

Composition [#2]

Thursday, April 19th, 2012

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Contents (of two lectures)

Thursday, April 12th, 2012

- 1. What does composition mean?
- 2. City's changes
- 3. Compositional concepts: a technical reading
- 4. References

Thursday, April 19th, 2012

- 5. Comparison and Achievements
- 6. New Towns designed in the East
- 7. References application: retrofitting spontaneous outcropping Cities
- 8. Retrofitting programs for insurgent outcropping Western Cities

Lecture references

- Gabellini P. (2001), Tecniche urbanistiche, Carocci, Roma.
- Di Giovanni A. (2010), *Spazi comuni. Progetto urbanistico e vita in pubblico nella città contemporanea*, Carocci, Roma.
- Kriken J.L. (2010), City Building. Nine Planning Principles for the Twenty-First Century, Princeton Architectural Press, New York.
- Keeton R. ed. (2011), Rising in the East, SUN, Amsterdam. Wol
- Wolfrum S. and Nerdinger W. eds. (2008), *Multiple City. Urban Concept 1908-2008*, Jovis, Berlin.
- Dunham-Jones E. and Williamson J. (2009), *Retrofitting suburbia. Urban design solutions for redesigning suburbs*, John Wiley & Sons, New York.
- Duany A., Plater-Zyberk E., Speck J. (2000), Suburban Nation. The Rise of Sprawl and the Decline of the American Dream, North Point Press, New York.

5. Comparison and Achievements

Some main agreed points

- 1.) **Ideal/standardized dimension** for the whole settlement and/or for some specific parts and/or for the specific urban elements.
- 2.) Usefulness and versatility of the **orthogonal grid**.
- 3.) **Soil subdivision** modalities into blocks and plots (different shapes and dimensions).
- 4.) **Functional definition** of settlement parts (specialization vs. multiple uses).
- 5.) Hierarchical organization of the street grid.
- 6.) Attention for **public transport system** and for its integration with the street grid.
- 7.) **Open space** overall extension and specific articulation often related to design and displacement of public facilities.

Facilities organization: concentration vs. diffusion

City Centre

Garden City: public facilities are placed in the **settlement centre** (main public facilities) and **along the Grand Avenue** (local facilities).

Ville Radieuse: main urban facilities are placed in the **administrative core** (the northern part) of the city, while social services and recreational spaces are arranged inside the blocks within the green **between buildings** (close to the houses).

Proximity

Cité Linéaire Industrielle: facilities are close to or inside huge residential buildings.

Ensanche de Barcelona: public facilities take **one or more modules** of the urban grid with defined frequency and distance related to their function. It is possible to recognize two principles: **hierarchy** and **proximity**.

Civic centre

Greater London Plan: within New Towns public facilities are placed into the neighbourhood core realizing a **civic centre**; schools are arranged freely **within wide green spaces**; sport and leisure facilities are placed **outside** the town.

Amsterdam Algemeen Uitbreidingsplaan: public buildings are grouped ad arranged in order to realize specific **civic centres**.

Broadacre City: facilities of different kind are placed within some **exceptional blocks** or **at the bottom of the highest towers**.

Density of population

Broadacre City: **5-7** inhabitants/hectare.

Ciudad Lineal: 10 units/hectare (measured value), considering 3-4 inhabitants/family (for single-family houses), the density would be approximately **30-40** inhabitants/hectare.

Garden City: **60** inhabitants/hectare referring to the urban core and **1** inhabitants/hectare within the agricultural belt.

Greater London Plan: **72-120** inhabitants/hectare is the range expected for the New Satellite Towns within the outer ring.

Amsterdam Algemeen Uitbreidingsplaan: considering the neighbourhood of Slotermeer (one of the largest) 11.000 houses are designed onto 260 hectares (for approximately 35.000 inhabitants in relation to the average size of households in that period – 3.37 members per family –) with an average density of 40 units/hectare approximately **135** inhabitants/hectare.

Ensanche de Barcelona: 250 inhabitants/hectare.

Cité Linéaire Industrielle: **50** inhabitants/hectare in the case of isolated houses on a plot (garden city model) or **400** inhabitants/hectare in the case of the Unitè d'abitation (a kind of vertical garden city).

Großstadt: **715** inhabitants/hectare.

Ville Radieuse: **1.000** inhabitants/hectare.

Built area (in relation to the surface of the whole settlement)

Großstadt: the coverage ratio is approximately **1/1** (the built space substantially coincides with the block's surface).

Cité Industrielle: the built space can't exceed 50% of the whole urban surface.

Ensanche de Barcelona: the built space can be at maximum **1/3** of the area of each block.

Ciudad Lineal: the surface covered by the building is at maximum **1/5** of the entire plot surface.

Ville Radieuse: the coverage ratio is **12**% (only 1/8 of the urban surface is built).

Dimensions and characteristics of blocks and plots

- Cité Industrielle: the blocks are standardized and their dimension are **30x150** meters (4.500 square meters), the plot dimension can vary according to the basic module of **15x15** meters (225 square meters).
- Ensanche de Barcelona: the block dimension don't varies and it is **113x113** meters (12.370 square meters).
- Ciudad Lineal: the block is rectangular in shape and its dimension is **80-100x200** meters (16-20.000 square meters): the plot standard module is **20x20** meters (400 square meters).
- *Garden City*: blocks are sector (with variable size) of a circular ring; within different blocks the recurrent dimension of plots is **6x30/40** meters (180-240 square meters).
- Greater London Plan: blocks are irregular in shape and sizes.
- Amsterdam Algemeen Uitbreidingsplaan: block dimension can vary according to a defined **ratio for sides length (2:1)**.
- *Großstadt*: the blocks are rectangular and narrow and the dimension is **100x600** meters (60.000 square meters).
- *Ville Radieuse*: the block is square and the defined dimension is **400x400** meters (160.000 square meters); within the blocks there are no plots.
- Broadacre City: the minimum plot size is **one acre** (about 4.000 square meters).

Cité Linéaire Industrielle: there are neither blocks nor plots.

Building typologies: low, medium, tall houses

Ciudad Lineal: single-family houses on a plot (urban villas).

Garden City: single-family houses on a plot and terraced houses (cottage).

Greater London Plan: single-family houses and terraced houses spread within open green spaces and sometimes low bar buildings surrounding the civic centre.

Broadacre City: **single-family houses** on a plot (sometimes grouped) and multifunctional **towers** of 15-20 storeys.

Cité Industrielle: urban villas of one or two floors and collective houses (city centre).

Ensanche de Barcelona: **collective buildings** of maximum 4 storeys (the height is 16 m) arranged along the perimeter of the blocks (open block).

Amsterdam Algemeen Uitbreidingsplaan: isolated **bar buildings** of 2, 4, 8 storey at maximum within open blocks and 12 storeys **towers**.

Cité Linéaire Industrielle: a new building typology (a huge collective building named "Unité d'Habitatiòn") is conceived like a "tool for living".

Ville Radieuse: the new building typology provided is the **"Redents"** (a huge bar buildings of 11 floors with 90° bends placed on stilts).

Großstadt: 20 storey **complex buildings** made of two building types overlapped (block building for offices at the bottom and tall residential bar buildings on the top).

Rules for blocks and plots layout (building and open space displacement)

- Ensanche de Barcelona: at least **one side of the block is not built** in order to guarantee light and air penetration.
- Ciudad Lineal: buildings are set **5 mt rearward** from the road and placed in the middle of the plot.

Broadacre City: **free displacement** within huge plots.

- *Großstadt*: buildings are **oriented along the road network** and both buildings and road network are oriented **according to the best sunlight exposure**.
- *Cité Industrielle*: buildings are **oriented along the road network** and both buildings and road network are oriented according to the **best sunlight exposure**.
- Amsterdam Algemeen Uitbreidingsplaan: buildings are **oriented according to the best sunlight and wind exposure** (together with the road network) and placed in any case on the **blocks edges**.
- Greater London Plan: buildings are set rearward from the road (realizing semi-public spaces), bar buildings are oriented according to the best sunlight and wind exposure.
- Cité Linéaire Industrielle: building are placed within a huge green collective open space ("death of the road") and faced according to the best exposure.
- Ville Radieuse: buildings ("Redents") are laid out within huge blocks in an **orthogonal** way (defining building depth according to sunlight and wind exposure).

Public and private open space

Broadacre City: open spaces are mainly private and set-out within huge residential plots.

- Amsterdam Algemeen Uitbreidingsplaan: there are **no private open spaces**; public spaces are set-out **within the blocks**, or close to **civic centres**.
- *Cité Linéaire Industrielle*: public open green spaces are **widespread** and suitable for several collective uses; there are **no private open spaces**.
- *Ville Radieuse*: public open green spaces are widespread within huge blocks and **between the Redents**; here there are **no private open spaces**.
- *Großstadt*: public open spaces coincides with **street** spaces, here there are **no private open spaces**.
- Ensanche de Barcelona: open spaces for public uses are placed along the **roads** and at **crossroads**, and in **the middle of open residential blocks**.
- Ciudad Lineal: public spaces are along the **road**; wide open spaces within the blocks are completely private.
- *Garden City*: **public and private green open spaces spread** within the whole city. They constitute the **green "heart"** of the city centre. A huge **green-belt** surround the settlement (it limits the growth and preserve the countryside).
- Greater London Plan: in the civic centre several public buildings (with porches are arranged along the perimeter) shape several paved public spaces; plazas and pedestrian pathways are integrated with a huge public park system and with spread green spaces within residential blocks (producing a great continuity of public spaces).

Achievements for contemporary project (from great references of the past)

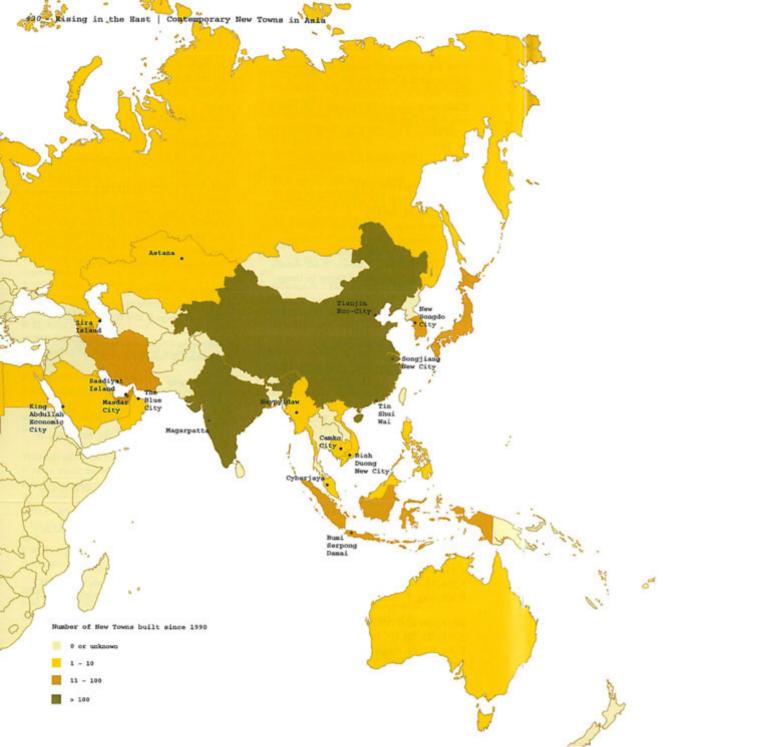
- 1. Prevent the **abnormal growth** of original settlements in all directions.
- 2. Define a specific **rule for settlement increasing** and/or for parts reorganization.
- 3. Identify and organize specific relationships between urban parts.
- 4. Give value to public space.
- 5. Take into account **urban uses** (and practices) and their compatibility.
- 6. Consider geographical, morphological and climatic **characteristics of the area**, paying attention to the existing presences.

Nine Planning Principles for the Twenty-First Century

Kriken J.L. (2010), City Building. Nine Planning Principles for the Twenty-First Century, Princeton Architectural Press, New York.

- 1. Sustainability. Committing to an environmental ethic
- 2. Accessibility. Facilitating ease of movement
- 3. Diversity. Maintaining variety and choices
- 4. Open spaces. Regenerating natural systems to make cities green
- 5. Compatibility. Maintaining harmony and balance
- 6. Incentives. Renewing declining cities/Rebuilding brownfields
- 7. Adaptability. Facilitating "wholeness" and positive change
- 8. Density. Designing compact cities with appropriate transit
- 9. Identity. Creating/preserving a unique and memorable sense of place

6. New Town Designed in the East





Masdar City (United Arab Emirates)

Client: Masdar-Abu Dhabi Future Energy Company (ADFEC),

Mubadala Development Company.

Designers: Fosters & Partners (master plan) with others.

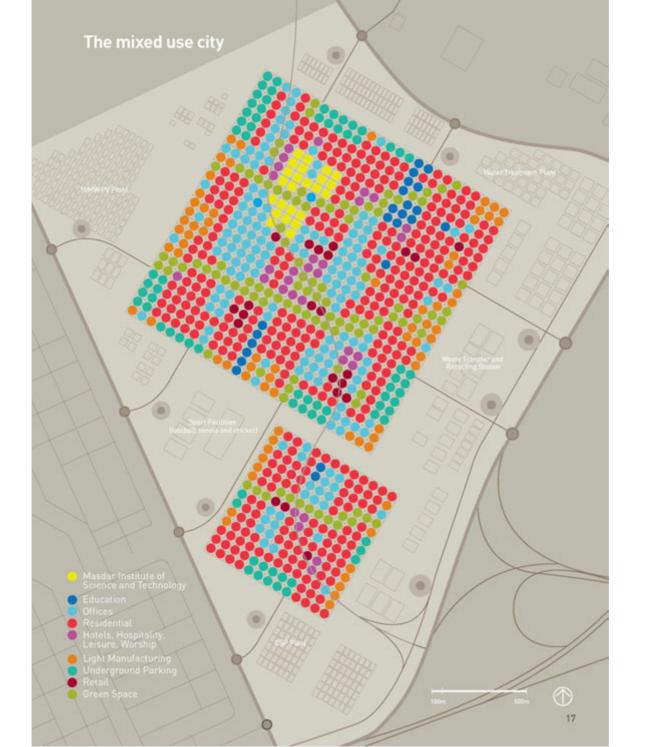
Date: 2006-2020.

Status: Under construction.

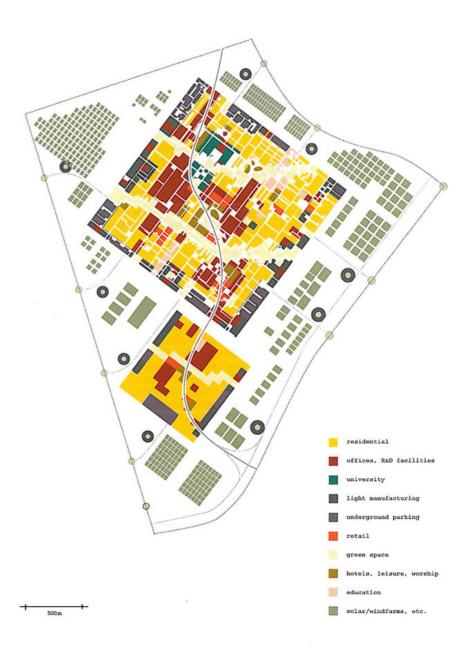
Expected residents: 40.000.

Expected commuters: 50.000 daily.



















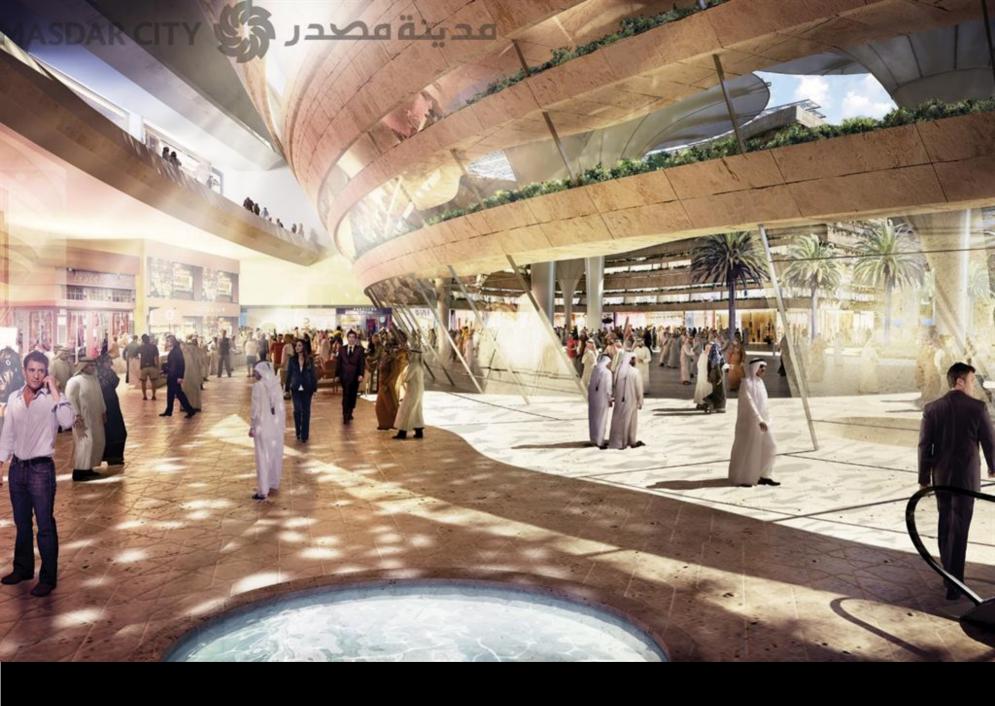












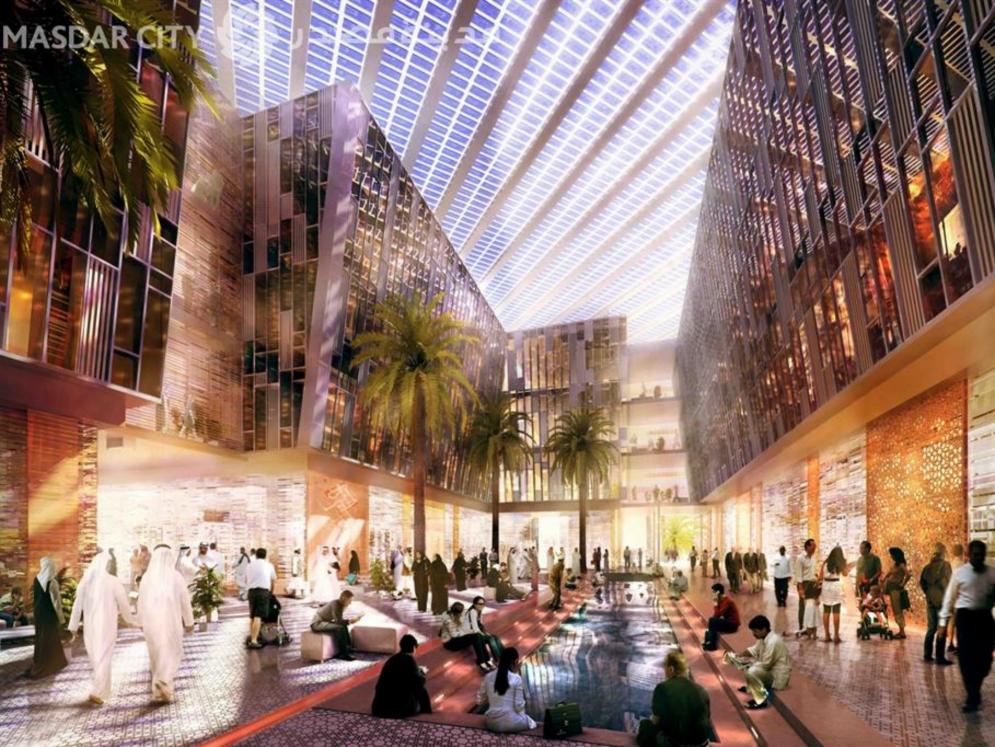


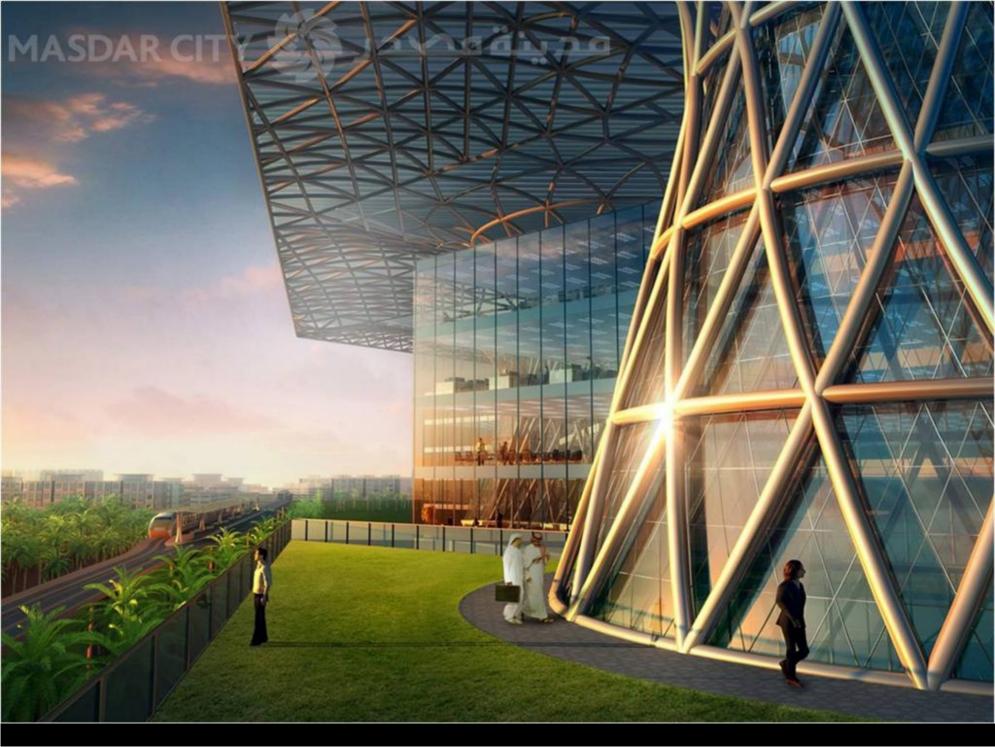


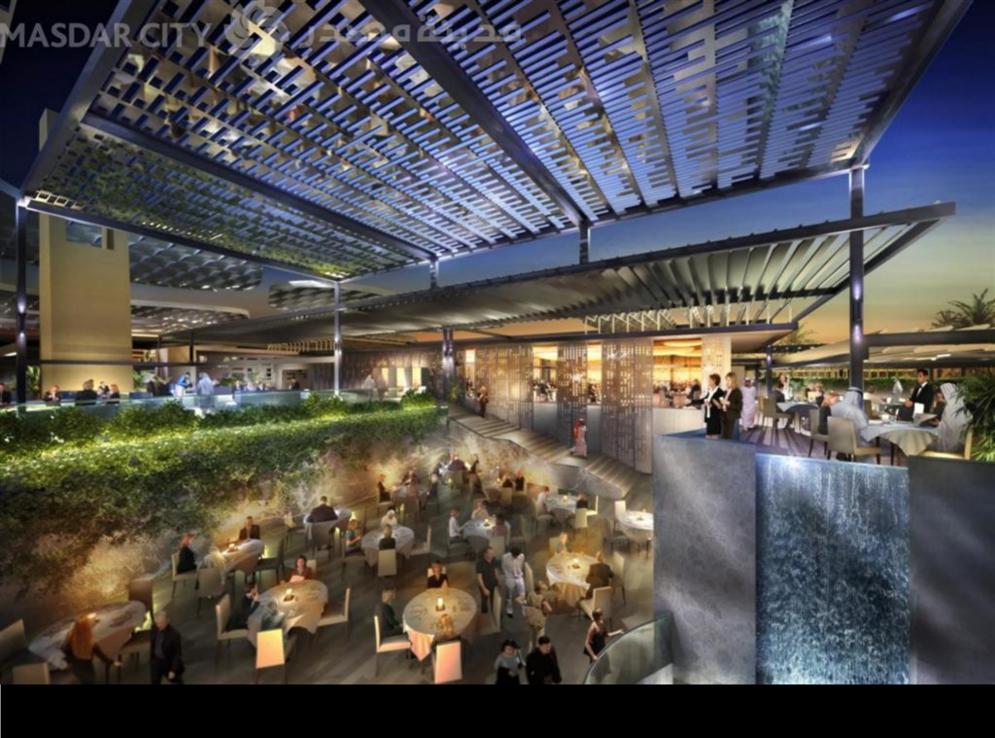


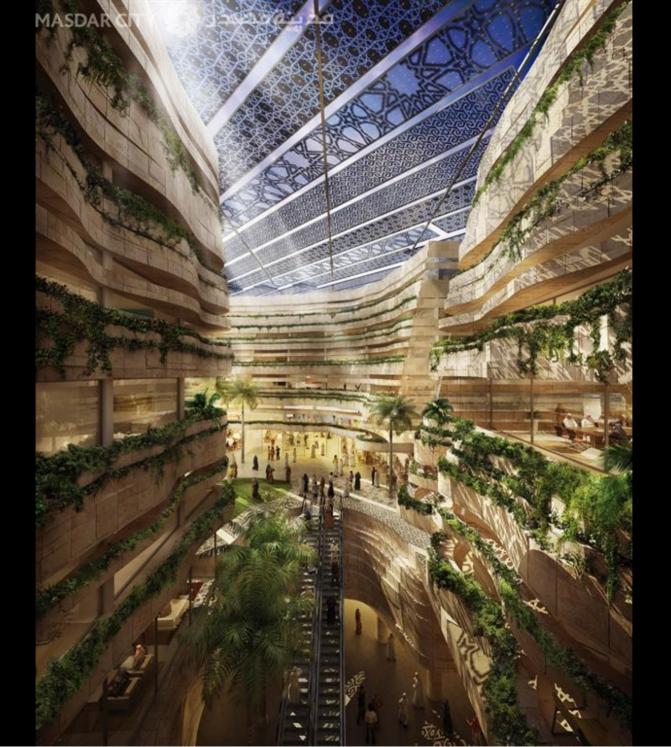












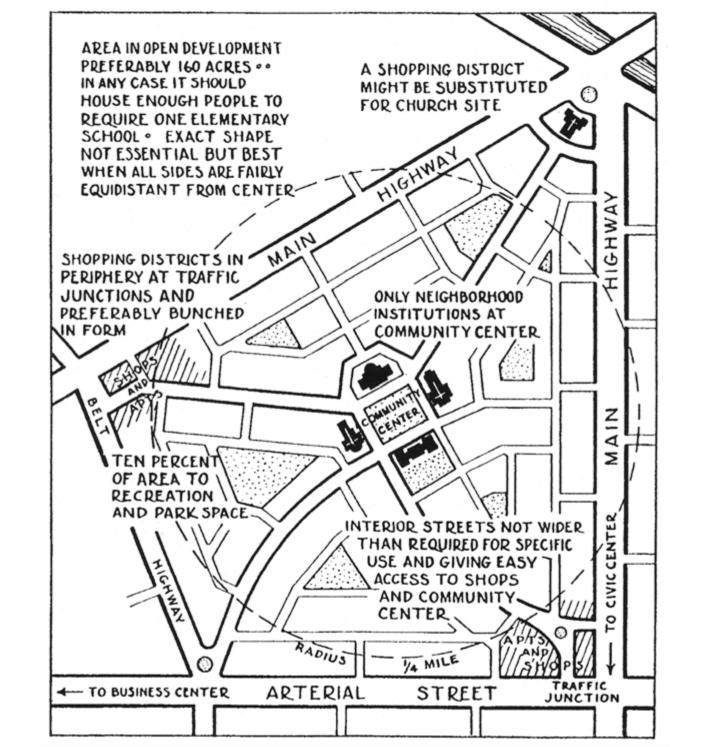












Saadiyat (United Arab Emirates)

Designers: Gensler with Buro Happold (masterplan).

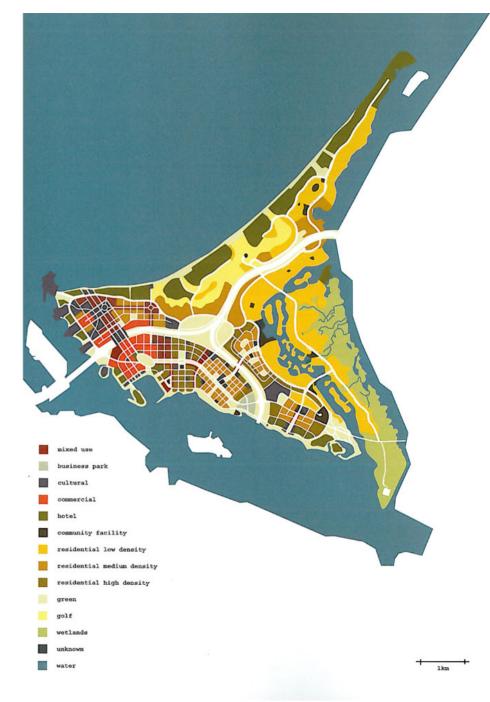
Date: 2004-2020.

Status: Under construction.

Expected residents: 160.000.

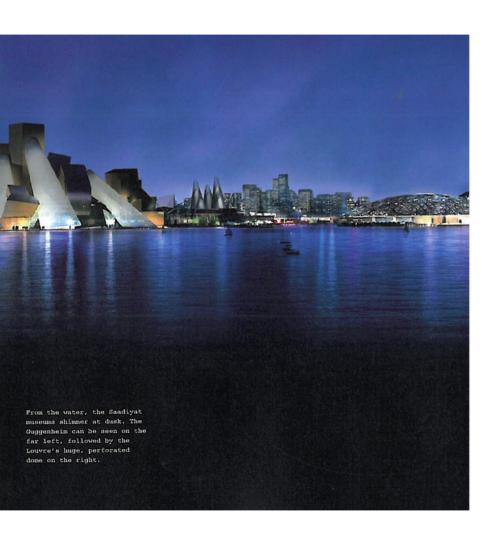
Cost: \$ 27 billion.

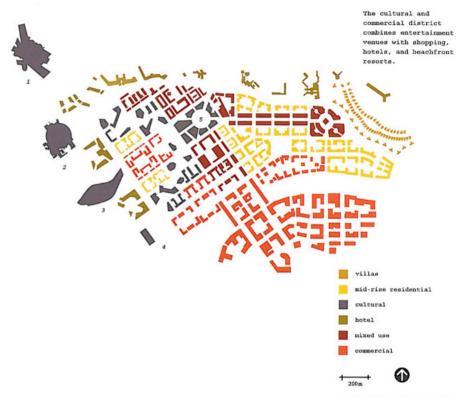




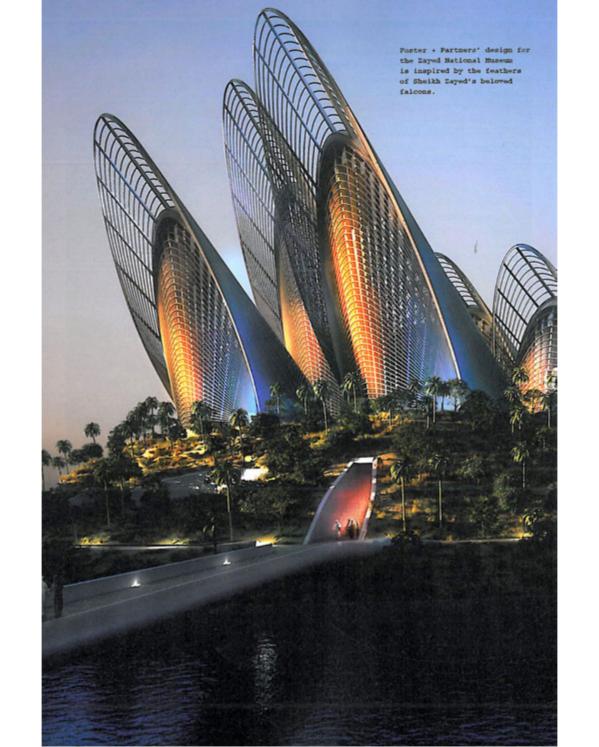


Saadiyat Island, looking south towards the cultural district.



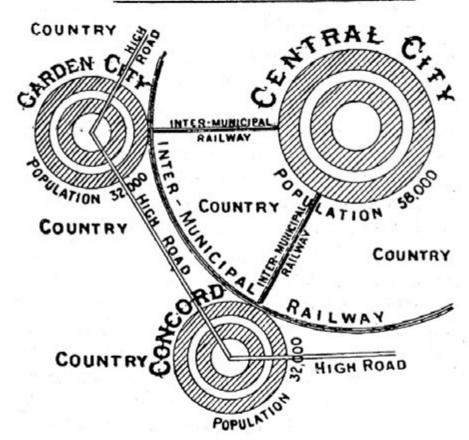


- 1. Guggenheim (Frank Gehry)
- 2. Louvre (Jean Nouvel)
- 3.Performing Arts Center (Zaha Hadid)
- 4. Maritime Museum (Tadao Ando)
- Zayed National Museum (Foster + Partners)



<u>№5.</u> — Diacram —

OF A CITY'S GROWTH - OPEN COUNTRY
EVER NEAR AT HAND, AND RAPID
COMMUNICATION BETWEEN OFF-SHOOTS.



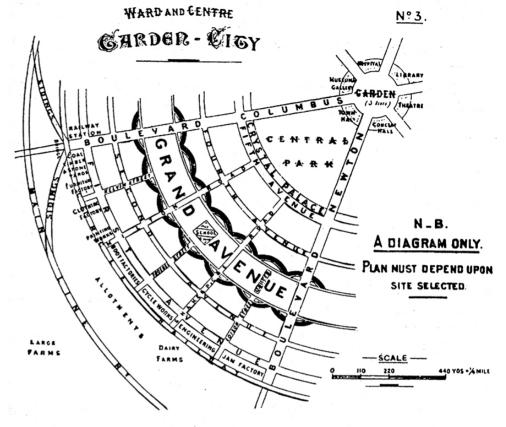


Diagramma - Il progetto è funzione dell'area prescelta.

COUNTRY

Corretto principio di espansione delle città.

Tianjin Eco-city (People's Republic of China)

Client: PRC and Singapore National Government; Sino-Singapore Tianjin Eco-City Investments and Development Co., Ltd. (SSTEC). **Designers**: China Academy of Urban Planning and Design; The Tianjin Urban Planning and Design Institute; Singapore Planning Team leaded by the Urban Redevelopment Authority of Singapore.

Date: framework agreement 2007; groundbreaking 2009; expected

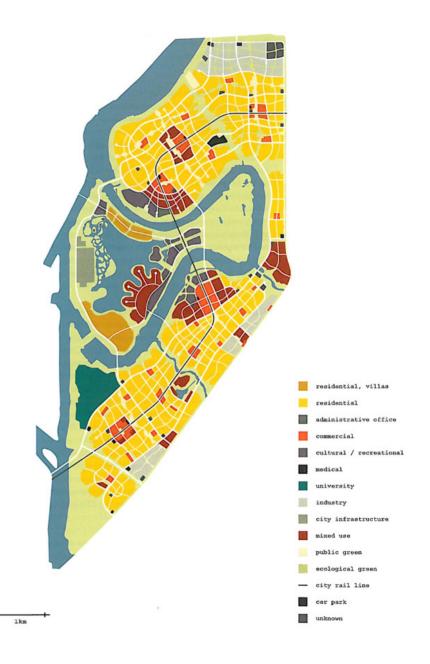
completion 2018-2023.

Status: Under construction.

Expected residents: 350.000.

Size: 30 Km². Cost: \$ 22 billion.

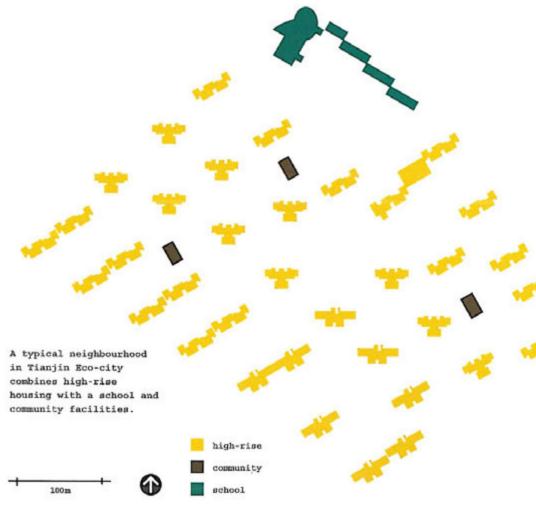








Seasons Park is one of the first residential developments under construction in Tianjin Eco-city. The project is being developed by Keppel Land Corp.



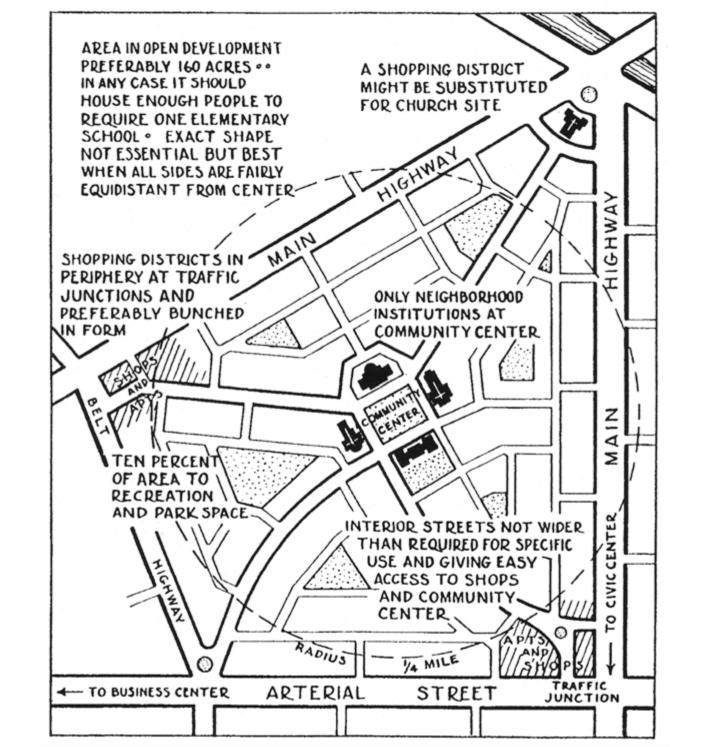


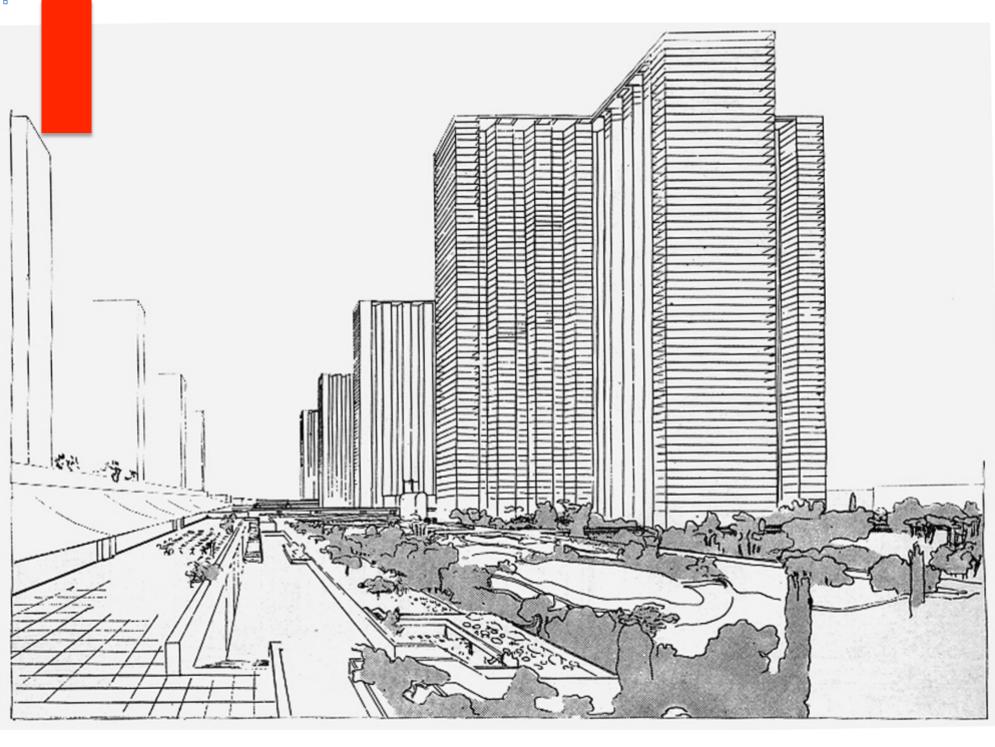
The Shimso neighborhood	shows the organization of high-rise
	The majority of housing is oriented
on the north-south axis,	, a characteristic of the Chinese
'feng shui'.	

用地平衡表				
項目	单位	数值	百分比	
规划总用地	m'	127205.7		
一居住区用地	D'	100286.7	100.00	
1住宅用地	m'	62374.7	62. 201	
2公共服务设施用地	m'	10700	10. 674	
[1] 飲育	m"	0	100	
[2]医疗卫生	m'	96		
[3]文化体育	m'	140		
[4]社区服务	m'	864		
[5]行政管理	E'	700		
[6]商业金融	="	900		
[7] 市政公用	="	1100		
[8]展示中心	m'	6900		
3道路用地	m'	8912	8.894	
4绿地用地	m'	18300		
[1]公共绿地	m'	7800	7.784	
[2]附属绿地	m'	10500	10.475	
二其他用地	m'	26919		
1城市道接用地	m'	15836		
2公共保地	m'	11083		

	項目	单位	数值
	总建筑面积	="	187938
異中	1地上建筑图积	2,	13927
	[1] 规划住宅建筑面积	m'	13368
	[2]规划公建建筑面积	="	559
	2地下建筑医权	Ε'	48662
任	宅建筑医权净密度	m*/m*	2.1
住宅建筑净密度		4	10.87
	建筑高度	-	74
	人口毛密度	人/hm'	326
	居住户数	p	116
жф	60-90m'	p	47
	90-150m'	户	69
	居住人数	人	3268
户均人口		人/户	2.1
建筑密度		5	10.40
	春秋業		1.4
	人均煤地	D,	2.39
	绿地车	5	44, 17
	机动车停车位	蝺	1024
Дф	1地上停车位	領	
	2地下停车位	縛	1024
	非机动停车位	绣	1894

彩色总平面图





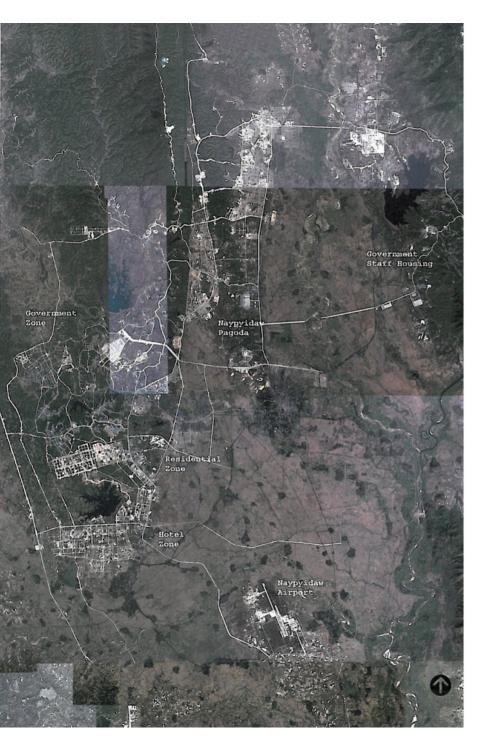
Naypyidaw (Myanmar)

Client: Burmese Junta. **Designers**: unknown.

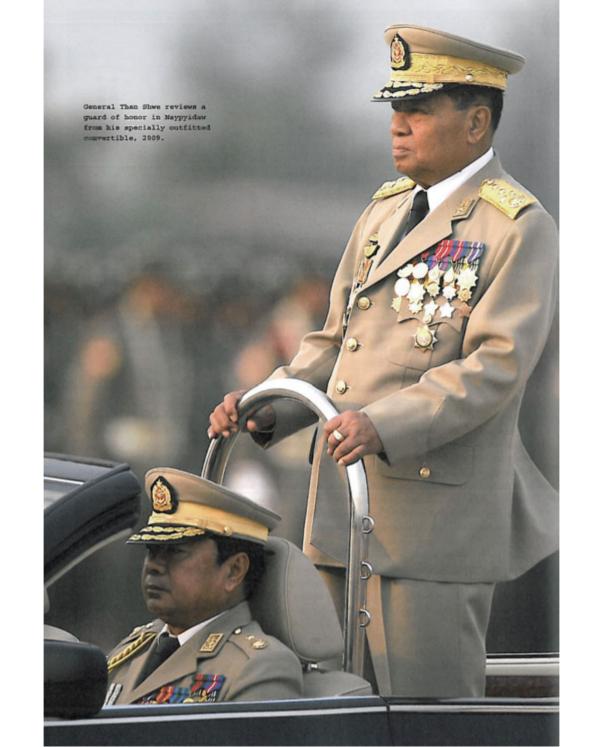
Date: 2002-2012.

Status: Under construction.

Expected residents: 925.000.











Ill-equipped workers dig a ditch beside new storefronts.



Color-coded residential towers indicate the employment of their inhabitants. Blue-roofed buildings house Ministry of Health employees, while green roofs mean the residents work for the Ministry of Agriculture. Military officials live behind electronic gates in villas on the other side of the city.

Astana (Kazakhstan)

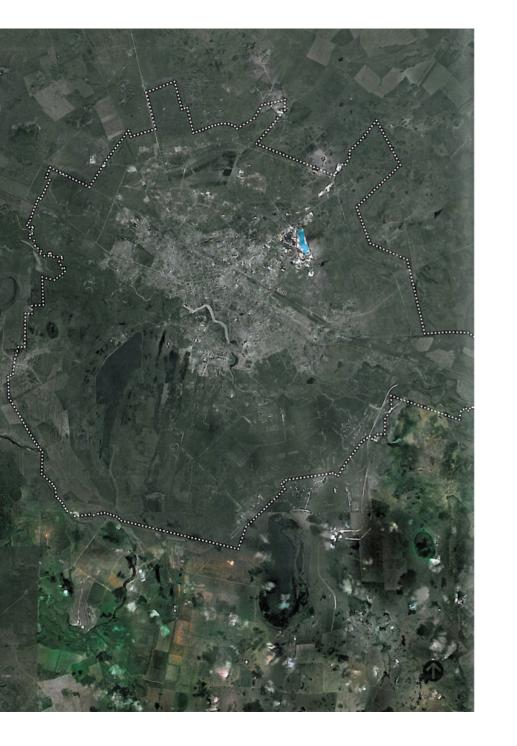
Client: Government of Kazakhstan.

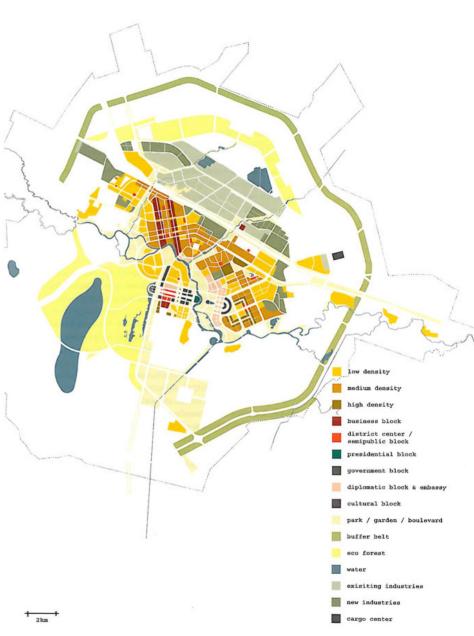
Designers: Kisho Kurokawa.

Date: 1997-2007. **Status**: Completed.

Current residents: 690.000 (2010).

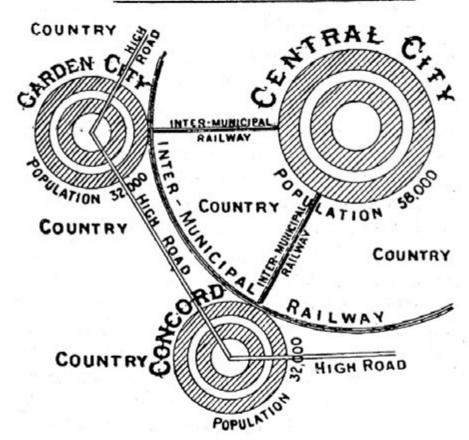
Cost: unknown.





<u>№5.</u> — Diacram —

OF A CITY'S GROWTH - OPEN COUNTRY
EVER NEAR AT HAND, AND RAPID
COMMUNICATION BETWEEN OFF-SHOOTS.



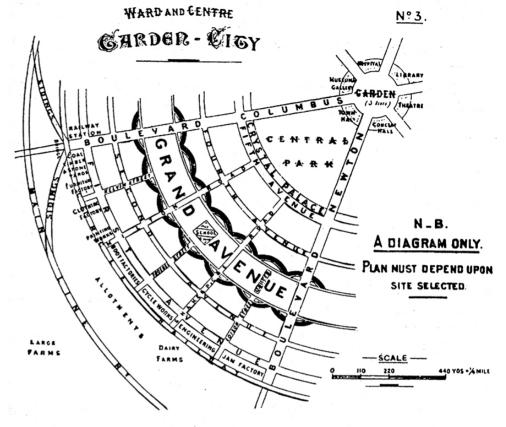
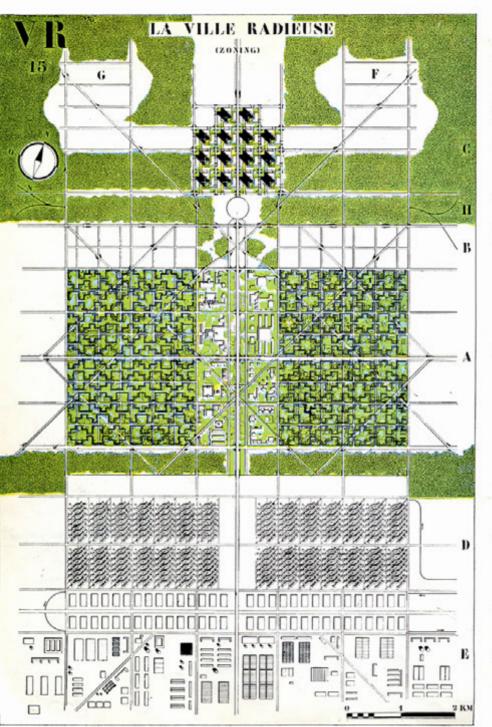


Diagramma - Il progetto è funzione dell'area prescelta.

COUNTRY

Corretto principio di espansione delle città.



Villes extellites, par ex.: siège du gouvernement ou centre des études sociales, etc.

La cité d'affaires:

La gare et l'aérogare.

Les hôtels. Les ambassades.

L'habitation.

Les manufactures.

Les entrepôts généraux.

L'industrie lourde.

The Blue City (Oman)

Client: Al Sawadi Investment & Tourism Company (ASIT).

Designers: Fosters & Partners.

Date: 2006-2020.

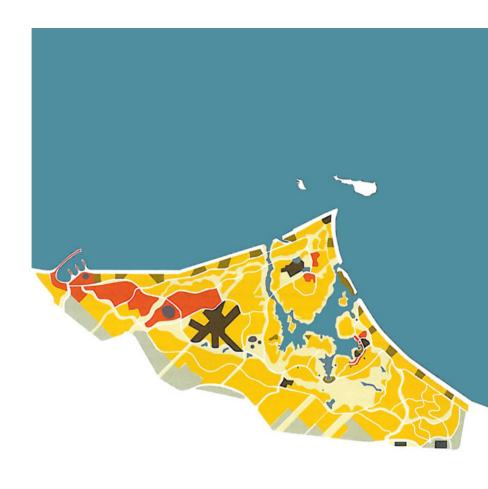
Status: Under construction, but heavily delayed.

Expected residents: 200.000. **Expected commuters**: xxx.

Size: 34 Km².

Cost: \$ 20 billion.







Camko City (Cambodia)

Client: South Korea's Shinhan Bank.

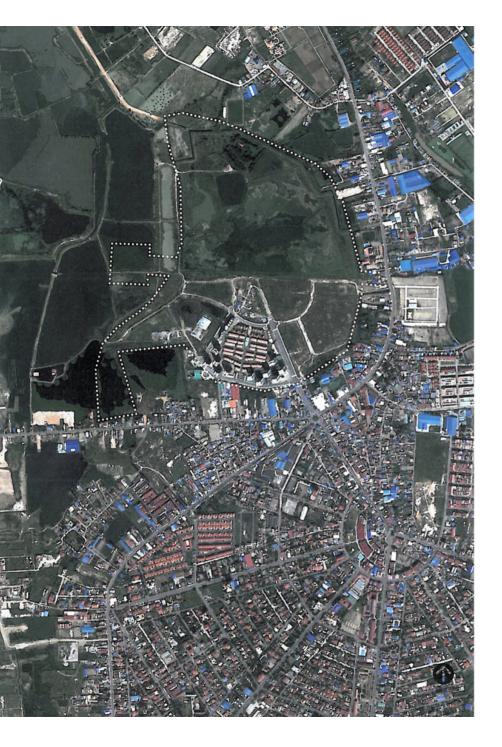
Designers: World City Co. Ltd.

Date: 2005-2018.

Status: Under construction.

Expected residents: 35.000. **Expected commuters**: xxx.

Size: 1,2 Km². Cost: \$ 2 billion.





office

convention center

government complex

medical center

hotel

high-rise condominium

mid-rise condominium

town house

retail

mixed use

public school / technical college / international school

200m

Binh Duong New City (Vietnam)

Client: Becamex IDC.

Designers: Cendes International and National University of

Singapore.

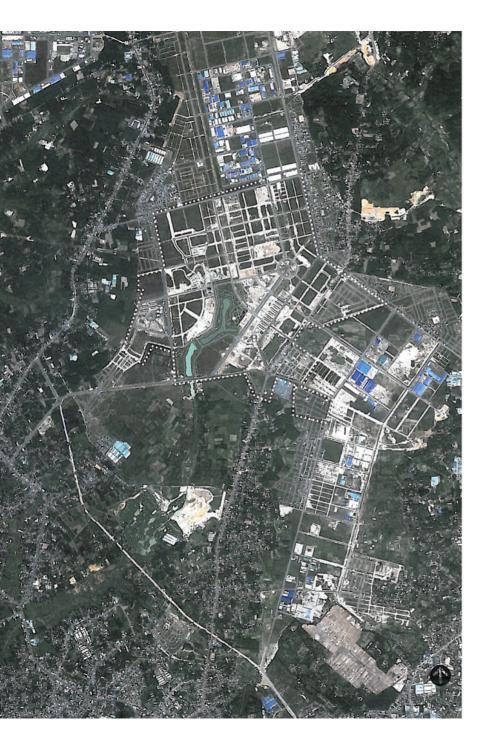
Date: 2005-2020.

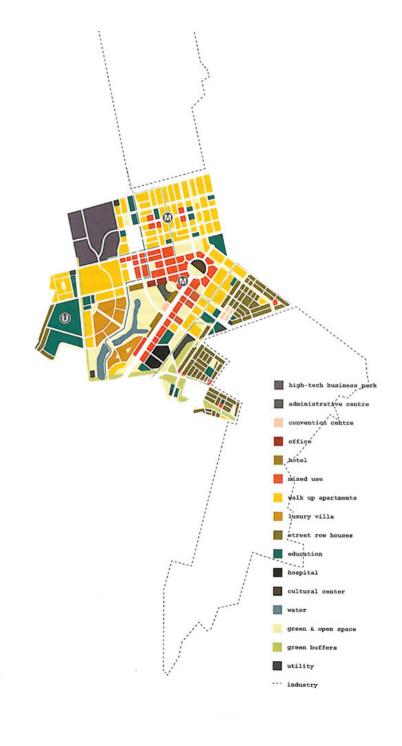
Status: Under construction.

Expected residents: 125.000. **Expected commuters**: 400.000.

Size: 10 Km².

Cost: \$ 1--15 billion.





King Abdullah Economic City (Saudi Arabia)

Client: Saudi Arabia General Investment Authority (SAGIA).

Designers: SOM, with WATG, Parsons International Ltd. and RSP.

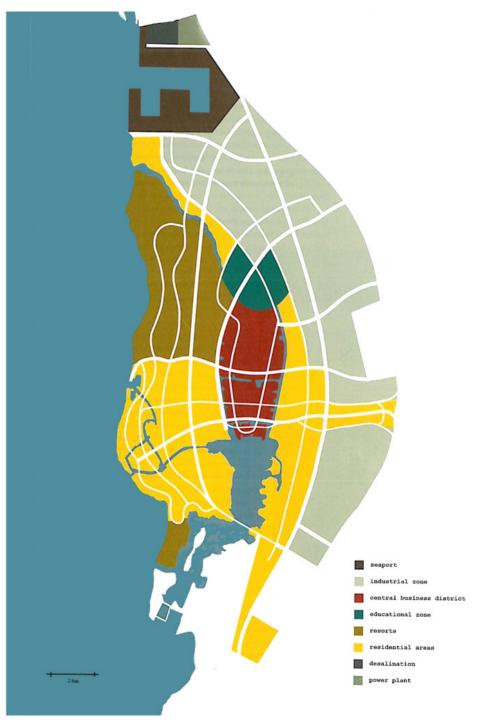
Date: 2006-2025.

Status: Under construction.

Expected residents: unknown.

Size: 168 Km². Cost: \$ 53 billion.





Magarpatta (India)

Client: Magarpatta Township Development and Construction

Company Ltd.

Designers: Hafeez Contractor.

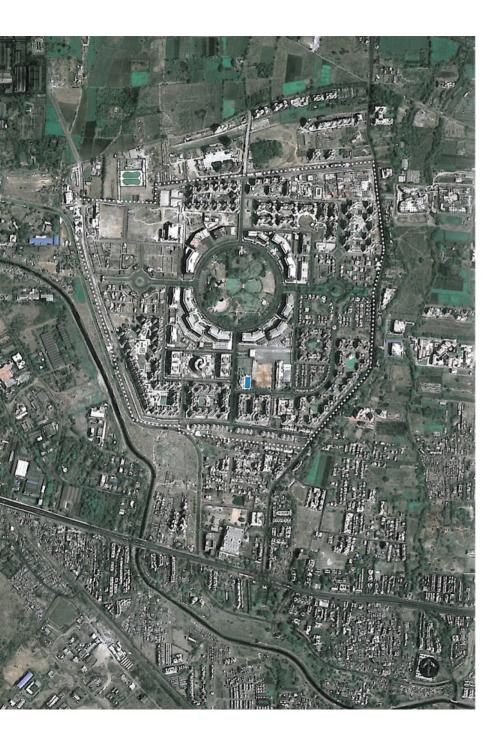
Date: 2000-2010.

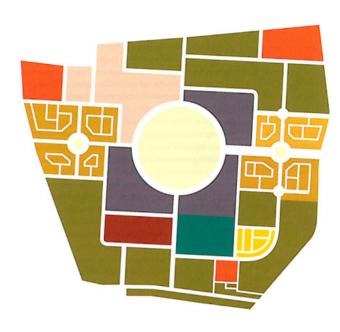
Status: Constructed.

Expected residents: 35.000.

Size: 1,6 Km².

Cost: \$ 183 million.





cyber city
office
villas
row houses
apartments
retail
education

green

SEZ

200m

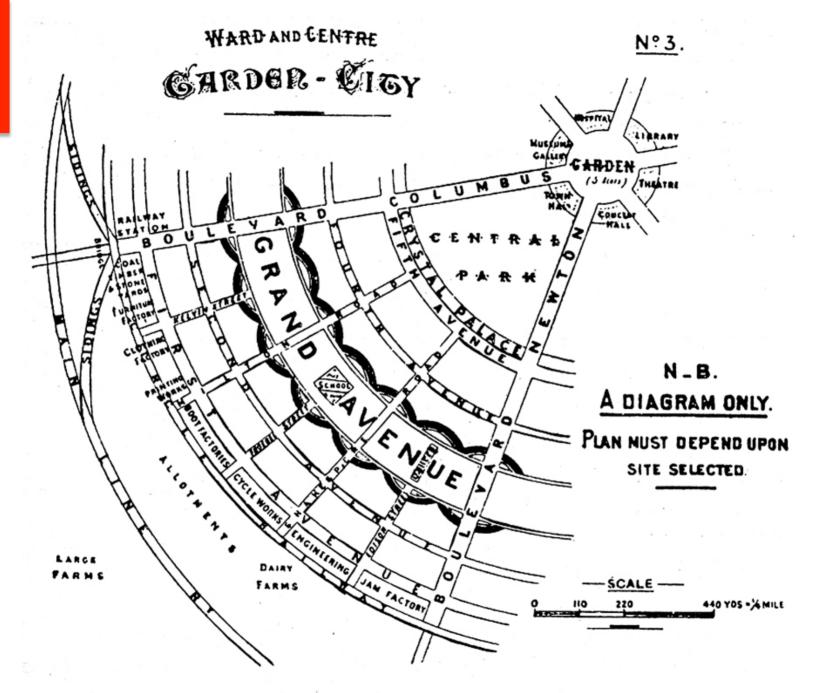


Diagramma - Il progetto è funzione dell'area prescelta.

New Songdo City (South Korea)

Client: Gale International and Korea's POSCO E&C with the City of

Incheon.

Designers: OMA (1996); KPF (2001-2015).

Date: 1996-2015.

Status: Under construction.

Expected residents: 65.000.

Expected commuters: 300-400.000.

Size: 6 Km².

Cost: \$ 35 billion.







office space

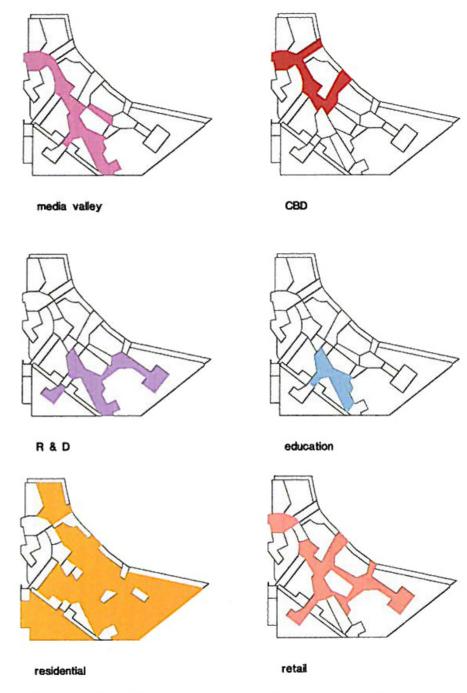


golf course & park

+ 500m

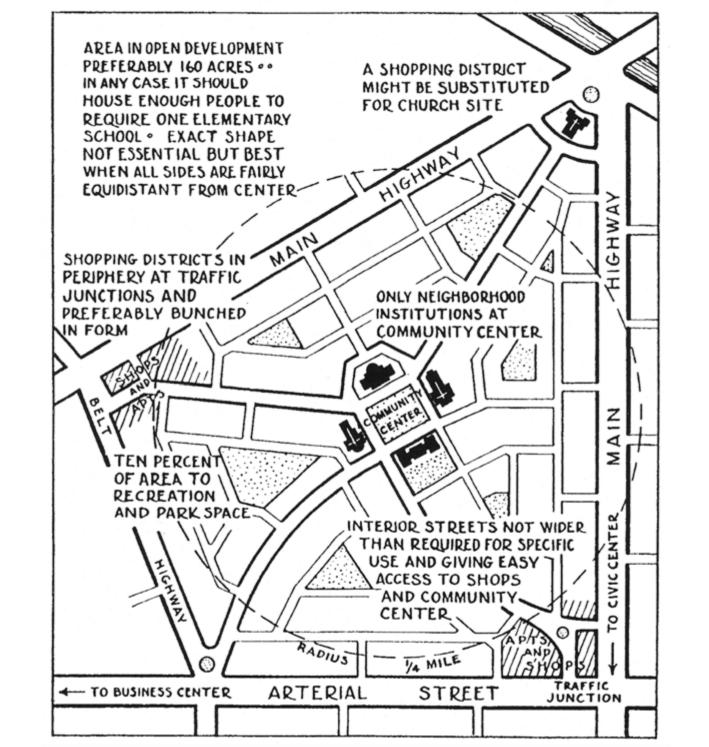


OMA's original masterplan for New Songdo City, 1996.

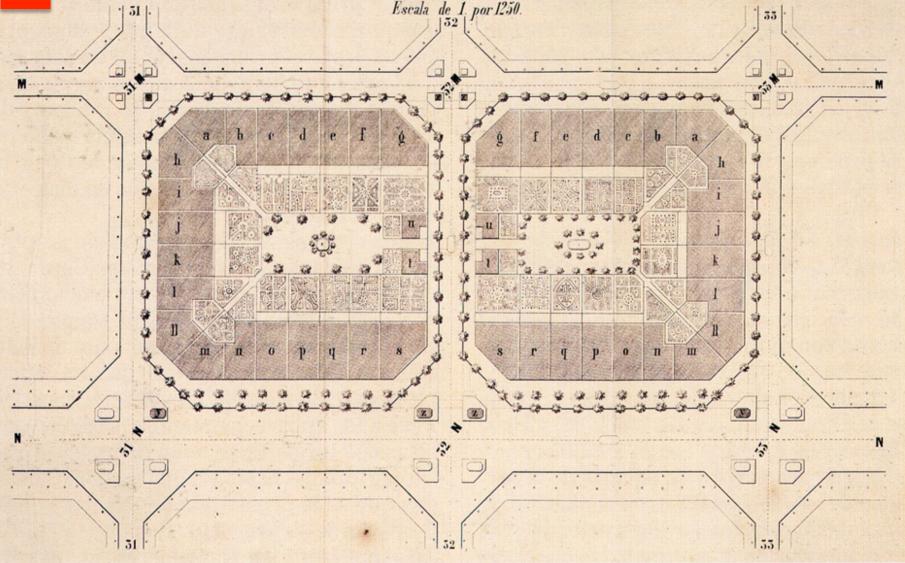


Programmatic bands were interlaced to create OMA's plan.

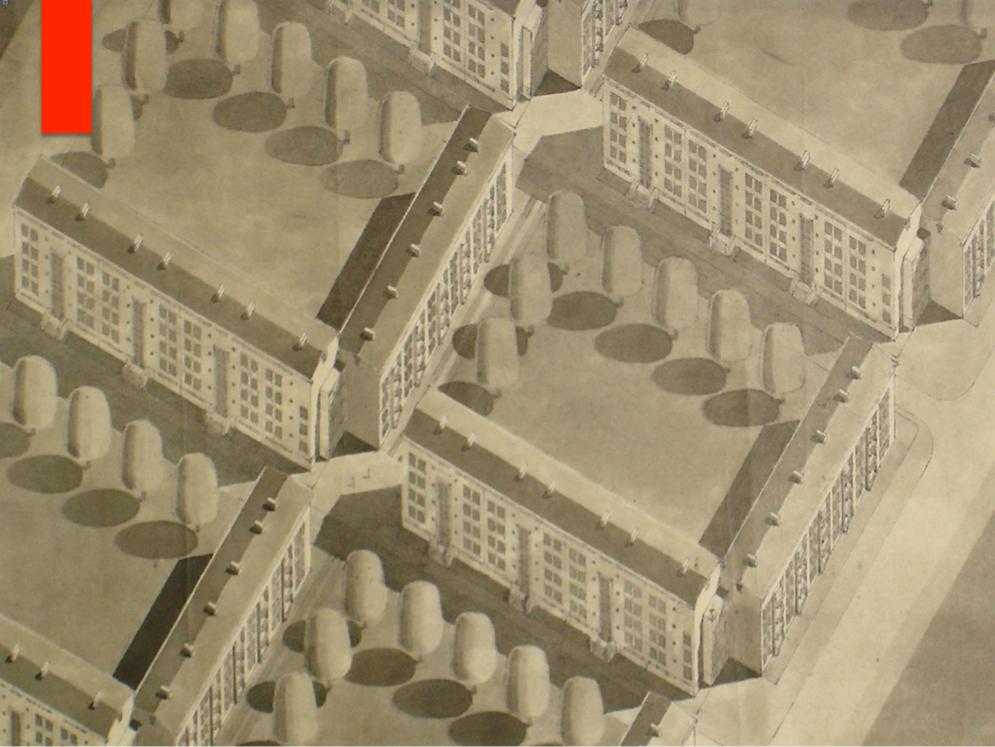




LES GEOMÉTRICOS DE LA PLANTA DE LAS NANZANAS 51 N 52 Y 52 N 55 QUE TIENE EN CONSTRUCCION LA SOCIEDAD FOMENTO del ENSANCHE de BARCELONA Escala de 1 por 1250.



Propuesta de dos manzanas de la sociedad El Fomento del Ensanche proyectada por Cerdà (A.H.C.B.)



Cyberjaya (Malaysia)

Client: unknown.

Designers: unknown.

Date: 1997-ongoing.

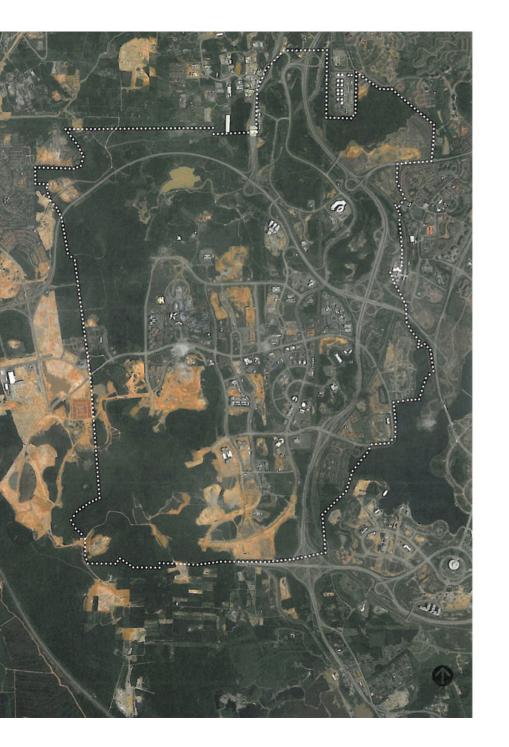
Status: Under construction.

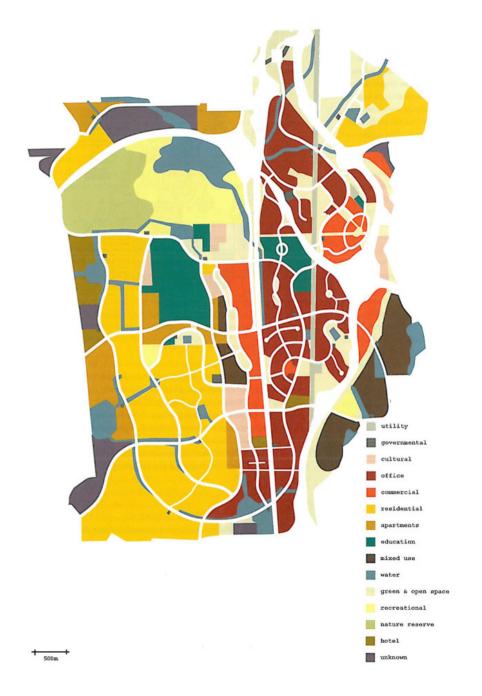
Current residents: 10.000.

Expected commuters: 27.000 daily.

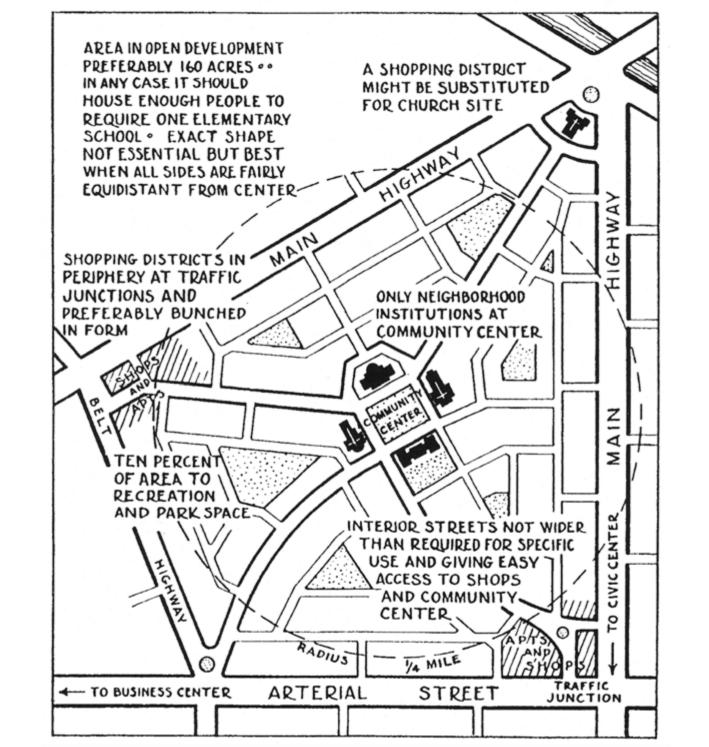
Size: 29 Km².

Cost: \$ 20 billion.









Songjiang New City (People's Republic of Cina)

Client: Shanghai Songjiang New City Construction and Development Co. Ltd.

Designers: WS Atkins (Thames Town and Songjiang New District).

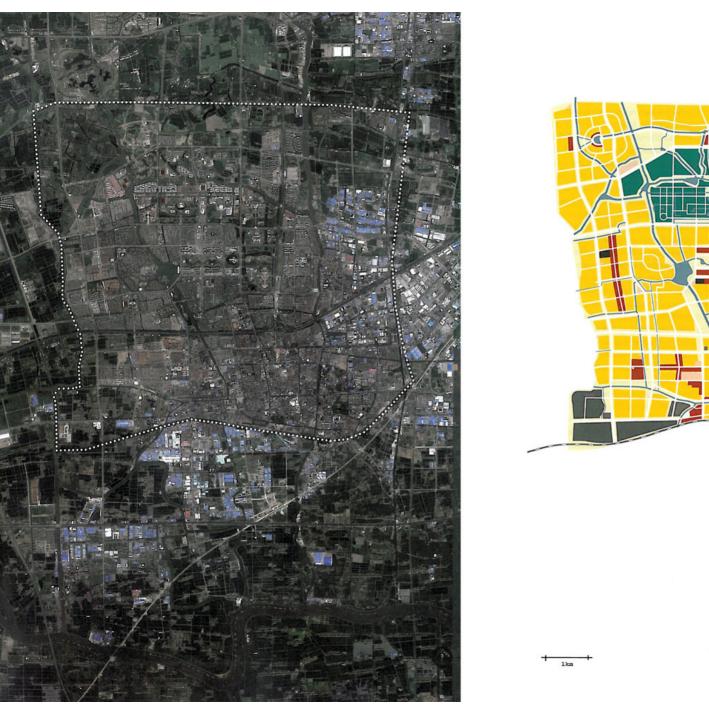
Date: 2001-2012.

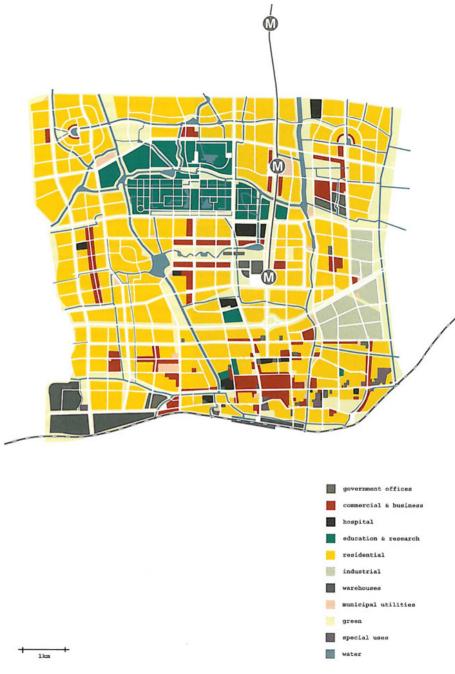
Status: Tames Town was completed in 2005, parts of Songjiang

remain under construction.

Expected residents: 1.000.000.

Size: 36 Km².









ONGAR

A NEW SATELLITE TOWN OF 60,000 **POPULATION**

EXISTING BUILDINGS

HOUSES GARDENS & FLATS

SCHOOLS

SHOPS & COMMERCIAL BLDGS

PUBLIC BUILDINGS

INDUSTRY

PUBLIC OPEN SPACE AND SCHOOL PLAYING FIELDS

CAR PARKS AND GARAGES

RAILWAYS AND STATIONS

CONTOURS AT 20' INTERVALS

POPULATION IN EACH NEIGHBOURHOOD:-

No. I 10000 11750 No. 2 11500 No. 5 8600 8,200 9,400 No. 6 IN OLD ONGAR & ELSEWHERE :- 550

TOTAL 60,000

NET RESIDENTIAL DENSITY 3O PERS. PER ACRE THE PLANNING OF THIS COMMUNITY FOLLOWS THE STANDARDS SUGGESTED IN

CHAPTER 8, EXCEPT FOR AN EXTRA 300 ACRES OF OPEN SPACE (IN THE RIVER VALLEYS) WHICH BRINGS THE TOTAL UP TO APPROX.15 ACRES PER THOUSAND PEOPLE



Pujiang New Town (People's Republic of China)

Client: unknown.

Designers: Gregotti Associati Internatinal.

Date: 2001-2010. **Status**: Completed.

Current residents: 80.000.

Pujiang New Town, "città italiana" di 80.000 abitanti, si inserisce nel programma di assetto policentrico di Shanghai.















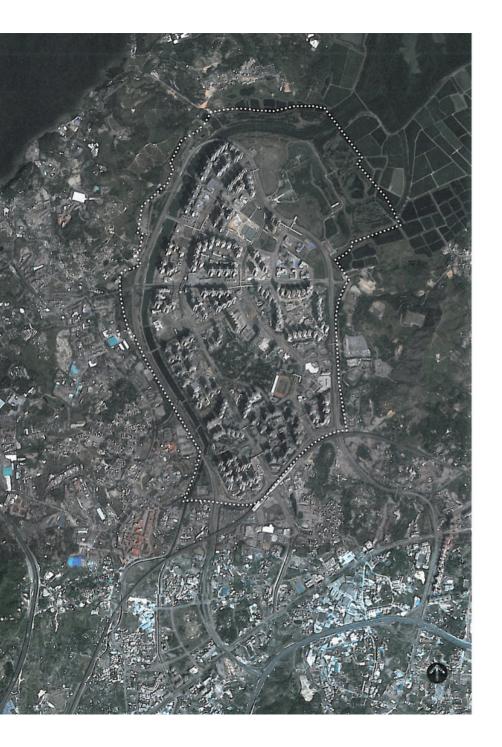
Tin Shui Wai (Hong Kong)

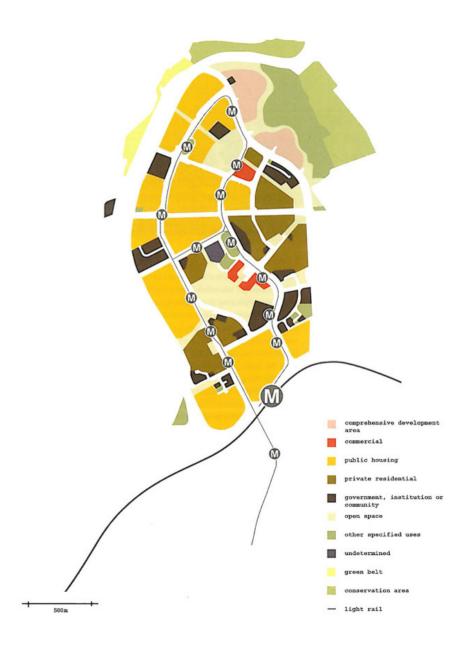
Client: Hong Kong Government.

Designers: Hong Kong Housing Authority (HKHA).

Date: 1990-2006. **Status**: Completed.

Current residents: 289.800.





Bumi Serpong Damai (Indonesia)

Client: unknown.

Designers: Dioxiadis & Associates, Pacific Consultant International,

Japan City Planning Inc., Nihon Architects Engineers and

Consultants Inc.

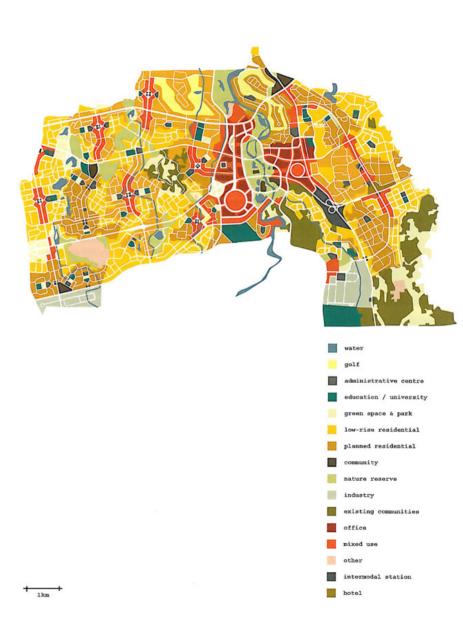
Date: 1994-ongoing.

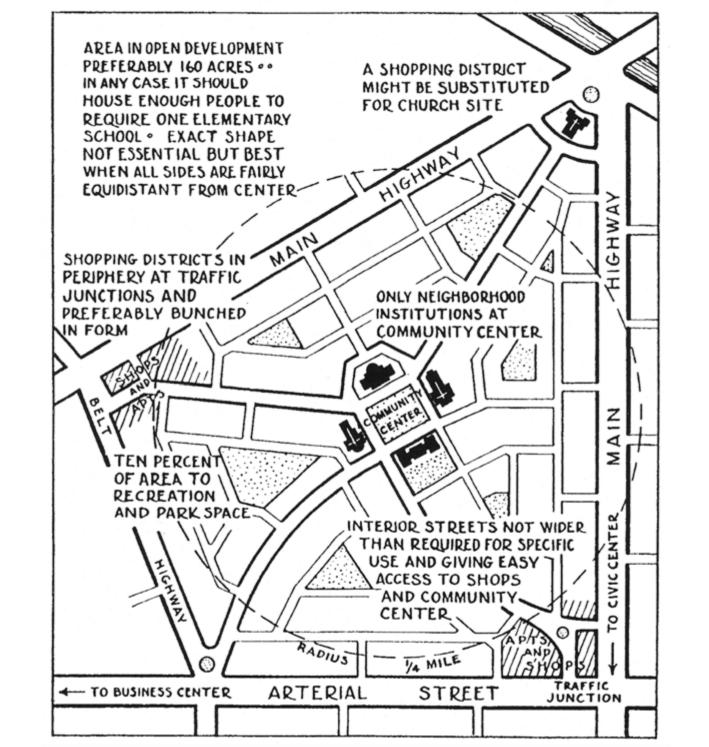
Status: Under construction.

Current residents: 100.000.

Size: 60 Km².





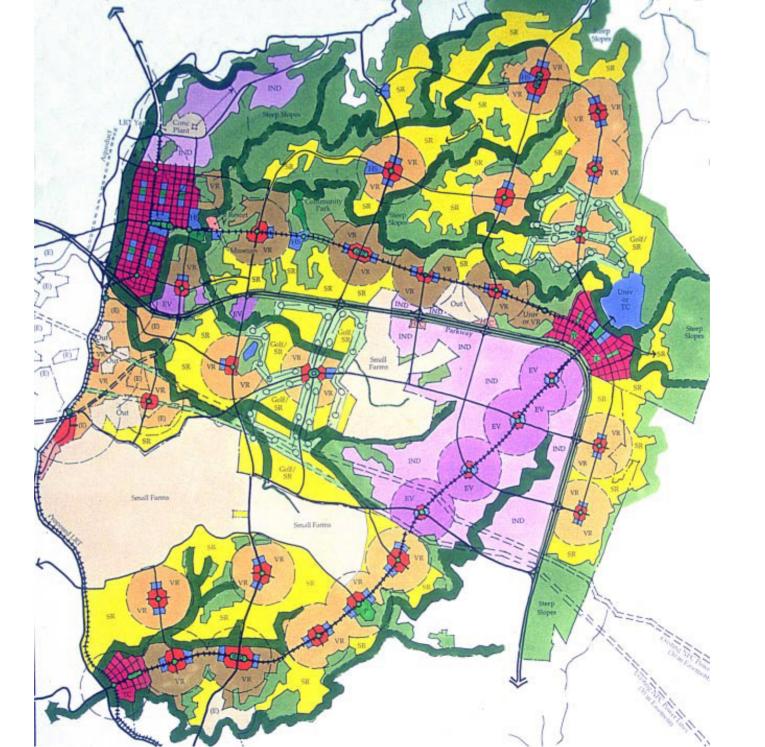


Green City (Philippines)

Designers: Cathorpe Associates.

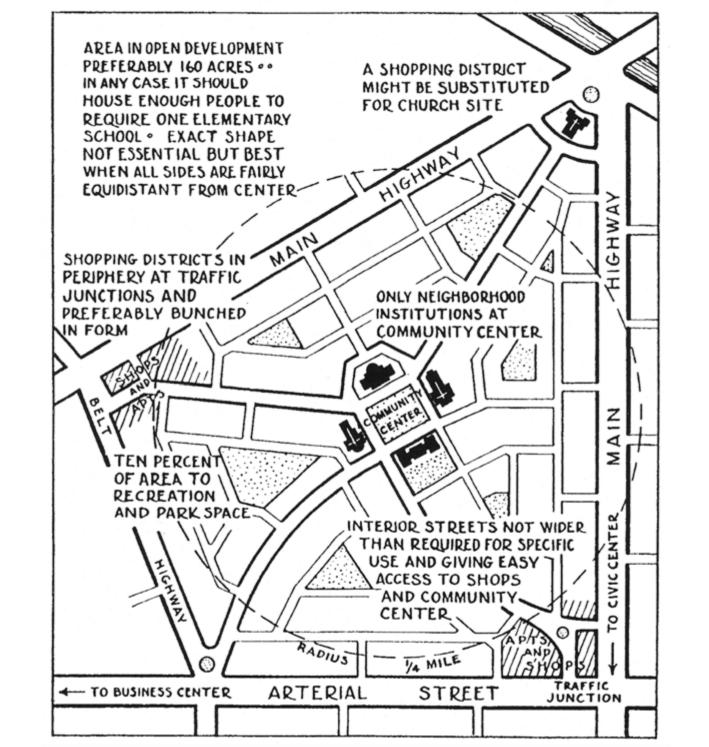
Il progetto prevede una nuova città di 500.000 abitanti nell'area metropolitana di Manila.

Il modello insediativo proposto prevede un assetto policentrico fondato su un sistema di "villaggi residenziali" di carattere estensivo, ognuno dei quali dotato di un centro compatto strutturato intorno a spazi collettivi, e "centri città" di maggiore densità e pronunciata immagine urbana, contenenti i servizi di scala urbana e le funzioni pregiate.





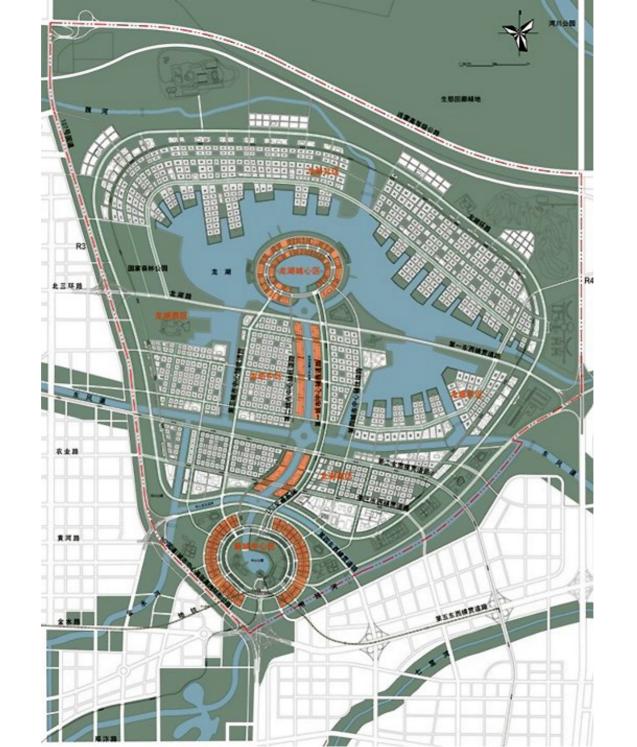




Zenghzou New City (People's Republic of China)

Designers: Kisho Kurokawa.

The Zhengdong New City of 1.5 million people was designed with the aim of creating a new-loop city, a "Ring City" for the CBD of the Zhengdong district (5040ha). The design of the ring road was based on the themes of metabolism and symbiosis of metabolism movement of 1960. Ring city is a cell cluster without center, in other words, it is a city of no center, and was designed to blend in with the ring high-rise-building zone. The center is void (park) and clearly categorized in five areas depending on their function and form a municipal park, an educational forest, a riverside park, traffic playground and a central park (Lakeside).





Zenghzou Avenue (People's Republic of China)

Designers: Broadway Malyan.

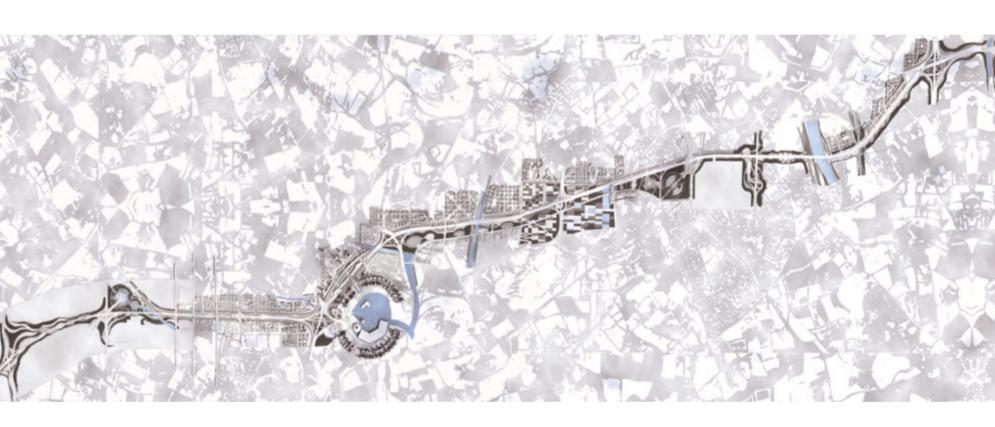
The purpose is to transform the approach route and urban centre of this major mainland city of 2.2 million inhabitants, in preparation for a programme of urban expansion to allow the city to double in size over the next 15 years.

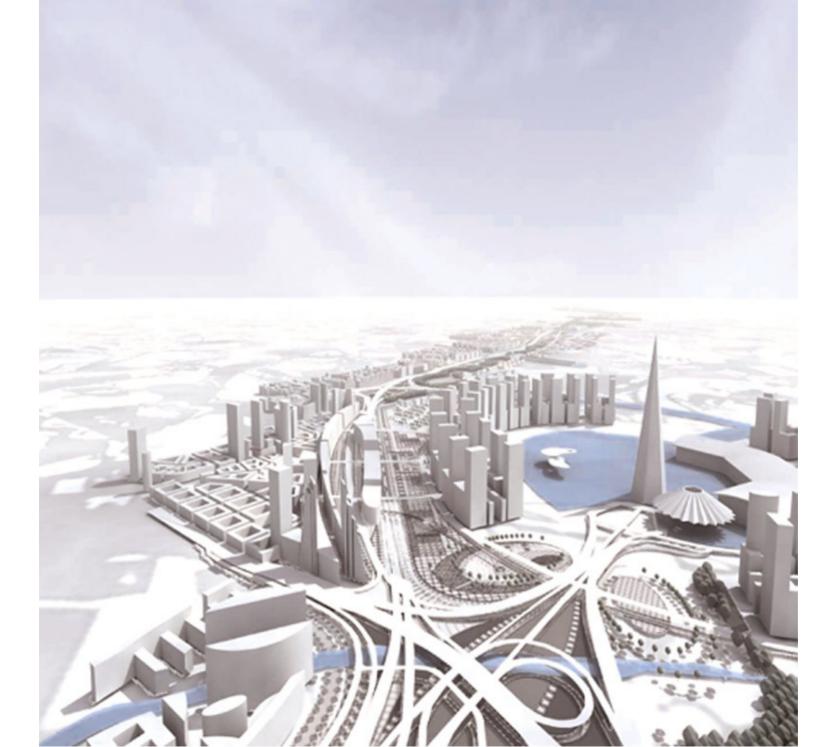
A new city is planned to be built around a 100 mt wide urban boulevard avenue linking the airport to the City and the Yellow River beyond.

A 32 km long, 1000 mt wide swathe of urban development was designed.

The scheme's concept sought to utilise the City's rivers and waterways for transport and as attractive settings for the buildings and parks.

A new tourist canal route was devised to allow visitors to tour the city and travel by boat to the Yellow River.





Wanzhuang Eco-city of agricolture (People's Republic of China)

Designers: Arup.

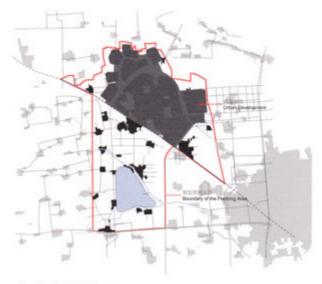




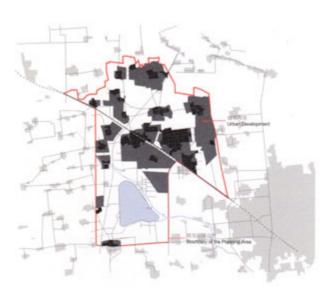




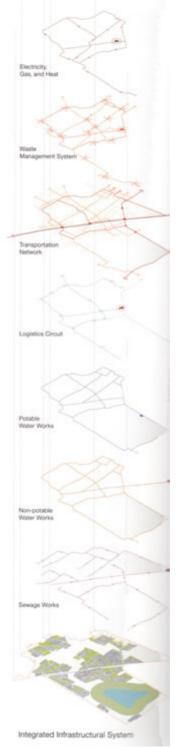


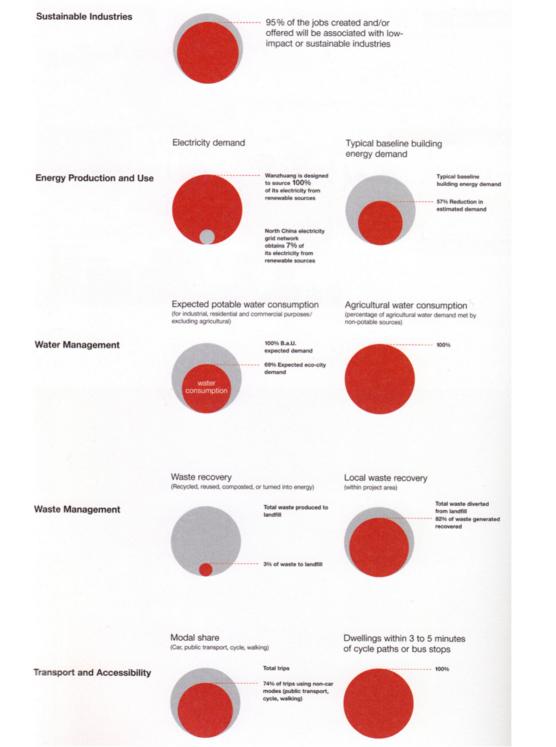


常投票例用地(现有规划) BUSINESS-AS-USUAL DEVELOPMENT (EXISTING PLAN)



生态或占地 ECO-CITY DEVELOPMENT

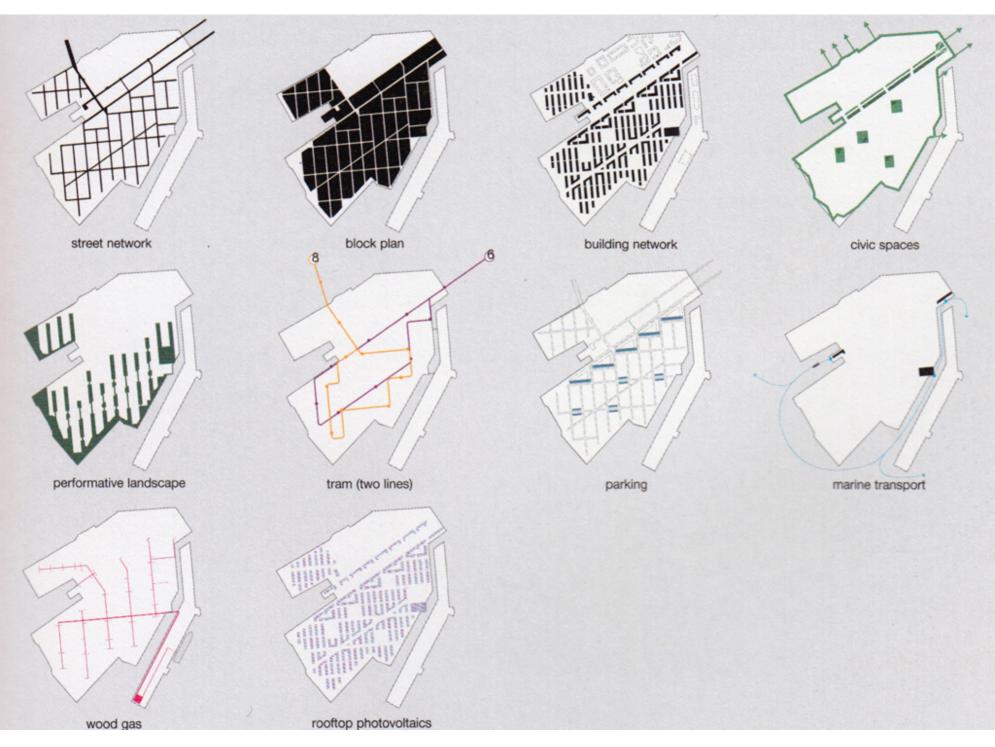




Jätkäsaari Low2No Competition project (Helsinki, Finland)





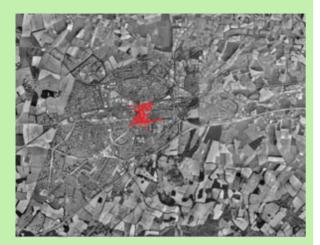


Basingstoke East (Great Britain)

Designers: Broadway Malyan.

Stage I. Vision & Masterplan

Stage II. Phase 1 Design Framework



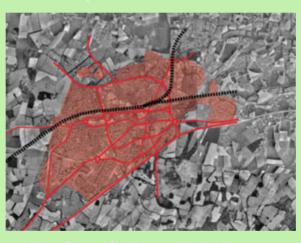
1851. Population: 4000



1868. Population: 26.000

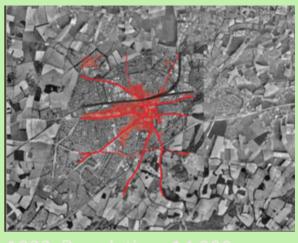


1884. Population: 7000

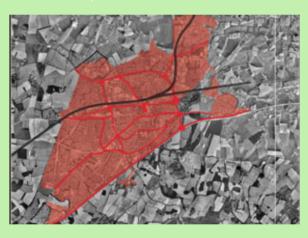


1985. Population: 75.000

Urban form evolution



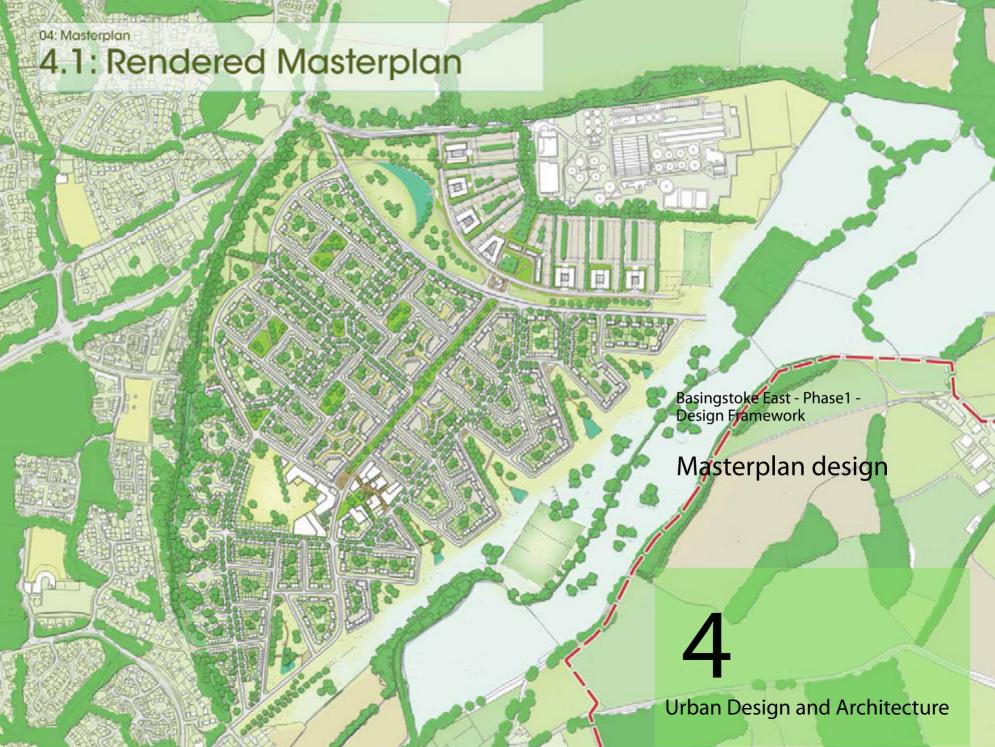
1933. Population: 14.000



2002. Population: 152.000

4





Land use

- 3 Centres of activity
- Create a community core
- Distribute local facilities within walkable distance









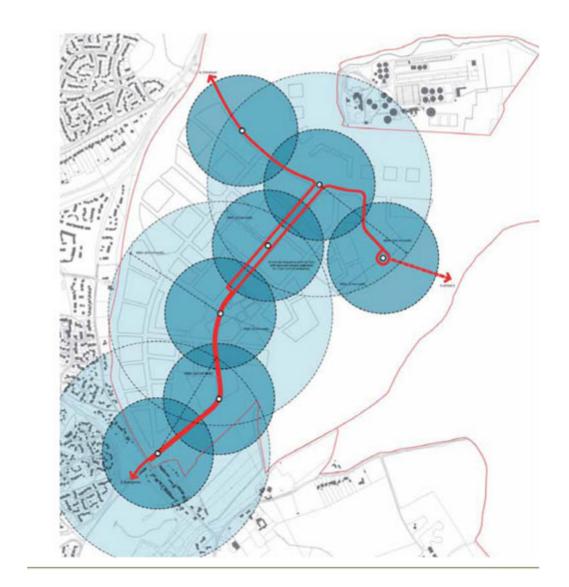
Public Transport

- 200m from bus stop
- High frequency bus
- Higher density close to bus stop
- 400m cover the entire community









Ped & Cycle movements

- Connecting places
- Sharing surface across development
- Community Core 400m
- Link to existing communities
- Access to country park









Road Hierarchy

- Existing access to site
- Links to Phase 2
- Primary routes
- Secondary routes
- Residential roads
- Dedicated bus rout ϵ









Public space hierarchy

- Spaces define character areas
- Access to public spaces
- Provide meeting places for the community
- Create variaty of spaces
- Connecting places with roads
- -Public spaces define entrances to new development









Public Space typologies

Boulevards:

- · A grand public space gesture
- A central defining space for the development
- A linking space between the different activates



Squares:

- Neighbourhood scale community spaces
- Formal green space with play areas and public gardens
- Located within broken grid street patterns to encourage a sense ownership







Public Space typologies

Green Fingers:

- Transitional spaces between the urban environment and the open country side.
- Adventure play areas and exercise equipment
- Swales for SUD's run through the spaces and create a country feel

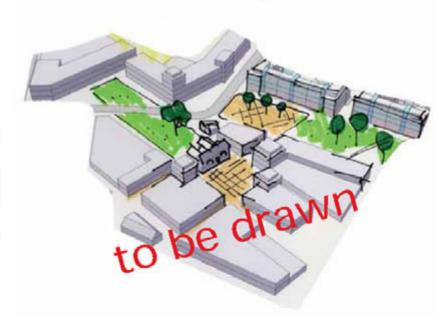




Town Square:

- Urban hard spaces as a focus for retail and community activity
- One square in front of the school for milling crowds
- One enclosed square framed on one side by the existing listed building





Public Space typologies

Urban Parks:

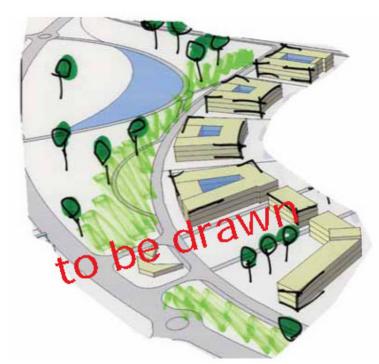
- Open green space framed by development linking different areas of the development together
- · Recreation uses and playing fields
- Celebrating as well as preserving the park pale.



Hamlets:

- Circular green spaces framed by clusters of no more than 12 houses
- Public Spaces created to be owned by the households that frame them







Sequence of spaces

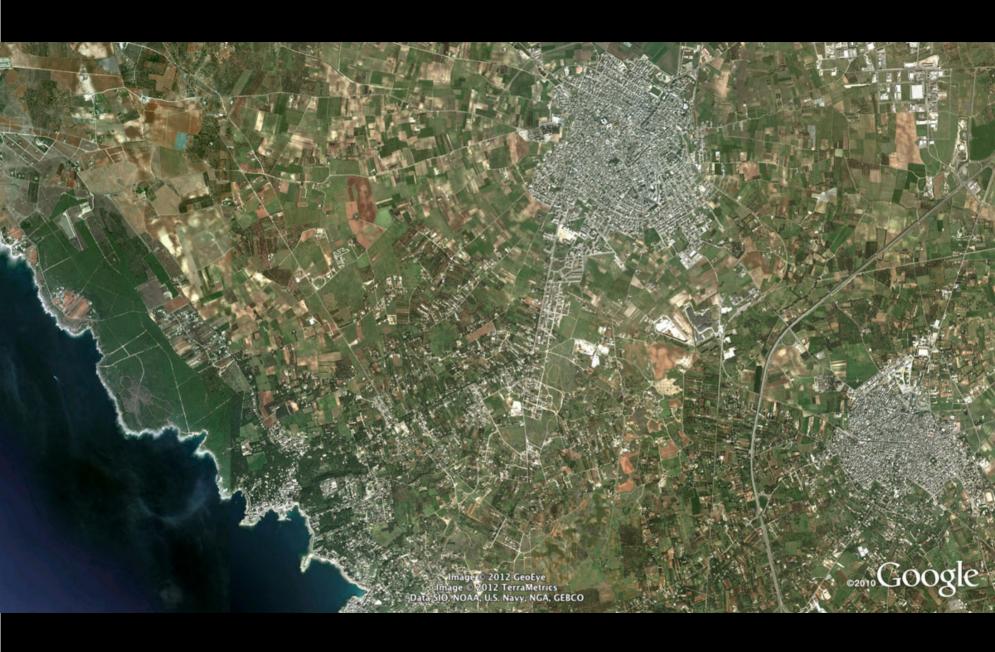
 Create interest walkable neighbourhood Going to work...

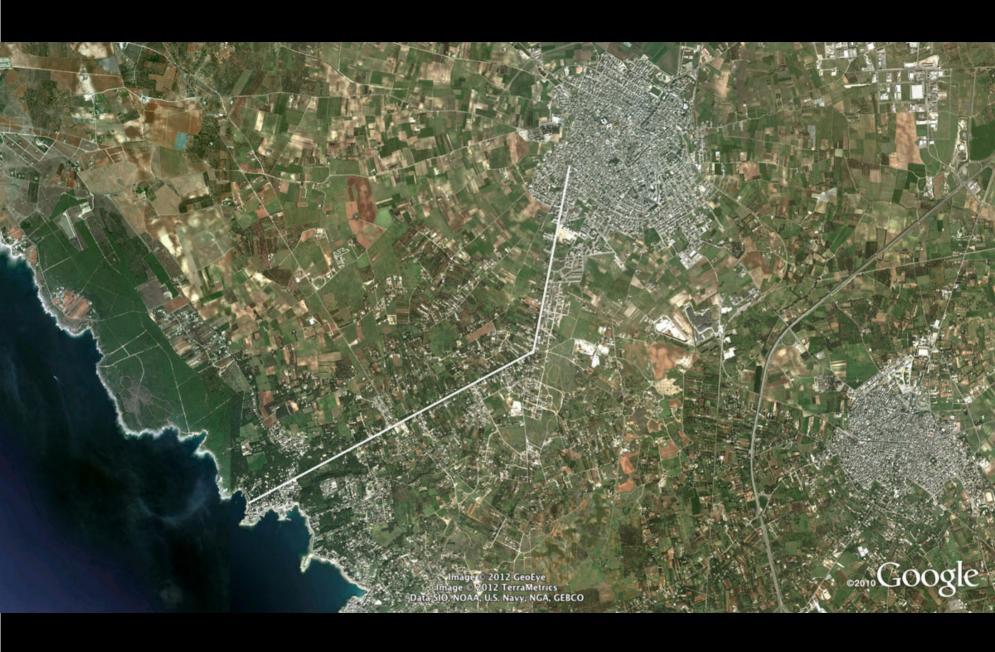
 Incentivate use of alternative no-carbon consumption transport

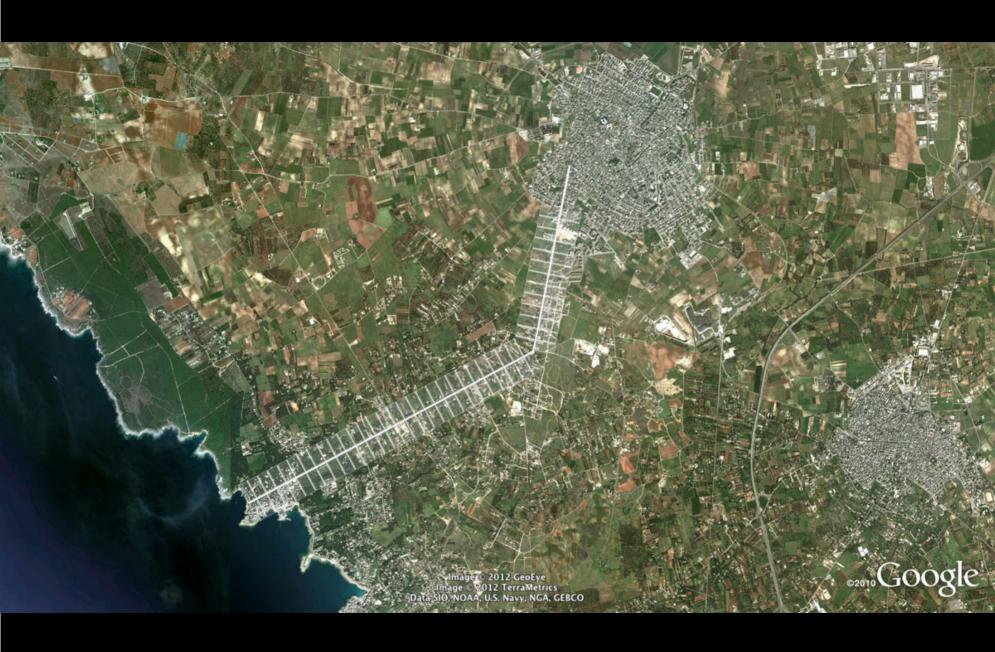


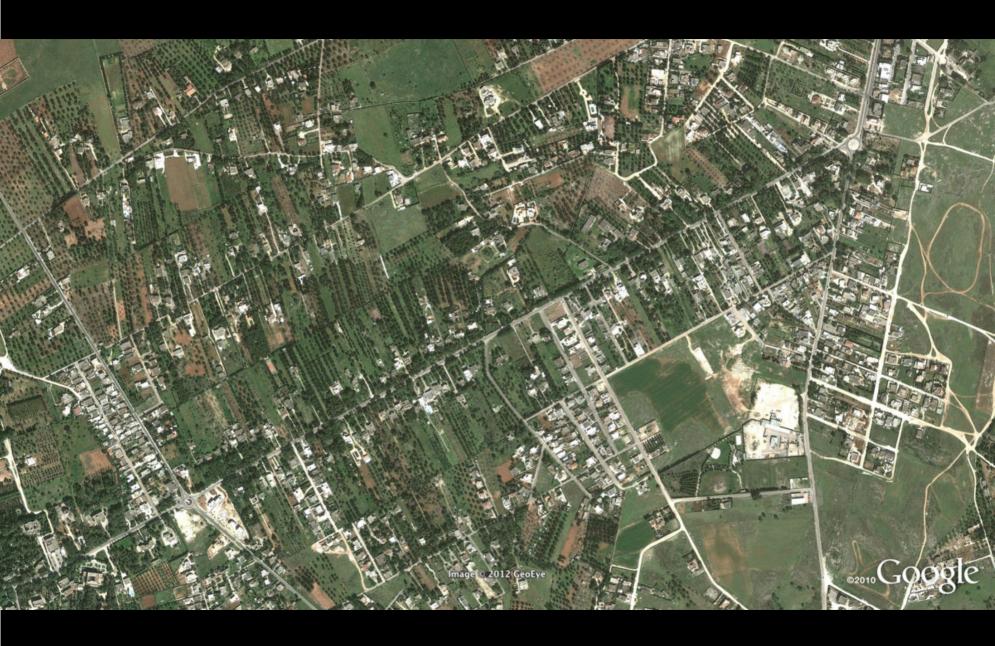
7. References application: retrofitting spontaneous outcropping Cities

Nardò (Lecce)

























Lugano (Switzerland)

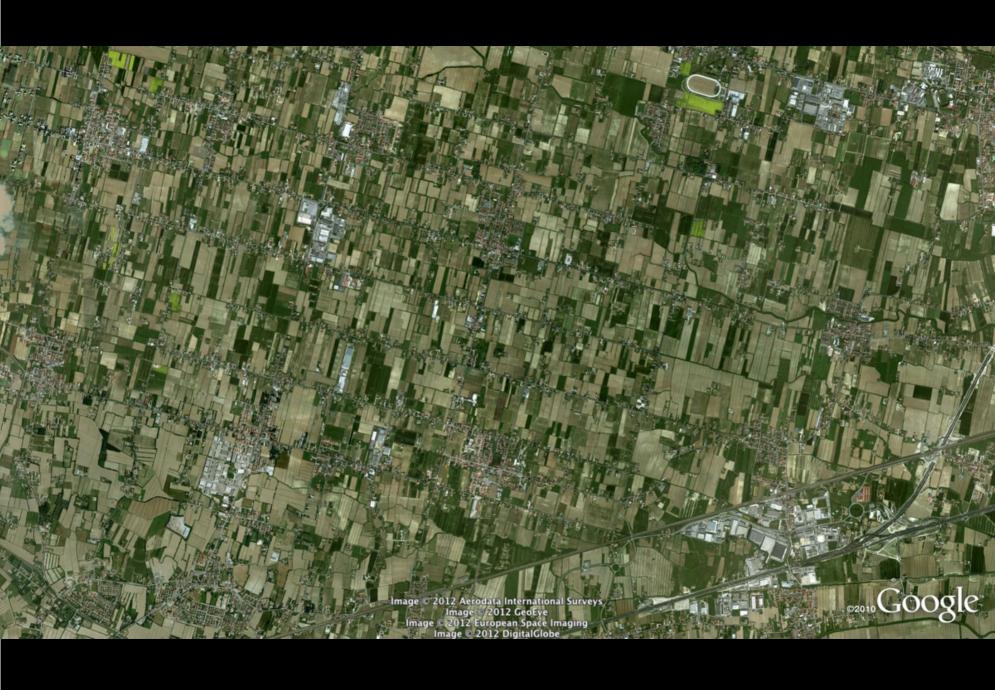


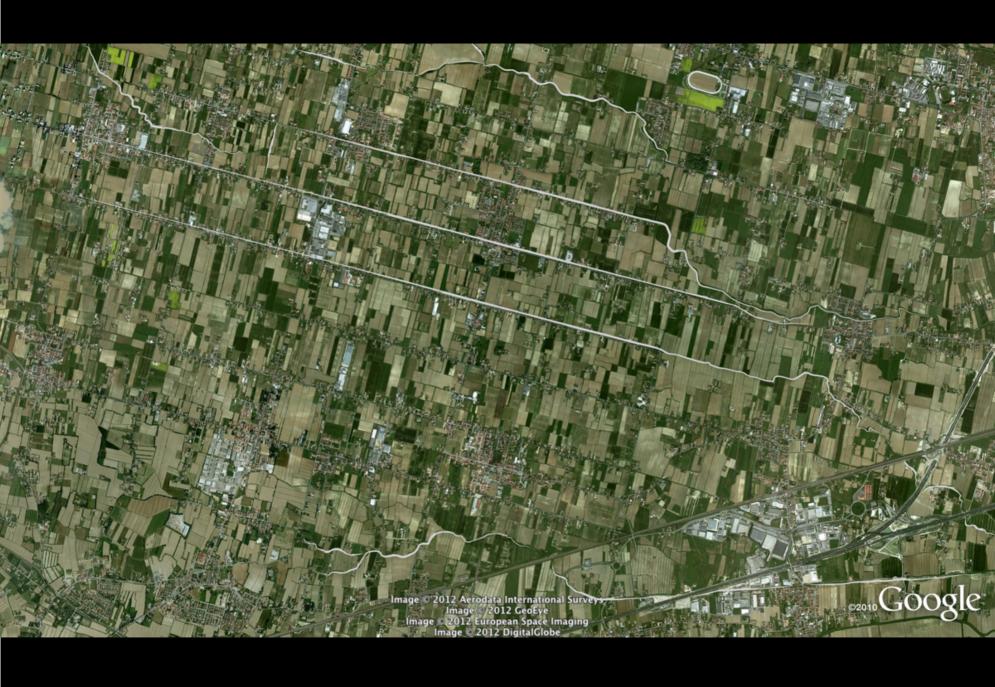


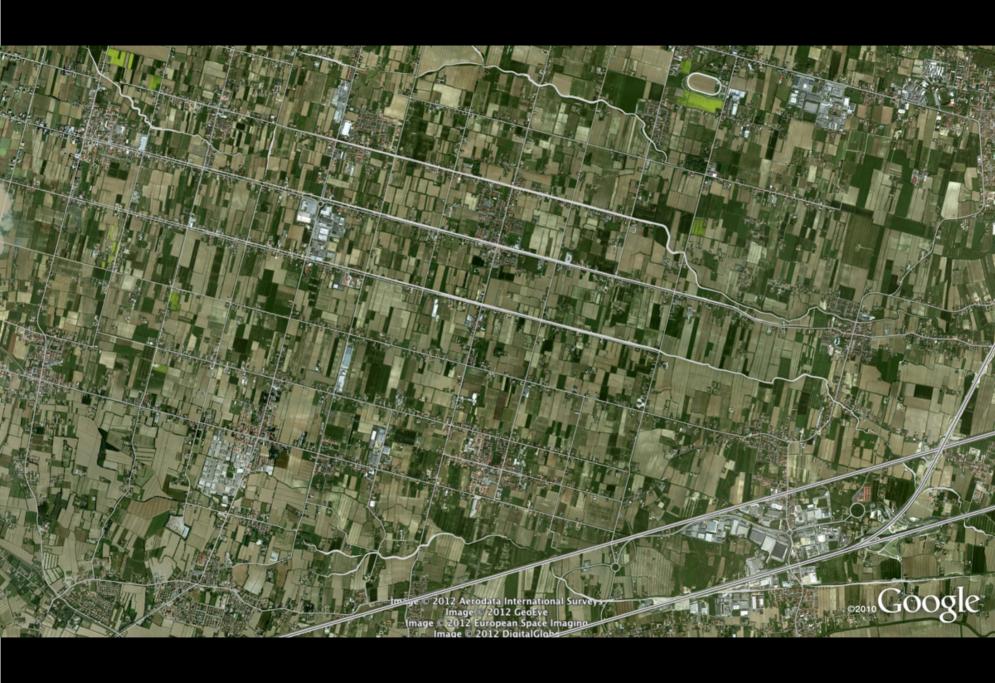




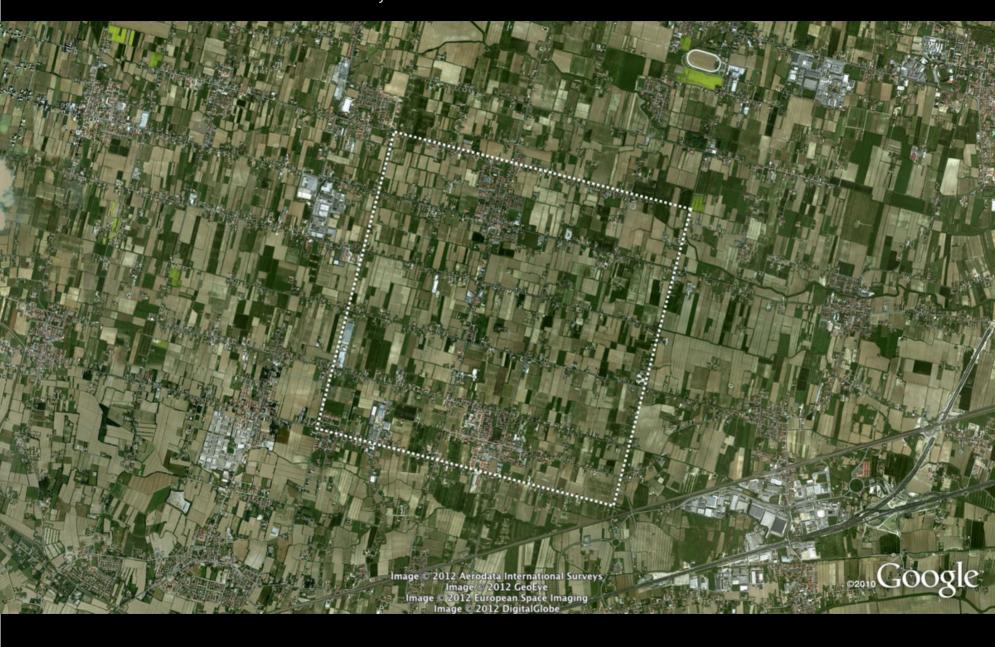
Pianiga (Venezia)

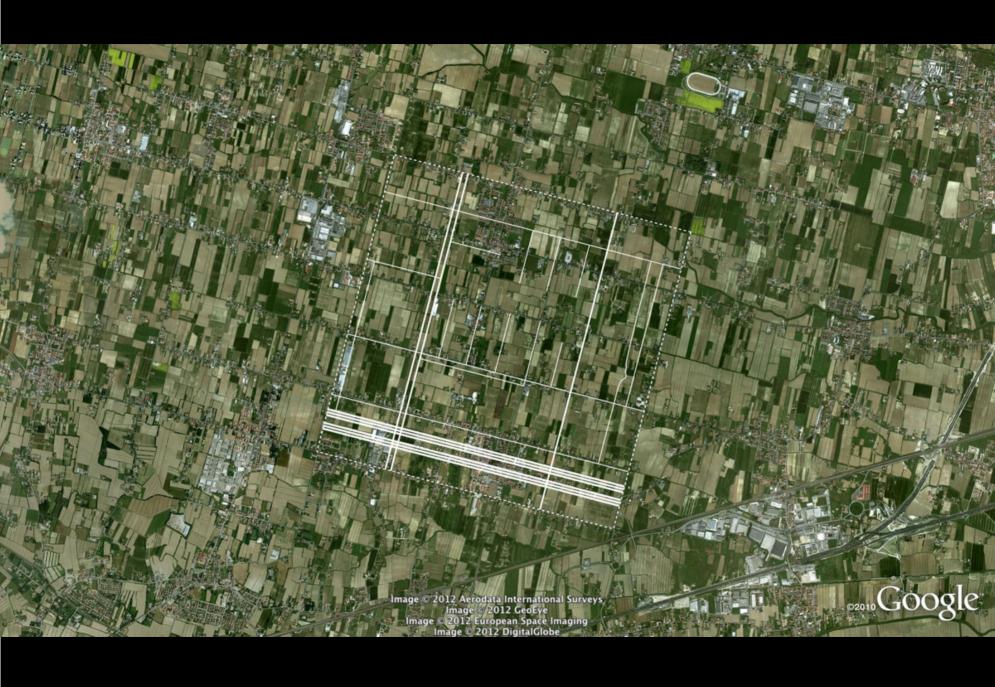


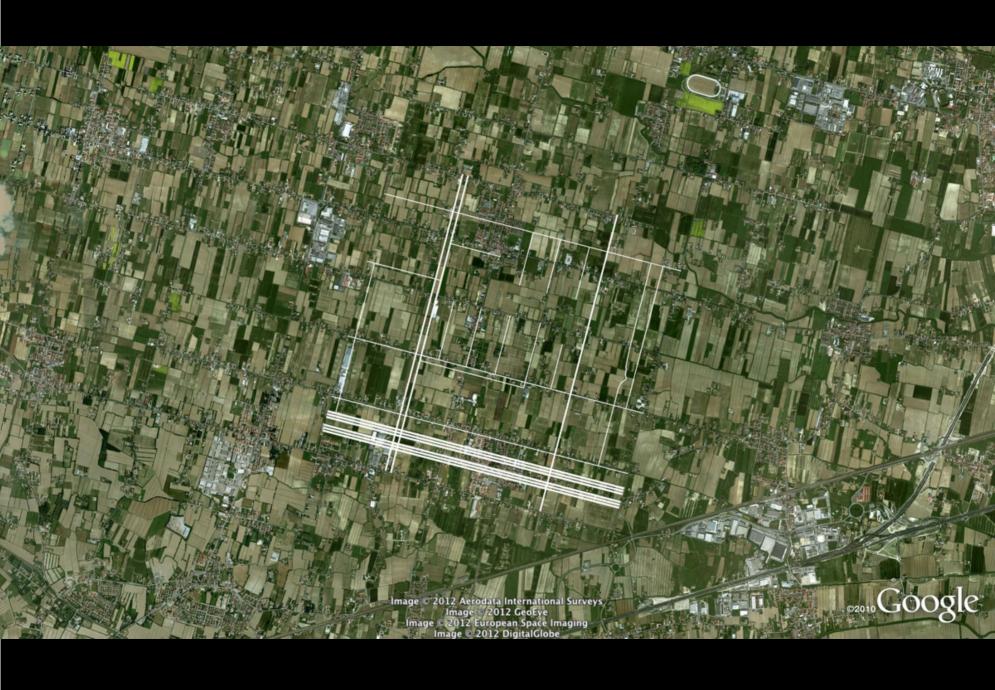


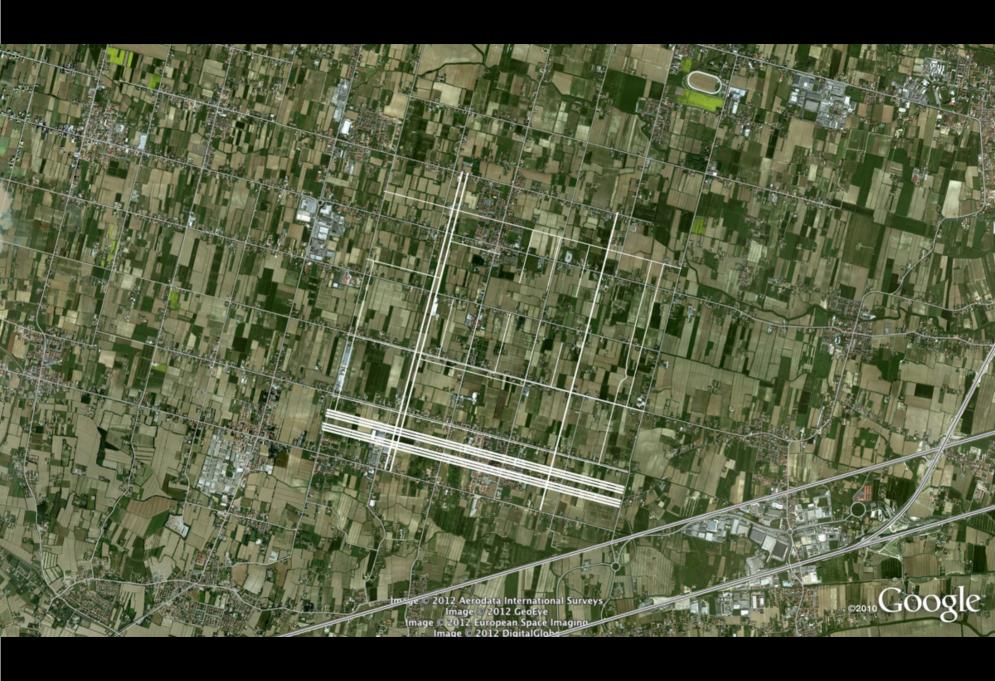


Squared Section of 3,2 km for each side: the whole surface is 1.024 hectares. 1.400 families lives there with a density of 5/7 inhabitants/hectare.





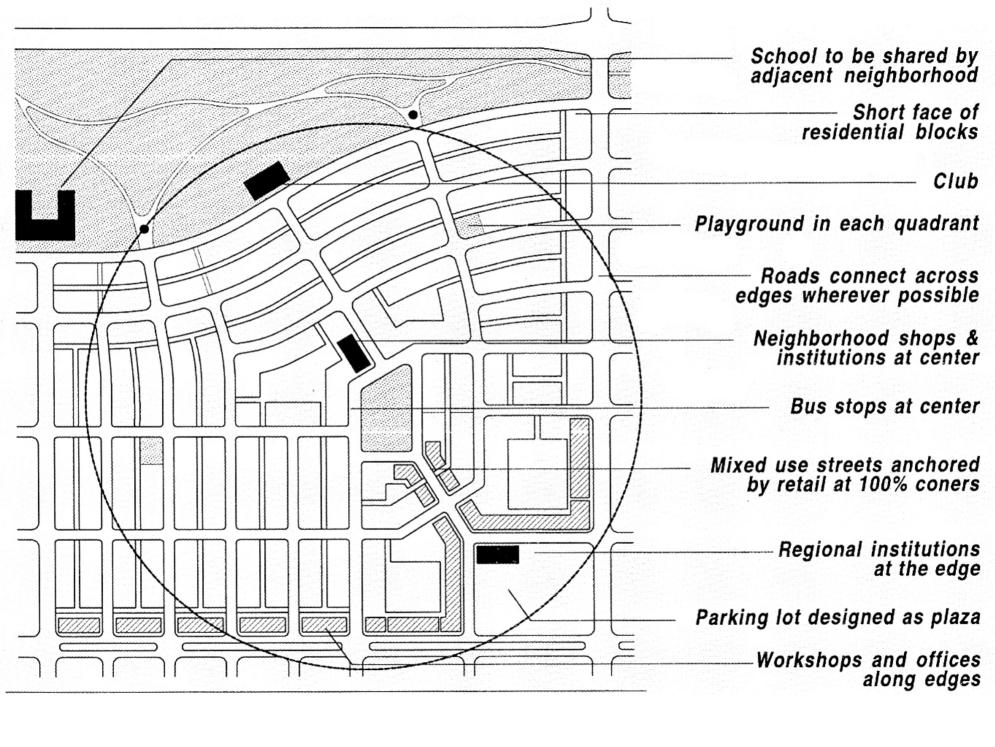


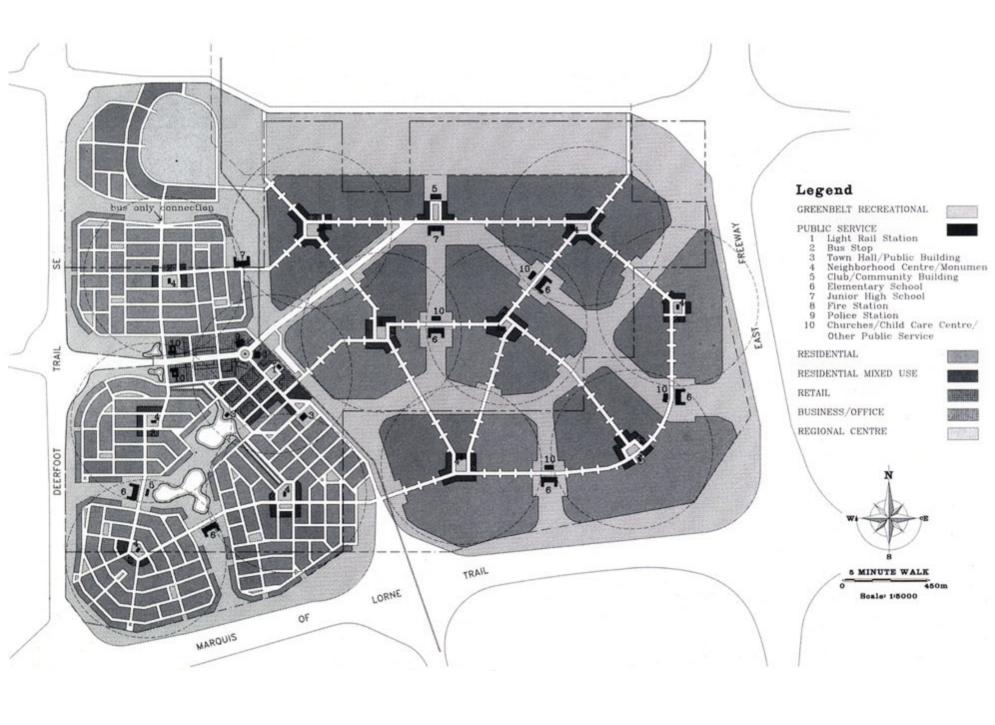


The minimum plot size is 1 acre (4.046,87 sqm for a plot conventional dimension of 63x63 mt).

8. Retrofitting programs for insurgent outcropping Western Cities

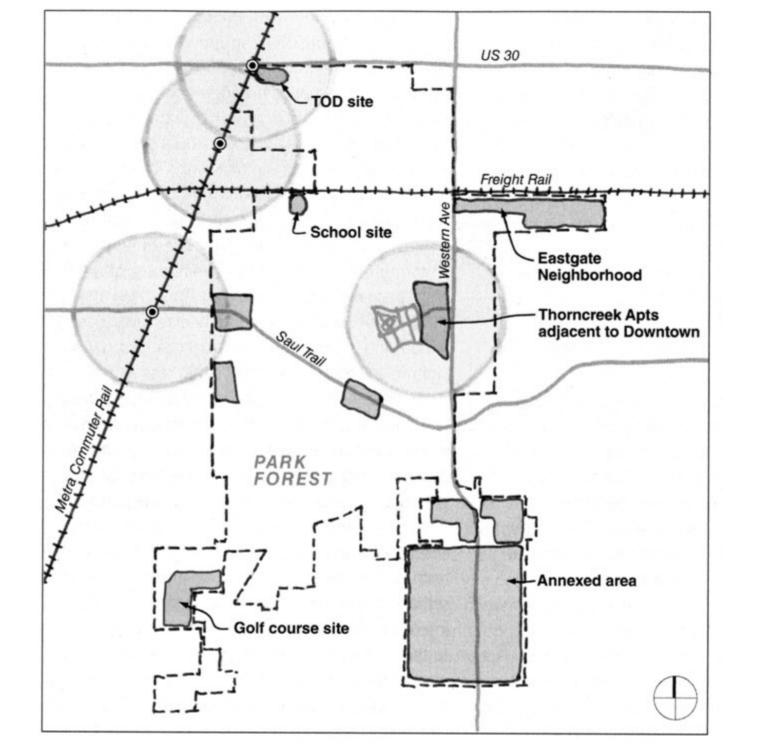
Some application of "The Neighbourhood Unit" (Clarence Perry, New York 1927)

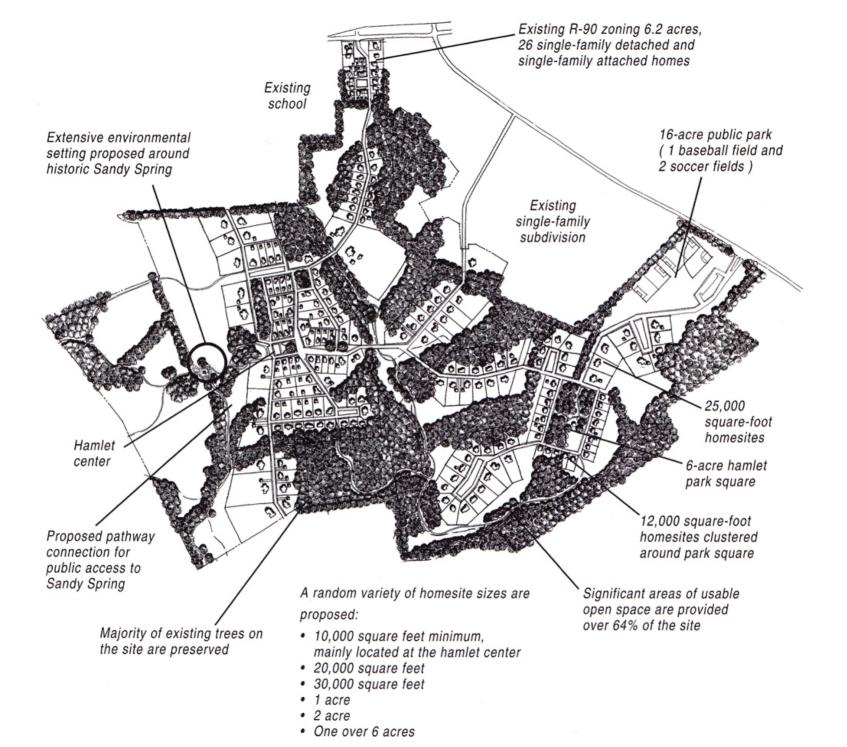








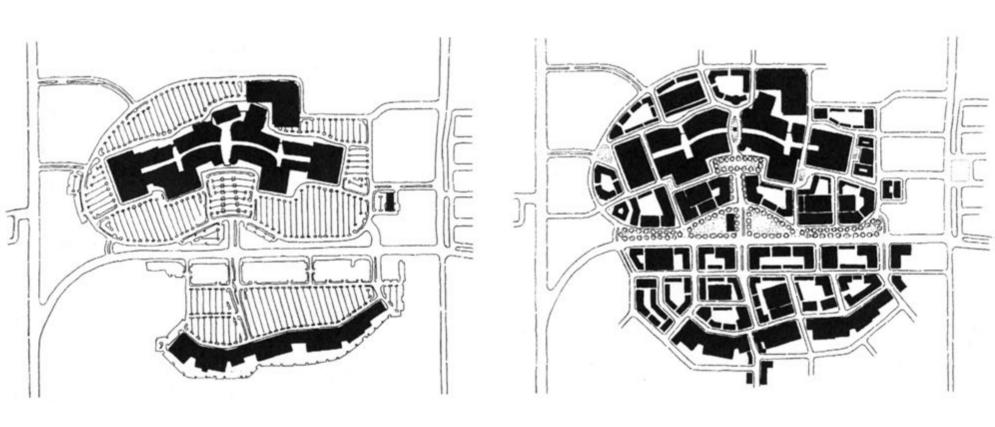




Broadway Plaza (San Francisco)

Diagramma progettuale della società DPZ per la riorganizzazione degli spazi adiacenti ad un grande centro commerciale (in attività) negli Stati Uniti.

L'intervento traduce una strategia di rafforzamento di questa centralità urbana insorgente e prevede l'inserimento di spazi ed attività di servizio molteplici e complementari a quelle già presenti nel contenitore commerciale principale, nonché la conseguente riorganizzazione delle aree di parcheggio.

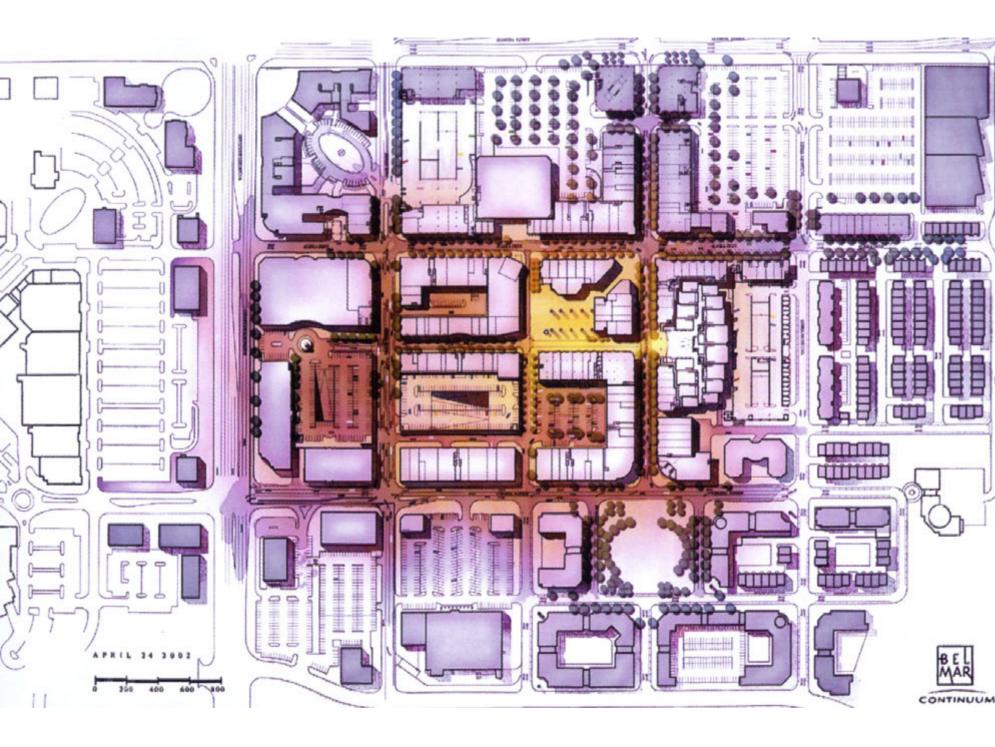


Belmar (Lakewood, Colorado)

Laddove si riconoscano segnali incipienti di crisi, la rifunzionalizzazione di alcune grandi strutture commerciali può divenire occasione per interventi più radicali di ricomposizione urbanistica volti a costruire nuove forme di centralità nel territorio.

Nel recente progetto per Belmar (Lakewood, Colorado) di Elkus/ Manfredi Architects e Civitas Inc. la dismissione di un grande mall commerciale diviene occasione per realizzare un nuovo centro urbano: vengono ridefiniti i rapporti fra edifici e spazi aperti, ricreando un diverso paesaggio urbano in grado di consentire la pedonalità diffusa e la possibilità di svolgere molteplici e diverse attività.





Westwood Station (Westwood, Massachusetts)

La dismissione di insediamenti industriali di consistenti dimensioni può costituire un'occasione interessante per organizzare la ricomposizione di un territorio.

Nel progetto di Elkus/Manfredi Architects per la riconversione dell'area di Westwood Station (Westwood, Massachusetts) la presenza dell'infrastruttura viene assunta come condizione essenziale per la realizzazione di una nuova centralità urbana a servizio degli insediamenti residenziali circostanti.

Servizi ed attrezzature di interesse collettivo, attività commerciali, uffici, attrezzature sportive e ricettive, aree di parcheggio (oltre ad alcune nuove residenze) costituiscono le dotazioni necessarie alla formazione del nuovo centro, in cui lo spazio aperto garantisce la possibilità di svolgimento delle diverse pratiche pedonali e la stazione ferroviaria consente un'accessibilità estesa anche a territori ed insediamenti non immediatamente contermini.



Mashpee Commons (Mashpee, Massachusetts)



Urban Genetics in Saint Denis

(Edoardo Arroyo, 1999)

