### **ARCH 355 URBAN DESIGN PROCESS**

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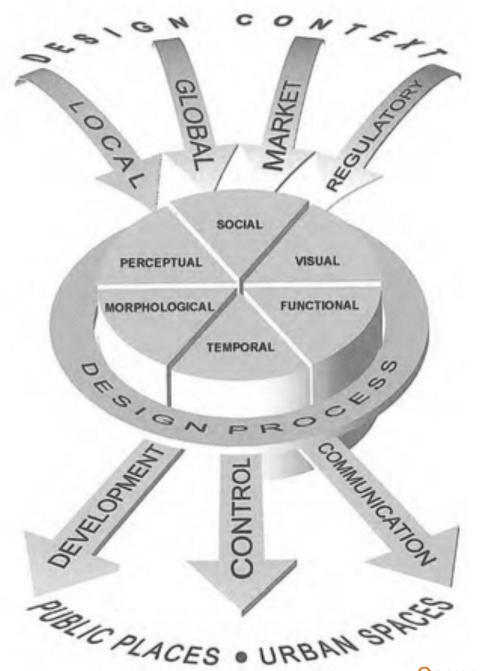


# **PUBLIC PLACES – URBAN SPACES** The Dimensions of Urban Design

Matthew Carmona, Tim Heath, Taner Oc and Steven Tiesdell

**Architectural Press, 2003** 







## Week 2: Lecture 1

**PART I** 

#### THE CONTEXT FOR URBAN DESIGN



#### **PART I**

#### THE CONTEXT FOR URBAN DESIGN

## 1. Urban Design Today



## **Urban Design**

"making of places for people"

"the process of making better places for people"

- Stressing that "Urban design is for and about people"
- Emphasizing "the value and significance of 'place
- Recognizing that urban design operates in the 'real' world, with its field of opportunity constrained and bounded by economic(market) and political(regulatory)forces
- Asserting "the importance of design as a process"



- The term first has started to be used during 1950's to replace the term 'civic design' that "focused largely on the siting and design of major civic buildings"
  - Civic building: city halls, opera houses, museums and their relationship to open spaces.

 Urban Design "has become primarily concerned with the quality of the public realm - both physical and sociocultural – and the making of places for people to enjoy and use".



#### **URBAN**

"characteristics of towns or cities"

+

"the village and hamlet"

#### **DESIGN**

"activities as sketching, planning, arranging, colouring and pattern making"

÷

"effective problem solving and/or the processes of delivering or organising development"



















"It is frequently easier to say what urban design is **not**, than to say precisely what it is.

It is not, for example, architecture, civil or highway engineering, landscape architecture, estate management, or town planning."

Gosling and Maitland (1984) describe it as the 'common ground' between architecture and town planning

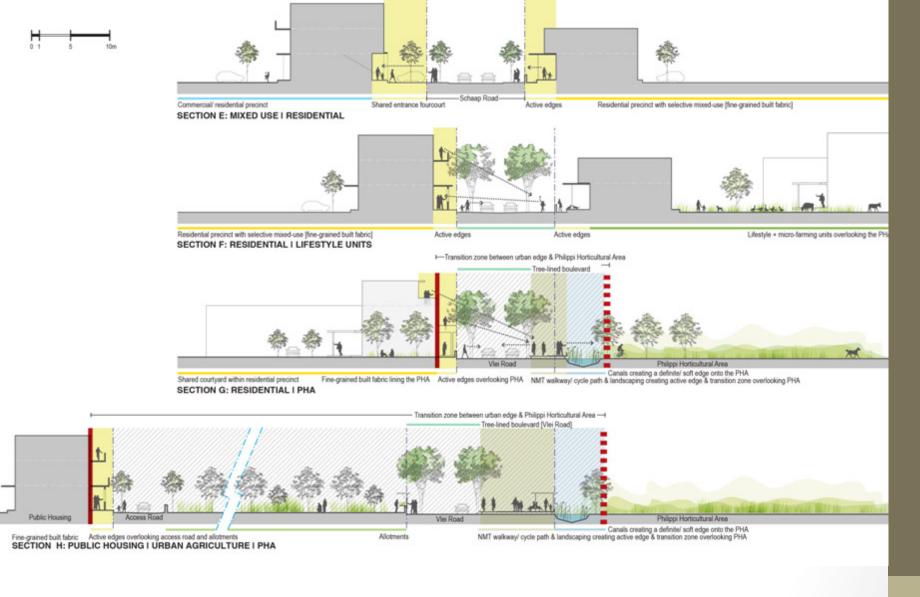


UK's Social Science Research Council located urban design at

"the interface between architecture, landscape architecture and town planning, drawing on the design tradition of architecture and landscape architecture, and the environmental management and social science tradition of contemporary planning"

(from Bentley and Butina 1991).

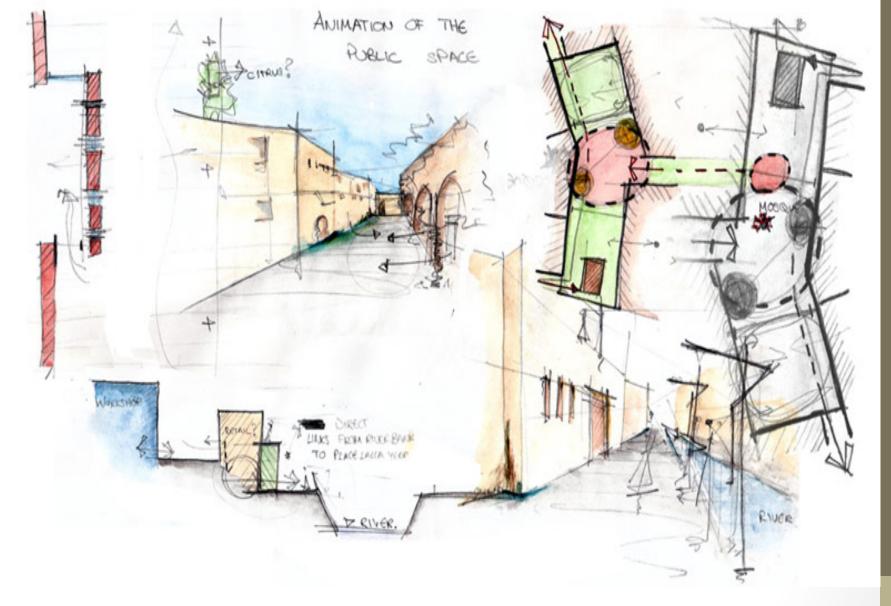




Urban design: an intermediate scale between planning (the settlement) and architecture (individual buildings).

Source: http://citythinkspace.com/what-we-do/





Being aware of the relationship of the parts to the whole, and the whole to the parts

Source: http://lino-bianco.com/majorprojects/images/mp4/lsketch.jpg





Francis Tibbalds (1992, p. 9) stresses that 'places matter most'

Source: http://www.placemakers.com/wp-content/uploads/2015/05/Salamanca-3.jpg



#### Traditions of thought in urban design

'visual-artistic' tradition

"the visual qualities of buildings and space"

'social usage' tradition

"primarily concerned with the social qualities of people, places and activities"



#### The Visual-artistic tradition in urban design

"Earlier, more 'architectural' and narrower understanding of urban design"

"Focused on the visual qualities and aesthetic experience of urban spaces, rather than on the cultural, social, economic, political and spatial factors and processes contributing to successful urban places."

Lacking privacy or of opportunities for personalization

Focusing on pictorial composition



#### The Social usage tradition in urban design

"emphasized the way in which people use and colonise space"

"It encompassed issues of perception and sense of place"

# Remember Lynch?

"instead of examining the physical and material form of urban environments, Lynch suggested examining people's perceptions and mental images".



"Over the past twenty years, the concept of urban design that has become dominant is one of making places for people."

This is 'contemporary urban design' approach

"It focuses on the diversity and activity which help to create successful urban places, and, in particular, on how well the physical milieu supports the functions and activities taking place there."



public face of buildings the spaces between frontages the activities taking place in & between spaces the managing of these activities,

all of which are affected by the uses of the buildings themselves (Gleave, 1990, p. 64)











The Department of Transport, Environment and the Regions and the Commission for Architecture and the Built Environment's definition of urban design

### 'art of making places for people'

- the way places work and matters (community safety)
- how spaces look
- connections between

people and places movement and urban form, nature and the built fabric

the processes for ensuring successful villages, towns and cities.

(DETR/CABE, By Design: Urban Design in the Planning System: Towards Better Practice, 2000a, p. 8)



The Department of Transport, Environment and the Regions and the Commission for Architecture and the Built Environment's guide identifies the following **7 objectives of urban design** 

**Character:** a place with its own identity;

Continuity and enclosure: a place where public and private spaces are clearly distinguished;

**Quality of the public realm**: a place with attractive and successful outdoor areas;

Ease of movement: a place that is easy to get to and move through;

**Legibility**: a place that has a clear image and is easy to understand;

Adaptability: a place that can change easily;

**Diversity**: a place with variety and choice.



5 attempts to "identify the desirable qualities of successful urban places and/or 'good' urban form"

- Kevin Lynch
- Allan Jacobs and Donald Appleyard
- Responsive Environments
- Francis Tibbalds
- The Congress for New Urbanism



## Allan Jacobs and Donald Appleyard

Jacobs and Appleyard (Towards an Urban Design Manifesto, 1987, pp. 115-16) suggested seven goals that were 'essential for the future of a good urban environment':

- 1.Liveability: A city should be a place where everyone can live in relative comfort.
- 2.Identity and control: People should feel that some part of the environment 'belongs' to them, individually and collectively, whether they own it or not
- 3. Access to opportunities, imagination and joy: People should find the city a place where they can break from traditional moulds, extend their experience, and have fun.



## Allan Jacobs and Donald Appleyard

- **4. Authenticity and meaning:** People should be able to understand their (and others') city, its basic layout, public functions and institutions, and the opportunities it offers.
- **5.Community and public life:** Cities should encourage participation of their citizens in community and public life.
- **6. Urban self-reliance:** Increasingly cities will have to become more self-sustaining in their uses of energy and other scarce resources.
- **7. An environment for all:** Good environments should be accessible to all. Every citizen is entitled to a minimal level of environmental liveability, and of identity, control and opportunity.



#### Allan Jacobs and Donald Appleyard

To achieve these goals, five physical characteristics or 'prerequisites' of a 'sound' urban environment were defined:

- 1. Liveable streets and neighbourhoods
- 2. A minimum density of residential development and intensity of land use
- 3. Integrated activities living, working, shopping in reasonable proximity to each other
- 4. A manmade environment that **defines public space**, particularly by its buildings (as opposed to buildings that mostly sit in space).
- 5. Many separate, distinct buildings with complex arrangements and **relationships** (as opposed to a few, large buildings).



### Responsive Environments

"During the late 1970s and early 1980s, a team at the then **Oxford Polytechnic** formulated an approach to urban design, published as Responsive Environments: A manual for urban designers (Bentley et al., 1985)"

The design of a place, it was argued, affected the choices people could make:

- Where they could and could not go
- The range of uses available
- How easily they could understand what opportunities its offers
- •The degree to which they could use a given place for different purposes
- •Whether the detailed appearance of the place made them aware of the choice available
- Their choice of sensory experience
- The extent to which they could put their own stamp on a place



## Responsive Environments

#### 7 Key issues making places responsive

Permeability

Variety

Legibility

Robustness

Visual appropriateness

Richness

Personalisation

+ Resource Efficiency + Cleanliness + Biotic Support

(be added to include the ecological impact of urban forms and activity patterns (Bentley, 1990)



#### Francis Tibbalds

10 principles developed president of the Royal Town Planning Institute and founder of the UK-based Urban Design Group, Francis Tibbalds (1988b, 1992)

- consider places before buildings;
- 2. have the humility to learn from the past and respect your context;
- 3. encourage the mixing of uses in towns and cities;
- 4. design on a human scale;
- encourage the freedom to walk about;
- 6. cater for all sections of the community and consult with them;
- 7. build legible (recognisable or understandable) environments;
- 8. build to last and adapt;
- 9. avoid change on too great a scale at the same time;
- **10.** with all the means available, promote intricacy, joy and visual delight in the built environment.



## The Congress for New Urbanism

Idea of designing "complete neighbourhoods that would be similar to traditional neighbourhoods"

Some common principles of the framework is

- mixed use
- environmental sensitivity
- an internally consistent hierarchy of architectural building, and street types legible edges and centres walkability
- reliance on succinct graphic guidelines in lieu of traditional zoning codes

(Kelbaugh, 1997)



## The Congress for New Urbanism

New Urbanists were 'committed to re-establishing the relationship between the art of building and the making of community, through citizen based participatory planning and design'

They supported the following principles

- Neighbourhoods should be diverse in use and population
- Communities should be designed for the pedestrian and for transit, as well as for the car.
- Cities and towns should be shaped by physically defined and universally accessible public spaces and community institutions.
- Urban places should be framed by architecture and landscape design that celebrate local history, climate, ecology and building practice.



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#### The need for Urban Design

Loukaitou-Sideris ((1996, p. 91) says that focusing on the product rather than the process of urban design, could cause the following 'cracks' of urban quality

- •the gaps in the urban form, where overall continuity is disrupted
- the residual spaces left undeveloped, under- used or deteriorating
- the physical divides that purposefully or accidentally separate social worlds
- •the spaces that development has passed by or where new development creates **fragmentation** and **interruption**.

Urban design aims to reduce poor quality urban environments



# **Urban Design Practice**

# Who are the urban designers?

"who take decisions that shape the urban environment,

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which includes not just architects,
landscape architects,
planners,
engineers,
and surveyors,
but also developers,
investors,
occupiers,
civil servants,
politicians,
events organisers,
crime and fire prevention officers,
environmental health officials,
and many others.
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# **Types of Urban Design Practice**

# 'planner/urban designer' vs 'architect/urban designer'

"Research for DETR (2000) identified four types of contemporary urban design practice:

urban development design

design policies, guidance and control

public realm design

community urban design



	PROFESSIONAL DOMAIN	CHARACTERISTICS	ACTIVITIES
JRBAN DEVELOPMENT DESIGN	Traditionally domain of architects supported by landscape architects and other designers	Rooted in the development process. Typically applicable at site and neighbourhood scales	Involves all-of-a-piece design situations and some total design situations
DESIGN POLICIES, GUIDANCE AND CONTROL	Traditionally domain of planners supported by architects, landscape architects, conservation officers and others	The design dimension of the planning process (e.g. primarily response to anticipated effects of urban change on urban design quality, whereby guidance and control are typically applied from outside development process). Range of considerations usually wider than concerns of urban development design. Applicable at all scales of urban design	Includes: (i) area appraisals, design strategy and policy formulation; (ii) preparation of supplementary design guidance and briefs, and (iii) exercise of design or 'aesthetic' control
PUBLIC REALM DESIGN	Engineers, planners, architects, landscape architects and others. But frequently unintentional result of unco-ordinated decisions and actions taken by many different parties	Encompasses design of 'capital web' (e.g. roads and streets, footpaths and pavements, car parks, public transport interchanges, parks and other urban spaces). Relevant over range of scales	Includes: (i) design and implementation of specific projects; (ii) production and application of guidelines for design and improvement of a locality; and (iii) ongoing management and maintenance of places, including programming of activities and events
COMMUNITY JRBAN DESIGN	No particular profession	Seeks to work with and in communities developing proposals from grass-roots level. Particularly applicable to neighbourhood scale	Utilises range of approaches and techniques to engage with those who will use the environment

Carmona et.al 2003,

p.17

### THE CONTEXT FOR URBAN DESIGN

# 2. Urban Change



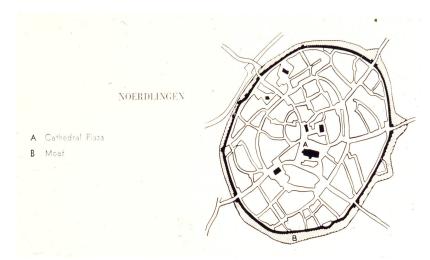
# **Urban Change**

Change of the urban environments during the recent years

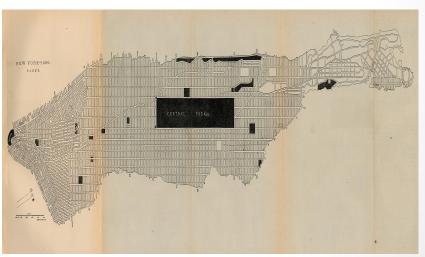
Focus on 'place'

(Before) 'traditional' (pre-industrial) cities were divided into the 'organic' and the 'planned'.

Carmona et.al 2003, p.20



Source: http://aytch.mnsu.edu/URBS110/ Dark%20Ages/Noerdlingen%20Map.jpg



Source: http://www.lib.utexas.edu/maps/historical/new york parks 1880.jpg



Mitchell Schwarzer (The Contemporary City in Four Movements, 2000, pp. 129–36) presents a **typology of contemporary** urbanisms as:

- 1.Traditional urbanism
- 2.Conceptual urbanism
- 3. Marketplace urbanism
- 4. Social urbanism



### 1. Traditional urbanism

"Looks back 'to an age of grids, public squares, moderately dense housing and pedestrian corridors ".

"attempts to recover what it regards as a more 'authentic' urban framework."



### 2. Conceptual urbanism

"adopts a more radical attitude, attempting to 'shake off assumptions of what the city was, is or should be',

and to appreciate the

'fluid instabilities'

of cities as well as their

'inertia of material residue'. "



### 3. Marketplace urbanism

characterised by the

'immense financial, technological and political energies'

"Both the scale of suburban development, and the economic power of edge cities, are seen as proof of their harmony with popular values . . .

Pragmatism is identified with what sells."



### 4. Social urbanism

critique of most aspects of contemporary US cities, in particular the 'uneven consequences' of commodity capitalism.

High- lighting areas of the city that 'capital ignores or flees from', such areas are seen as an 'indictment against the ongoing denigration of urban life at the hands of unequal capital concentration, relentless business and real-estate competition and ceaseless social movements'.



# The Industrial City

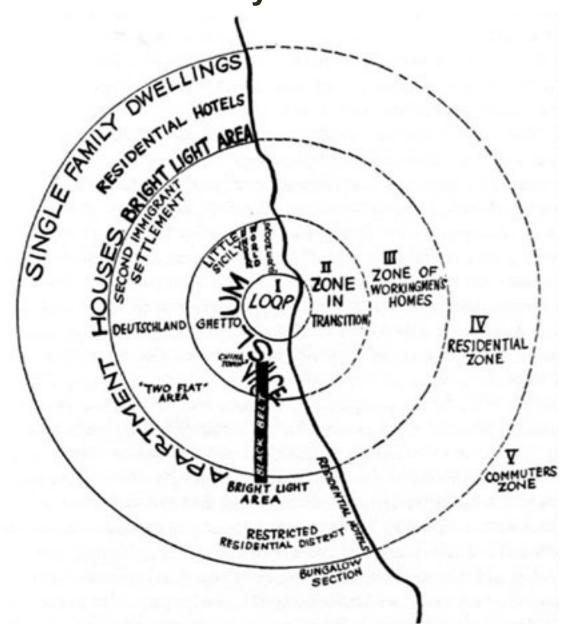
### 19th century Industrial Revolution

- steam power
- major social and economical changes
- population increase
- migration of population into towns

'Chicago School' → influential ideas about urban form and structure



# **The Industrial City**



city centre or Central Business District (CBD).

surrounding the centre ring of industry (required a large labour force)

ring of blue-collar and working-class housing.

ring of mainly middleclass suburbs.

Carmona et.al 2003, p.28



### **Post-Industrial Urban Form**

1960s  $\rightarrow$  new urban forms

"different to modern/industrial cities in their form, pattern of land values, and social geographies"

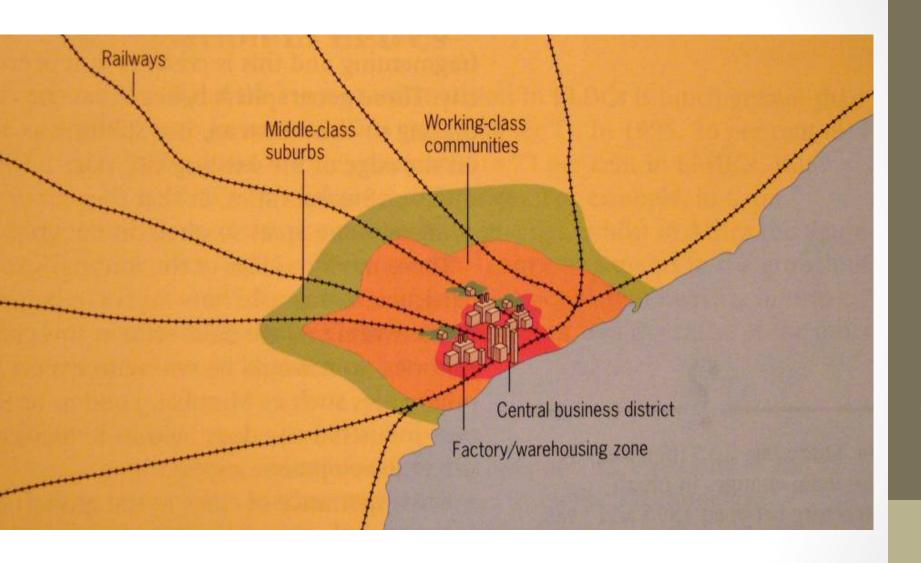
"mass transport systems broke the necessarily close spatial relation between workplace and residence"

"better quality housing, a garden, healthier living conditions, and the social status"

Individual cars → brought freedom; yet it also brought many problems (at environmental, economic and social levels)

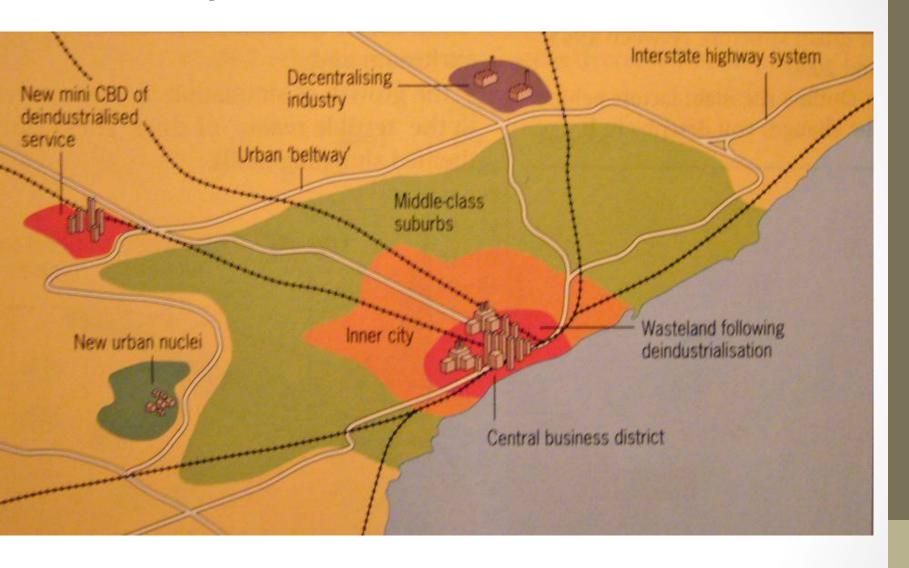


# Classic industrial city 1850s



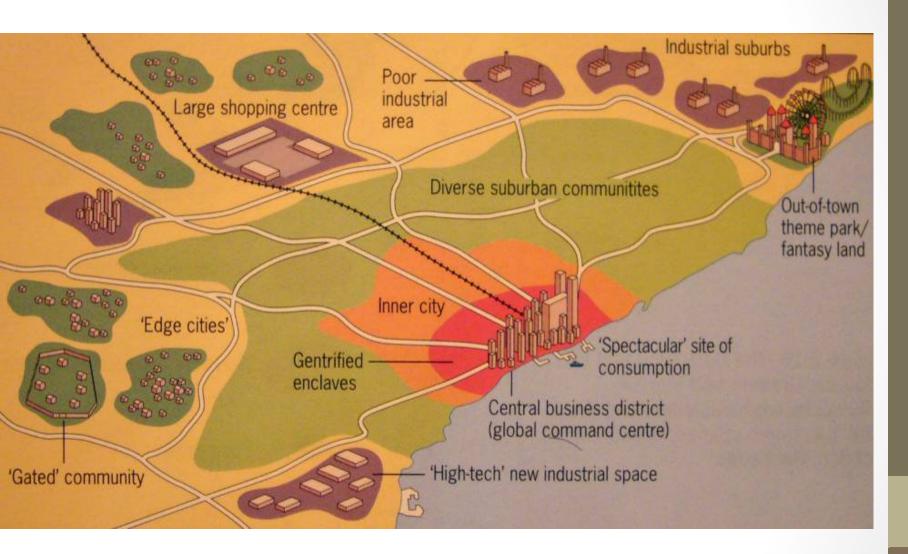


# Industrial city 1945-1975





# The post-industrial city





### Informational Age Urban Form

The contemporary restructuring of urban form

Transition from from an industrial to an 'informational' era

electronic communications possibility of working from home

### **Environmental sustainability**

factors influences urban form : global warming/ pollution (especially from cars), depletion of fossil fuel reserves

reduce travel by facilitating shorter journeys use of public transport retention of open space and valued habitats; encourage traffic calming and walking and cycling make the provision of amenities and facilities economically viable enhance social sustainability encourage social interaction.



### **PART I**

### THE CONTEXT FOR URBAN DESIGN

3. Contexts for Urban Design



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4 contexts will be discussed such as:

The Local Context

The Global Context

The Market Context

The Regulatory Context











### The Local Context

the site plus the area immediately outside its boundaries

"Not all contexts or places require the same degree of 'contextual' response."

"Areas of highly unified character generally require more respectful responses, while areas of low environmental quality offer greater opportunity for the creation of new character."

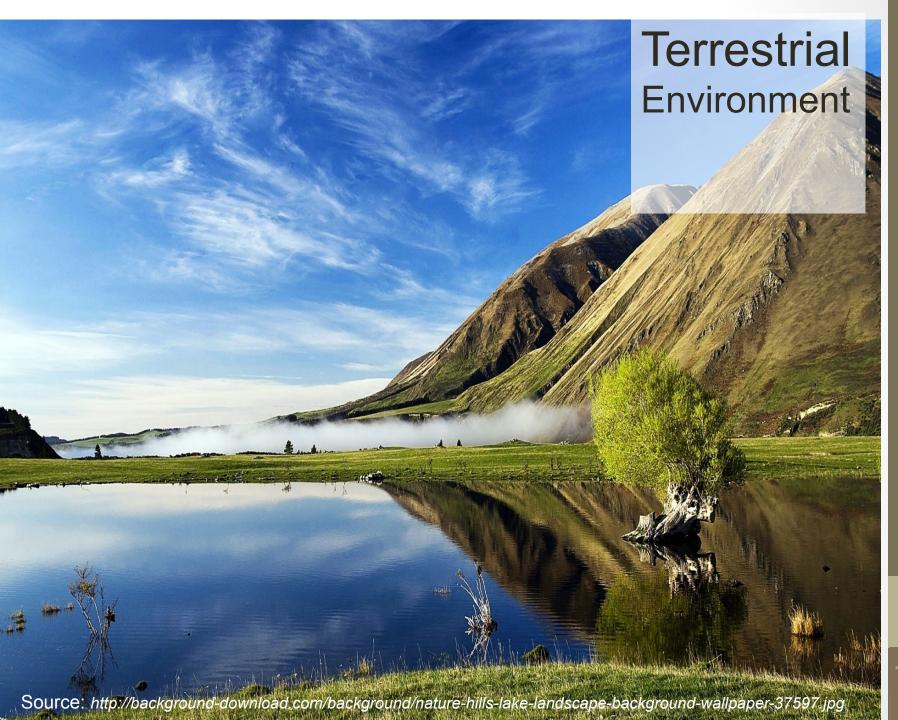


### **The Local Context**

To Lang (1994, p.19), all environments can be conceived of in terms of 4 interlocking components

- **1.Terrestrial environment** the earth, its structure and processes.
- 2. Animate environment the living organisms that occupy it.
- 3. Social environment the relationships among people.
- **4. Cultural environment** the behavioral norms of, and artefacts created by a society.





















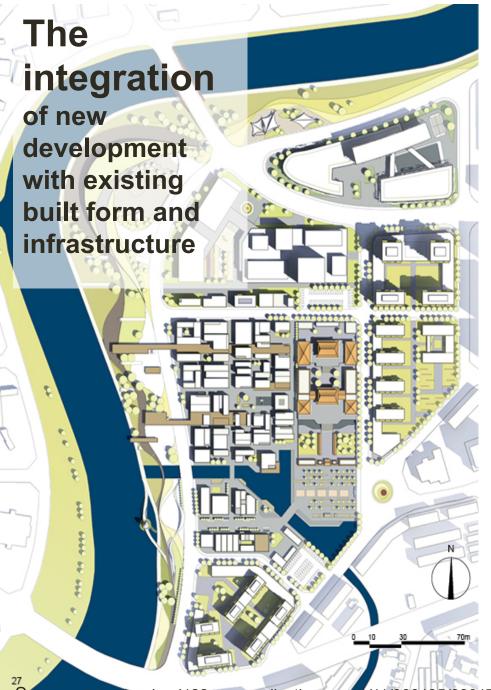
### **The Global Context**

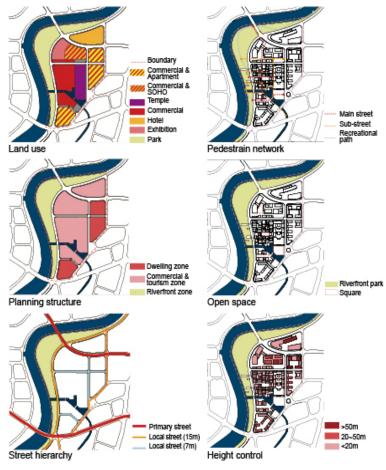
"local actions have **global impacts** and consequences, while global actions have **local impacts** and consequences"

Considering

- •The integration of new development with existing built form and infrastructure (e.g. choice of location/site, use of infrastructure, accessibility by various modes of travel).
- •The range of uses a development contains (e.g. mixed use, access to facilities/amenities, working from home).
- •Site layout and design (e.g. density, landscaping/greening, natural habitats, daylight/ sunlight).
- •The design of individual buildings (e.g. built form, orientation, microclimate, robust buildings, building reuse, and choice of materials).







### Master plan

To realize the concept of urban coexistence and lead to the rebirth of community, each components of the site should be arranged in a system. The riverfront area is transformed into a park for travelers while the commercial and residential area lies in the inner part of the site. A road system and pedestrian network can closely connect each area so that the residents and tourists can reach their destination more conveniently.



Urban Design

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Process

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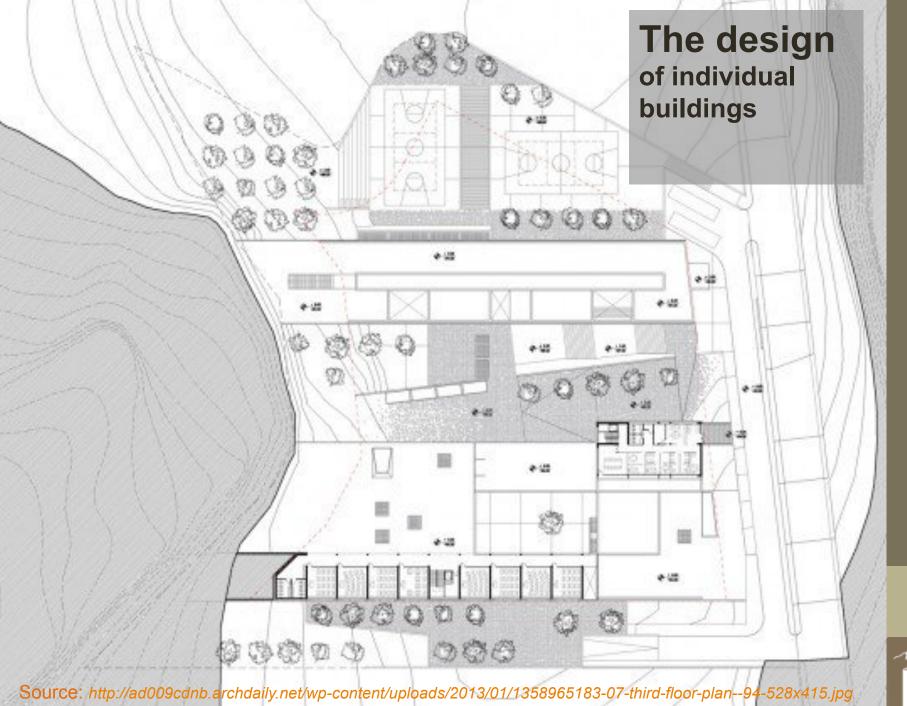
Process of Urban Design

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### **The Global Context**

### Sustainable Urban Design

"The concept of sustainable development includes not only environmental, but also economic and social, sustainability."





Three pillars modelof sustainable development Rydin, 2004.



### The Global Context

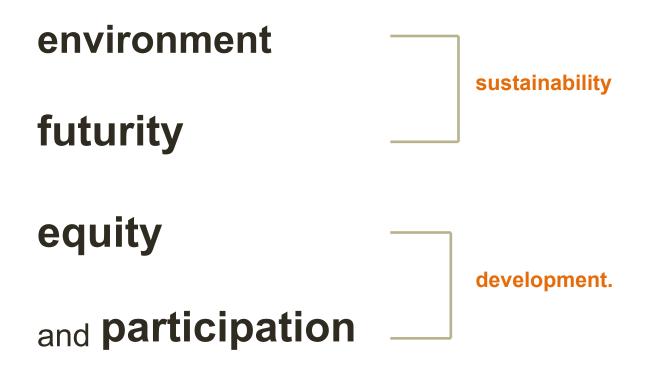
### Sustainable Urban Design

Michael Hough (1984)'s 5 ecological design principles

- 1. Appreciation of process and change: natural processes are unstoppable, and change is inevitable and not always for the worse.
- 2. Economy of means: deriving the most from the least effort and energy.
- 3. Diversity: the basis for environmental and social health.
- **4. Environmental literacy**: the basis for wider understanding of ecological issues.
- 5. Enhancement of the environment: as a consequence of change, not just as damage limitation.



Sustainable development rests on clear 'principles' that can be named as



### The Market Context

Market = Economic demand supply

budgetary constraints

"in a market economy, many decisions that have public consequences are made in the private sector".

"mediated by policy and by regulatory frameworks"

"to operate effectively, urban design practitioners need to understand the financial and economic processes by which places and developments come about"



# **Contexts for Urban Design The Market Context**

"Urban development is substantially determined by those in control of - or in control of access to resources"



# The Regulatory Context

the 'macro' regulatory (governmental) context

Public policy

Urban design policy

The operation of design control/review



# **The Regulatory Context**

The market and state relations

Some basic distinctions

Public sector aims	Private sector aims
development that adds to the local tax base	good return on investment, mediated by considerations of risk and liquidity (the profit margin)
enhancement of long-term investment opportunities in its area of responsibility	investment opportunities, wherever and whenever they arise
enhancement of existing, or creation of a new, high quality environment	a context supportive of the particular development, which will not undermine its asset value for as long as the investment is held
development creating or supporting local jobs and for having a social benefit	basing of investment decisions on local purchasing power and the availability of a ready market
to find opportunities to support public sector services	looking to the cost and availability of financing for development
development to meet local needs	

# The Urban Design Process

# research and decision-making process

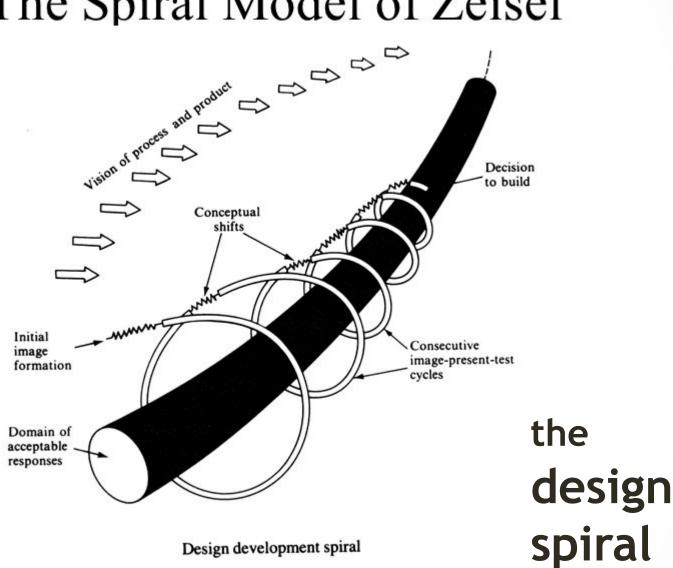


All design must satisfy certain criteria at the optimum level



# ARCH355 Process of Urban Design

# The Spiral Model of Zeisel



Design development spiral

@ M. Rauterbe

Source: John Zeisel, 1981

# The Urban Design Process

- 4 key development phases of the urban design process
- 1.brief setting
- 2.Design
- 3.Implementation
- 4.post-implementation review



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# The Urban Design Process

In each of the 5 key development phases of the urban design, "urban designer's thought processes can be disaggregated into a series of thought stages":

- Setting goals
- Analysis
- Visioning
- Synthesis and prediction
- Decision-making



# **The Integrated Urban Design Process**

