

Politecnico di Milano School of Architecture and Society

URBAN PLANNING STUDIO - 095990

Second semester, first year

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UNDERSTANDING THE CITY

THE CITY AS A SYSTEM

Four stances in European theorie of urban planning in the twentieth century:

- **R-** Functionalist
 - Humanist
 - Systemic
 - Formalist

These four stances in European urban planning are not in themselves precise and internally consistent theories, but inclinations, predispositions, directions

Of the four orientations, functionalism with the longest history, has been the most comprehensively outlined
Its origins are in the Bauhaus and the work of Le Corbusier

Its credo is the ATHENS CHARTER of the Congres Internationaux d'Architecture Moderne (CIAM) issued in 1993

Workability and competence are its goals

It is the equivalent, in urban planning, of the modern movement in architecture

It originated in the 1920s and dominated design theory into the 1950's, evolving in response to criticism and changing conditions

Functionalism envisions the city as a collection of uses to be accomodated: residence, work, leisure, and the traffic systems that serve them

In early functionalist thought the city was characterized as a machine, in later thought, as a complex organism and as a network or constellation of community centers linked to and directed to central core

A functionalist city is equitable. It does not favor or neglect social groups Everyone benefits from adequate sunlight, fresh air, and access to open space

Functionalist theory treats residence, work, and leisure as discrete elements

Activities should not mix

ZONING IS A KEY ELEMENT OF THE FUNCTIONALIST CITY

Activities can proceed with little or no interference from other activities

In functionalist urban planning, organizing functional relations in a two dimensional plan usually takes precedence over organizing other relations

The graphic of functionalism is always based on SCHEMES and PLAN DRAWINGS

Though functionalist theory calls for the separation of activities, in one locale, the heart or core of the city, these must be commingled.

URBAN CENTER SHOULD ENABLE PEOPLE TO MEET ONE ANOTHER TO EXCHANGE IDEAS

URBAN CENTER SHOULD ENGENDER CIVIC CONSCIOUSNESS

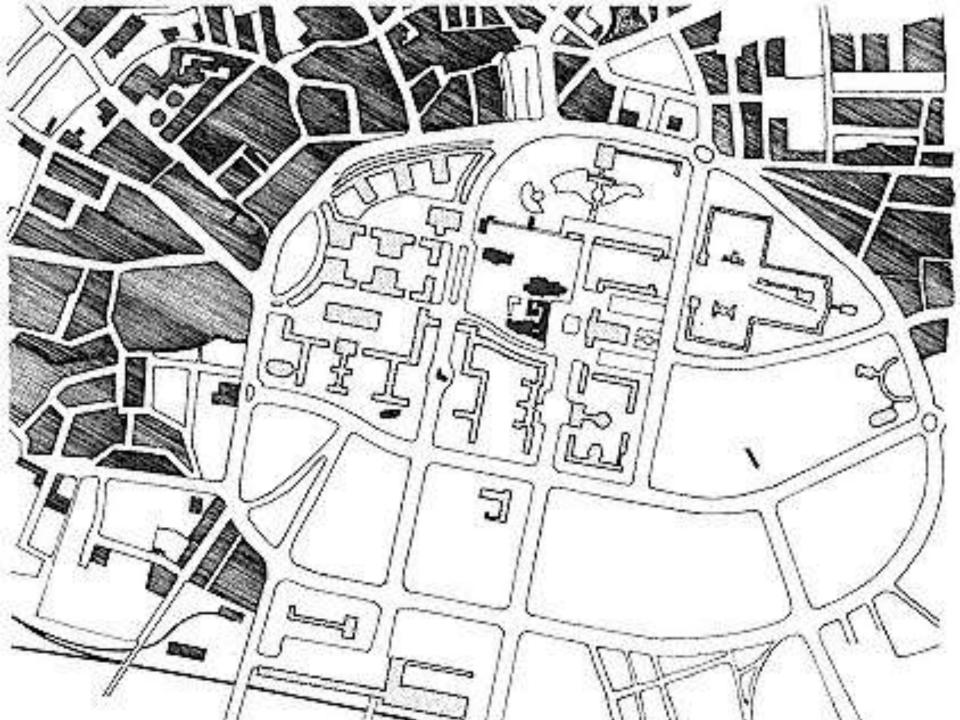
Necessary to the success of the urban center is the absence of vehicular traffic, for the urban center is the domain of pedestrians

Orthogonal planning characterized most functionalist urban design

The quality of functionalist design depends on how competently it accommodates needs and activities and on how well it uses light, space and greenery, the ingredients of and urban plan that enhance daily experience.

Open space is highly valued

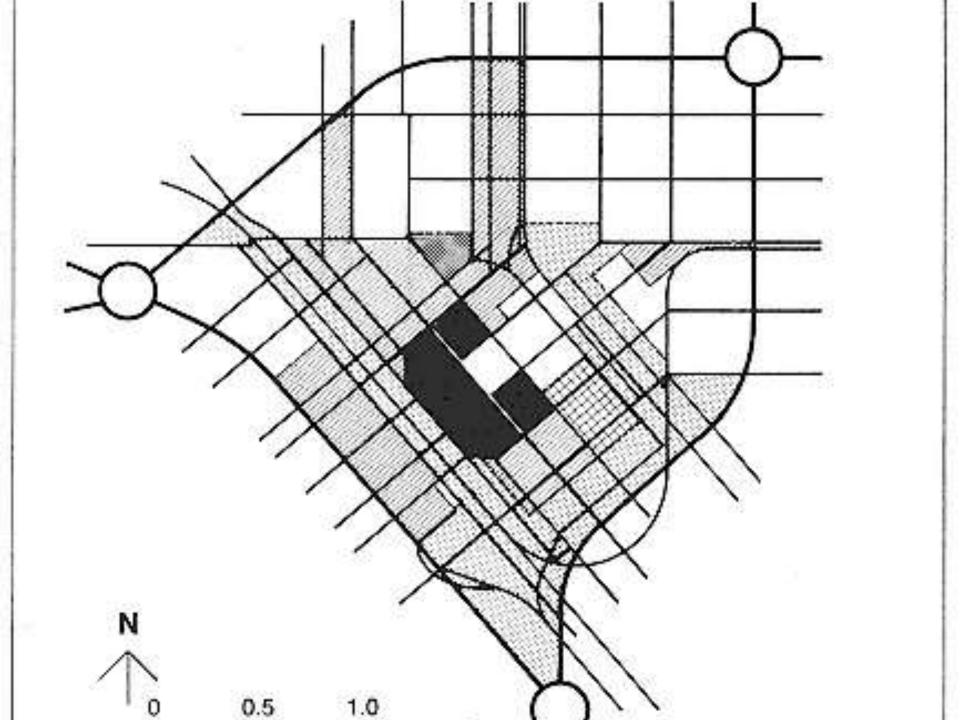
Historically significant buildings should be preserved for their educational value, but the layout of historic districts should not be the basis for planning contemporary towns

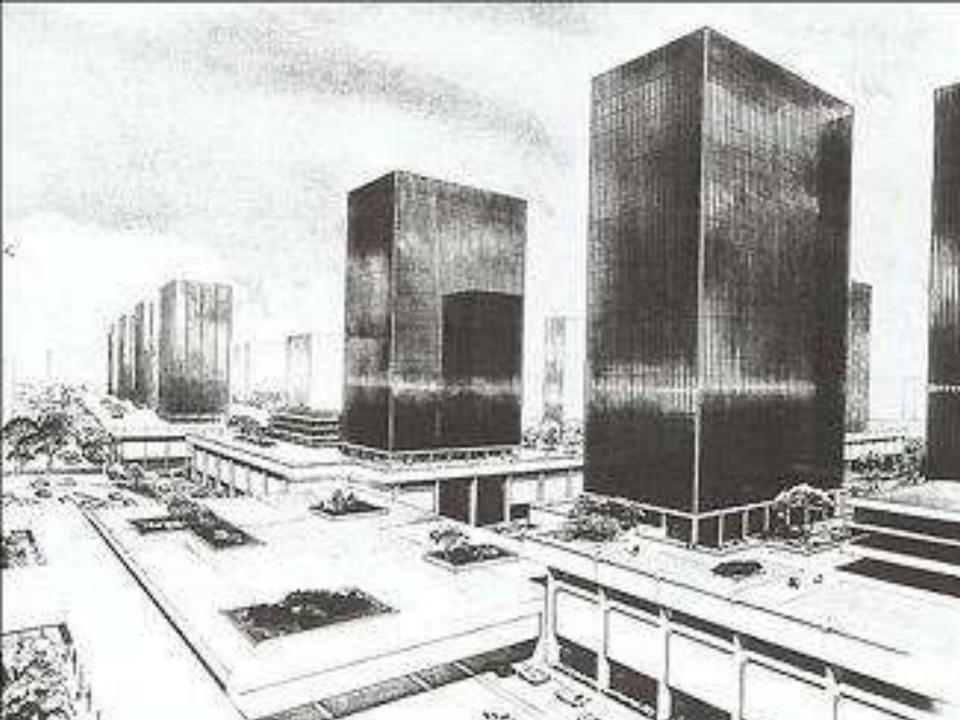


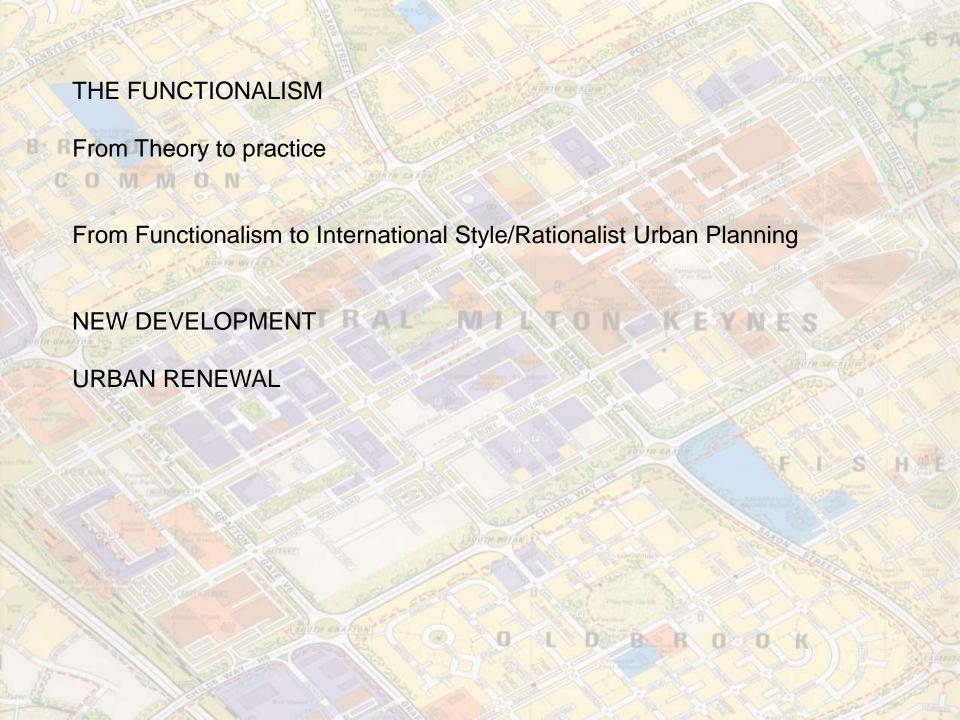
Le Plan Voisin

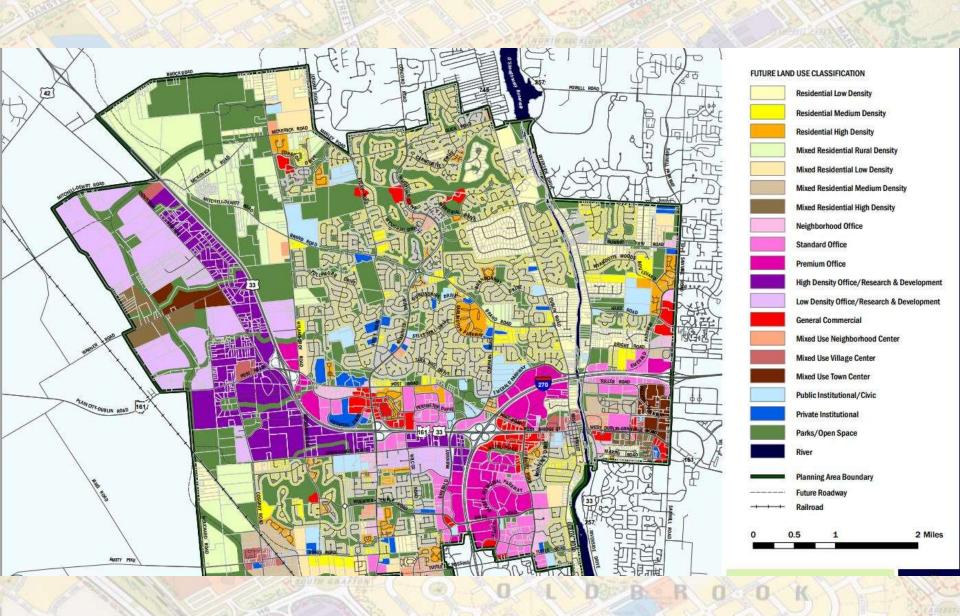


En 1925, avec le soutien du constructeur automobile Voisin, Le Corbusier propose le "Plan Voisin" pour Paris. À droite, on reconnaît l'île de la Cité.



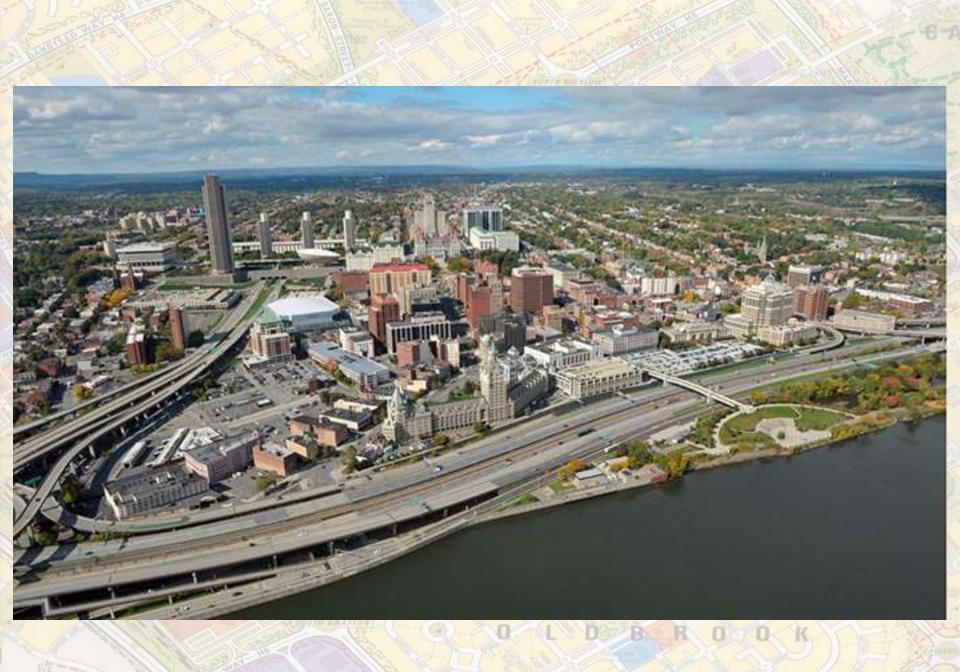


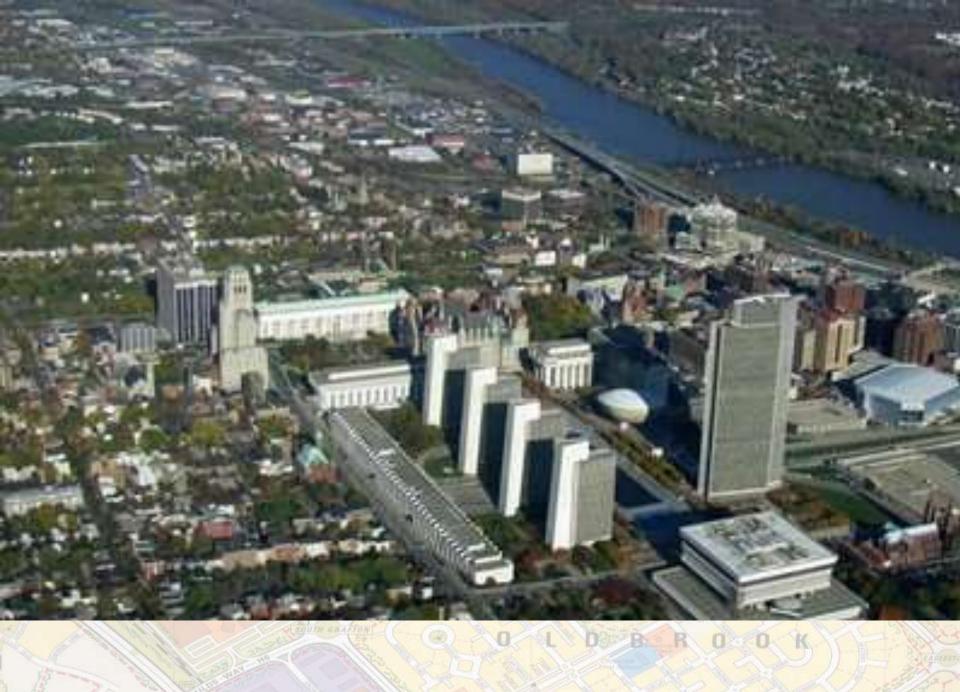








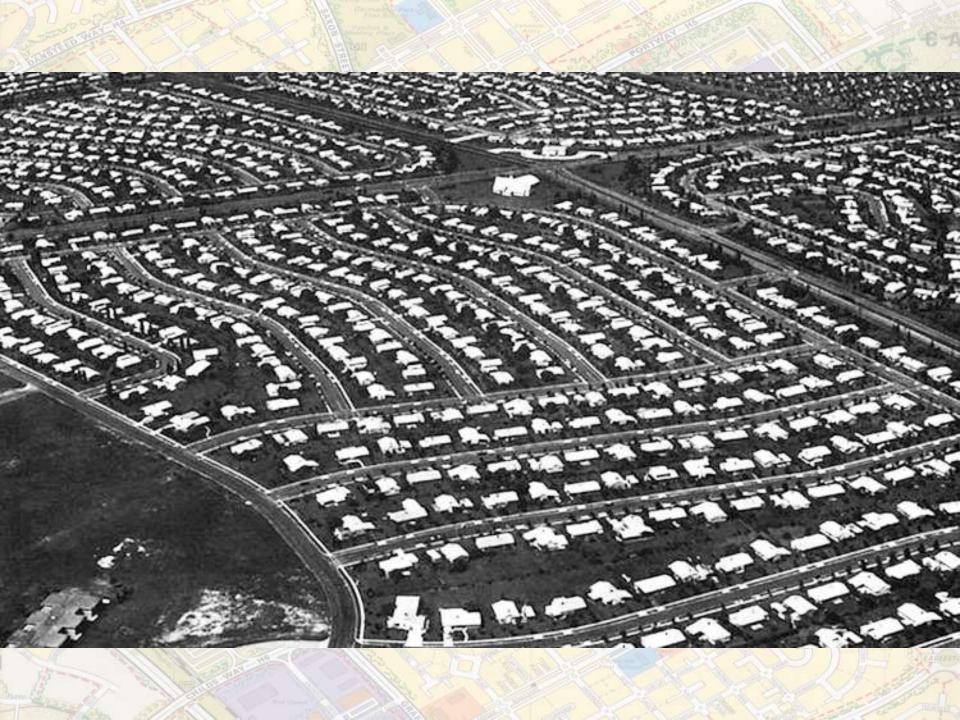








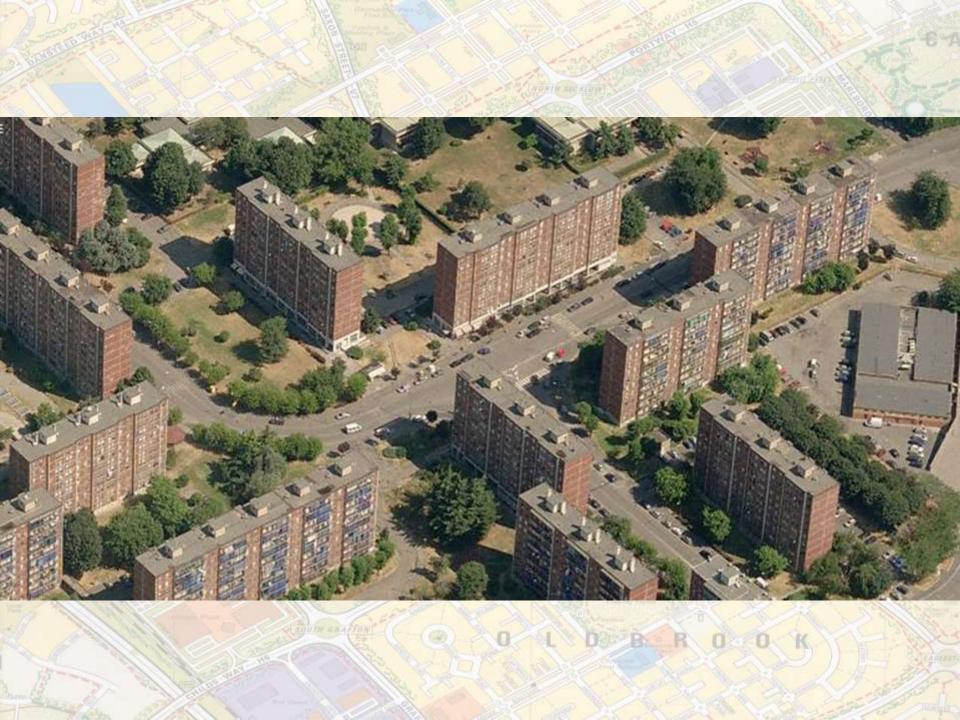


















CHANDIGARH 195

Sector plan made of 4 megablocks 16 superblocks

Pre-existing Urban Village 4 Super Blocks

Megablock perimeter roads

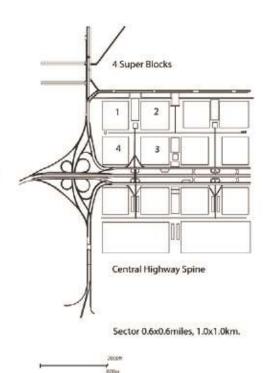
Sector 1.5x 1miles, 2.4x1.6km.

Central Green Square

2000H 600m

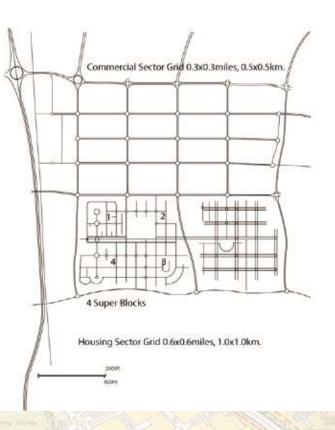
BRASILIA 1956

Sector plan made of 4 megablocks 16 superblocks



MILTON KEYNES 1968

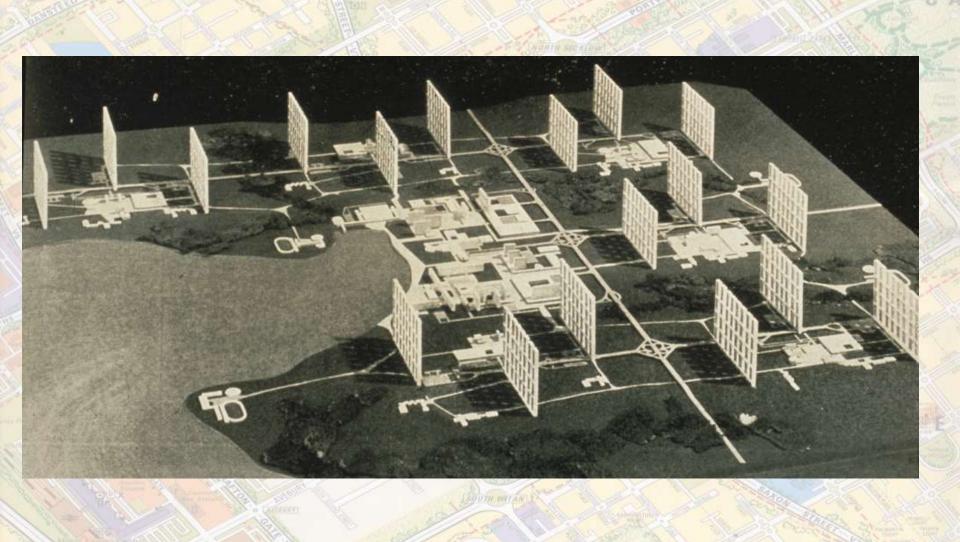
Sector plan made of 4 megablocks 16 superblocks



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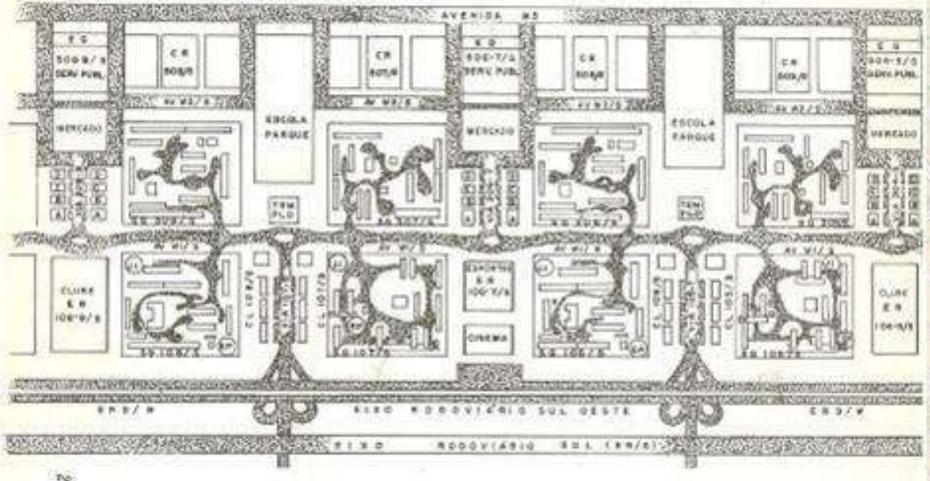
O L D B R O O K

Super Andrew con engredormato activisto, CAMPUNET women - which is intimated entraces a proce demention a e' soule mountal 田 ACTOMOVED & SMIRTS Par inter



O L DOB R O O K

ESQUEMA DA AREA OU UNIDADE DE VIZINHANCA

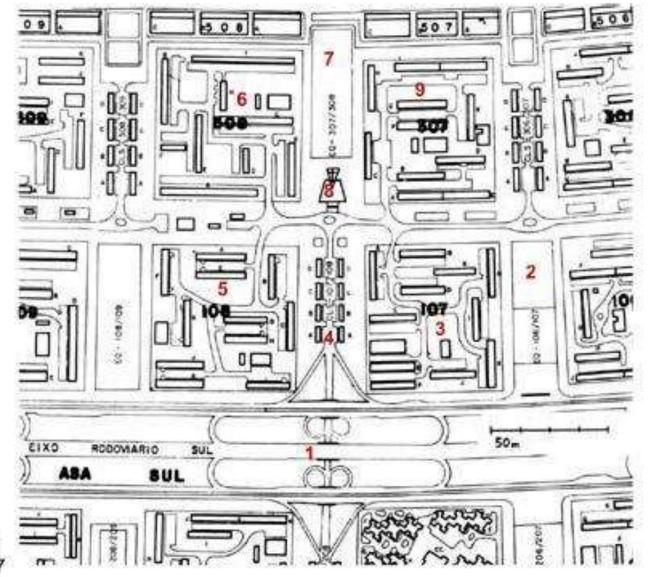


OL- SARDIN DE INFANCIA 8.9- BUYER BURGER

EF - EECGLA FRINANA.

A. R.C. C. E - REYOYER DE CONCOCIO LOCAL BA- BLOCOF OF APARTAMENTOS

O L D B R O O K



Implantação

- 1. Eixo rodoviário norte-sul
- Entrequadra Sul 106/107
- 3. Superquadra Sul 107 / 4. Comércio Local Sul 107/108 / 5. Superquadra Sul 108
- Superquadra Sul 308 / 7. Entrequadra Sul 307/308 / 8. Igreja / 9. Superquadra Sul 307





Chandigarh, maggio 1952. Piano urbanistico definitivo della prima fase di realizzazione che comprende abitazioni e servizi per 150 000 abitanti e il Campidoglio

- 1 Parlamento
- 2 Segretariato

- 3 Campidoglio 4 Corte di giustizia 5 Università

- 6 Stadio 7 Mercati generali
- B Stazione ferroviaria
- 9 Centro commerciale
- 10 Municipio 11 Istituto di ingegneria
- 12 Residenza del Primo Ministro
- 13 Residenza del Capo della Magistratura
 14 Biblioteca
- 15 Museo
- 16 Scuola di arti applicate 17 College statale maschile 18 College statale ferminile
- 22 Sarai

odontoiatrico

- 20 Ospedale 21 Maternità
- 23 Teatro 24 Istituto Politecnico

19 Istituto superiore e ospedale

25 Croce Rossa 26 Boys Scouts



Vie principali (V2) Vie secondarie (V3) Strade locali (V5+V6) Spazi aperti e parchi Affari e commercio Zona industriale

Scuole superiori Centri sanitari Centri comunitari

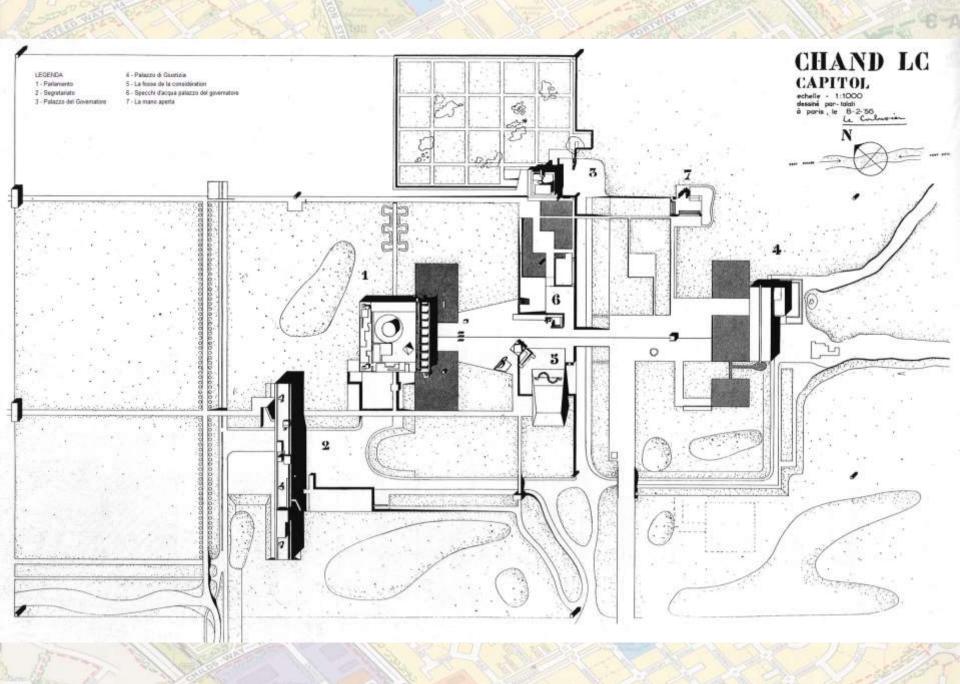
Piscine

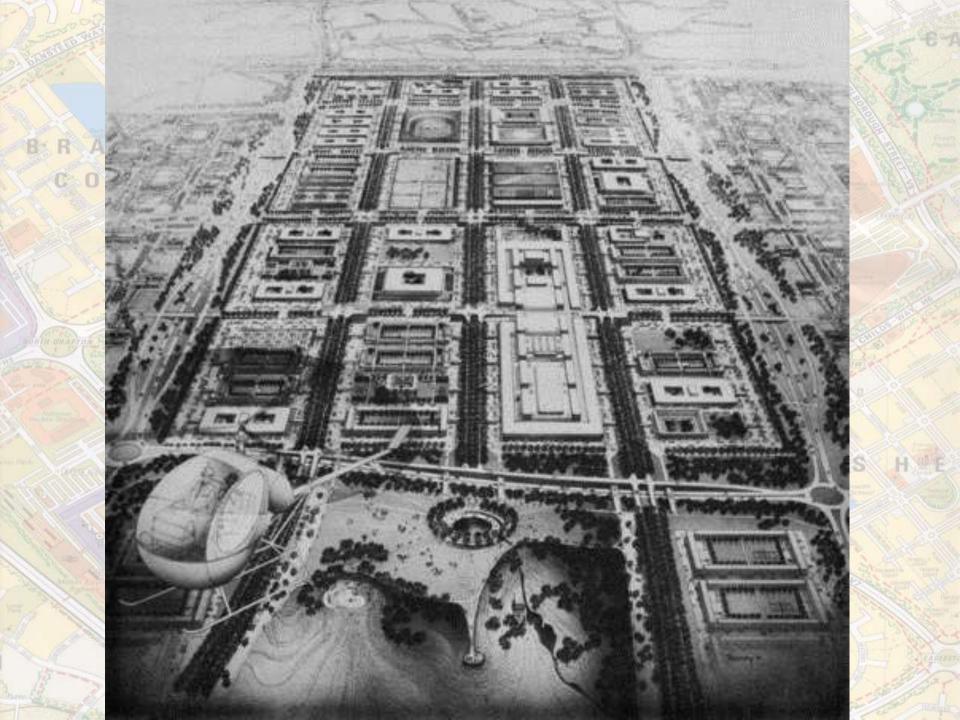
Numeri dei settori Spazi aperti interni

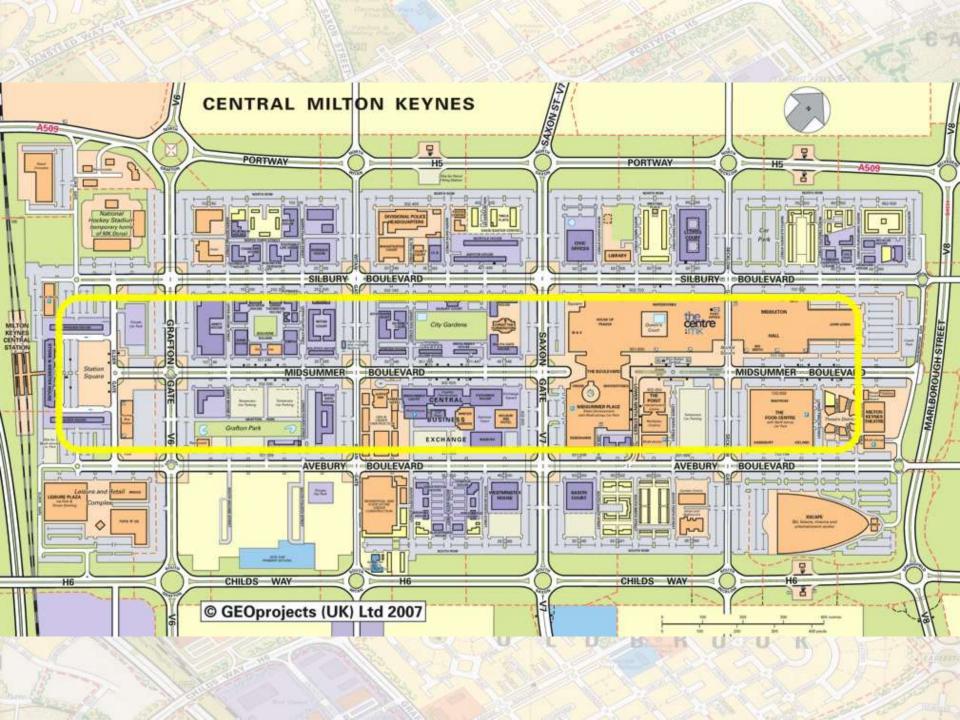
Scuole elementari

Scuole medie



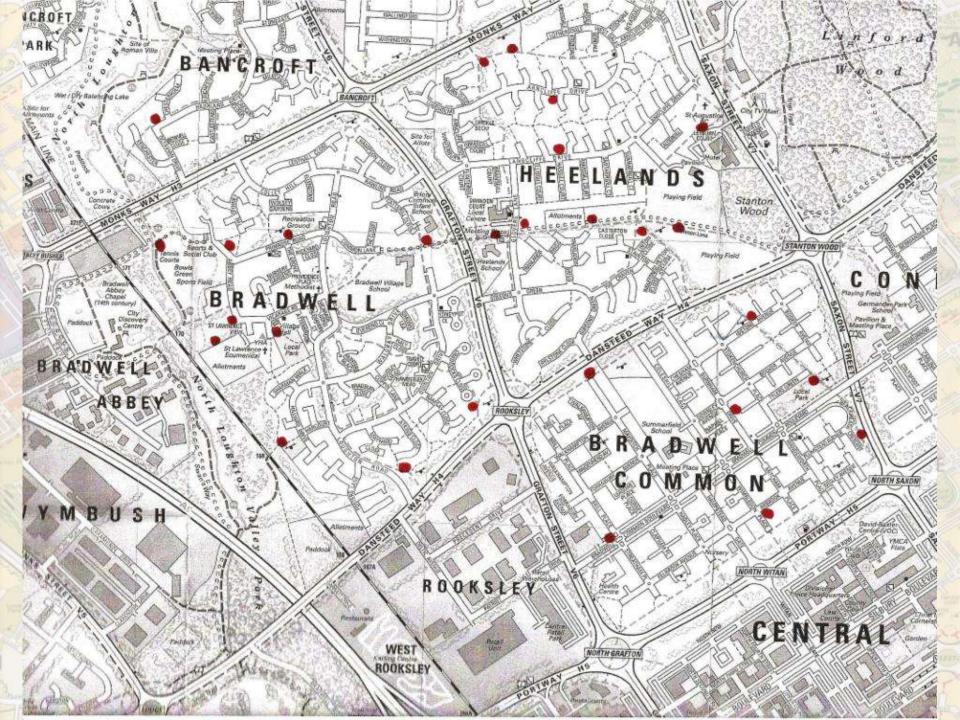


































They've put up gleaming stone and glass file cabinet housing which breeds delinquency and crime.

They've built spacious green park areas that are avoided by everyone but bums and hoodlums.

They've condemned and destroyed entire city blocks that are not slums, but attractive places to live.

They've zoned our cities into intolerable patterns of dullness.

Jane Jacobs says this and much more in her explosive new book, The Death and Life of Great American Cities. Mrs. Jacobs shows that the city

planners have failed because they have overlooked the realities of urban life, and stripped our cities of the vitality and diversity which make them exciting places to live. She offers concrete, practical alternatives that can save our cities from the blunders of orthodox planners.

Harrison Salisbury of the New York Times hails this book as "the most refreshing, stimulating and exciting study of this greatest of our problems of living which I've seen. It fairly crackles with bright honesty and good sense."

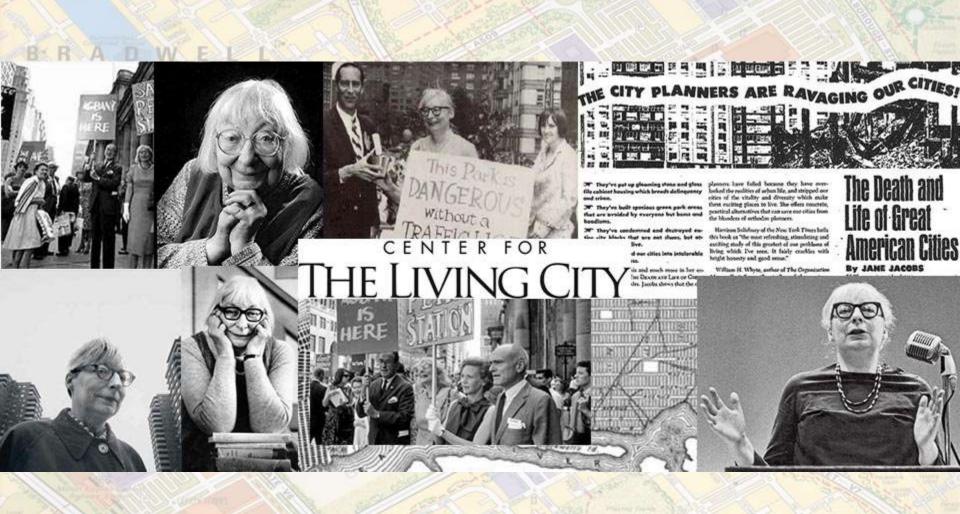
William H. Whyte, author of The Organization Man, calls it "magnificent. One of the most remarkable books ever written about the city."

The Death and Life of Great American Cities

By JANE JACOBS

\$5.95, now at your bookstore

RANDOM HOUSE



O L D B R O O K



THE HUMANIST STANCE

It is a collection of intentions, techniques, and design ideas offered by a diverse group of proponents

It emerged in the 1950s and 1960s not as a new theory but as a reaction to the unsatisfactory results of functionalist thinking and design

Among those representing humanist attitudes were the British townscape school, disaffected CIAM members who took the name TEAM 10 and certain Dutch Architects

The good city is a collection of enclaves, shaped by and reflect the individuals and groups who inhabit the city

City should not be a fait accompli but that people should specify and help to create what they want

L D B R O O K

THE HUMANIST STANCE

Decisions are based on users' needs and circumstances rather than on concepts

Decision making tends to be INCREMENTAL rather than set by a master plan. Its goal is to CATALYZE and NOURISH rather than to direct

The humanist urban designer pays attention to small – scale elements and informal ordering systems, avoiding large – scale, superimposed geometries

O L D B R O O

Things are made by and for people

Humanist designers advocate a mixed use of the urban environment.

Functional zoning and functional distinctions are not the norm.

Activities and elements overlap and are strictly interwoven



C O M M O N

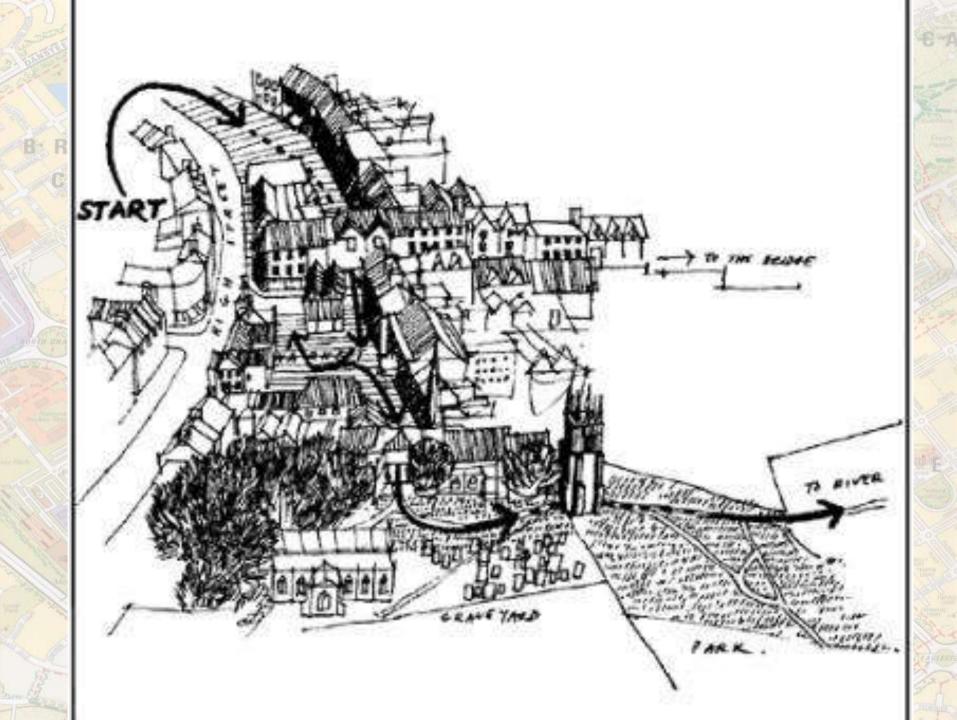
Streets are no longer for cars.

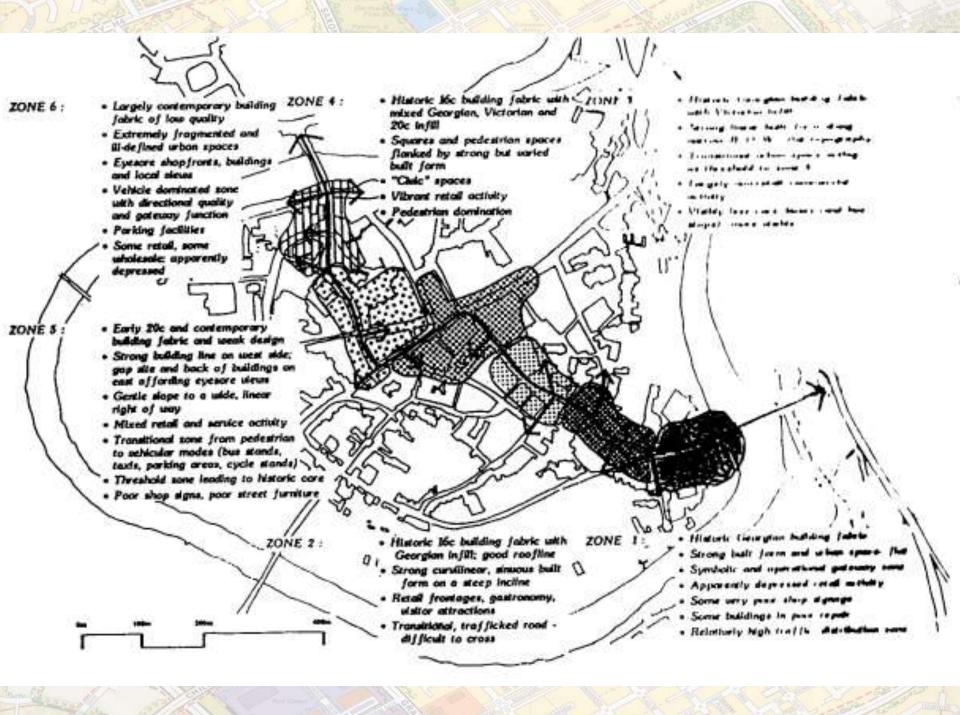
Streets are domesticated and become LIVABLE places for people

Humanist designers find lessons in the past and in vernacular tradition

CENTRAL MILTON KEYNES

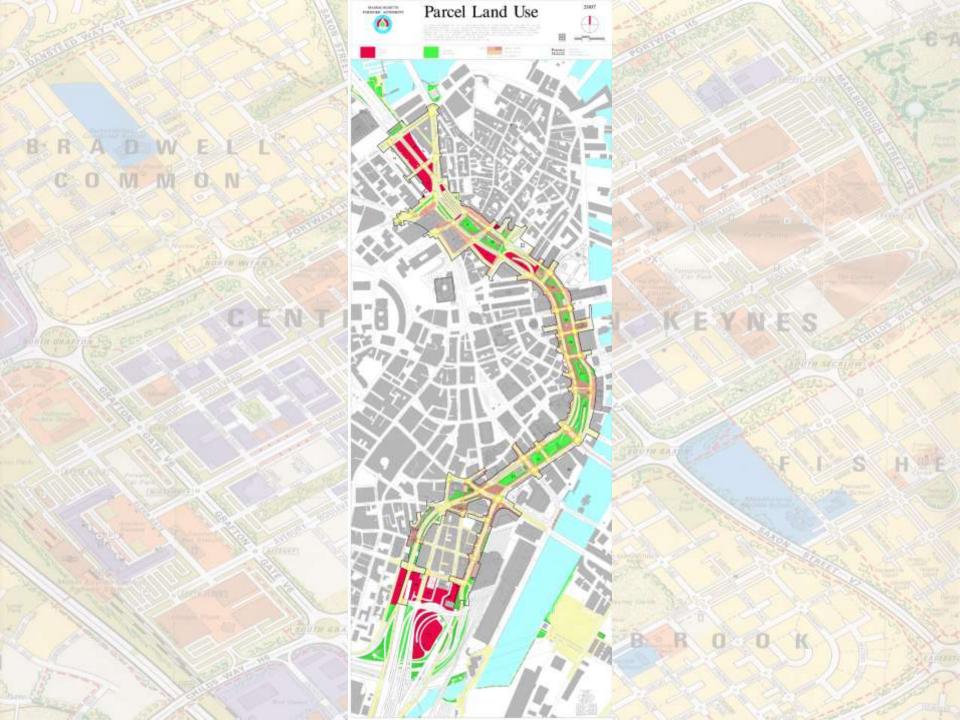
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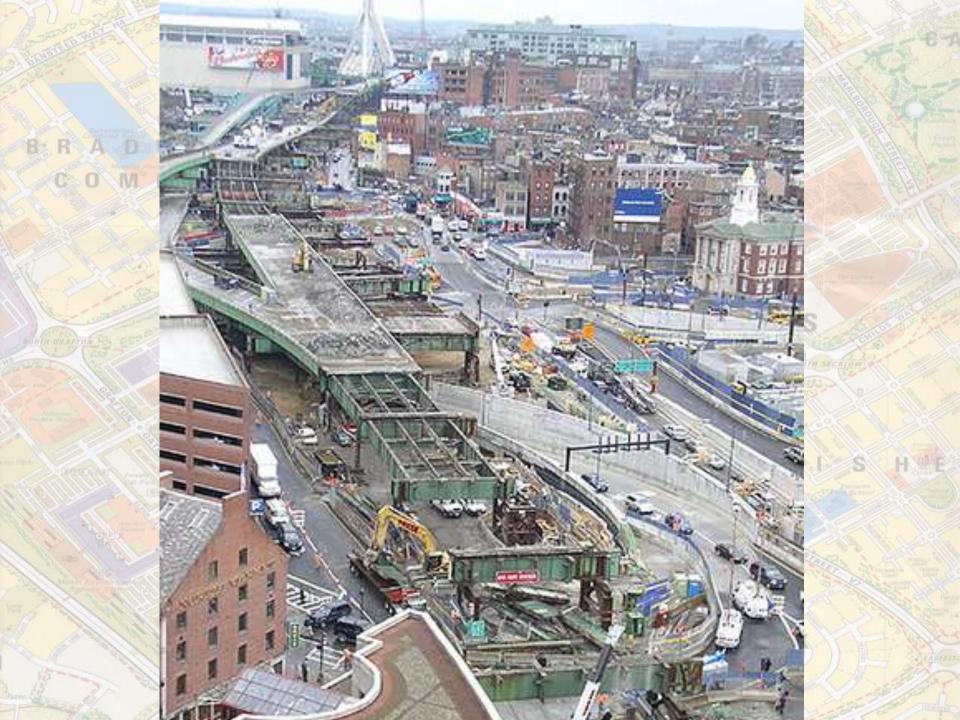


















THE SYSTEMIC STANCE

The systemic approach emphasizes large-scale elements of urban design and planning and seek and overall order for the urban environment.

Systemic theories accept urbanization and increasing complexity as inevitable

The key is the organization of the system, not of single elements

Diagrammatic clarity in transportation systems

Physical armature ('support') to which detachable units are added

The city is an iinterlocked system of movement corridors and structural armatures supporting housing and other uses

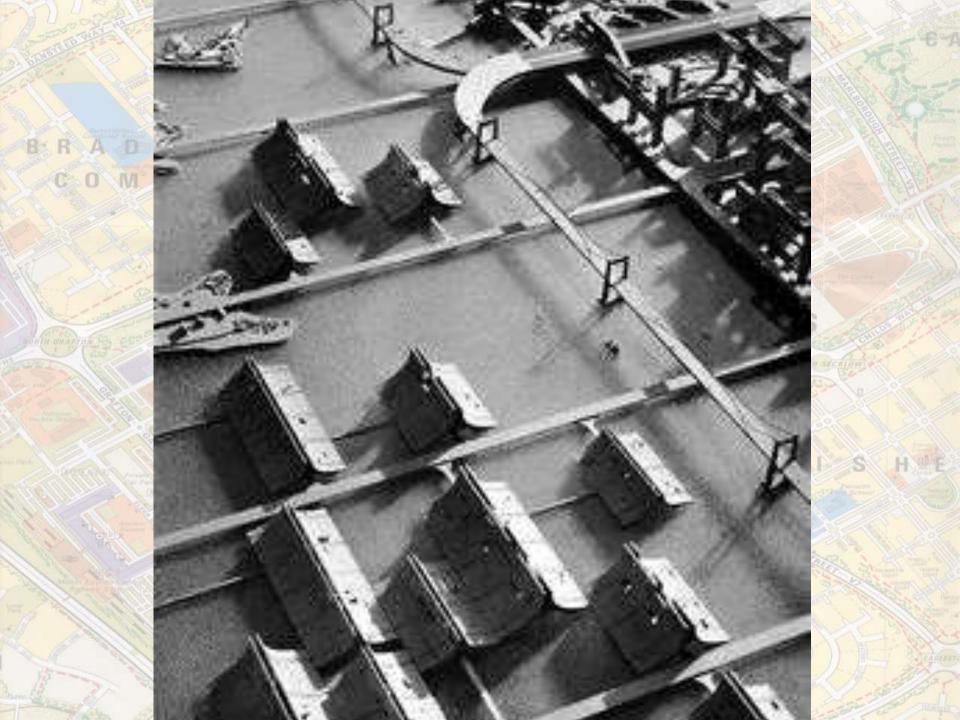
THE SYSTEMIC STANCE

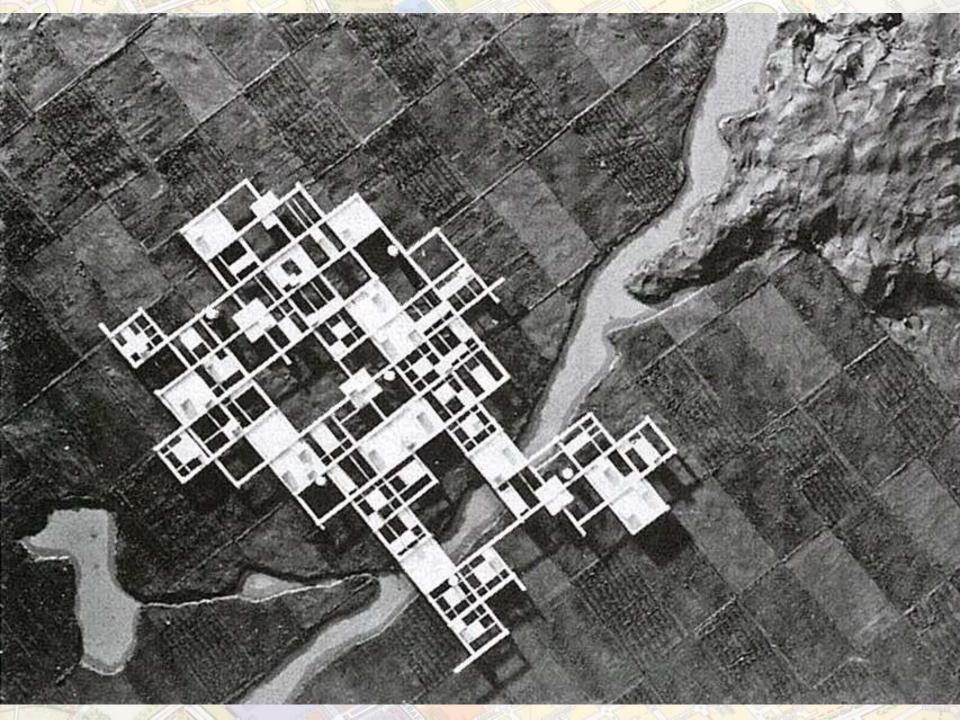
Overall urban ordering is necessary because of the demands of vehicular traffic, the dependency of modern life on communications, and the need for the rapid, continuous production of building elements

Efficiency in transportation is achieved by separating modes of transportation

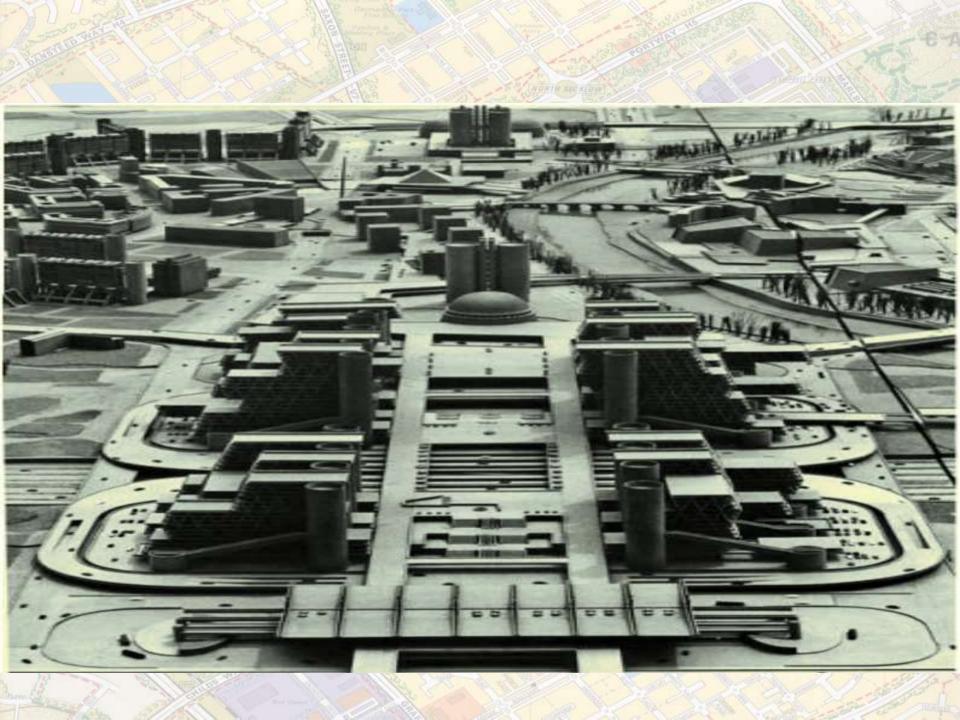
Industrial aesthetic William W













O L D B R O O K



