



Institute for
advanced
architecture
of Catalonia



MANY SLOW CITIES
INTO
A SMART CITY

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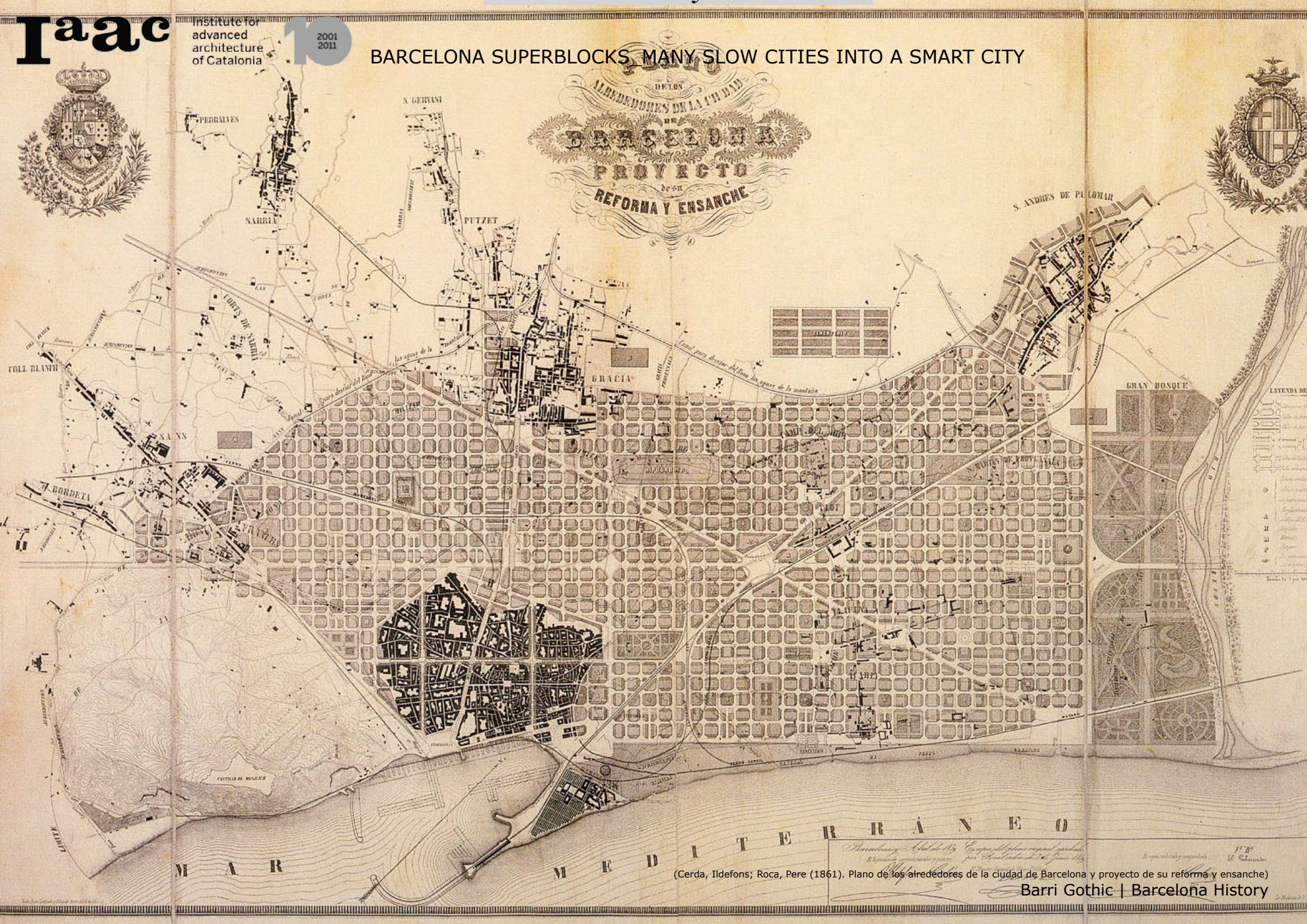
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Alejandro Nuñez López

A CITY WITHIN THE CITY

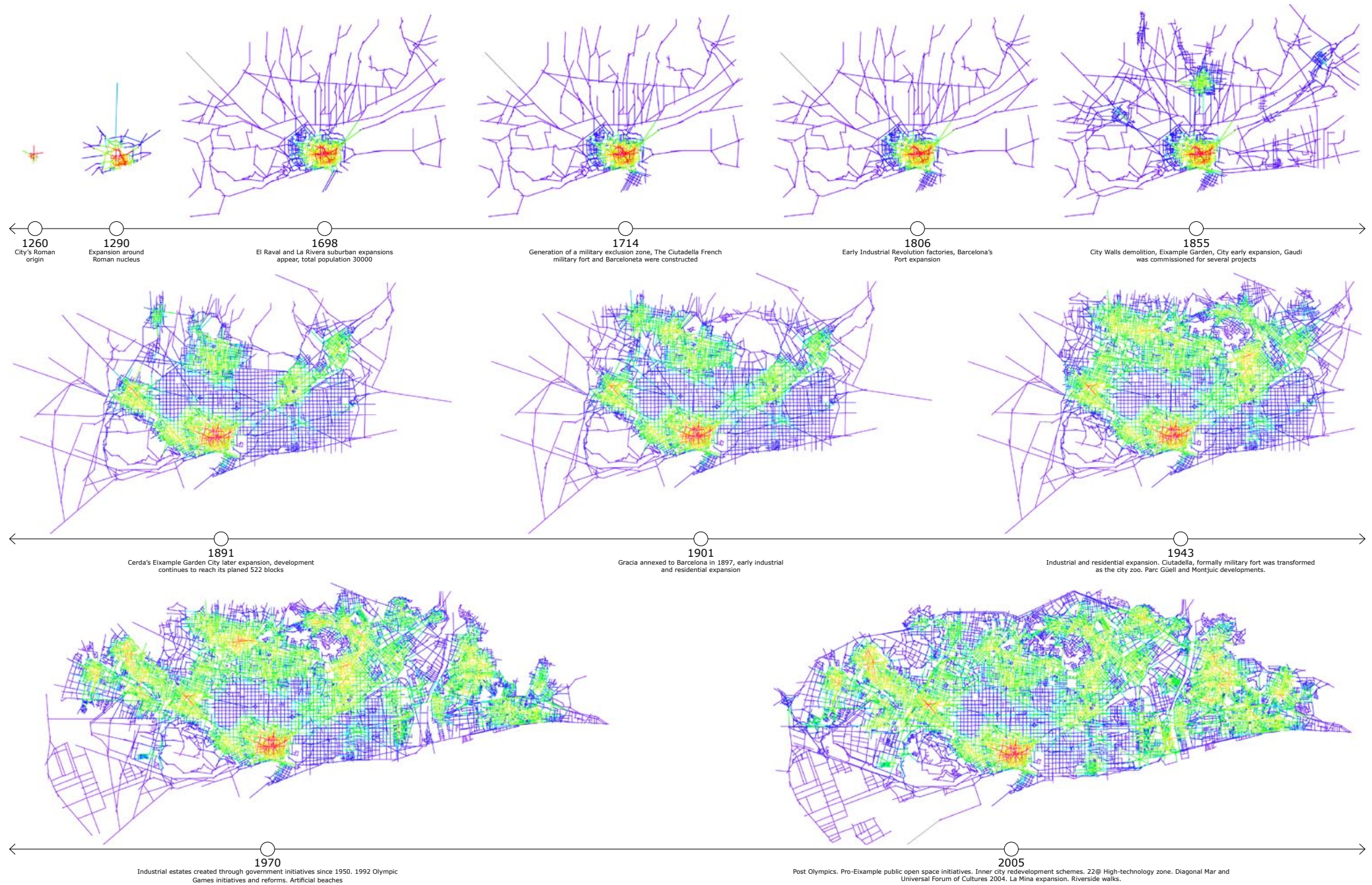
Introductory Studio MID TERM

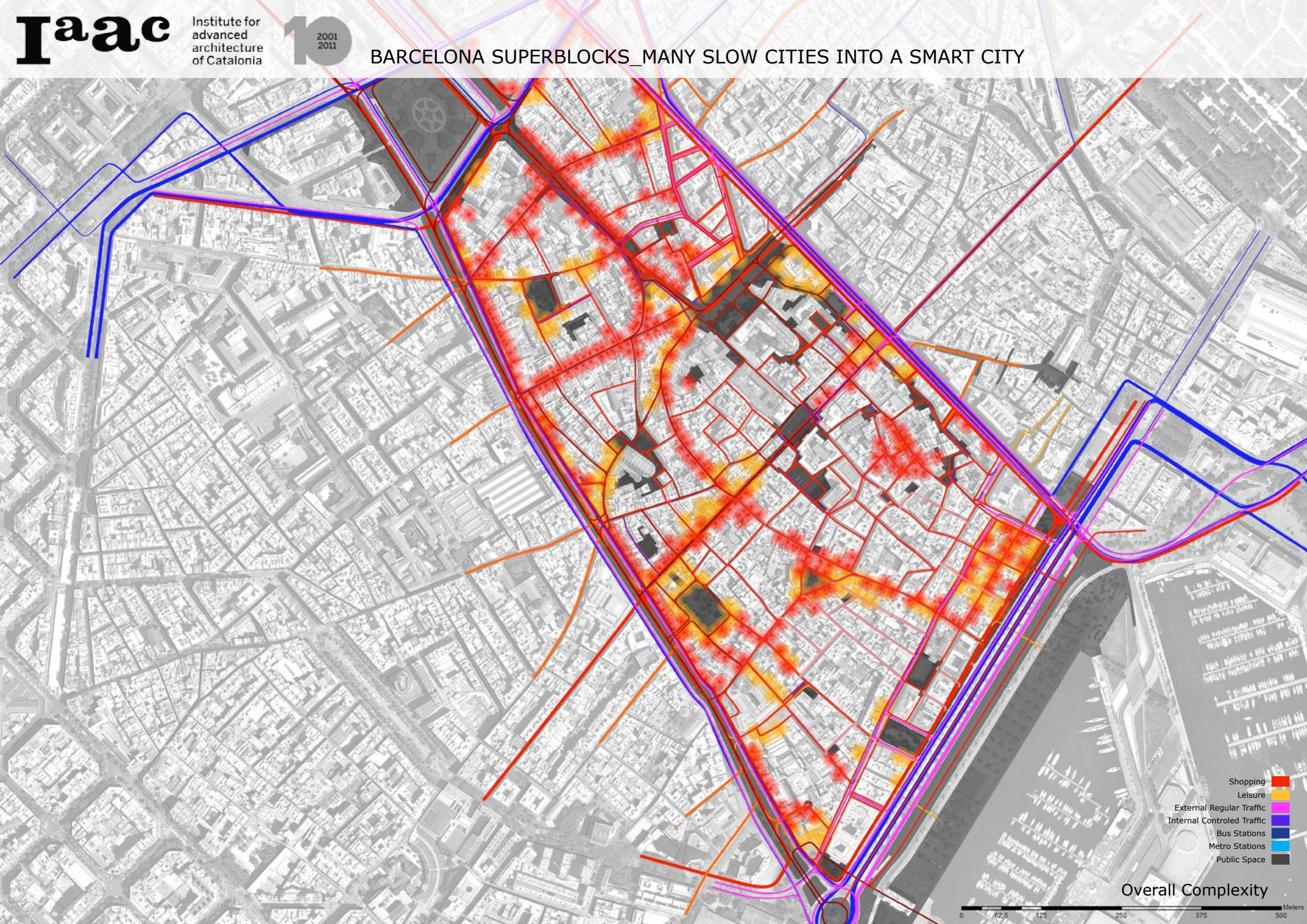
BARCELONA SUPERBLOCKS. MANY SLOW CITIES INTO A SMART CITY



(Cerdà, Ildefons; Roca, Pere (1861). Plano de los alrededores de la ciudad de Barcelona y proyecto de su reforma y ensanche)

BARCELONA SUPERBLOCKS_MANY SLOW CITIES INTO A SMART CITY



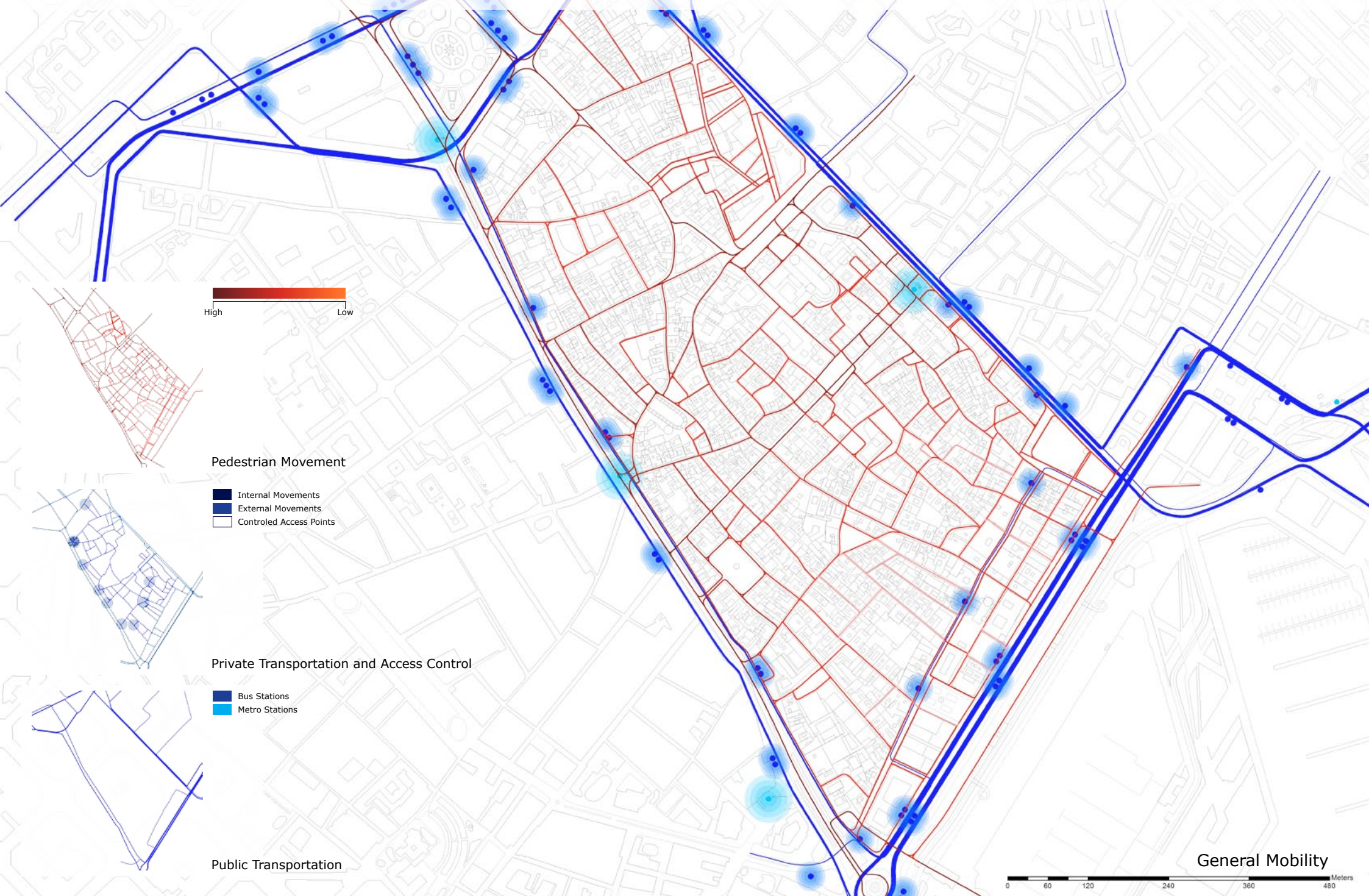


- Shopping
- Leisure
- External Regular Traffic
- Internal Controlled Traffic
- Bus Stations
- Metro Stations
- Public Space

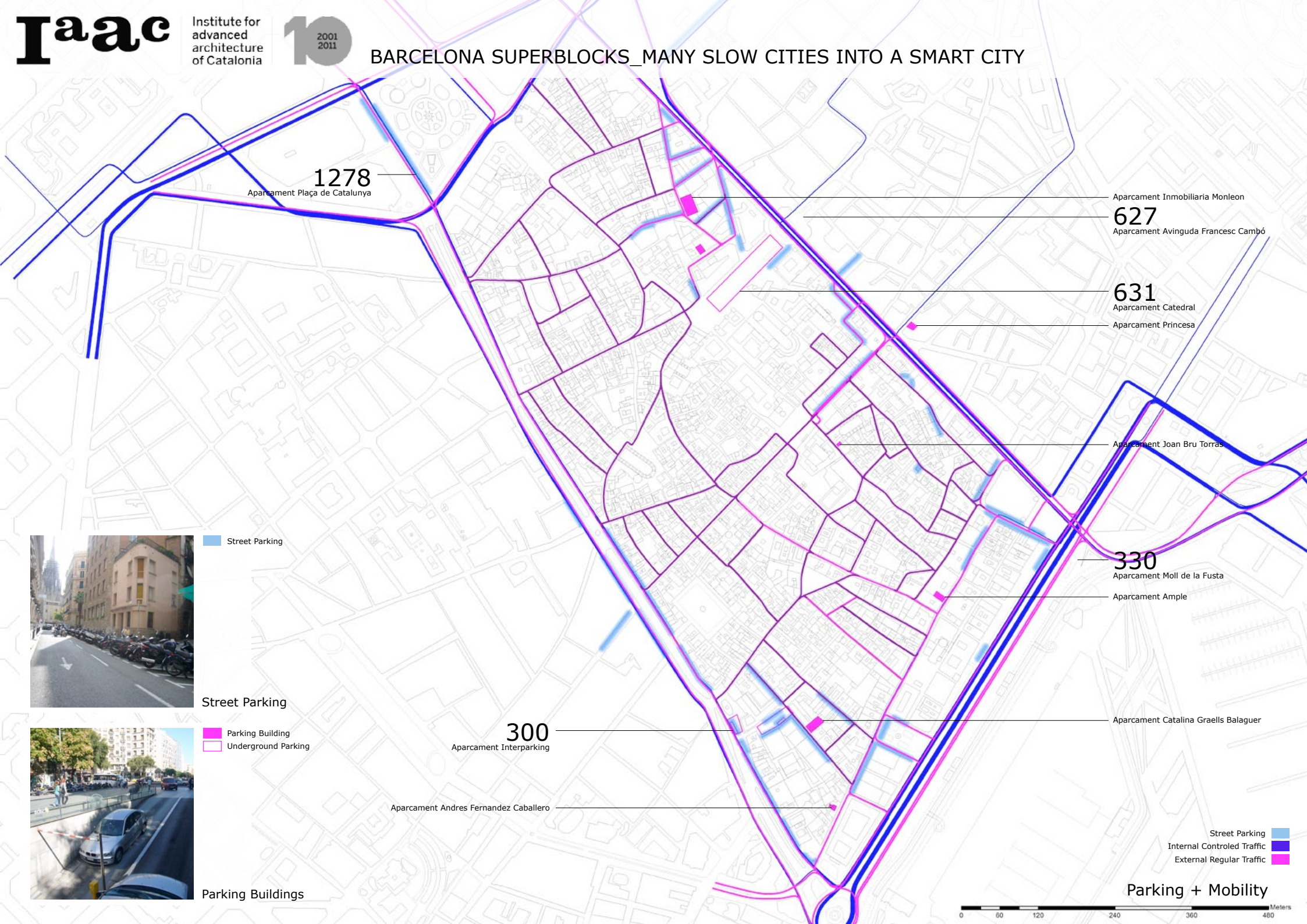
Overall Complexity

0 62.5 125 250 375 500 Meters

BARCELONA SUPERBLOCKS_MANY SLOW CITIES INTO A SMART CITY



BARCELONA SUPERBLOCKS_MANY SLOW CITIES INTO A SMART CITY



Street Parking



Parking Buildings

Street Parking

- Parking Building
- Underground Parking

300
Aparcament Interparking

Aparcament Andres Fernandez Caballero

Aparcament Inmobiliaria Monleon
627
Aparcament Avinguda Francesc Cambó

631
Aparcament Catedral
Aparcament Princesa

Aparcament Joan Bru Torras

330
Aparcament Moll de la Fusta
Aparcament Ample

Aparcament Catalina Graells Balaguer

- Street Parking
- Internal Controlled Traffic
- External Regular Traffic

Parking + Mobility



BARCELONA SUPERBLOCKS_MANY SLOW CITIES INTO A SMART CITY



1
The Tourist



2
The People



3
The Power



The People
Plaza Real

The Tourist
Carrer de Ferran

The Power
Palacio de la Generalidad

- Shopping
- Leisure
- Education
- History
- Culture
- Public Offices

Mobility + Activities



BARCELONA SUPERBLOCKS_MANY SLOW CITIES INTO A SMART CITY



1
Plaza Catalunya
Passeig de Gracia
Urquinaona
Universitat



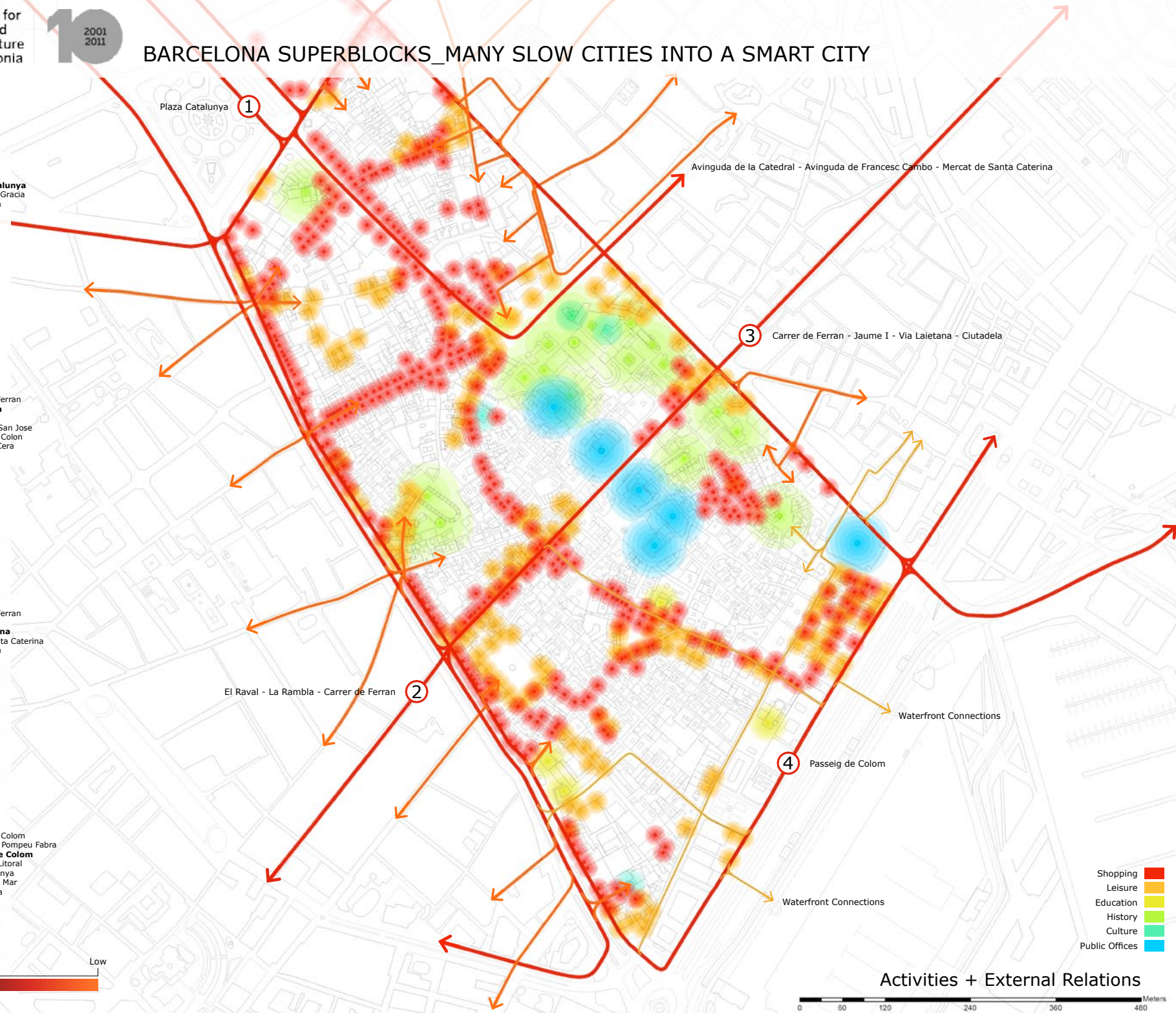
2
Carrer de Ferran
La Rambla
Liceu
Mercat de San Jose
Estatua de Colon
Museo de Cera
El Raval



3
Carrer de Ferran
Jaume I
Via Laietana
Mercat Santa Caterina
Urquinaona
Ciutadela



4
Correos
Estatua de Colom
Universitat Pompeu Fabra
Passeig de Colom
Ronda del Litoral
Mall d'Espanya
Rambla del Mar
Barceloneta



- Shopping
- Leisure
- Education
- History
- Culture
- Public Offices

Activities + External Relations

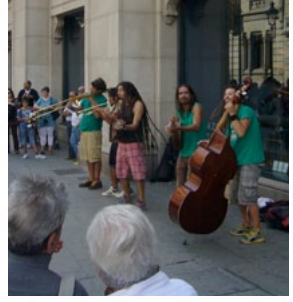
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Informal Uses
Commerce



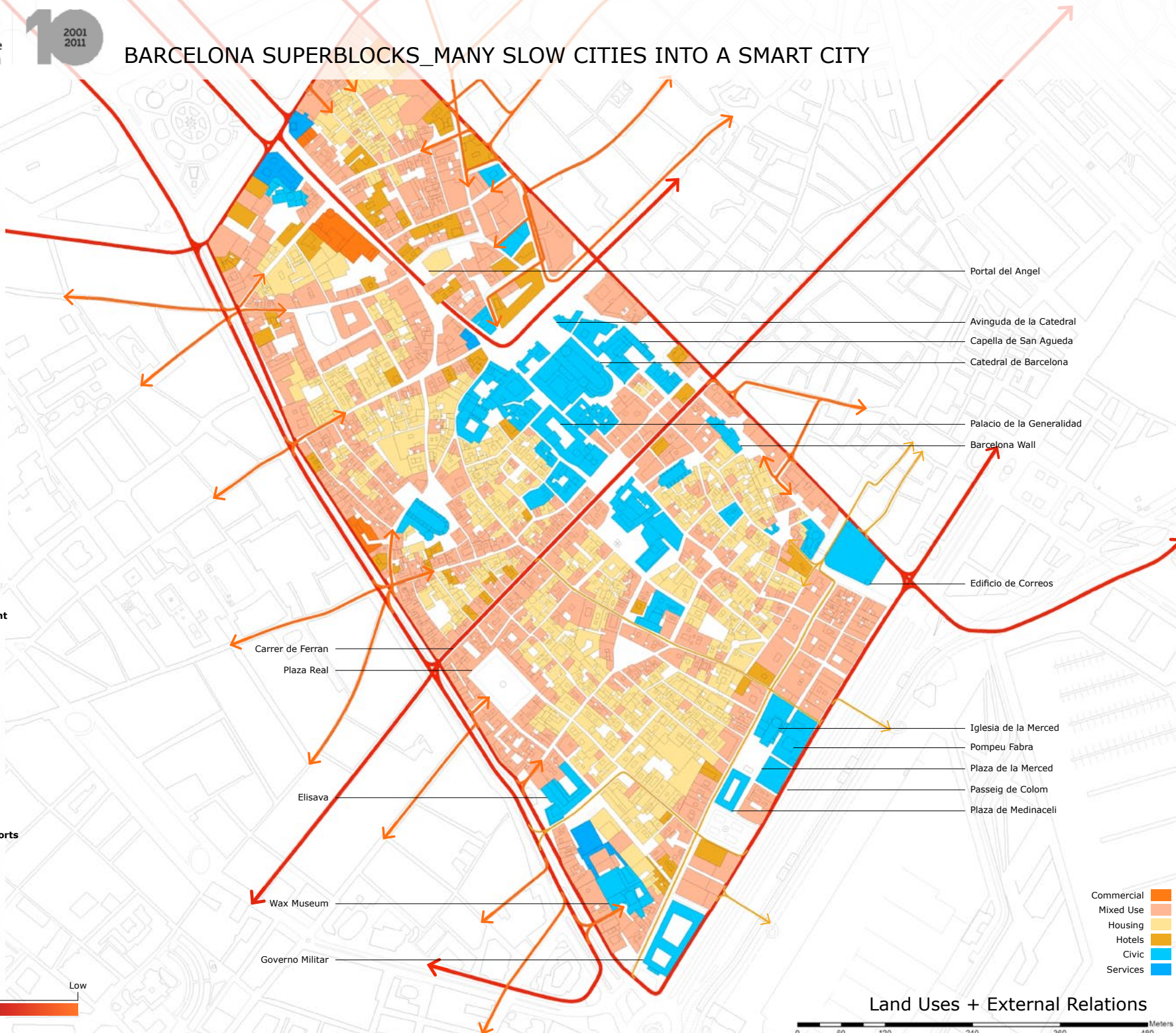
Informal Uses
Art + Crafts



Informal Uses
Entertainment

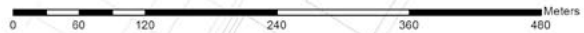


Informal Uses
Leisure + Sports

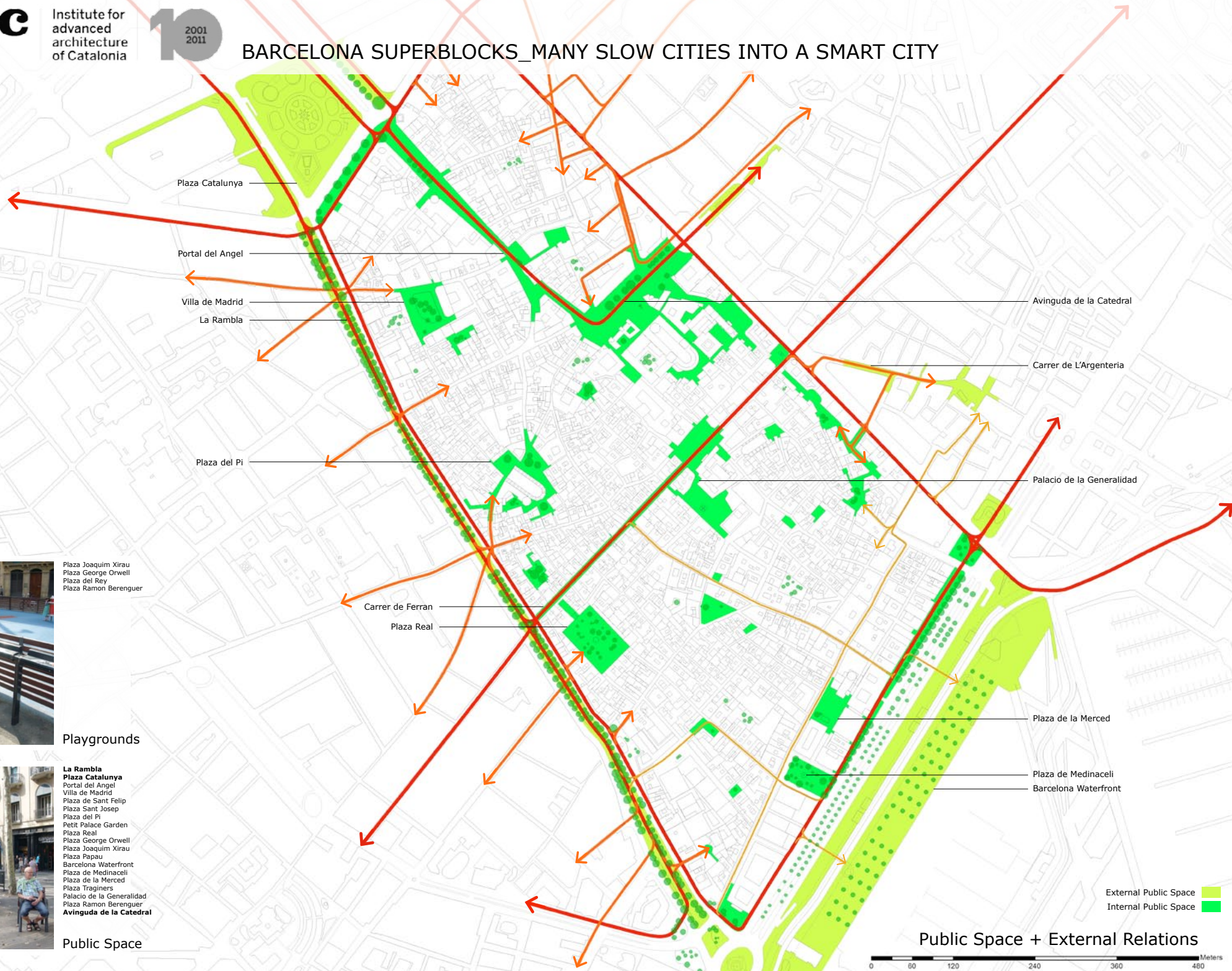


- Commercial
- Mixed Use
- Housing
- Hotels
- Civic
- Services

Land Uses + External Relations



BARCELONA SUPERBLOCKS_MANY SLOW CITIES INTO A SMART CITY



Plaza Joaquim Xirau
Plaza George Orwell
Plaza del Rey
Plaza Ramon Berenguer

Playgrounds



La Rambla
Plaza Catalunya
Portal del Angel
Villa de Madrid
Plaza de Sant Felip
Plaza Sant Josep
Plaza del Pi
Petit Palace Garden
Plaza Real
Plaza George Orwell
Plaza Joaquim Xirau
Plaza Papau
Barcelona Waterfront
Plaza de Medinaceli
Plaza de la Merced
Plaza Trainers
Palacio de la Generalidad
Plaza Ramon Berenguer
Avinguda de la Catedral

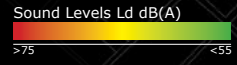
Public Space

Public Space + External Relations

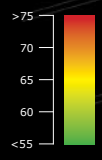
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Day Noise Index



Night Noise Index



Noise Map



BARCELONA SUPERBLOCKS_MANY SLOW CITIES INTO A SMART CITY



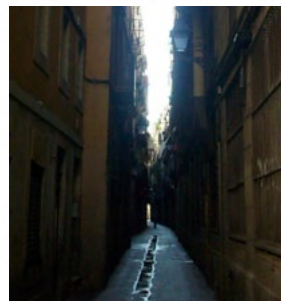
1|200m
Plaza Catalunya



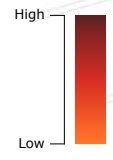
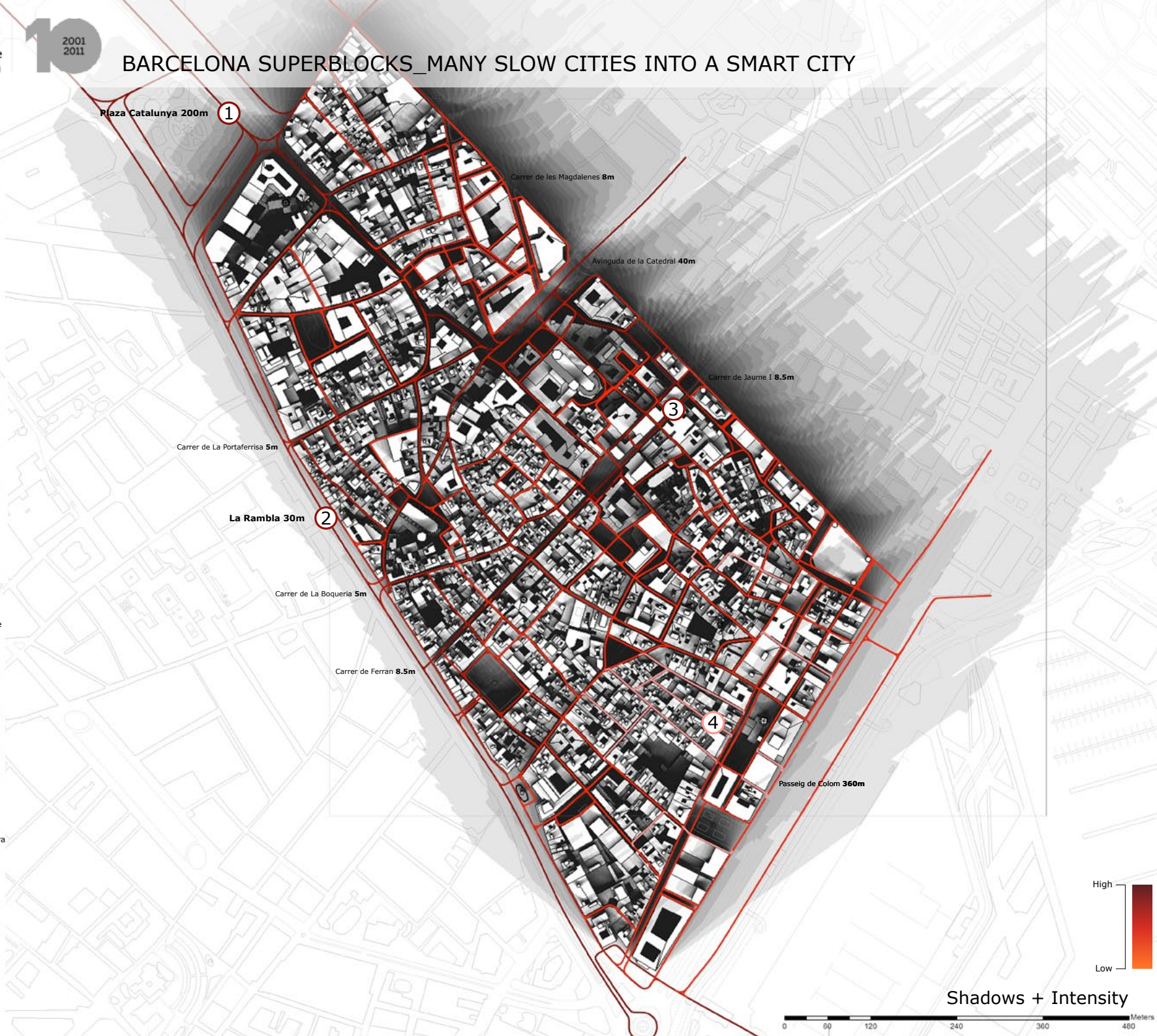
2|30m
La Rambla



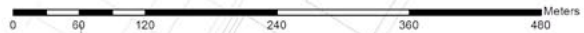
3|8.6m
Carrer del Jaume



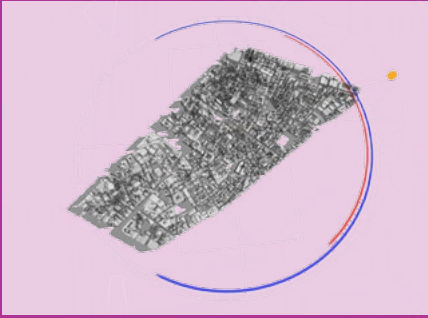
4|2.5m
Carrer d' En Serra



Shadows + Intensity

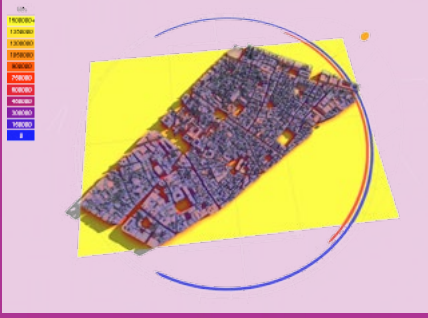


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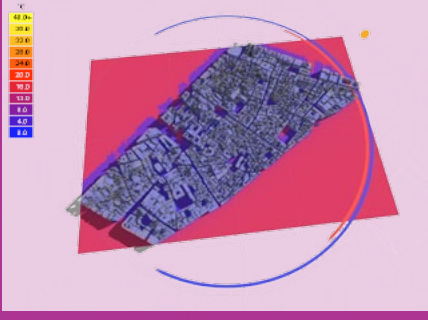
Shadow Analysis

Shadows during the year.



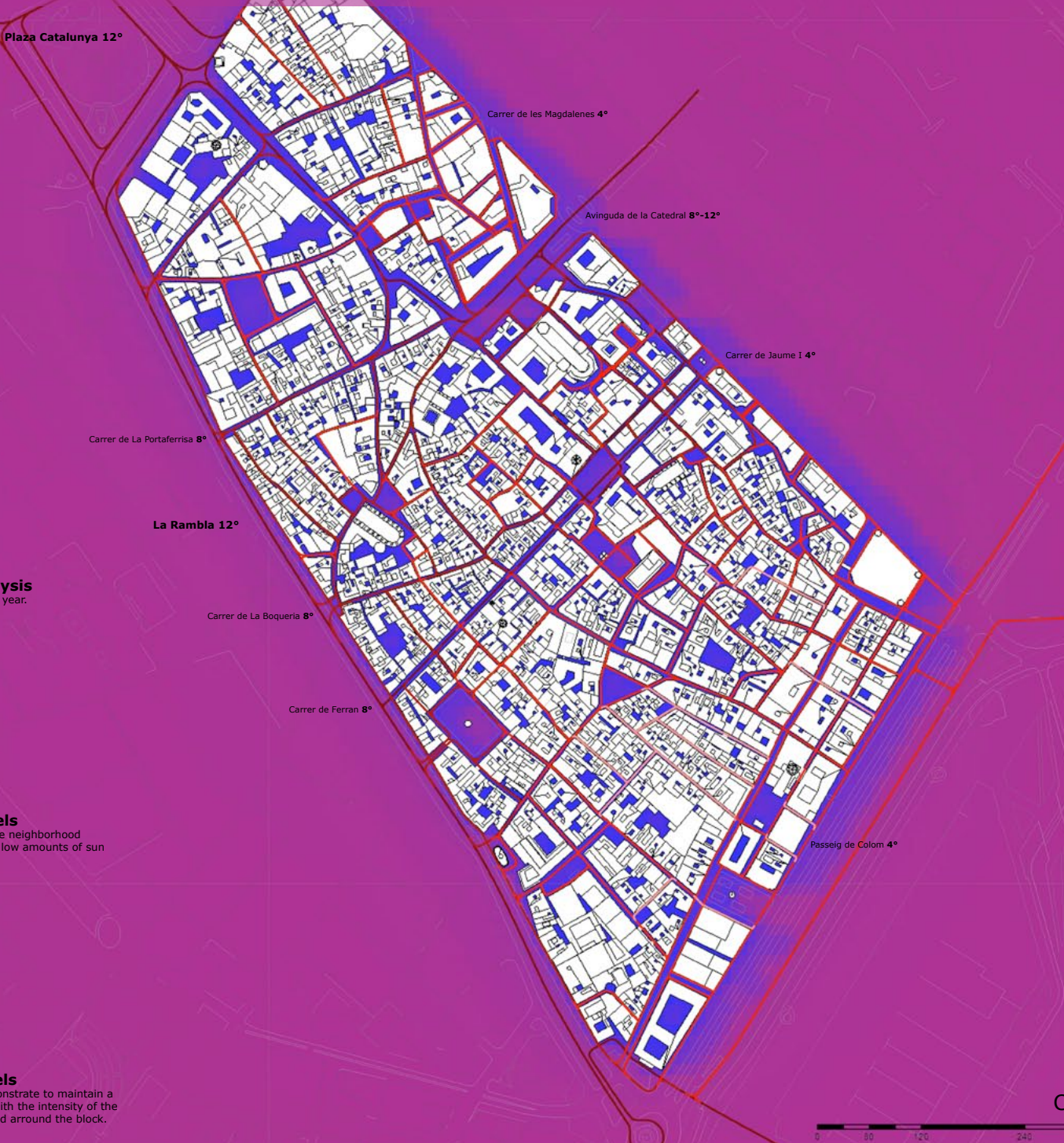
Lighting Levels

Buildings in the close neighborhood streets receive very low amounts of sun light.



Comfort Levels

Comfort levels demonstrate to maintain a direct relationship with the intensity of the space use, inside and around the block.



Comfort Analysis



STAKEHOLDERS

CITIZENS AND RESIDENTS ARE BOTH THE SUPERBLOCK STAKEHOLDERS

CITIZENS - TOURISTS - VISITORS - WORKING CLASS - CITY



RESIDENTS - FAMILIES - CHILDREN



EQUITY

GREENERY

SECURITY

PRIVACY

DYNAMIC

CONNECTIVITY

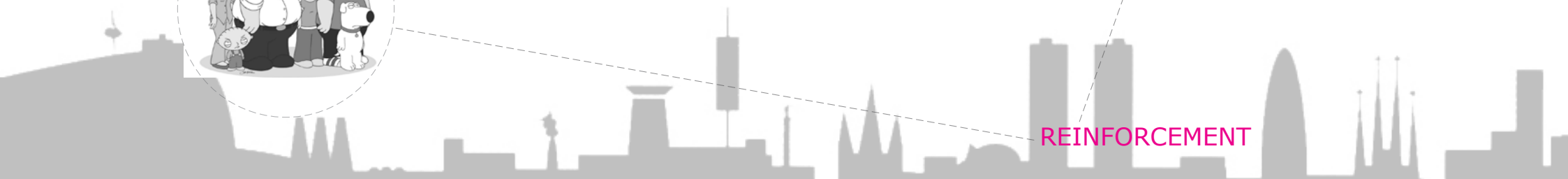
SAFETY

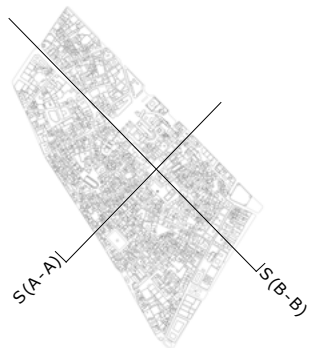
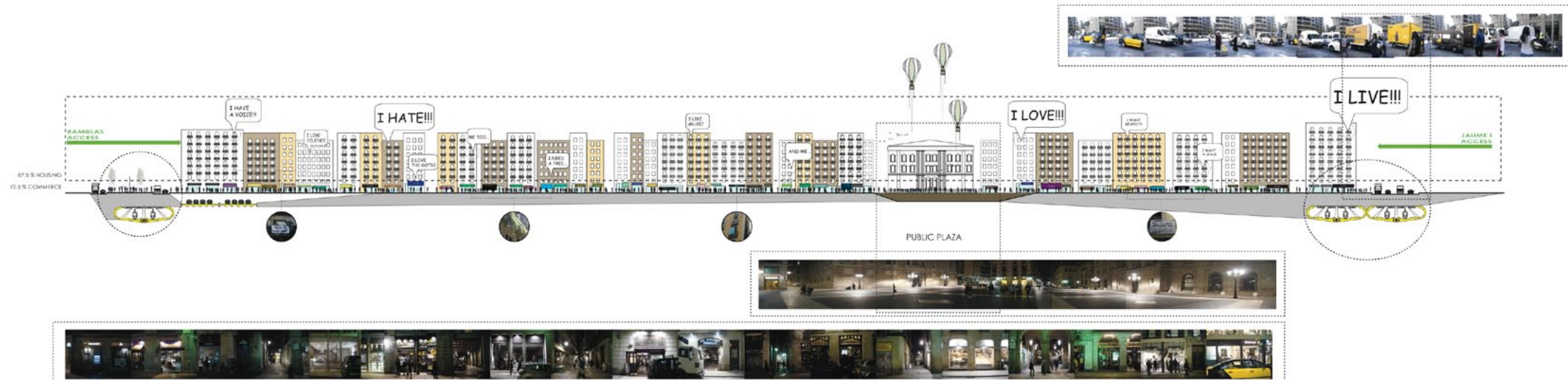
COMFORT

OPENNESS

NETWORK

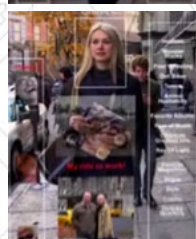
REINFORCEMENT







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1000m

500m

0

Control

Meters

0 60 120 240 360 480

