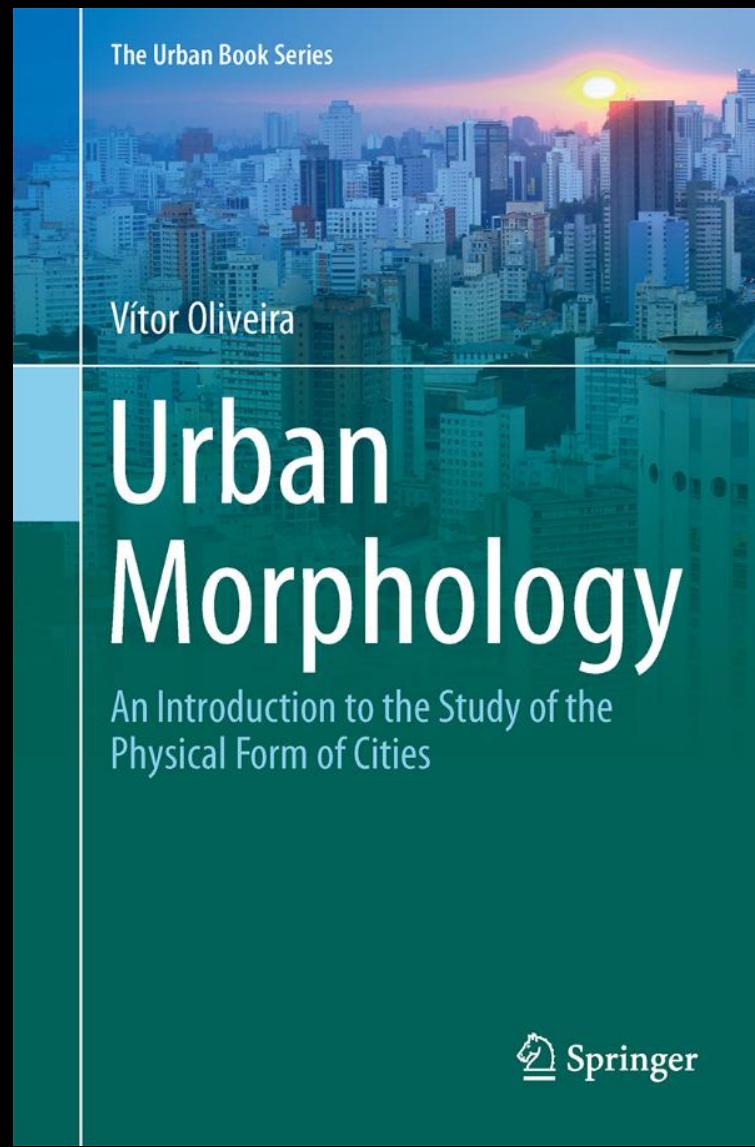


VITOR OLIVEIRA



URBAN MORPHOLOGY
MORFOLOGIA URBANA

AN INTRODUCTION TO THE STUDY OF THE PHYSICAL FORM OF CITIES
UMA INTRODUÇÃO AO ESTUDO DA FORMA FÍSICA DAS CIDADES



<http://www.springer.com/gp/book/9783319320816>



Farnsworth House (photograph: author)



Chicago (photograph: 4ever.eu)

What is urban morphology?

O que é morfologia urbana?

How can we teach urban morphology?

Como podemos ensinar morfologia urbana?

How should we organize morphological
knowledge for this to be taught?

Como devemos organizar o conhecimento morfológico de
modo a este poder ser ensinado?

WHAT IS URBAN MORPHOLOGY?

O QUE É MORFOLOGIA URBANA?

Urban morphology means the study of urban forms, and of the agents and processes responsible for their transformation.

Morfologia urbana significa o estudo das formas urbanas e dos atores e processos responsáveis pela sua transformação.

Urban form refers to the main physical elements that structure and shape the city – urban tissues, streets (and squares and gardens), street-blocks, plots, buildings (special and ordinary).

Forma urbana refere-se aos principais elementos físicos que estruturam e moldam a cidade – tecidos urbanos, ruas (e praças e jardins), quarteirões, parcelas (ou lotes), edifícios (singulares e comuns).

HOW CAN WE TEACH URBAN MORPHOLOGY? COMO PODEMOS ENSINAR MORFOLOGIA URBANA?

I

1. The elements of urban form . Os elementos da forma urbana
2. The agents and processes of change. Os agentes e processos de transformação urbana
3. Cities in History . Cidades na História
4. Contemporary cities . Cidades contemporâneas

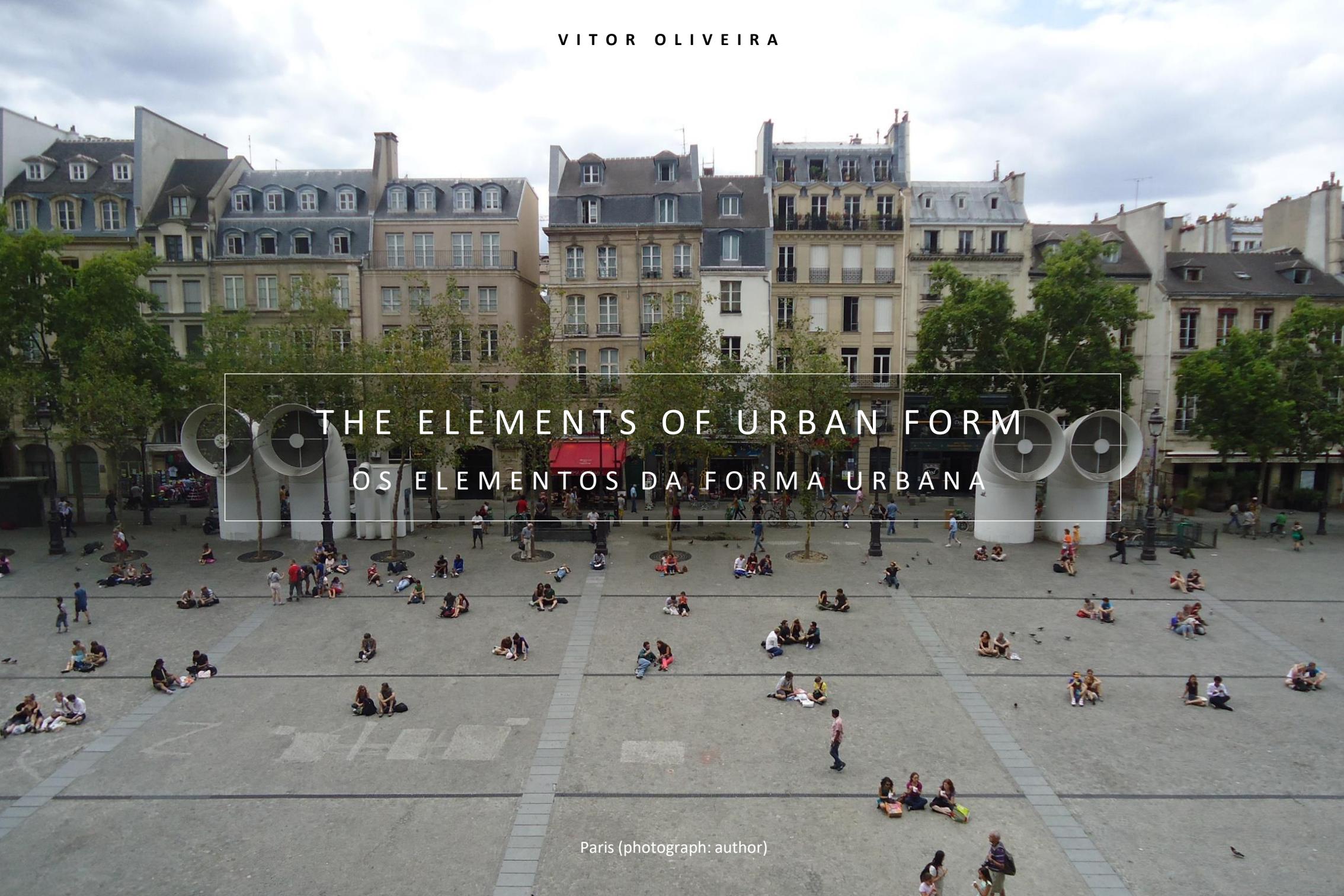
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II

5. The study of urban form: different approaches . O estudo da forma urbana: diferentes abordagens
6. From theory to practice . Da teoria à prática
7. Relationships with other fields of knowledge . Relações com outros campos do conhecimento

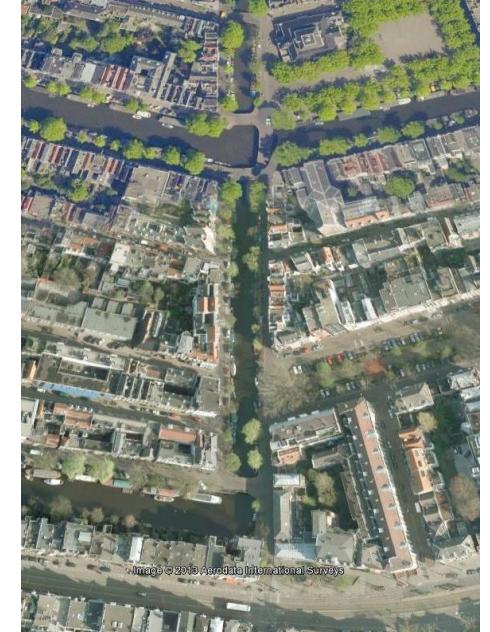


THE ELEMENTS OF URBAN FORM
OS ELEMENTOS DA FORMA URBANA

Paris (photograph: author)



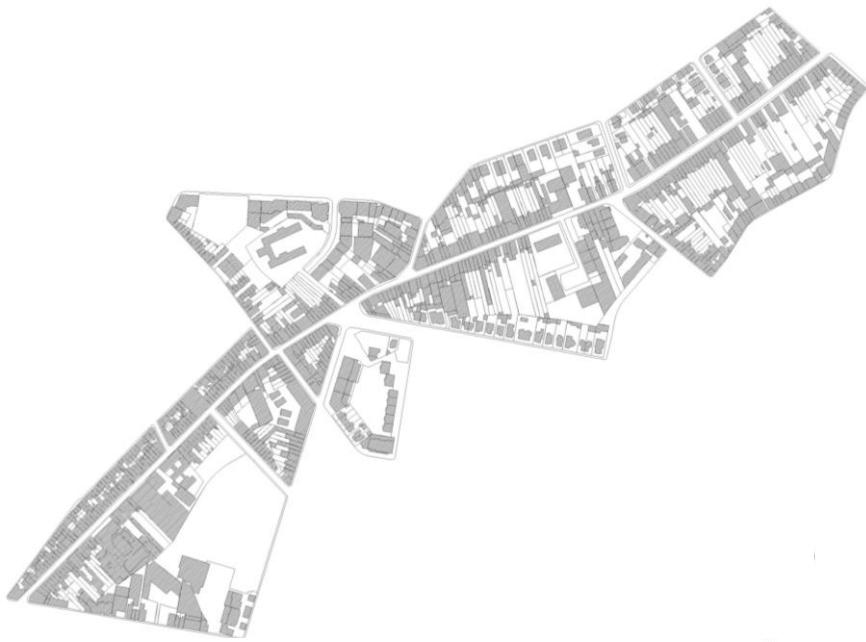
The natural context, Machu Picchu (photograph: Filipa Neiva)



Streets in different cities: New York, Paris, Siena, Amsterdam (source: Google Earth, author)



Different squares in Paris: *Vendôme*, *Vosges*, *Victoires* and *Dauphine* (photographs: author)



Plots, Porto

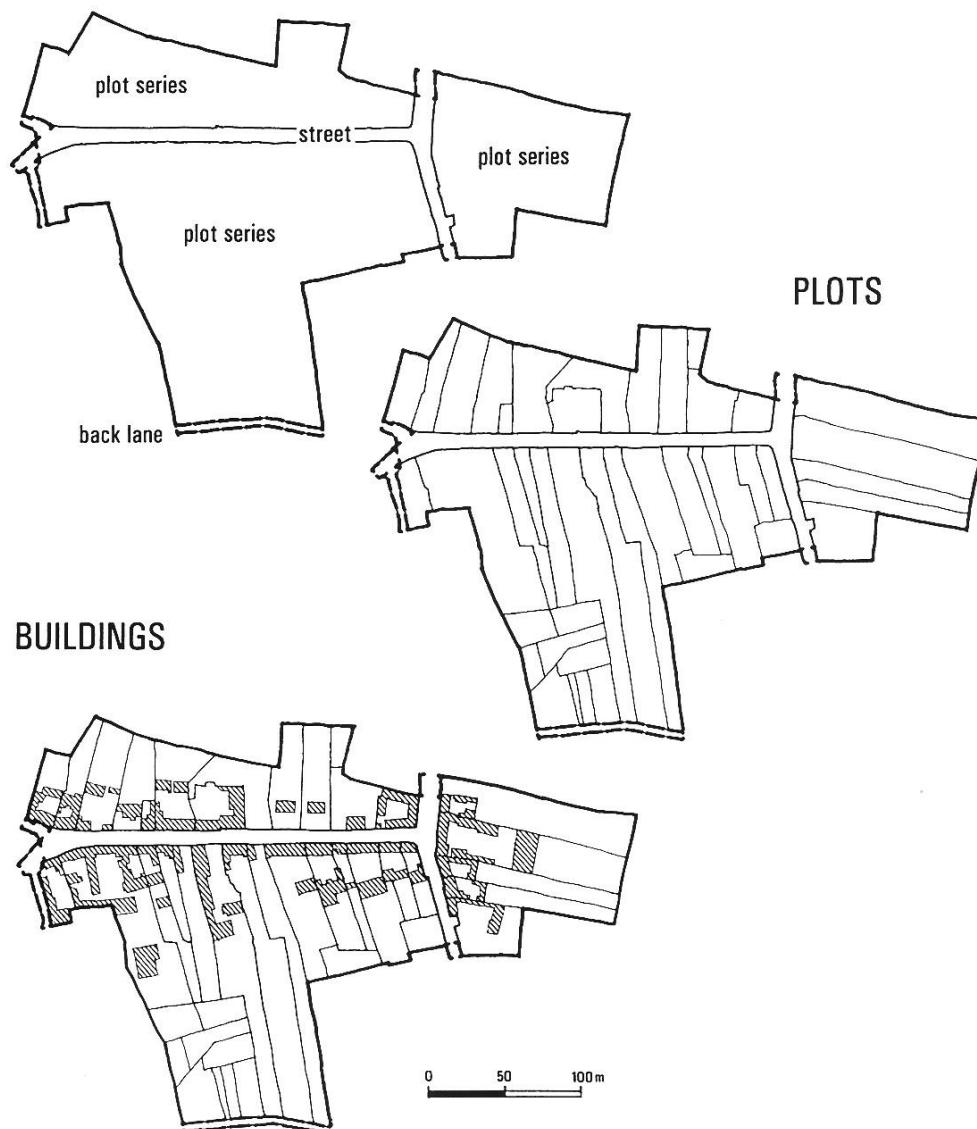


Buildings, Porto (photographs: author)



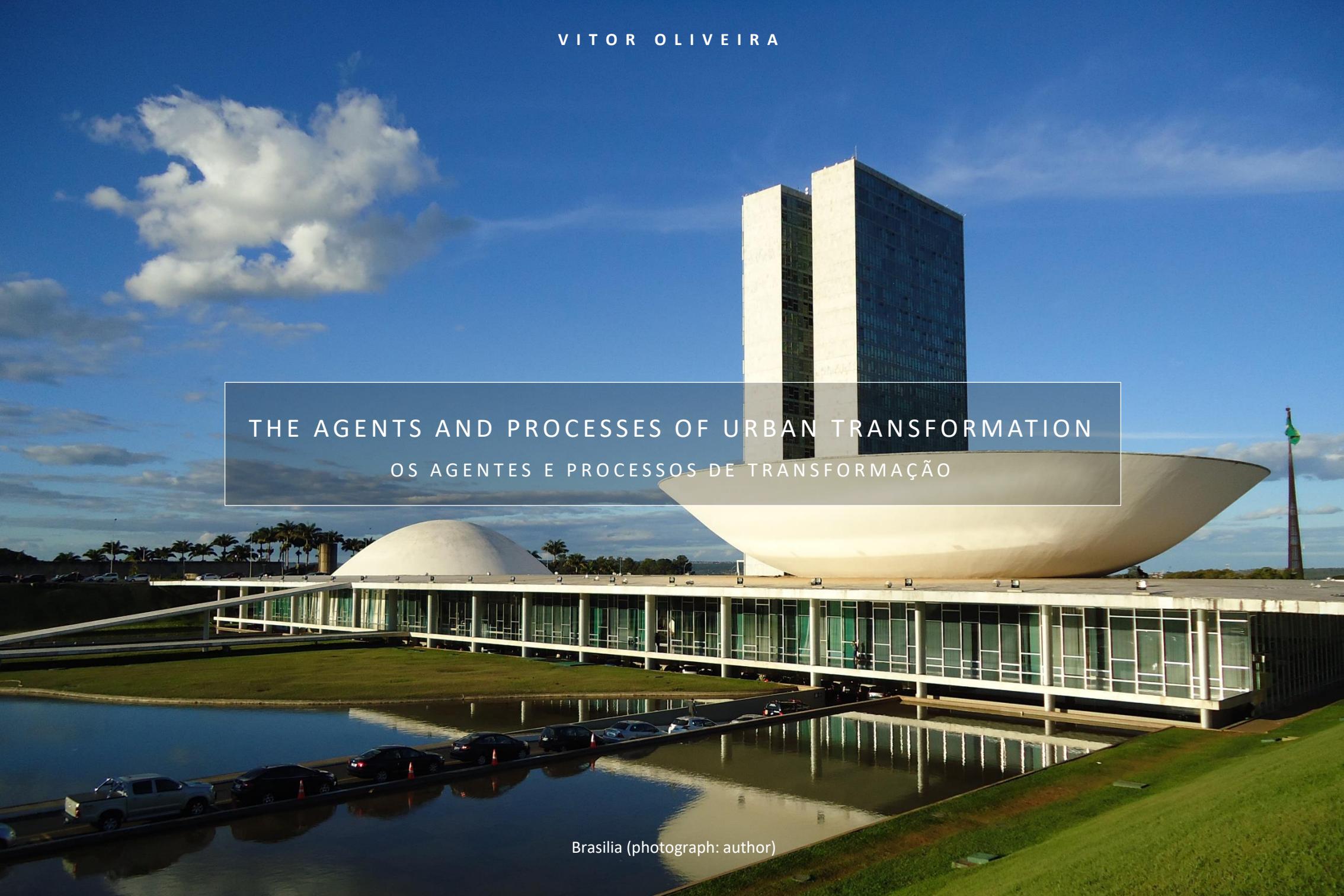
Urban tissues in different cities: Brasília, Djenné, Venice,
New York, Barcelona and Paris (source: Google Earth)

STREETS AND PLOT SERIES



Urban tissues: streets, plots and buildings (source: Karl Kropf)

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THE AGENTS AND PROCESSES OF URBAN TRANSFORMATION
OS AGENTES E PROCESSOS DE TRANSFORMAÇÃO

Brasília (photograph: author)

RECLAIM THE STREETS

Developers . Promotores

Architects . Arquitetos

Builders . Construtores

Planning officers . Técnicos autarquias

Politicians . Políticos

P L A N S

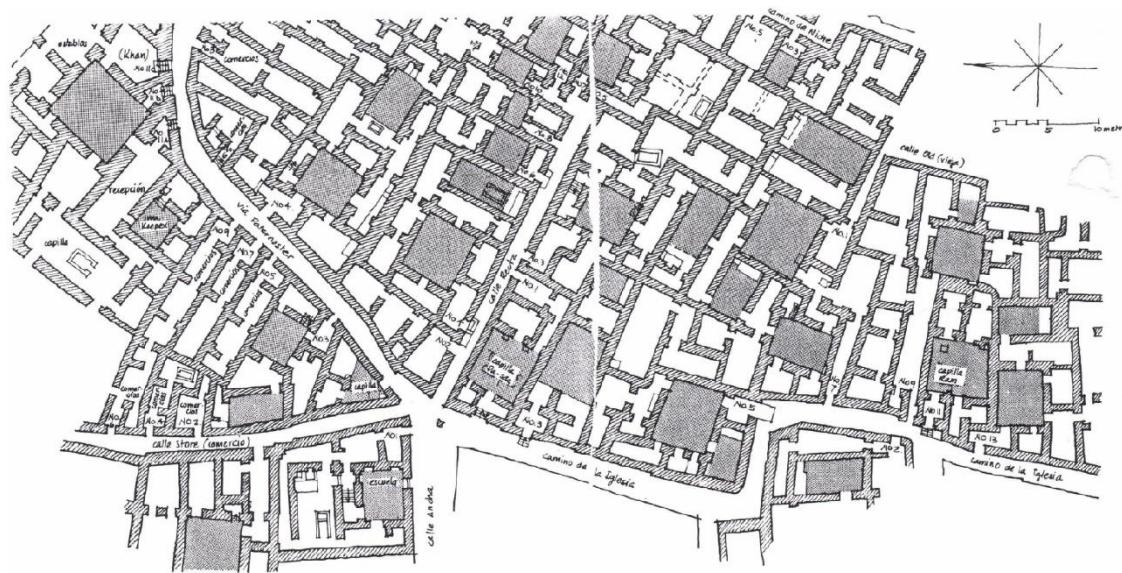
- 1791. Washington
- 1811. New York
- 1812. London
- 1853. Paris
- 1856. Vienna
- 1859. Barcelona
- 1879. Lisbon
- 1904. Letchworth
- 1911. New Dehli
- 1913. Canberra
- 1913. Amsterdam (South)
- 1921. Lyon (*Estats-unis*)
- 1925. Frankfurt
- 1925. Berlin-britz
- 1945. Le Havre
- 1952. Chandigarh
- 1955. Rotterdam
- 1957. Brasilia
- 1967. Milton Keynes
- 1981. Seaside

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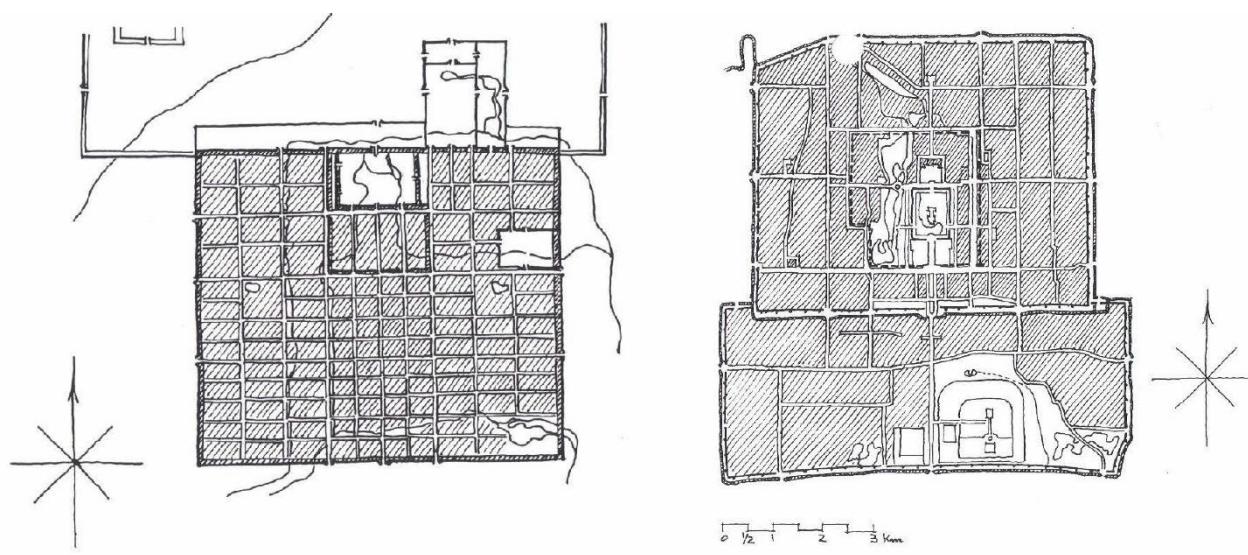


CITIES IN HISTORY
CIDADES NA HISTÓRIA

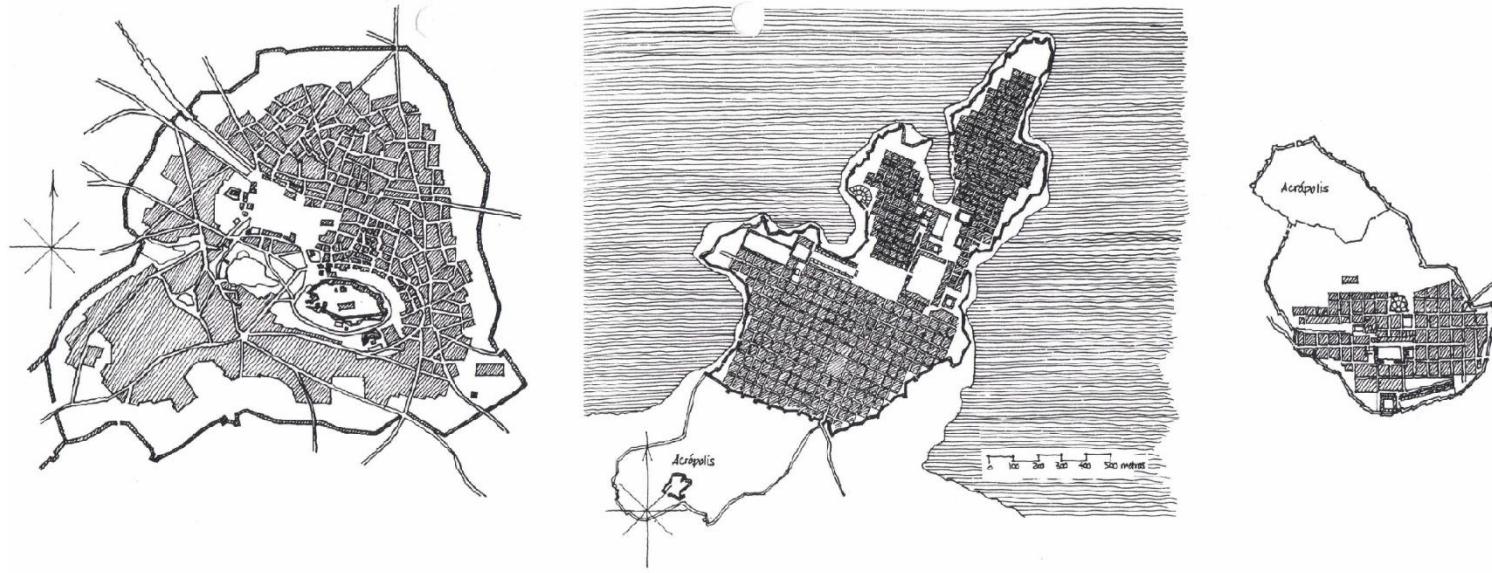
Rome (photograph: author)



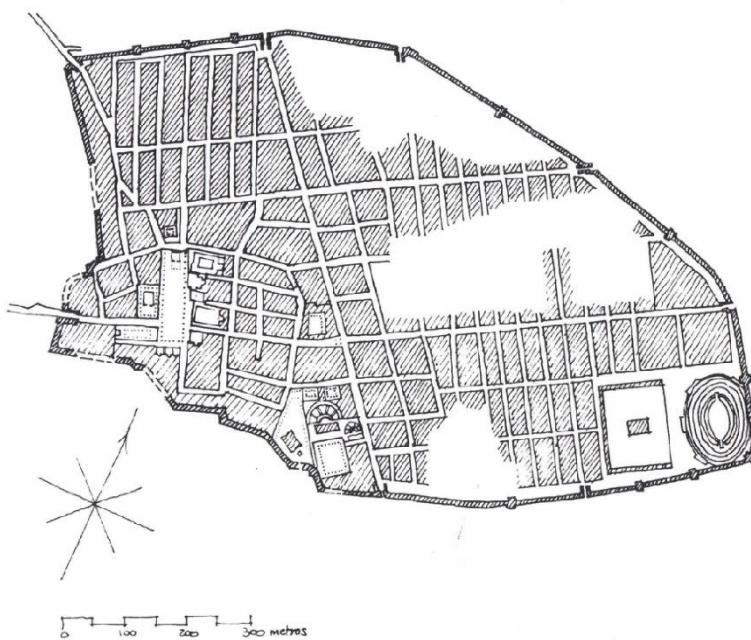
The Sumerian cities: Ur—part of the city (source: Schoenauer)



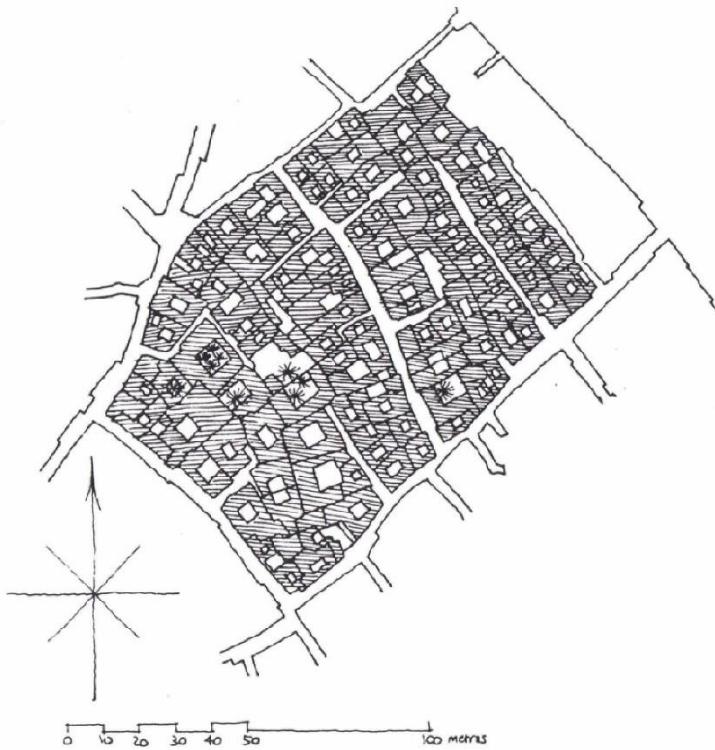
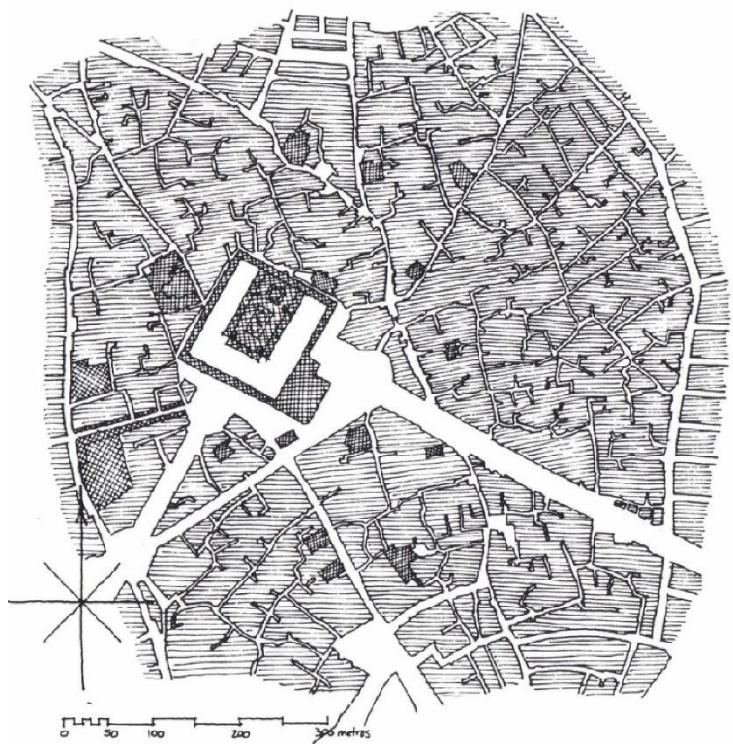
The Chinese cities: Changan and Beijing (source: Schoenauer)



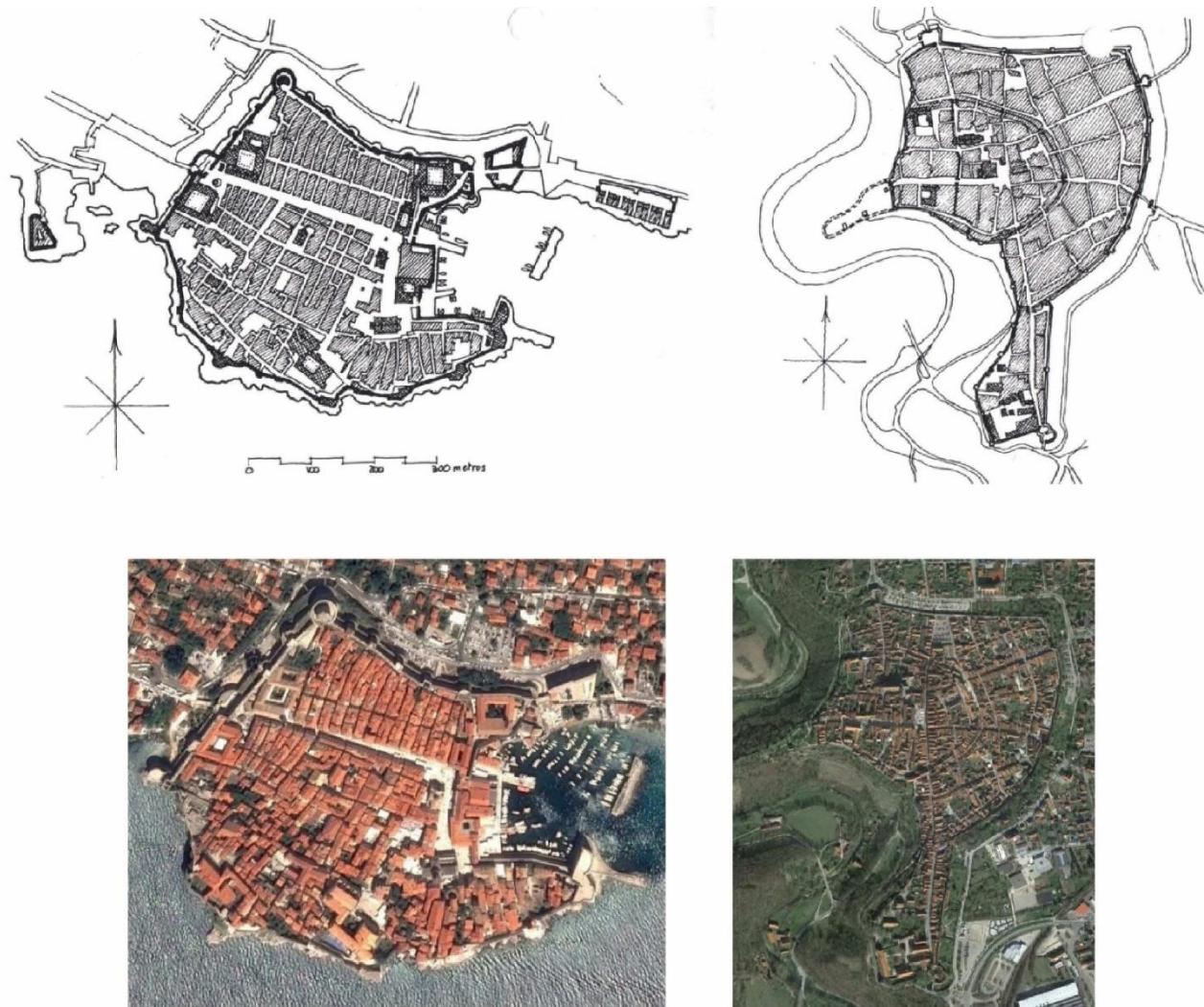
The Greek cities: Athens, Miletos and Priene (source: Schoenauer)



The Roman city: Pompeii (source: Schoenauer, Google Earth)



The Islamic city: Al-Kazimiyah (near Bagdad),
the medina and part of the residential sector (Source: Schoenauer)



The medieval cities: Dubrovnik and Rothenburg ob der Tauber
(source: Schoenauer, Google Earth)



The Renaissance cities: Palma Nova and Neuf-Brisach (source: Google Earth)

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CONTEMPORARY CITIES

CIDADES CONTEMPORÂNEAS

New York (photograph: author)



Marrakesh (photograph: author)



New York (photograph: author)



Belo Horizonte (photograph: author)



Varanasi (photograph: Jorge Correia)



Porto (photograph: author)

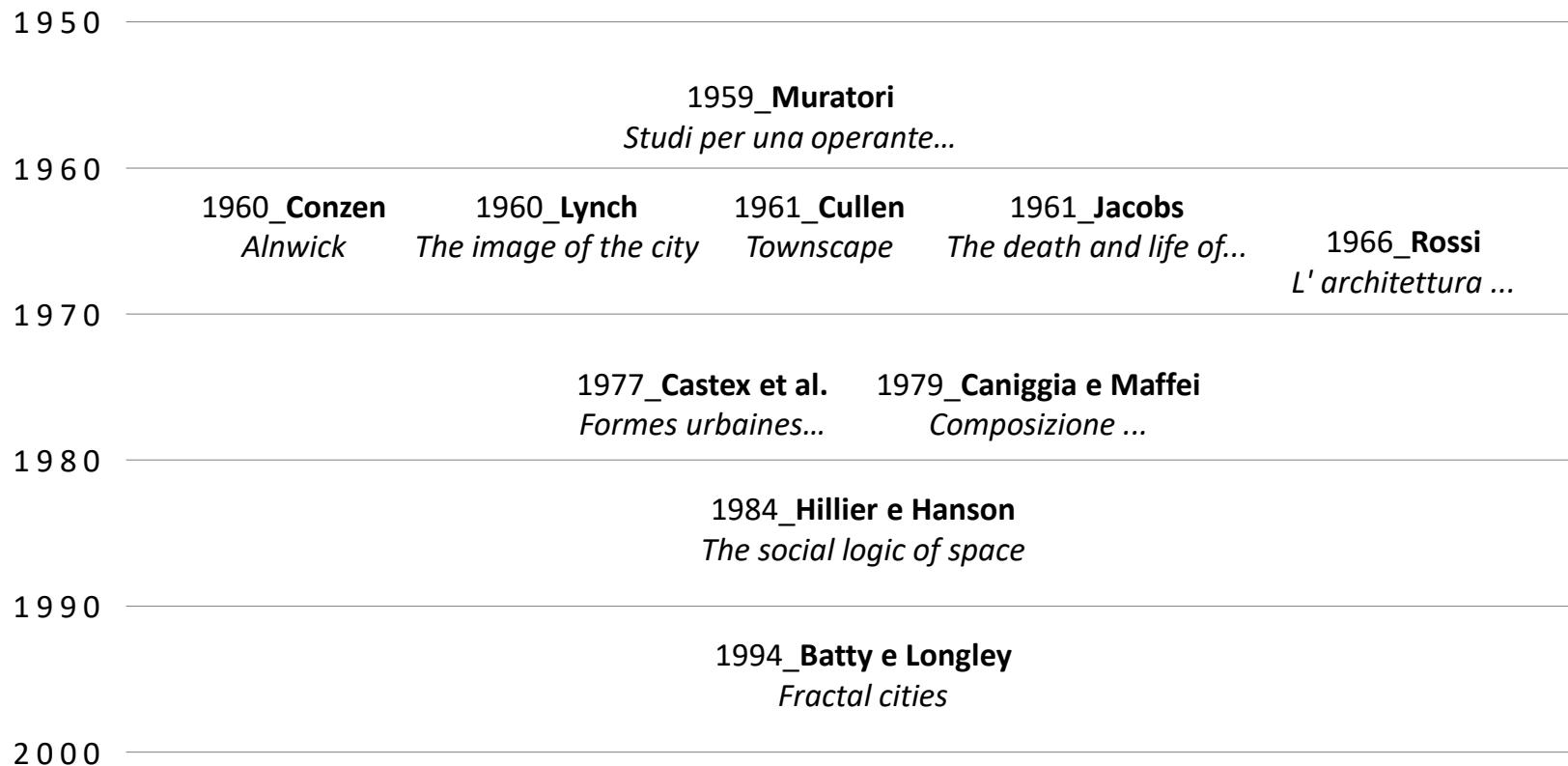


Sydney (photograph: author)

THE STUDY OF URBAN FORM: DIFFERENT APPROACHES
O ESTUDO DA FORMA URBANA: DIFERENTES ABORDAGENS

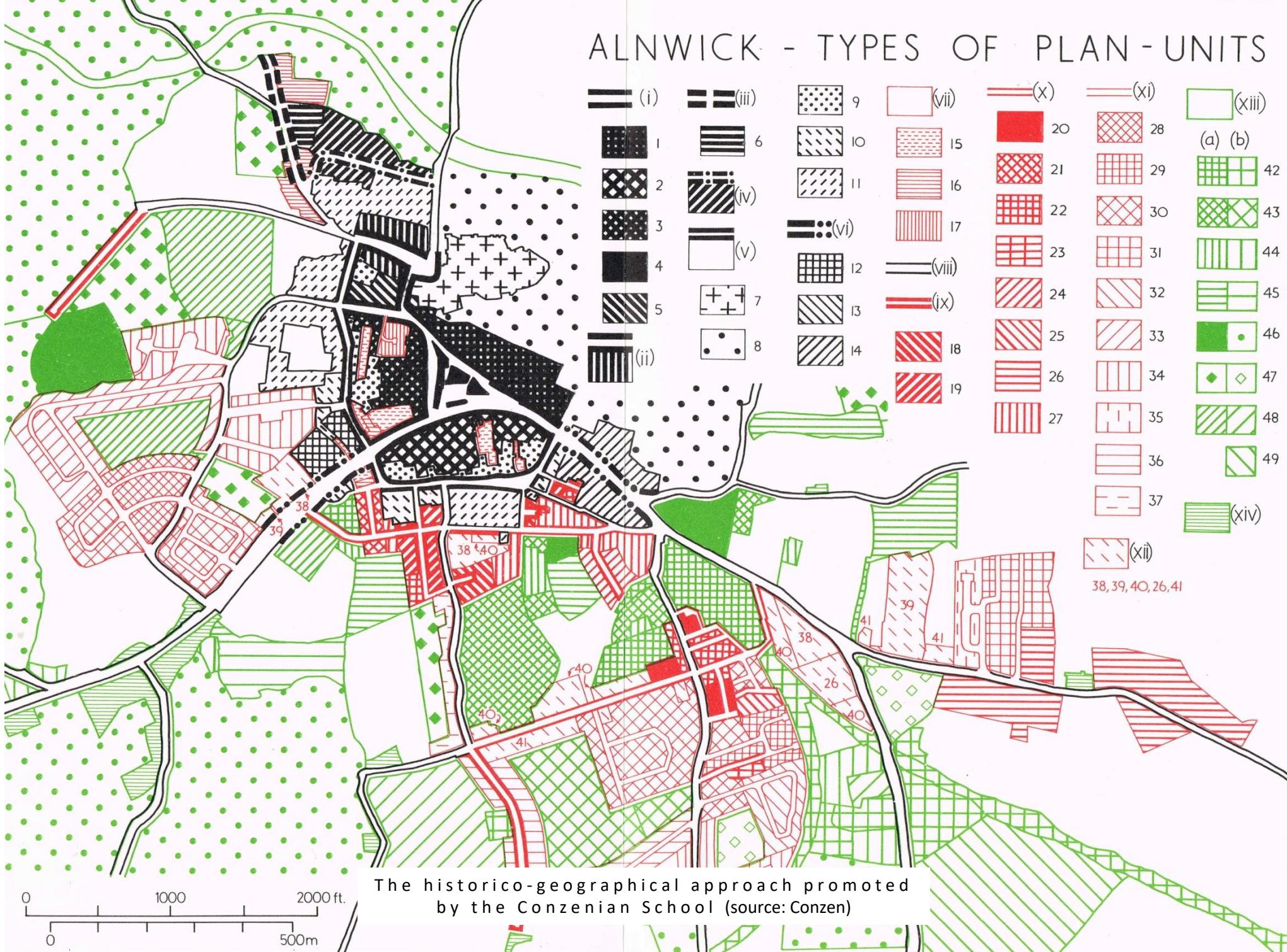
Classics in urban morphology and urban studies

Clássicos em morfologia urbana e estudos urbanos



ALNWICK - TYPES OF PLAN-UNITS

	(i)		(iii)		9		(vii)		(x)		(xi)		(xiii)
	1		6		10		15		20		28		(a) (b)
	2		(iv)		11		16		21		29		42
	3		(v)		12		17		22		30		43
	4		(vi)		13		(viii)		23		31		44
	5		(vii)		14		(ix)		24		32		45
	(ii)		(viii)		15		25		26		33		46
					16		27		34		35		47
					17		35		36		37		48
					18		36		38		38		49
					19		37		39		(xii)		50
												38, 39, 40, 26, 41	



0 1000 2000 ft.
0 500m

The historico-geographical approach promoted
by the Conzenian School (source: Conzen)

TAV. III
QUARTIERE
DI S. GIOVANNI GRISOSTOMO
Scala 1 : 1000



I FASE: SEC. XI-XII (tratti in nero)

II FASE: SEC. XIV (tratti in nero)



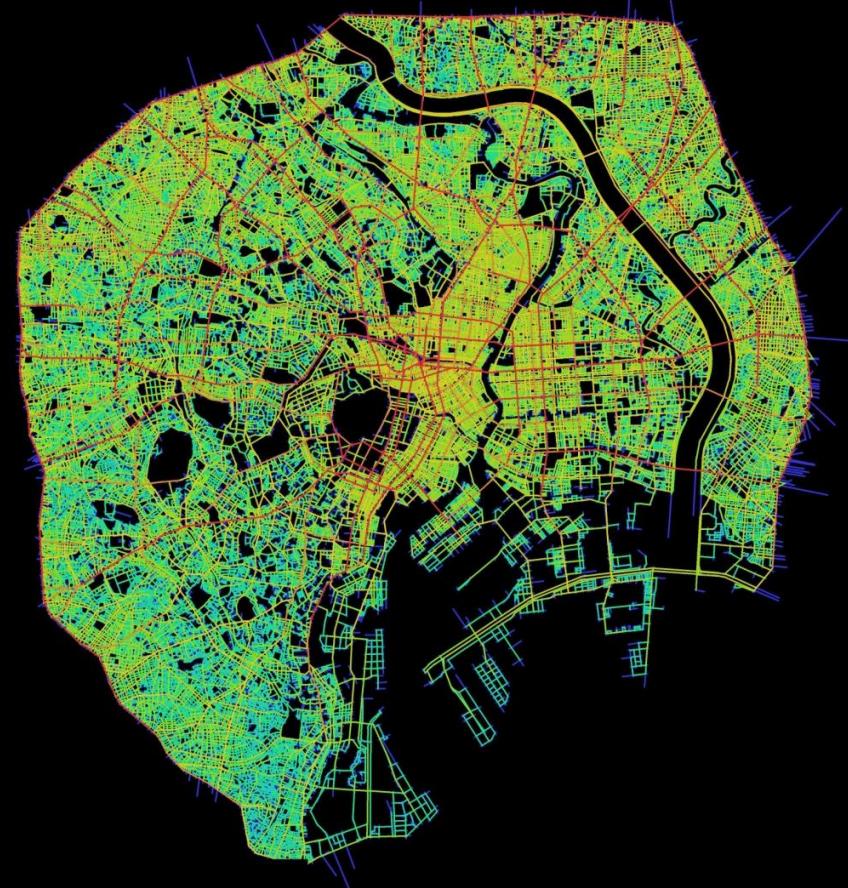
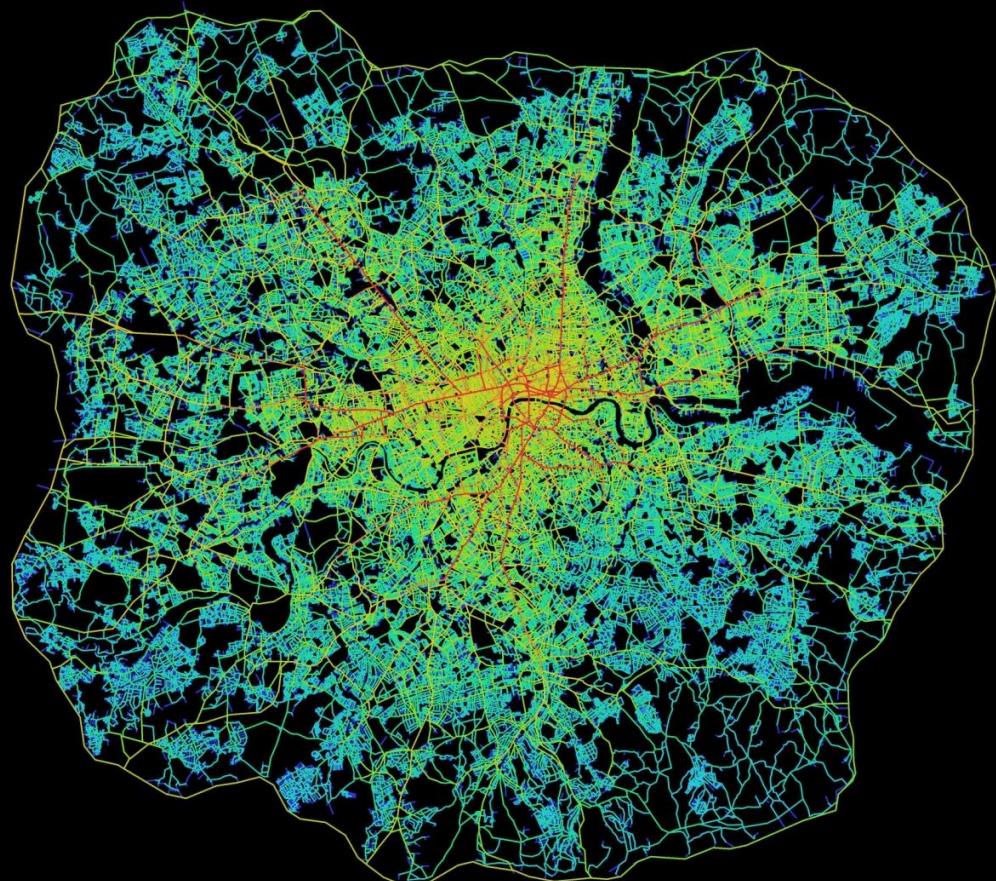
III FASE: SEC. XVI (tratti in nero)



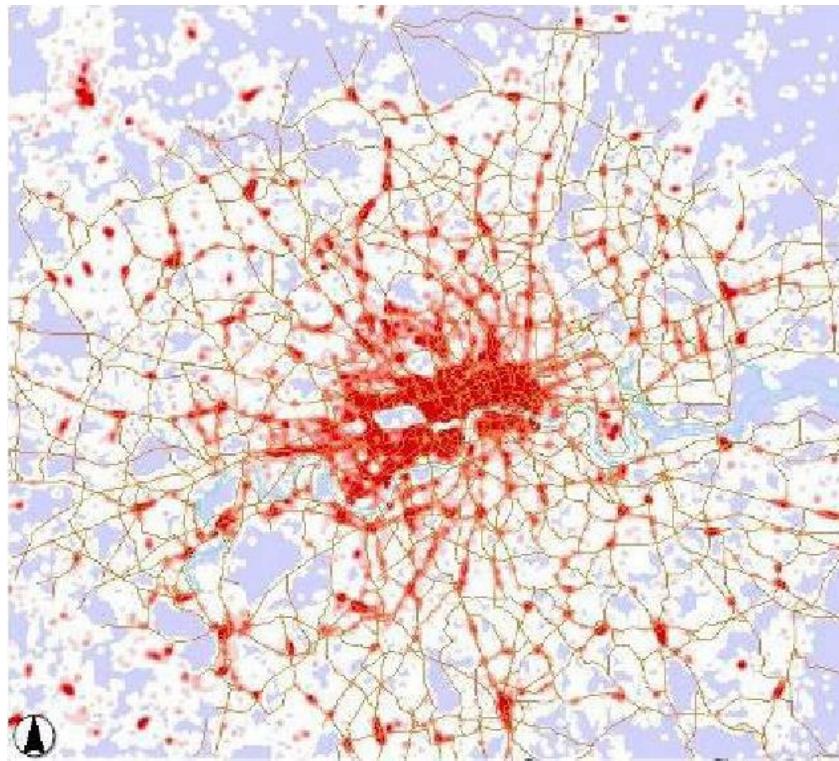
IV FASE: SITUAZIONE ATTUALE



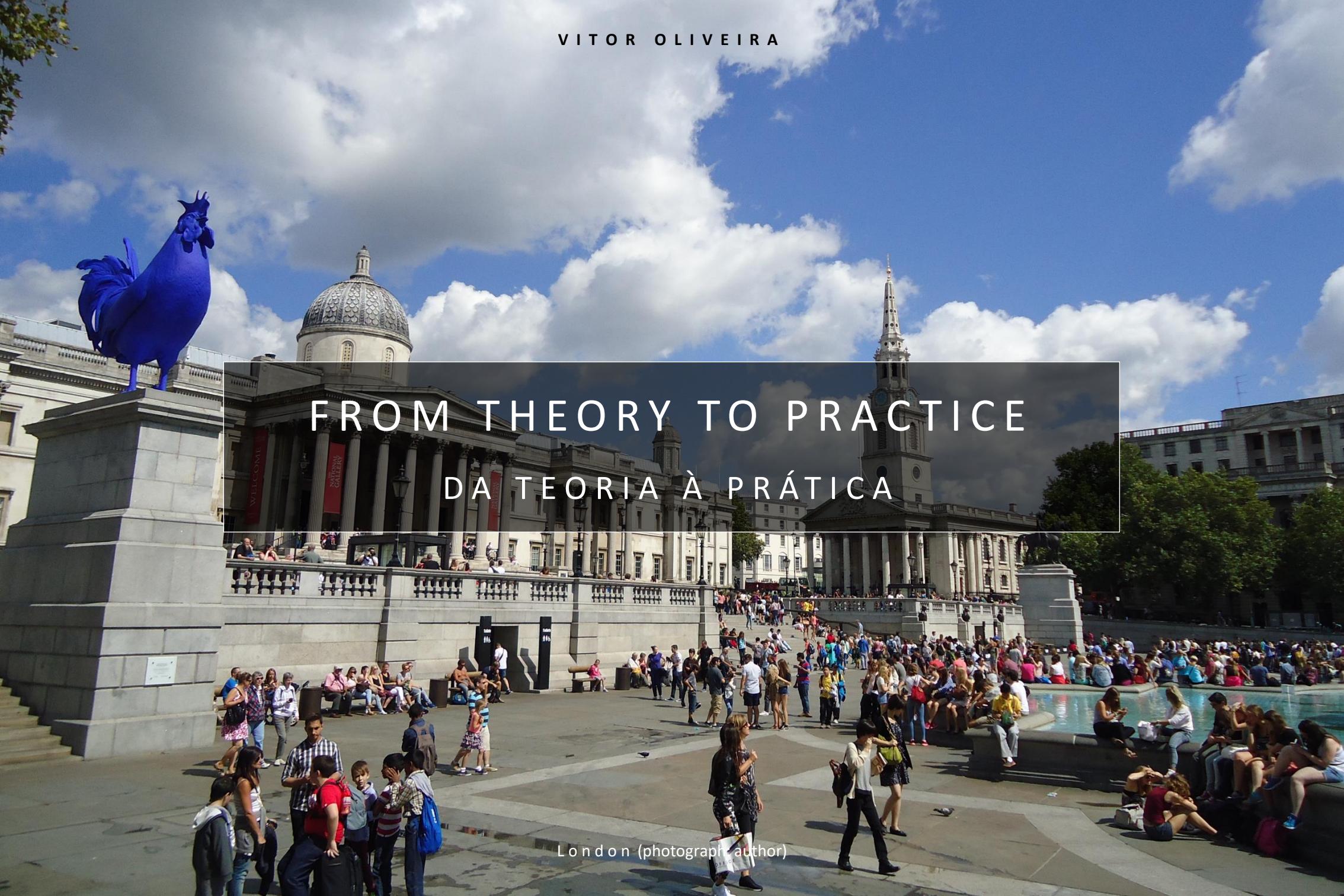
The process typological approach promoted by the
Muratorian School (source: Muratori)



Space syntax (source: Hillier)



Spatial analysis (source: Batty)



FROM THEORY TO PRACTICE
DA TEORIA À PRÁTICA

London (photograph: author)

What is this for?

Para que é que isto serve?

What is the utility of urban morphology to our
cities, societies and economies?

Qual a utilidade da morfologia urbana para as nossas
cidades, sociedades e economias?

ESTUARIO III.

CONCORSO PER IL PIANO URBANISTICO DI MASSIMA PER IL QUARTIERE RESIDENZIALE A BARENE DI S.GIULIANO VENEZIA

TAVOLA 4





Millenium Bridge in London, Norman Foster and Space Syntax Lda (photograph: author)

RELATIONSHIPS WITH OTHER FIELDS OF KNOWLEDGE
RELAÇÕES COM OUTROS CAMPOS DO CONHECIMENTO

Rome (photograph: author)



Contributions of urban morphology to our collective life in cities

Contributos da morfologia urbana para a nossa vida coletiva nas cidades

This is a course on cities; on their physical form and on how we describe, explain and act on this physical form.

Este é um curso sobre cidades; sobre a sua forma física e sobre o modo como descrevemos, explicamos e agimos sobre esta forma física.

It is also an introduction to a remarkable body of knowledge with one century of life.

É também uma introdução a um notável corpo de conhecimento com um século de vida.

As such, it should be able to lead you to many notable authors that have been publishing since the birth of urban morphology in Central Europe in the turning from the 19th to the 20th century.

Como tal, deve ser capaz de conduzir-nos por muitos autores notáveis que têm vindo a trabalhar desde o inicio da morfologia urbana, na Europa Central, na passagem do século XIX para o século XX.

It should also encourage you to visit and enjoy cities in different parts of the world and to contribute to make your city a better city.

Deve também encorajar-nos a visitar cidades em diferentes partes do mundo e a contribuir para melhorar a nossa cidade.



Marrakesh (photograph: author)