

Composition [#2]

Thursday, April 19th, 2012 Andrea Di Giovanni

Contents (of two lectures)

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Lecture references

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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





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.





















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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.





(Foster + Partners)









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. A typical neighbourhood in Tianjin Eco-city combines high-rise housing with a school and community facilities.

100m





用地平衡表 項目 49.40 数值 百分比 规划总用地 127205. 一层住区用地 100286.7 100.00 62374.7 1住宅用地 62.20 10700 2公共服务设施用地 10.675 [1] 教育 [2] 医疗卫生 96 [3]文化体育 140 [4] 社区服务 864 [5]行政管理 2 700 [6]商业金融 -900 [7]市政公用 1100 [8]展示中心 6900 3道路用地 8912 8.89% 4绿烛用烛 m' 18300 [1]公共绿地 7800 7.78 -[2]附属绿地 -10500 10.475 二其他用地 -26919 1城市道接用地 15836 2公共课地 11083 -

項目		单位	载值
总建筑图积		z '	187938
¥4	1地上建筑图积	2'	13927
	[1]规划住宅建筑面积	n'	13368
	[2] 规划公建建筑图积	a'	559
	2地下建筑面积	11	48662
住宅建筑医积净密度		a'/a'	2.1
住宅建筑净密度		4	10.87
建筑高度			74.1
人口毛密度		人/h=*	326
居住户载		户	116
Жф	60-90m'	户	47
	90-150m'	户	690
居住人数		人	3268
户均人口		N/P	2.1
建筑密度		5	10.40
春秋室			1.4
人均穩地		D '	2.39
绿地车		5	44, 175
机动车停车位		辆	1024
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彩色总平面图

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





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.











COUNTRY

Corretto principio di espansione delle città.



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.





1km



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.






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.









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.









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





media valley



R & D



education

CBD



residential

retail

Programmatic bands were interlaced to create OMA's plan.

A typical Songdo neighborhood features semi-private parks within housing blocks. The blocks are then grouped around a larger public park.





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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.





1km







ONGAR

A NEW SATELLITE TOWN OF 60,000 POPULATION

all'a	EXISTING BUILDINGS
(and the second	HOUSES GARDENS & FLATS
mł-	SCHOOLS
-	SHOPS & COMMERCIAL BLDGS
-	PUBLIC BUILDINGS
	INDUSTRY
S. Cha	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 No.4 11750
	11500 No.5 8600
	9,400 No.6 8,200
IN OLD ONGAR & ELSEWHERE - 550	

TOTAL 60.000 NET RESIDENTIAL DENSITY 30 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.







+ 1km



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).





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.

















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



868. Population: 26.000



1884. Population: 7000



1985. Population: 75.000

Urban form evolution



1933. Population: 14.000



2002. Population: 152.000

Urban form. The future - 2008+ - 170.000 population

Basingstoke East Vision & Mplan

Urban Design and Architecture

Manual Contraction of the Contra

4

4.1: Rendered Masterplan

Basingstoke East - Phase1 -Design Framework

Masterplan design

Land use

- 3 Centres of activity
- Create a community
core
- Distribute local facilitie

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 route



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
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)













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.



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.





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)

