THE BARTLETT SCHOOL OF PLANNING

Graphic Skills Portal

Introduction Handout

ANALYSING



BSP Graphic Skills Portal The Bartlett School of Planning, UCL

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1. What do we mean by Townscape Analysis?

"The term '**townscape**' refers very broadly to the overall character and composition of a town (or other aspects of the built environment). It can include the range relationships between those buildings segment of a neighbourhood. and the different types of space between and around them, and reflects the relationship between people and place." (Designingbuildings.co.uk)

Solomon (1966) argues that "the recognition of building styles and their relation to historical periods is the key to townscape analysis".

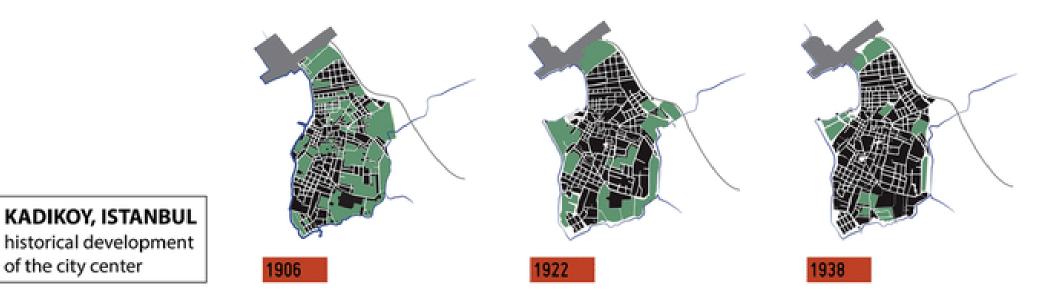
analysis as a collection of analysis and Townscape analysis includes, among the mapping tools that graphically address the character, composition, and constrains and guality of buildings in an area, the of a specific area, whether is a city or a

Therefore, we can refer to the Townscape There are several types of maps that others, some are:

- Historical development
- Massing & Building heights
- Green & Open Spaces
- Access and movement map
- Building Character ٠
- Conservation & Heritage •
- Massing & Building heights
- Frontages map •
- Public realm
- Wayfinding map ٠
- Entrances
- etc.

1. HISTORICAL DEVELOPMENT MAP

A sequence of historic maps define the development of the area over time up until today. In this map is helpful to highlight any listed buildings or historic remains.



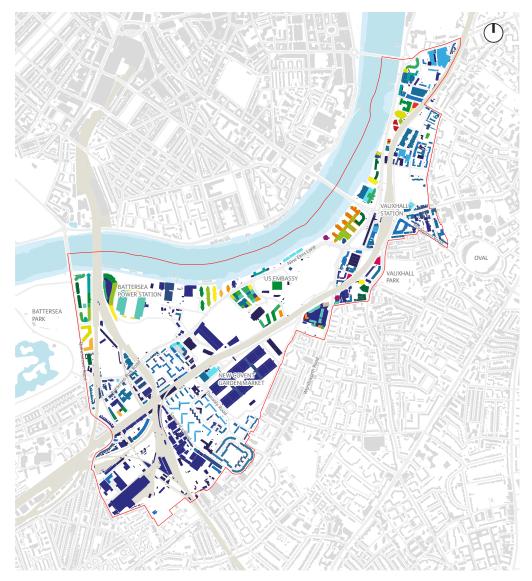
2. BUILDING HEIGHTS

The building height defines three spatial concepts which have an impact on the public spaces and place-making.

1. Enclosure – how the public space is defined

2. Identity – how the skyline of the area, as well as the landmarks, effect the whole perception of the place

3. Micro-climate – the degree of impact on the space as a result of its orientation, light, wind, etc.



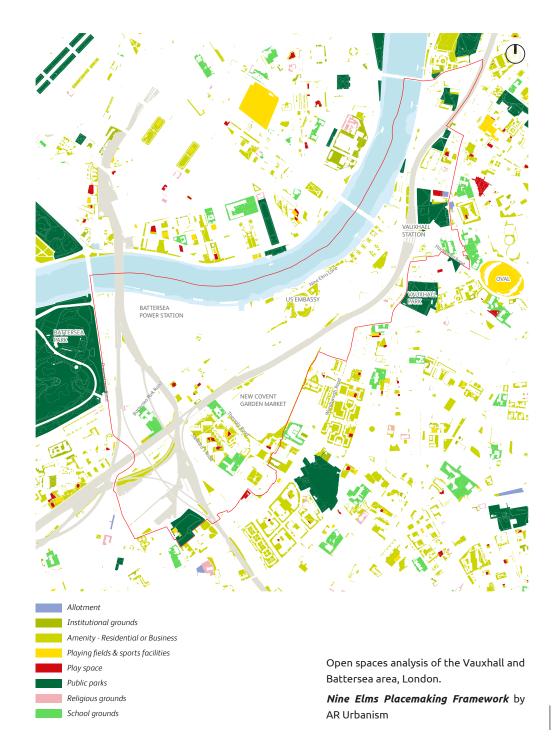
1 Floor	9 Floors	19 Floors
2 Floors	11 Floors	21 Floors
3 Floors	12 Floors	25 Floors
4 Floors	13 Floors	29 Floors
5 Floors	14 Floors	32 Floors
6 Floors	15 Floors	36 Floors
7 Floors	16 Floors	50 Floors
8 Floors	18 Floors	

Building heights analysis of the Vauxhall and Battersea area, London.

Nine Elms Placemaking Framework by AR Urbanism

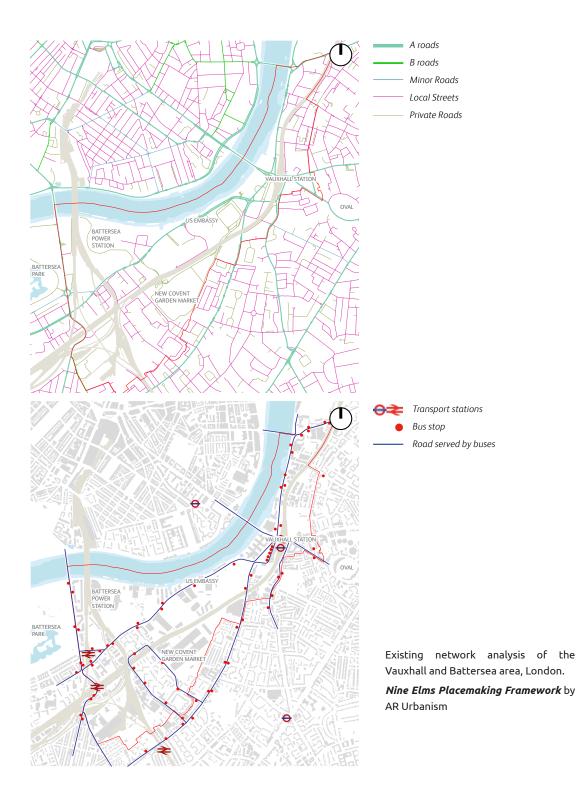
3. GREEN AND AMENITIES SPACES MAP

Green and amenities spaces define the relationship between the built form and the open space. Moreover, it gives information about the social ties and infrastructure of the area.



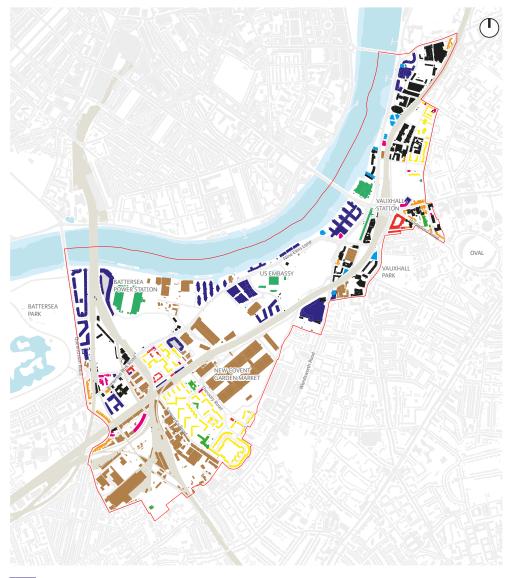
4. ACCESS & MOVEMENT MAP

Existing networks can include both vehicular roads and pedestrian/cycle roads. Generally the analysis highlights crossing points on the major roads, level of permeability and physical barriers.



5. EXISTING BUILDING CHARACTER

Building typologies define the types of use and contribute to the specific character of a place. From the typology study, we can see how proximal public spaces relate to particular building uses to understand how this effects the spatial perception, accessibility and visual connection of these places.





Existing building character map of the Vauxhall and Battersea area, London.

Nine Elms Placemaking Framework by AR Urbanism

2. What are the types of analysis in urban design?

Beside **Townscape Analysis**, there are several other analysis that can be used to explore a specific urban space. Some are:

- Construction Sites analysis
- Access & Movement analysis (Road network; Pedestrian routes; Cycle routes; Public transport, etc.)
- Uses & Inhabitation (Ground floor uses;
 Upper floor uses; Evening economy;
 etc.)
- Major Edges
- Major Elements/landscapes

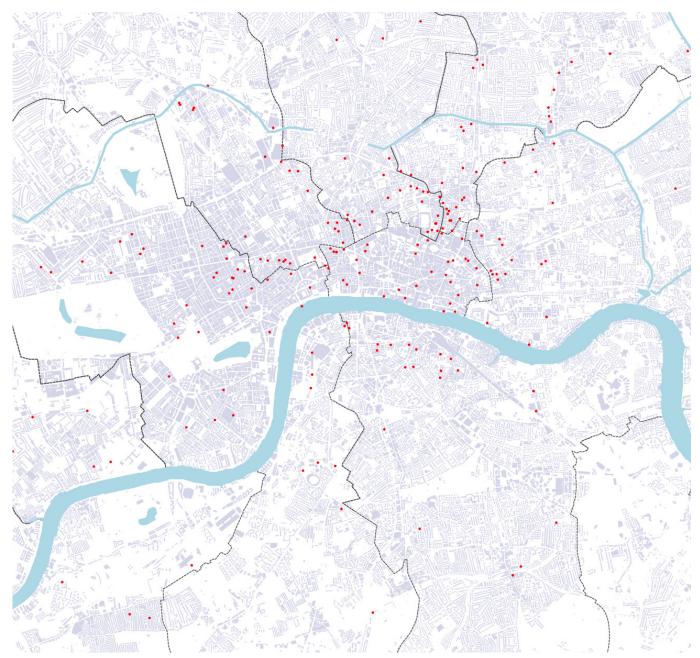
Based on **The Dimensions of Urban Design**¹, urban design must be understood holistically as a joined-up activity combined by six dimensions for the purpose of clarity in exposition and analysis of each specific project:

- The morphological dimension
- The perceptual dimension
- The social dimension
- The visual dimension
- The functional dimension
- The temporal dimension

¹⁰ BSP GRAPHIC SKILLS PORTAL | Introduction

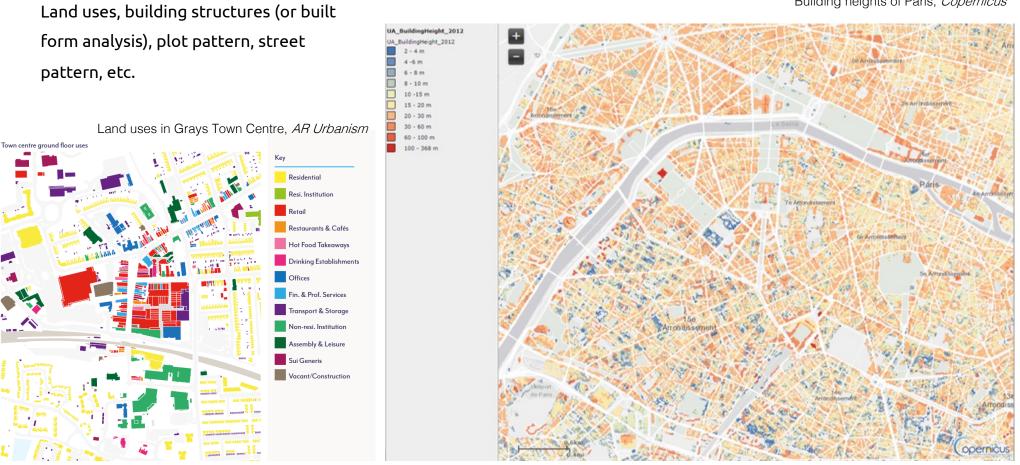
Each one of the six dimensions includes specific analysis:

- The morphological dimension: Land uses, building structures (or built form analysis), plot pattern, and street pattern;
- The perceptual dimension: Sensory maps, such as sound, smell, fear, etc.;
- The social dimension: Community asset map, population composition, safety and security, etc.;
- **The visual dimension:** Permeability map, visual relationship map, etc.;
- The functional dimension: Space syntax integration map, accessibility pattern, edge conditions, etc.;
- The temporal dimension: Historical development, etc.



Manzini Ceinar (2022). Figure-ground map of London identifying coworking spaces around the city centre.

The Morphological dimension

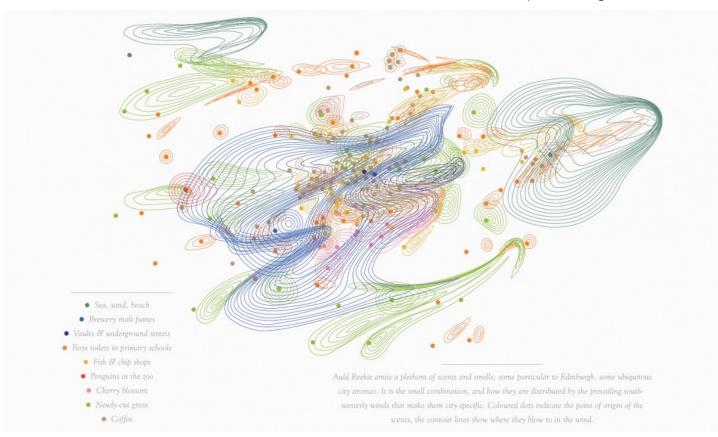


Building heights of Paris, Copernicus

The Perceptual dimension

Sensory maps, such as sound, smell, fear, etc.;

Smell map of Edinburgh, Kate McLean

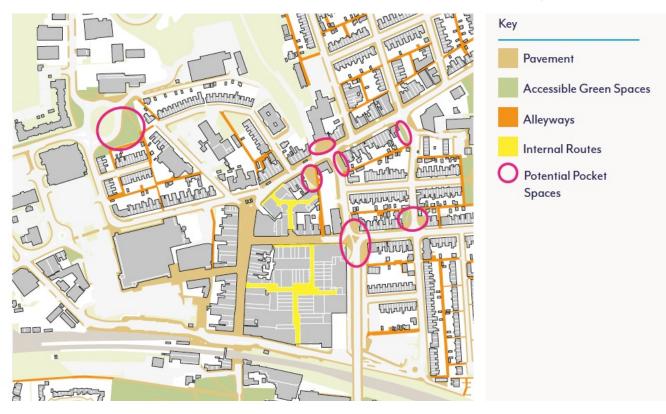


The Social dimension

Community asset map, population composition,

safety and security, etc.;

Public realm analysis, AR Urbanism



The Visual dimension

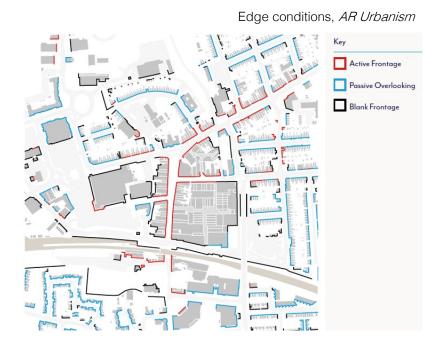
Permeability map, visual relationship map, etc.



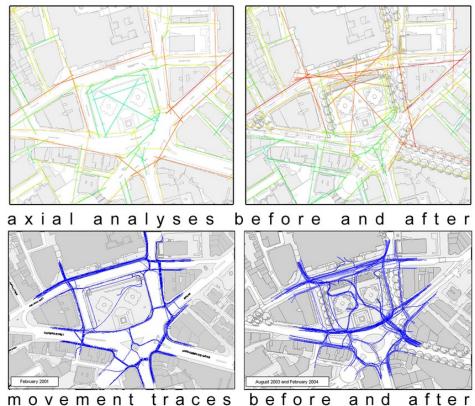
Permeable spaces in Venice, Irene Manzini Ceinar

The Functional dimension

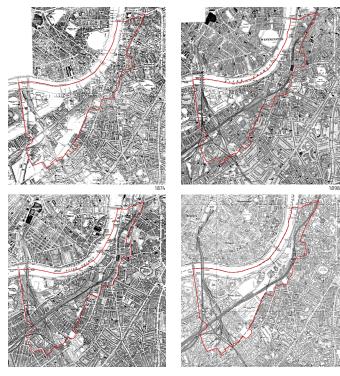
Space syntax integration map, accessibility pattern, edge conditions, etc.



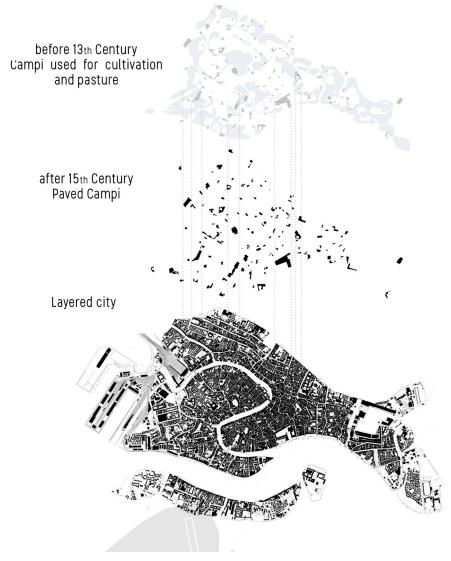
Space Syntax analysis of London's Trafalgar Square, Space Syntax Ltd.



The Temporal dimension



Development of Nine Elms-Vauxhall area, London



Manzini Ceinar (2018). The evolution of Venice, Italy

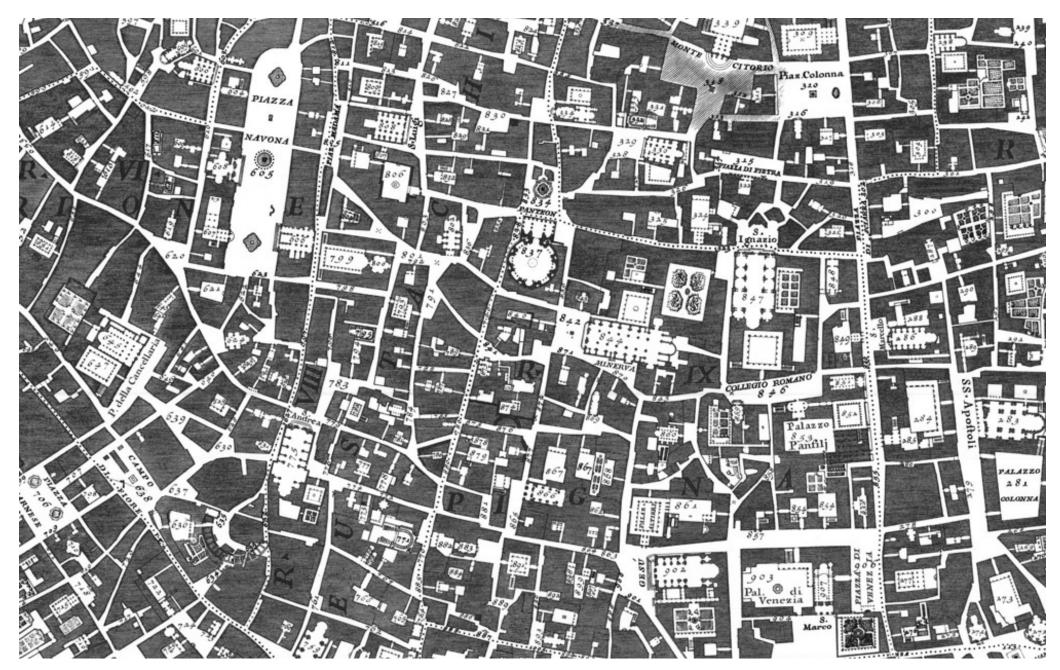
3. What is a Figure-ground map?

The **figure-ground map** (or diagram) is a tool for studying urban morphology. This technique is great for illustrating *solid-void relationships and the interplay between public and private space in urban settings.*

One of the best-known examples of a figure-ground map is **Giambattista Nolli's 1748 "Pianta Grande di Roma"**, that is a milestone in urban cartography.

During that time, cities were usually portrayed with pictorial maps.

With a focus on artistry rather than accuracy, pictorial maps provided a detailed bird's-eye-view of the city that would highlight landmark buildings and places of interest. As beautiful as they were, these maps were of little use for wayfinding and urban management.



Giambattista Nolli's 1748 "Pianta Grande di Roma"

