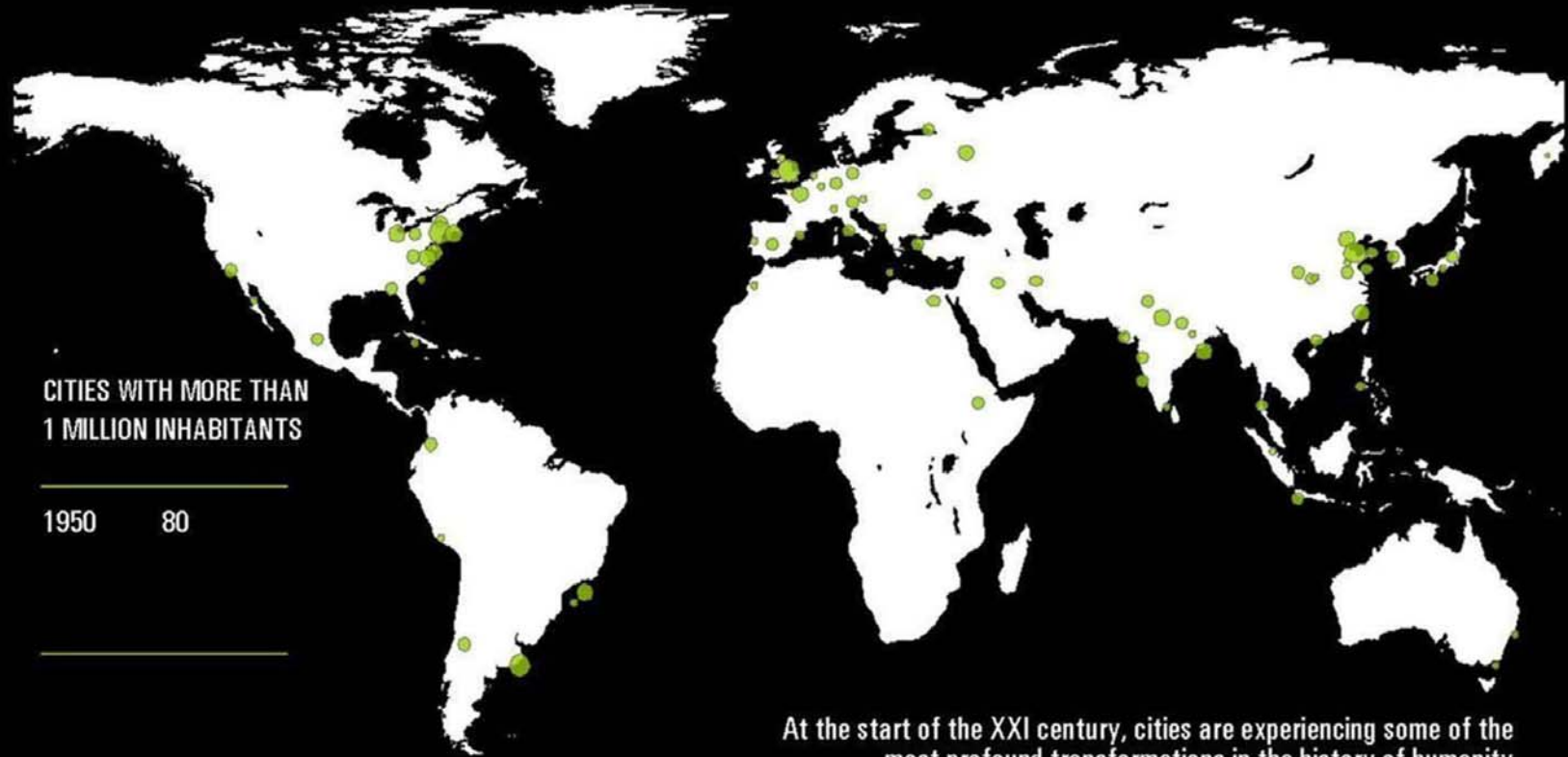


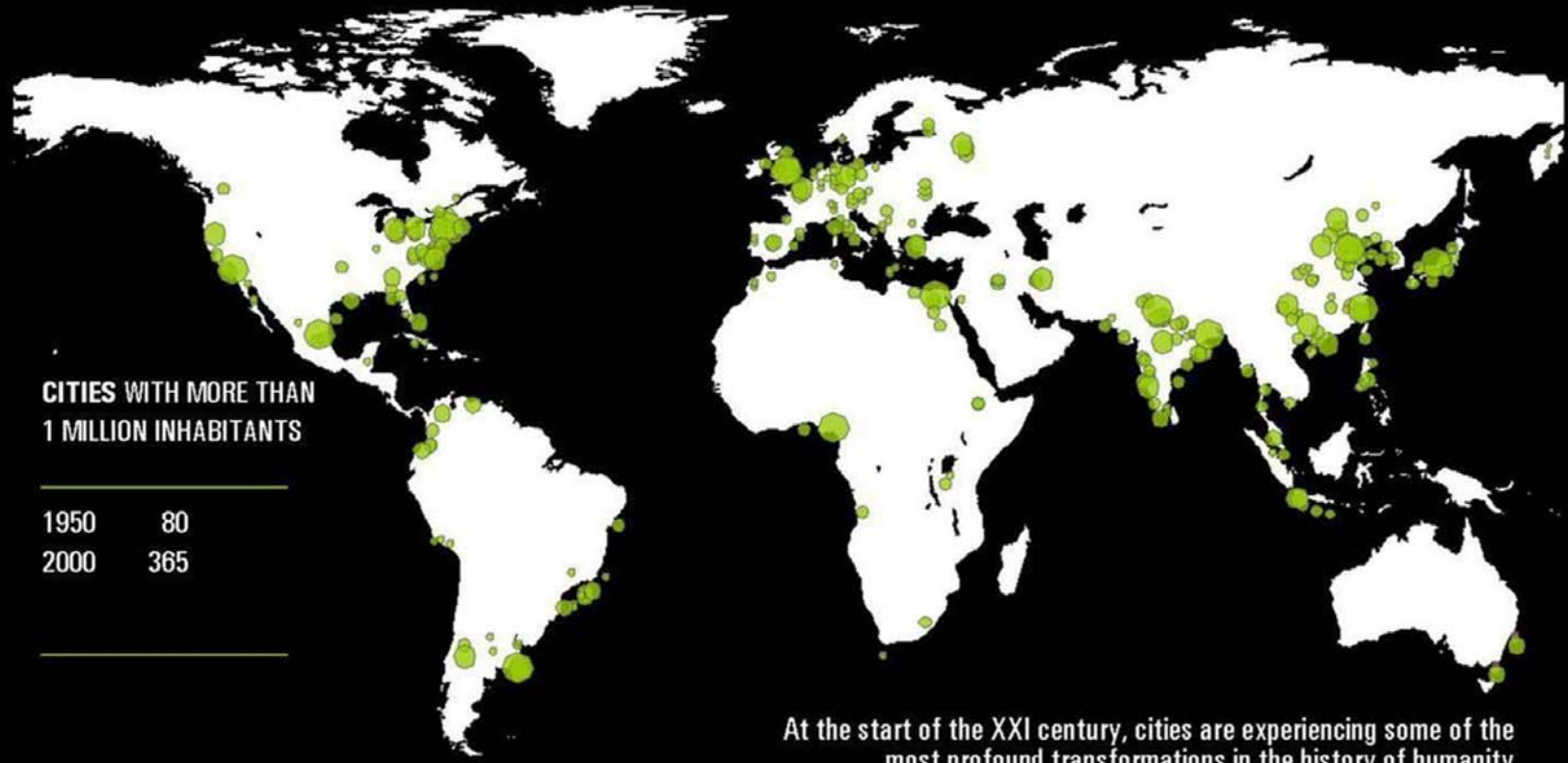


LANDSCAPE INTELLIGENCE

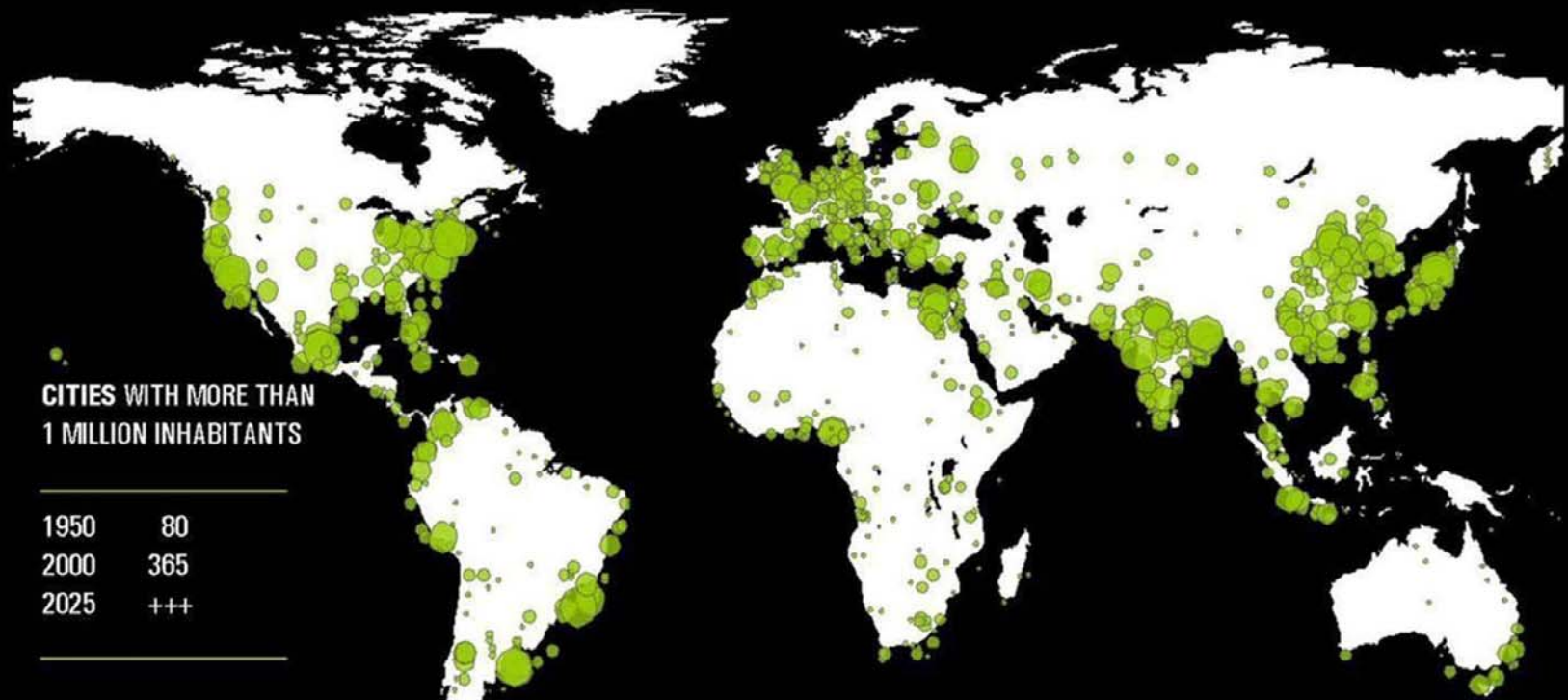
Alfonso Vegara
www.fundacion-metropoli.org



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



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



**CITIES WITH MORE THAN
1 MILLION INHABITANTS**

1950	80
2000	365
2025	+++

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

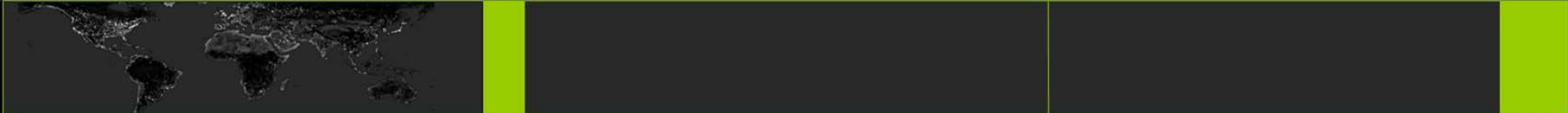
The greatest challenge of the 21st century is
Building a Sustainable Future





350 TRILLONES \$

En los próximos 30 años se invertirán en las ciudades de nuestro planeta 350 trillones de dólares (7 veces el PIB mundial 2010) en **Construcción, Gestión y Mantenimiento de infraestructura urbana.**



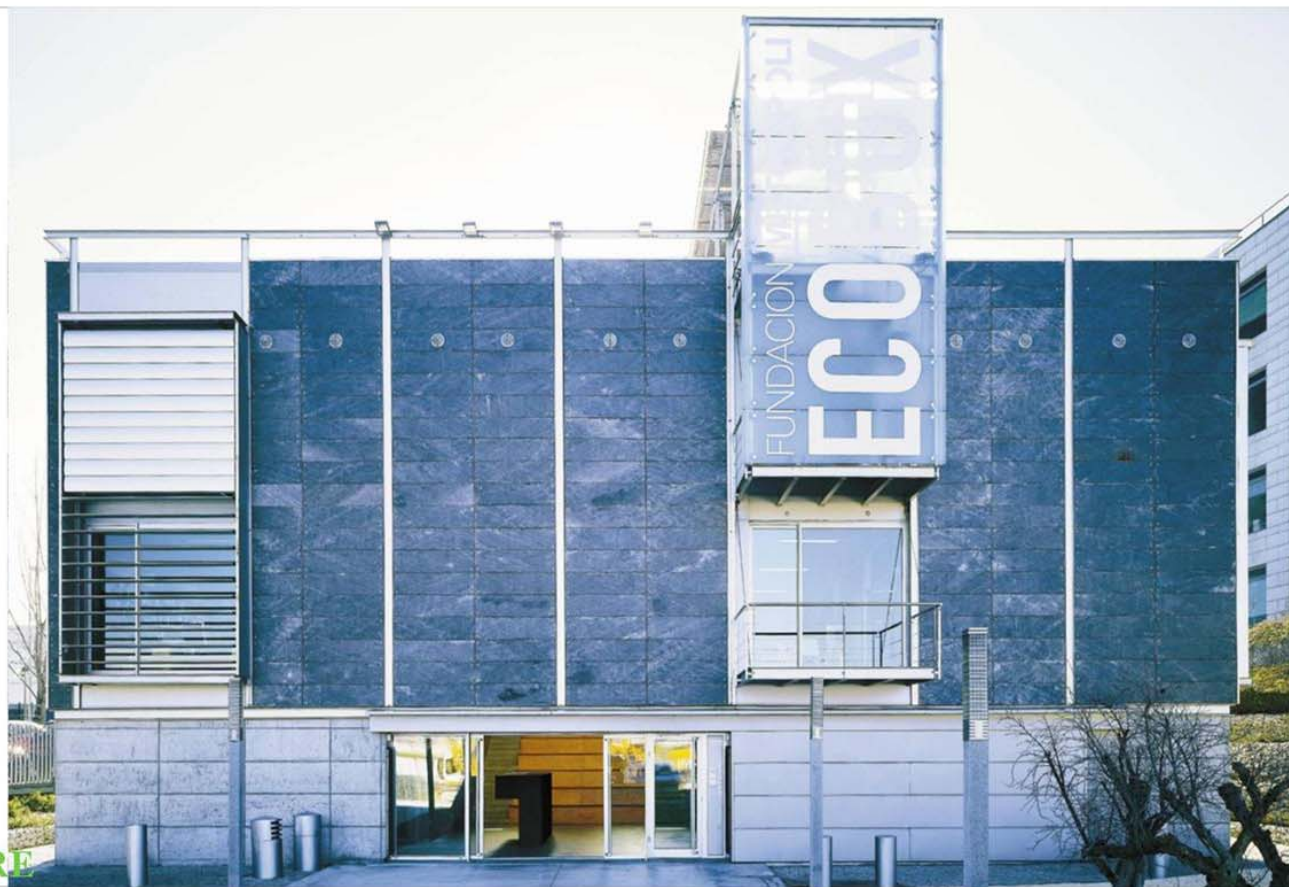
FUNDACION **METROPOLI**



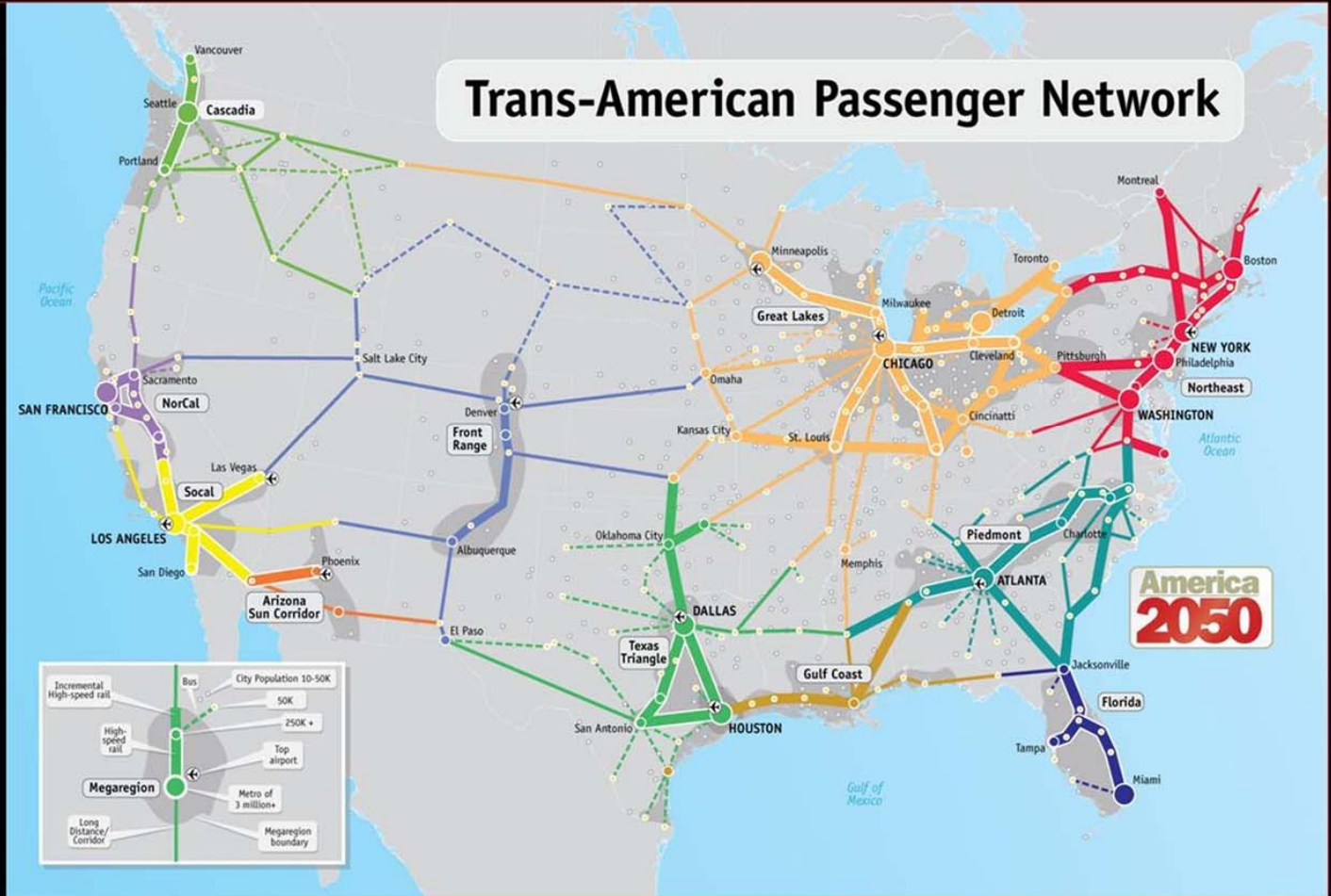
Fundación Metr poli is an
international centre of innovation
in cities and regions

ECOBX

BUILDING A SUSTAINABLE FUTURE



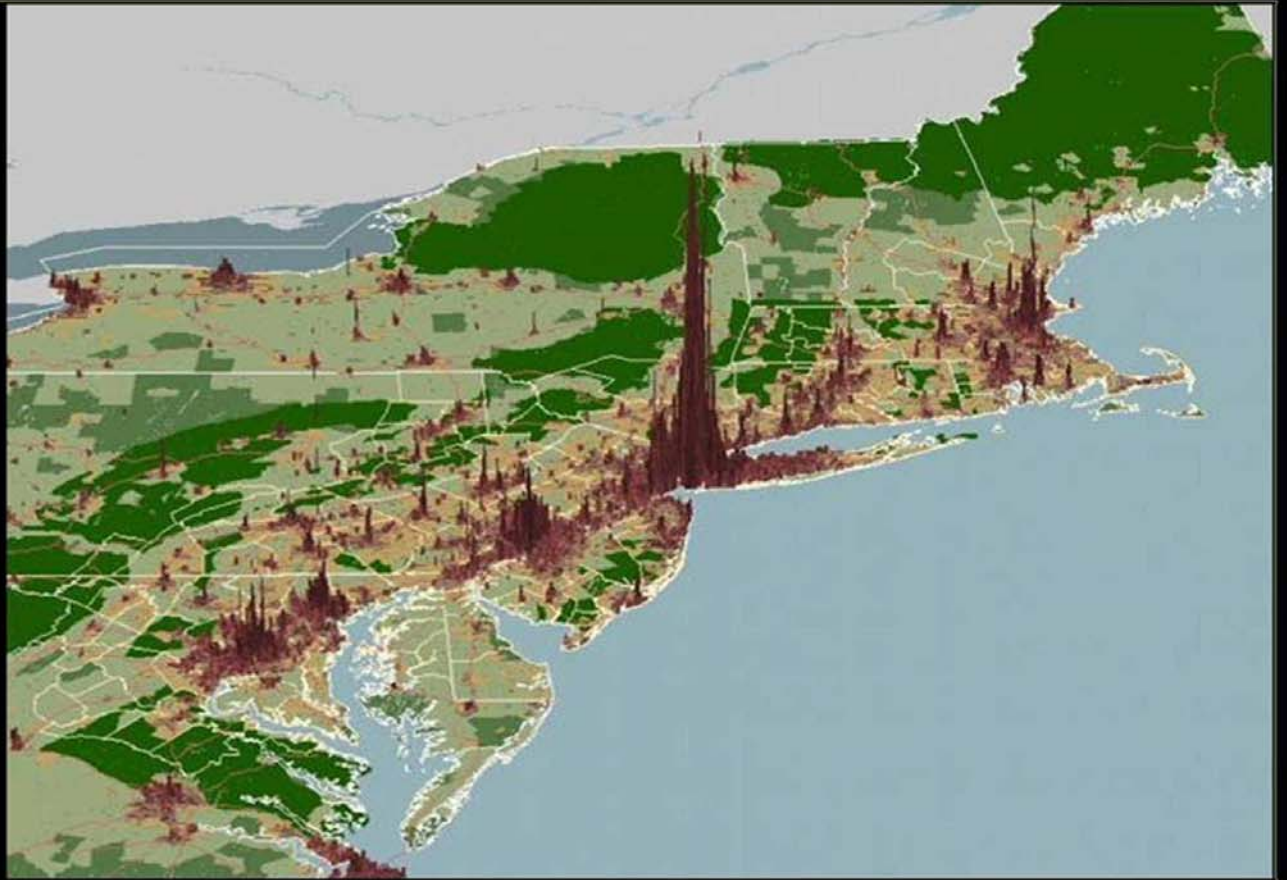
AMERICA 2050
SUPERCITIES



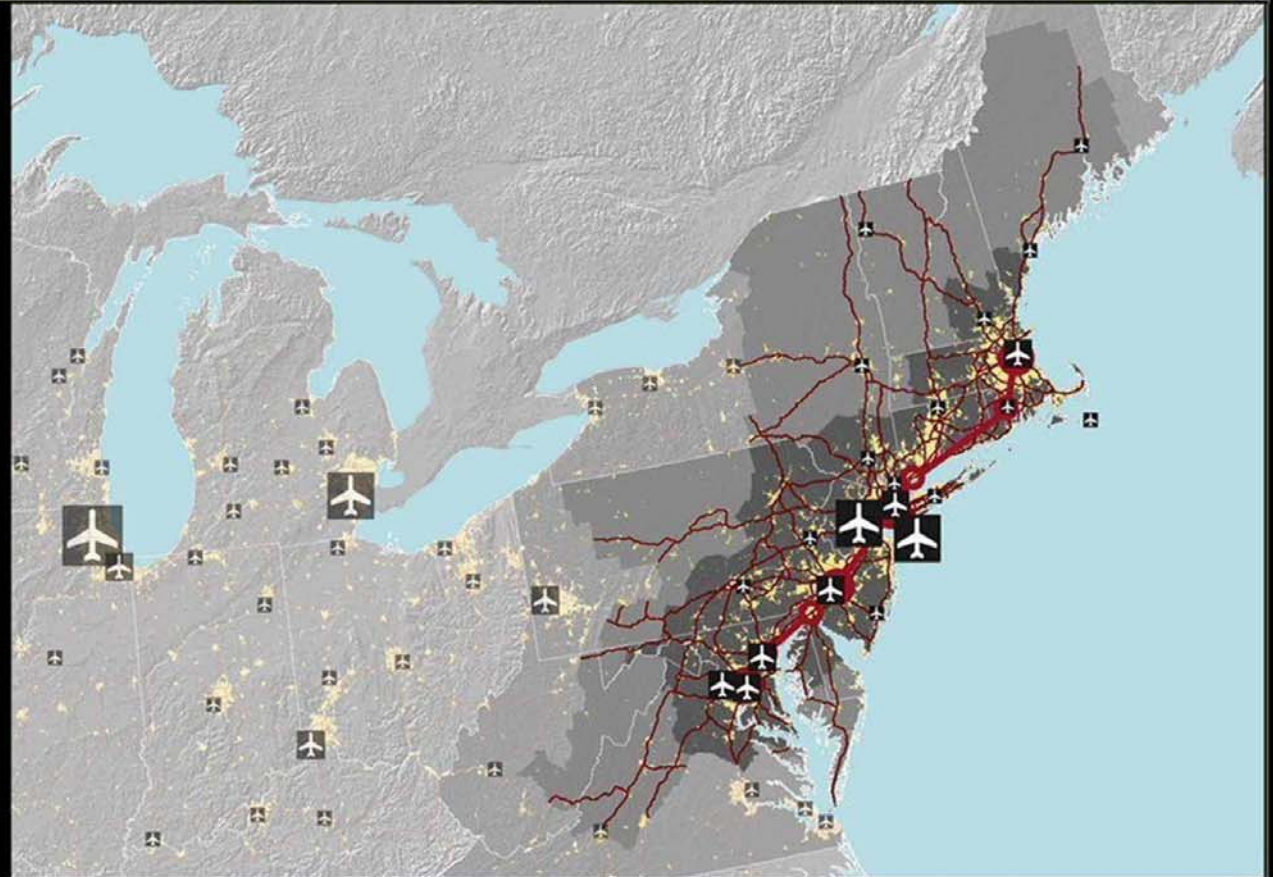


SUPERCITIES
10 Megaregions

SUPERCITIES
NORTHEAST ATLANTIC MEGAREGION



SUPERCITIES
NORTHEAST ATLANTIC MEGAREGION



SUPERCITIES
NORTHEAST ATLANTIC MEGAREGION





BUILDING
THE
EUROPEAN
DIAGONAL

Diagonal

TM FUNDACION METROPOLI

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



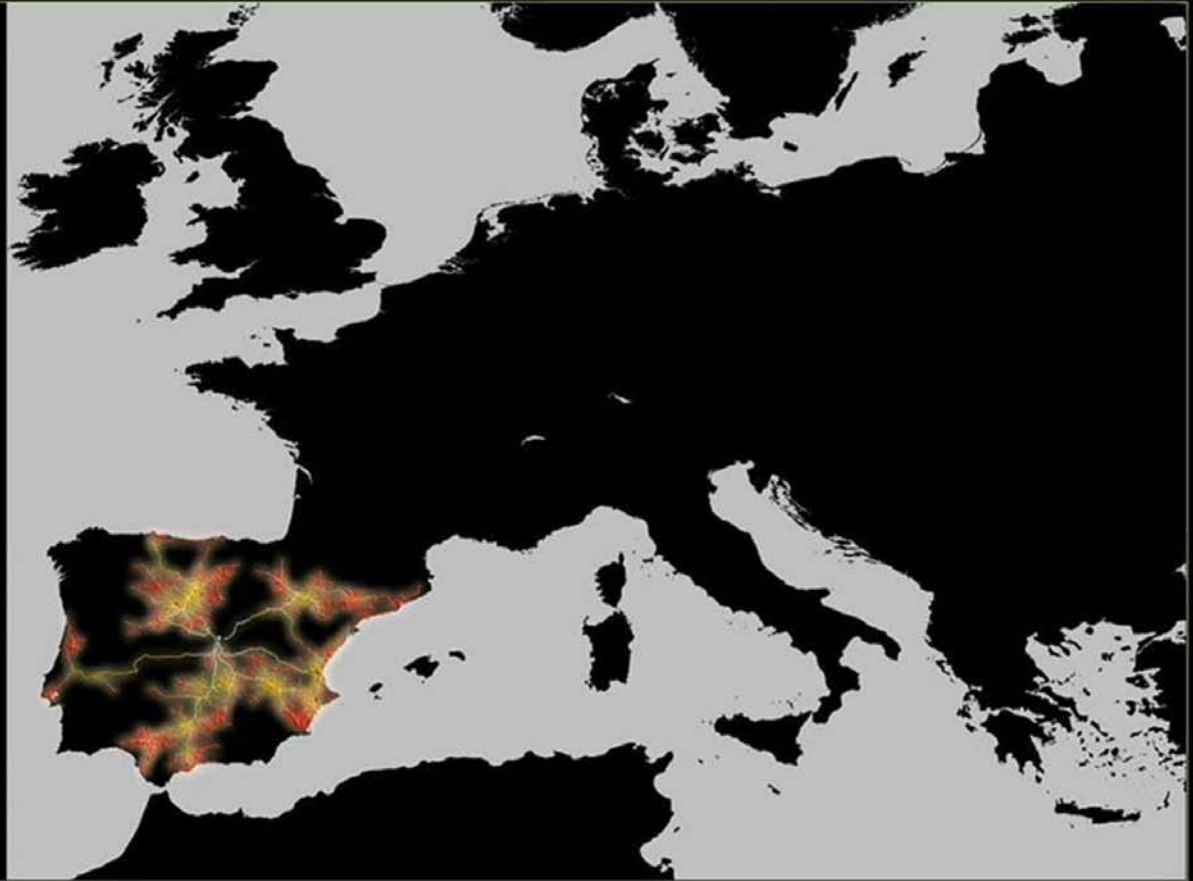
EUROPEAN DIAGONAL

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



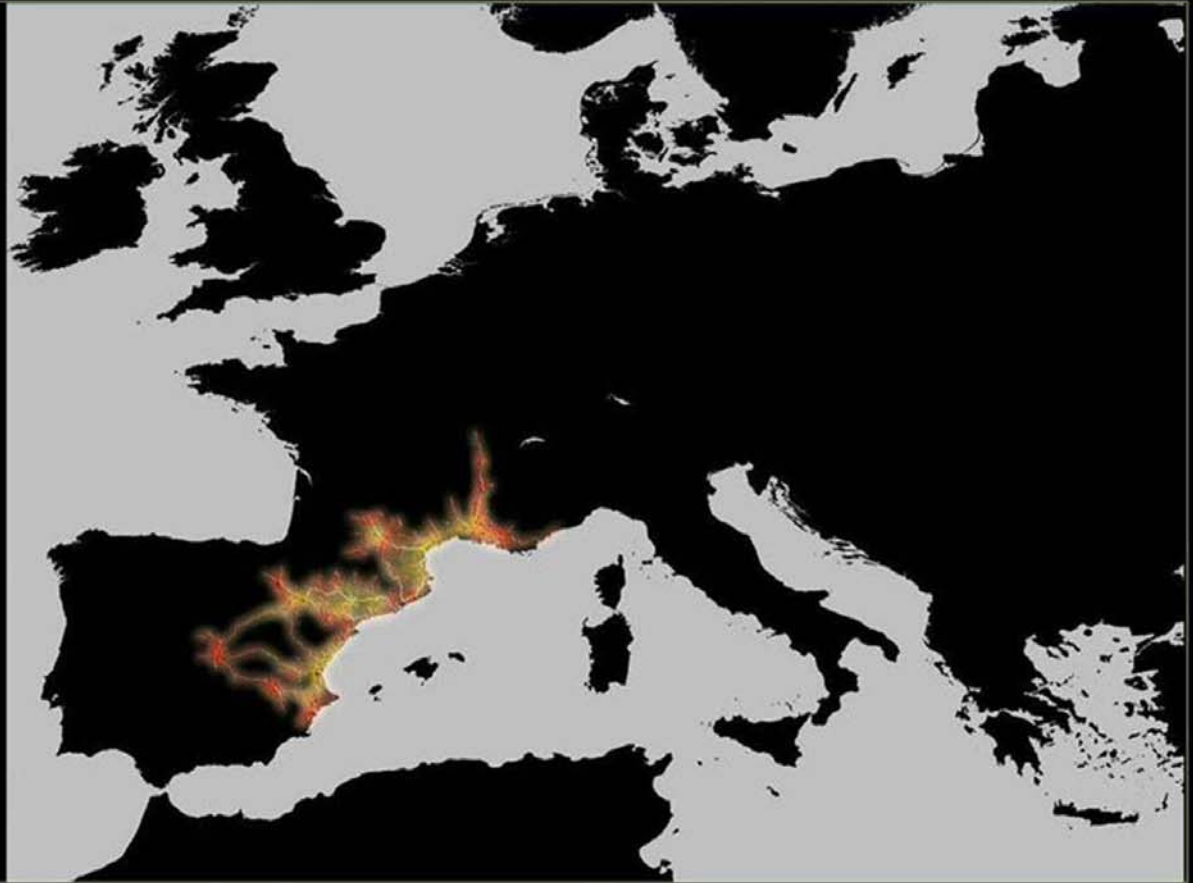
EUROPEAN DIAGONAL

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



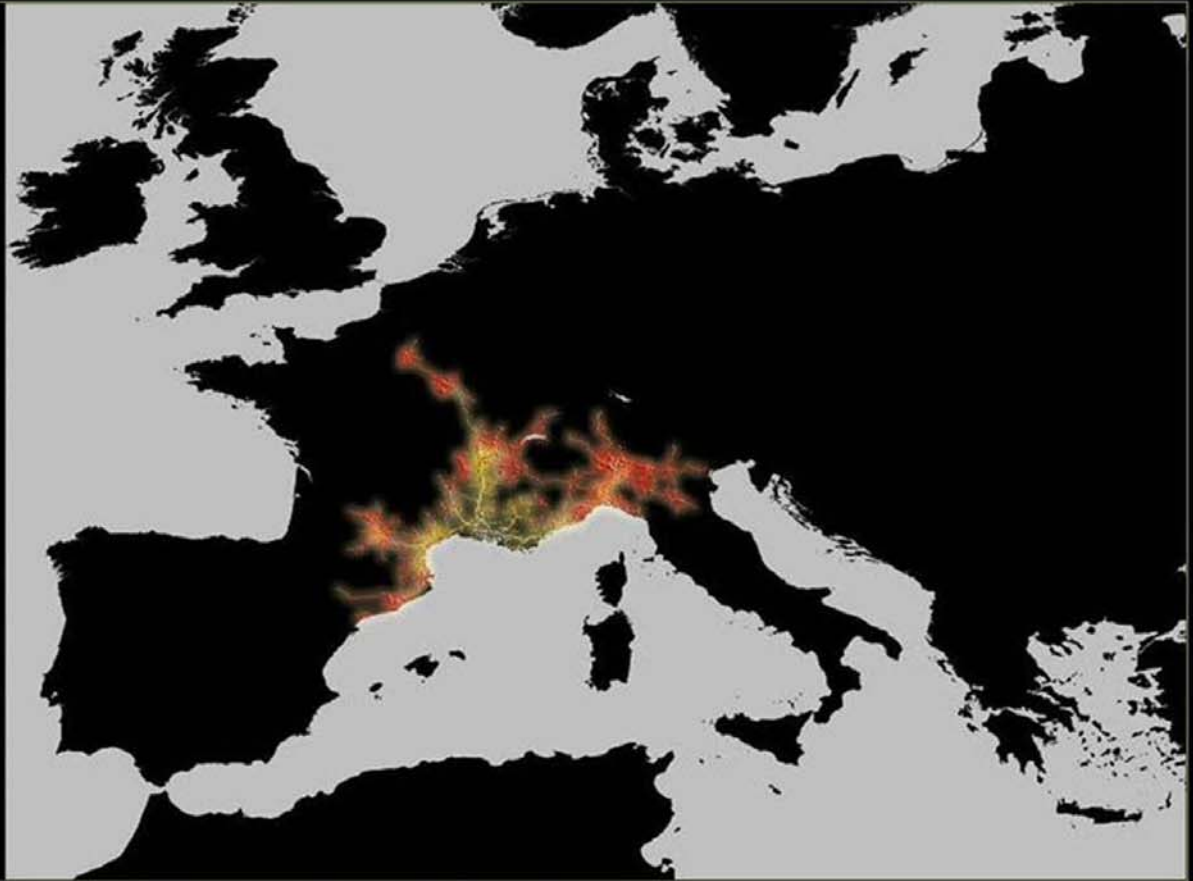
EUROPEAN DIAGONAL

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



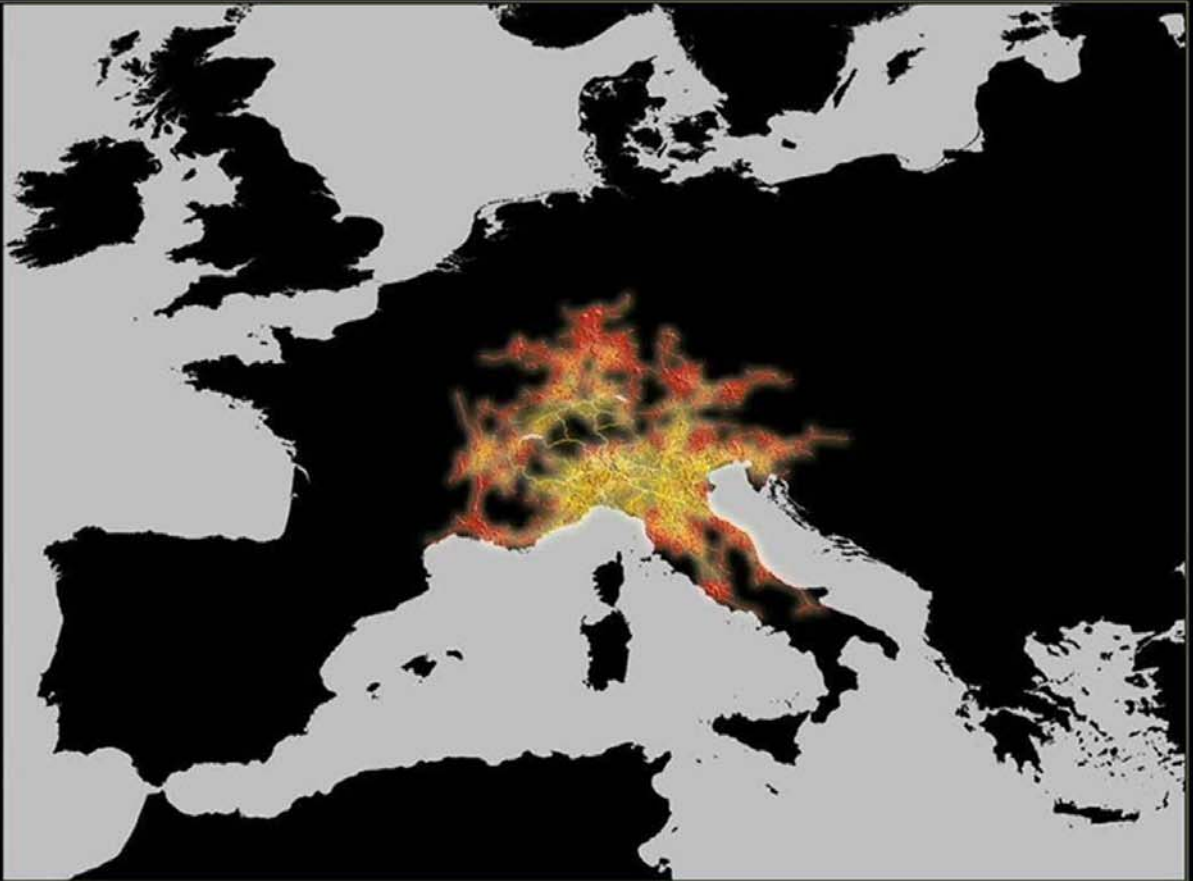
EUROPEAN DIAGONAL

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

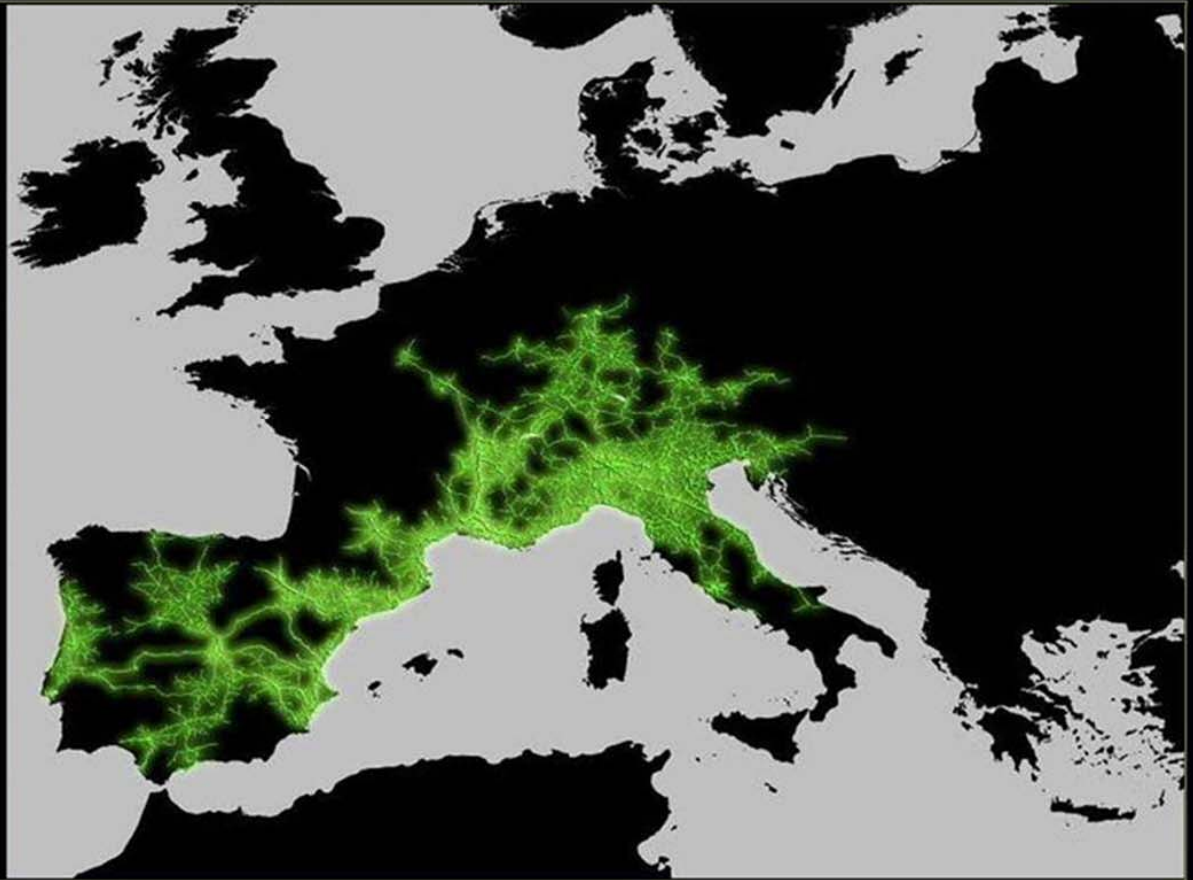


EUROPEAN DIAGONAL

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

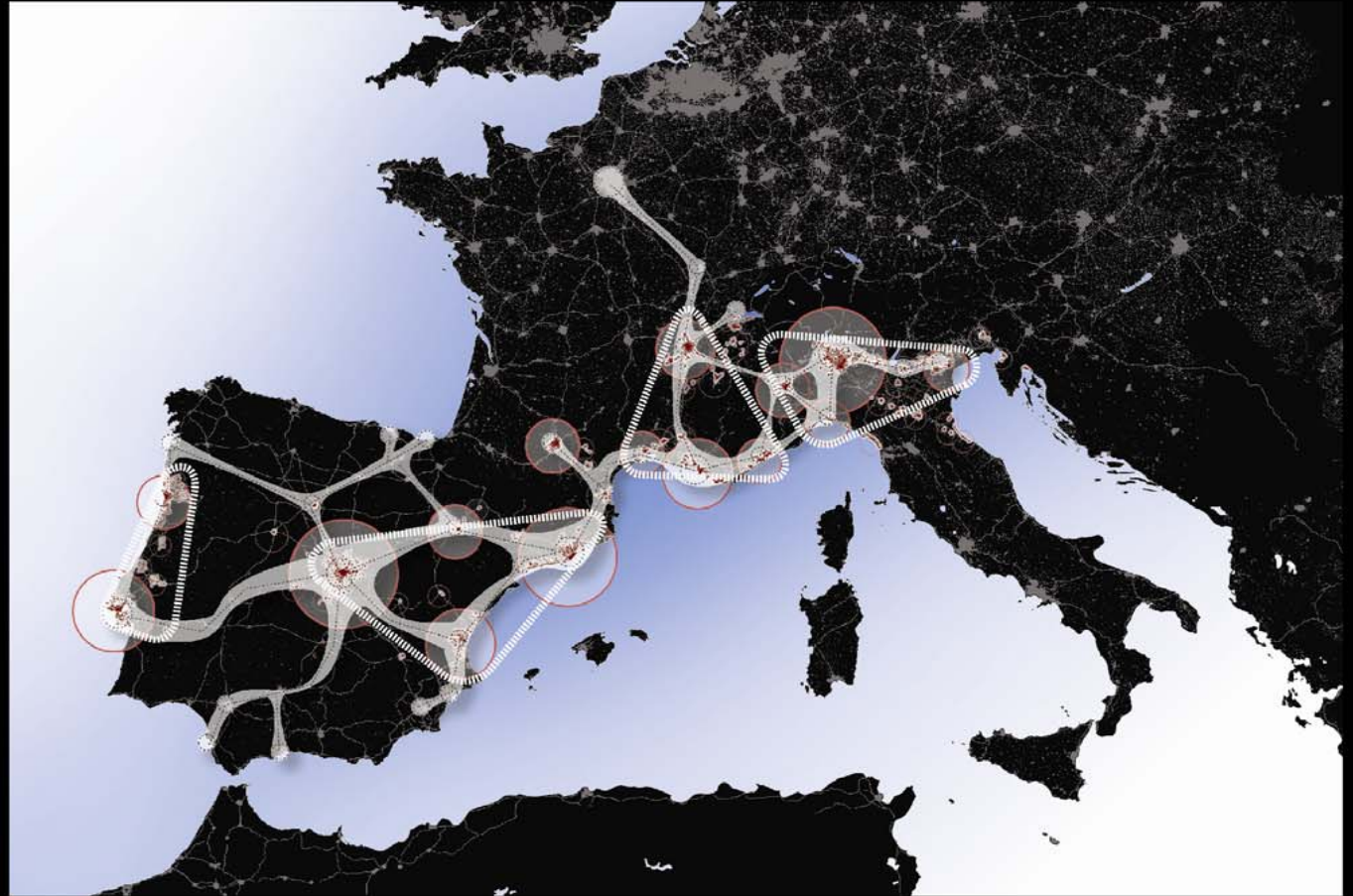
Super City Hubs and Satellites



EUROPEAN DIAGONAL

DIAMONDS

Creating Links between the
Urban Diamonds

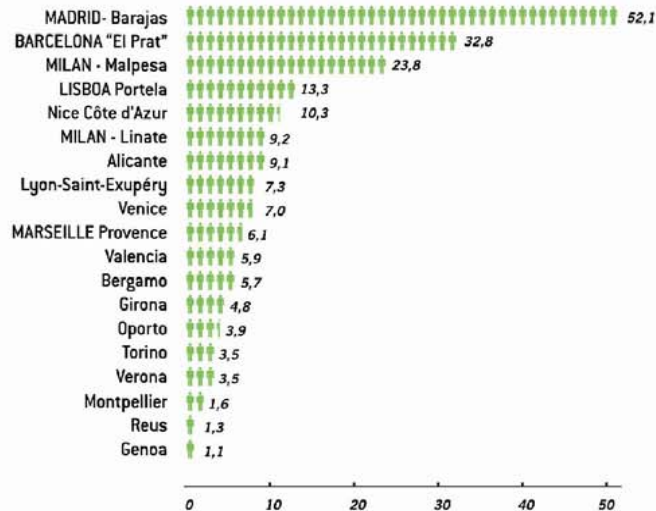


EUROPEAN DIAGONAL

BUSIEST AIRPORT IN THE DIAGONAL



(2007) Million passengers

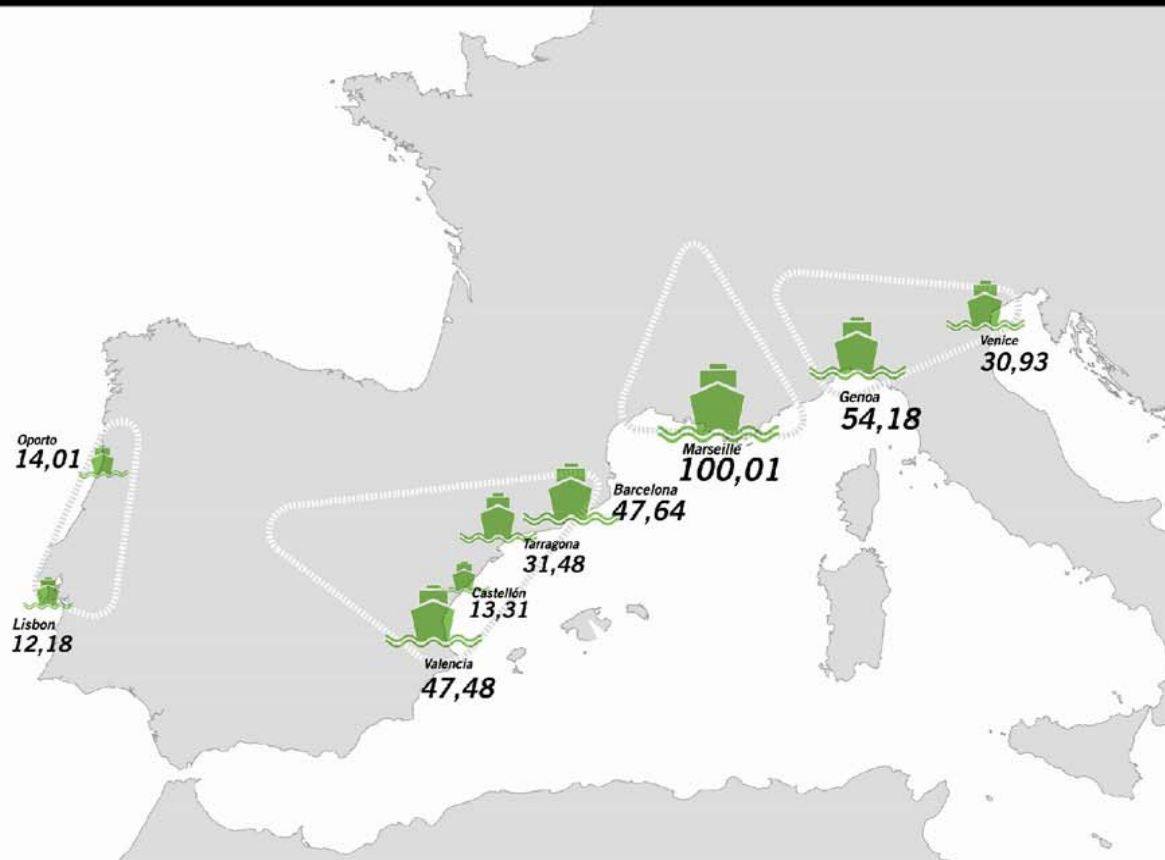
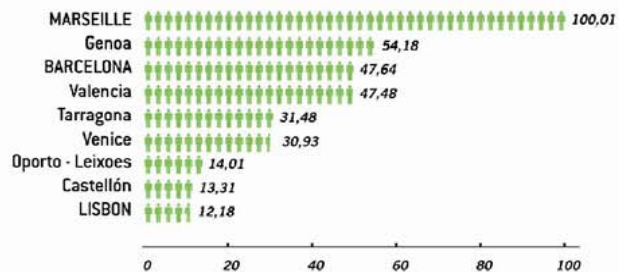


EUROPEAN DIAGONAL

BUSIEST AIRPORT IN THE DIAGONAL



(2006) Million Ton



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.”

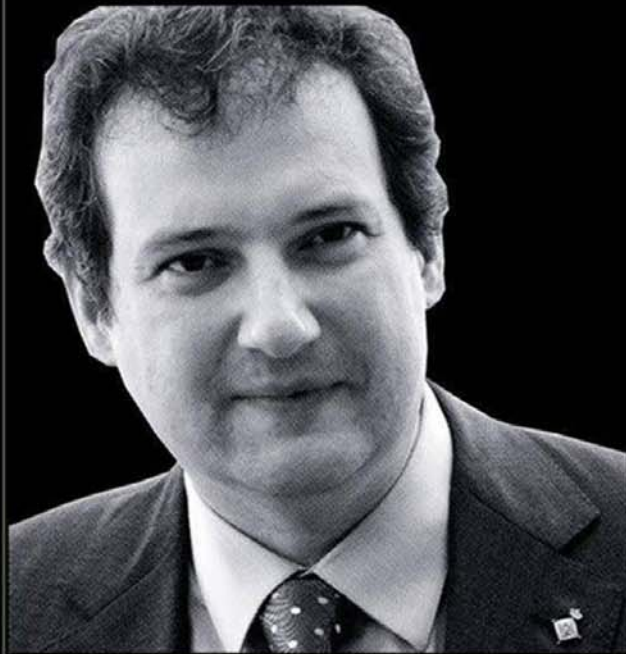
ANTONIO LUIS SANTOS DA COSTA | *Alcalde de Lisboa*

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



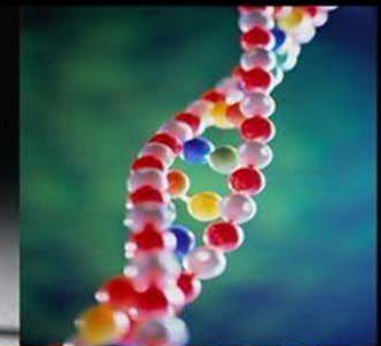
LABORATORIO DE CIUDADES

SINGAPUR 





TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH



TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH

an experiment!



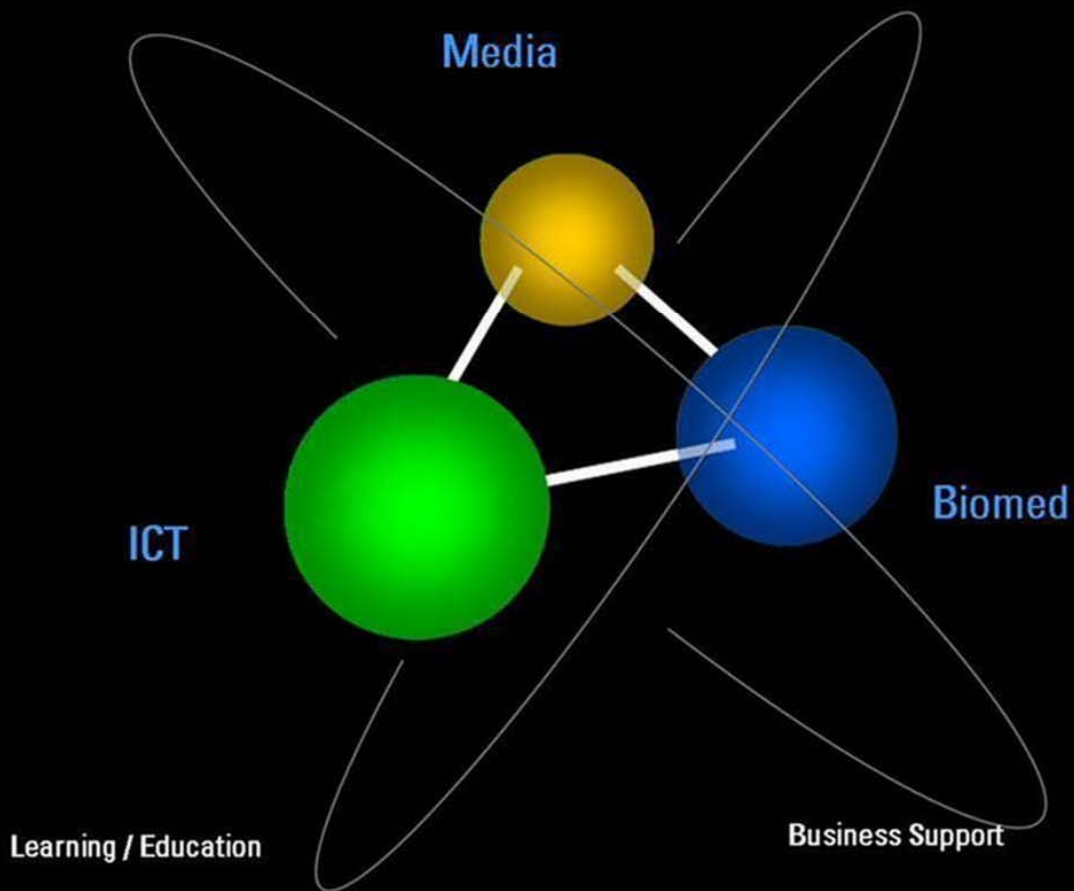
one-north



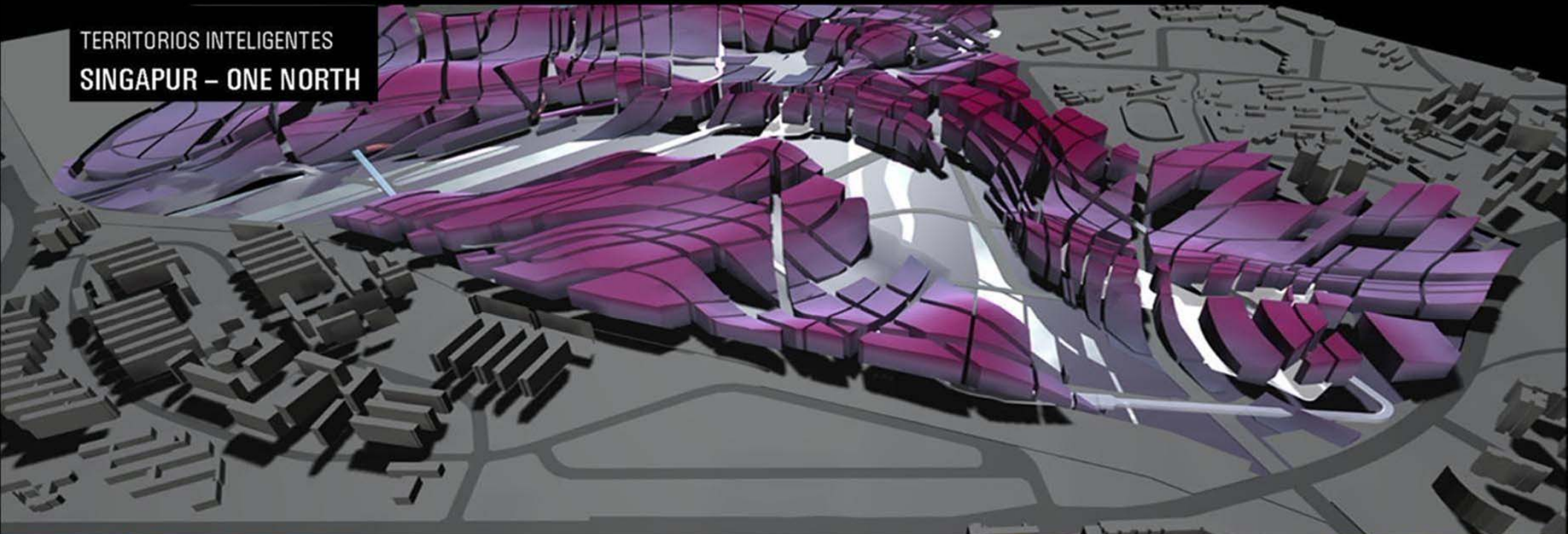
TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH

Lifestyle Support

Entertainment



TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH

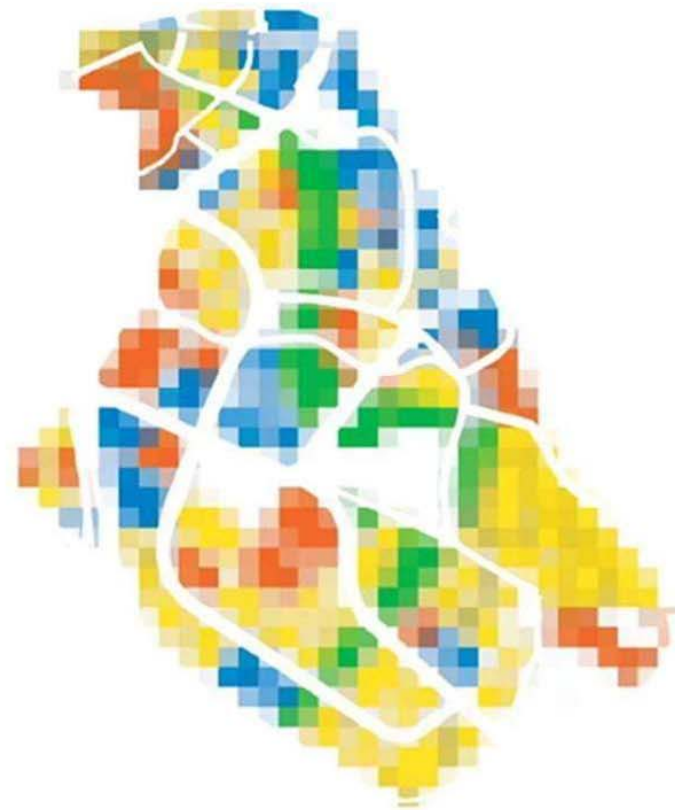


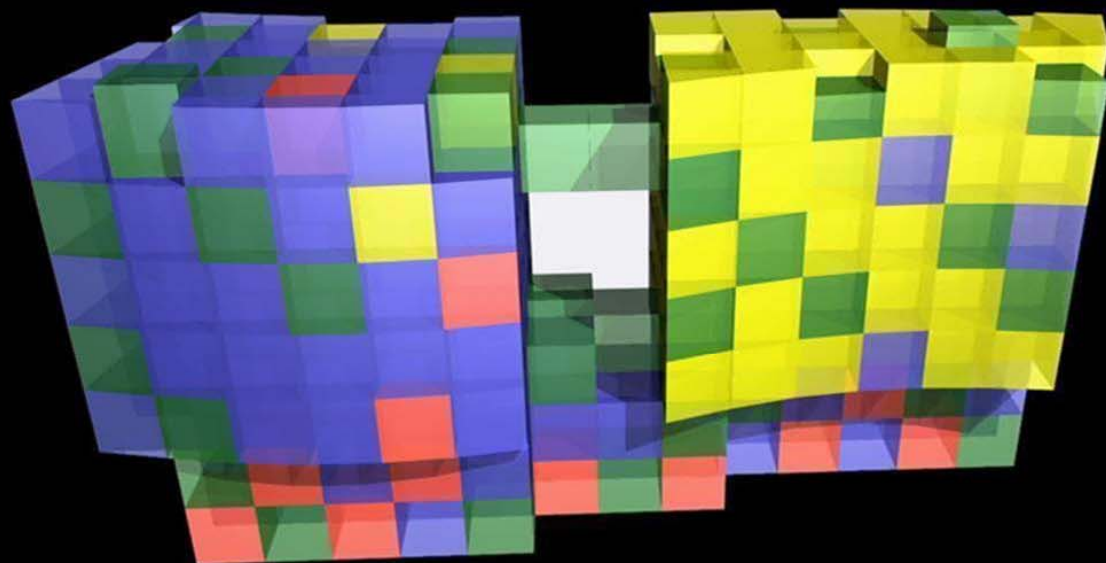
Alfonso Vegara

TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH



- mixing and layering of different uses
- symbiosis between business ecologies and urban life





Work Live Play Learn



residents



scientists



researchers



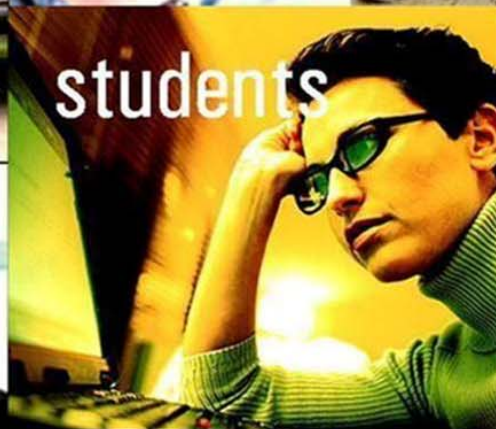
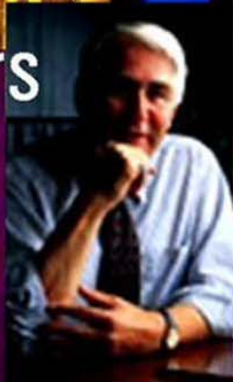
artists



academics



technopreneurs



students

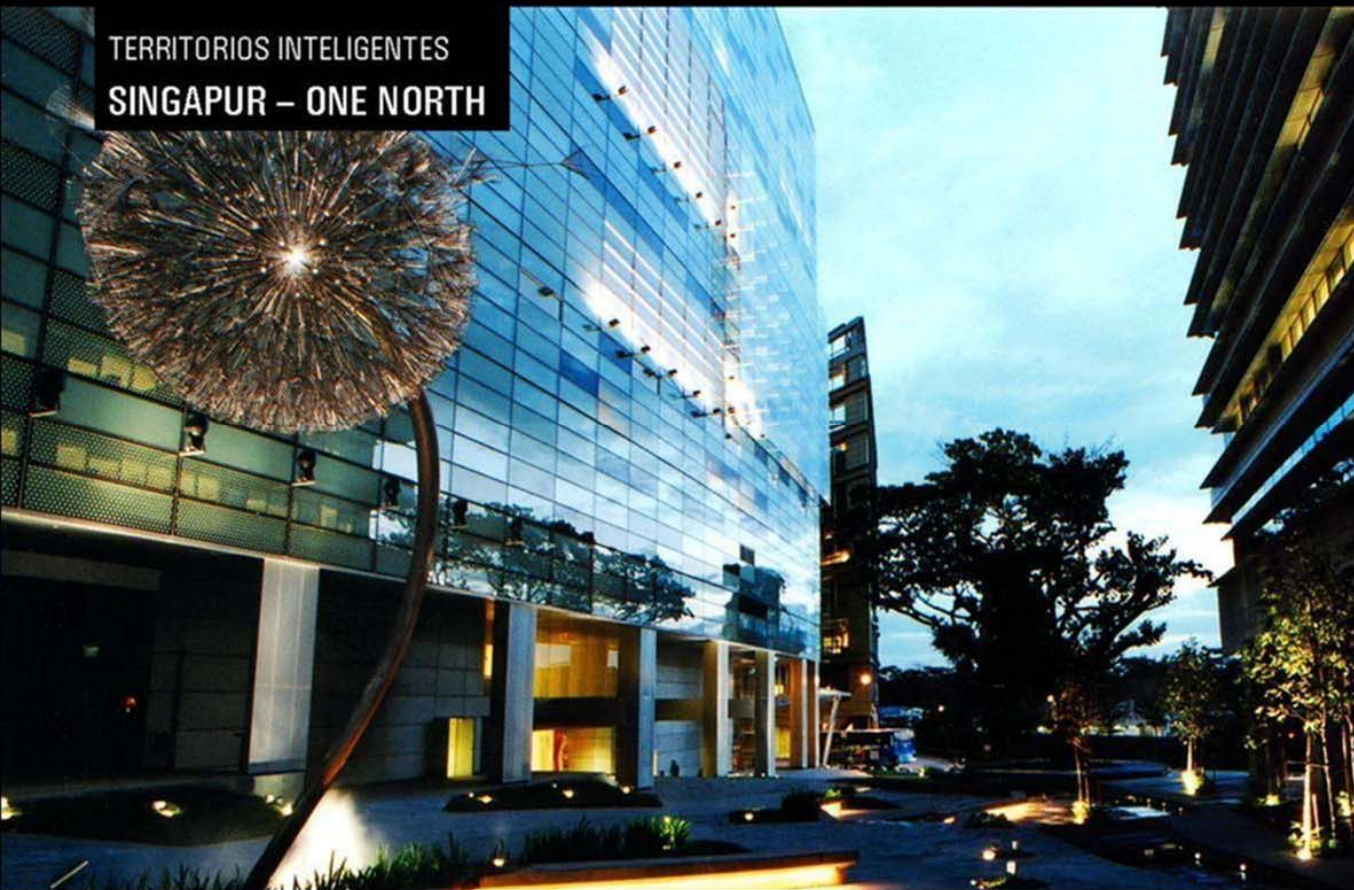


venture capitalists

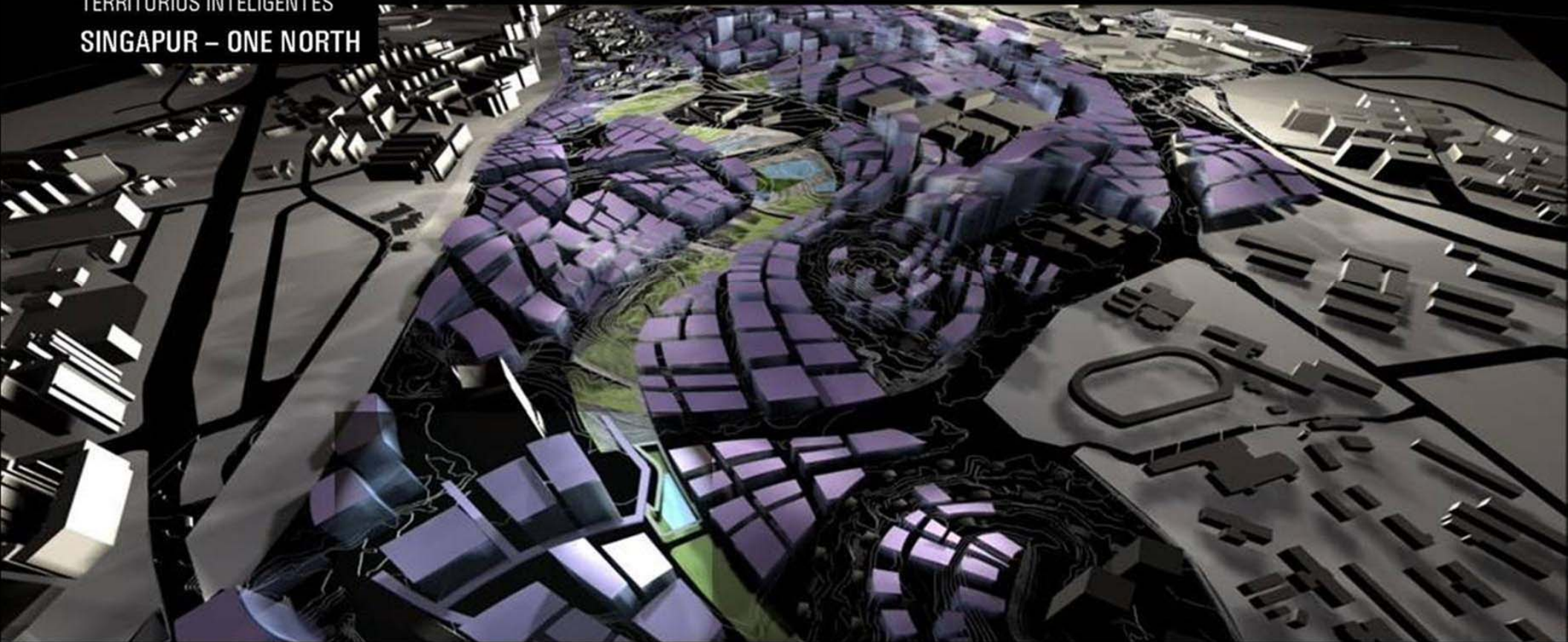
TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH



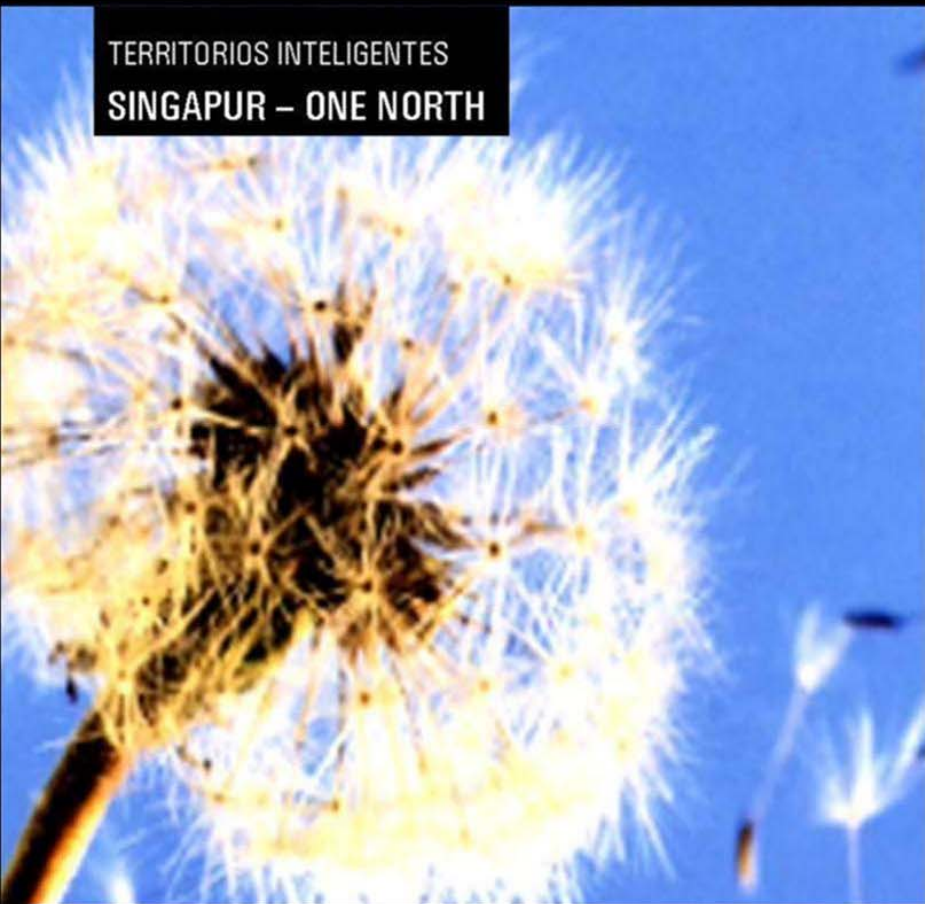
TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH



TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH



TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH



one-north
an exceptional place of vision and inspiration
where ideas grow

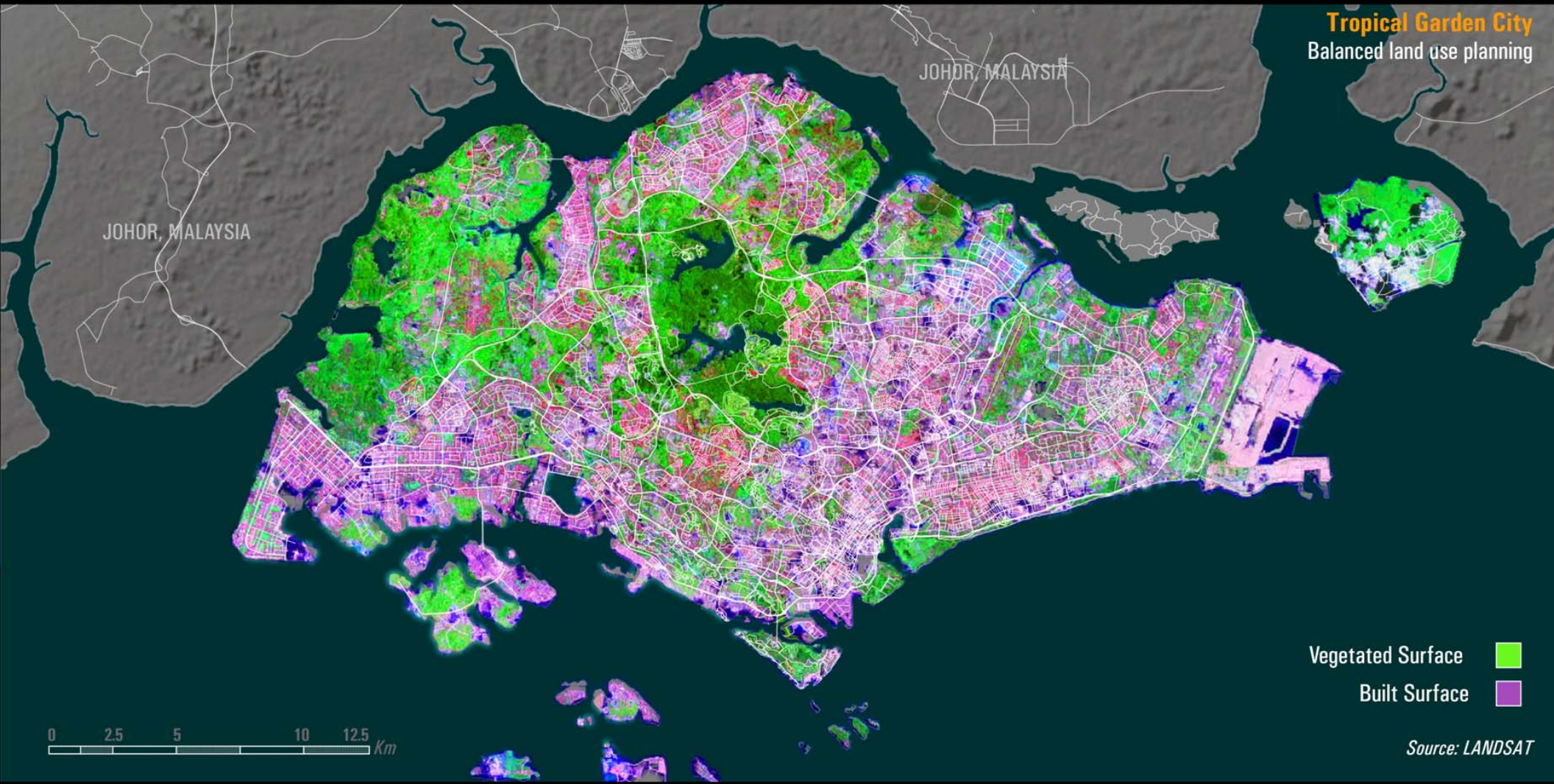
Beyond R&D a living laboratory: Ideas to solutions to business

Urban Lab



Be future ready,
tomorrow's solutions today







Tropical Garden City
Balanced land use planning

JOHOR, MALAYSIA

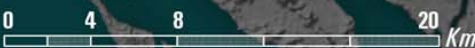
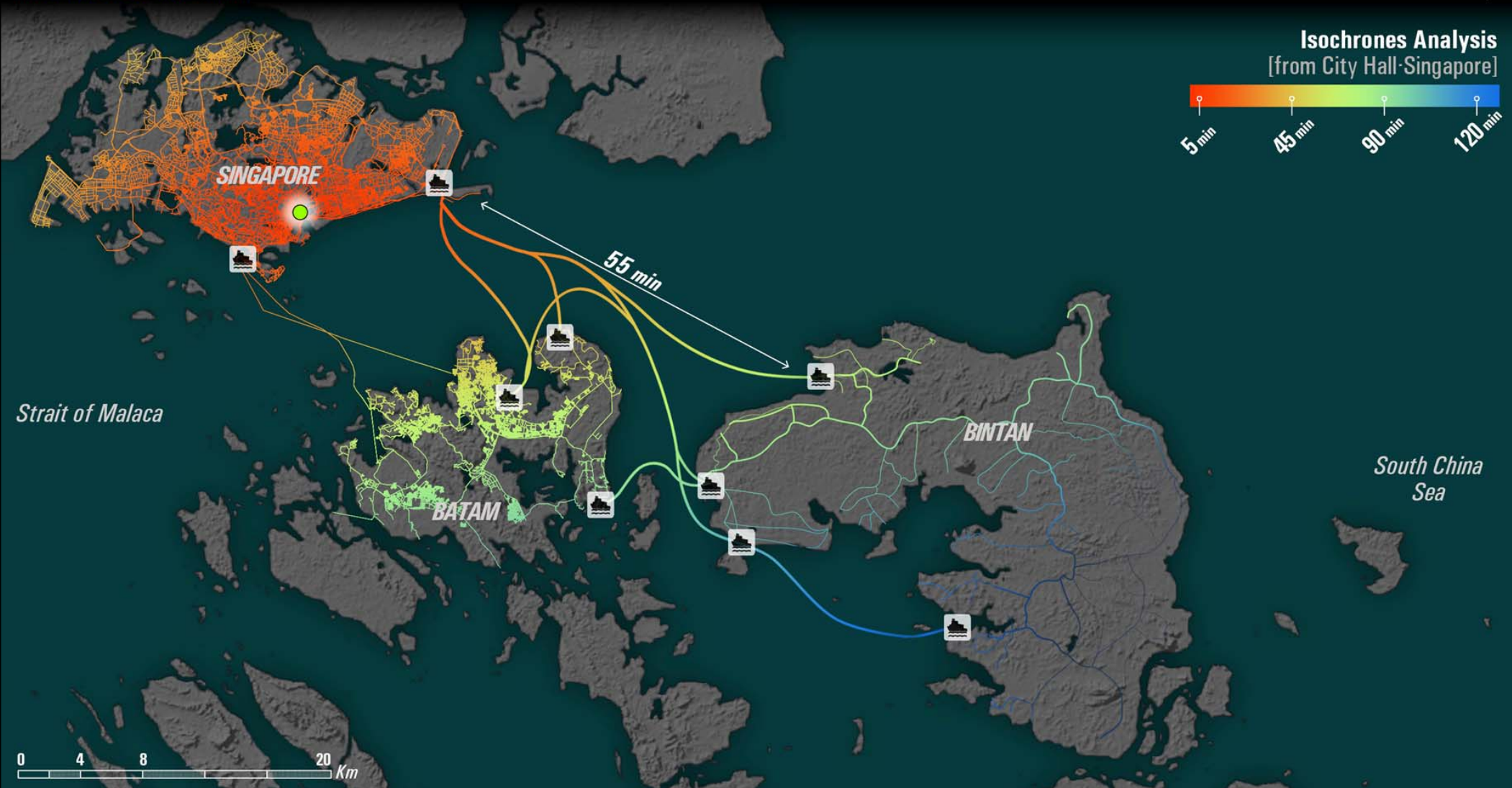
JOHOR, MALAYSIA

Vegetated Surface 
Built Surface 

0 2.5 5 10 12.5 Km

Source: LANDSAT

Isochrones Analysis
[from City Hall-Singapore]



Weekly Flight Frequency

OVER 600 WEEKLY FLIGHTS
(+ 31,000 flights per year)
IN THE MALACCA STRAITS
DIAGONAL

X Number of weekly flights
--- Future Route

Penang International



Sultan Abdul Aziz Shah (Subang)



Kuala Lumpur International



Malacca International



Senai International



Changi International



133

14

74

70

14

49

42

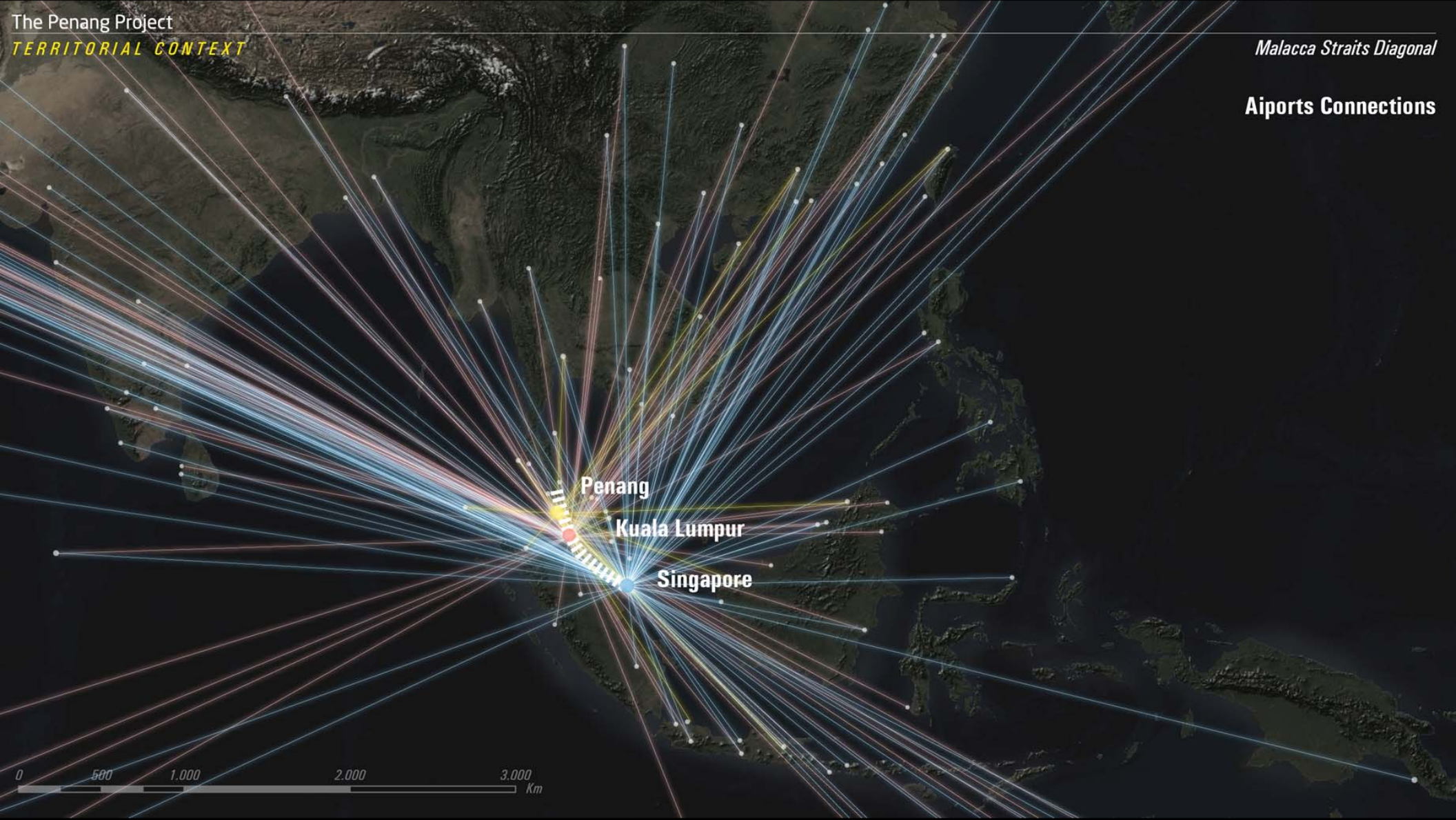
230

Source: various(official airport websites, wikipedia)



THE MALACCA STRAITS DIAGONAL

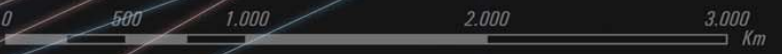


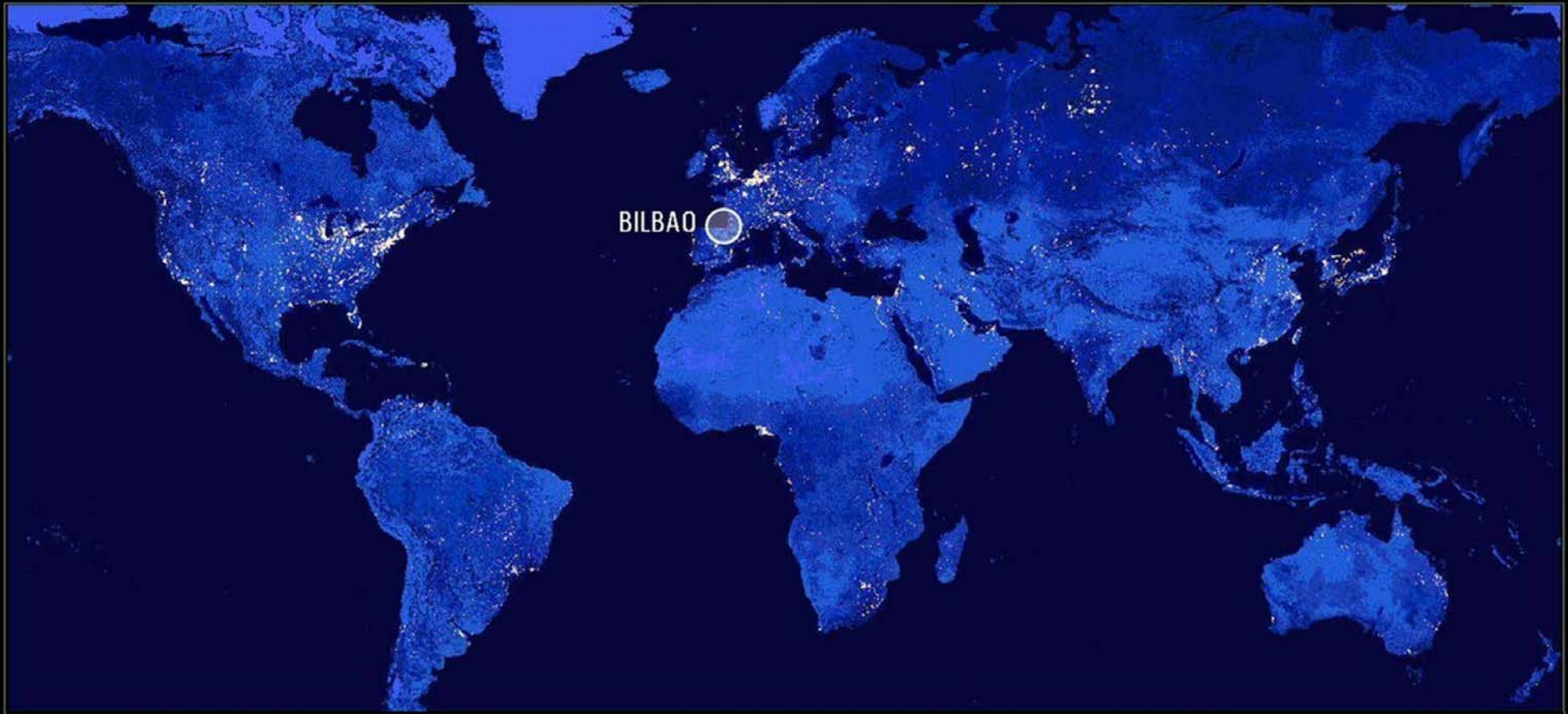


Penang

Kuala Lumpur

Singapore



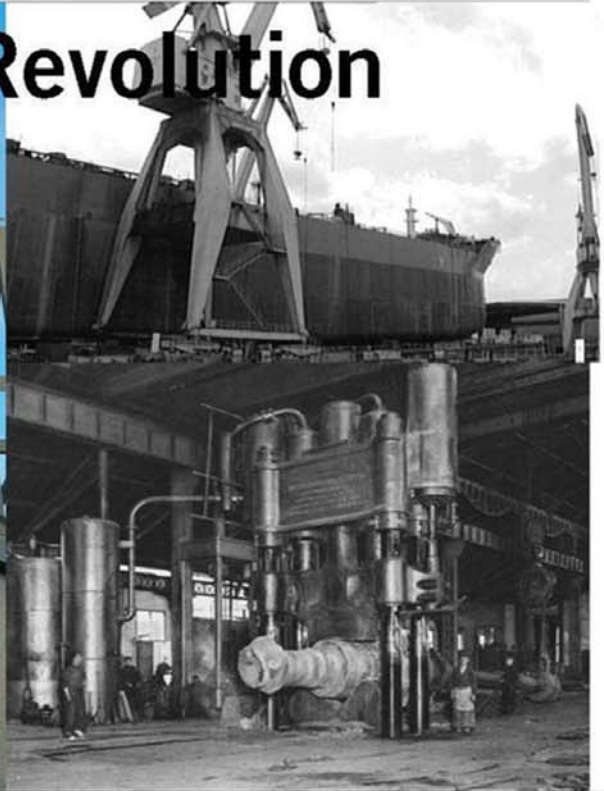
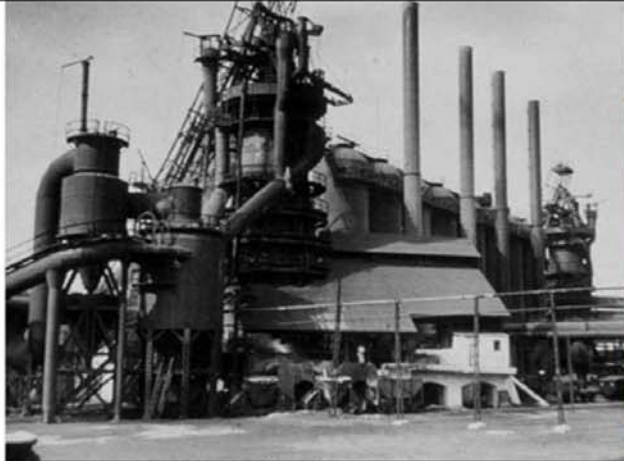




Bilbao GUGGENHEIM ++

Shanghai World Expo 2010
Better City, Better Life

The Industrial Revolution





Bilbao GUGGENHEIM ++

Shanghai World Expo 2010
Better City, Better Life

the **floods** of
1983





Bilbao GUGGENHEIM ++

Shanghai World Expo 2010
Better City, Better Life

the **floods** of
1983

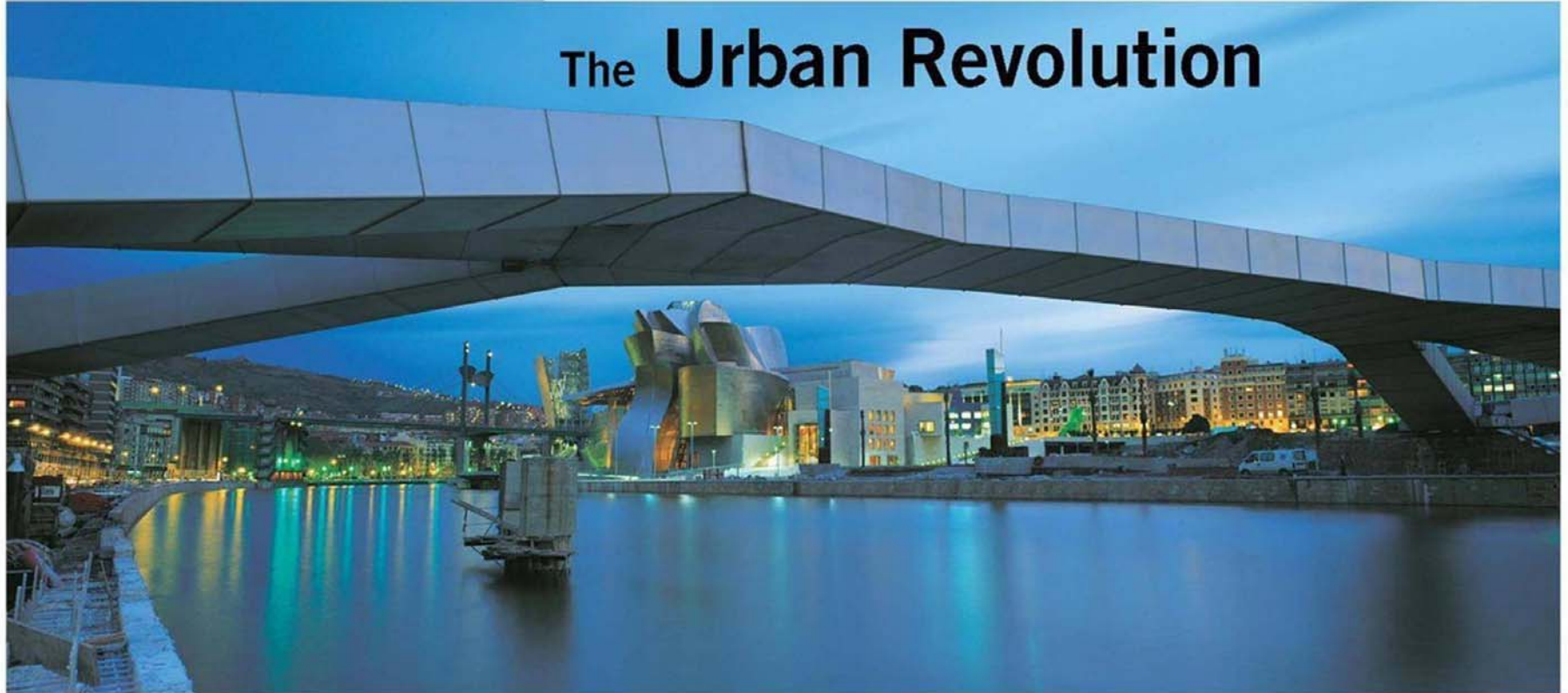




Bilbao GUGGENHEIM ++

Shanghai World Expo 2010
Better City, Better Life

The Urban Revolution

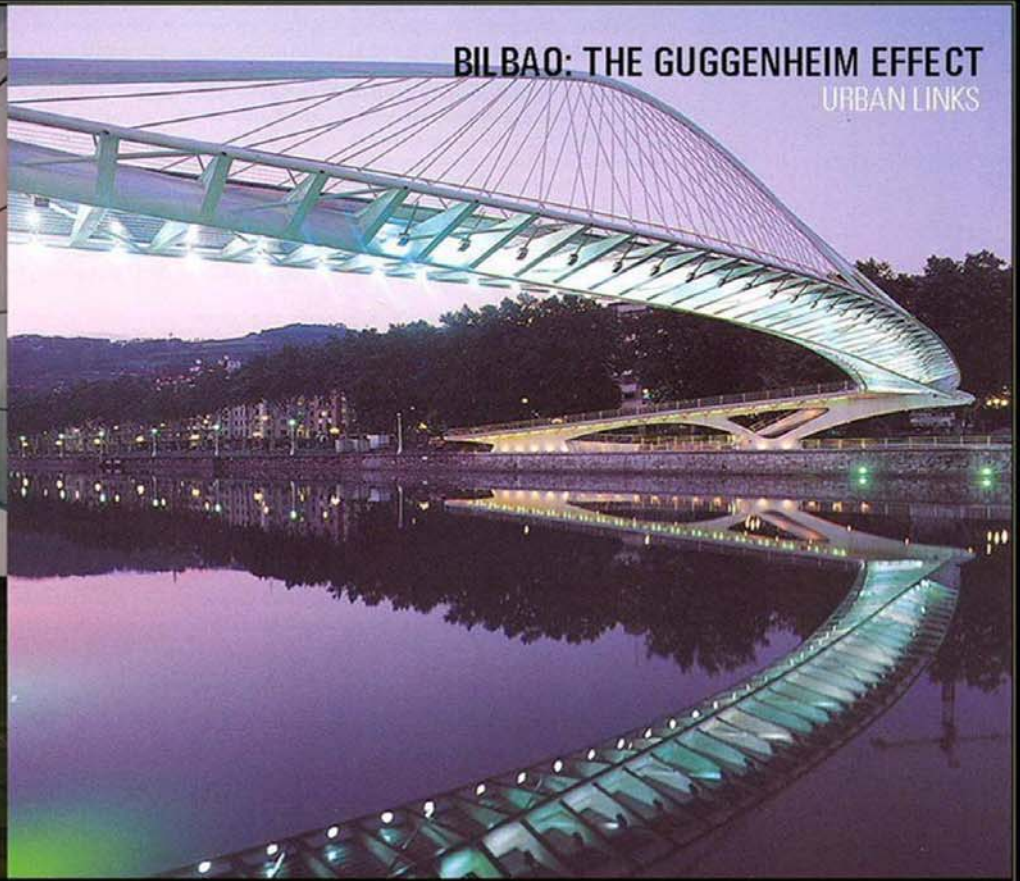


BILBAO: THE GUGGENHEIM EFFECT





Architecture of excellence



BILBAO: THE GUGGENHEIM EFFECT

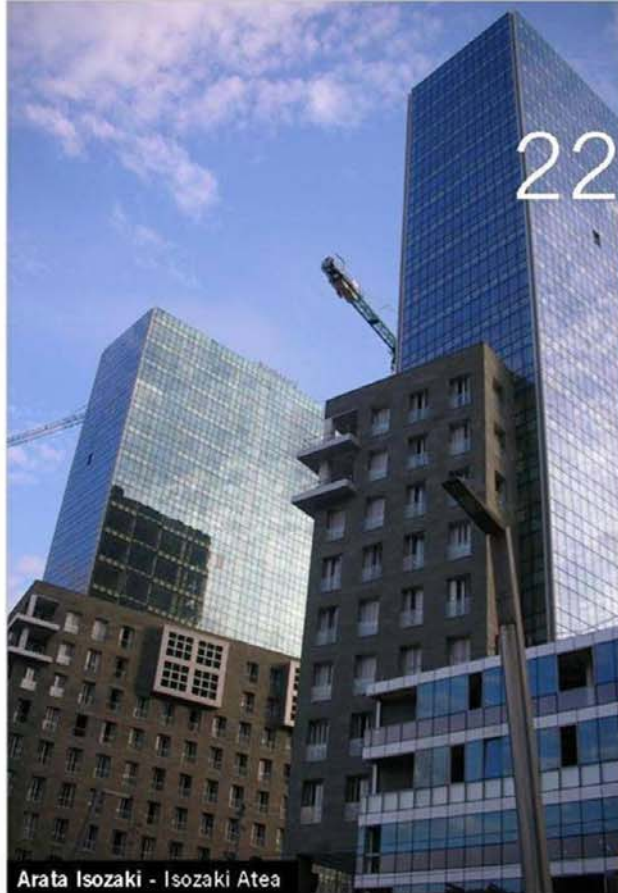




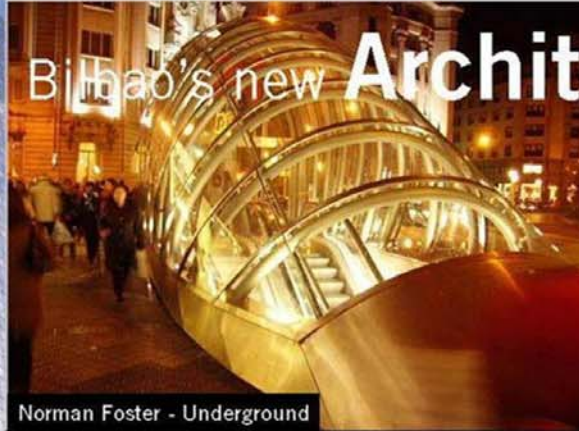
Bilbao GUGGENHEIM ++

Shanghai World Expo 2010
Better City, Better Life

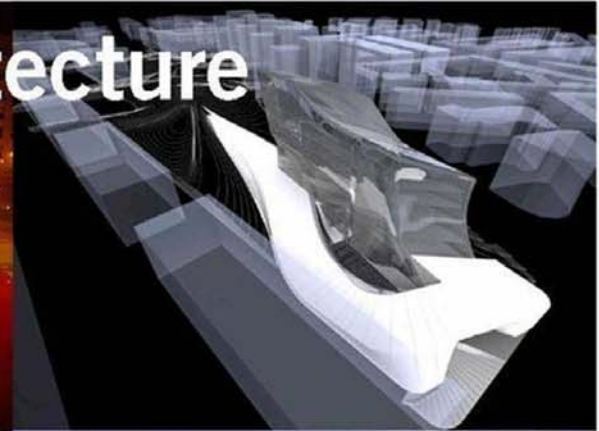
22 Bilbao's new Architecture



Arata Isozaki - Isozaki Atea



Norman Foster - Underground



Rafael Moneo - Deusto Library



Zaha Hadid - Euskotren, Durango



Bilbao GUGGENHEIM ++

Shanghai World Expo 2010
Better City, Better Life

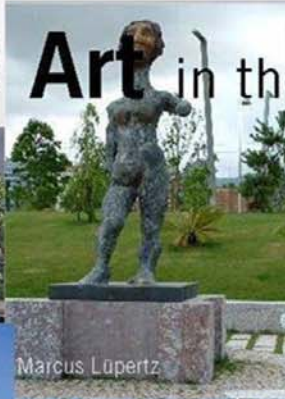
23 Art in the City



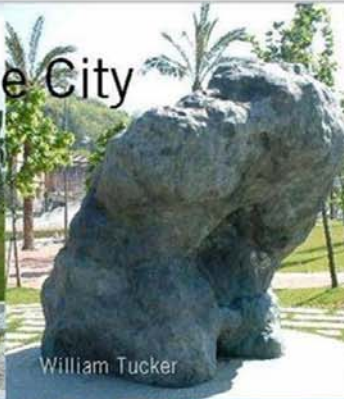
Salvador Dalí



Jeff Koons



Marcus Lüpertz



William Tucker



Ulrich Rückriem



Jorge Oteiza



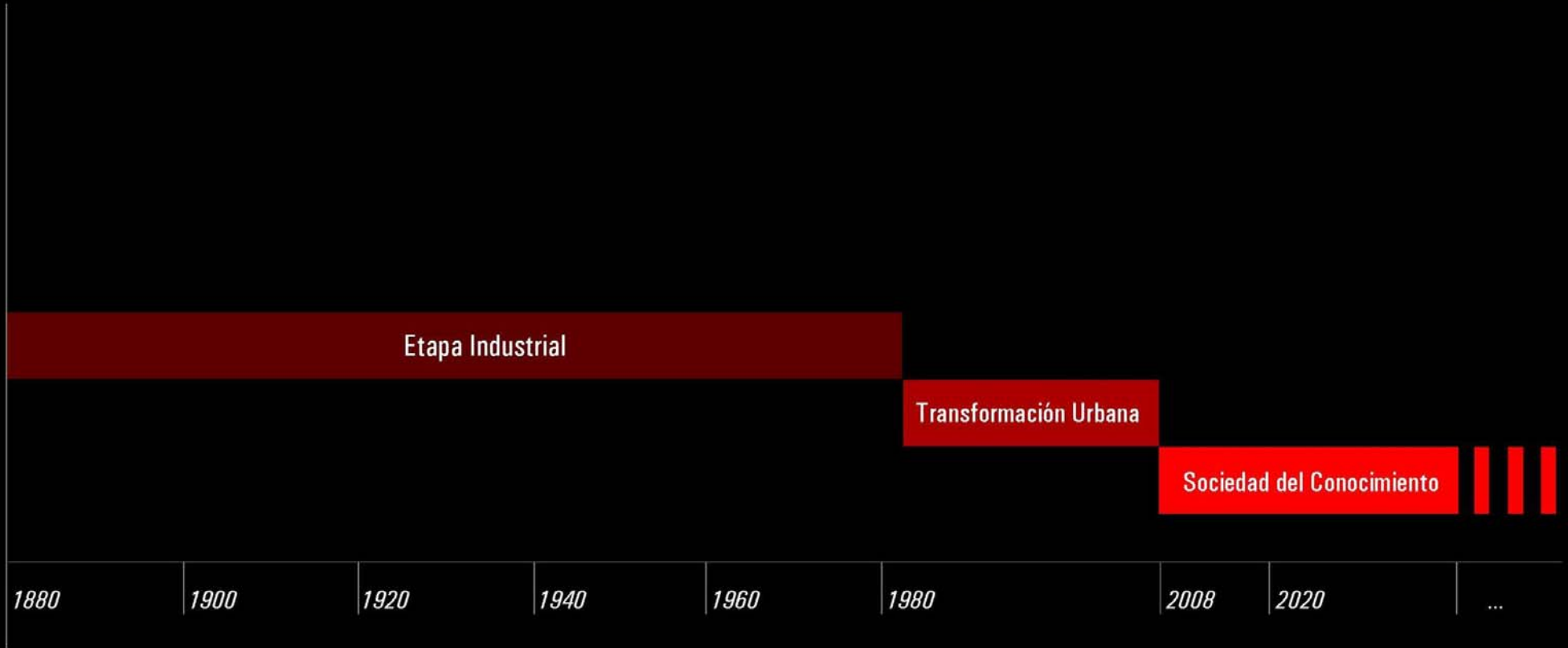
Jose Zugasti



Madolo Valdes - Vargas Llosa



Louise Bourgeois

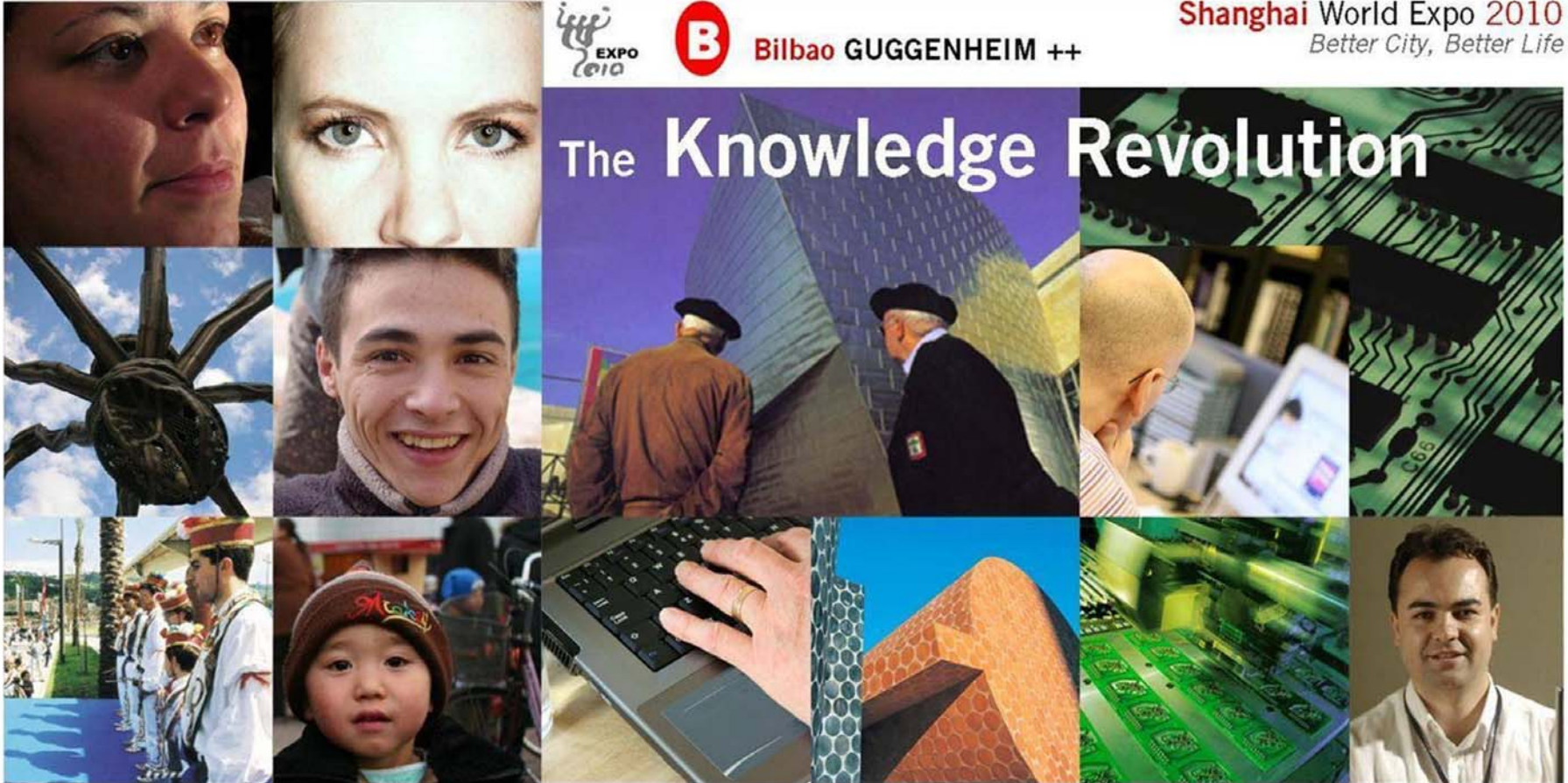


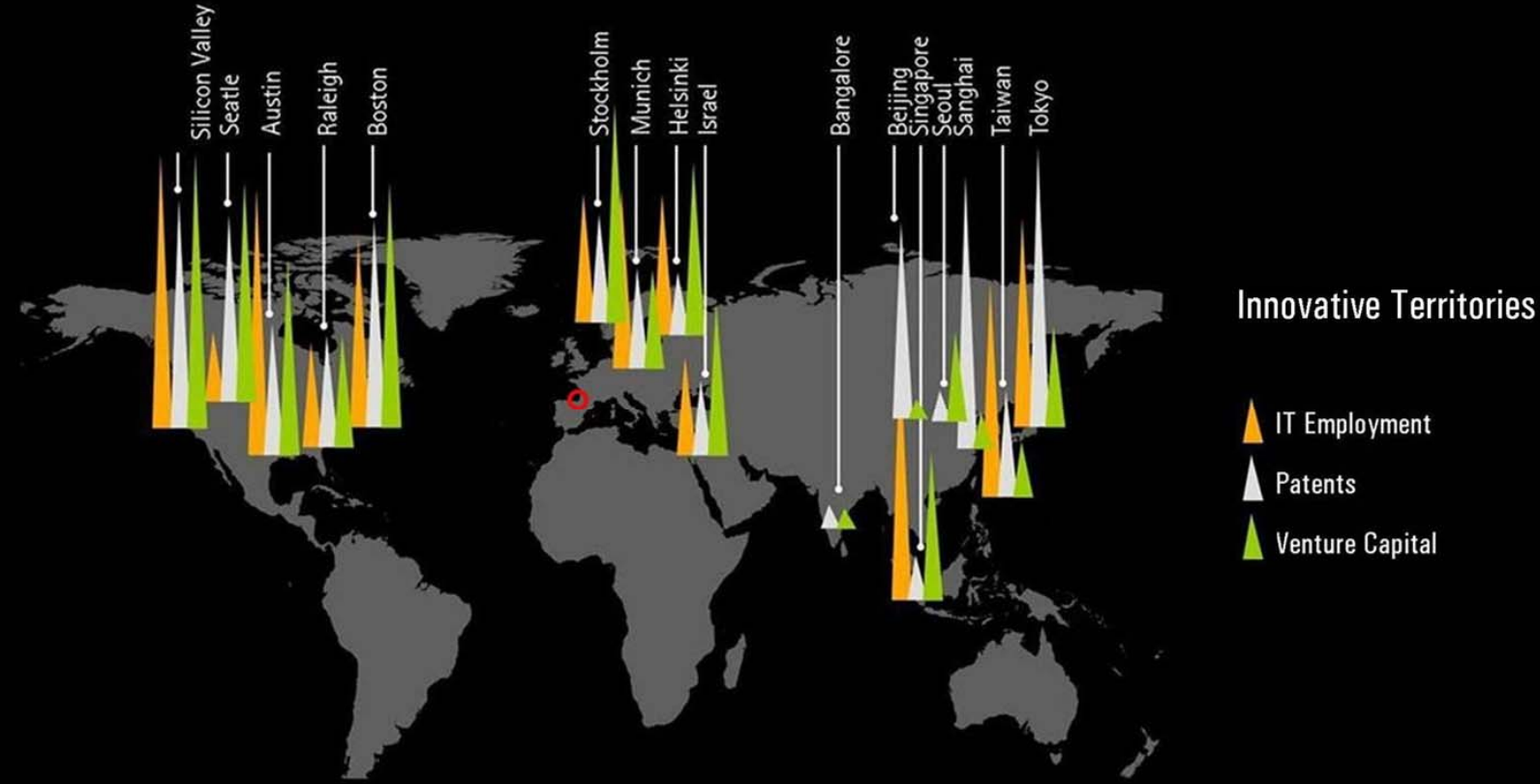


Bilbao GUGGENHEIM ++

Shanghai World Expo 2010
Better City, Better Life

The Knowledge Revolution

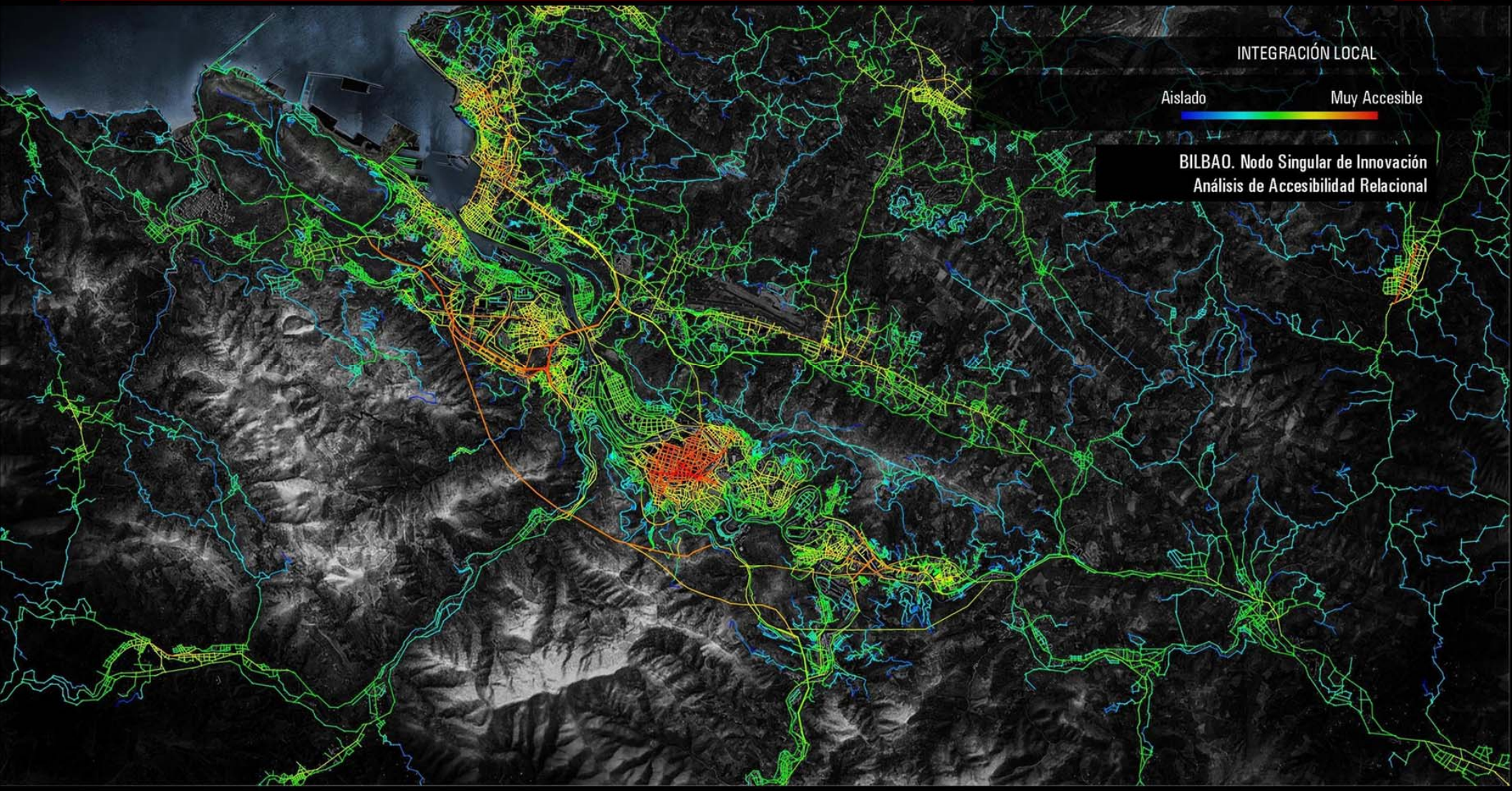


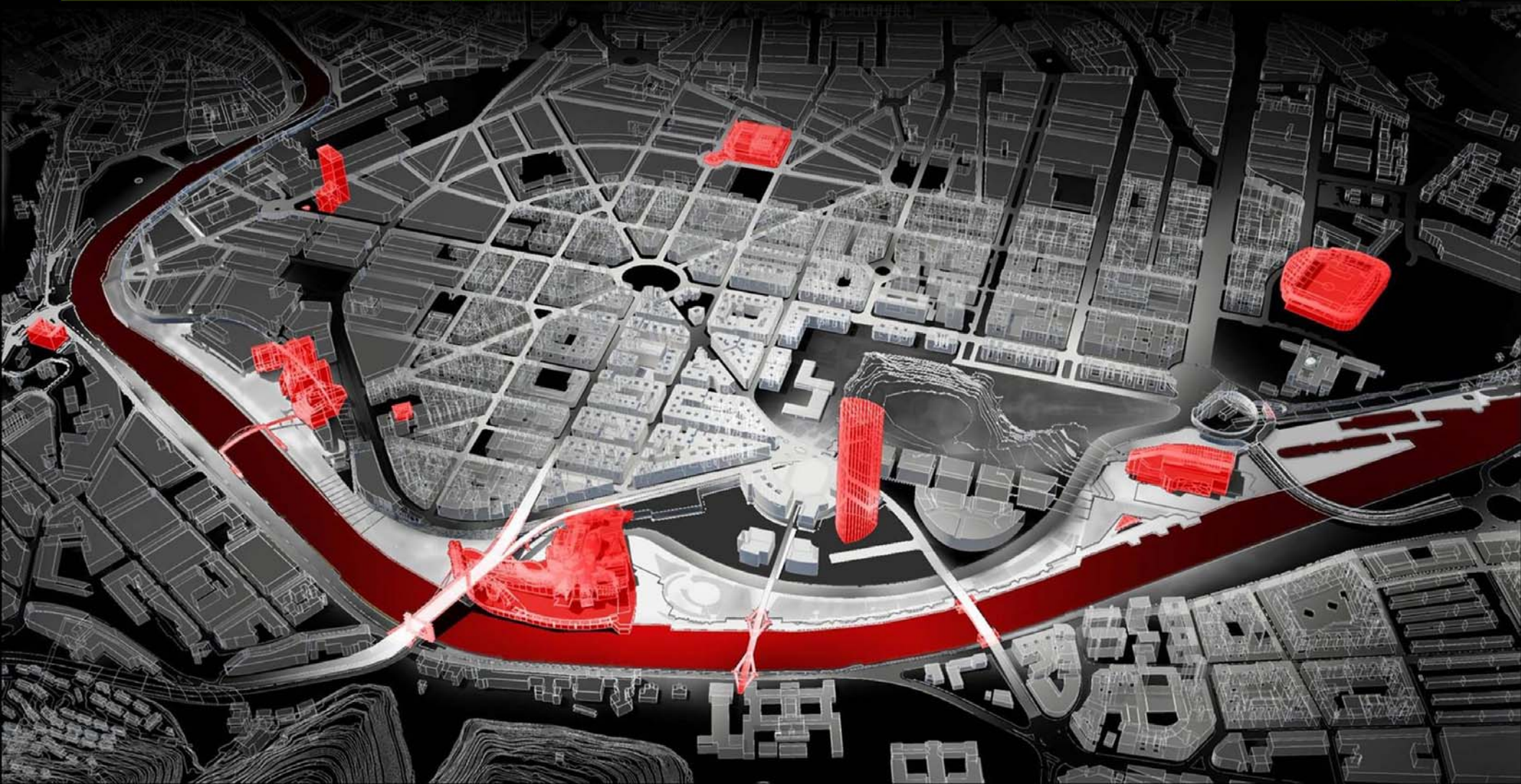


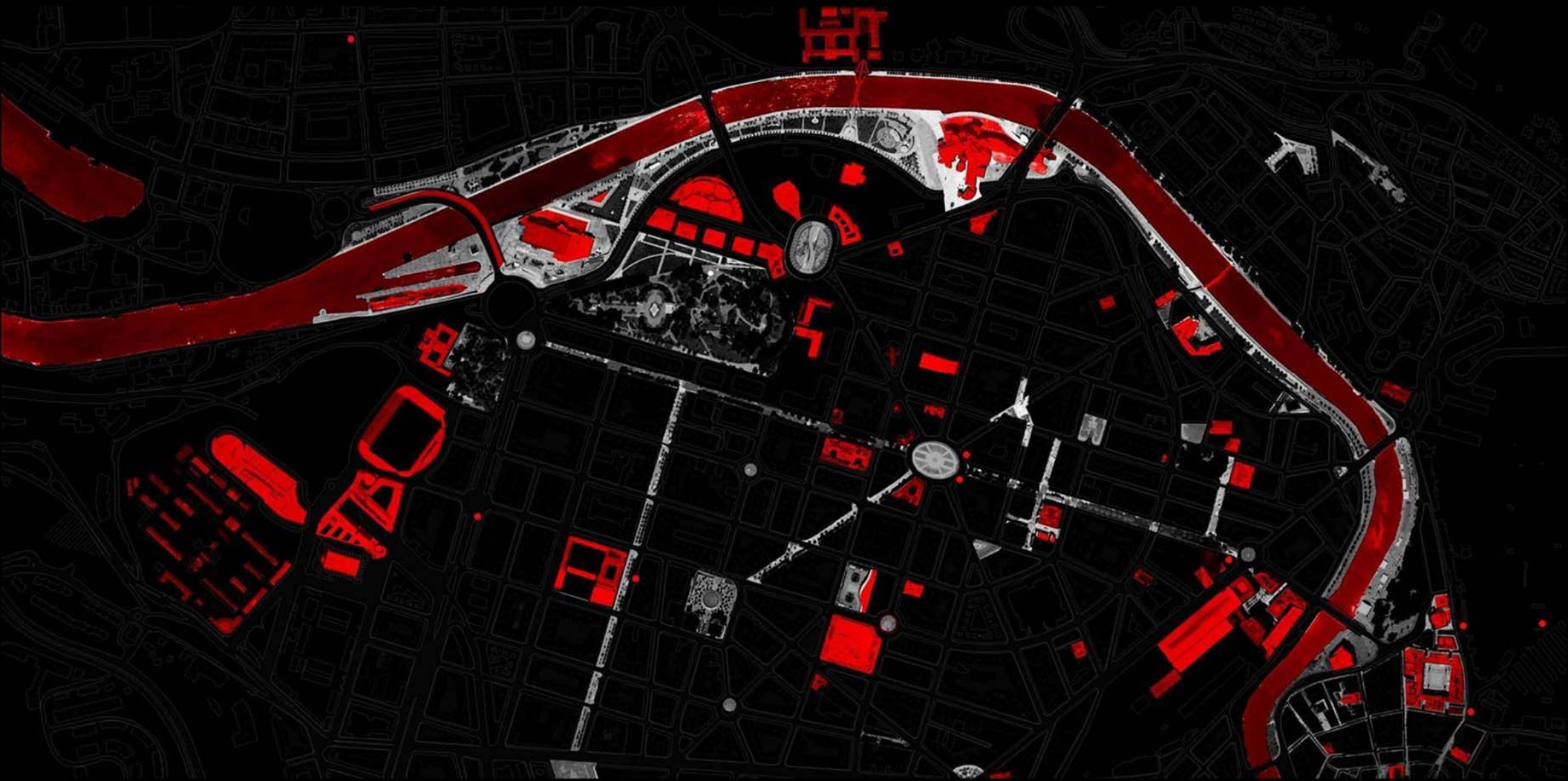
Cities as Ecosystems of Innovation

Digital Revolution

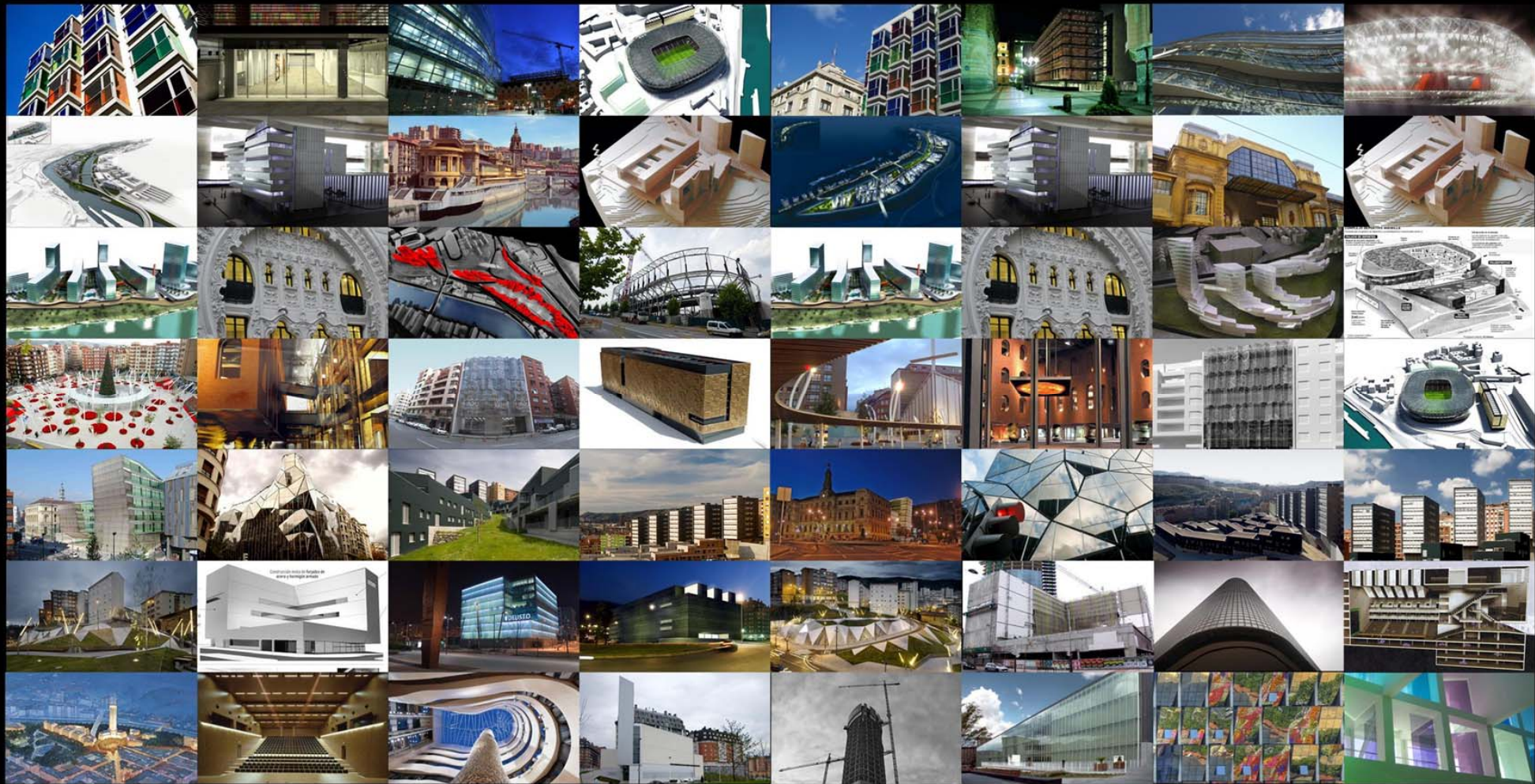


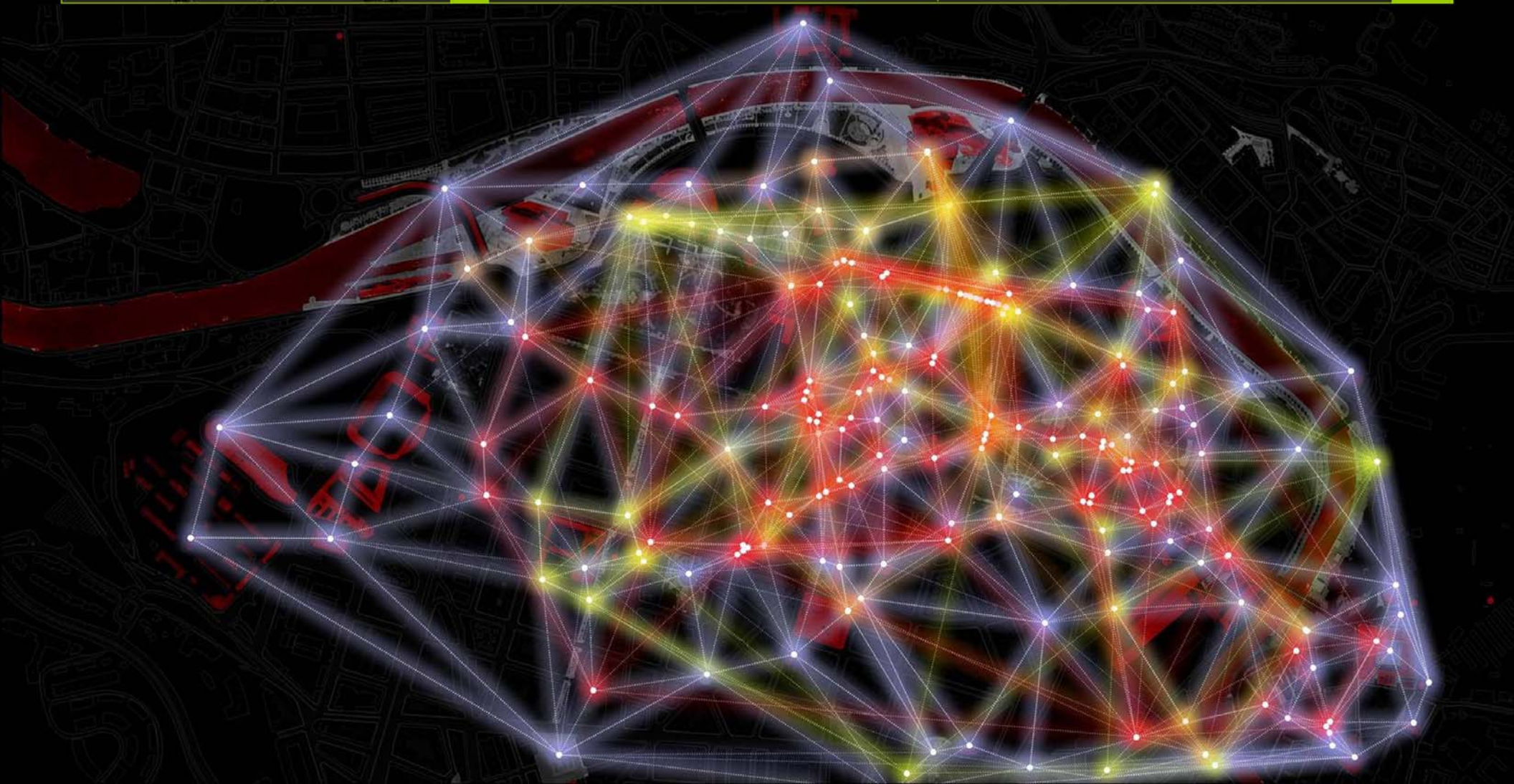






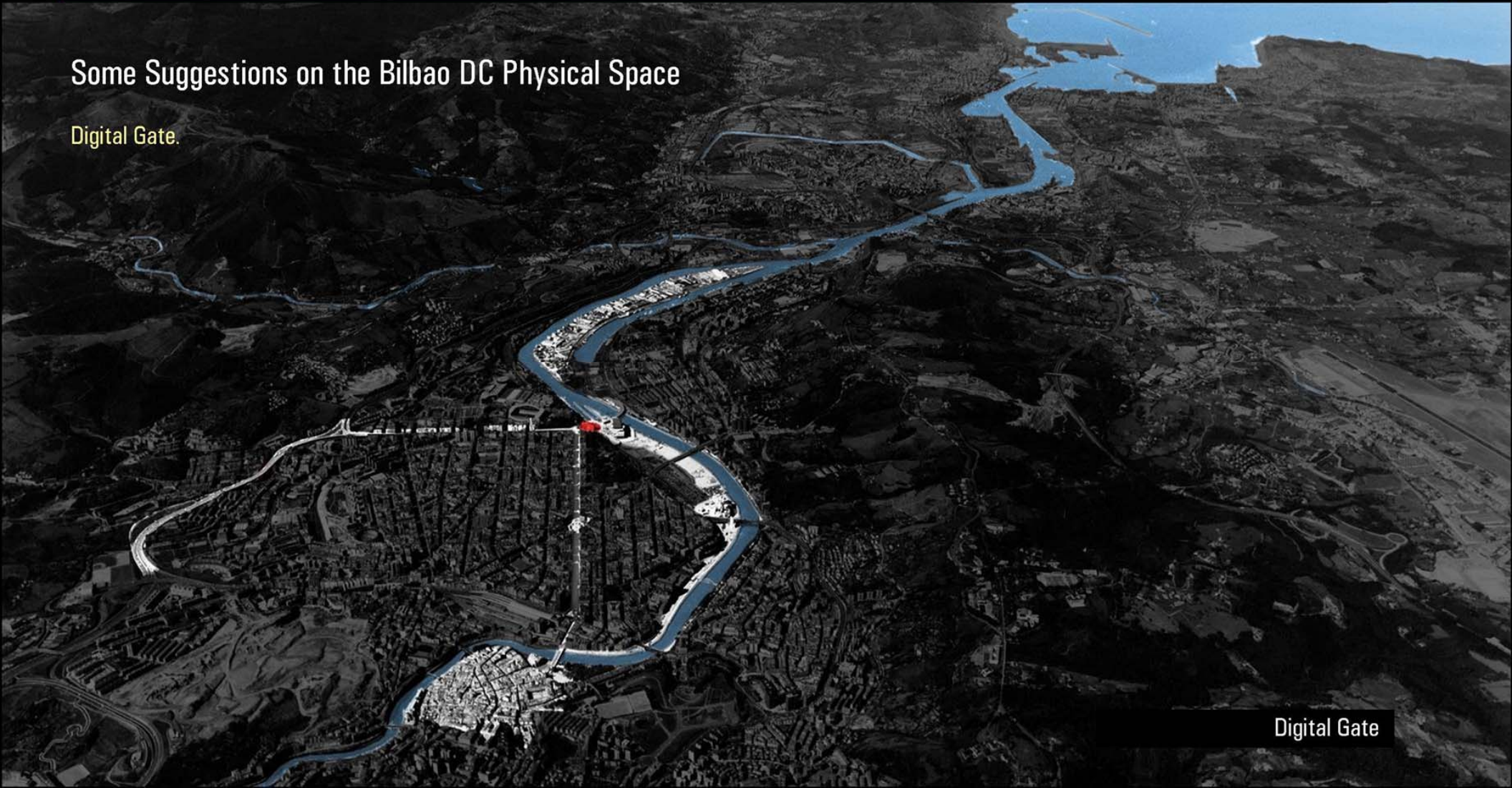






Some Suggestions on the Bilbao DC Physical Space

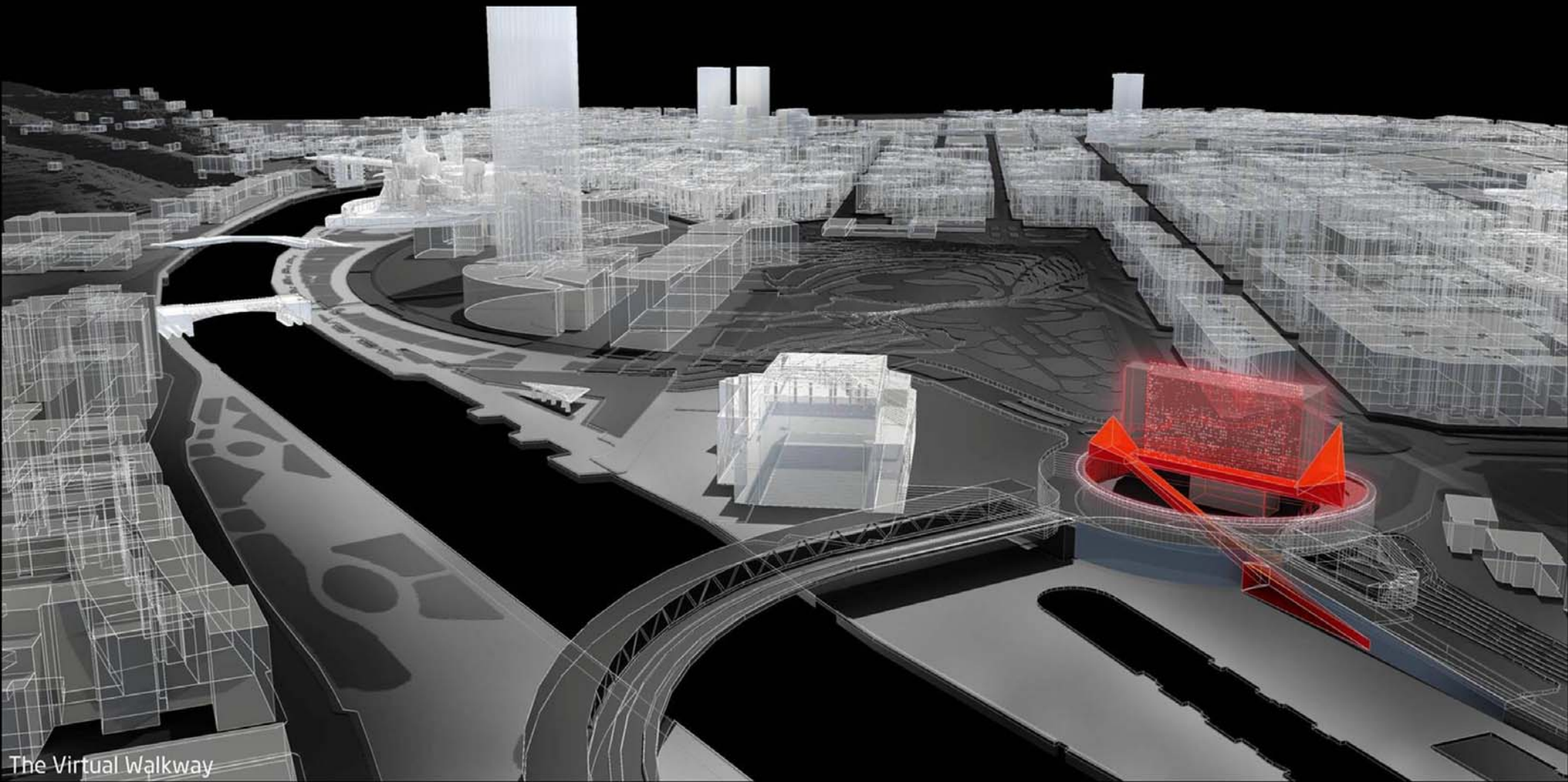
Digital Gate.

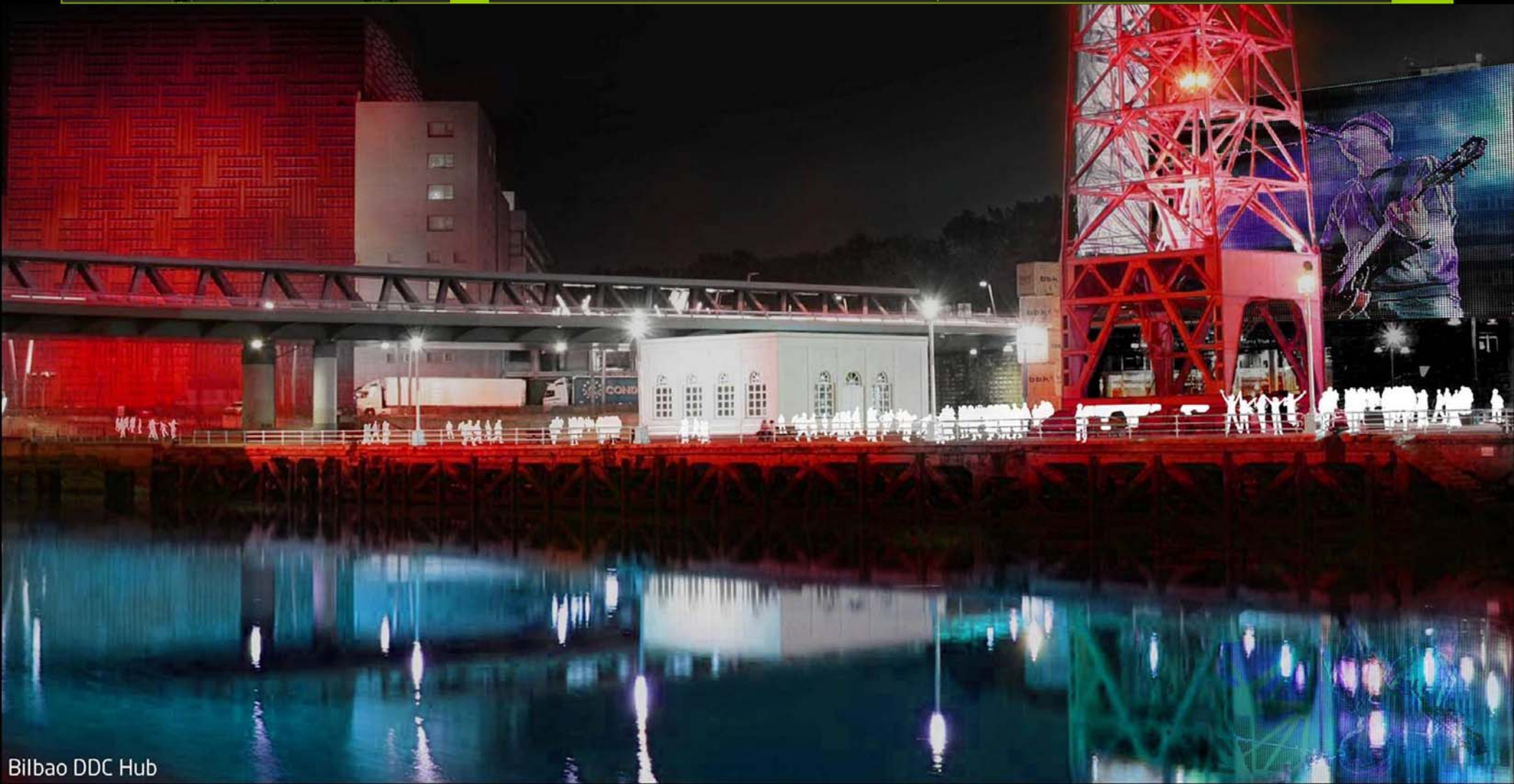


Digital Gate



Digital Gate

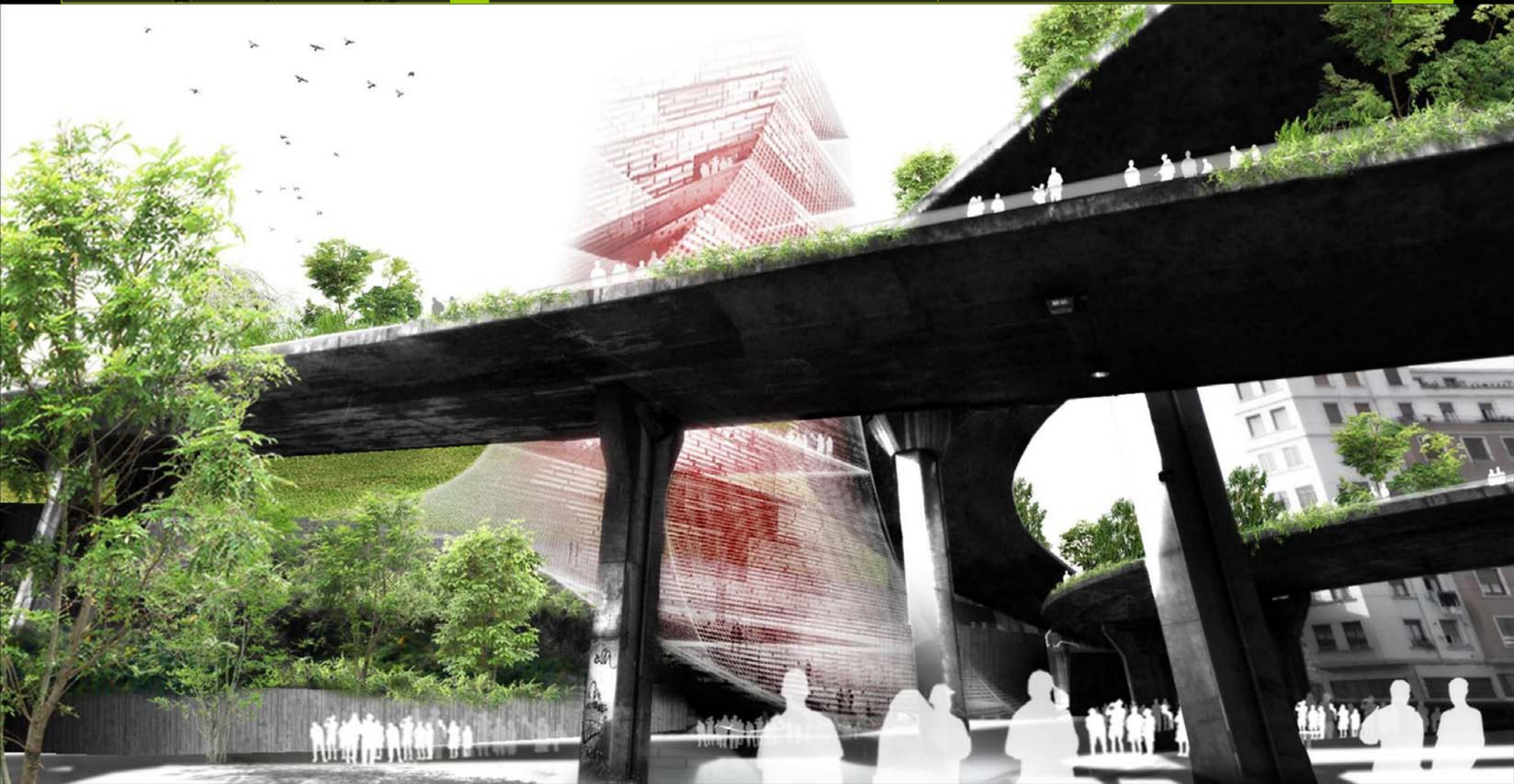






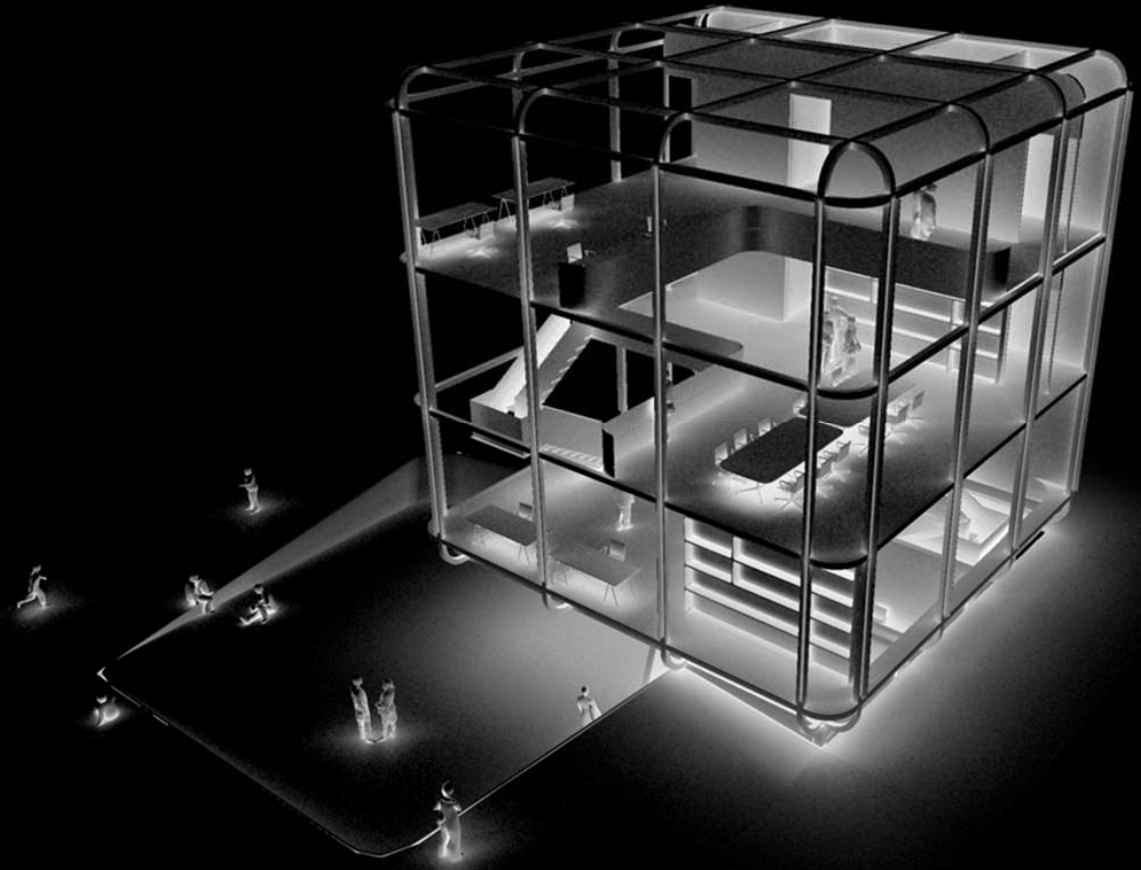


















Art and Technology. DESIGN

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

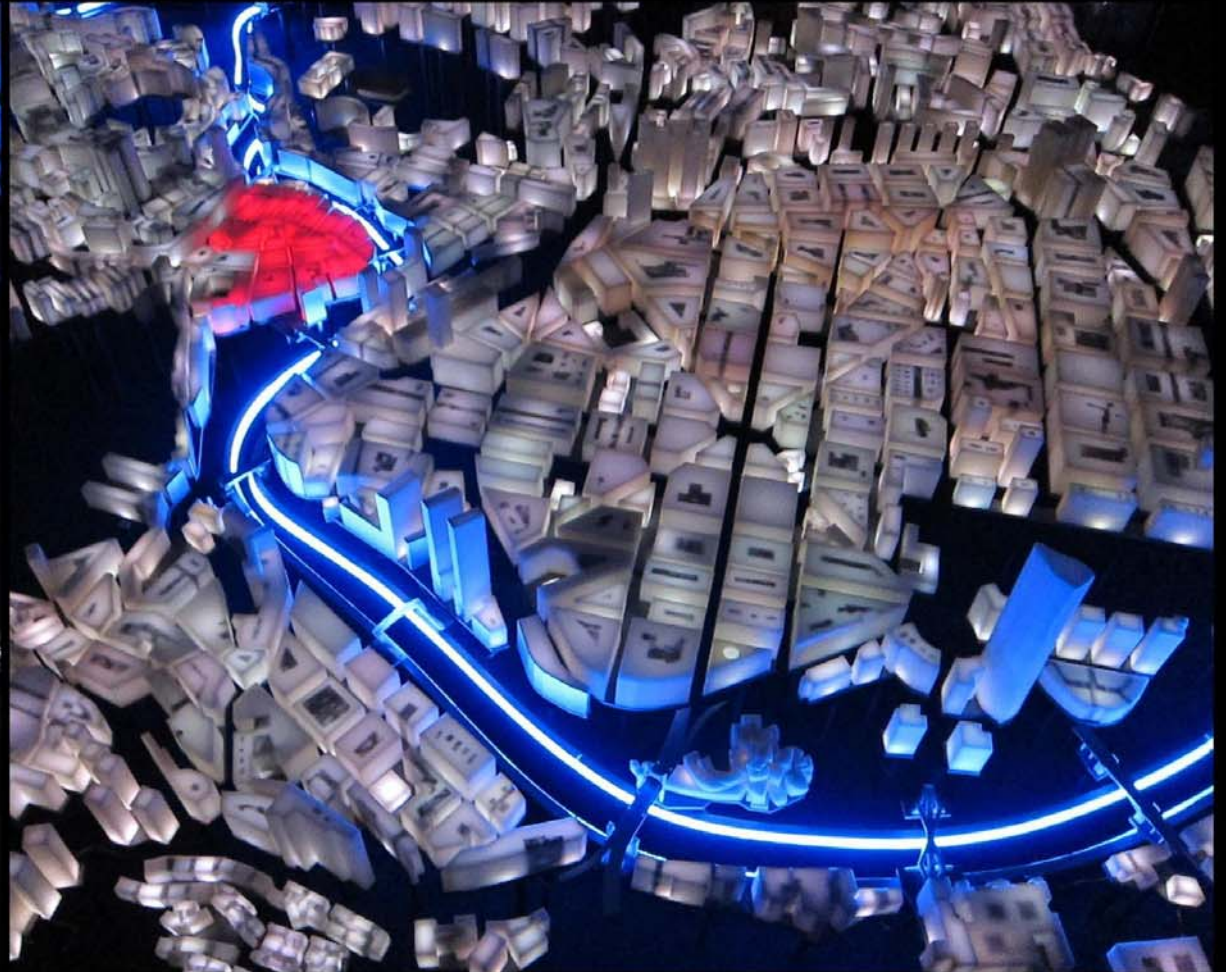


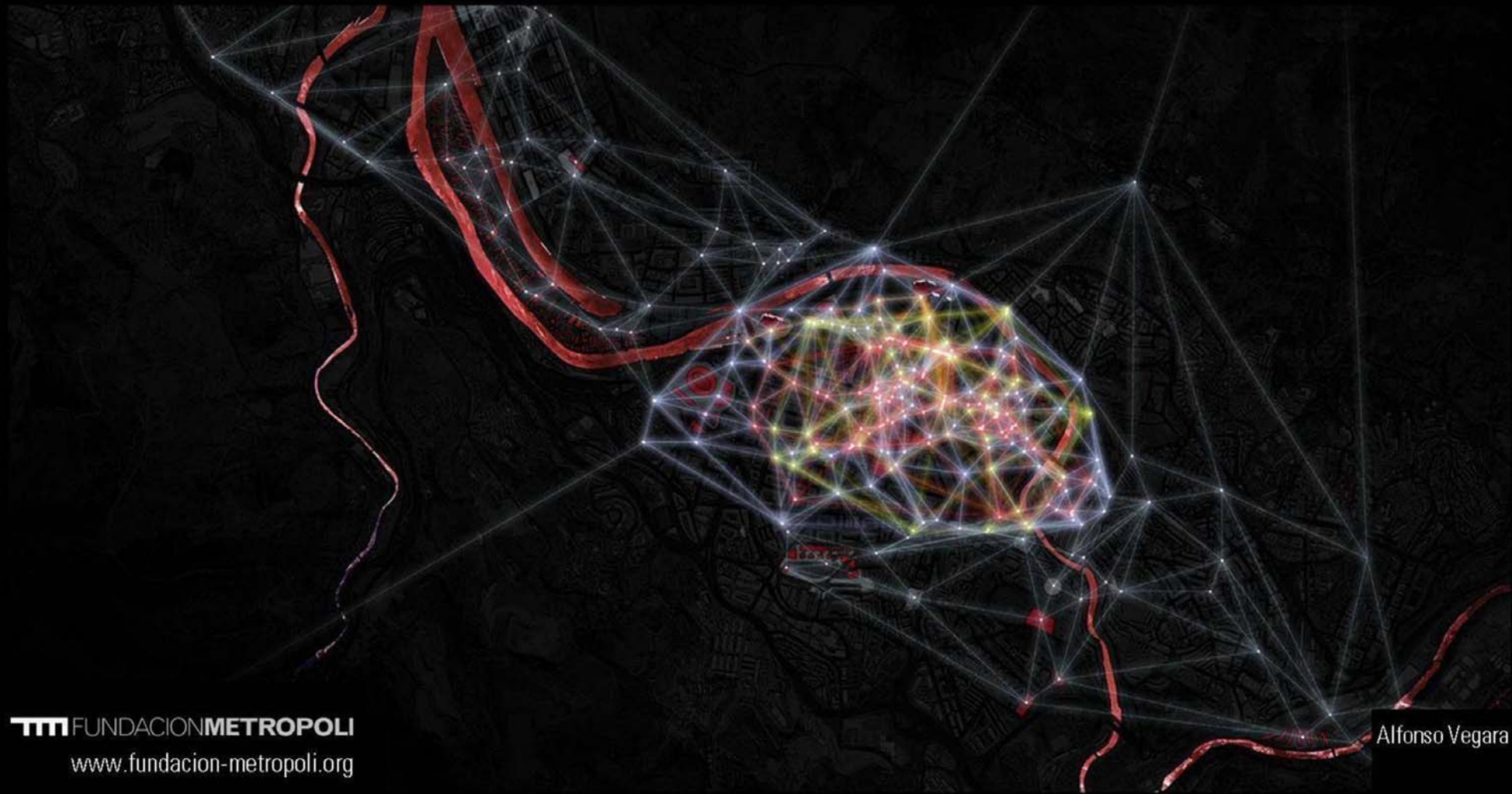
Eco-Technology and Urban Solutions

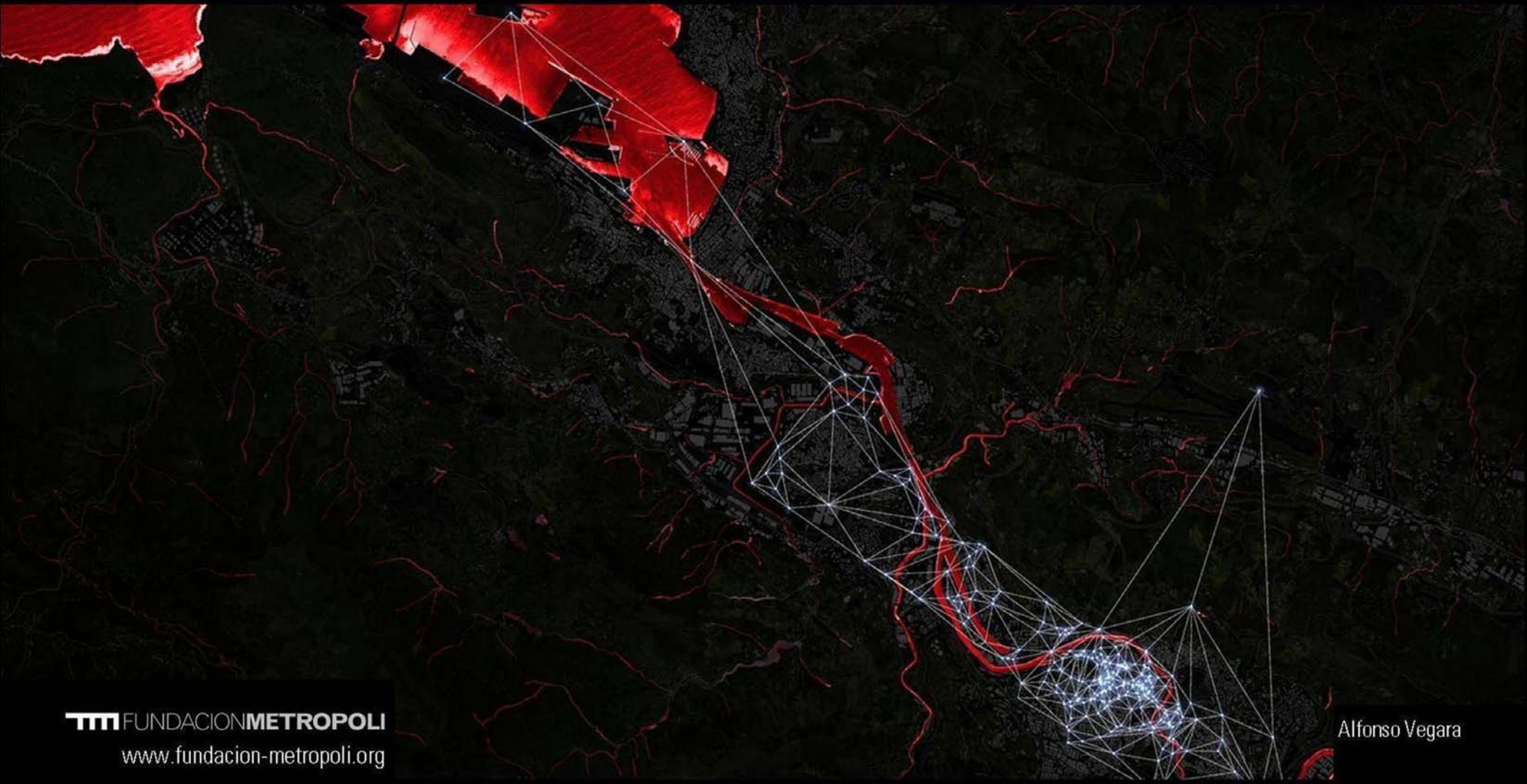
Architecture
Urban Design
Foundations
Bioclimatic Architecture
Zero Buildings
Alternative Energies Development
Sports Facilities
Eco-Construction
Eco-Technology
Engineering
Smart Districts
Research Centers
Hybrid Buildings
Urban Transportation
Sustainable Mobility

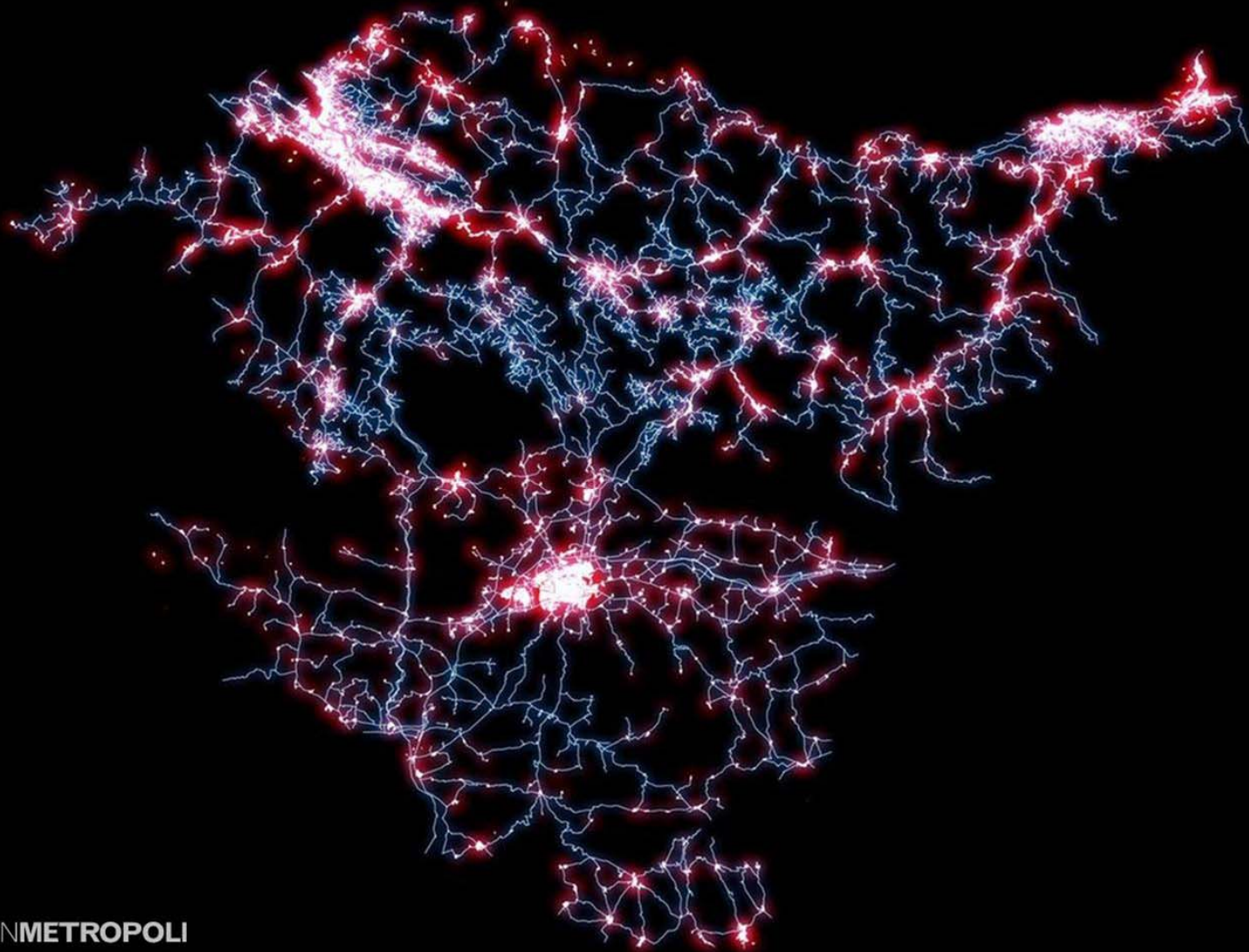


THREE INNOVATION AXIS

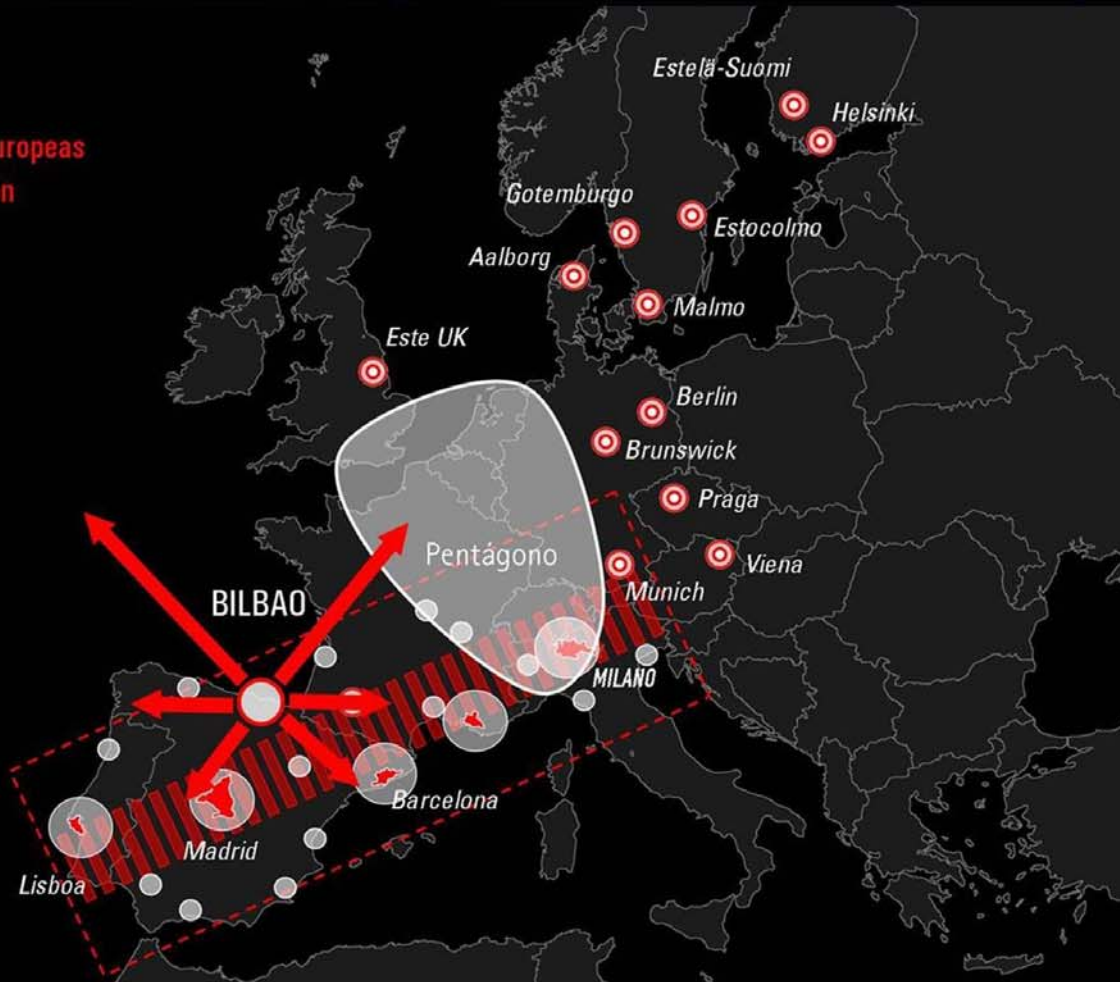




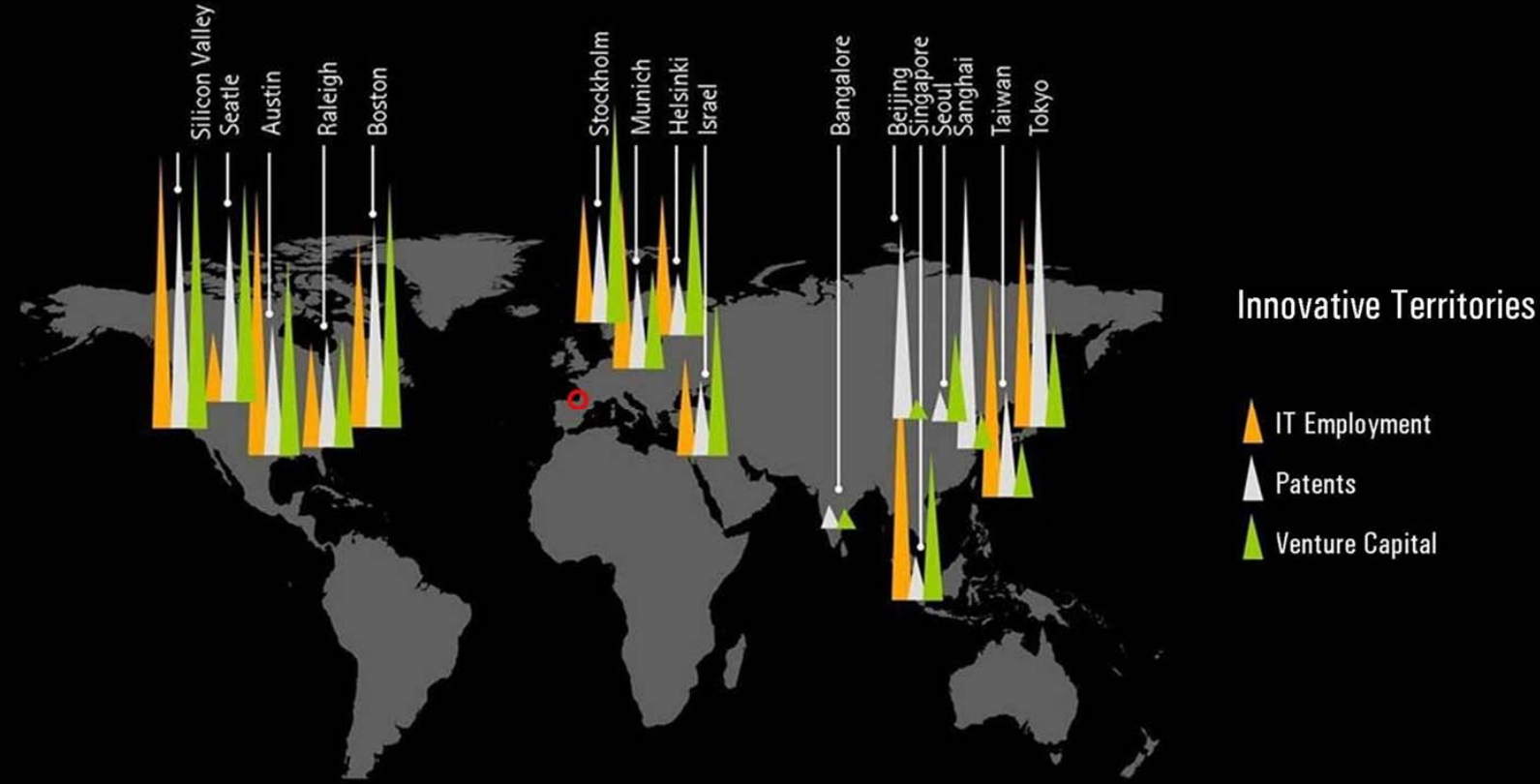




Regiones Europeas
Nueva Visión



Oportunidades de articulación regional
Protagonismo Europeo



Cities as Ecosystems of Innovation

BBNext. Zero

An Agency to promote innovation hubs within BilbaoNext

BB. Zero International

International Projection



Latin America



North of Africa

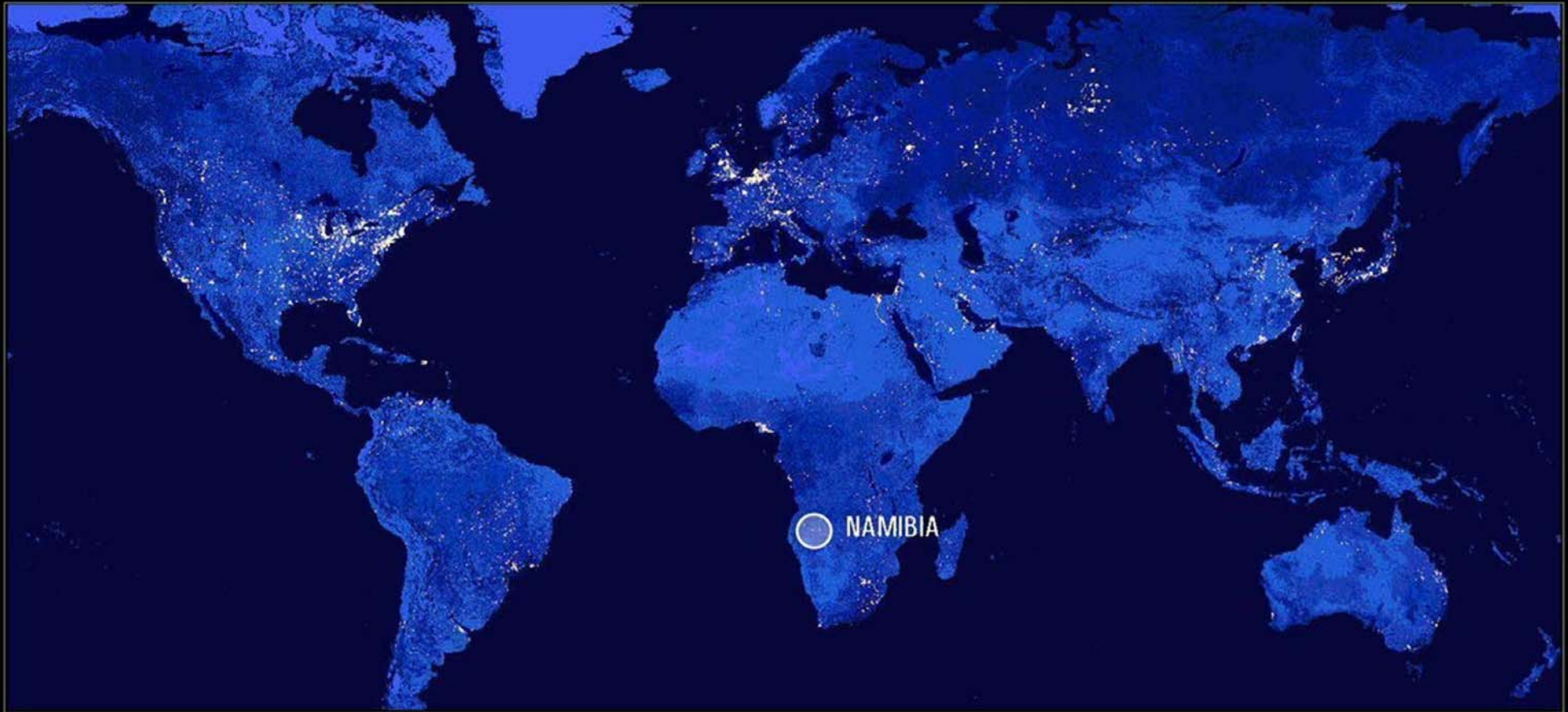


Asia



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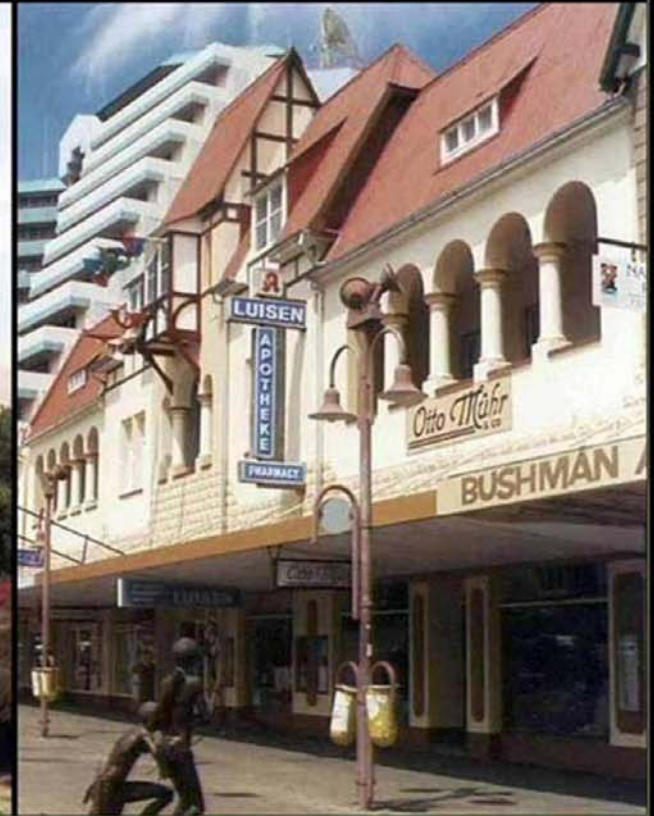
NAMIBIA



NAMIBIA



WINDHOEK



KATUTURA TOWNSHIP







THE COLOURS OF KATUTURA





INTERNATIONAL ARTISTS





KATUTURA
PROJECT







LAND AND TOURIST DESTINATION



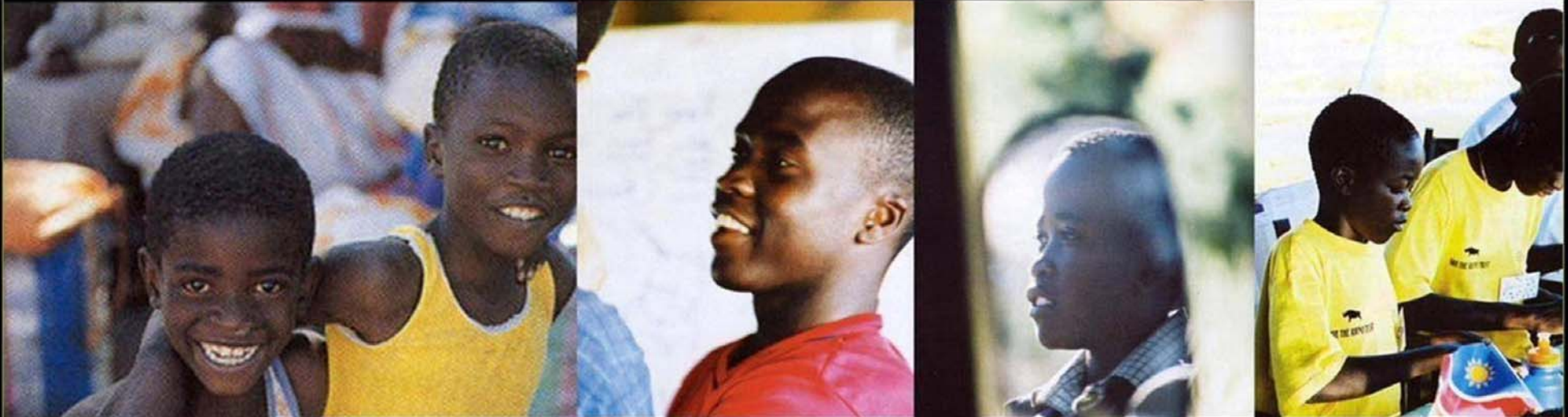
TRADITIONS



ARTS AND CRAFTS



PEOPLE



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