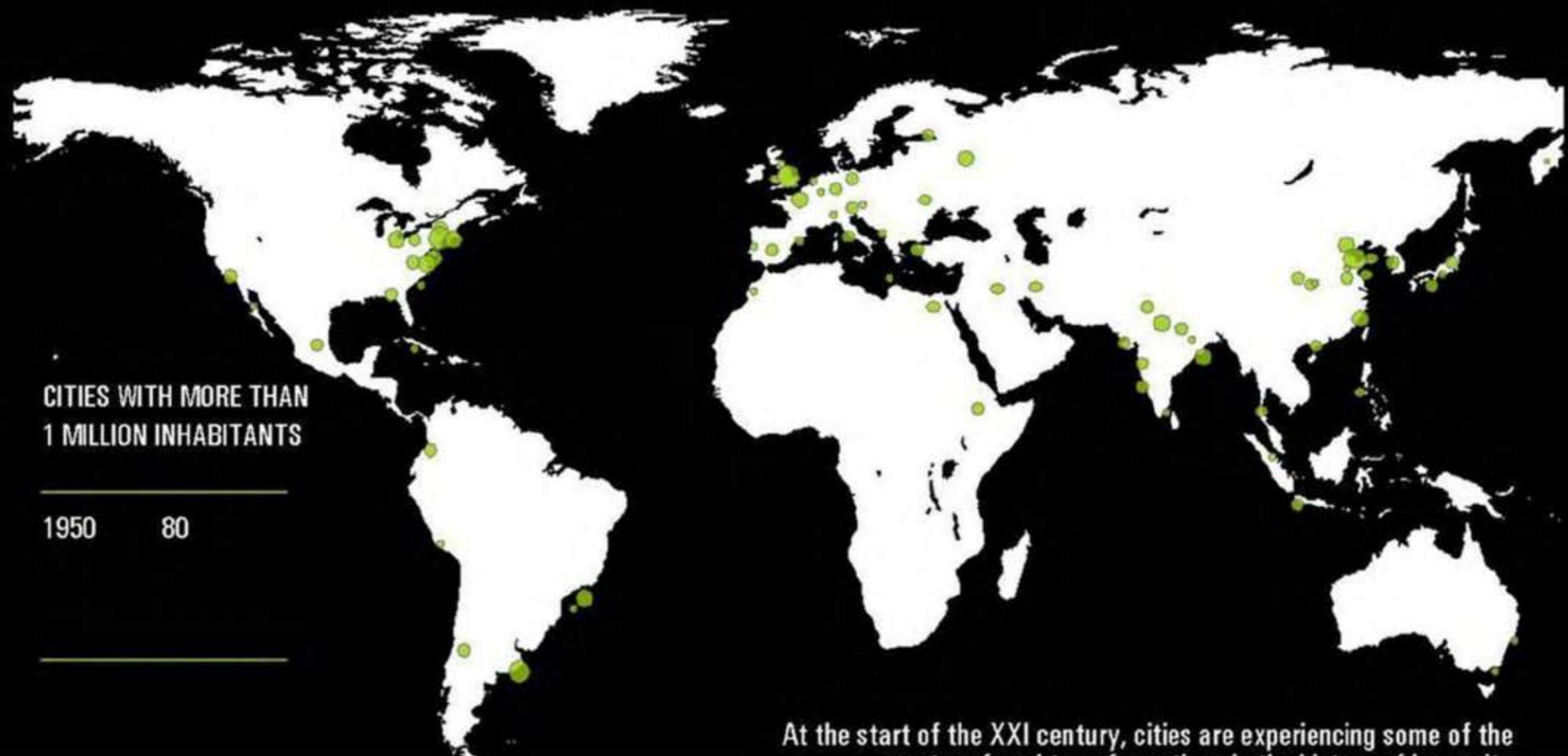
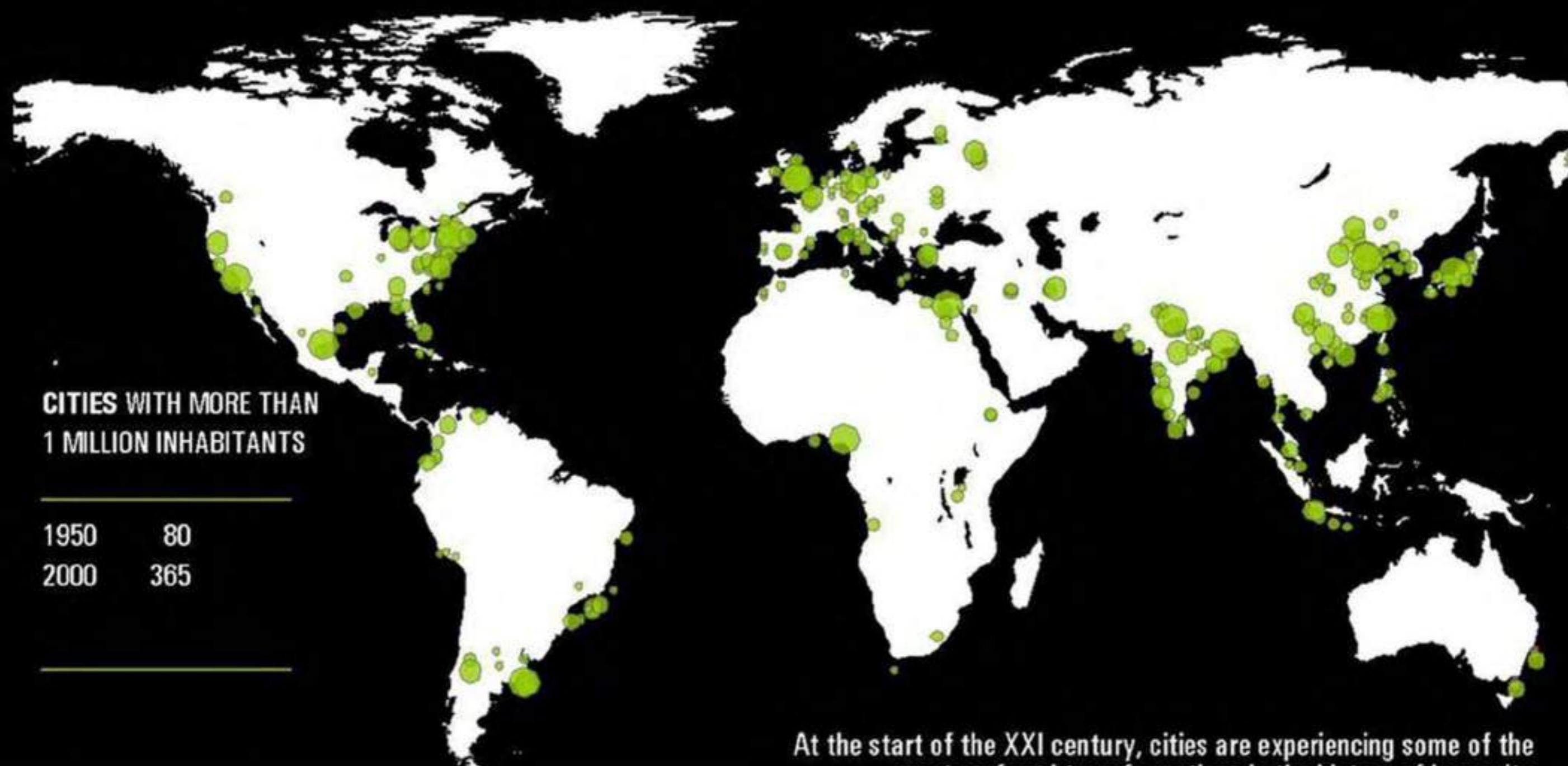


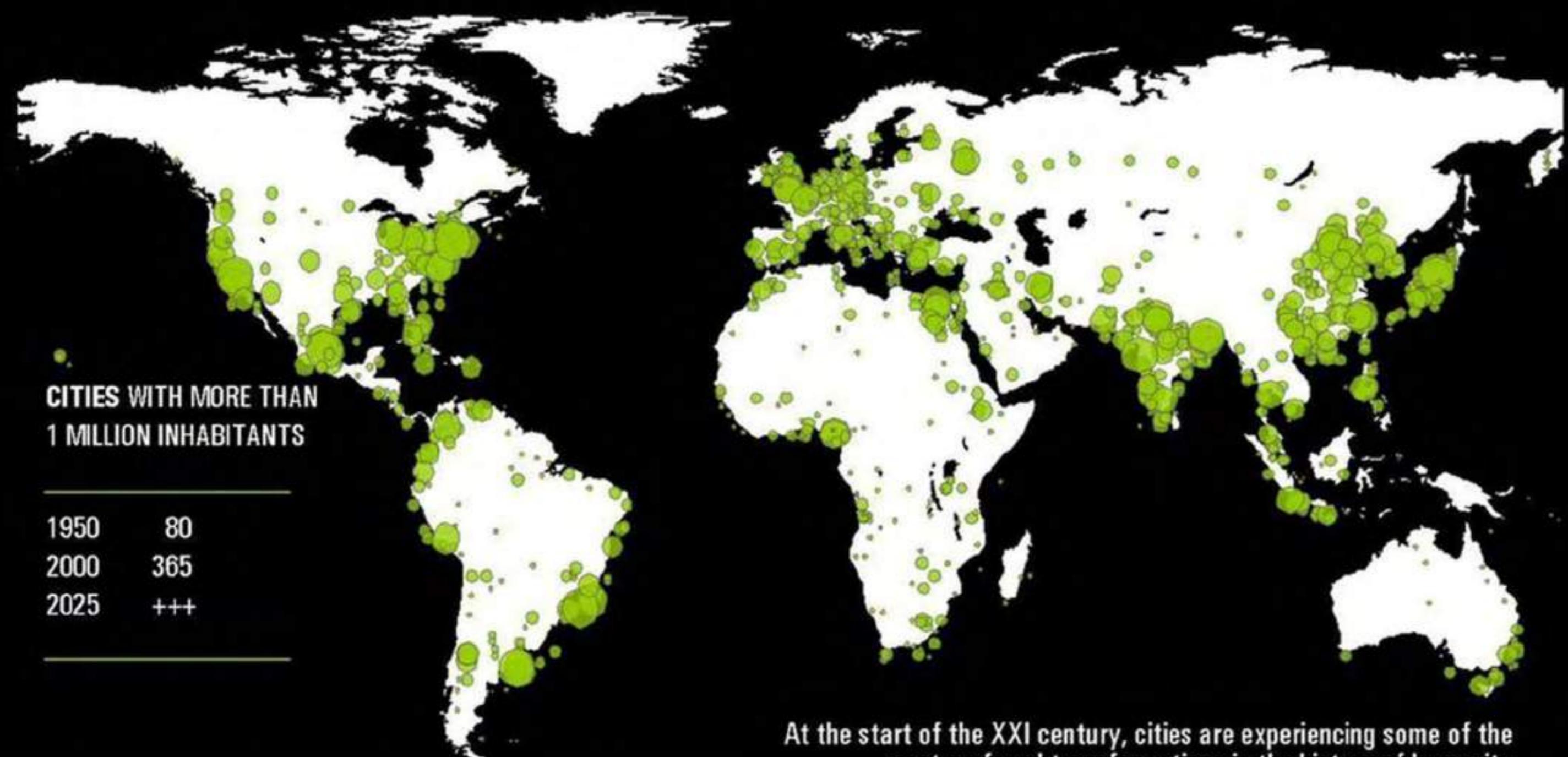
# LANDSCAPE INTELLIGENCE

Alfonso Vegara  
[www.fundacion-metropoli.org](http://www.fundacion-metropoli.org)



At the start of the XXI century, cities are experiencing some of the most profound transformations in the history of humanity







Fundación Metrópoli is an  
international centre of innovation  
in cities and regions



ECOBOX

# ECO BOX

BUILDING A SUSTAINABLE FUTURE





## Knowledge Creation and Sharing



HUB

>> **investigación**



LAB

>> **innovación**



ASMOA

>> **incubación**

I + D Territorial  
Learning from Cities  
Instituto de Alcaldes  
Fellowships  
Arte e Innovación  
Publicaciones  
Awards

## Knowledge Creation and Sharing



HUB

>> **investigación**

I + D Territorial  
Learning from Cities  
Instituto de Alcaldes  
Fellowships  
Arte e Innovación  
Publicaciones  
Awards

## New Ideas, New Projects



LAB

>> **innovación**

Estrategias Territoriales  
EcoCiudades  
Nodos de innovación  
Arquitecturas Avanzadas



ASMOA

>> **incubación**

**Knowledge Creation and Sharing**



**HUB**

**>> investigación**

I + D Territorial  
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**New Ideas, New Projects**



**LAB**

**>> innovación**

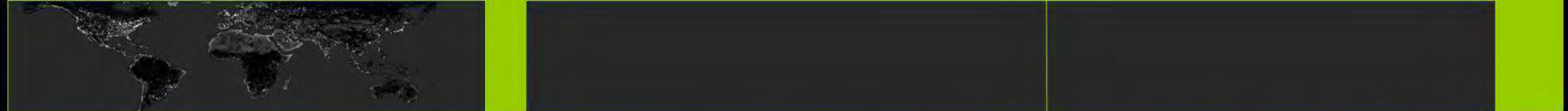
Estrategias Territoriales  
EcoCiudades  
Nodos de innovación  
Arquitecturas Avanzadas



**ASMOA**

**>> incubación**

Nuevas Empresas  
Agencias Zero  
Partenariados Público-Privados  
Fondos Verdes  
Capital Semilla



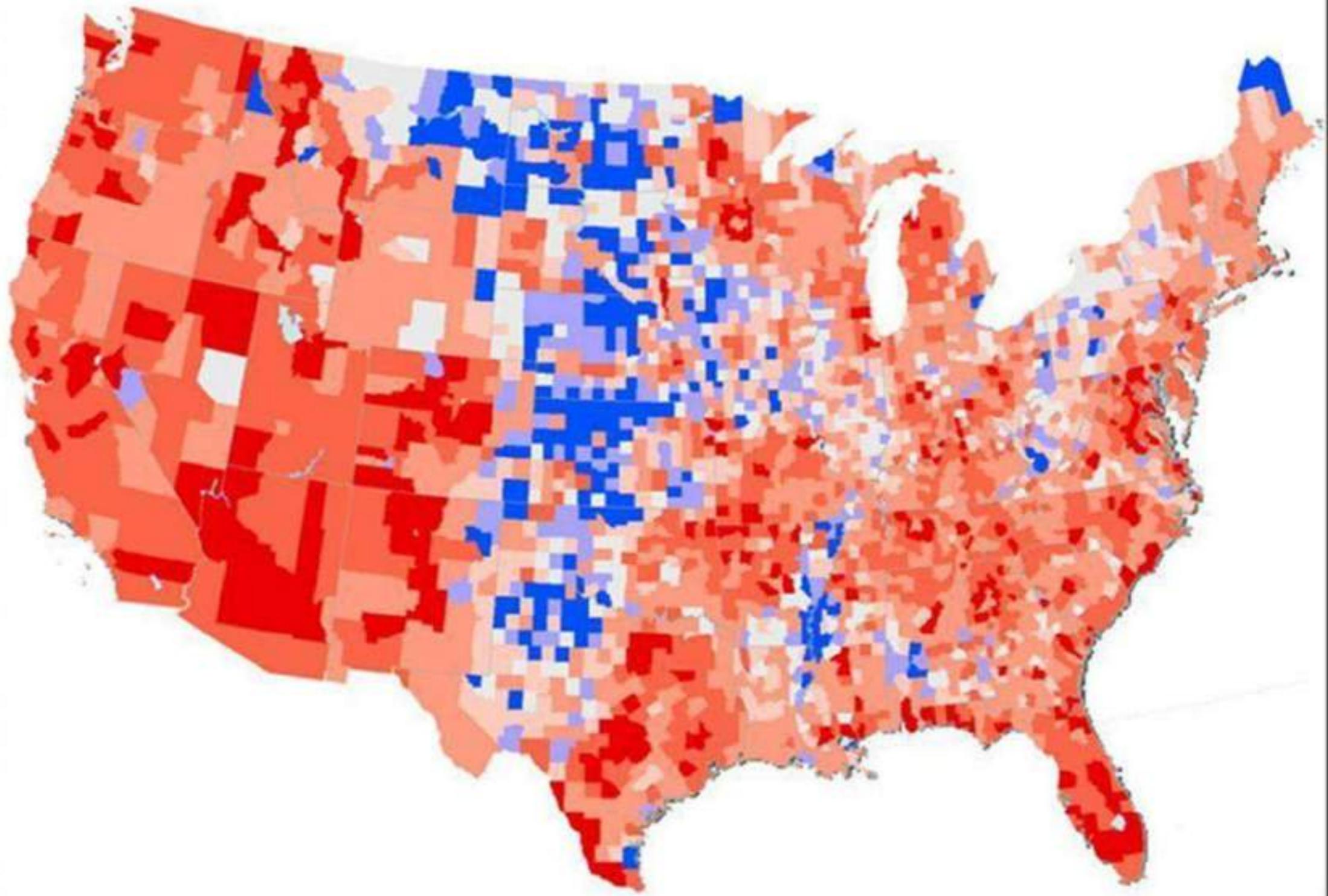
# FUNDACION METROPOLI



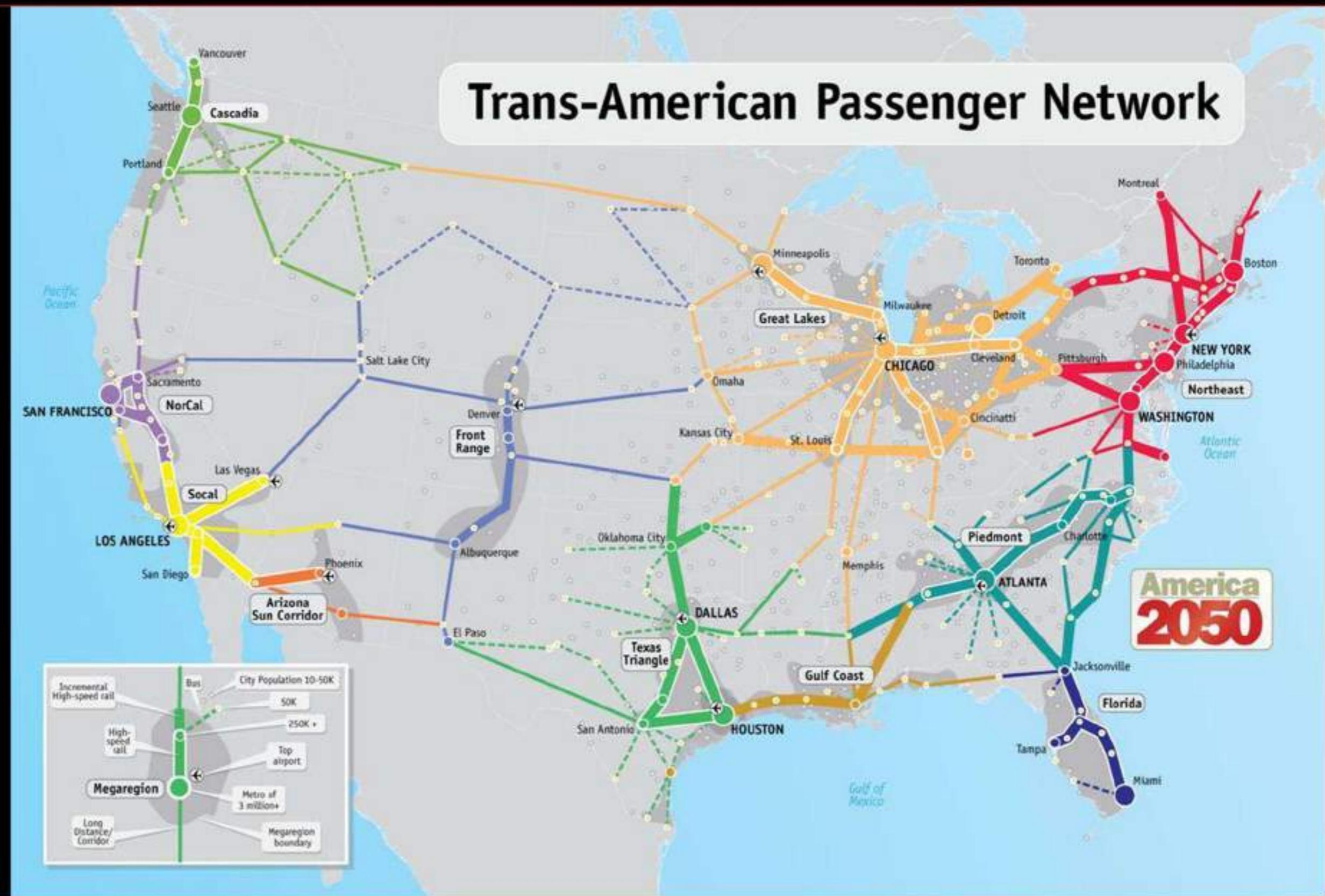
# NEW SCALE OF PLANNING

## SUPERCITIES

Population Growth  
IN USA (2000- 2050)



## AMERICA 2050 SUPERCITIES





**SUPERCITIES**  
10 Megaregions

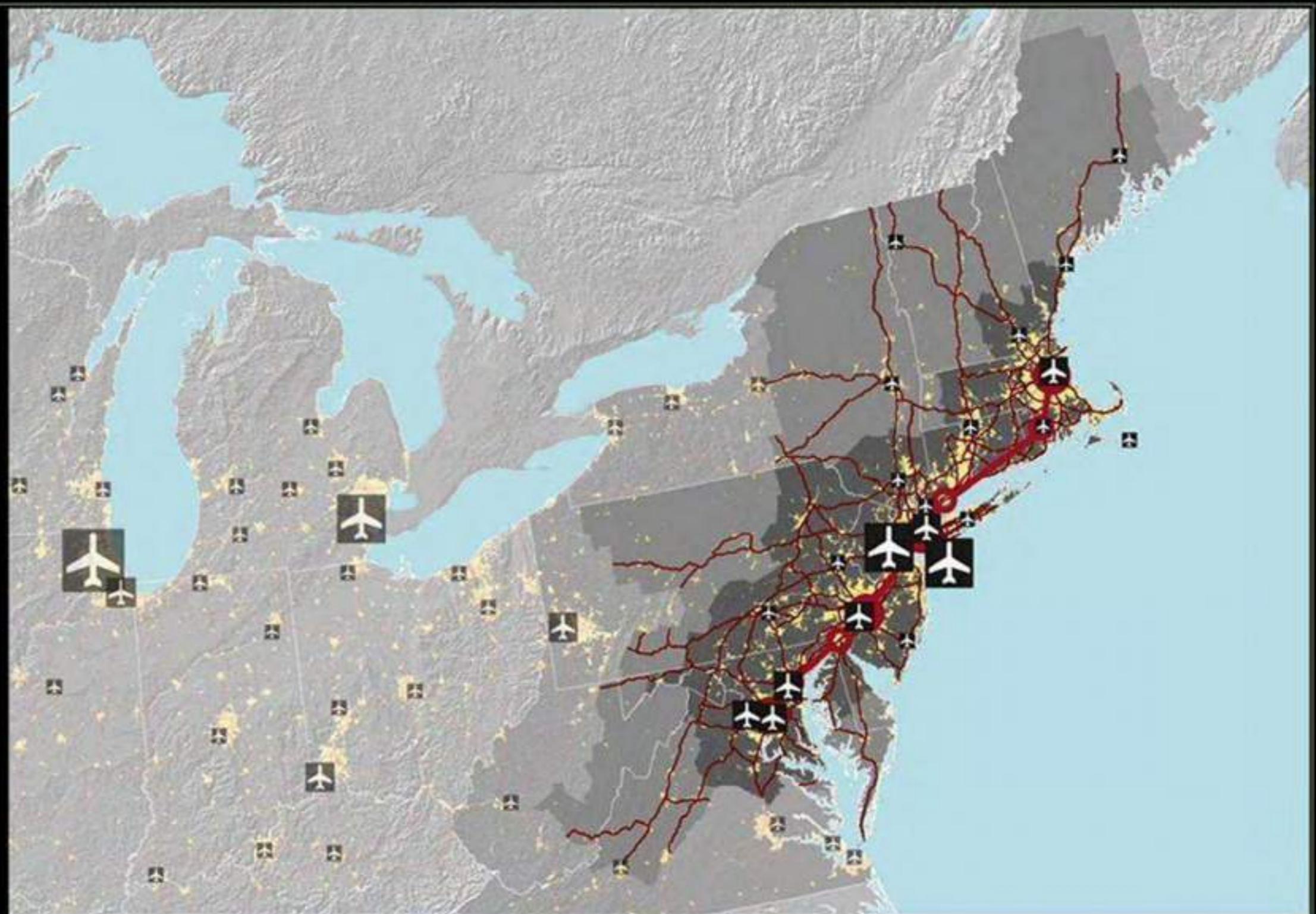
## SUPERCITIES

NORTHEAST ATLANTIC MEGAREGION



## SUPERCITIES

NORTHEAST ATLANTIC MEGAREGION



## SUPERCITIES

NORTHEAST ATLANTIC MEGAREGION





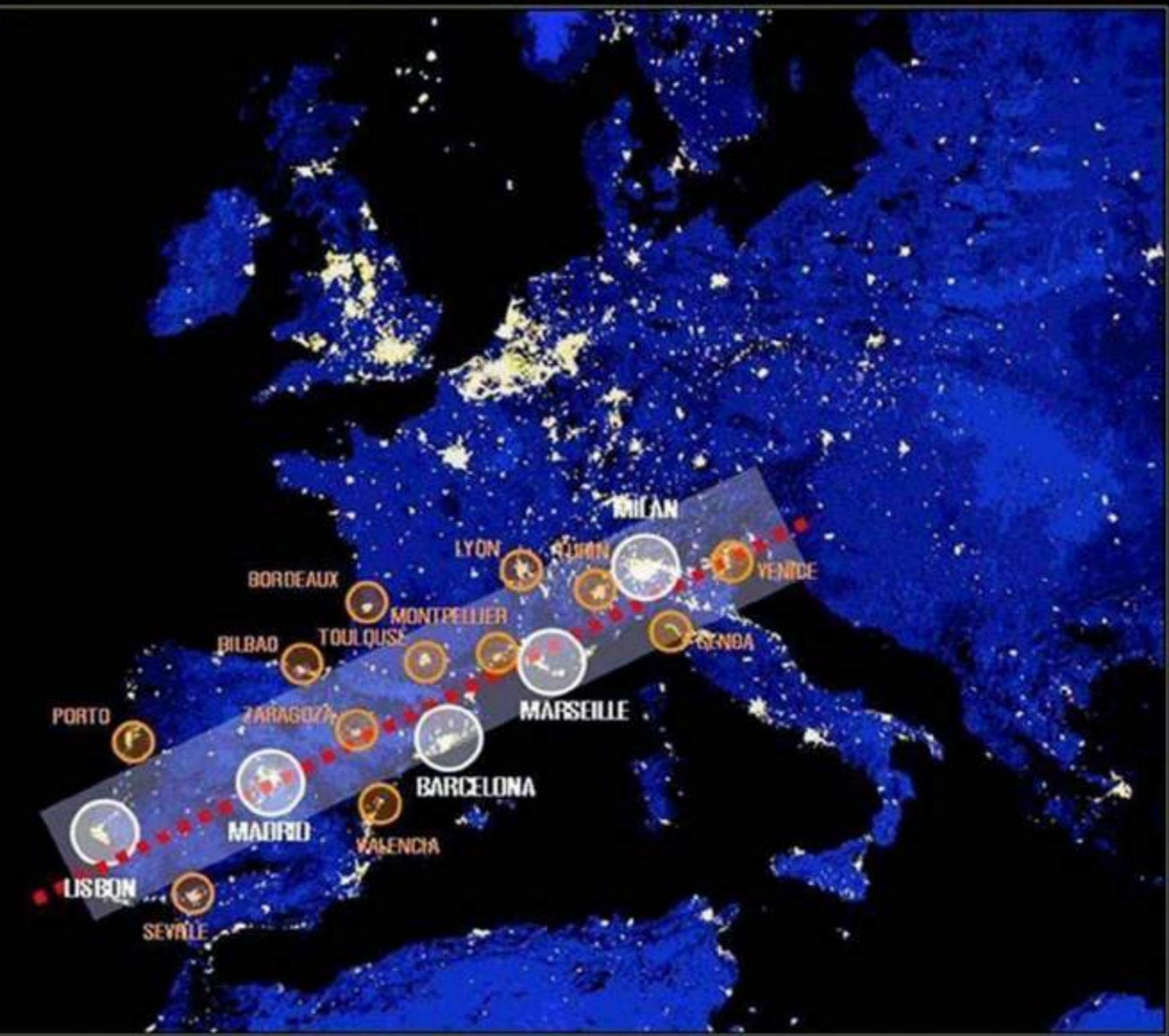
**SUPERCITIES**  
10 Megaregions



# Diagonal

BUILDING  
THE  
EUROPEAN  
DIAGONAL

## EUROPEAN DIAGONAL NETWORK



## EUROPEAN DIAGONAL

Isochrones Analysis  
4- hours total travel time  
(High speed train)

LISBOA:

16 million people within reach

Map prepared by Fabio Casiroli,  
*Faculty of Architecture Milano Polytechnic*



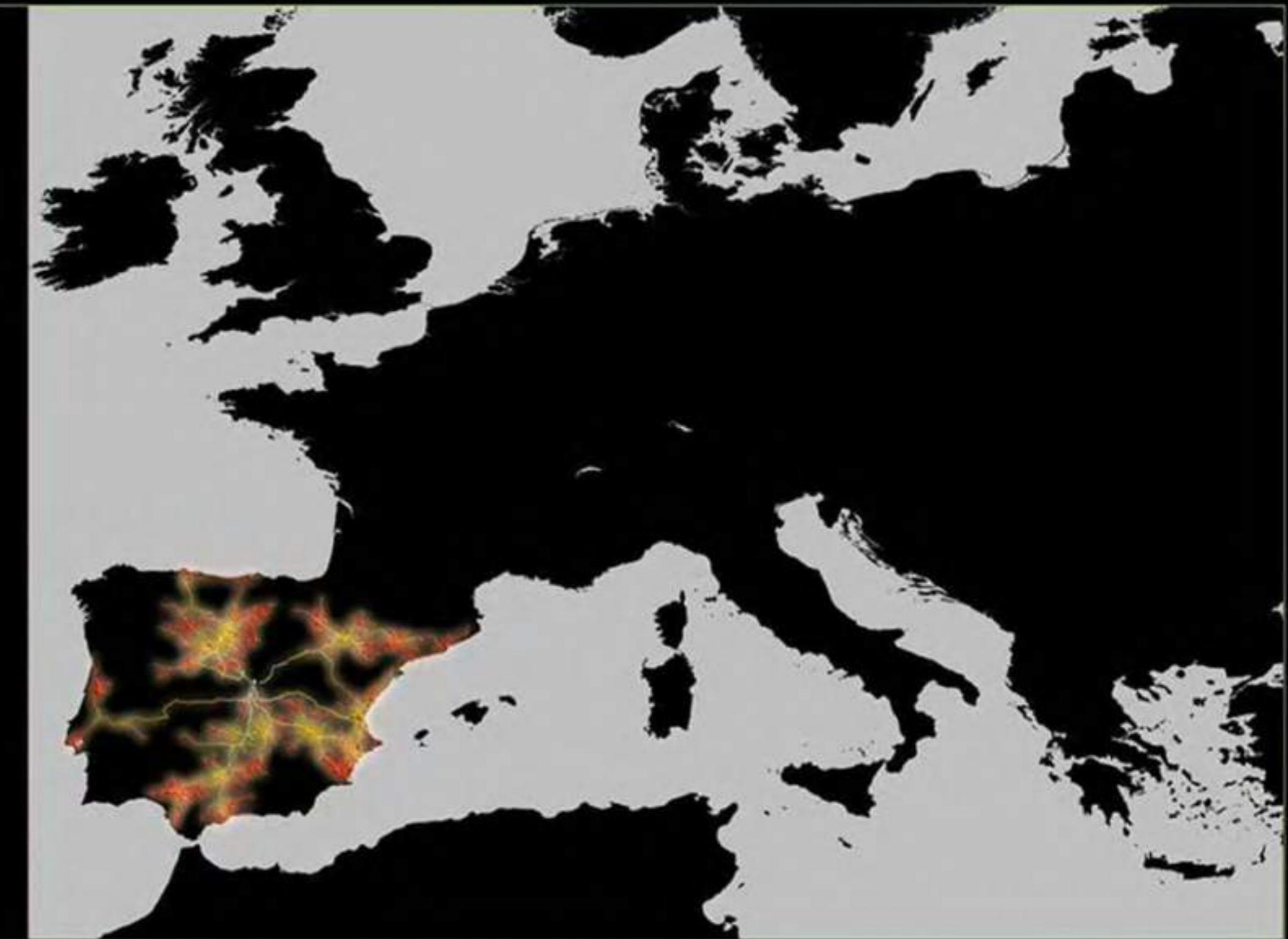
## EUROPEAN DIAGONAL

Isochrones Analysis  
4- hours total travel time  
(High speed train)

MADRID:

32 million people within reach

Map prepared by Fabio Casiroli,  
*Faculty of Architecture Milano Polytechnic*



## EUROPEAN DIAGONAL

Isochrones Analysis  
4- hours total travel time  
(High speed train)

BARCELONA:

29 million people within reach

Map prepared by Fabio Casiroli,  
*Faculty of Architecture Milano Polytechnic*



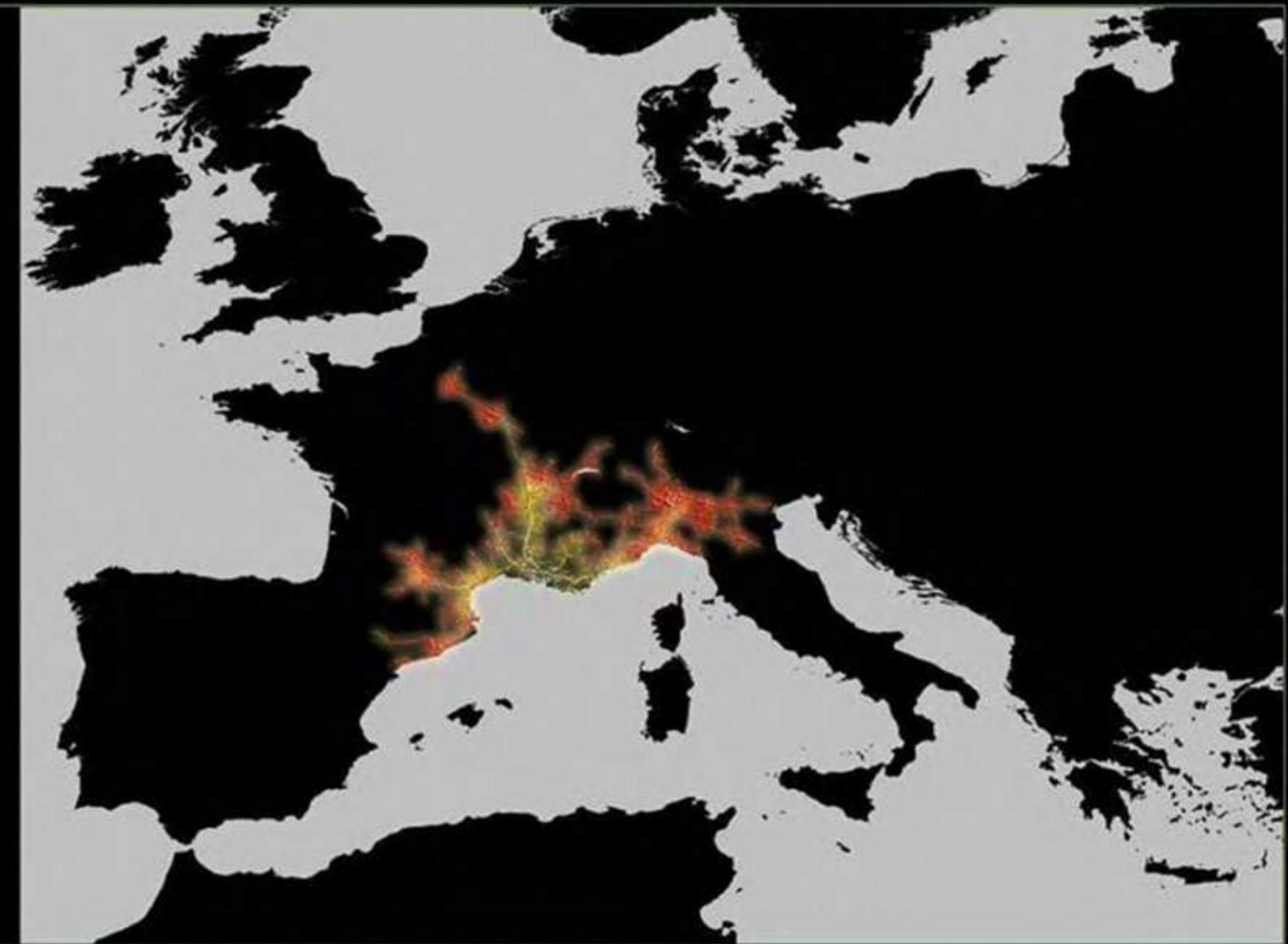
## EUROPEAN DIAGONAL

Isochrones Analysis  
4- hours total travel time  
(High speed train)

MARSELLA:

53 million people within reach

Map prepared by Fabio Casiroli,  
*Faculty of Architecture Milano Polytechnic*

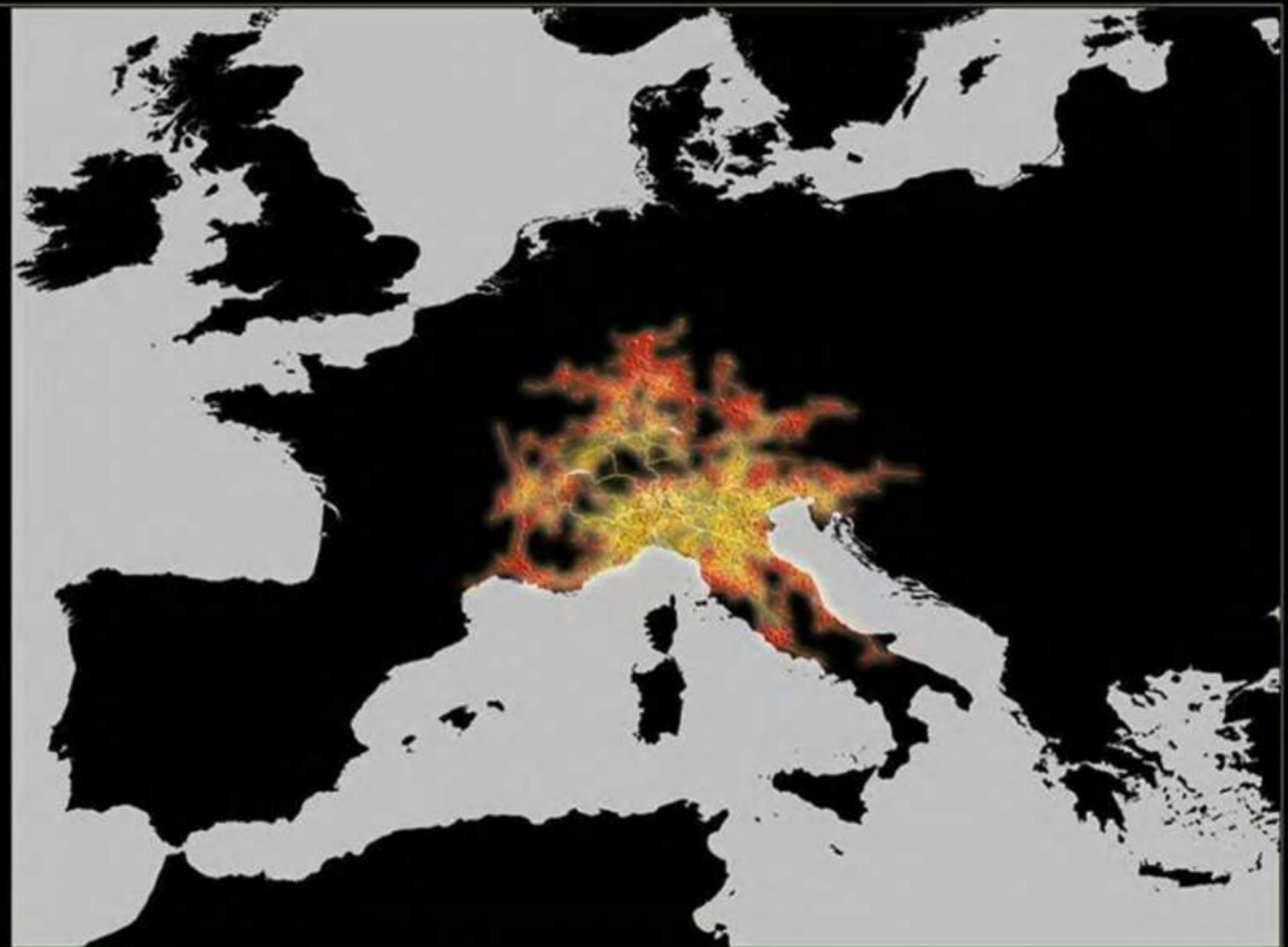


## EUROPEAN DIAGONAL

Isochrones Analysis  
4- hours total travel time  
(High speed train)

MILAN:  
80 million people within reach

Map prepared by Fabio Casiroli,  
*Faculty of Architecture Milano Polytechnic*



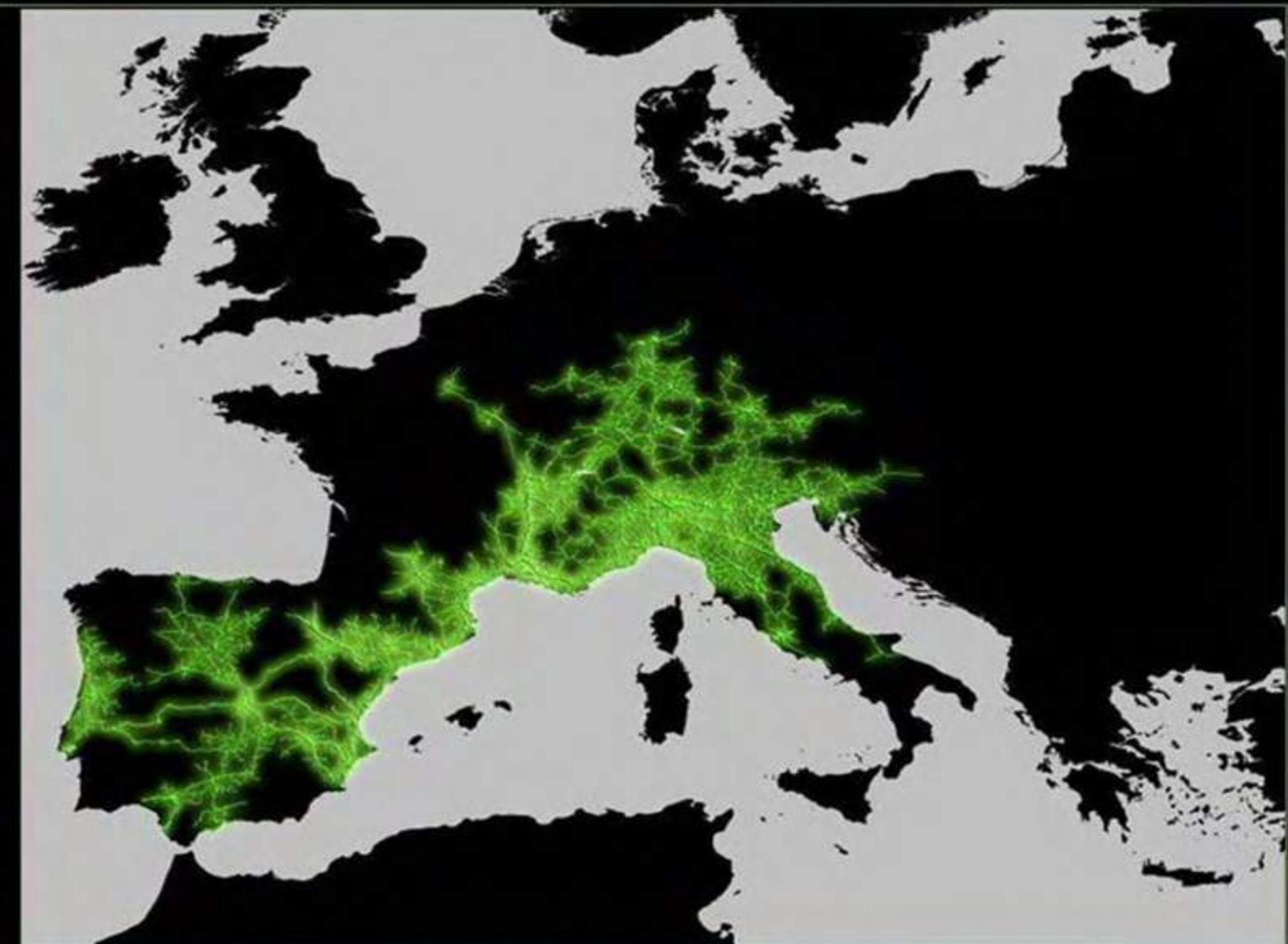
## EUROPEAN DIAGONAL

Isochrones Analysis  
4- hours total travel time  
(High speed train)

### DIAGONAL EUROPEA:

135 million people within reach

Map prepared by Fabio Casiroli,  
*Faculty of Architecture Milano Polytechnic*



## EUROPEAN DIAGONAL

Super City Hubs and Satellites



## EUROPEAN DIAGONAL DIAMONDS

Creating Links between the  
Urban Diamonds

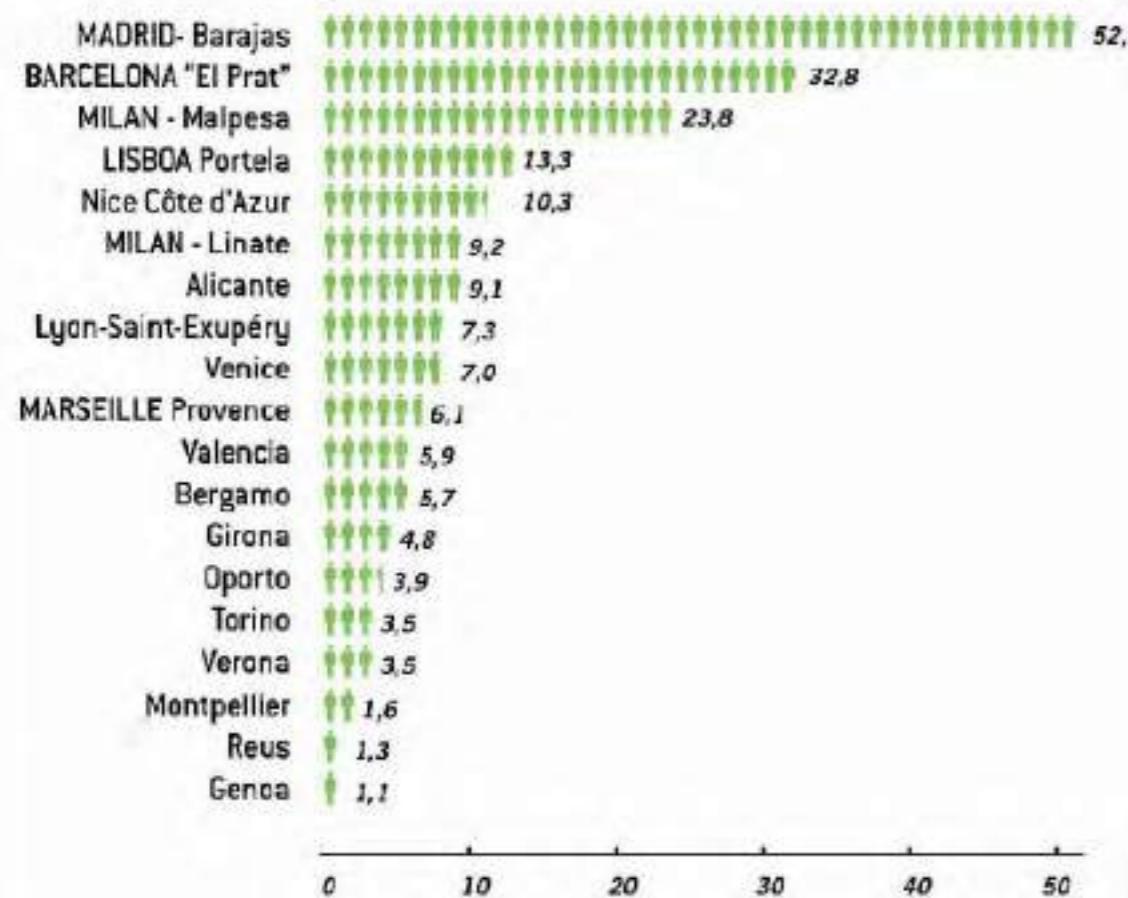


## EUROPEAN DIAGONAL

## BUSIEST AIRPORT IN THE DIAGONAL



(2007) Million passengers



## EUROPEAN DIAGONAL

## BUSIEST AIRPORT IN THE DIAGONAL



## EUROPEAN DIAGONAL

Super City Hubs and Satellites





## LISBON

"El proyecto de la Diagonal Europea abre un nuevo horizonte para Lisboa. Siempre hemos pensado en el papel de Lisboa como charnela de conexión entre la Península Ibérica y América Latina, especialmente 'la conexión' con Brasil y África. Es más, la capital portuguesa es la Puerta Atlántica de la Diagonal Europea."

ANTONIO LUIS SANTOS DA COSTA | *Alcalde de Lisboa*



# MADRID

“Los nuevos ejes de conexión con Lisboa y Barcelona abren para Madrid opciones de cooperación y complementariedad económica, que eran impensables hace tan solo una década. Madrid es un referente en las estrategias de conexión entre Europa y América Latina, lo cual supone un activo fundamental para el conjunto de ciudades de la Diagonal.”

**ALBERTO RUIZ GALLARDÓN | *Alcalde de Madrid***



# BARCELONA

"Barcelona es una ciudad mediterránea e innovadora, que ha realizado avances formidables en la transformación de la ciudad en los últimos 20 años. Barcelona va a estar magníficamente conectada con las ciudades de la Diagonal y va a fortalecer sus conexiones globales, articulando un espacio que pretende liderar desde el punto de vista cultural y económico del sur de Europa."

**JORDI HEREU BOHER | *Alcalde de Barcelona***



## MILAN

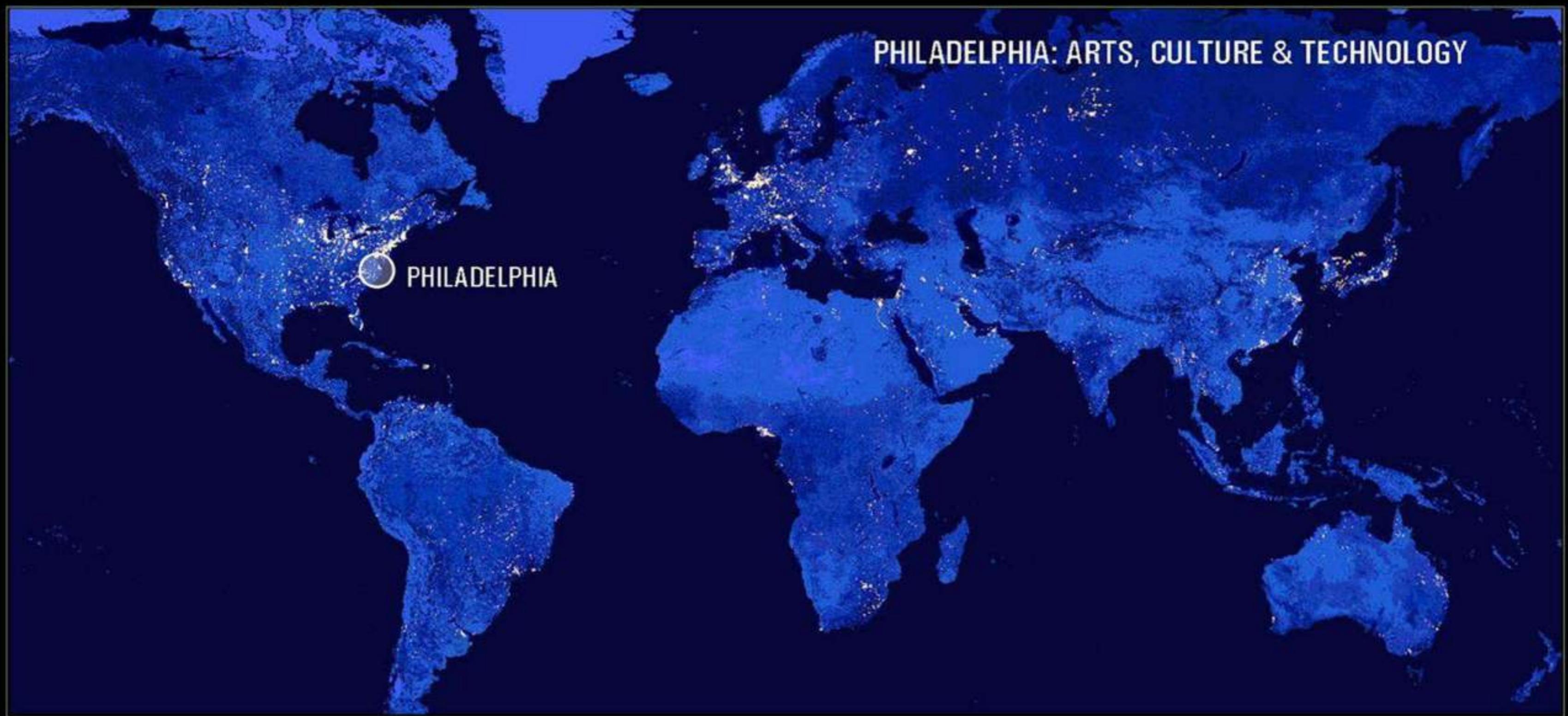
"Milán, localizada en la intersección entre la Diagonal Europea y la cresta morfológica continental, juega un papel importante en el sistema de corredores trans-europeos. Compartimos la visión de la Diagonal Europea en la que Milán puede hacer una gran contribución."

**LETIZIA MORATTI | *Alcaldesa de Milán***

## EUROPEAN DIAGONAL

Super City Hubs and Satellites



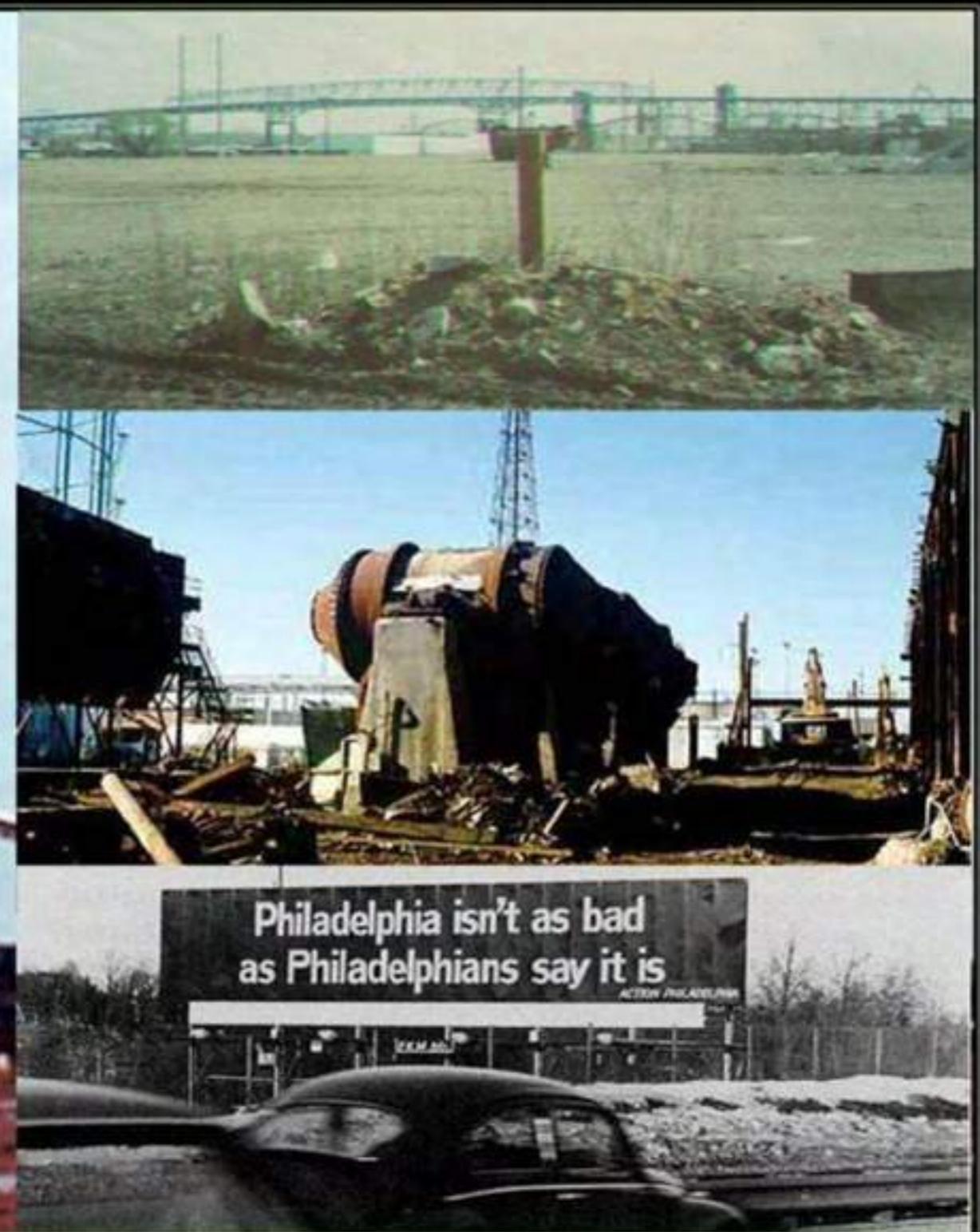
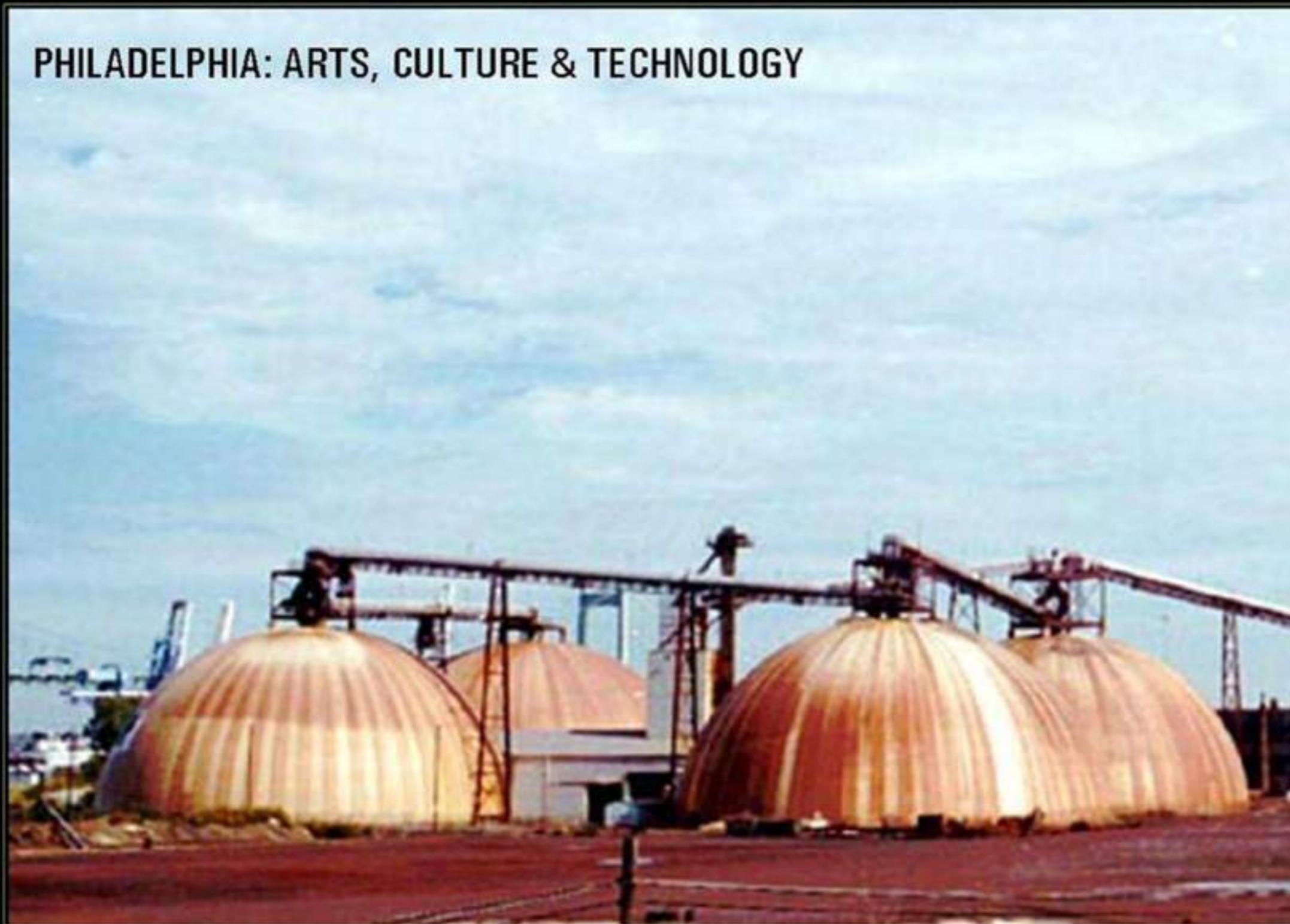


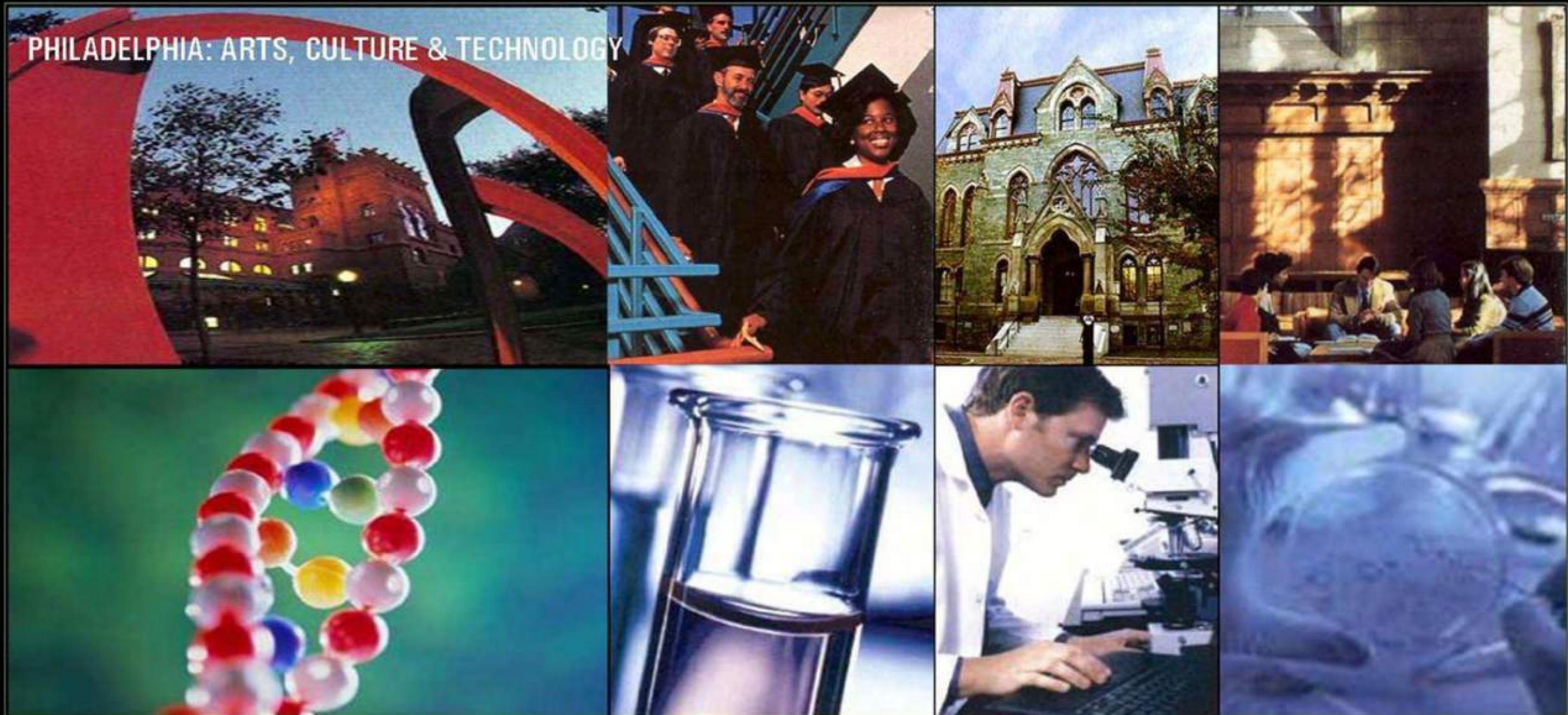
## SUPERCITIES

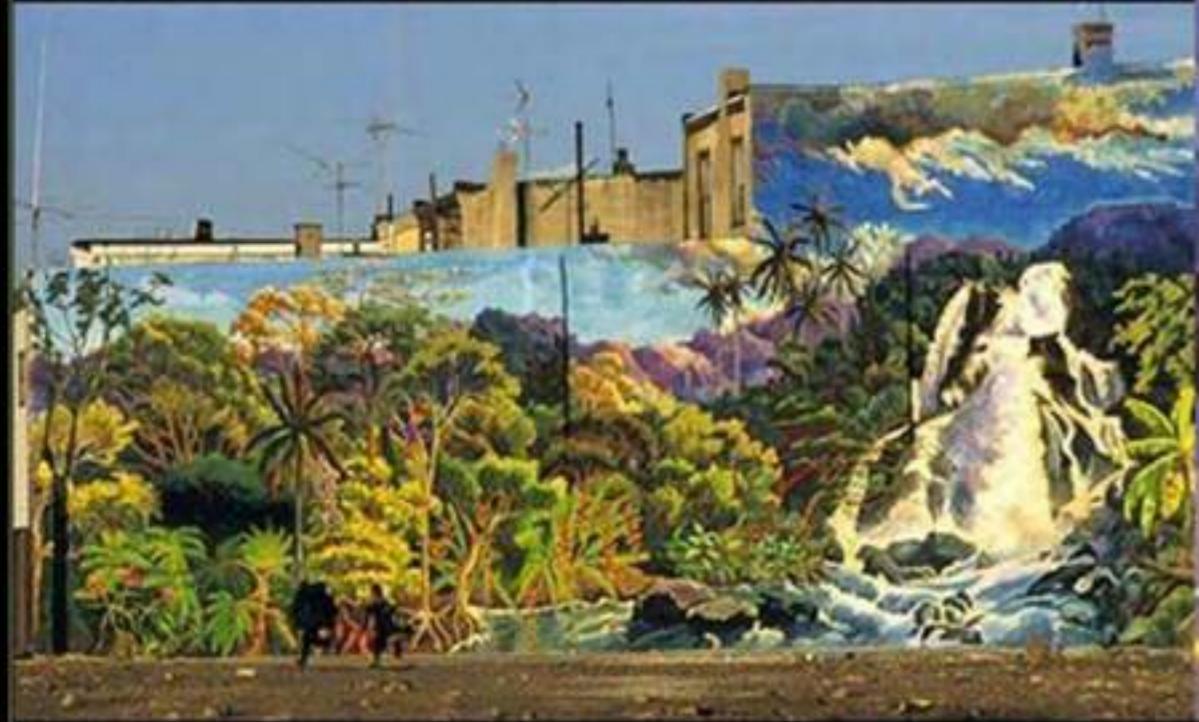
NORTHEAST ATLANTIC MEGAREGION



PHILADELPHIA: ARTS, CULTURE & TECHNOLOGY









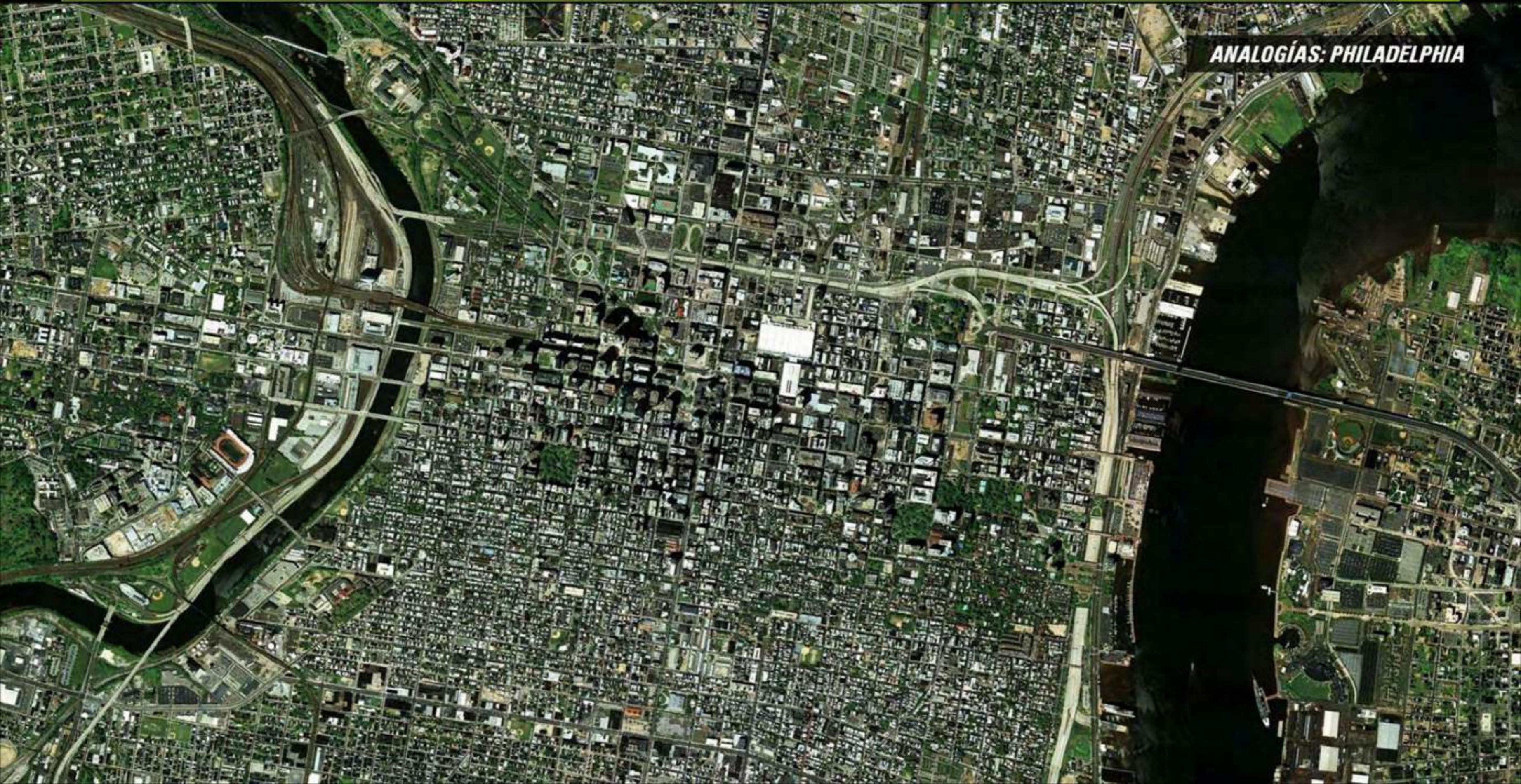


PHILADELPHIA: ARTS, CULTURE & TECHNOLOGY



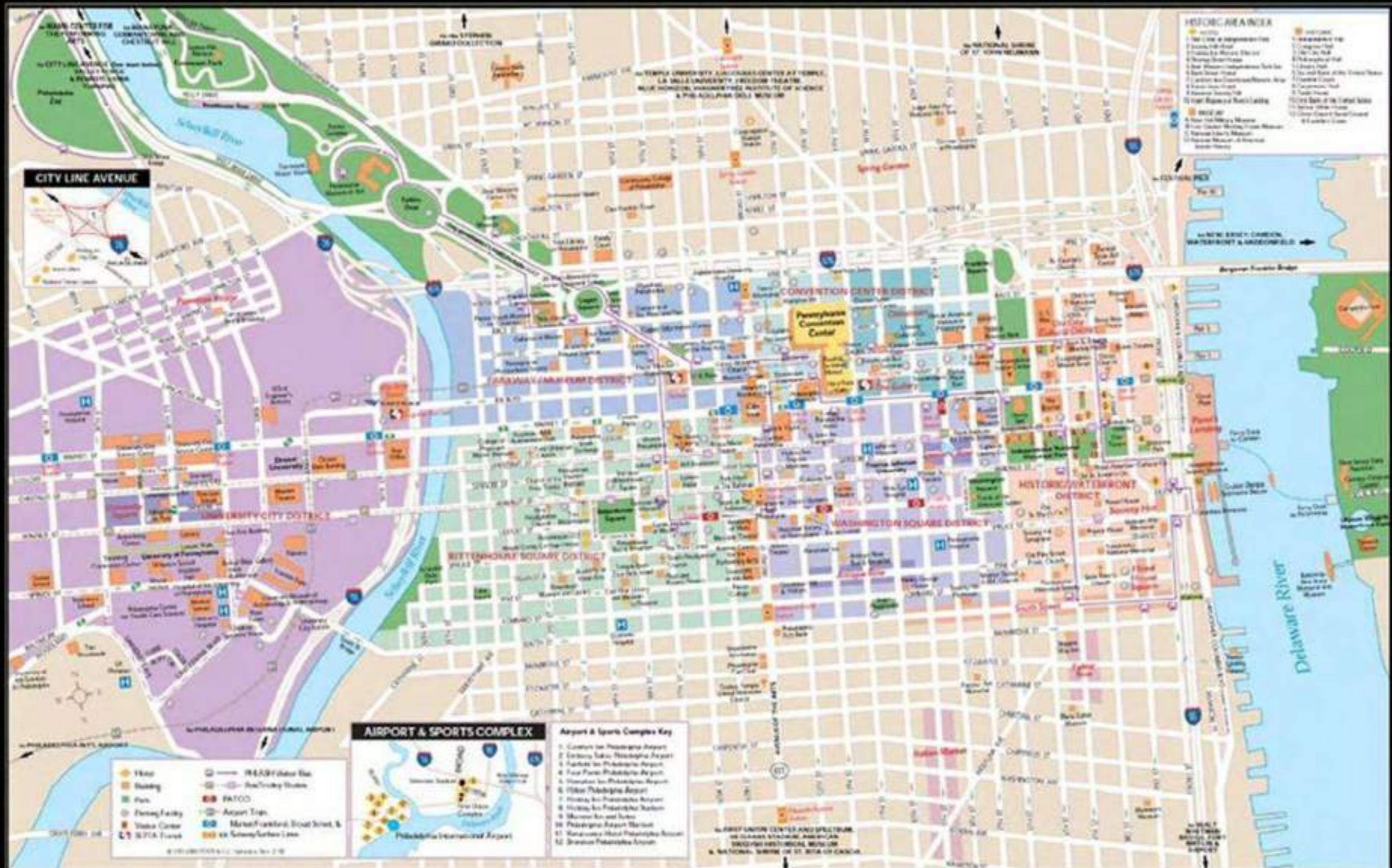
LANDSCAPE INTELLIGENCE  
TERRITORIOS INTELIGENTES

ANALOGÍAS: PHILADELPHIA

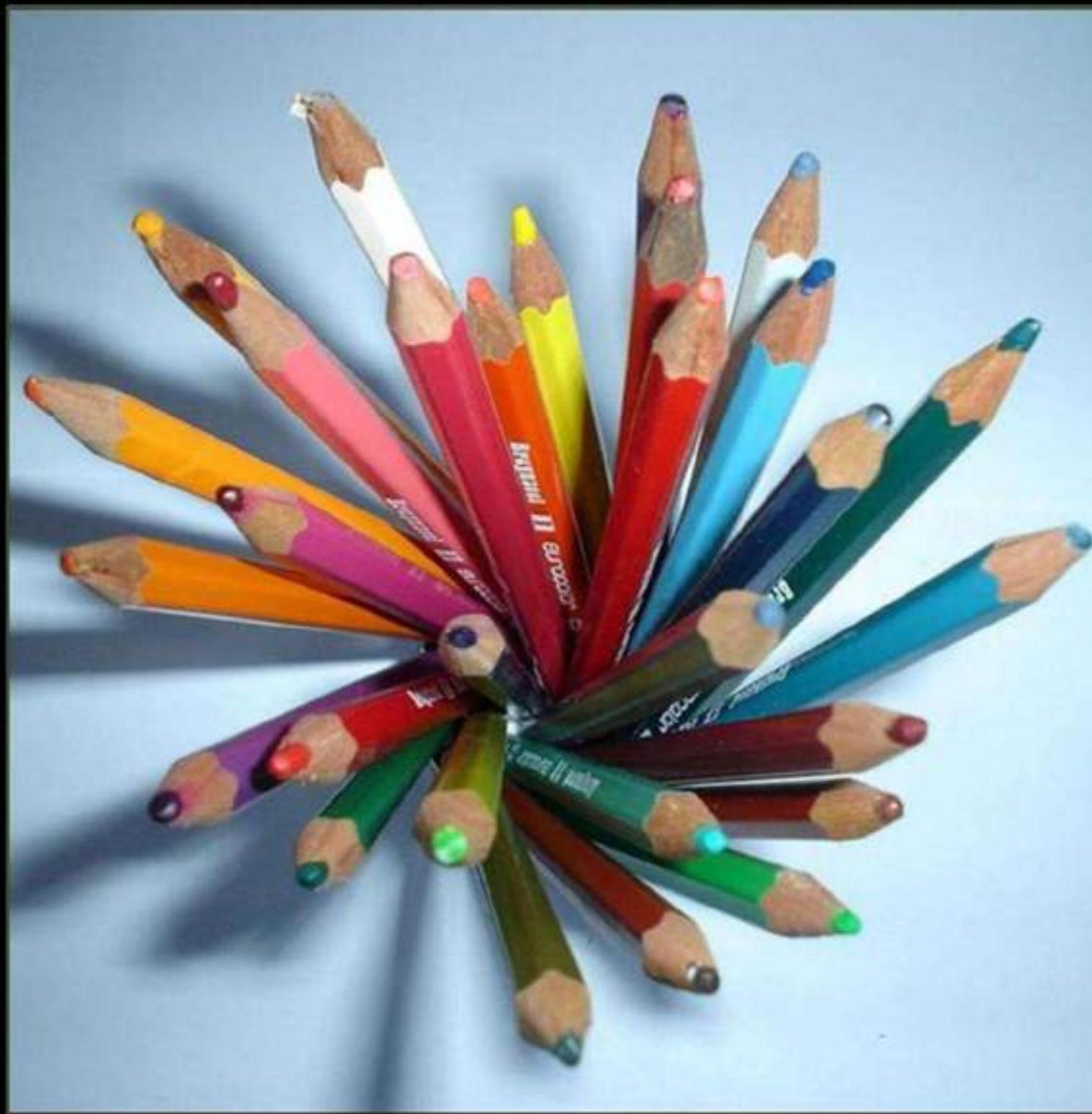


ANALOGÍAS: PHILADELPHIA





## PHILADELPHIA: ARTS, CULTURE & TECHNOLOGY



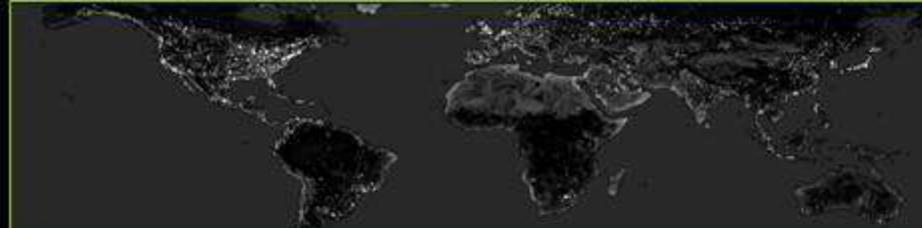
ARTS & TECHNOLOGY



## EUROPEAN DIAGONAL

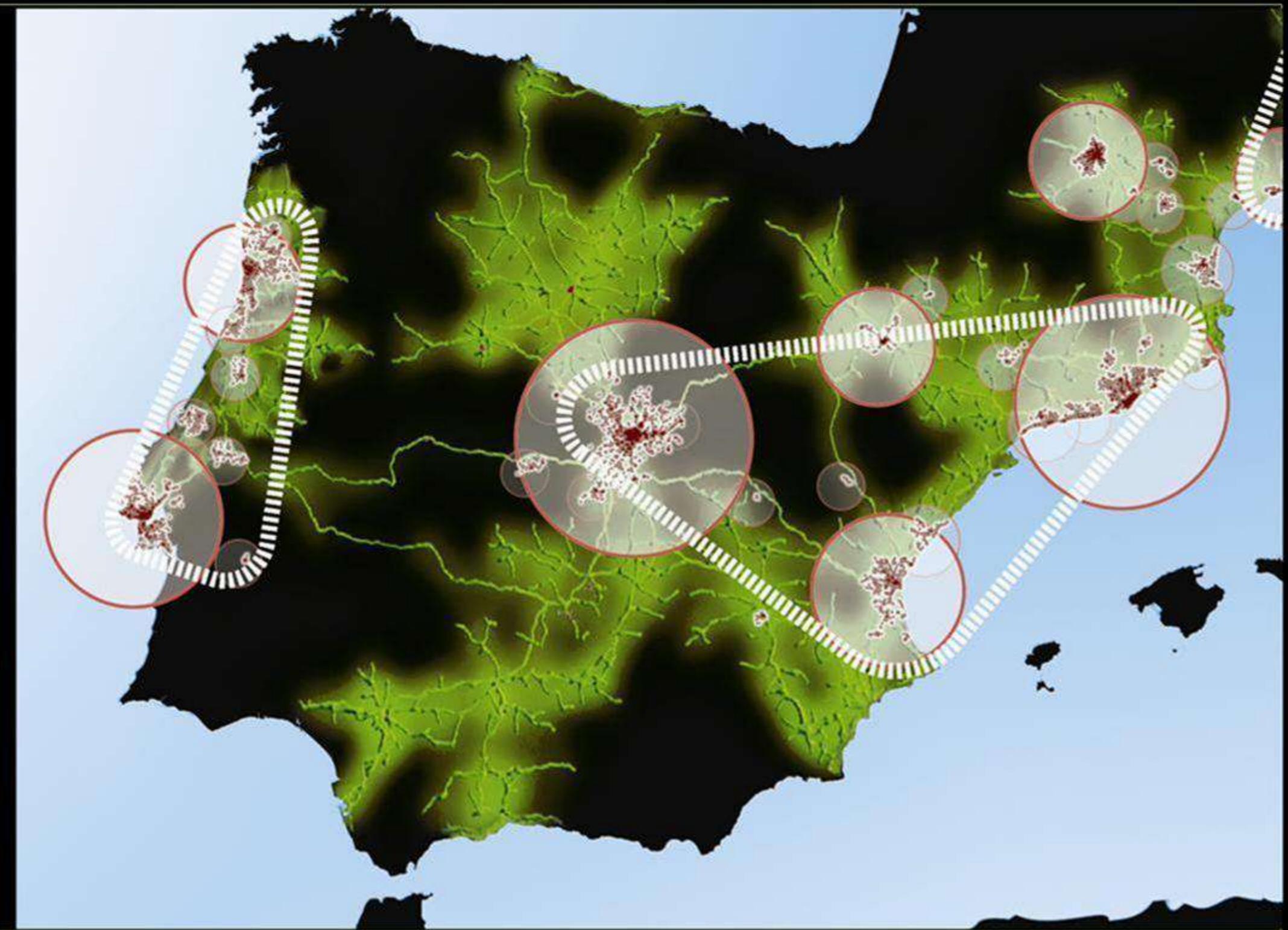
Super City Hubs and Satellites





SEMINARIO INTERNACIONAL  
BRASILIA METROPOLITANA 2050

TERRITORIOS INTELIGENTES  
Visões Metropolitanas e Sustentabilidade





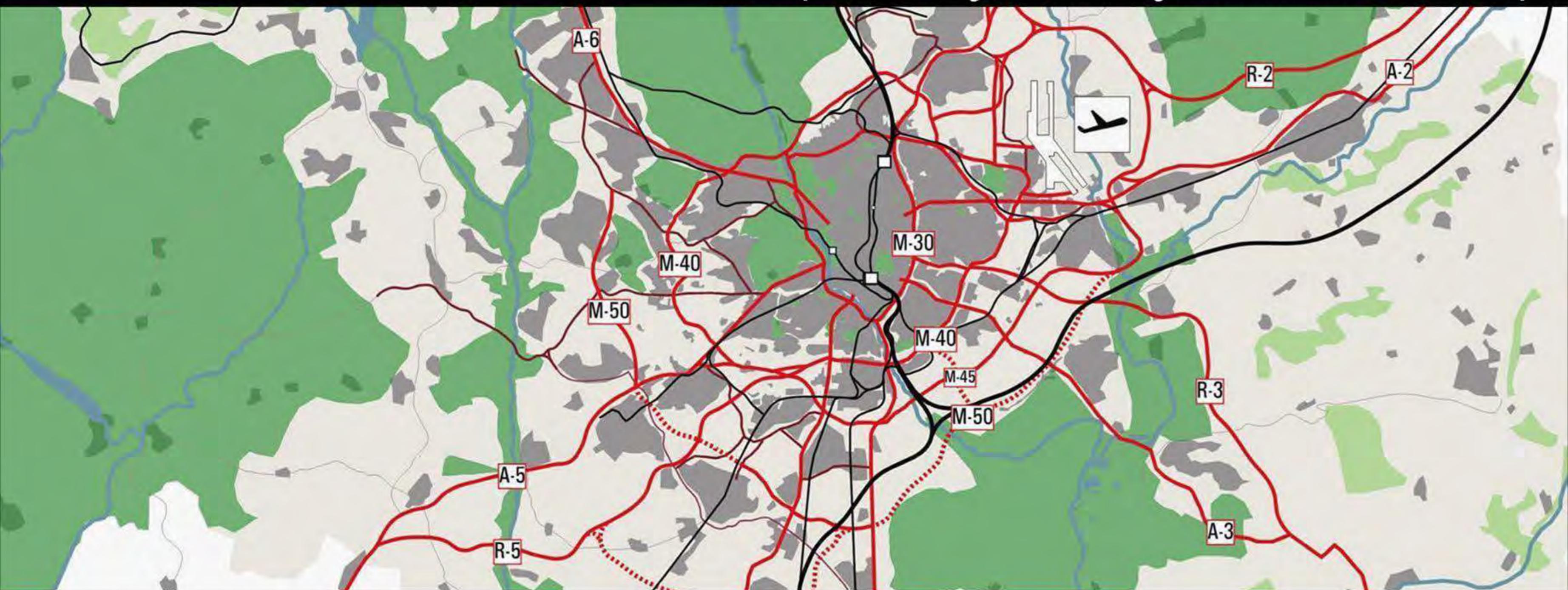
SEMINARIO INTERNACIONAL  
BRASILIA METROPOLITANA 2050

TERRITORIOS INTELIGENTES

Visões Metropolitanas e Sustentabilidade

**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID

Madrid puede ser la gran ciudad región creativa del sur de Europa



**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID

CONCENTRACIÓN DE LAS ACTIVIDADES MÁS  
CREATIVAS DE MADRID



**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID

EL LUGAR MÁS ACCESIBLE POR  
TRANSPORTE COLECTIVO  
DEL ÁREA METROPOLITANA



**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID  
LA TRAMA URBANA MÁS COHERENTE





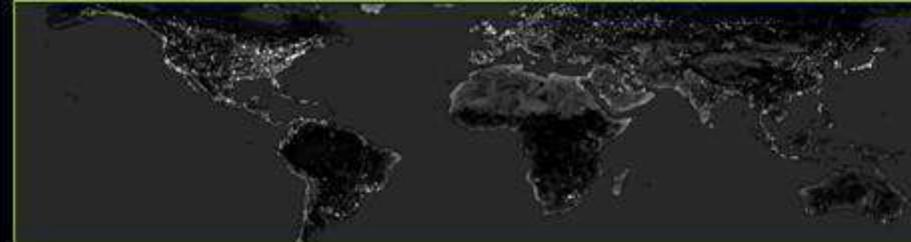
SEMINARIO INTERNACIONAL  
BRASILIA METROPOLITANA 2050

TERRITORIOS INTELIGENTES

Visões Metropolitanas e Sustentabilidade

**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID  
LA TRAMA URBANA MÁS COHERENTE





SEMINARIO INTERNACIONAL  
BRASILIA METROPOLITANA 2050

TERRITORIOS INTELIGENTES

Visões Metropolitanas e Sustentabilidade

**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID  
EL ESPACIO CENTRAL DE MADRID



Tiene forma de "Almendra"



SEMINARIO INTERNACIONAL  
BRASILIA METROPOLITANA 2050

TERRITORIOS INTELIGENTES  
Visões Metropolitanas e Sustentabilidade

**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID  
EL ESPACIO CENTRAL DE MADRID

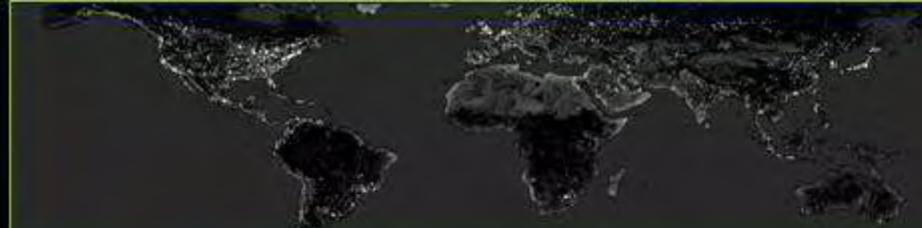


Tiene forma de "Almendra" pero es un "DIAMANTE", es el corazón de Madrid

**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID  
EL ESPACIO CENTRAL DE MADRID

ES EL LUGAR MÁS EMBLEMÁTICO Y SIMBÓLICO DE MADRID Y ACOGE  
NUESTRO MÁS IMPORTANTE PATRIMONIO HISTÓRICO Y ARTÍSTICO.



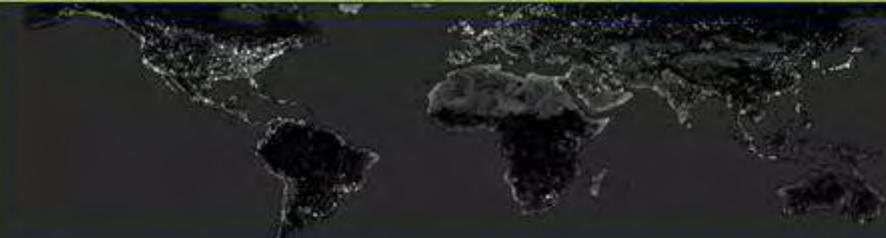


SEMINARIO INTERNACIONAL  
BRASILIA METROPOLITANA 2050

TERRITORIOS INTELIGENTES  
Visões Metropolitanas e Sustentabilidade

**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID  
La M30 es hoy una AUTOVÍA URBANA





## SEMINARIO INTERNACIONAL BRASILIA METROPOLITANA 2050

## TERRITORIOS INTELIGENTES

Visões Metropolitanas e Sustentabilidade



**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID

## LOS ECOBULEVARES

*Los espacios críticos de un  
Proyecto de Ciudad para Madrid*

- Corredores Ecológicos
- Protagonismo del Transporte Colectivo
- Mezcla de Usos
- Intensidad Urbana
- Espacios de Ciudadanía y de Integración



**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID

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**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID

## LOS ECOBULEVARES

*Los espacios críticos de un  
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**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID

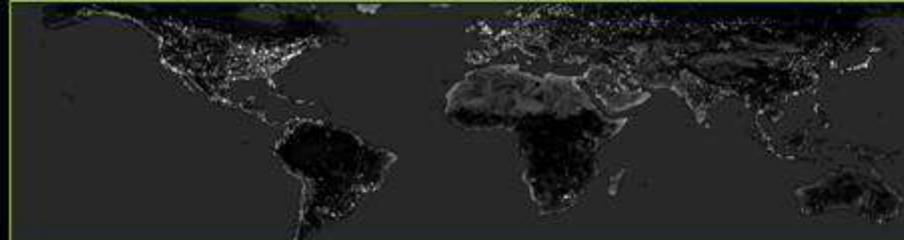
ANILLO DE TRANSPORTE  
COLECTIVO DE SUPERFICIE



**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID

ANILLO DE TRANSPORTE  
COLECTIVO DE SUPERFICIE





## SEMINARIO INTERNACIONAL BRASILIA METROPOLITANA 2050

TERRITORIOS INTELIGENTES

Visões Metropolitanas e Sustentabilidade

**BM30** FUNDACION METROPOLI  
PROYECTO CITIES MADRID

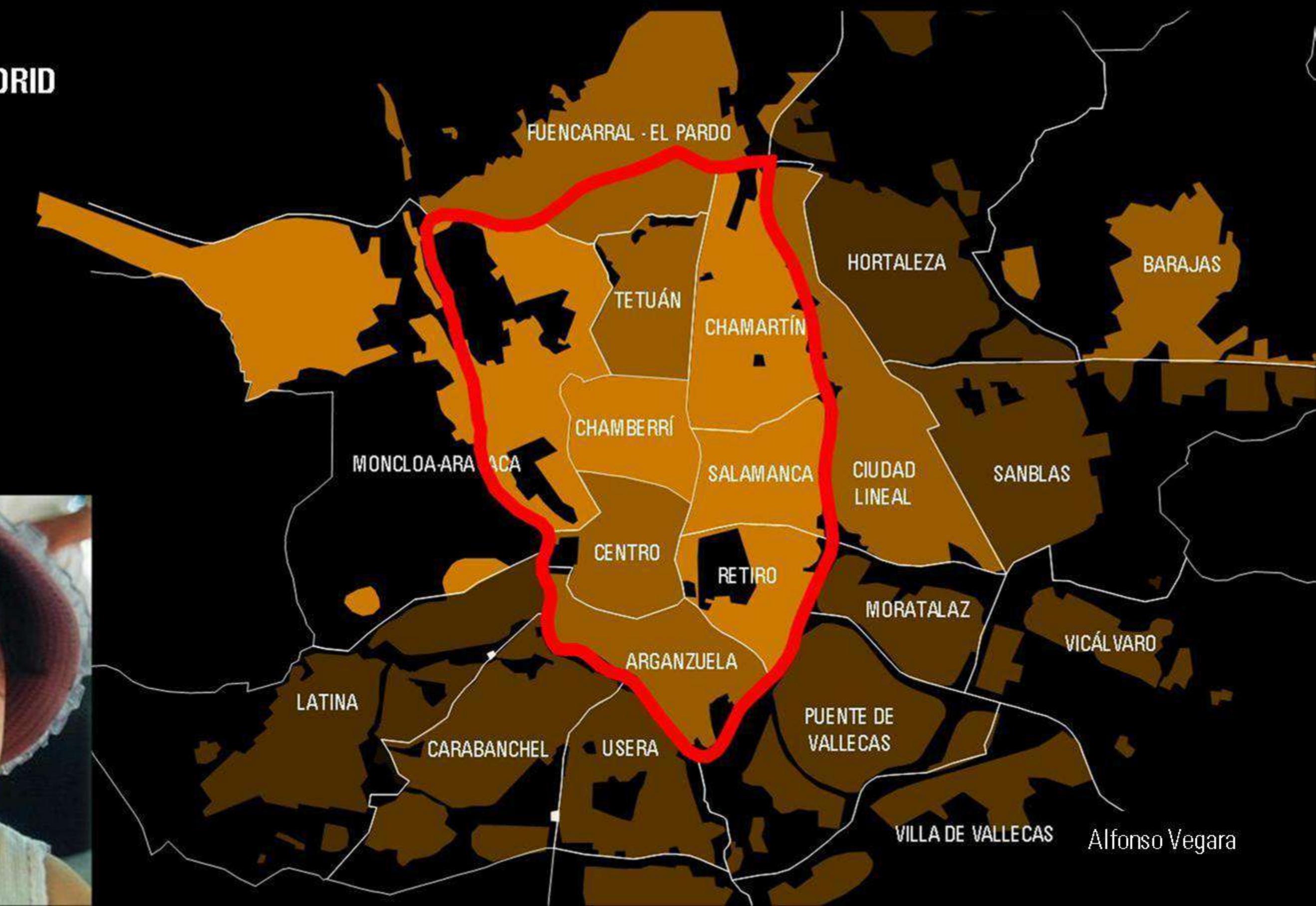
### BULEVAR DE LA CIUDADANÍA

- Integración social
- Solidaridad
- Convivencia



FUNDACION METROPOLI

[www.fundacion-metropoli.org](http://www.fundacion-metropoli.org)



Alfonso Vegara



## SEMINARIO INTERNACIONAL BRASILIA METROPOLITANA 2050

## TERRITORIOS INTELIGENTES

Visões Metropolitanas e Sustentabilidade

# BM30 FUNDACION METROPOLI PROYECTO CITIES MADRID

### ESCENARIO DE LA CREATIVIDAD

Será el motor de innovación y de la  
nueva economía de Madrid.



Alfonso Vegara



SEMINARIO INTERNACIONAL  
BRASILIA METROPOLITANA 2050

TERRITORIOS INTELIGENTES  
Visões Metropolitanas e Sustentabilidade

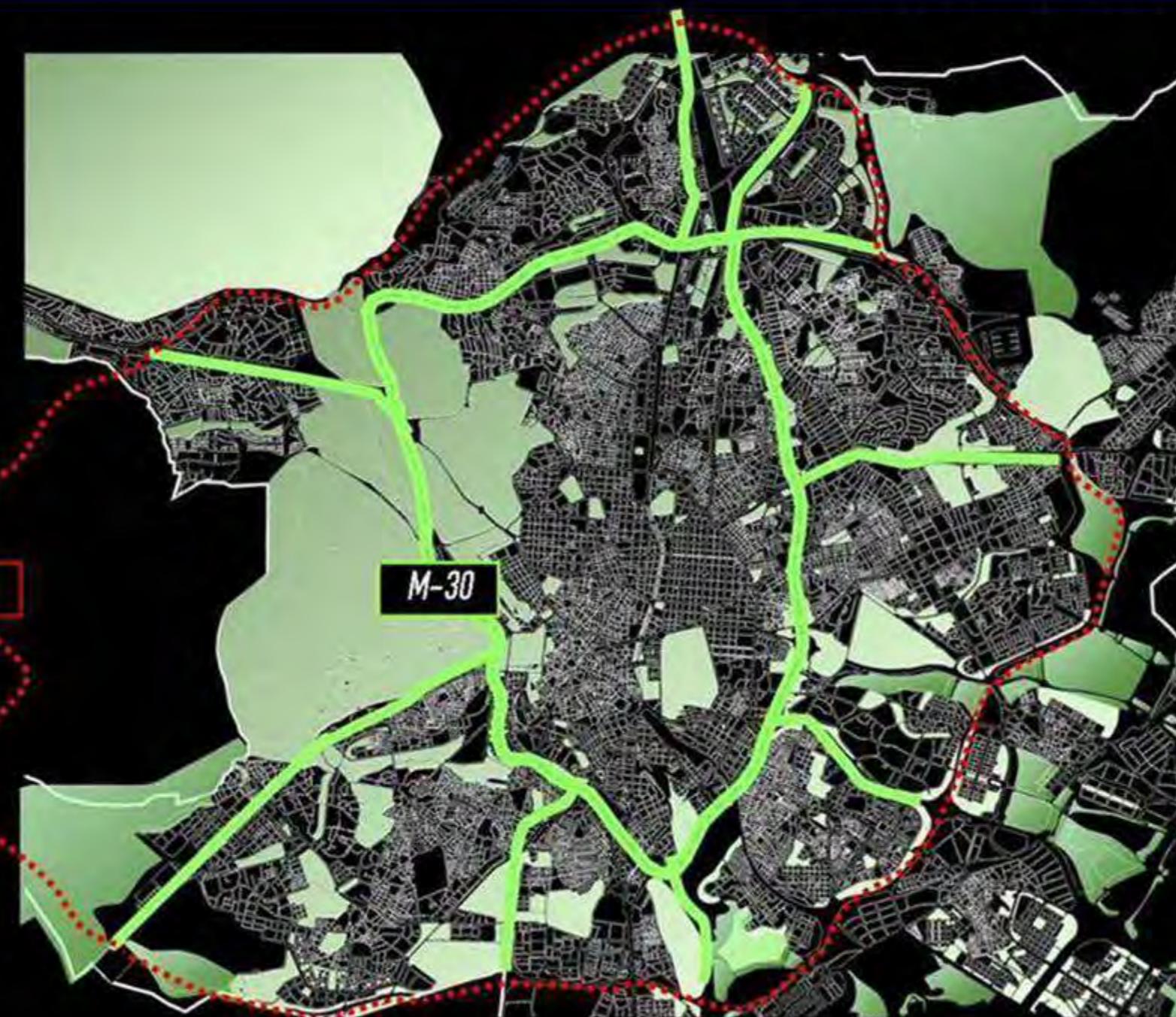
**CASABLANCA** vers un projet de ville

Grand Casablanca



EXPERIENCES INTERNATIONALES BASEES SUR LA TRANSFORMATION DES AUTOROUTES URBAINES

MADRID – Bulevar BM30





SEMINARIO INTERNACIONAL  
BRASILIA METROPOLITANA 2050

TERRITORIOS INTELIGENTES  
Visões Metropolitanas e Sustentabilidade

**CASABLANCA**

vers un projet de ville

Grand Casablanca



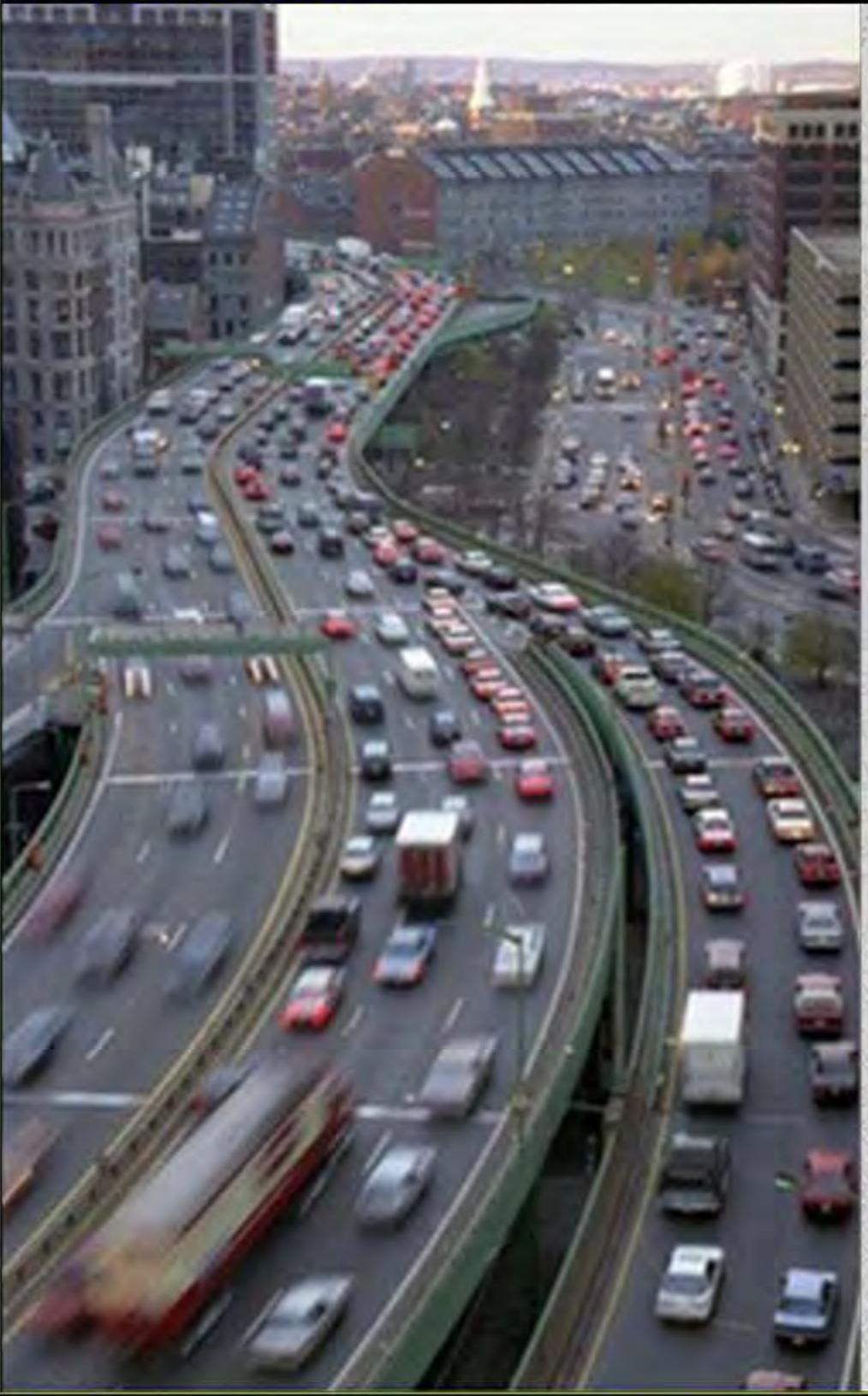
GRANDS BOULEVARDS

Paseo de la Castellana, Madrid

# CASABLANCA

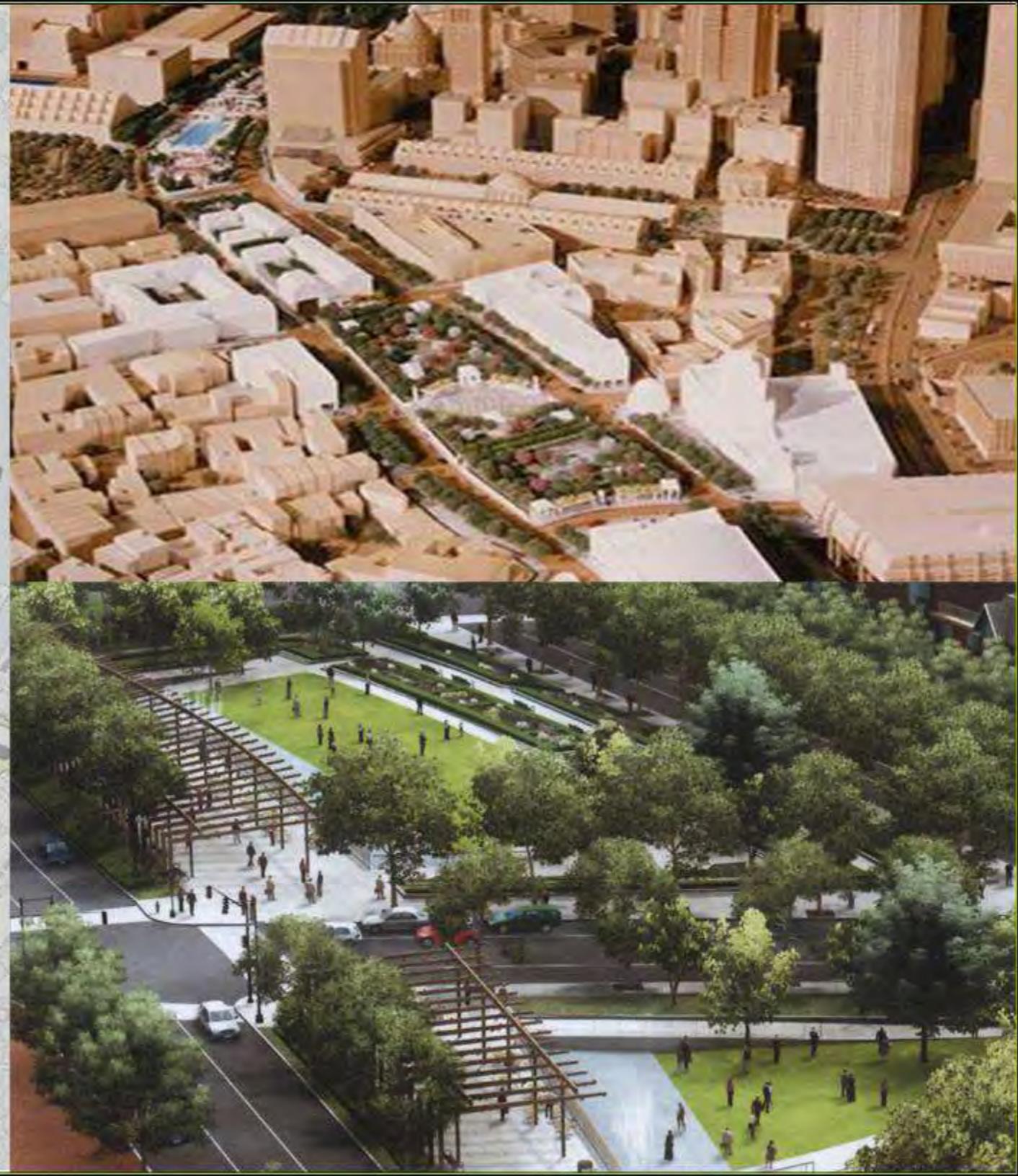
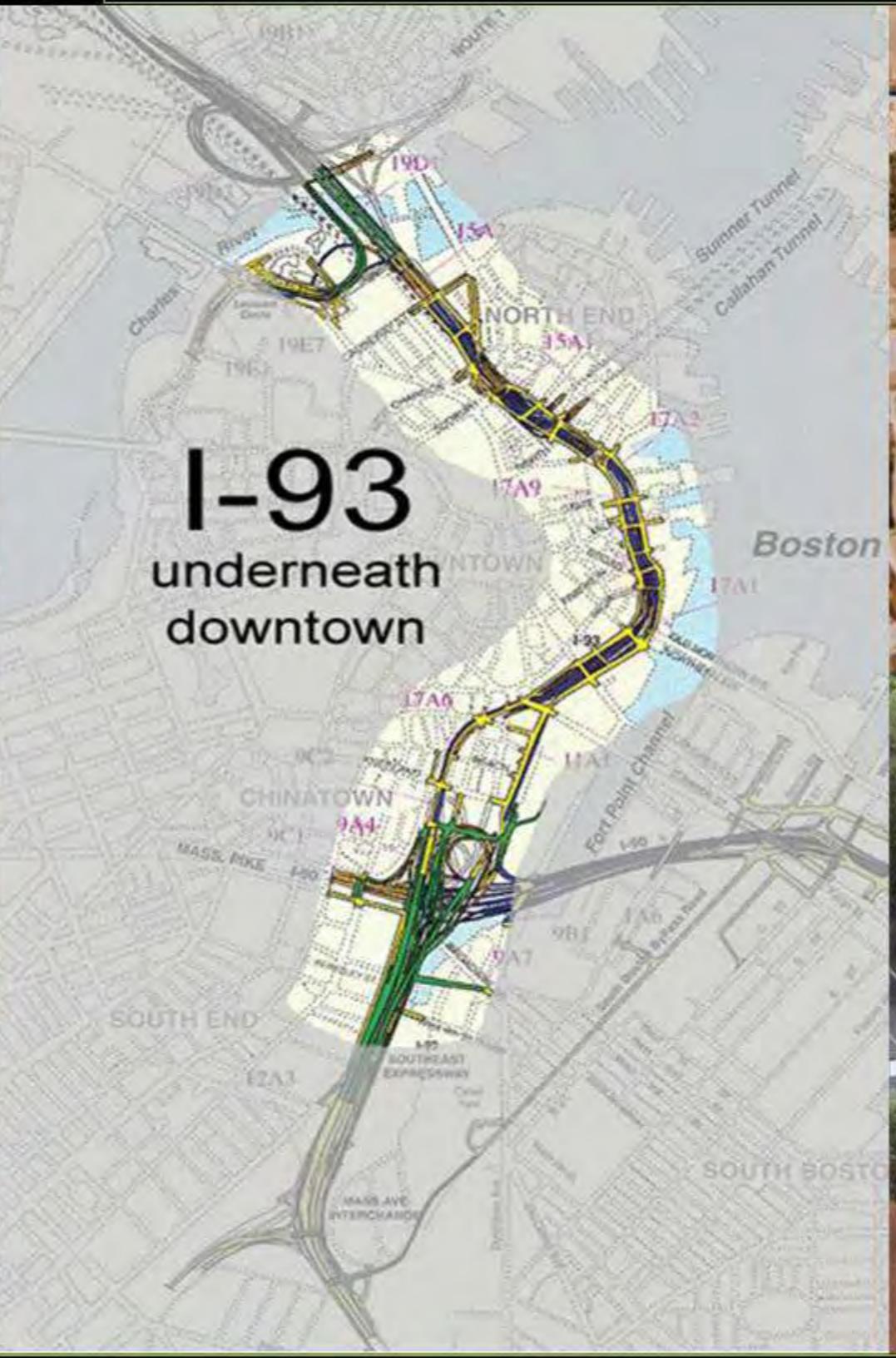
vers un projet de ville

Grand Casablanca



EXPERIENCES INTERNATIONALES BASEES SUR LA TRANSFORMATION DES AUTOROUTES URBAINES

BOSTON - Big Dig



ville de Casablanca

FUNDACION METROPOLI

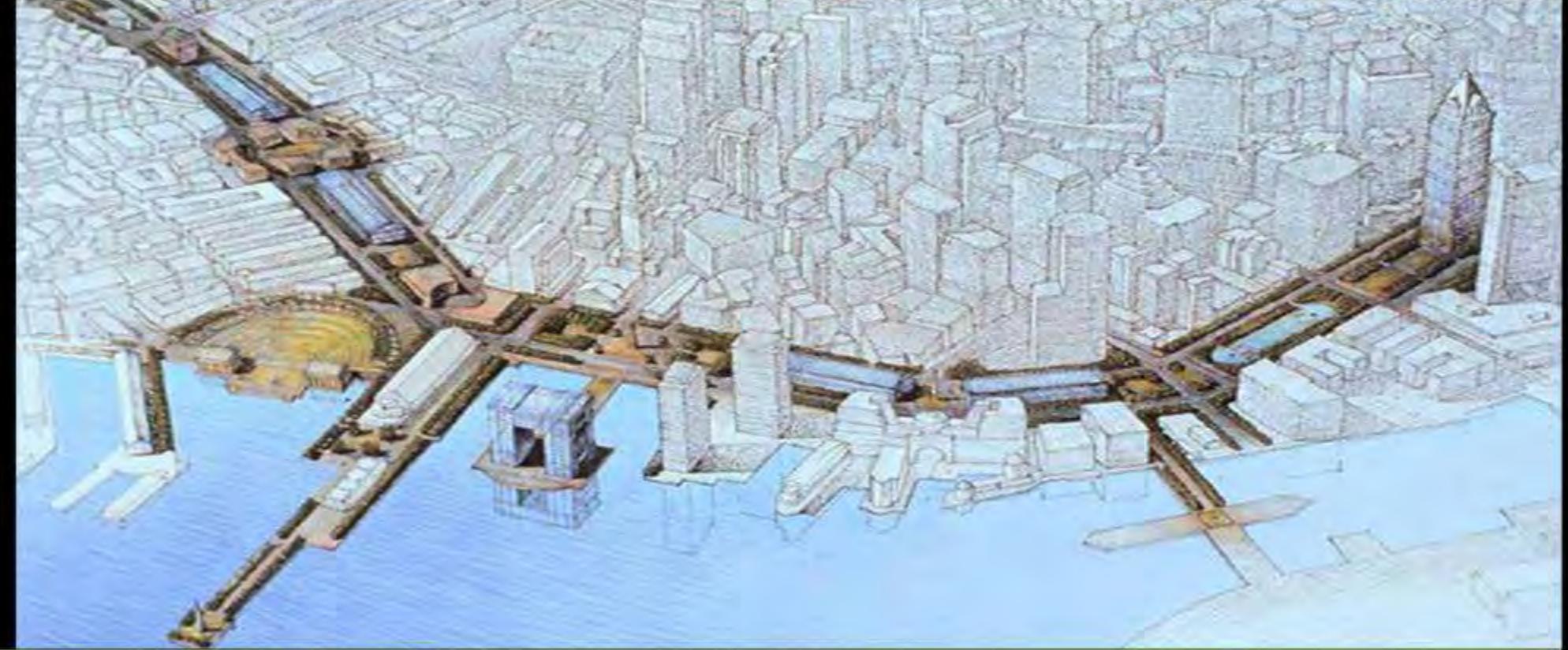
# CASABLANCA

vers un projet de ville

Grand Casablanca

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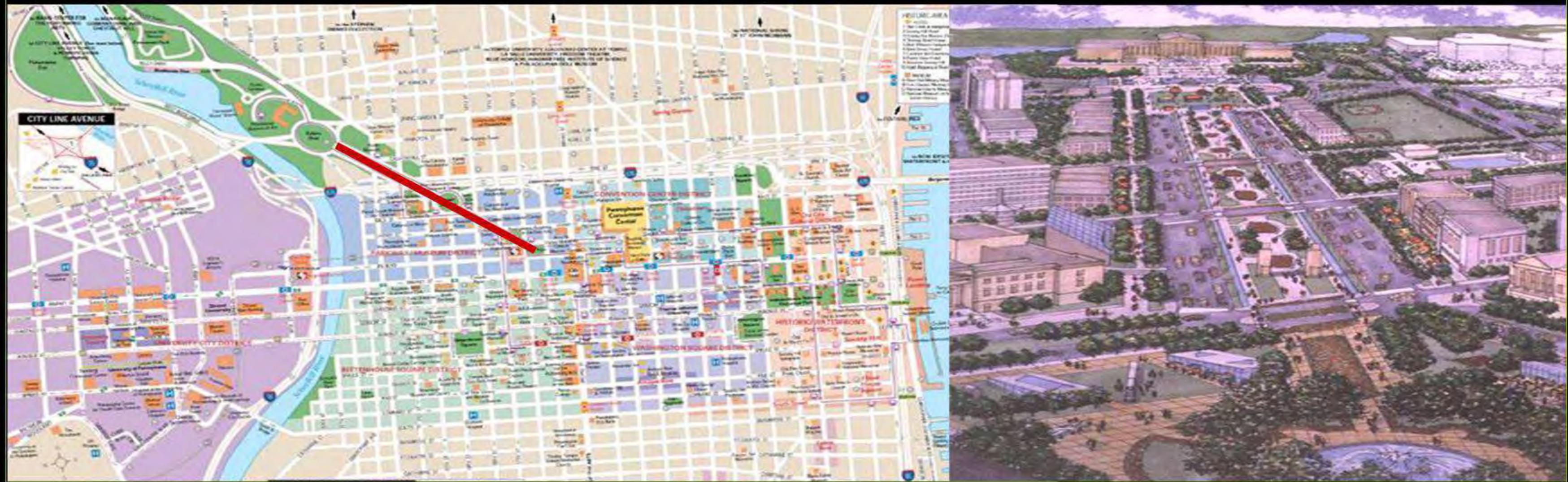
# CASABLANCA

vers un projet de ville

Grand Casablanca

EXPERIENCES INTERNATIONALES BASEES SUR LA TRANSFORMATION DES AUTOROUTES URBAINES

PHILADELPHIE – Benjamin Franklin Parkway



ville de Casablanca

FUNDACION METROPOLI

# CASABLANCA

vers un projet de ville

Grand Casablanca

EXPERIENCES INTERNATIONALES BASEES SUR LA TRANSFORMATION DES AUTOROUTES URBAINES

SAN FRANCISCO – Embarcadero Expressway



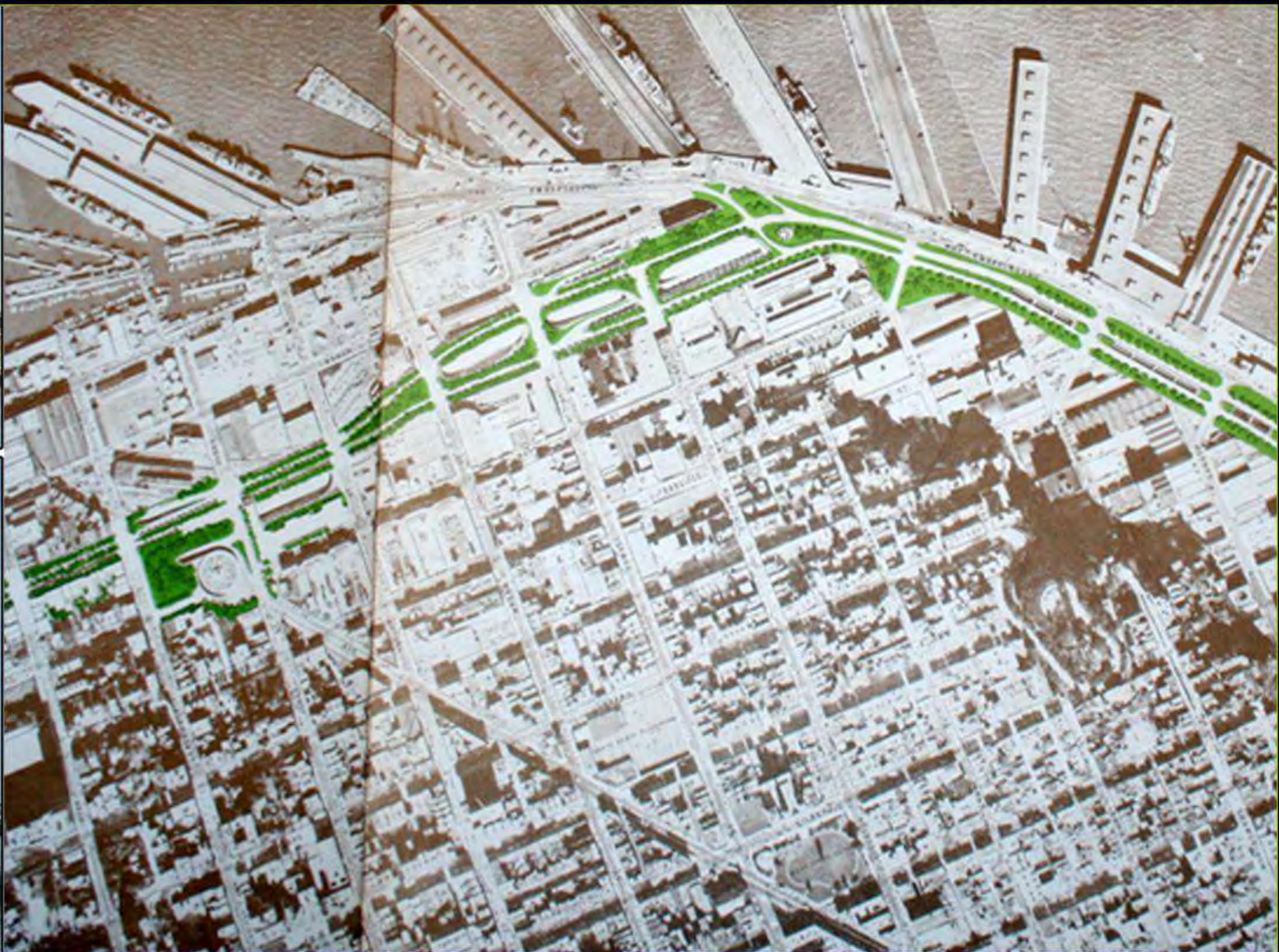
# CASABLANCA

vers un projet de ville

Grand Casablanca

EXPERIENCES INTERNATIONALES BASEES SUR LA TRANSFORMATION DES AUTOROUTES URBAINES

SAN FRANCISCO – Embarcadero Expressway

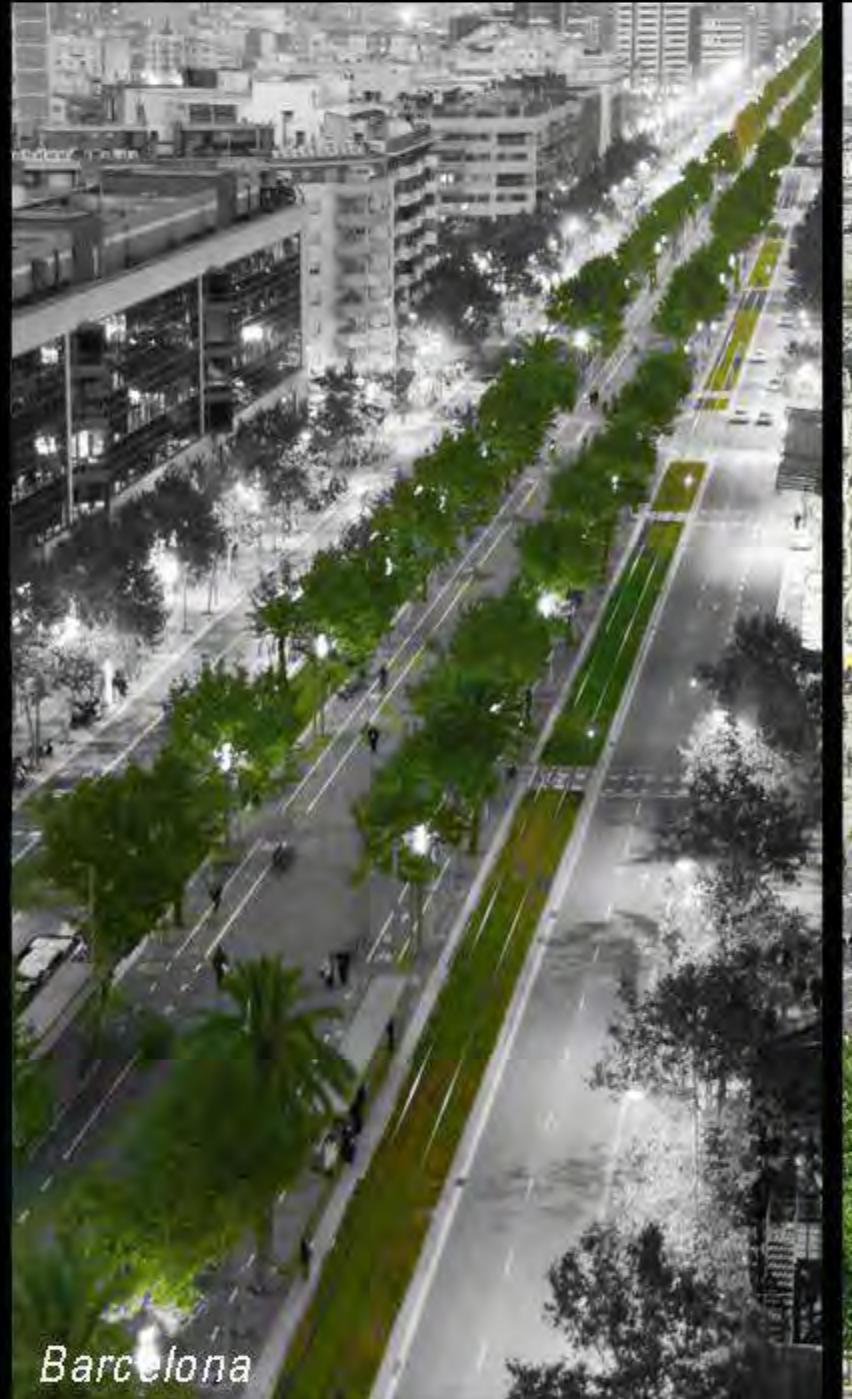


# CASABLANCA

vers un projet de ville

Grand Casablanca

LES DIX CARACTERISTIQUES D'UN ECOBULEVARD



Barcelona



Paris



Madrid



Mexico City





Olympic Village 1992 / Waterfront



Forum of the Cultures 2004 (Before)



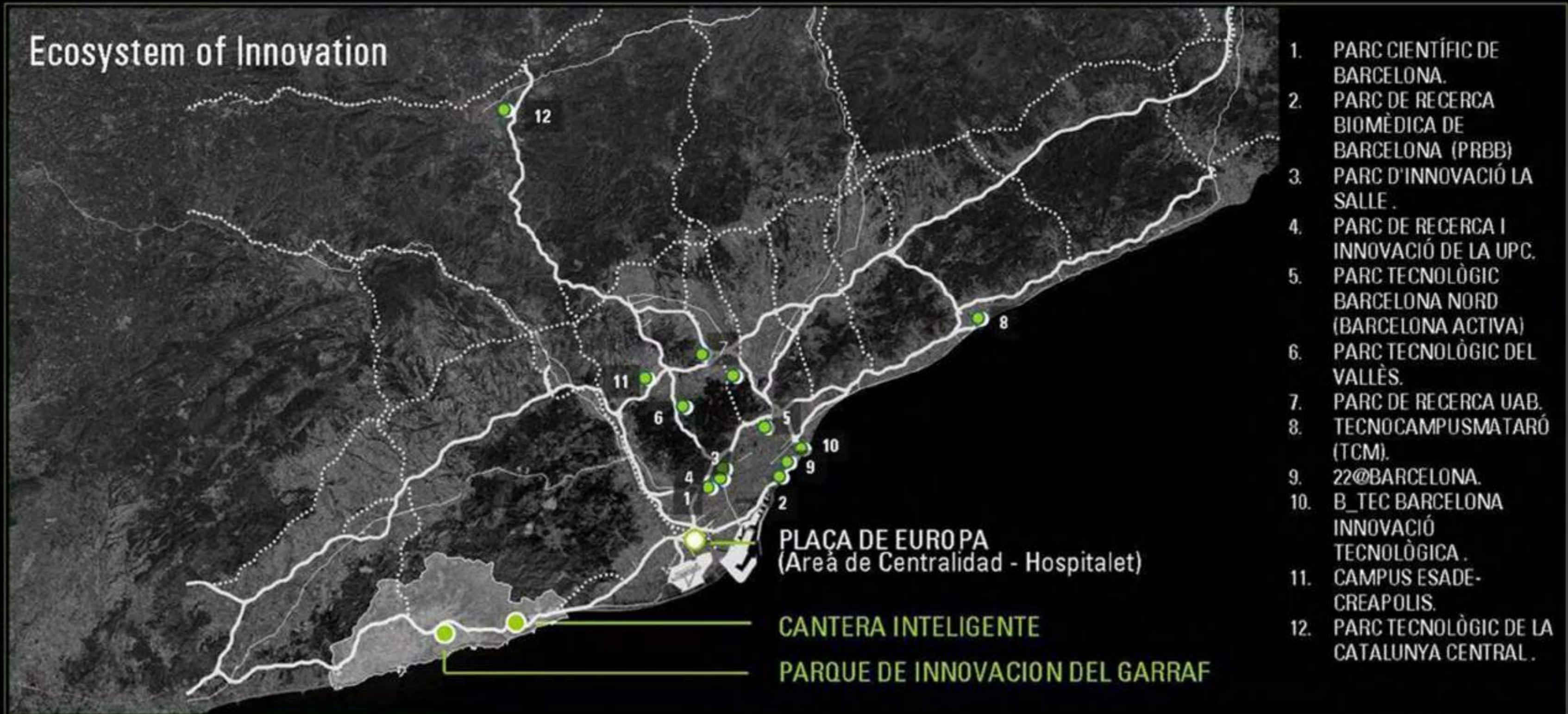


## Waterfront and Innovation District



## Ecosystem of Innovation





SITGES



## LANDSCAPES OF CATALUNYA

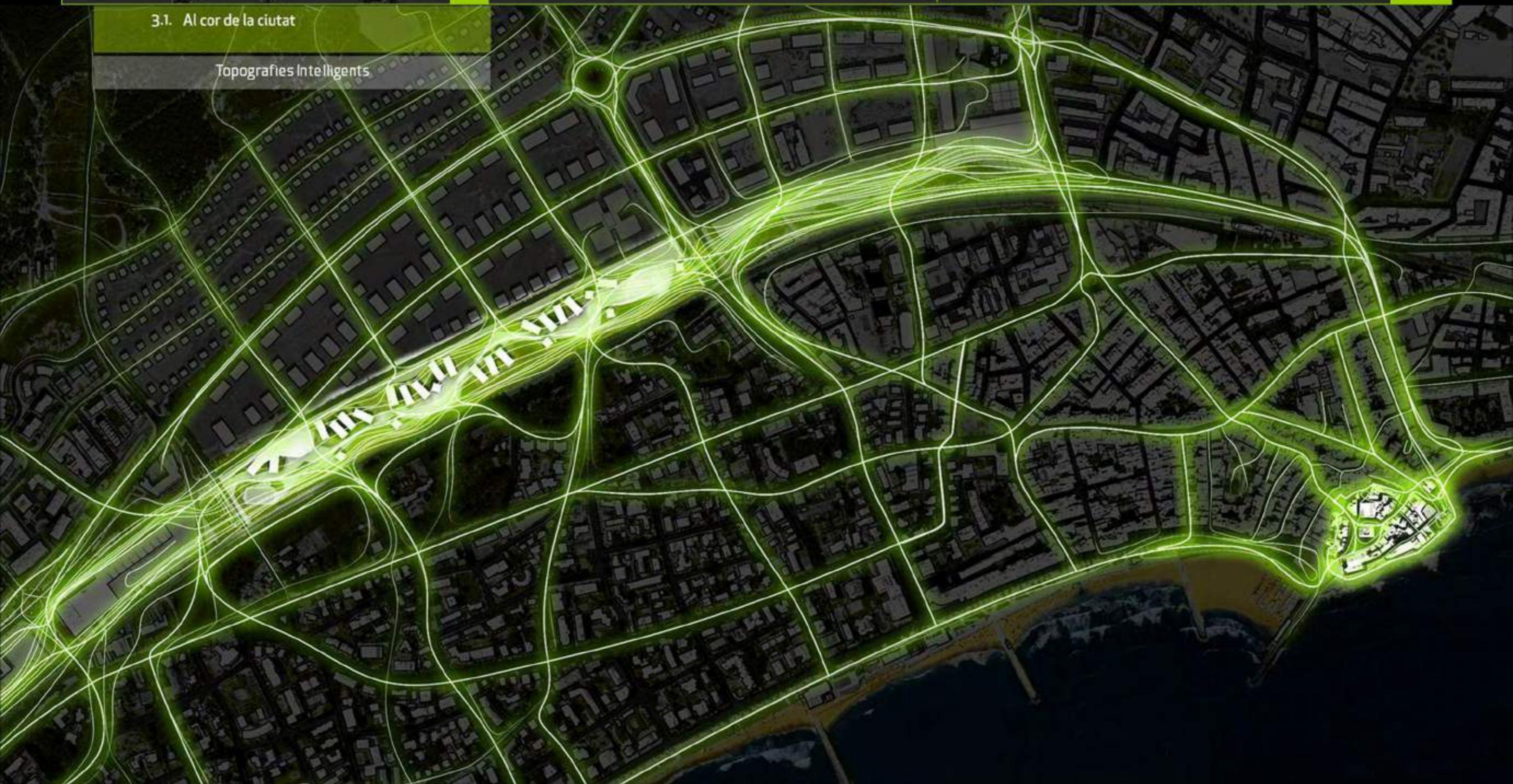


2.1. El Cau Ferrat i l'Espai Mediterrani



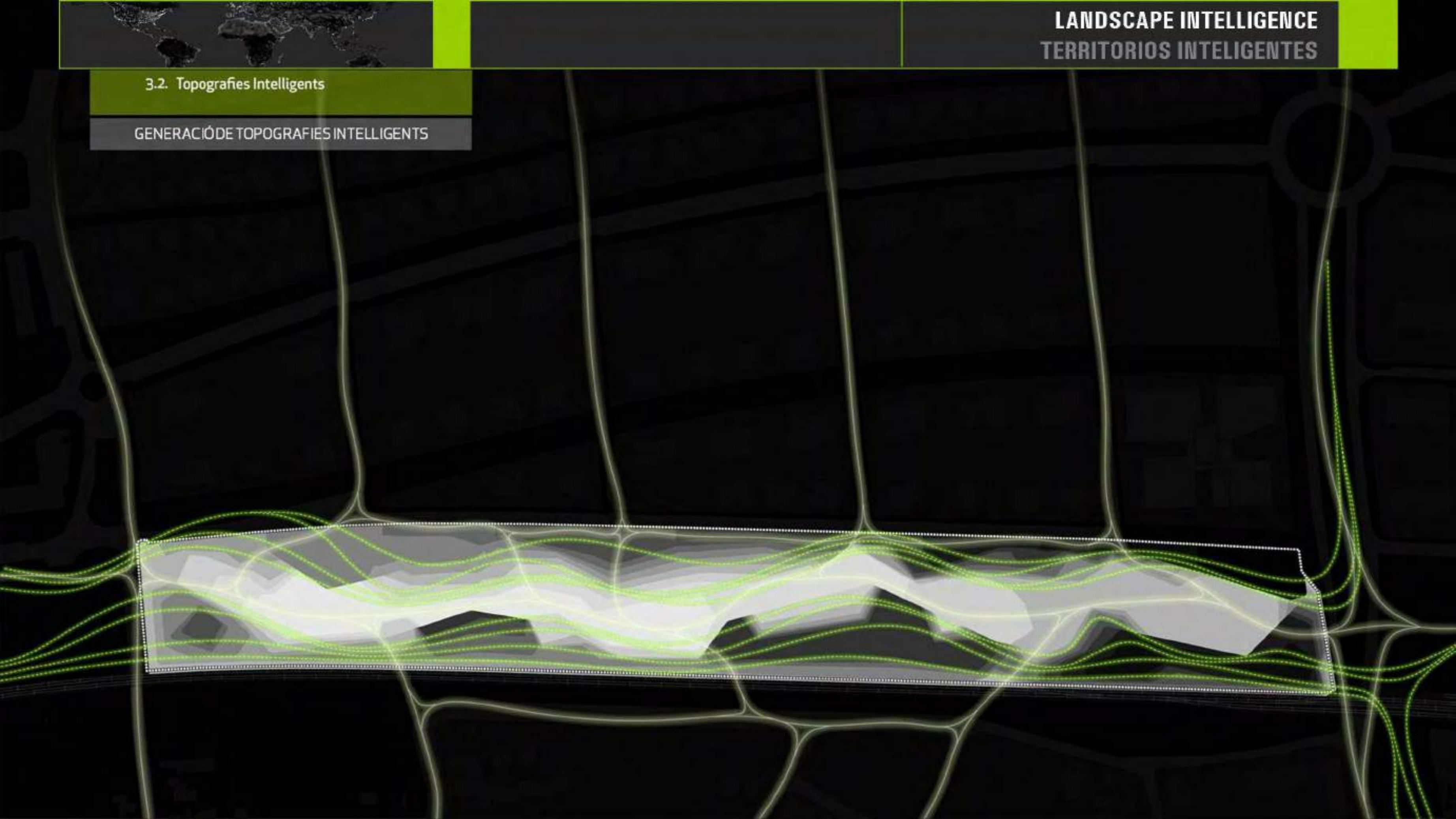
3.1. Al cor de la ciutat

Topografies Intelligents



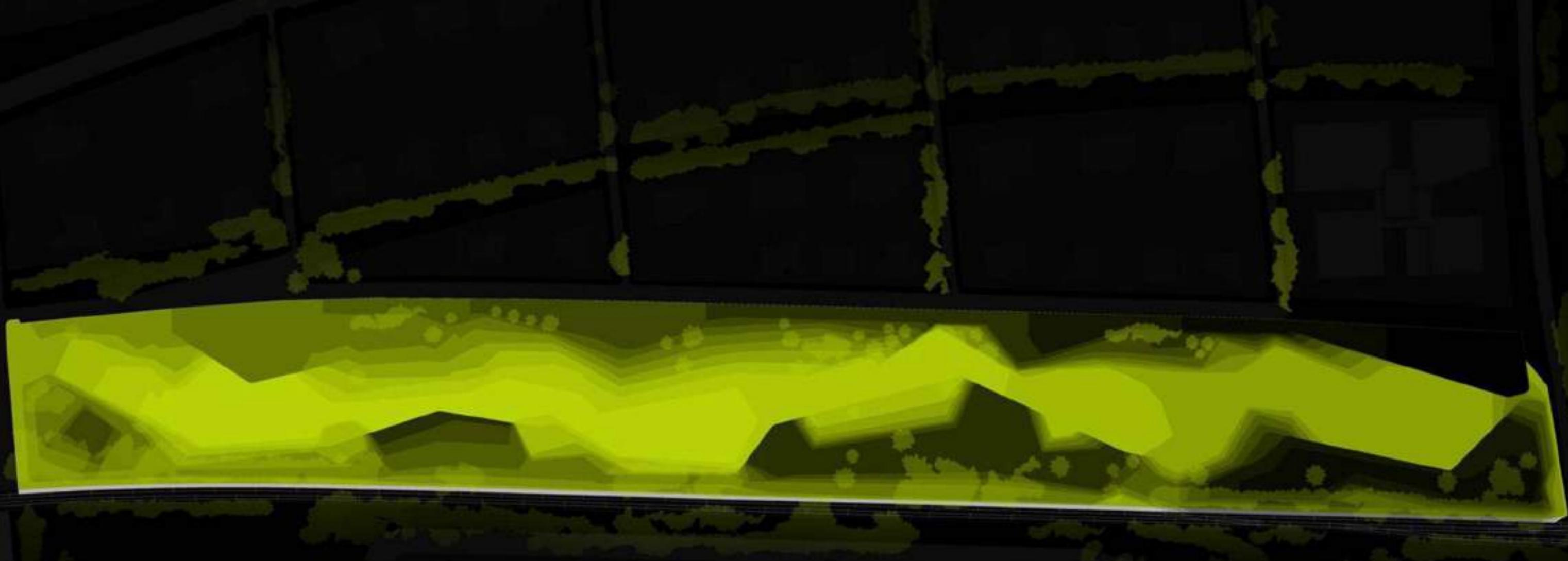
3.2. Topographies Intelligents

GENERACIÓ DE TOPOGRAFIES INTELLIGENTS



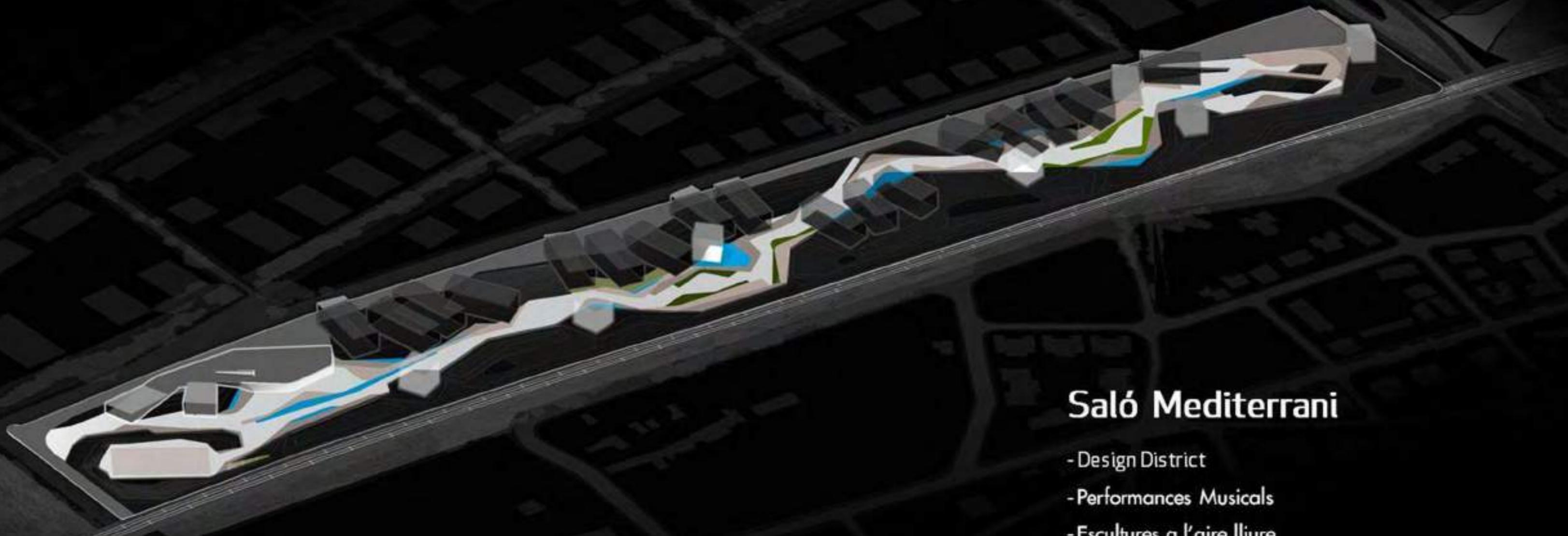
3.2. Topographies Intelligents

TOPOGRAFIES INTELLIGENTS





3.9. El Saló Mediterrani



## Saló Mediterrani

- Design District
- Performances Musicals
- Escultures a l'aire lliure
- Suport d'Art Multimèdia
- Integra circuits de vianants, footing i patinatge en línia
- Lloc de Màxima Interacció Social



3.3. Caus Ferrats del Segle XXI.  
Cubs d'Innovació

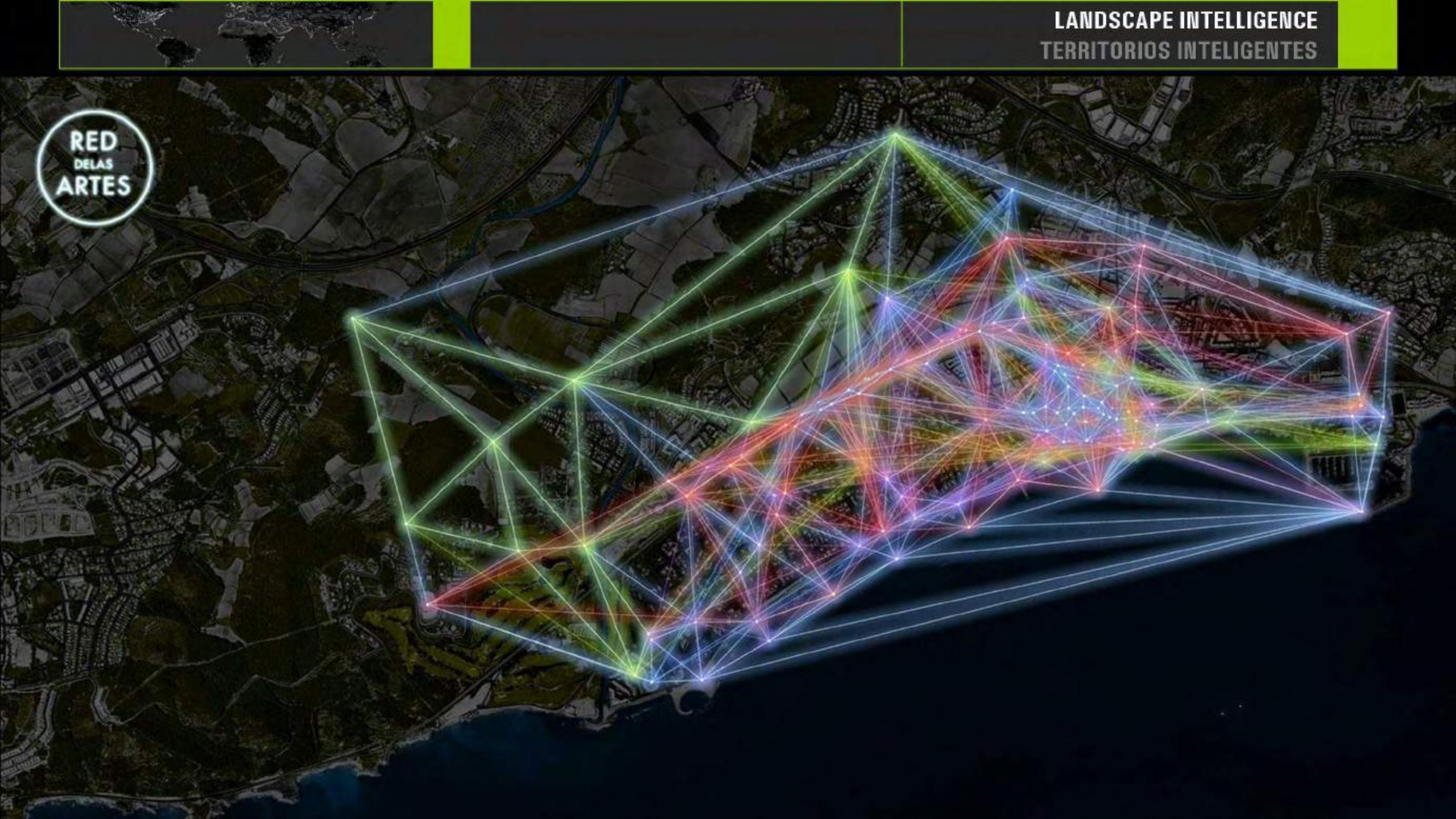




2.1. El Cau Ferrat i l'Espai Mediterrani



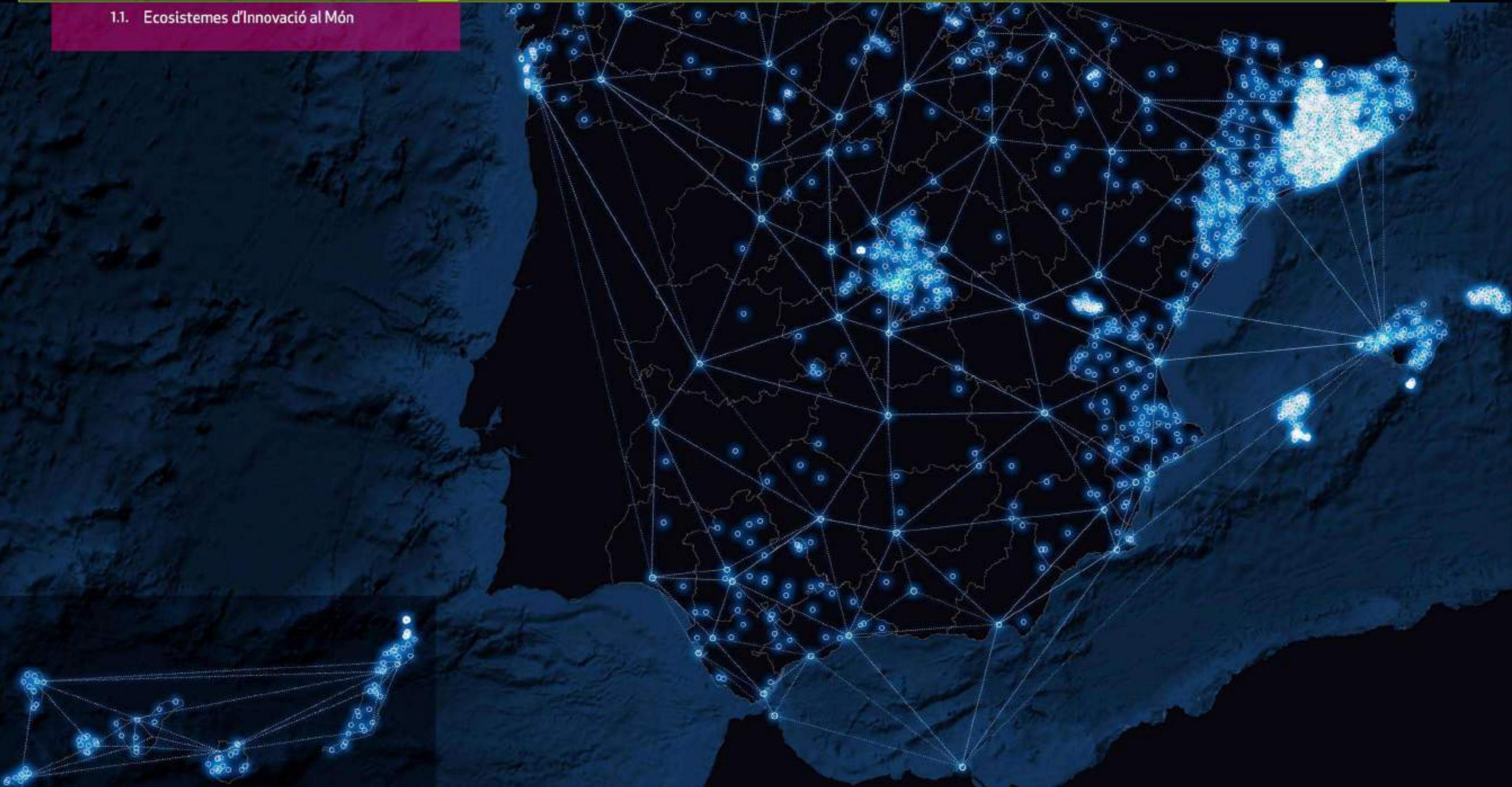
RED  
DELAS  
ARTES



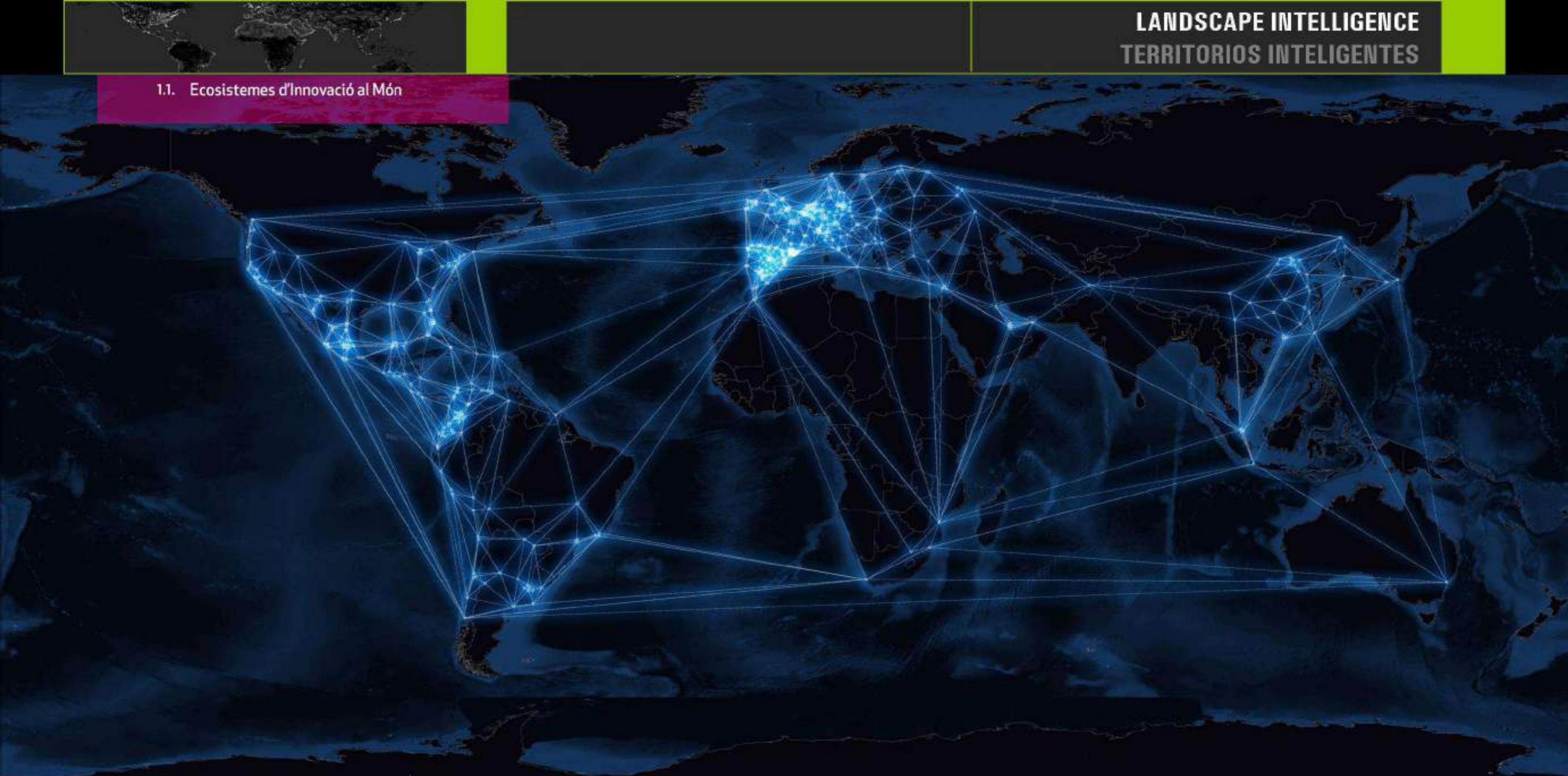
1.1. Ecosistemes d'Innovació al Món



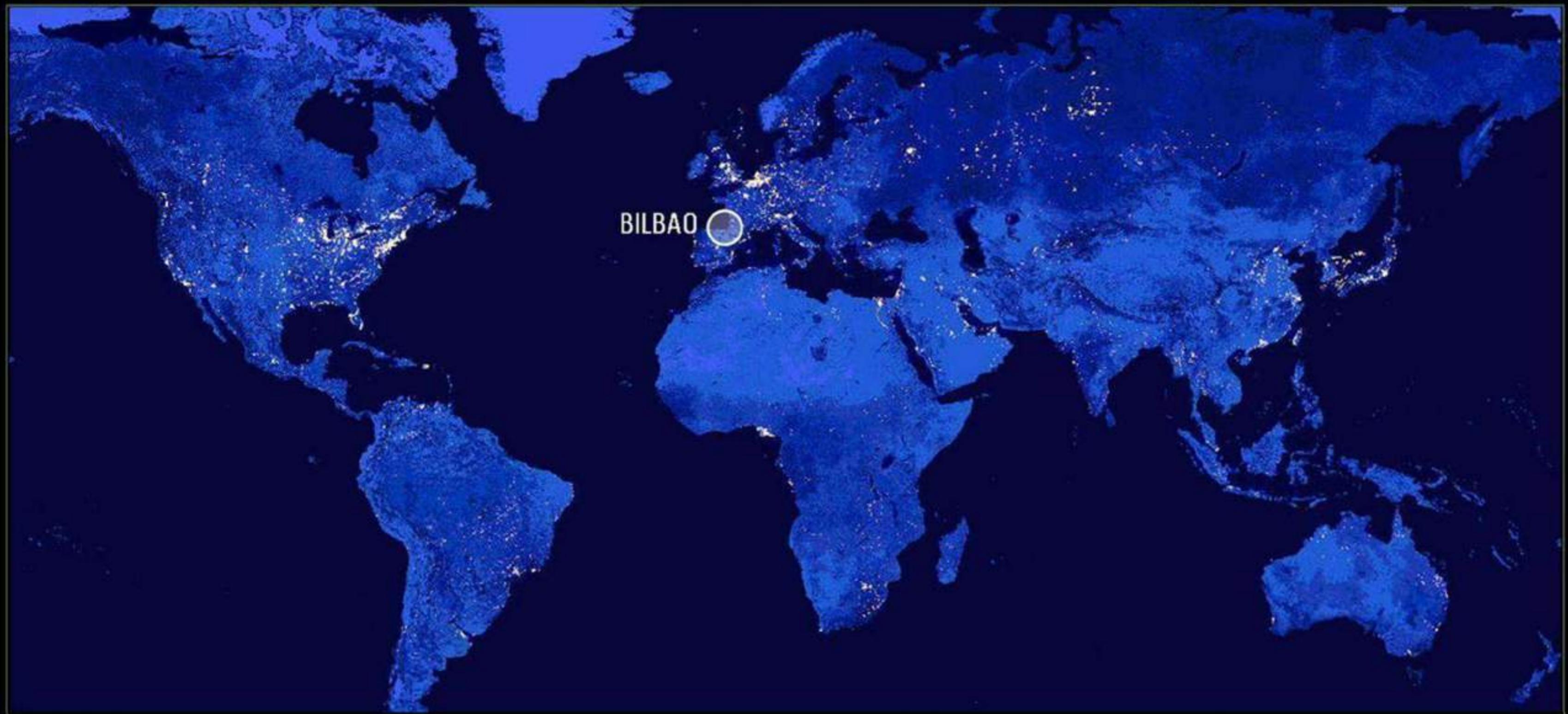
1.1. Ecosistemes d'Innovació al Món

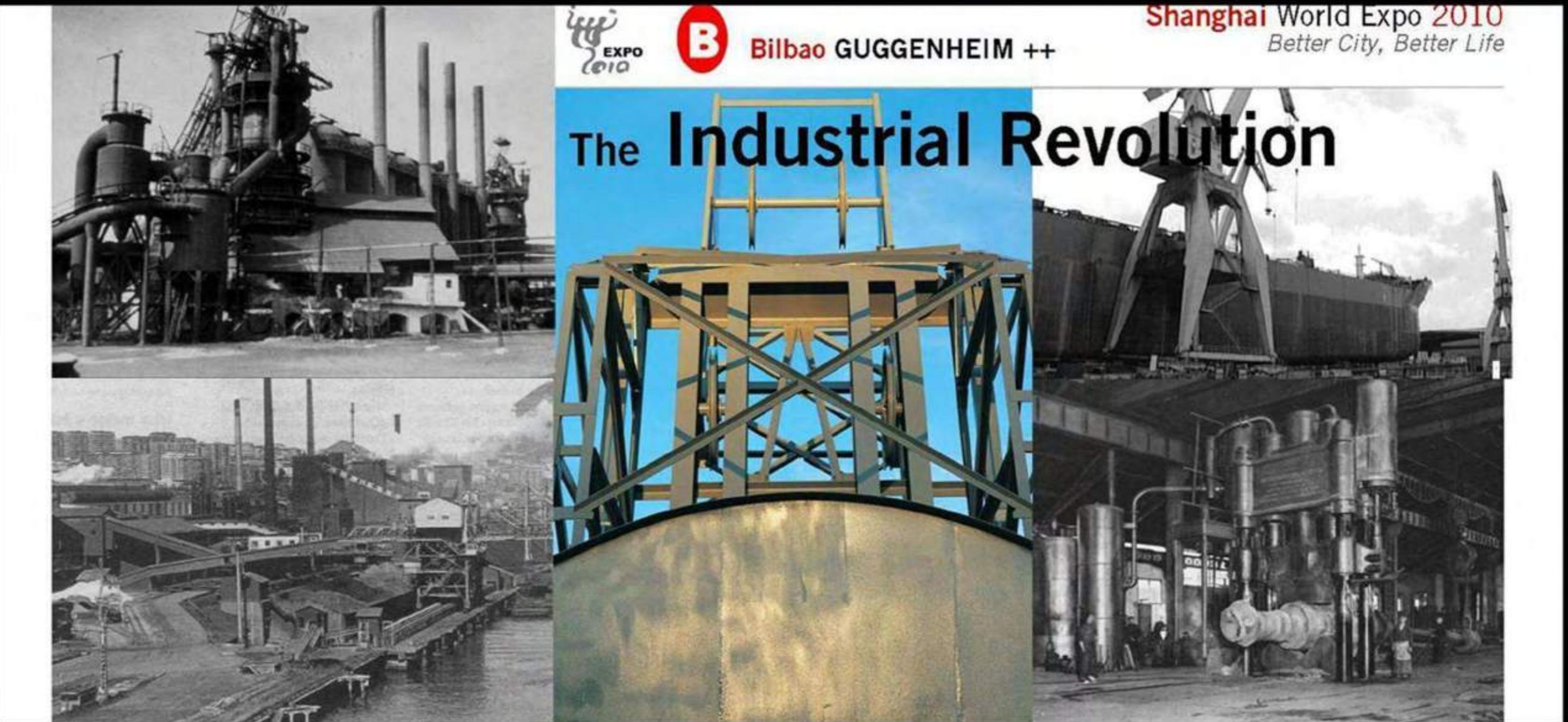


1.1. Ecosistemes d'Innovació al Món









Bilbao GUGGENHEIM ++

Shanghai World Expo 2010  
*Better City, Better Life*

# The Industrial Revolution

# the **floods** of 1983



Bilbao GUGGENHEIM ++

Shanghai World Expo 2010  
*Better City, Better Life*



# the **floods** of 1983



Bilbao GUGGENHEIM ++

**Shanghai** World Expo 2010  
*Better City, Better Life*

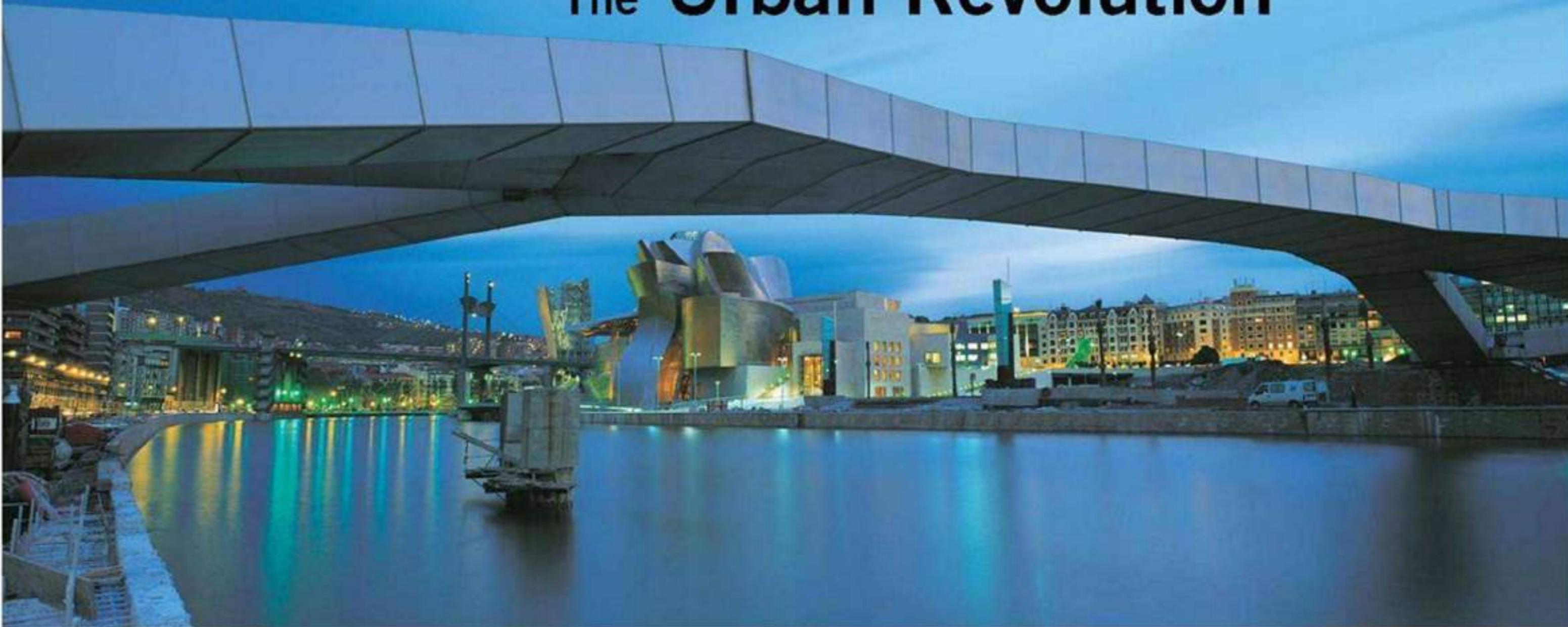


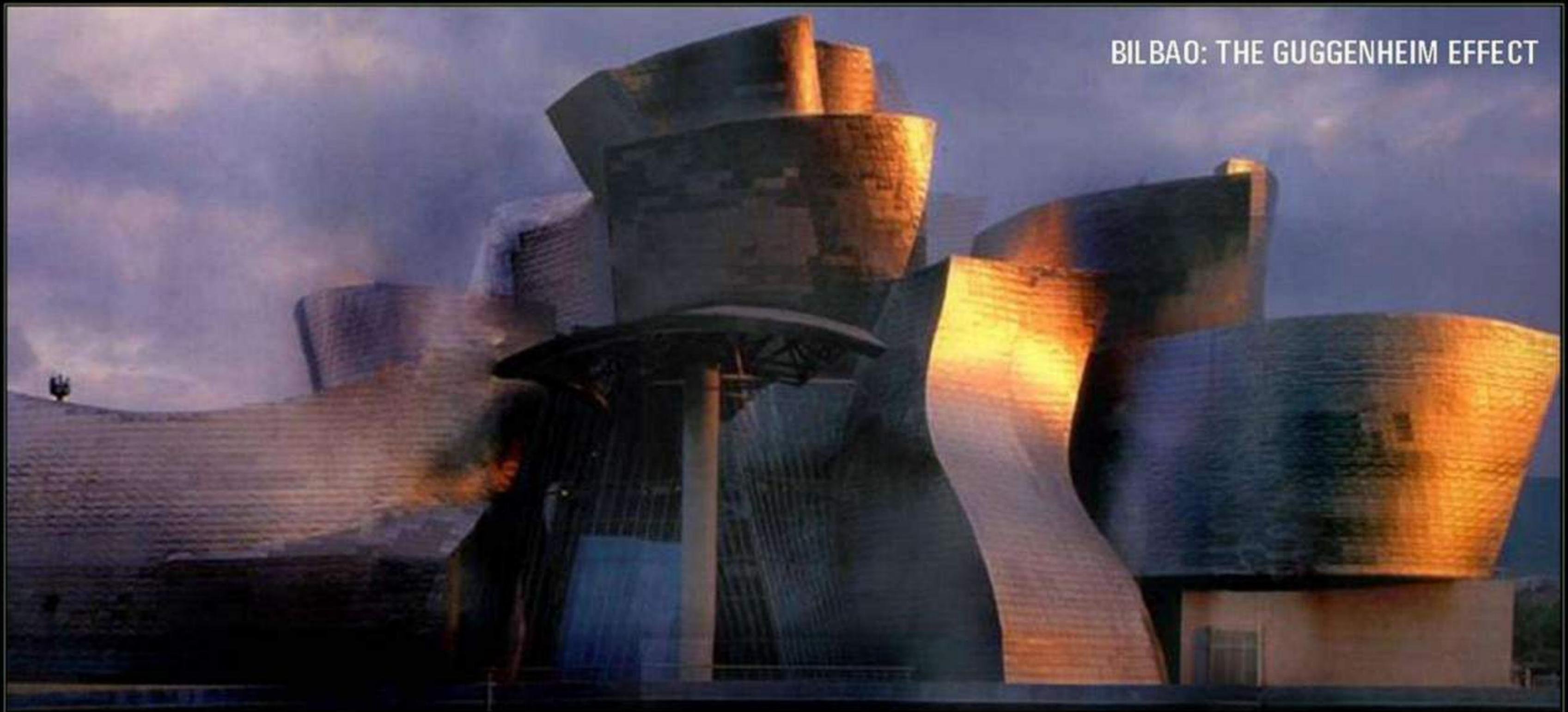


B Bilbao GUGGENHEIM ++

Shanghai World Expo 2010  
*Better City, Better Life*

# The Urban Revolution

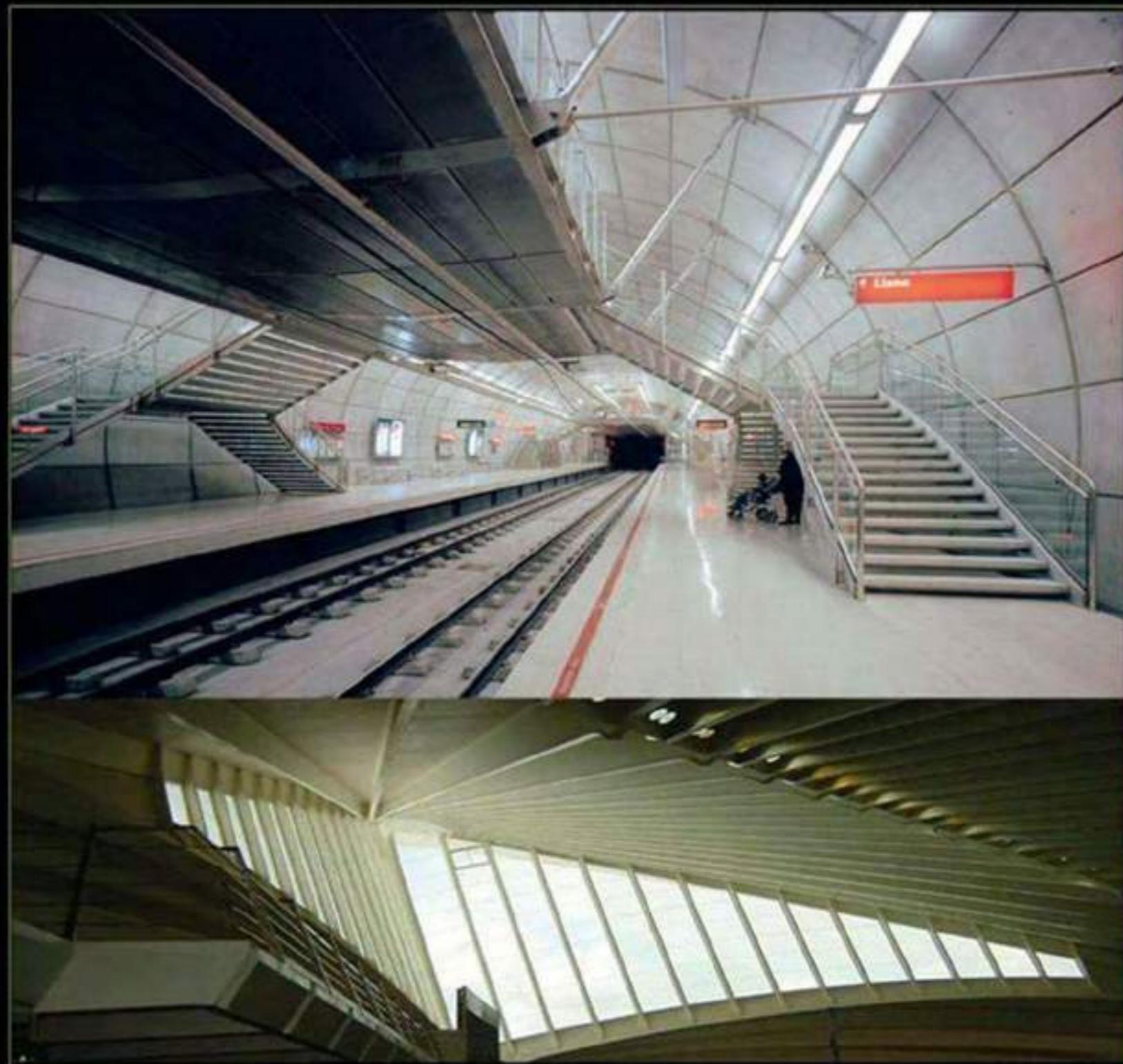




BILBAO: THE GUGGENHEIM EFFECT



Architecture of excellence



BILBAO: THE GUGGENHEIM EFFECT





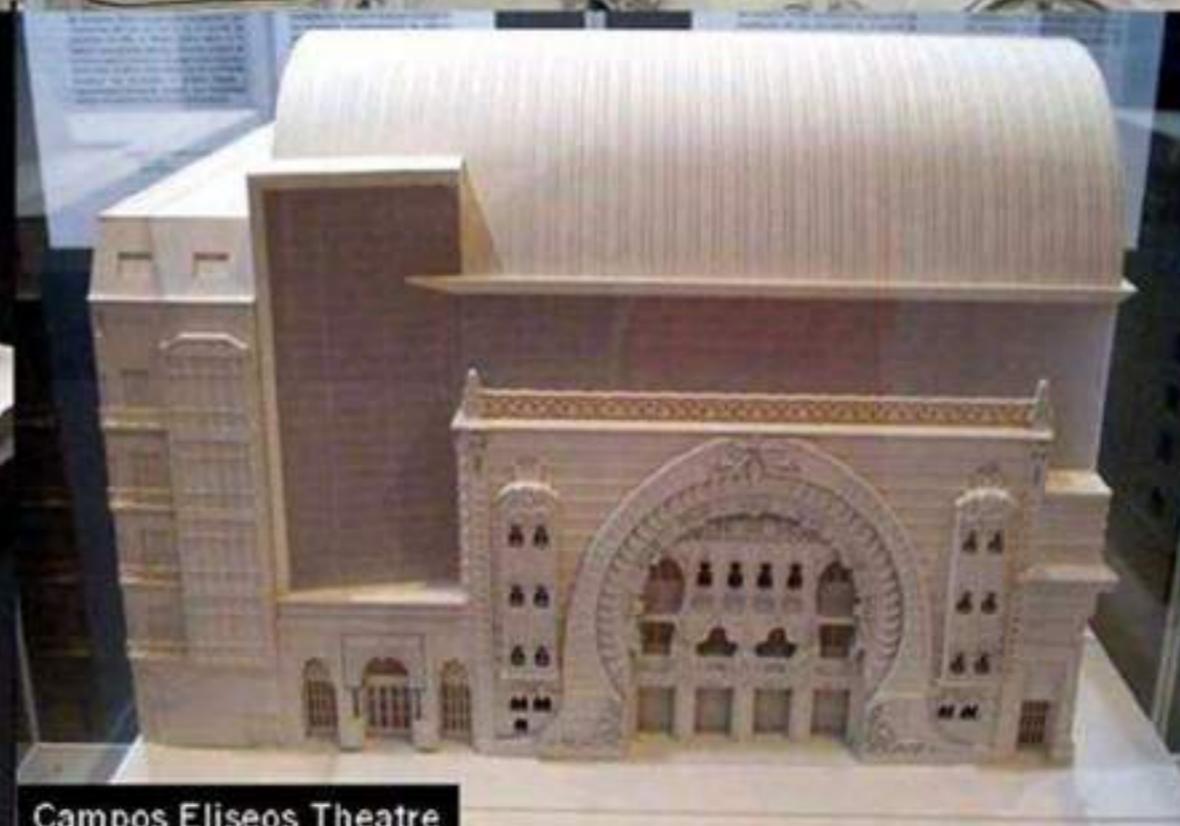
Bilbao GUGGENHEIM ++

Shanghai World Expo 2010  
Better City, Better Life

21 Regeneration of  
Architectural Heritage



Alhóndiga



Campos Elíseos Theatre



Alfonso Vegara

Bilbao

The Urban Revolution



Bilbao GUGGENHEIM ++

Shanghai World Expo 2010  
*Better City, Better Life*

# 11 Museums and Art Institutions



# Bilbao

The Urban Revolution



Bilbao GUGGENHEIM ++

13

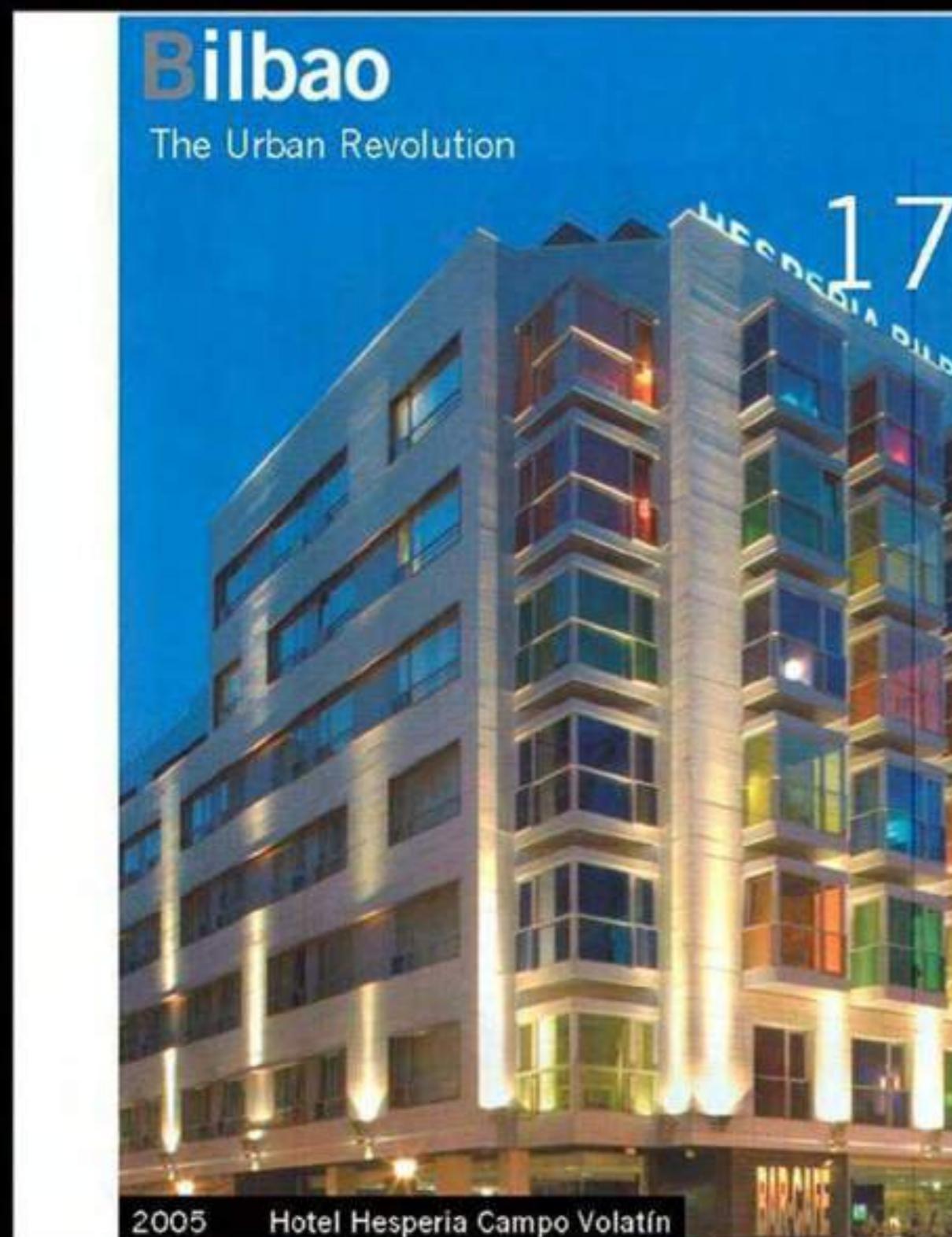


Indautxu Square



Moyua Square





17 New Hotels

Shanghai World Expo 2010  
Better City, Better Life

A collage of architectural images. On the left, a modern cityscape featuring several skyscrapers, one with a green grid pattern and another with blue glass panels. In the center, a large image of the Bilbao Guggenheim Museum's curved, illuminated glass and steel structure at night, with the text "Bilbao's new Architecture". Below it is a smaller image of the Deusto Library by Rafael Moneo, showing its white, angular concrete facade. To the right, a large image of the Euskotren train station by Zaha Hadid, characterized by its dark, undulating, and cantilevered roof. At the top right, text for the Shanghai World Expo 2010 is visible.

Arata Isozaki - Isozaki Atea

22 Bilbao's new **Architecture**

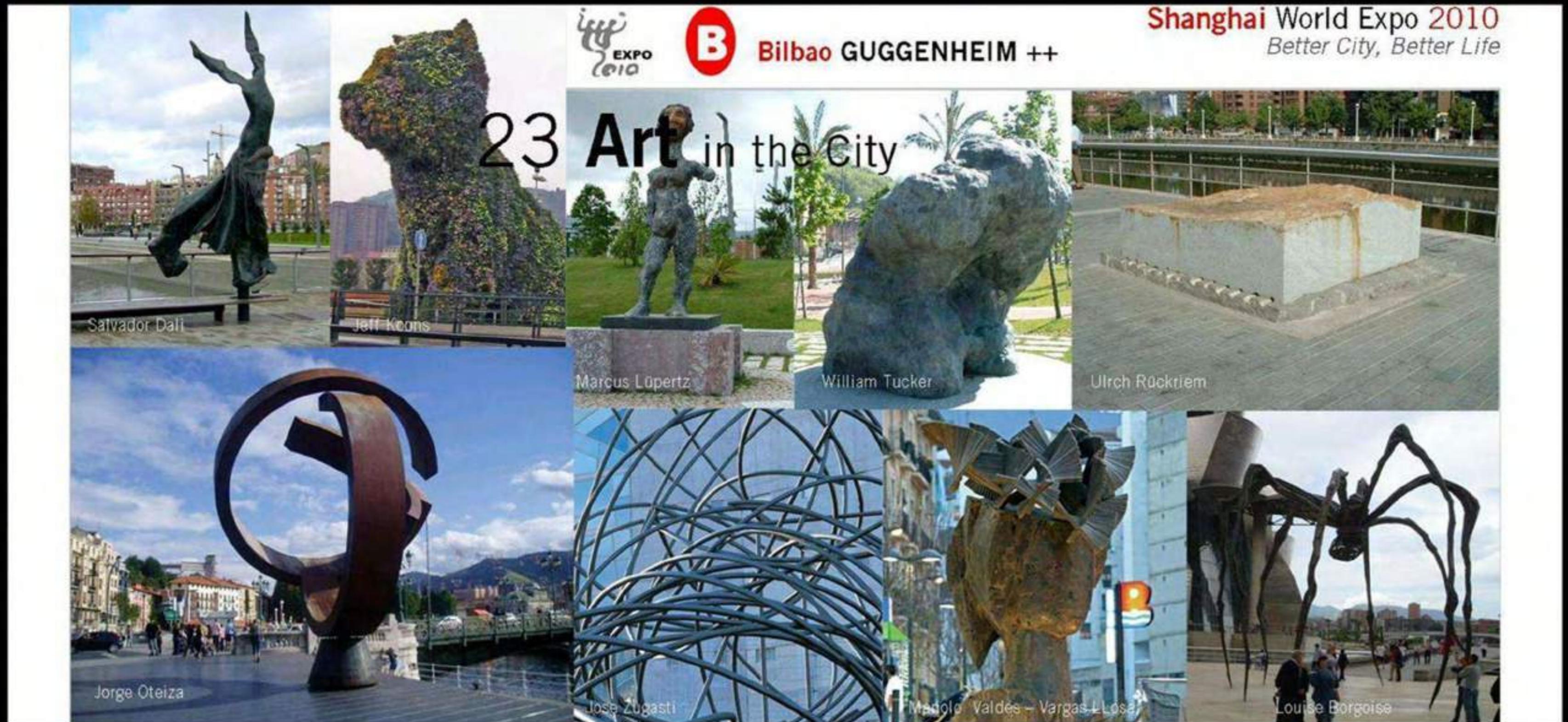
Norman Foster - Underground

Rafael Moneo - Deusto Library

Zaha Hadid - Euskotren, Durango

Bilbao GUGGENHEIM ++

Shanghai World Expo 2010  
Better City, Better Life



# Inaugural Prize Laureate

## Bilbao City Hall

was awarded in recognition of its integrated and holistic approach in urban transformation.

*(Prize presented at the Lee Kuan Yew Prize Award Ceremony and Banquet on 29 Jun 10)*



Etapa Industrial

Transformación Urbana

Sociedad del Conocimiento

1880

1900

1920

1940

1960

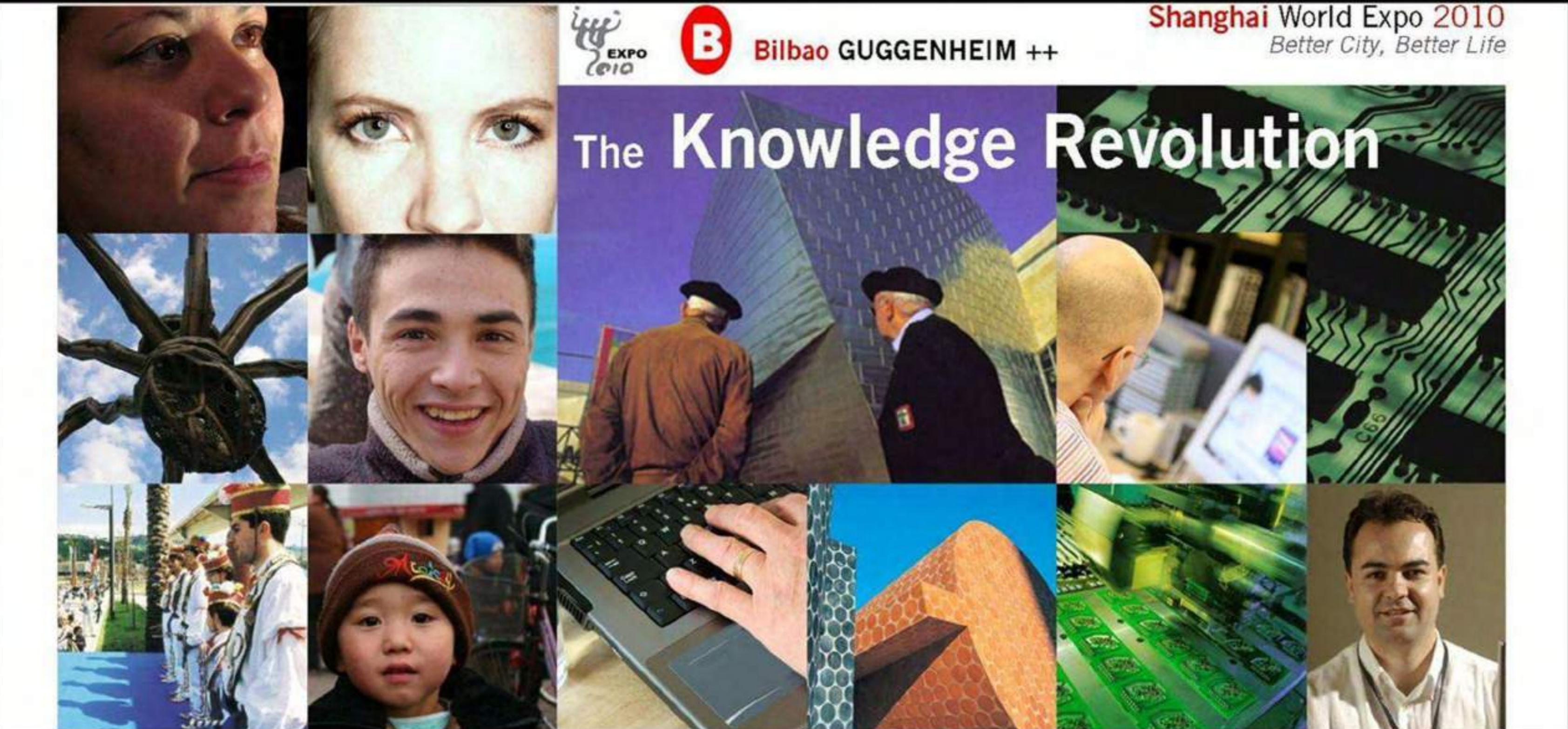
1980

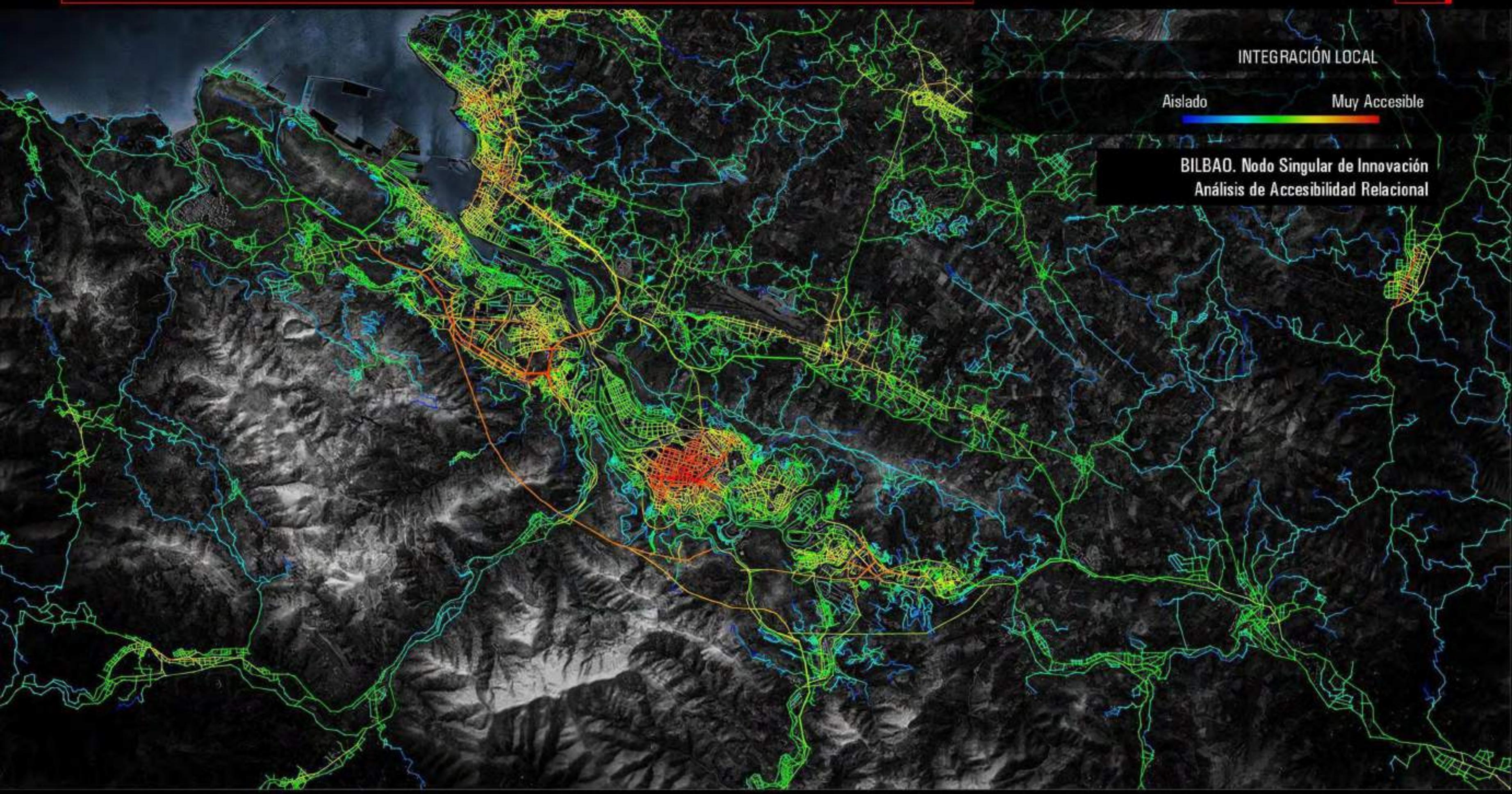
2008

2020

...

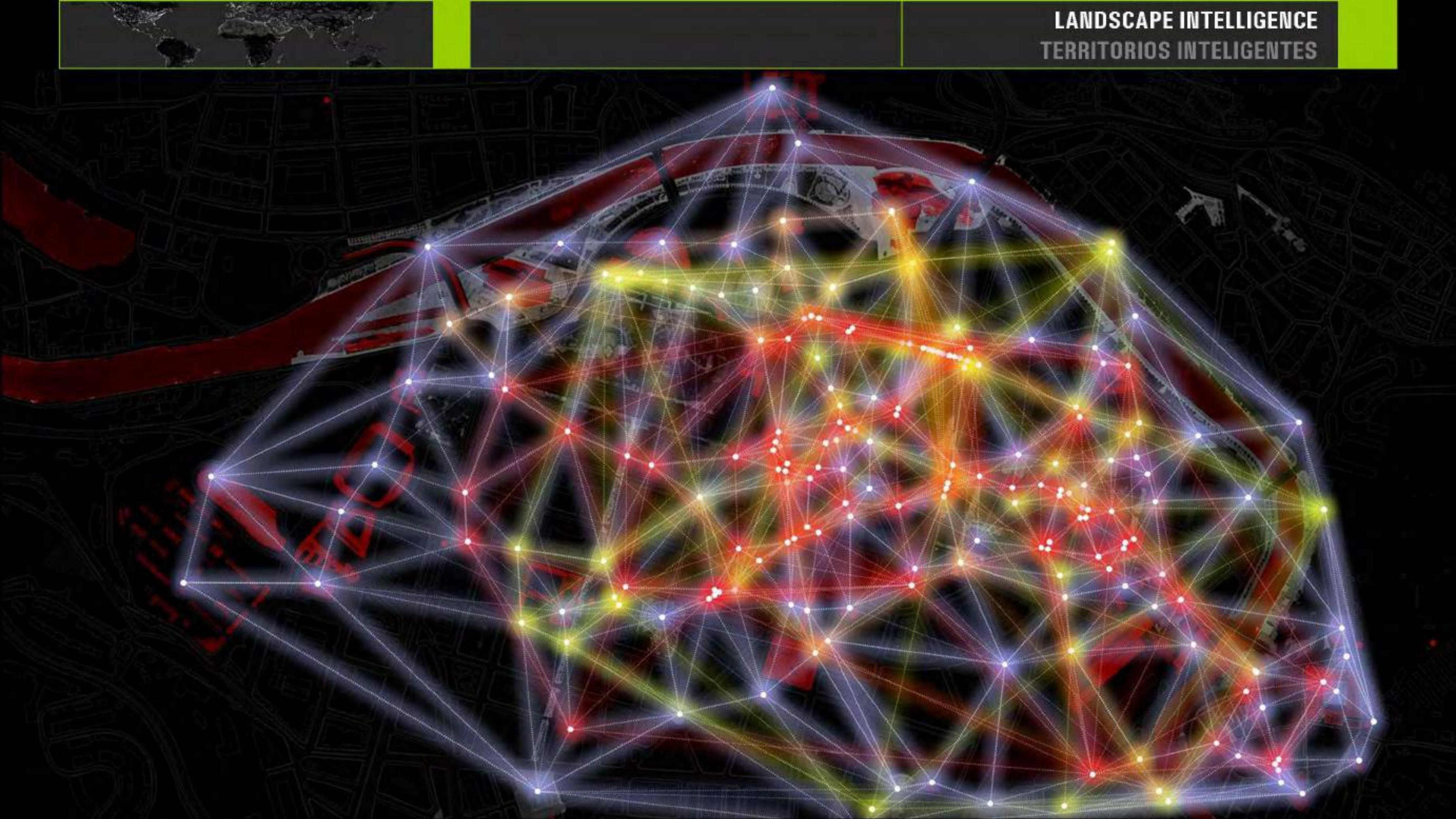












## Digital Revolution



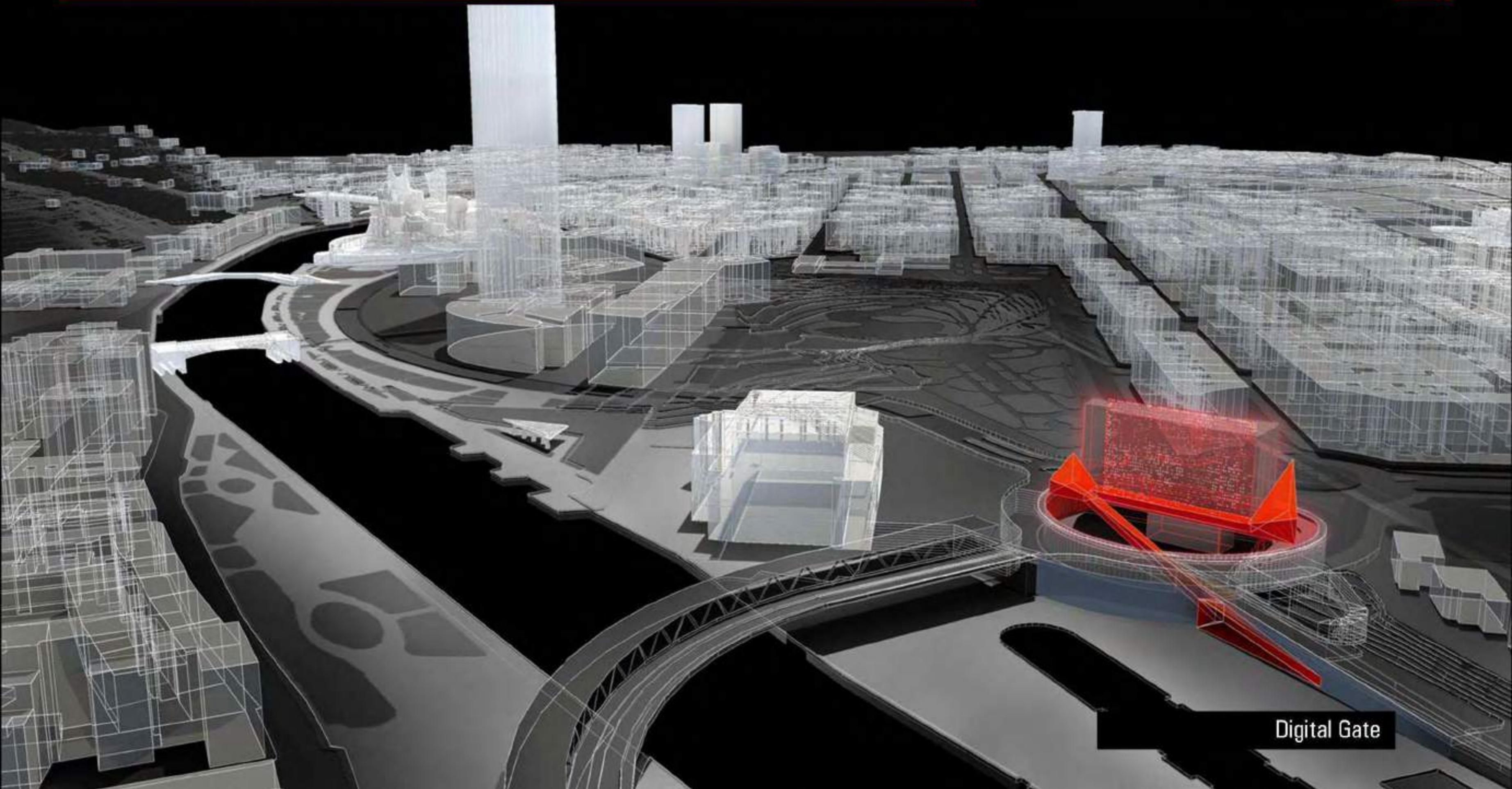
## Some Suggestions on the Bilbao DC Physical Space

Digital Gate.

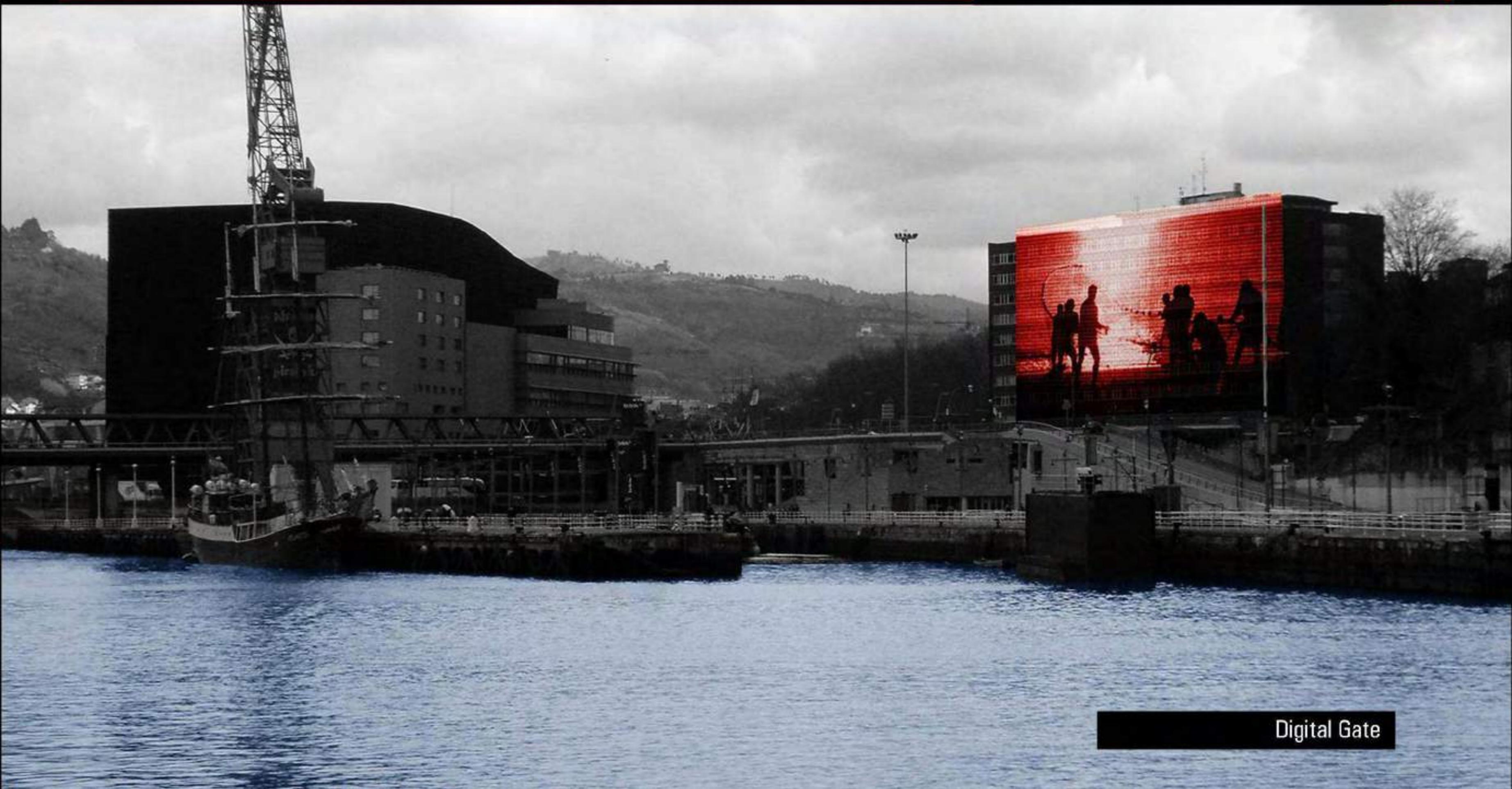
Digital Gate



Digital Gate



Digital Gate



Digital Gate



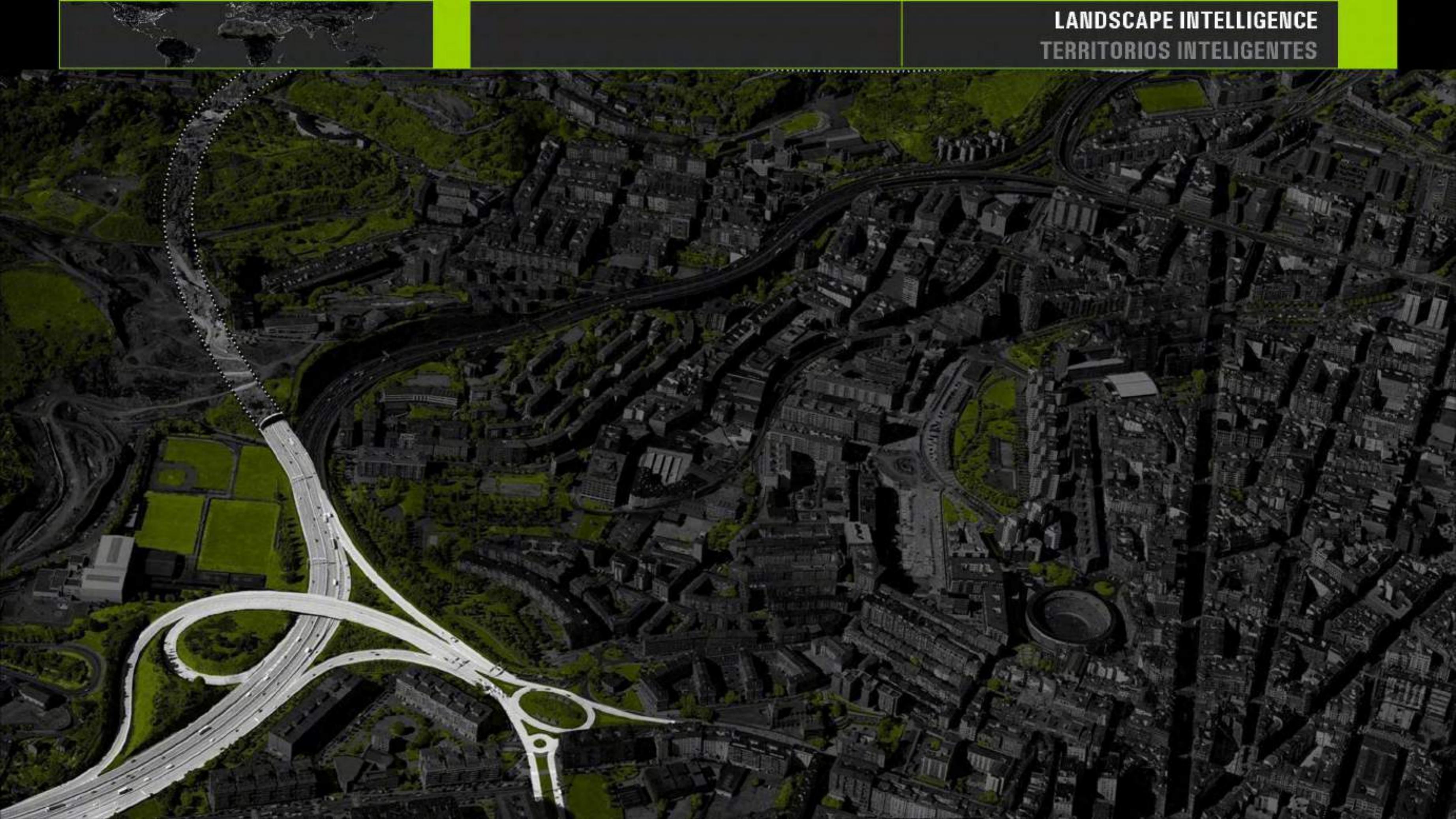
Digital Gate



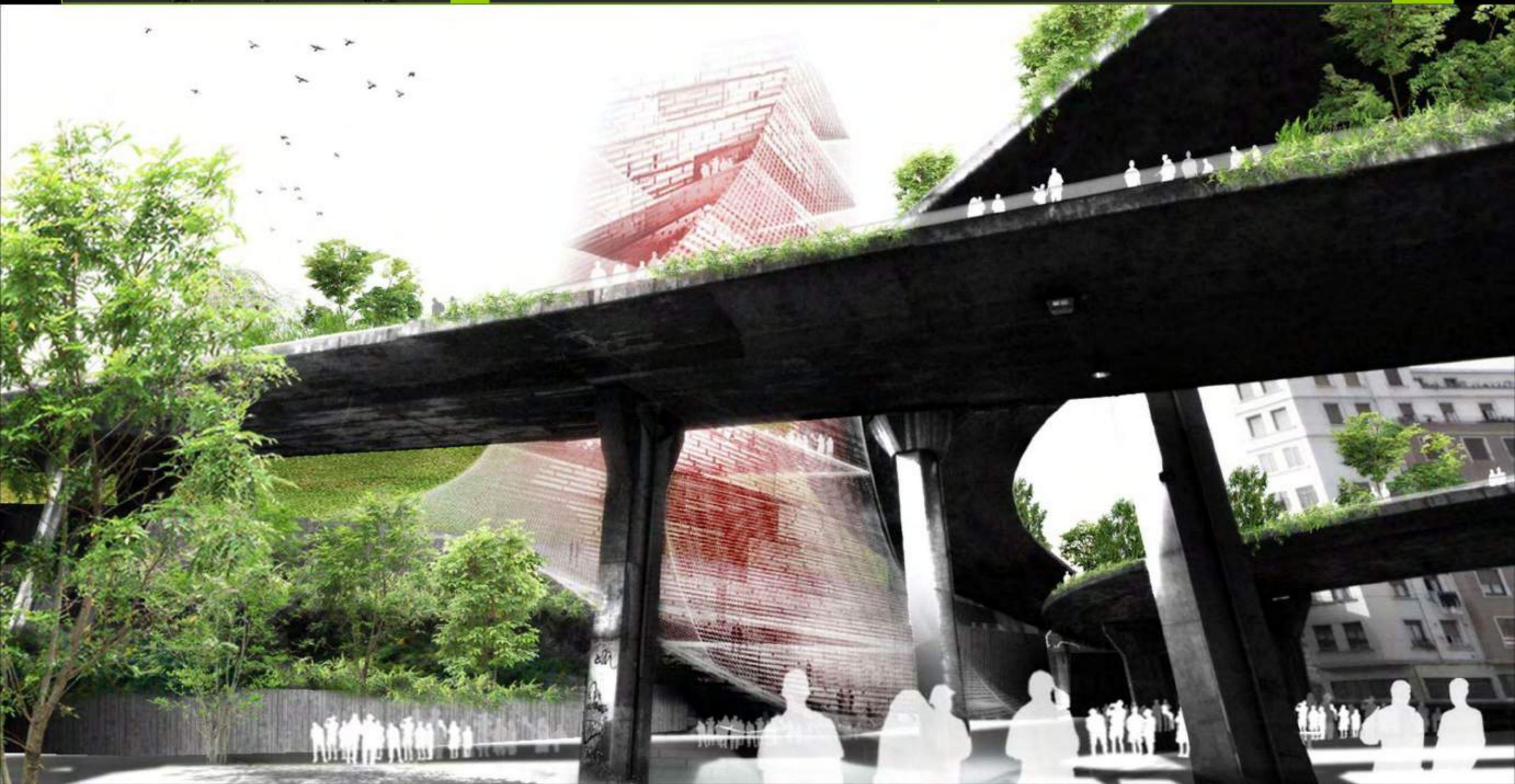
Digital Gate

LANDSCAPE INTELLIGENCE  
TERRITORIOS INTELIGENTES



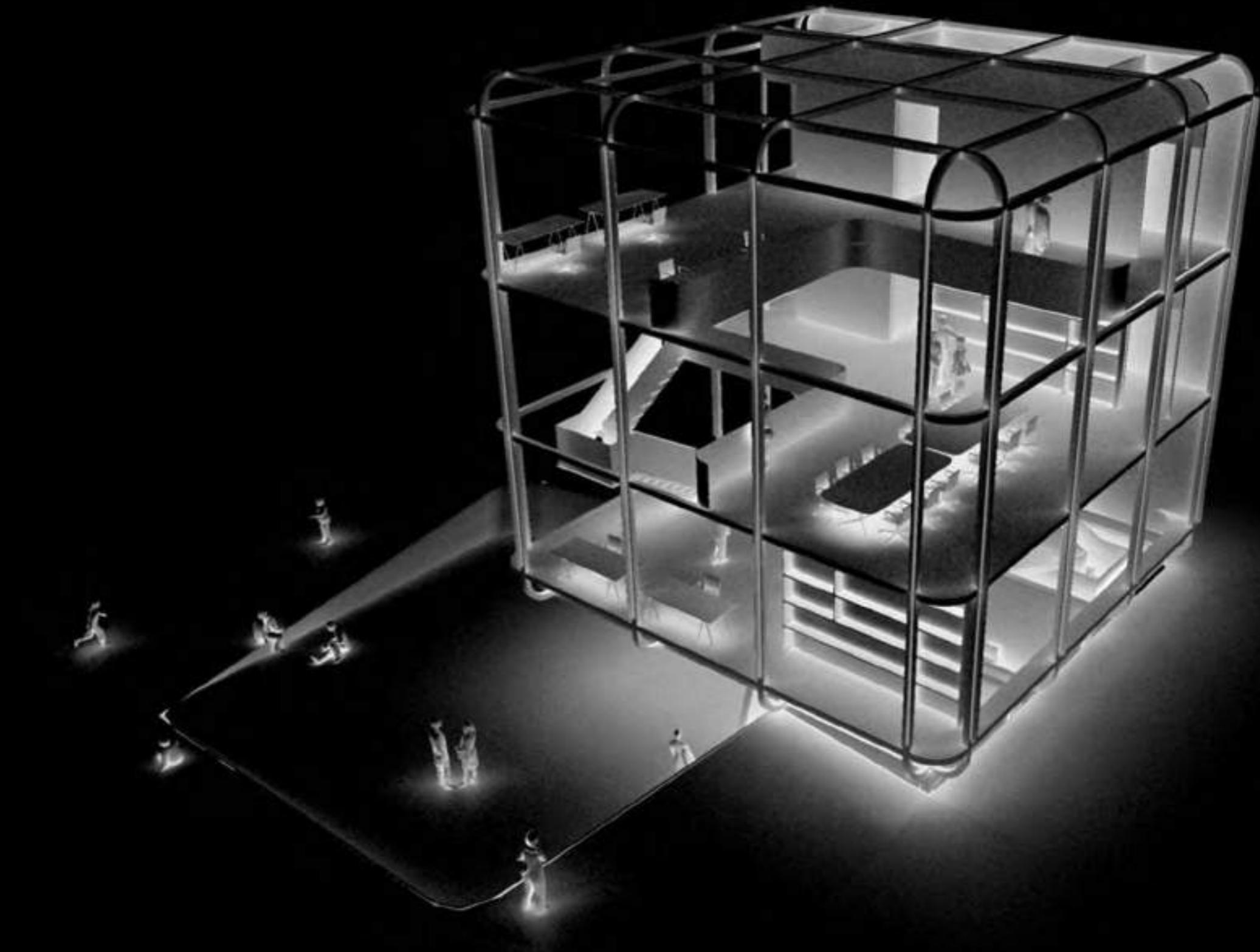
















## Some Suggestions on the Bilbao DC Physical Space

Renovation of old industrial buildings for creative activities

Renovation of old industrial buildings for creative activities



Renovation of old industrial buildings for creative activities



Renovation of old industrial buildings for creative activities



# Bilbao. Strategic Diagnosis and Options for the Future

Bilbao DC



# Art and Technology. DESIGN



Art Schools  
Art Institutions  
Museums  
Galleries  
Sculpture  
Digital Art  
Ars Electronica  
Fashion Design  
Graphic Design  
Furniture Design  
Product Design  
New Materials  
Videogames  
Art and Territory  
International Events  
Art and Culture Centers  
Scenic Arts

**THREE INNOVATION AXIS**

# Tourism, Quality of life, Health

Cultural Tourism  
Business Tourism  
Health Tourism  
Culinary Tourism  
Nature Tourism  
Rural Tourism  
Third-Age Tourism  
Health Checks  
Anti-aging  
Curative Health  
Health Assistance  
Sports Health  
Transportation Services  
Travel Agencies  
Healthy Diet  
Restaurants  
Hotels

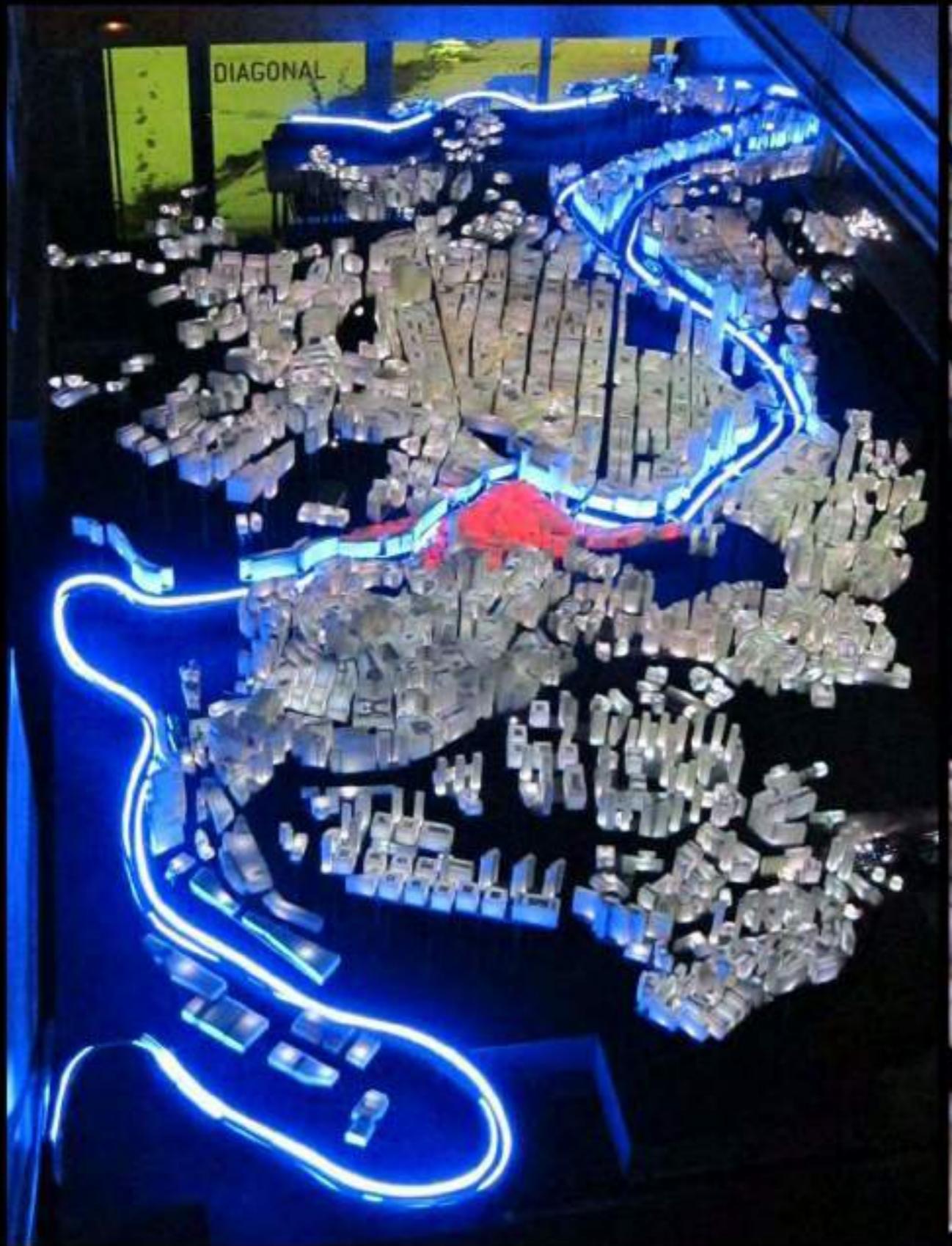


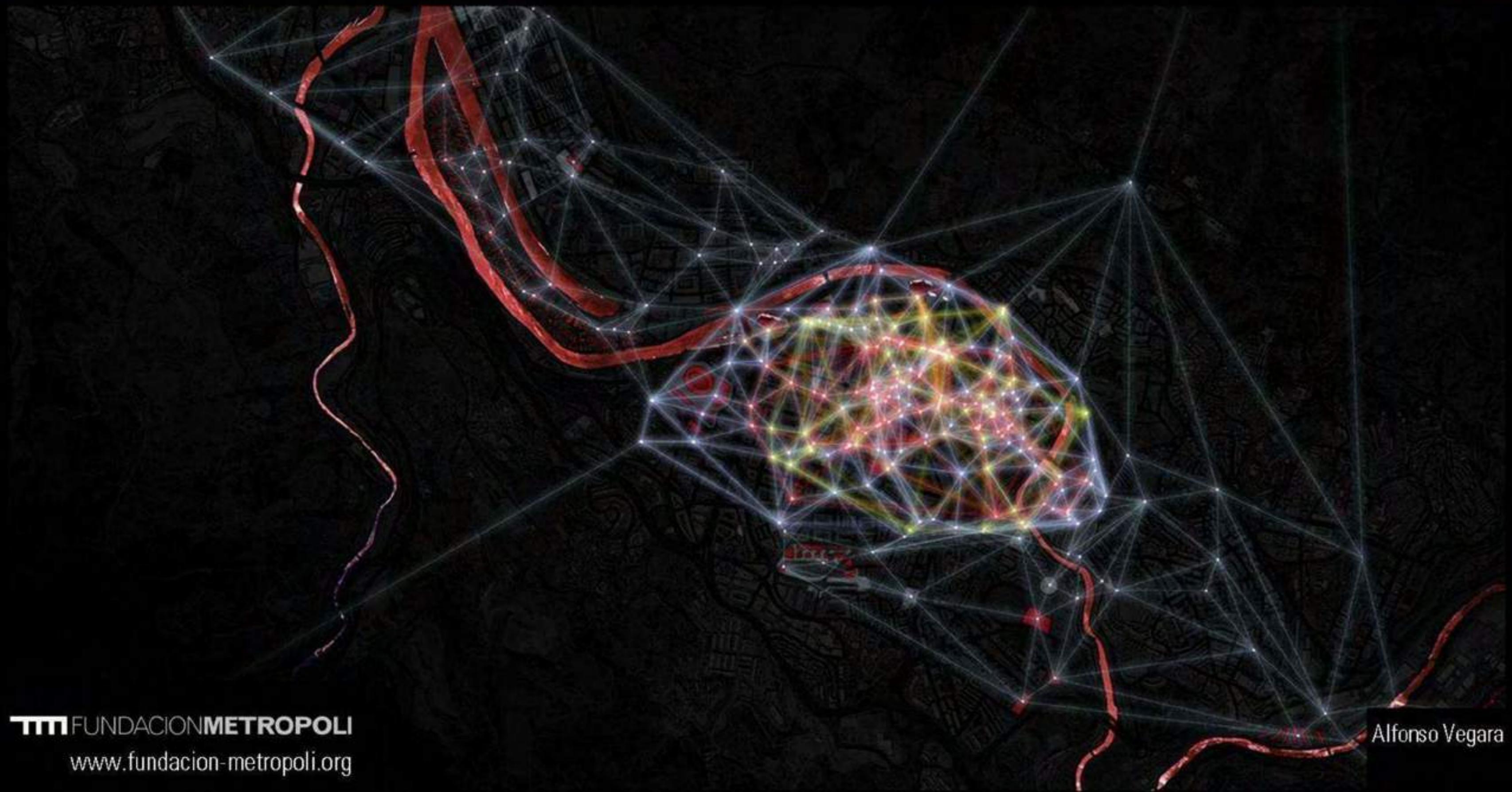
# Eco-Technology and Urban Solutions

Architecture  
Urban Design  
Foundations  
Bioclimatic Architecture  
Zero Buildings  
Alternative Energies Development  
Sports Facilities  
Eco-Construction  
Eco-Technology  
Engineering  
Smart Districts  
Research Centers  
Hybrid Buildings  
Urban Transportation  
Sustainable Mobility



THREE INNOVATION AXIS







# What is the Scale of Bilbao in the New International Economic Order?

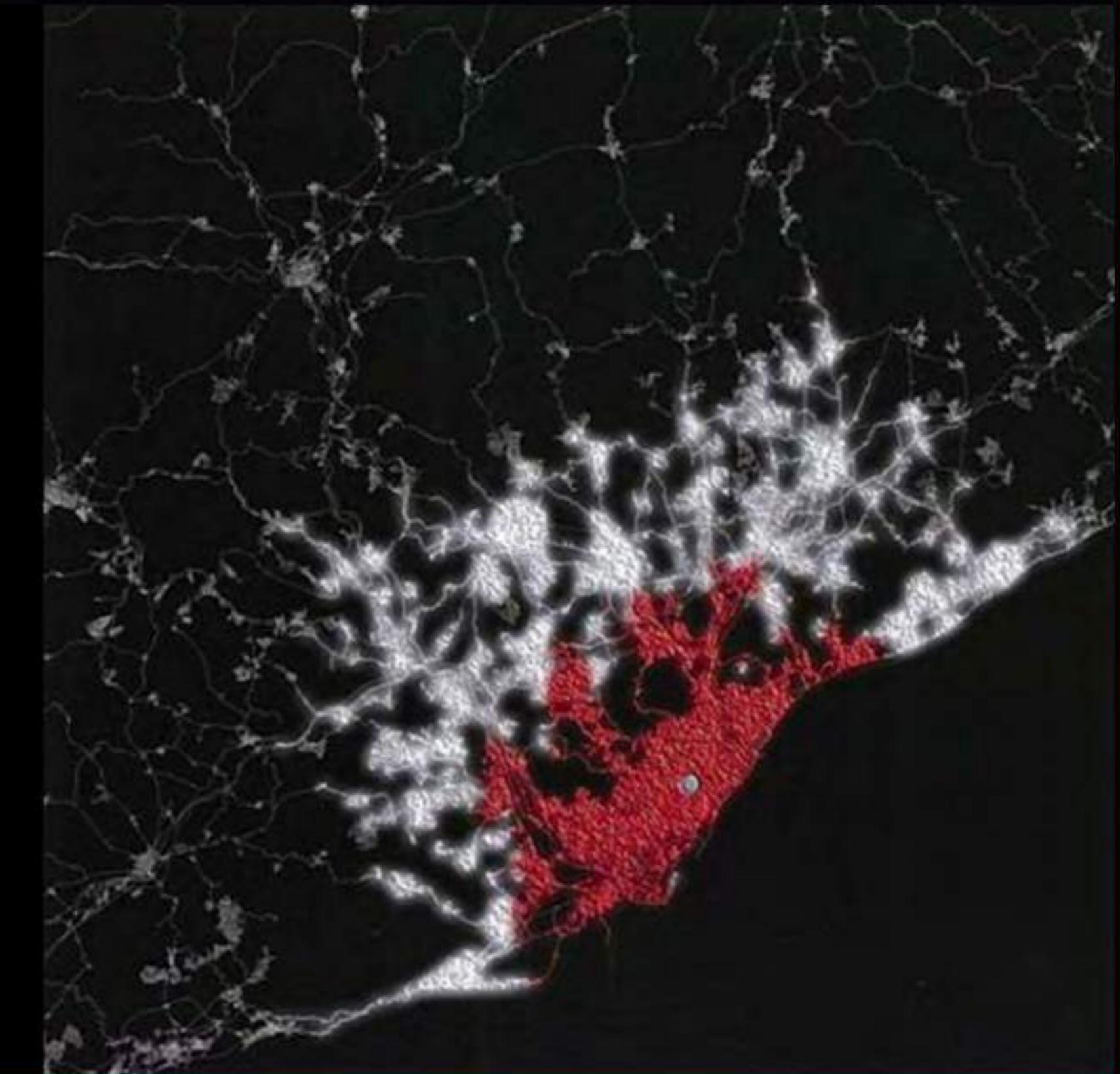
BilbaoNext

Bilbao Bizkaia Next

# BARCELONA

■ BARCELONA 45 MIN. Population: 1.621.537 (INE 2009)

BARCELONA 90 MIN. Population: 3.905.300 (INE 2009)



FUENTE: Fabio Casirola, "Khrónopolis, Accessible City, Feasible City" pp 26.

# MILAN



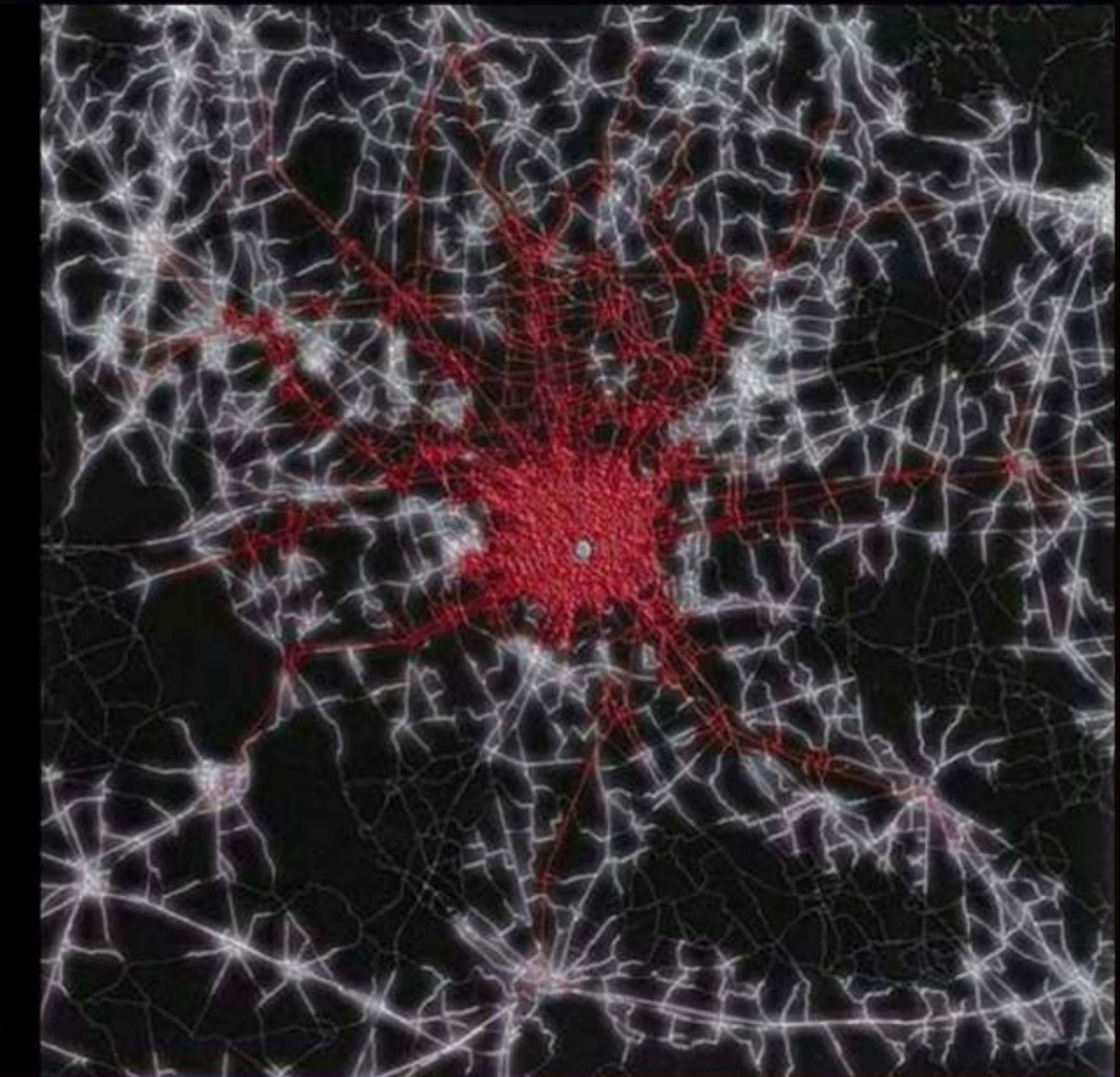
MILAN 45 MIN.

Population: 1.310.320 (2010)



MILAN 90 MIN.

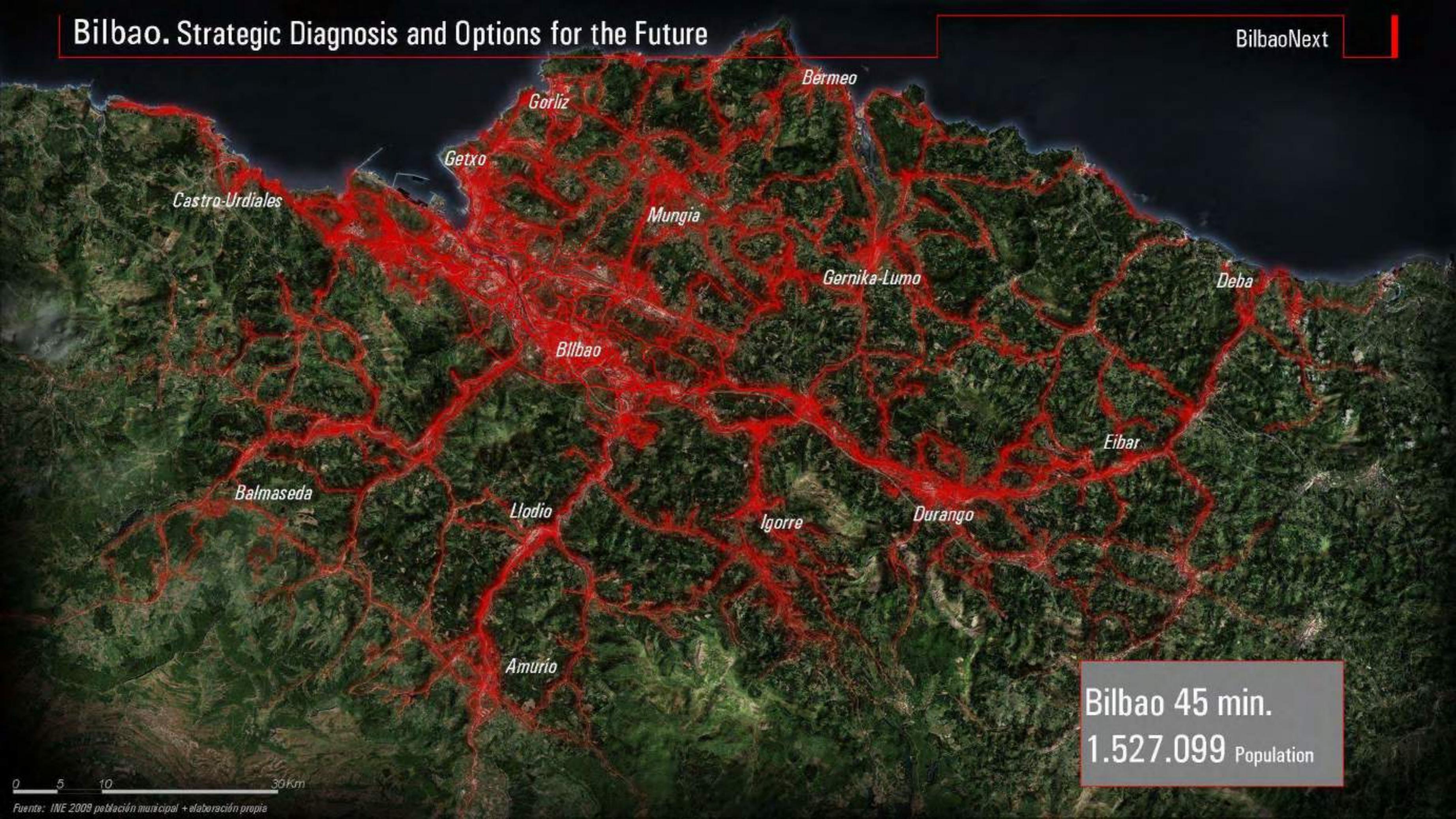
Population: 7.400.000

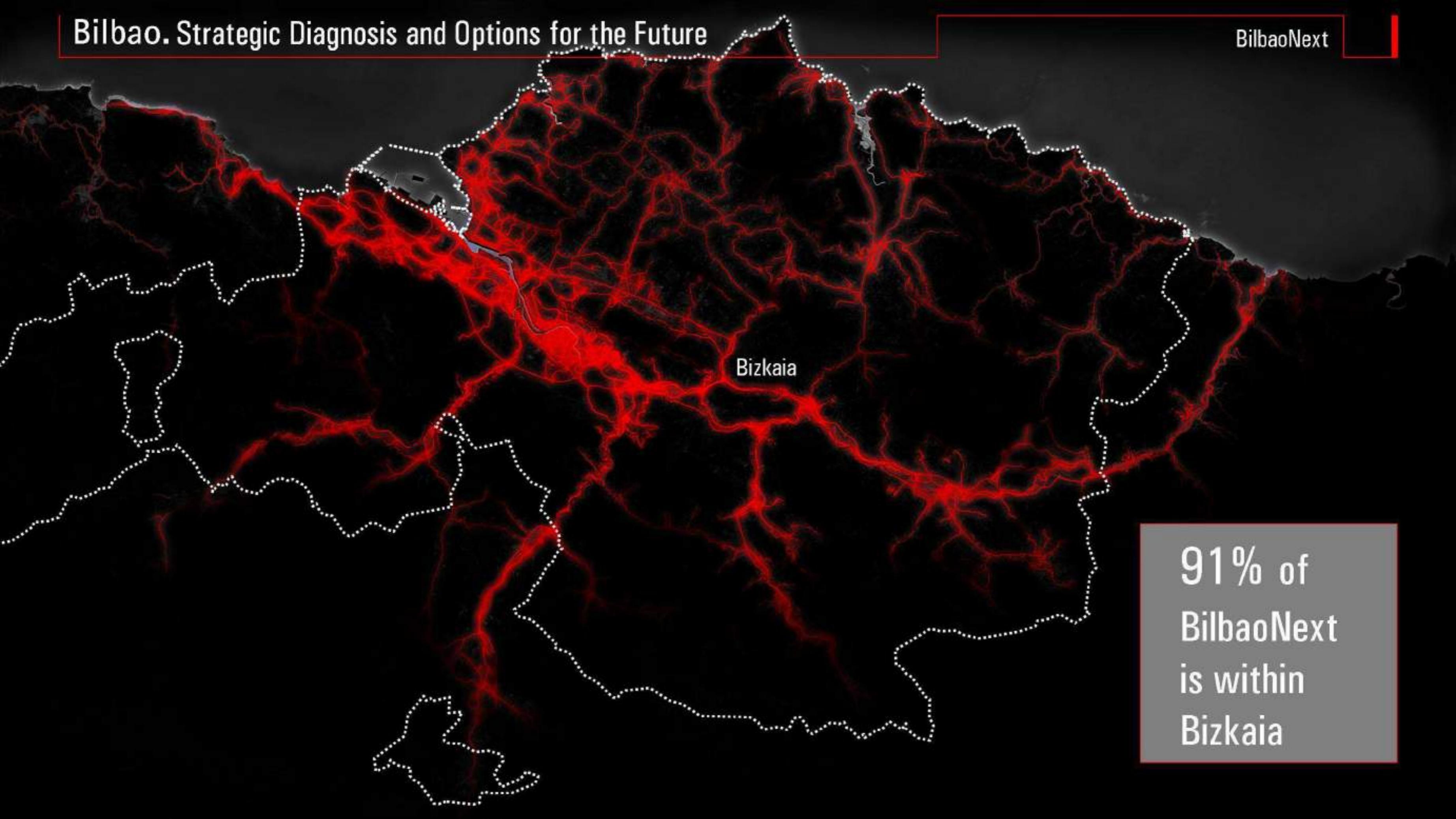


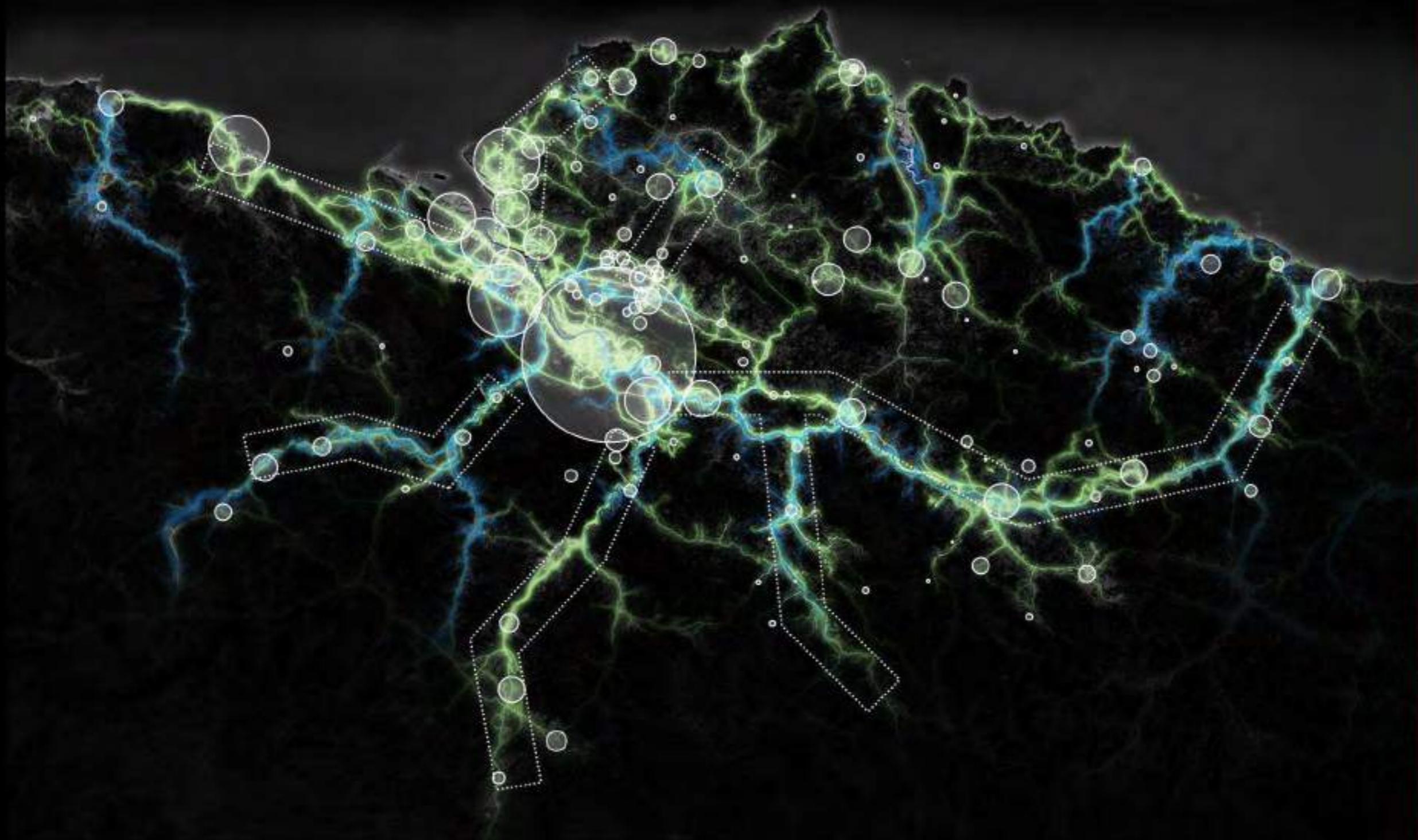
FUENTE: Fabio Casiroli, "Khrónopolis, Accessible City, Feasible City" pp 26.

# Bilbao. Strategic Diagnosis and Options for the Future

BilbaoNext



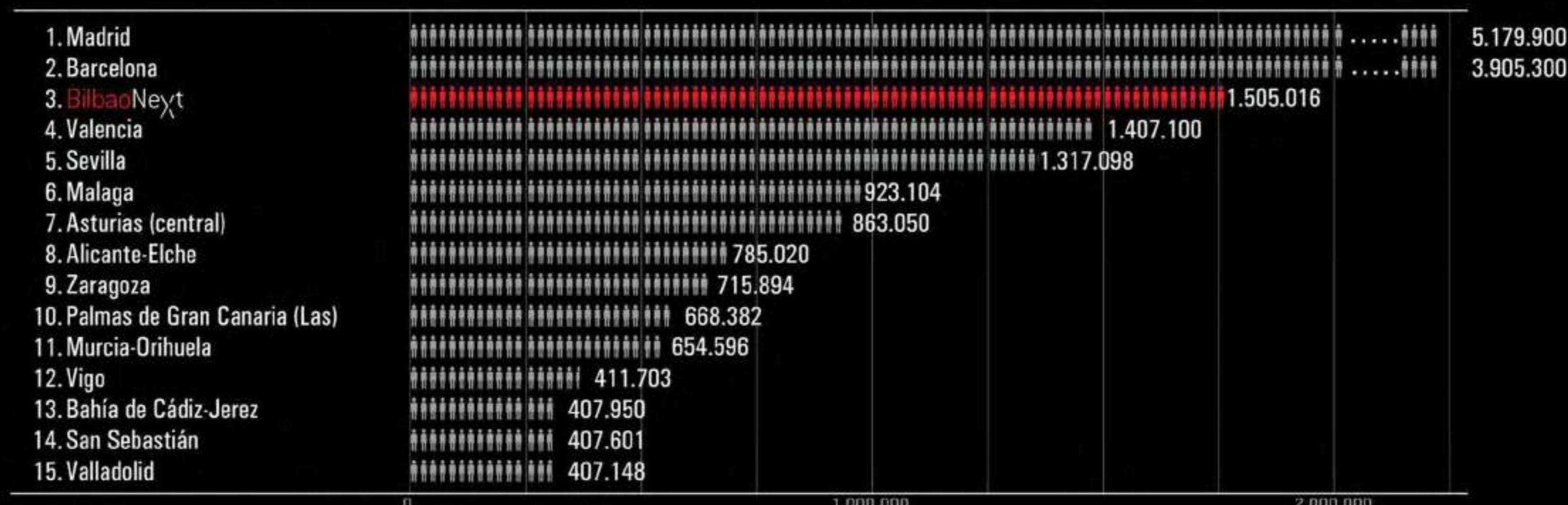




## *Transformation Axis*

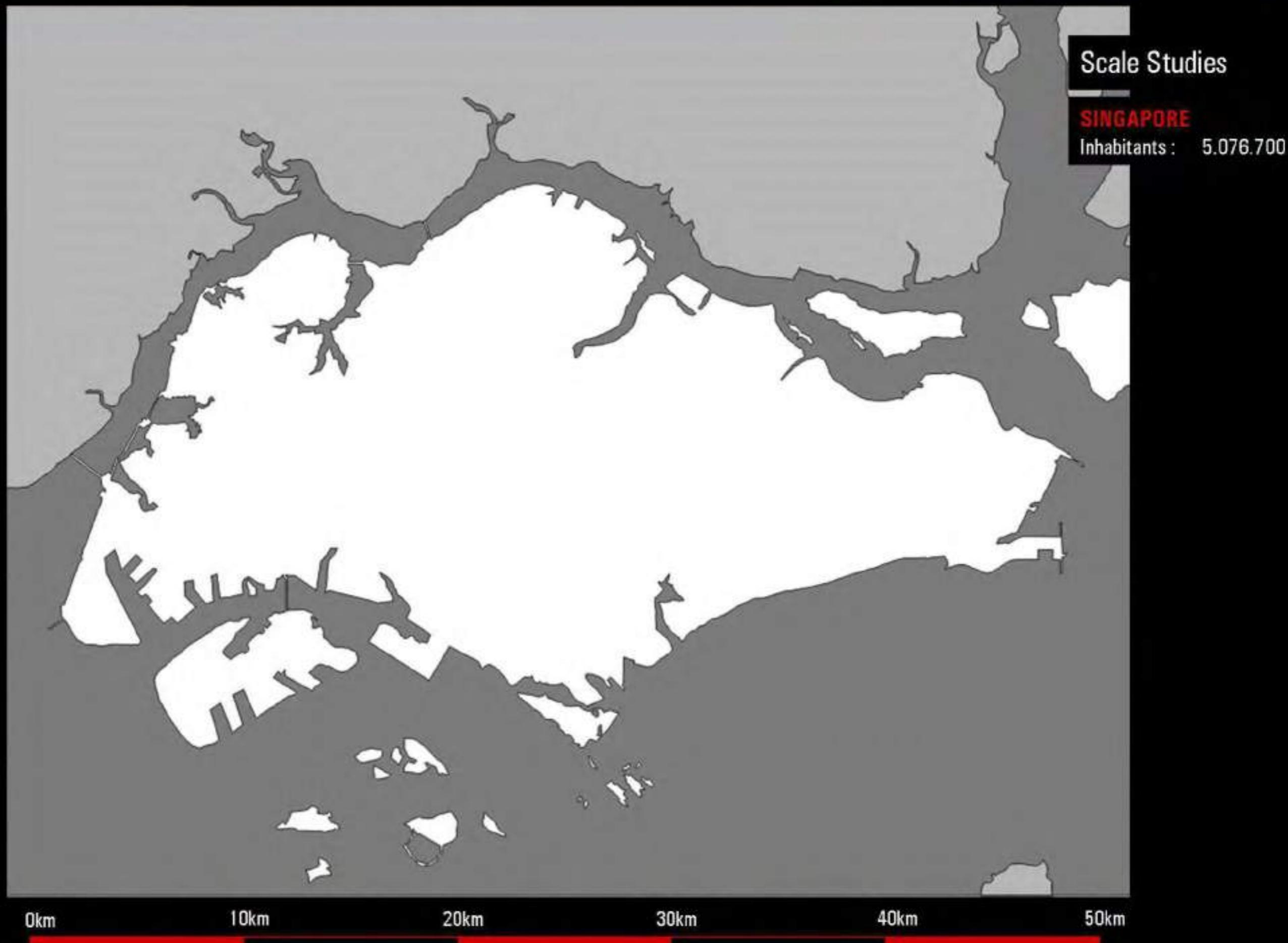
- 01** Valleys
- 02** Green Axis
- 03** Eco-boulevards
- 04** Urban Density and Intensity
- 05** Mixed Uses
- 06** Collective Transportation Systems
- 07** Pedestrian and Bicycles Routes
- 08** Innovation and Creativity Axis
- 09** Urban Articulation Axis
- 10** Sustainable Urban Development

## Spanish Metropolitan Areas (inhabitants)

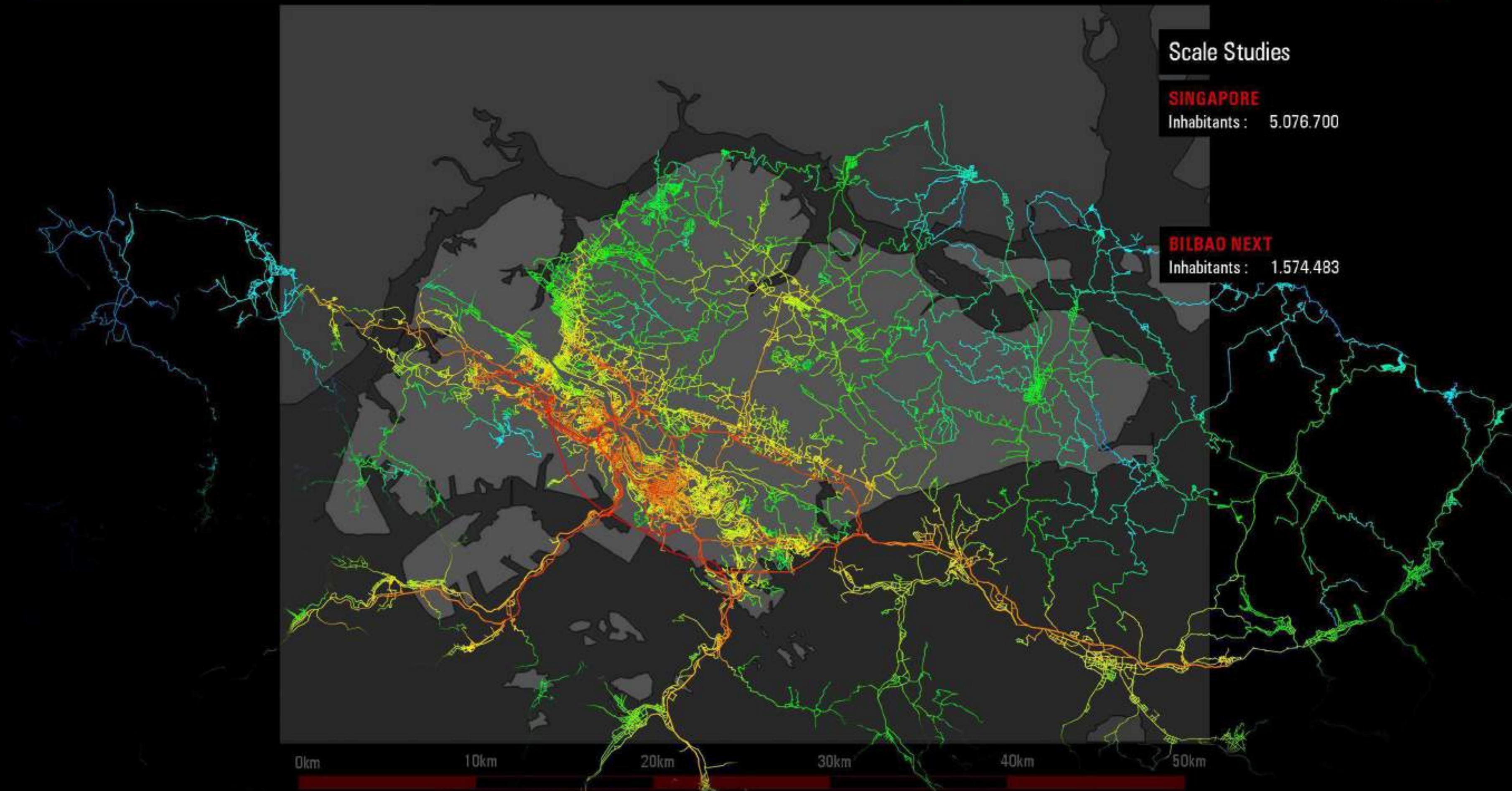


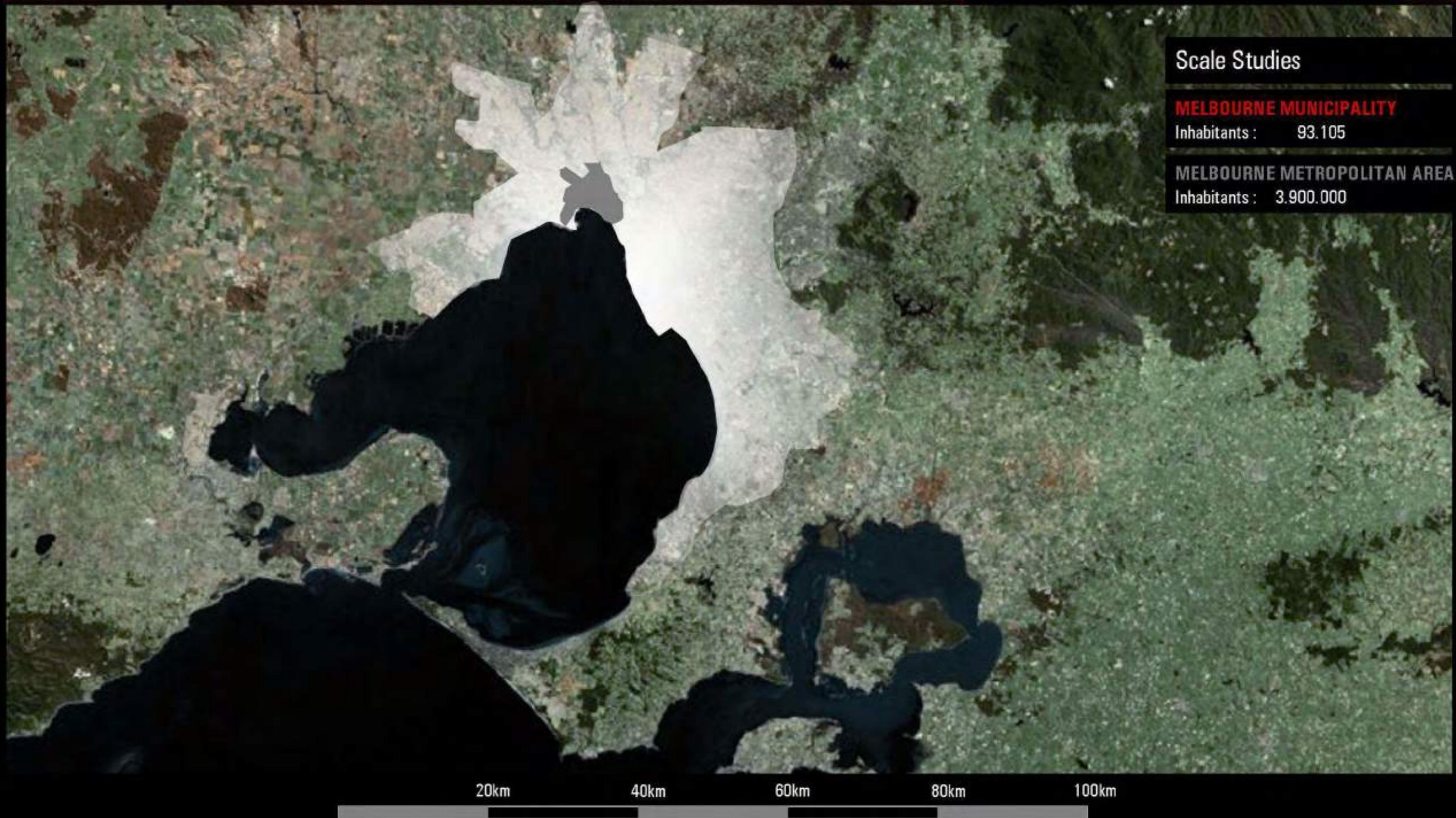
Fuente: elaboración propia con datos del INE 2009 y el proyecto AUDES5

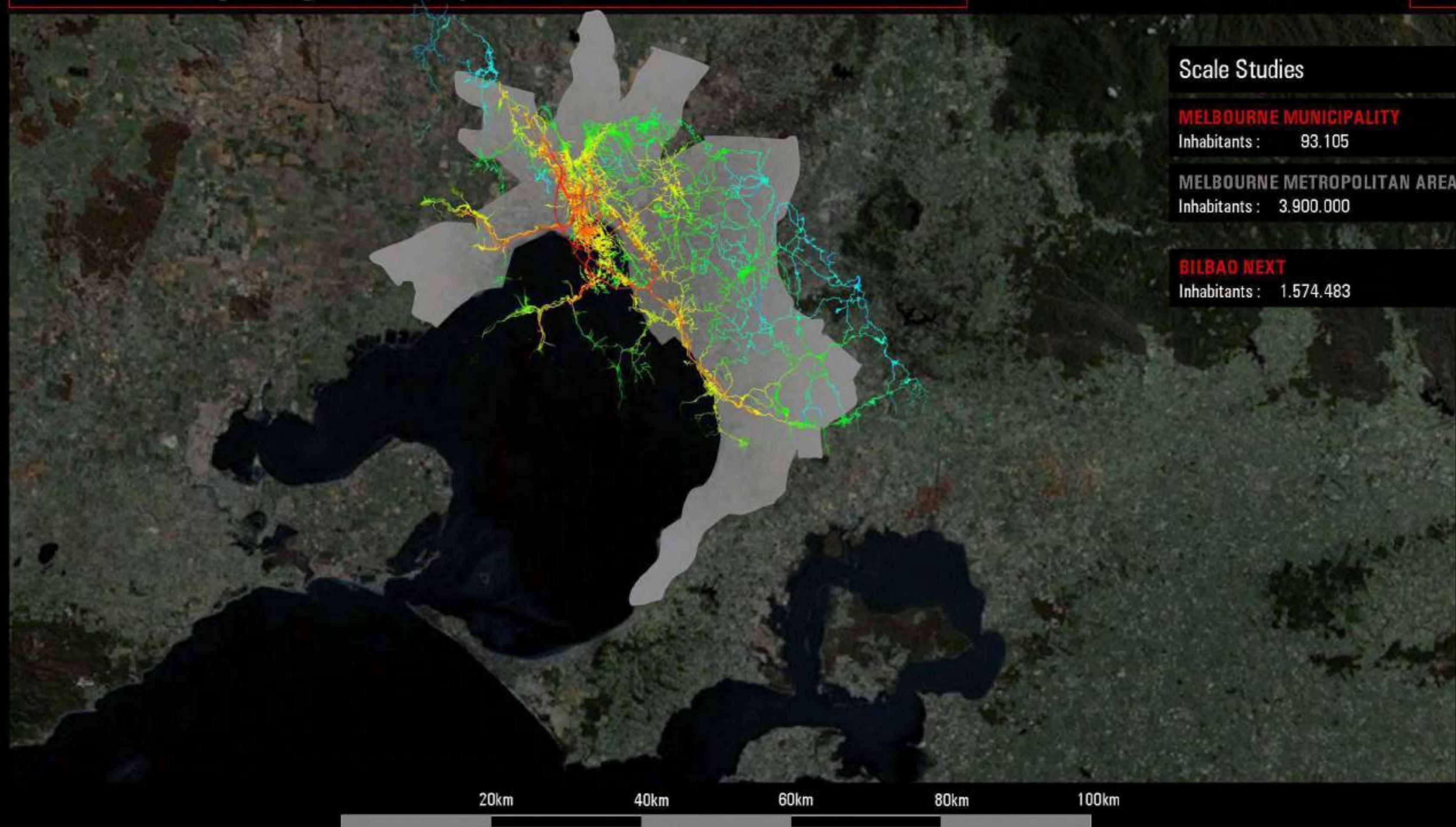
# Bilbao. Strategic Diagnosis and Options for the Future

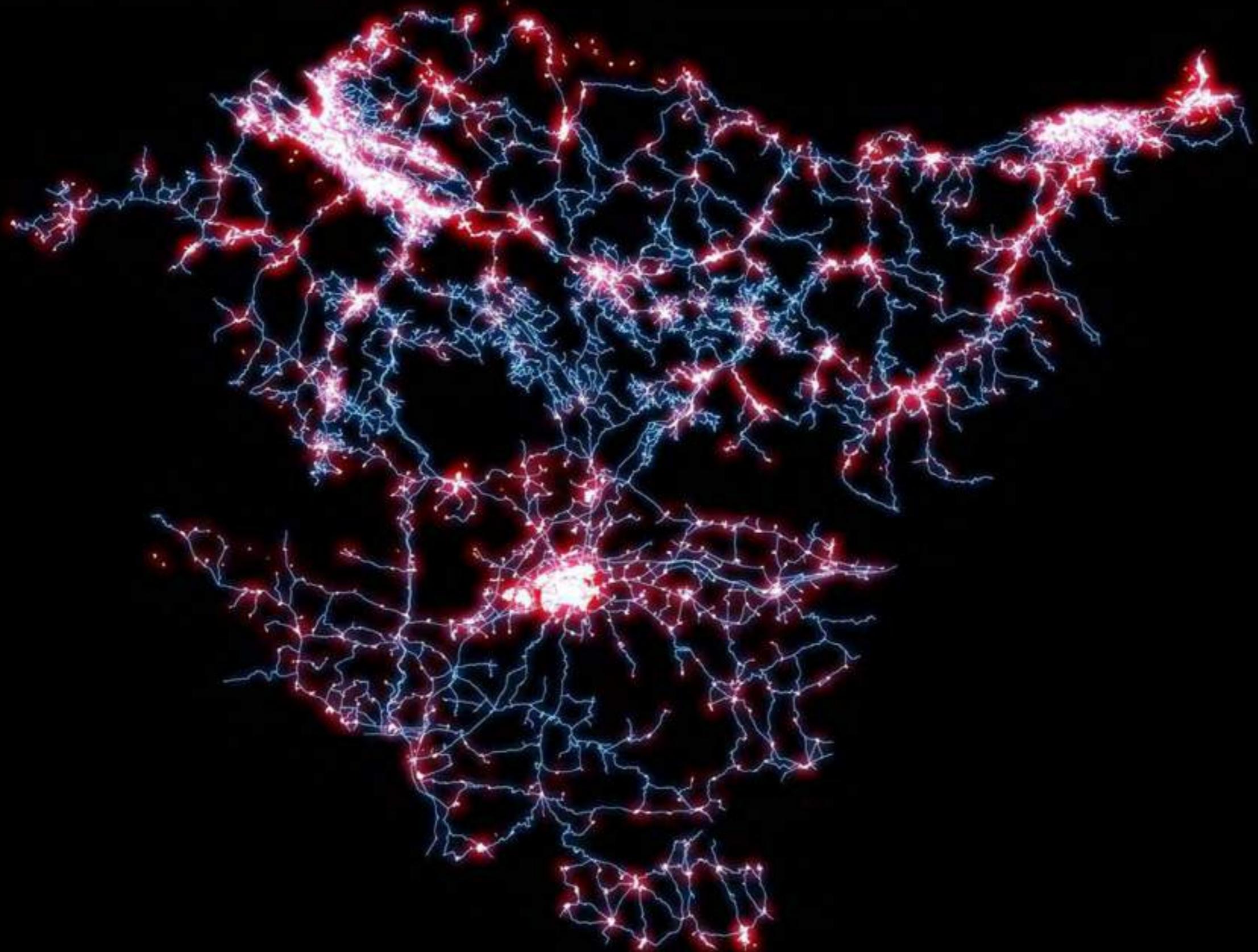


# Bilbao. Strategic Diagnosis and Options for the Future









Interconnecting the Basque Capital Cities

Travel time between the cities

Tiempos de viaje en autobús



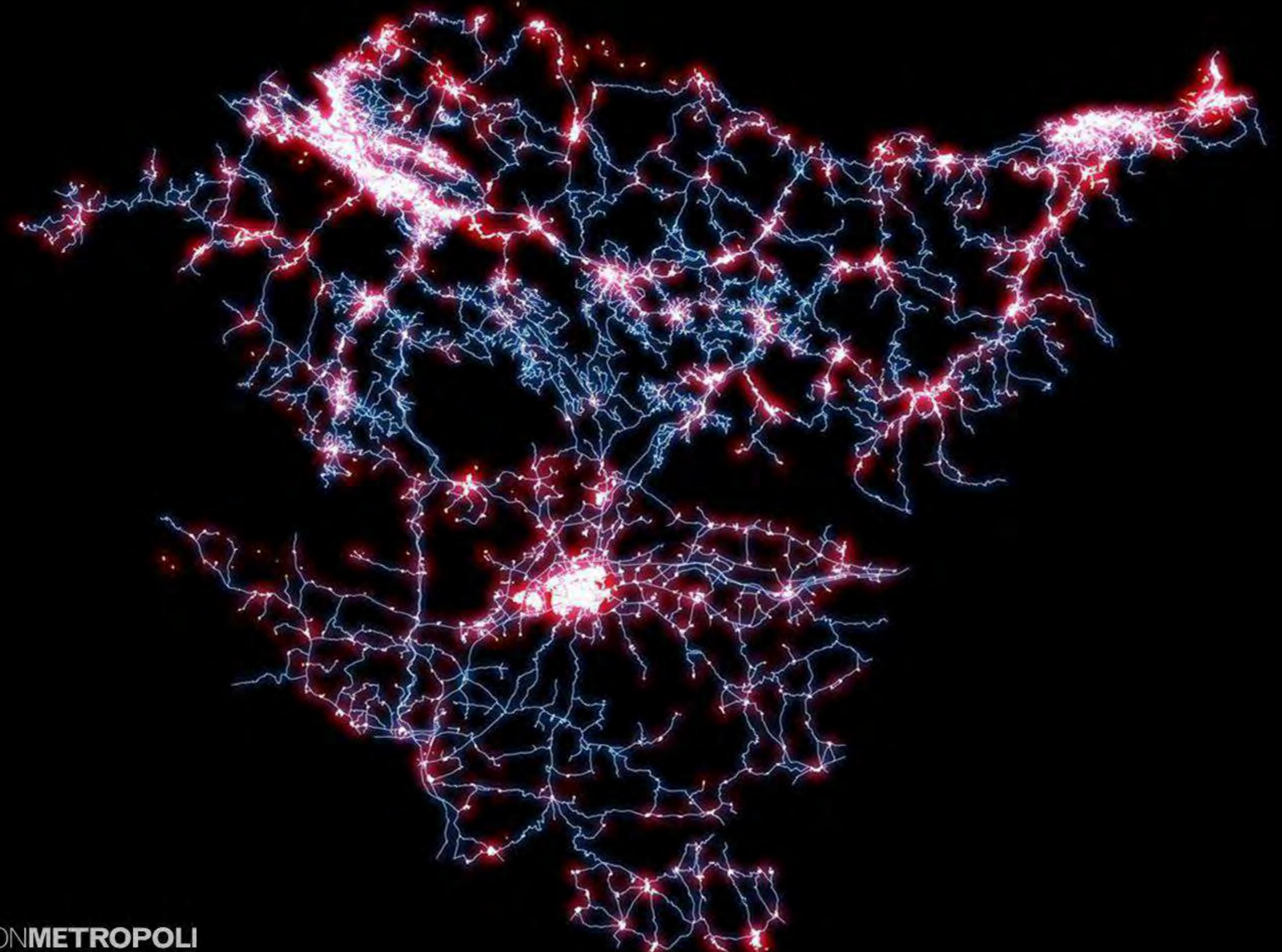
Tiempos de viaje en TAV



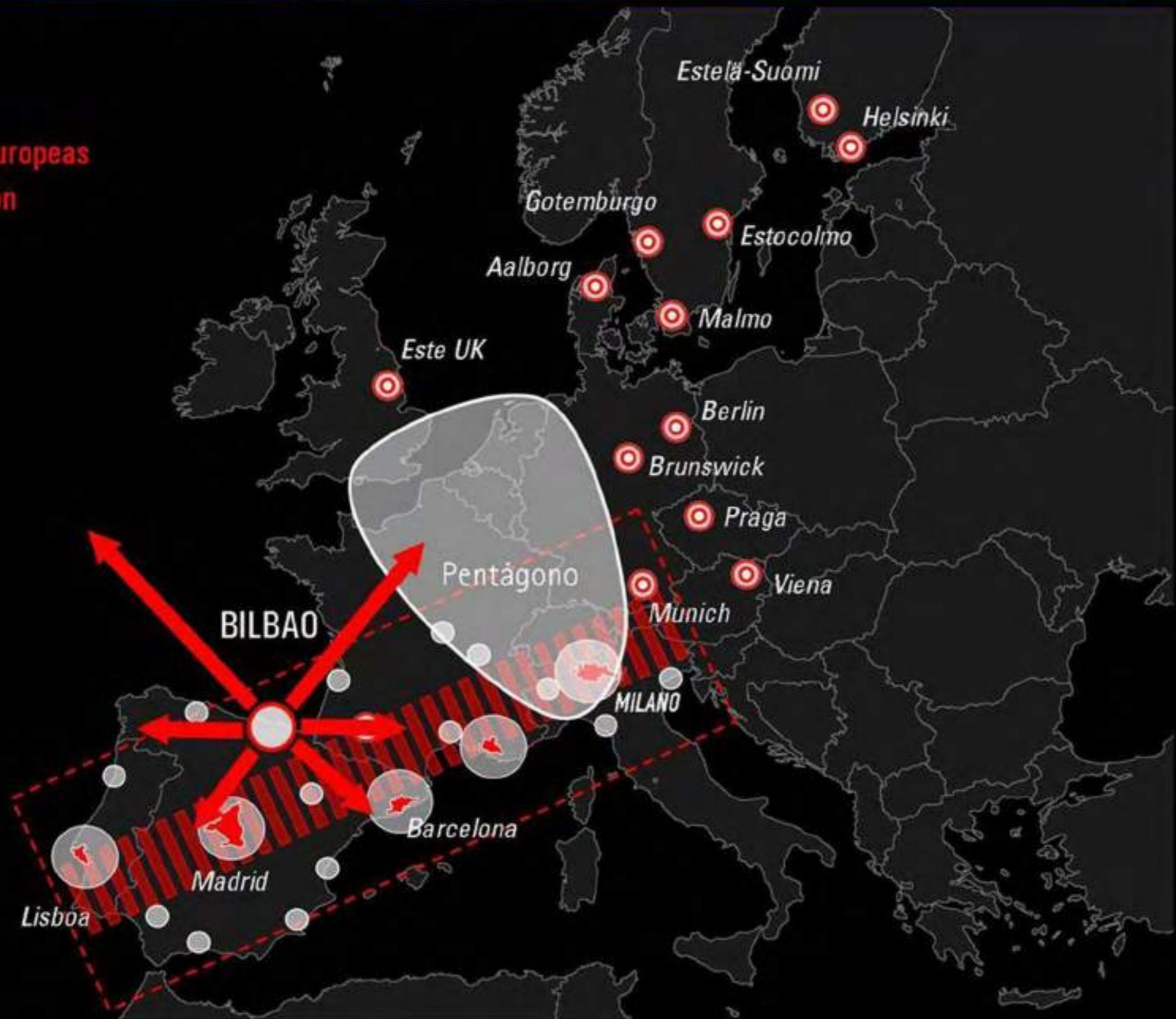


Global Vocation and Regional Insertion

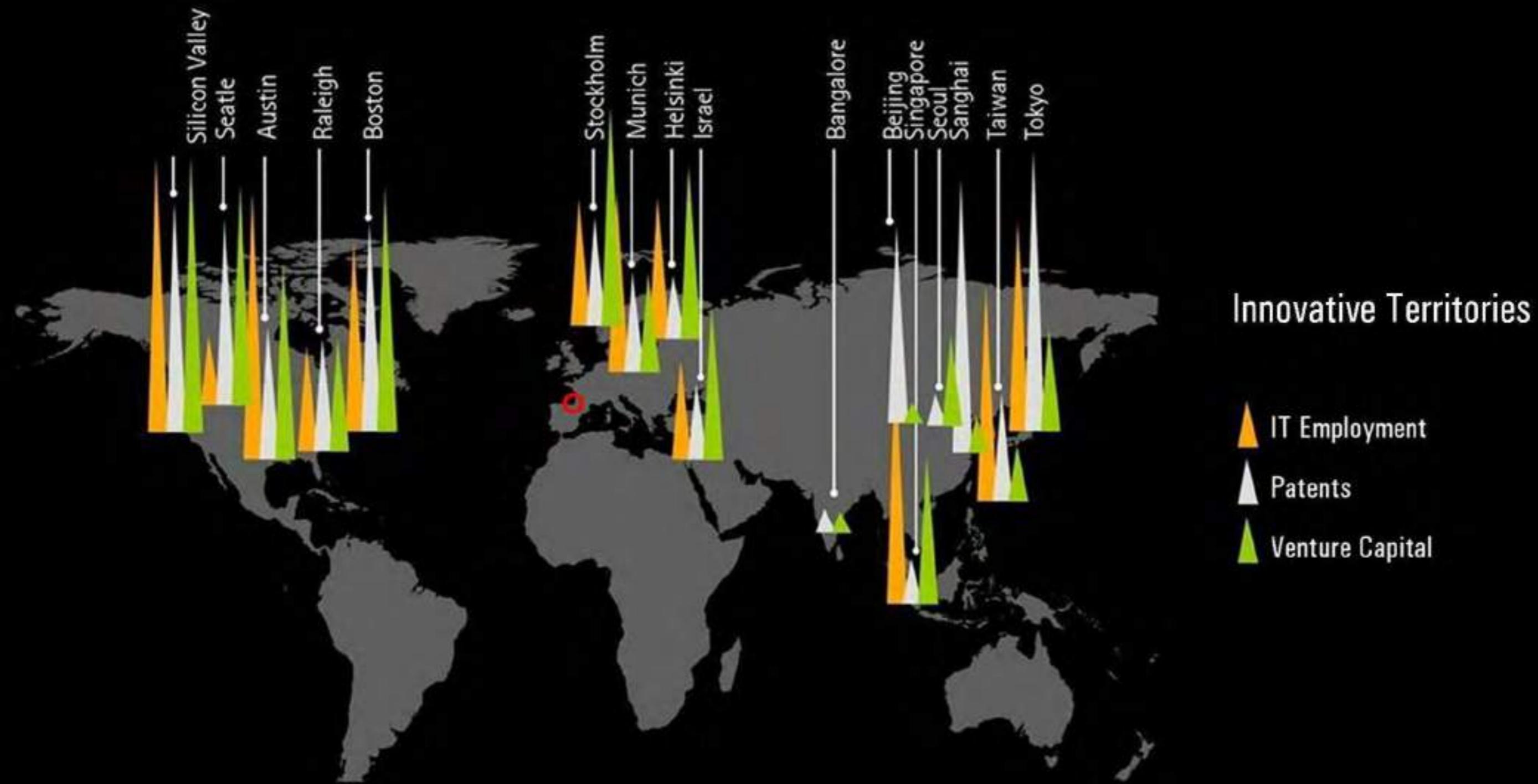




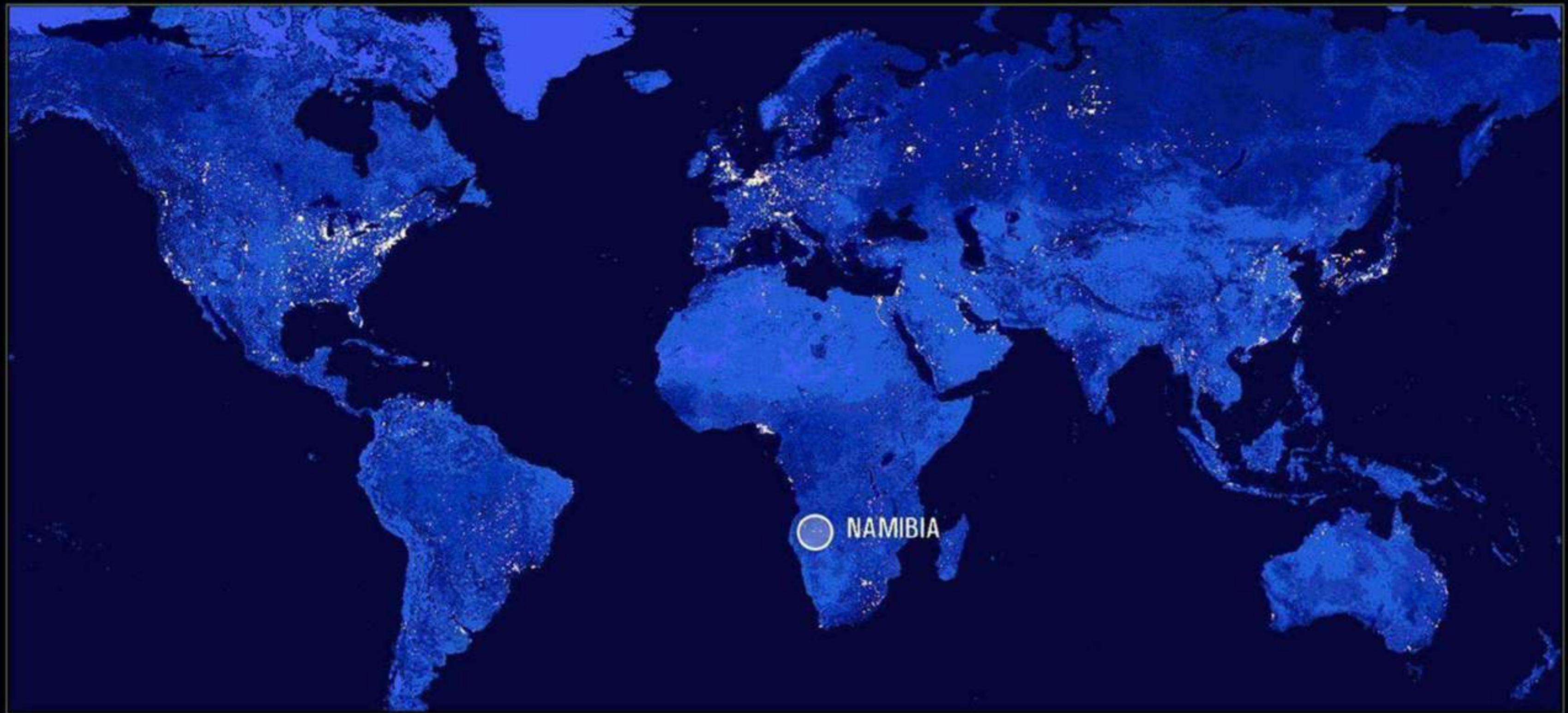
Regiones Europeas  
Nueva Visión

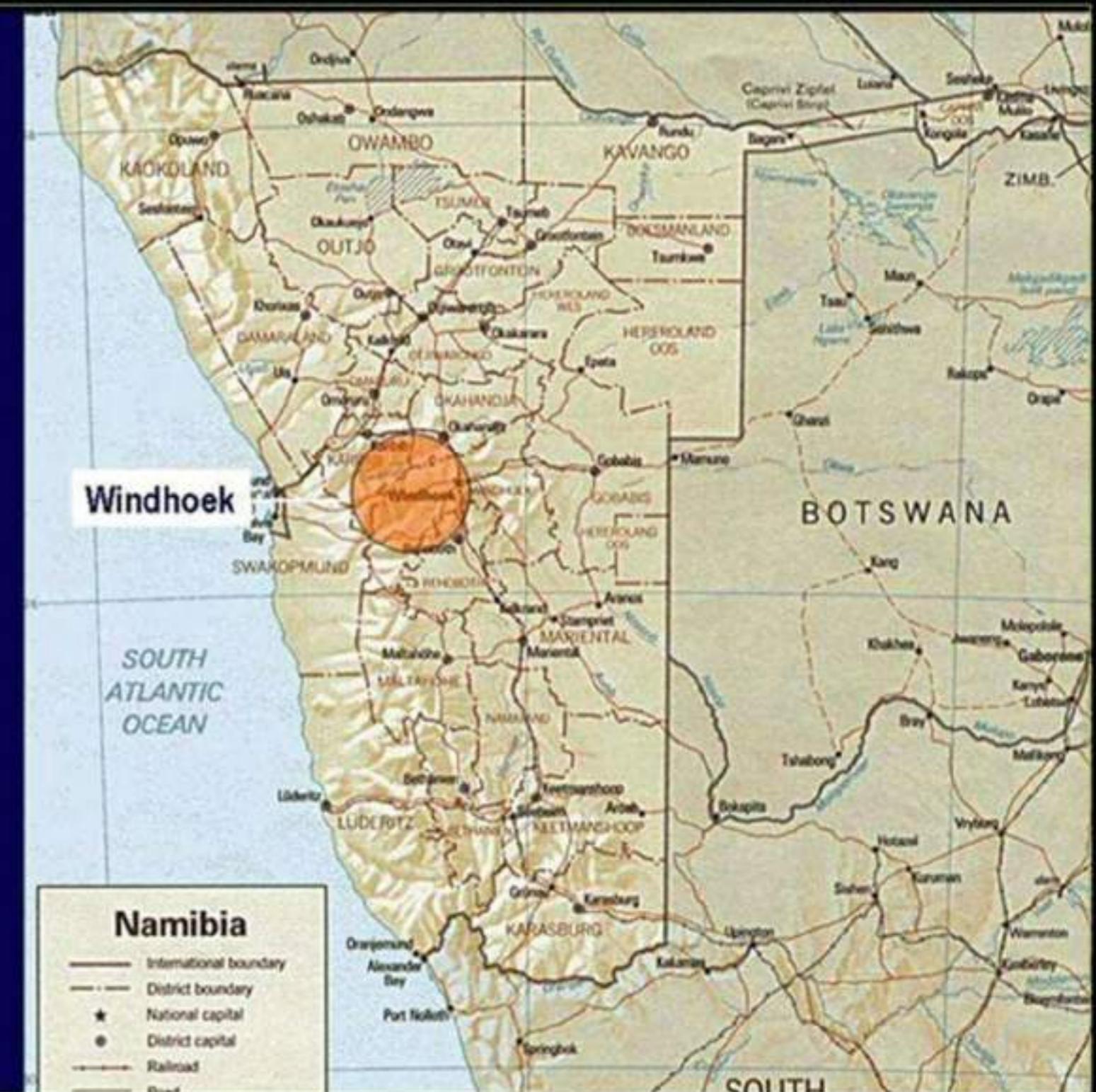


Oportunidades de articulación regional  
Protagonismo Europeo



## Cities as Ecosystems of Innovation

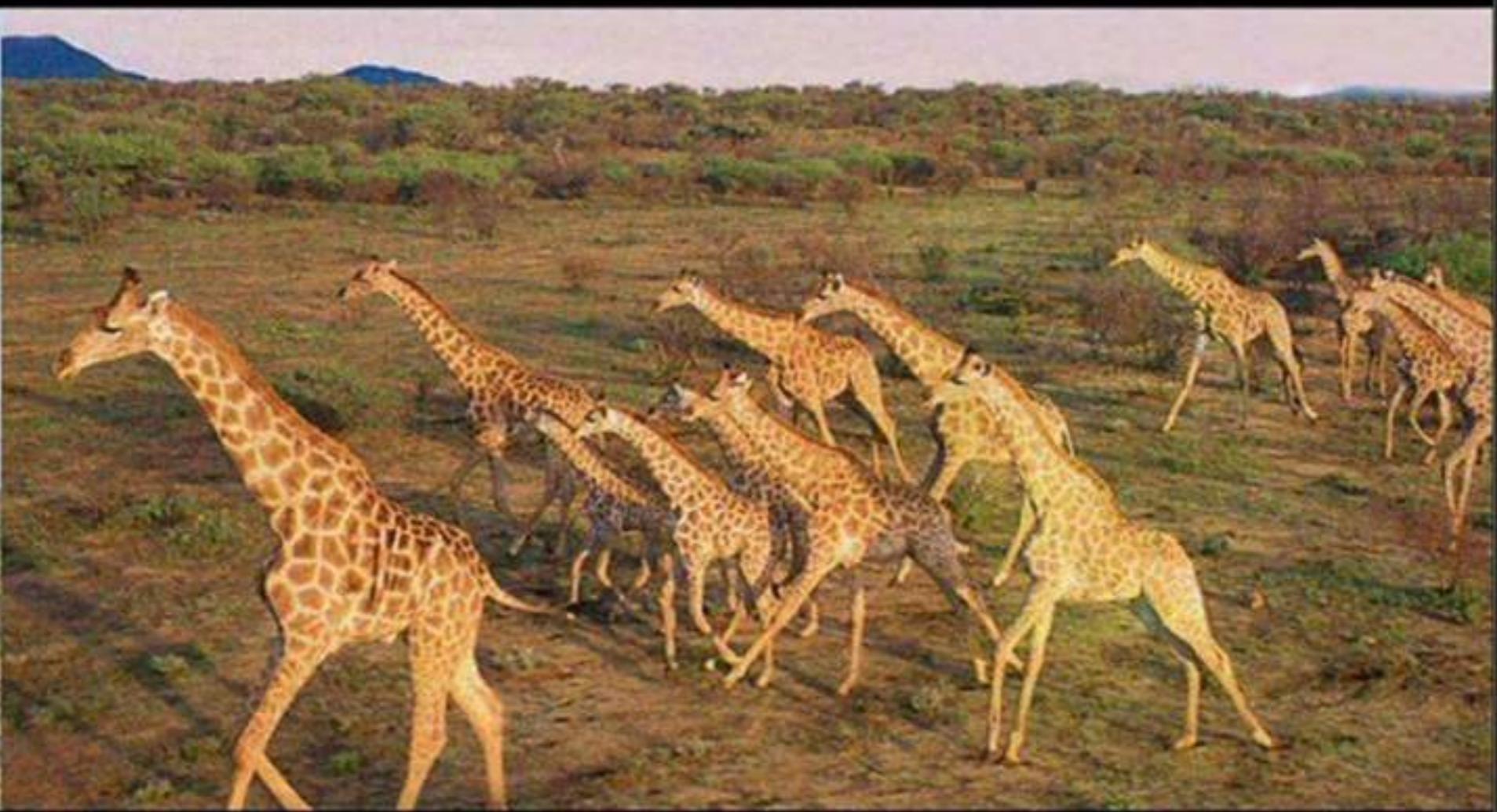




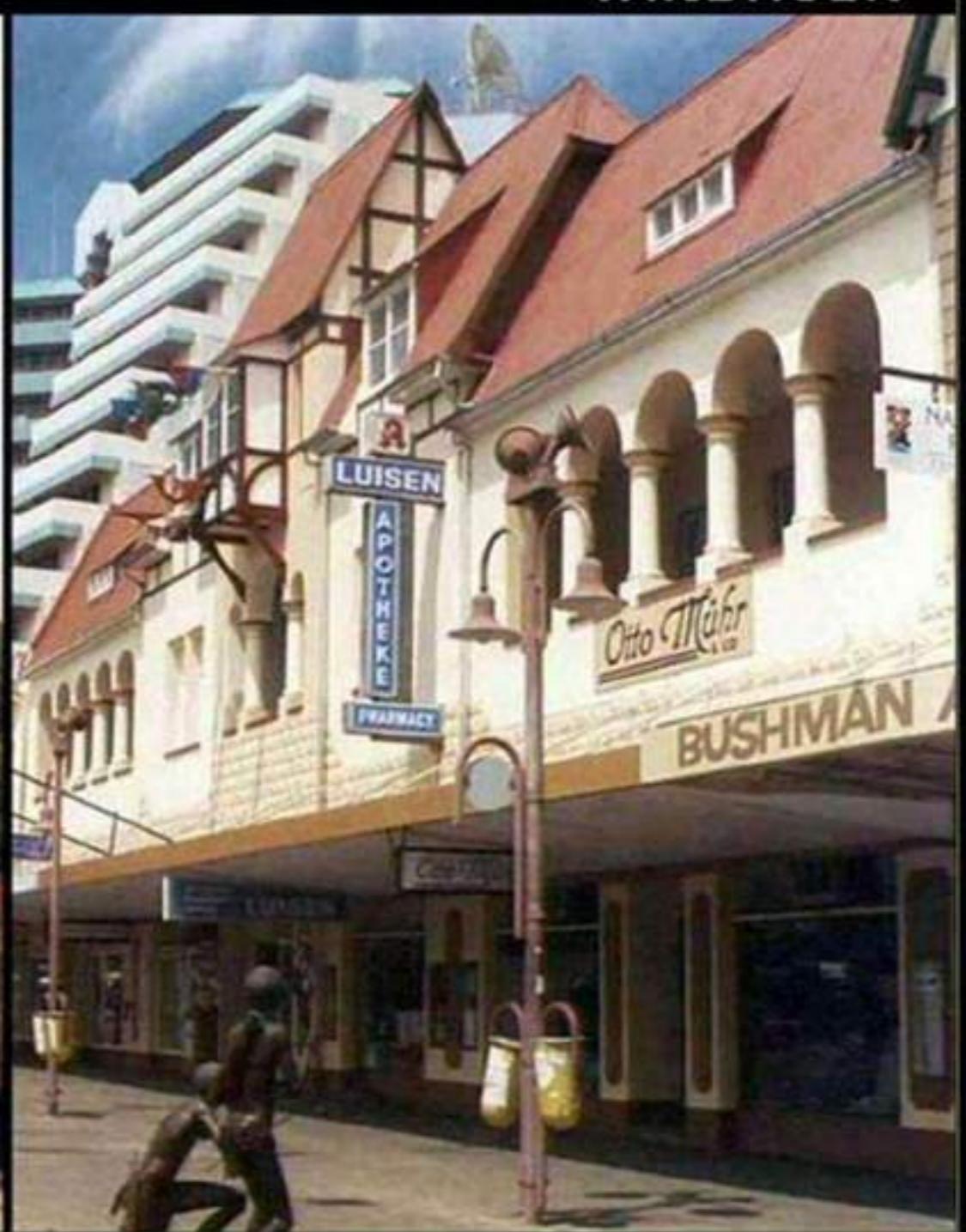
## NAMIBIA



## NAMIBIA



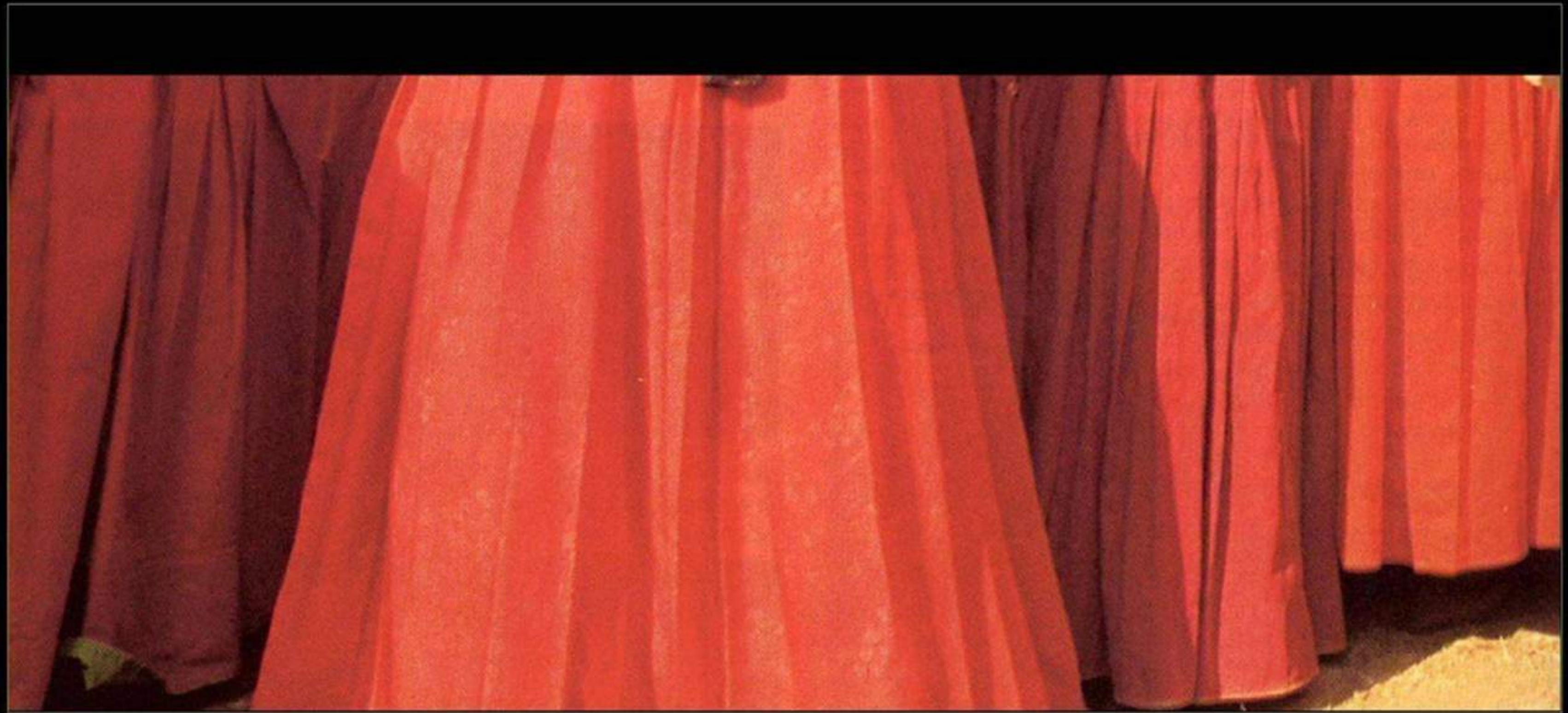
WINDHOEK



## KATUTURA TOWNSHIP







# THE COLOURS OF KATUTURA





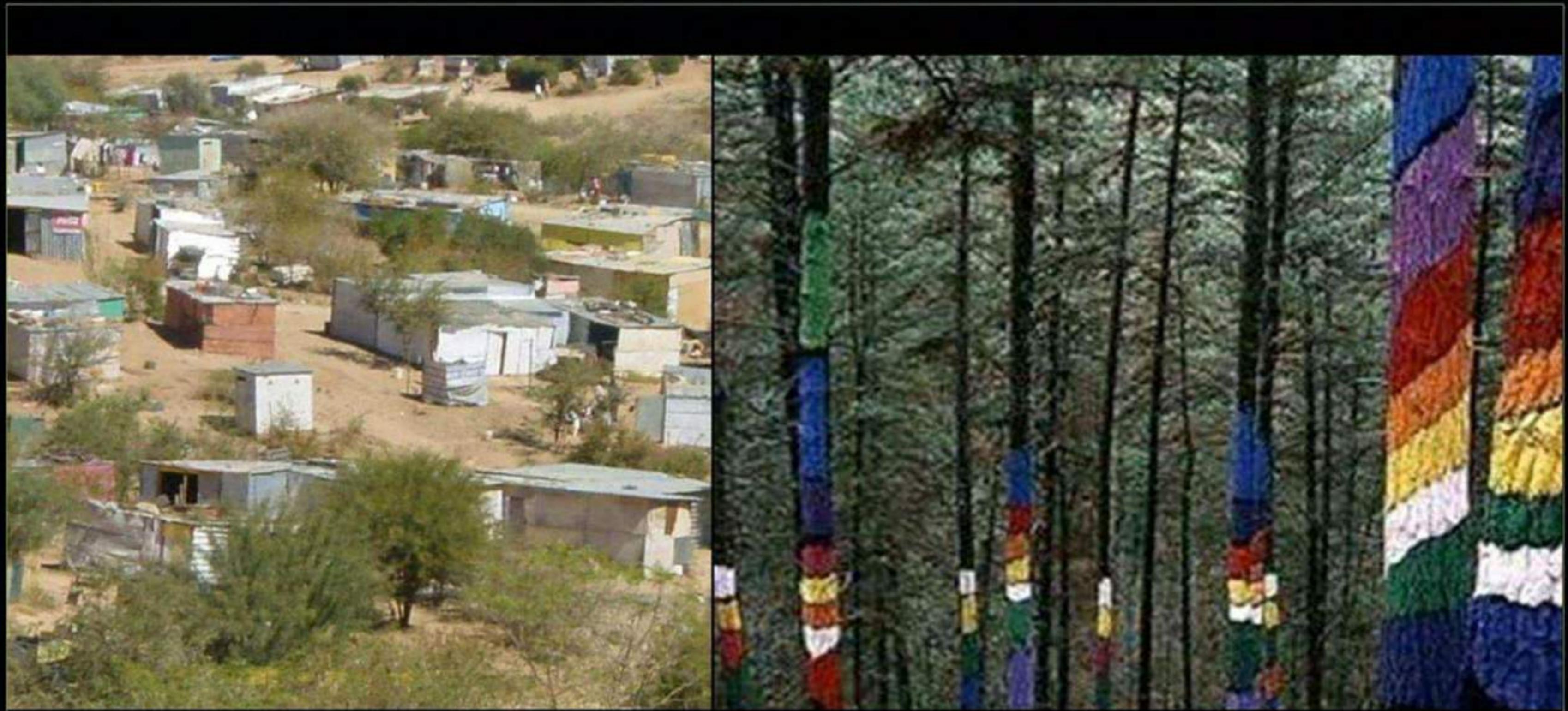
INTERNATIONAL ARTISTS





KATUTURA  
PROJECT



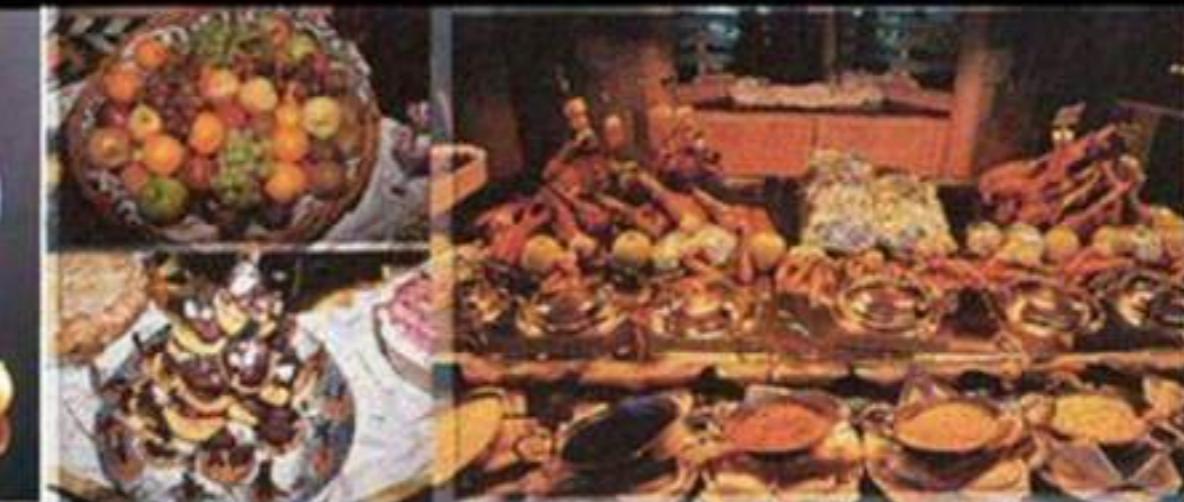




LAND AND TOURIST DESTINATION



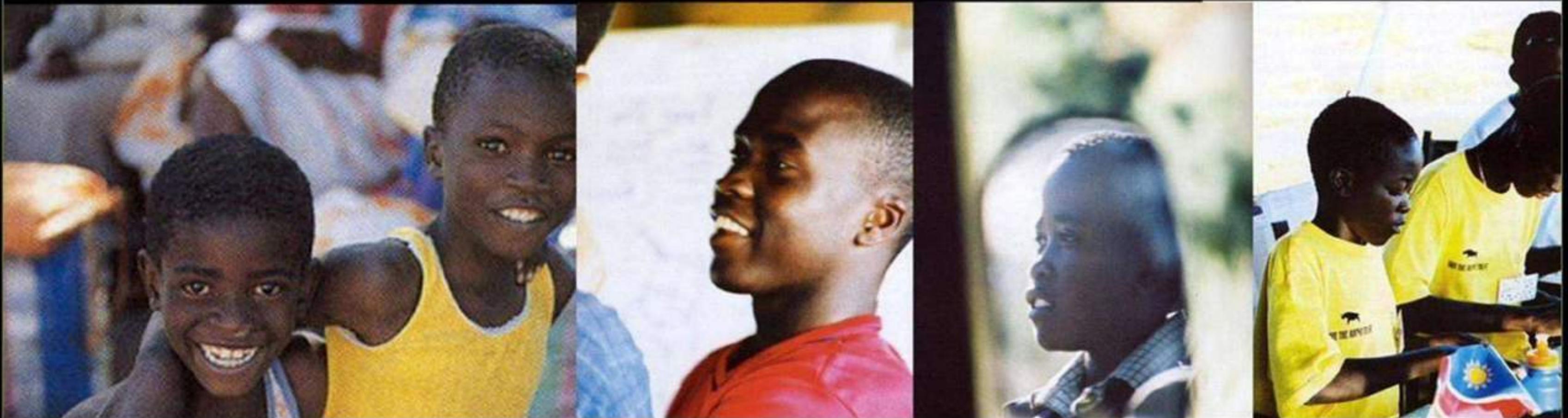
## TRADITIONS



## ARTS AND CRAFTS



PEOPLE



# THE COLOURS OF KATUTURA



TERRITORIOS INTELIGENTES

URBAN COMPONENTS OF EXCELLENCE

“CLUSTERS OF EXCELLENCE” URBAN PROFILE

STRATEGIC PROJECTS

THE CITY AS ECOSYSTEM OF INNOVATION

TERRITORIOS INTELIGENTES

URBAN COMPONENTS OF EXCELLENCE

"CLUSTERS OF EXCELLENCE" URBAN PROFILE

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THE CITY AS ECOSYSTEM OF INNOVATION



# AGENCIAS ZERO

TERRITORIOS INTELIGENTES

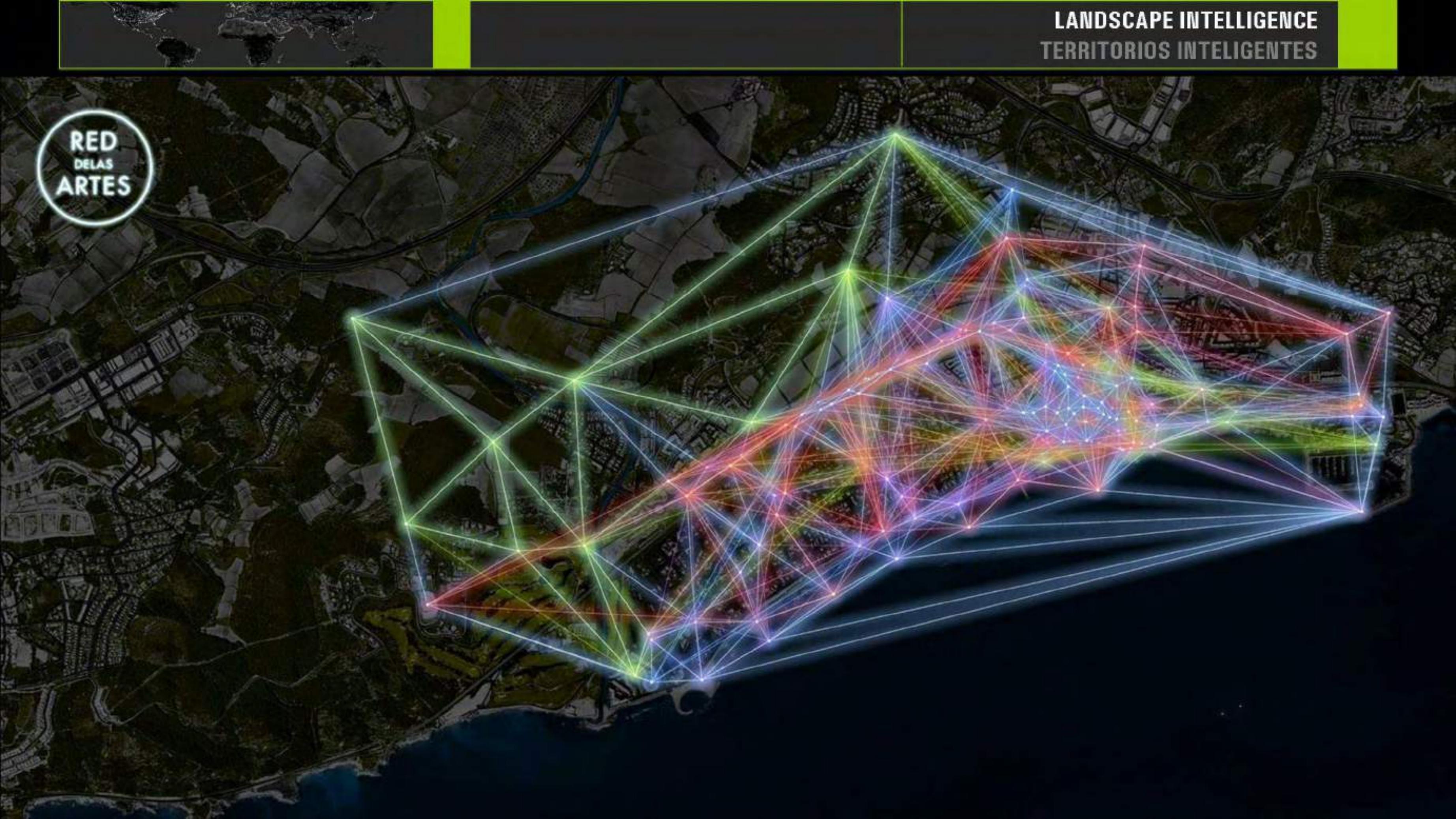
URBAN COMPONENTS OF EXCELLENCE

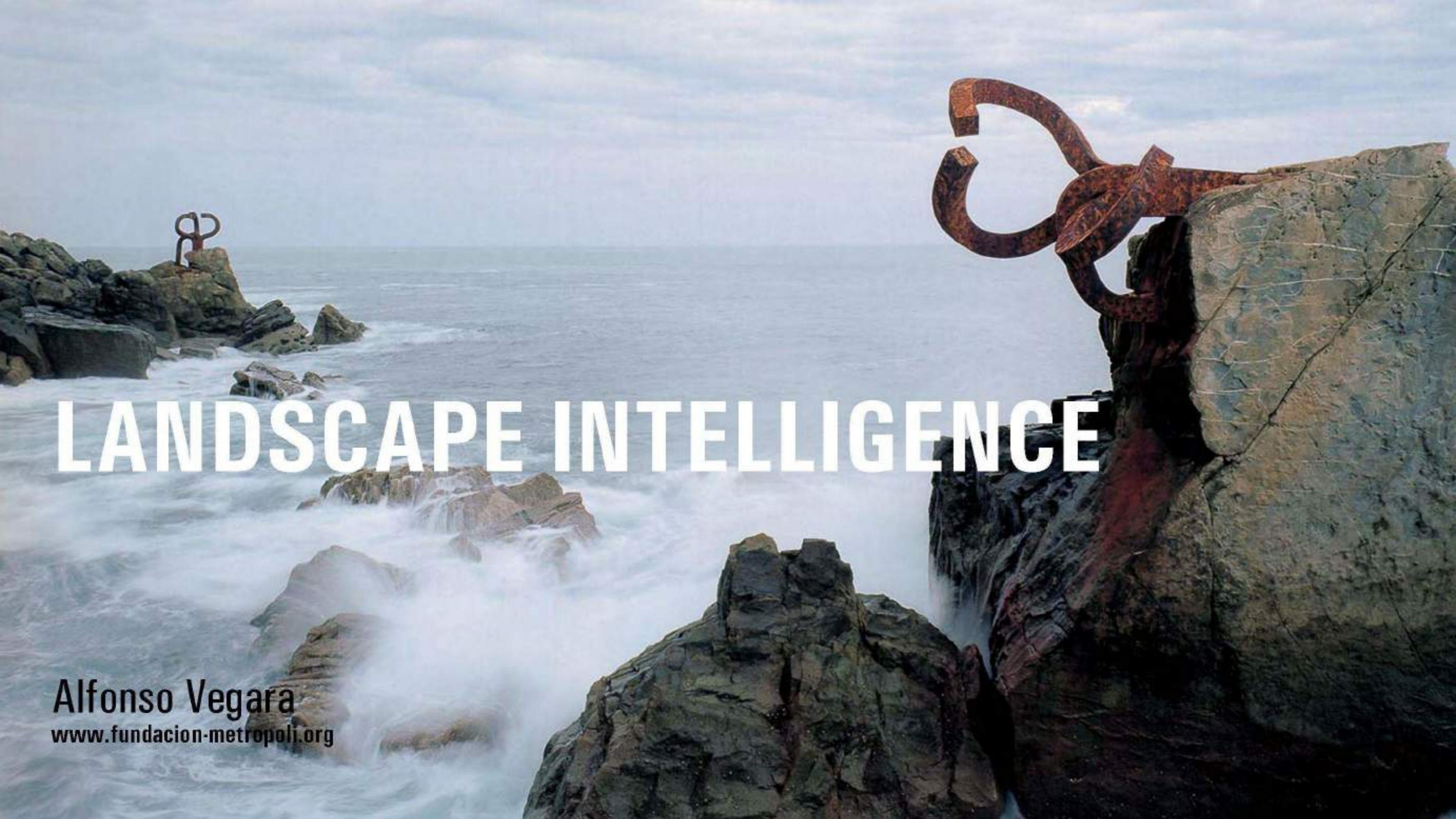
“CLUSTERS OF EXCELLENCE” URBAN PROFILE

STRATEGIC PROJECTS

THE CITY AS ECOSYSTEM OF INNOVATION

RED  
DELAS  
ARTES





# LANDSCAPE INTELLIGENCE

Alfonso Vegara  
[www.fundacion-metropoli.org](http://www.fundacion-metropoli.org)