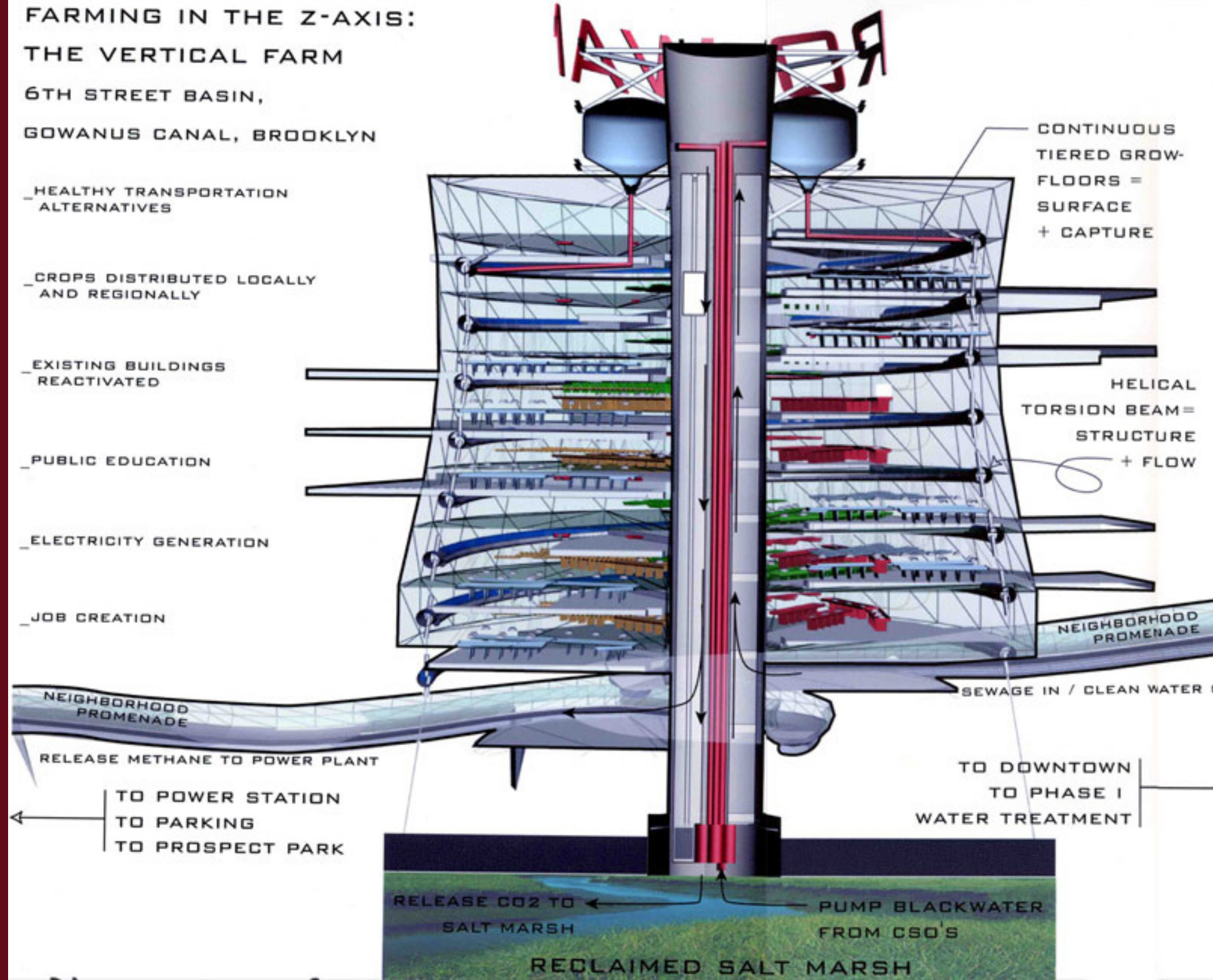
Core

Urban Agriculture



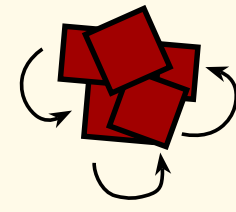
FARMING IN THE Z-AXIS: THE VERTICAL FARM 6TH STREET BASIN, GOWANUS CANAL, BROOKLYN

- HEALTHY TRANSPORTATION ALTERNATIVES
- CROPS DISTRIBUTED LOCALLY AND REGIONALLY
- EXISTING BUILDINGS REACTIVATED
- PUBLIC EDUCATION
- ELECTRICITY GENERATION
- JOB CREATION
- NEIGHBORHOOD PROMENADE
- RELEASE METHANE TO POWER PLANT
- TO POWER STATION
- TO PARKING
- TO PROSPECT PARK



- + PUBLIC SIGNAGE
- + STRUCTURAL MAST & HOLDING TANKS
- + BLACKWATER BIOGAS REACTOR
- + COMPOSTABLE PLANT PRODUCTION
- + EDIBLE CROP PRODUCTION: 24 HOUR/365 DAY HYDROPONIC GROWING
- + DECORATIVE PLANT PRODUCTION
- + PUBLIC INTERCHANGE PLATFORM
- + GREENMARKET/ PUBLIC ACCES TO SALT MARSH
- PUMPING STATION/ UNDERGROUND PARKING

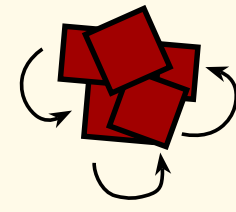
Local Plan



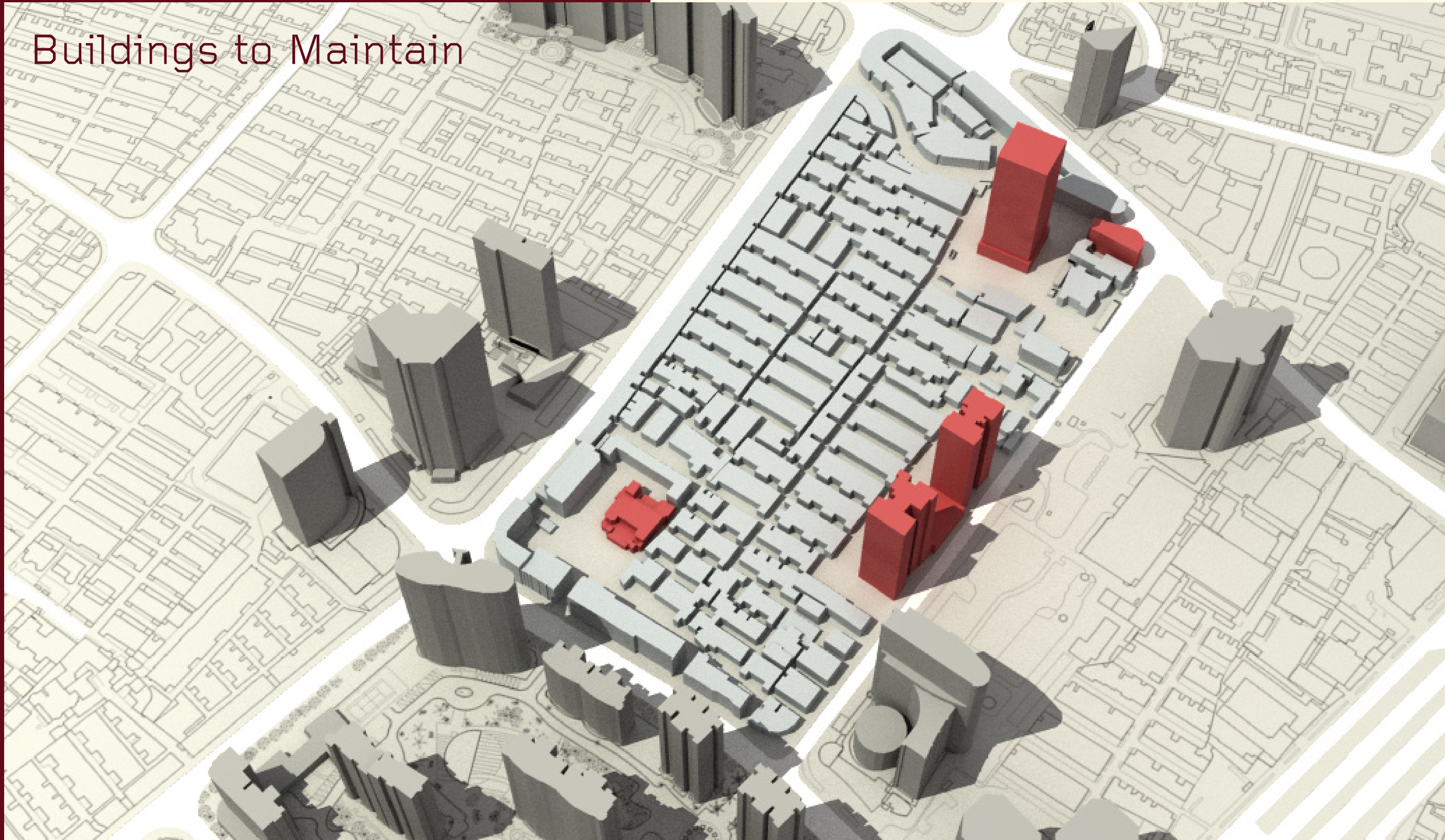
Current Situation



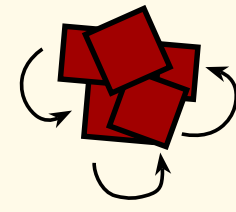
Local Plan



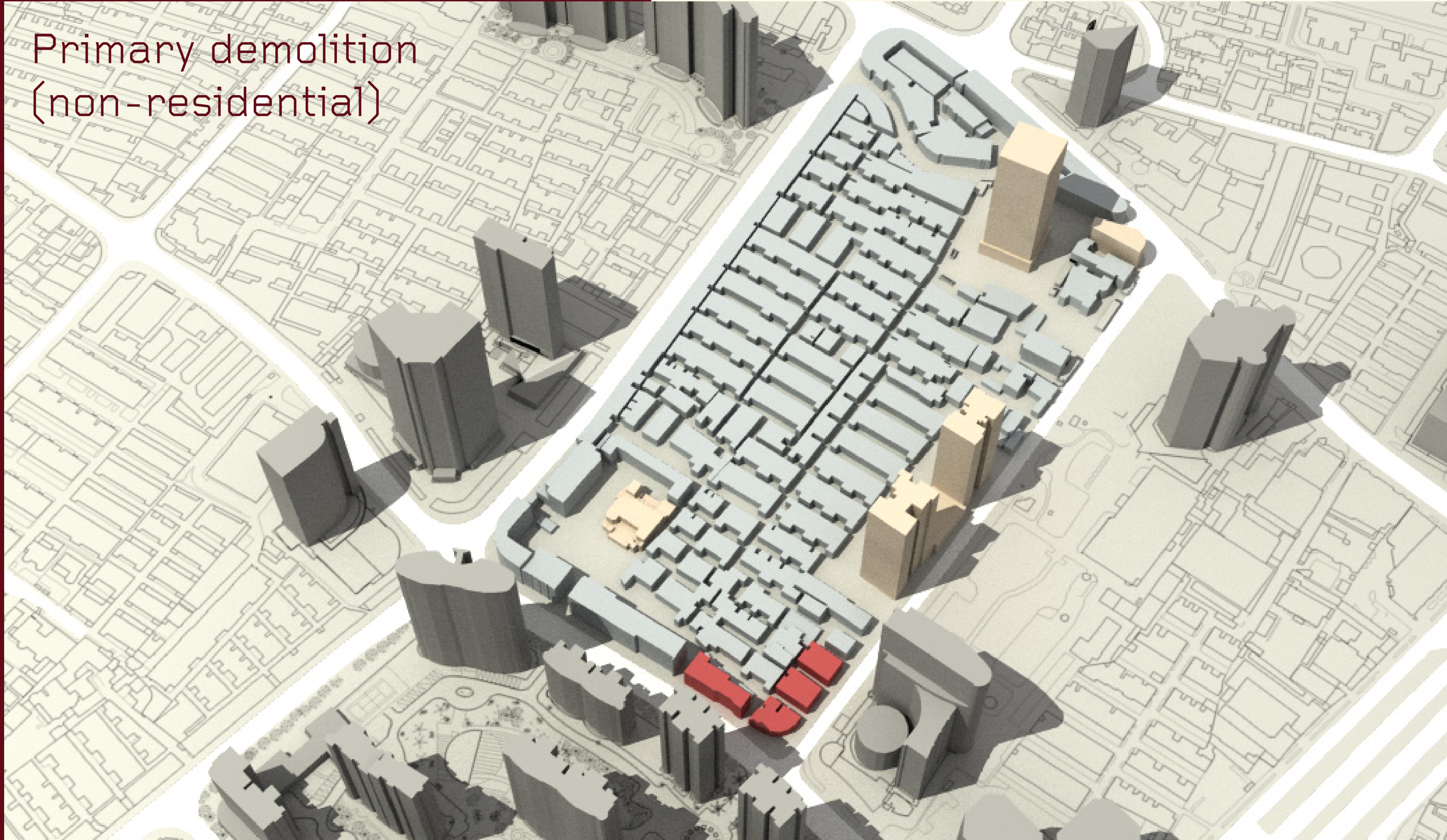
Buildings to Maintain



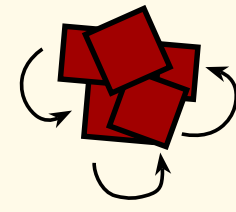
Local Plan



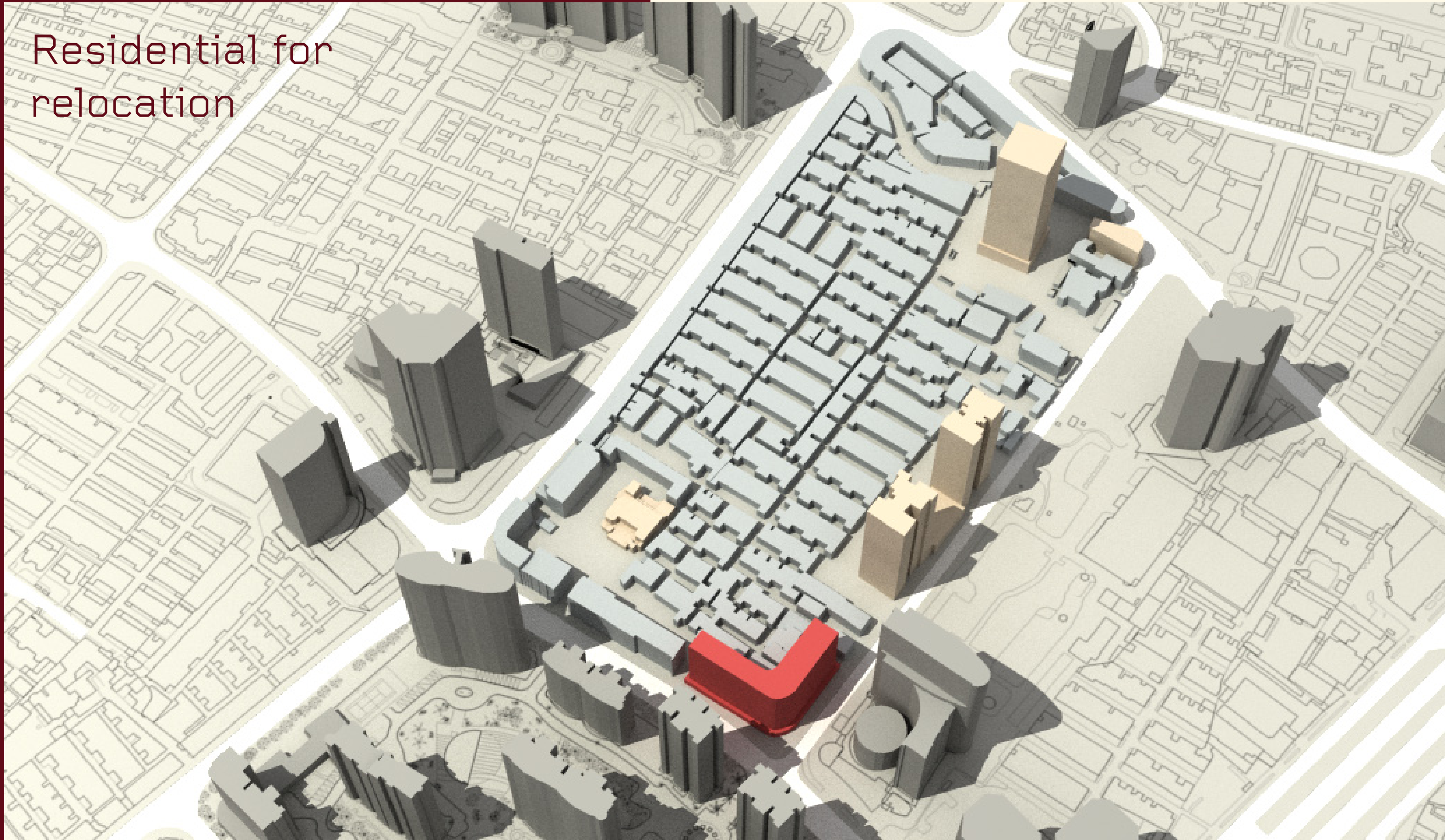
Primary demolition
(non-residential)



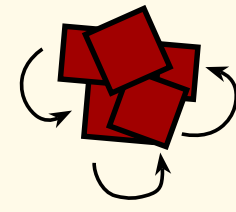
Local Plan



Residential for
relocation



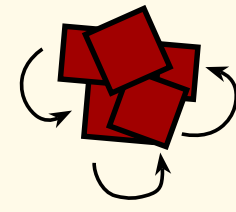
Local Plan



Selected for preservation



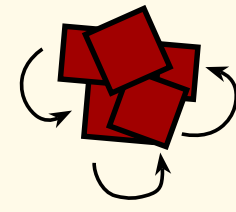
Local Plan



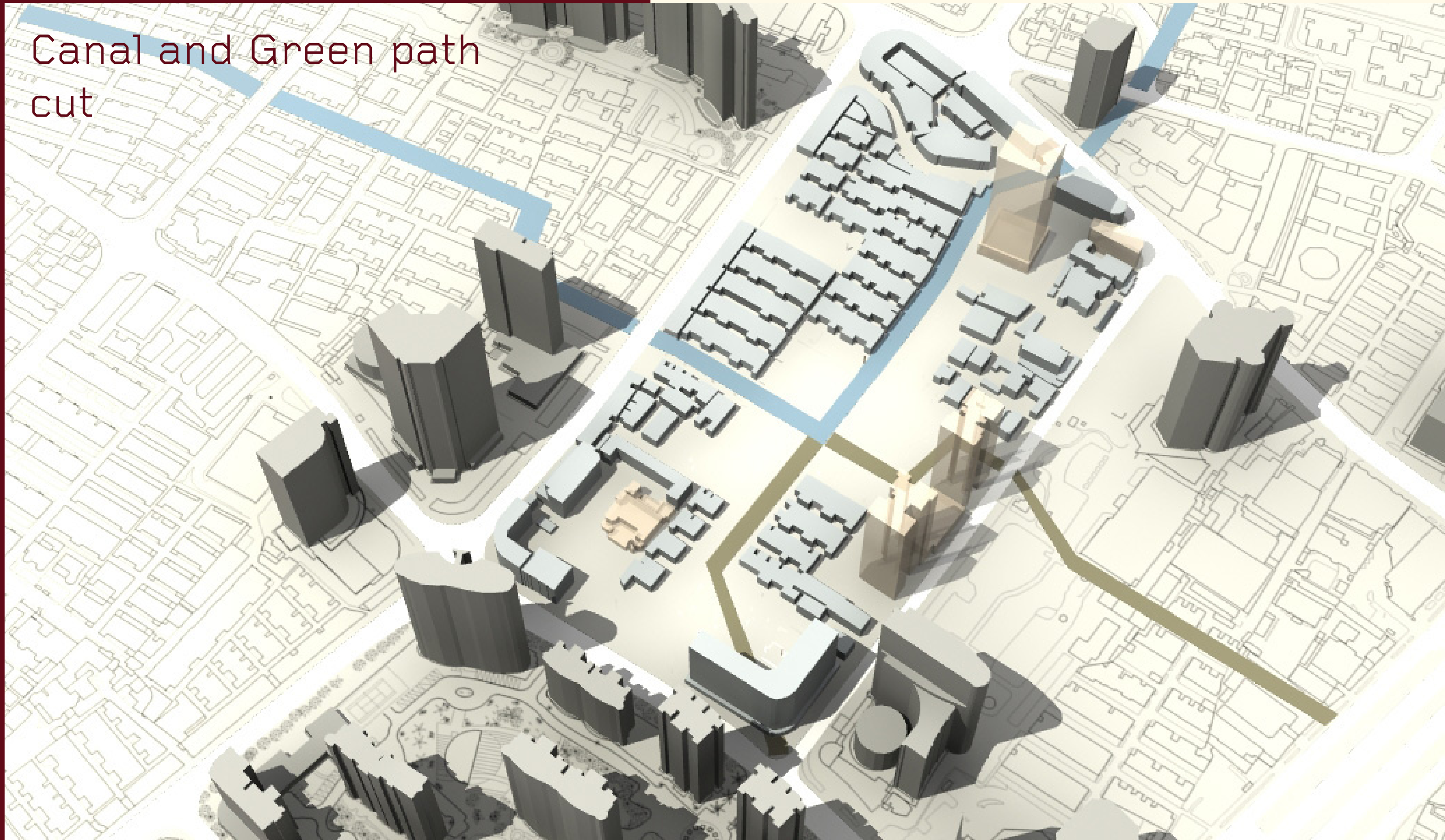
Construction clearing



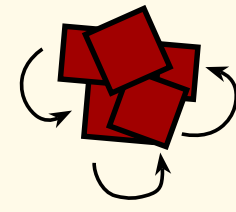
Local Plan



Canal and Green path
cut



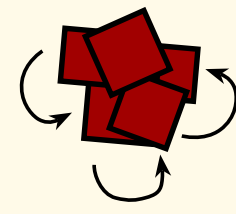
Local Plan



Implement Core



Local Plan



Offered to market

