

CITIES IN EVOLUTION

THE POWER OF MEGA EVENTS

Alfonso Vegara. Fundación Metrópoli
av@fmetropoli.org

CITIES IN EVOLUTION

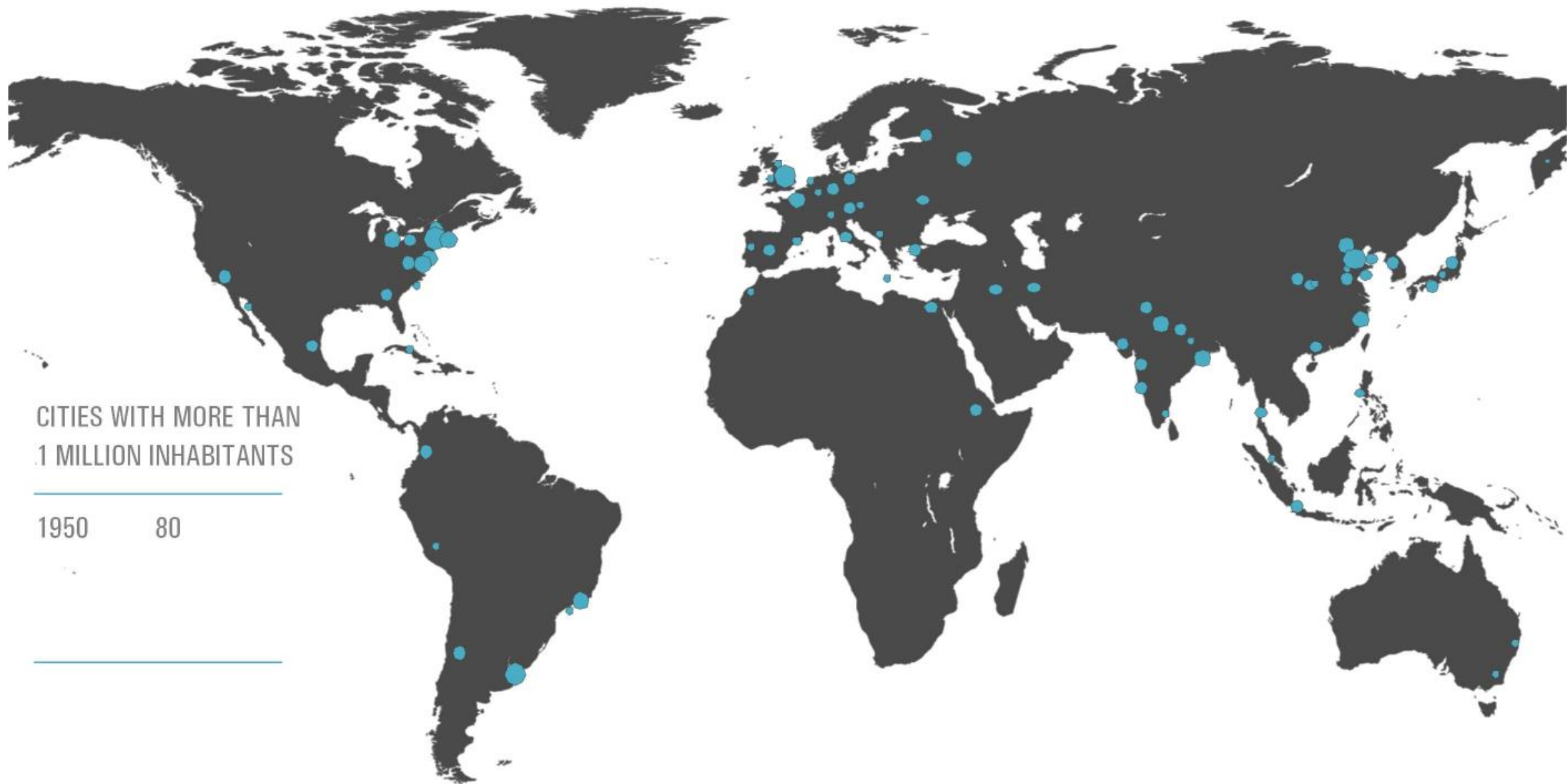
THE POWER OF MEGA EVENTS

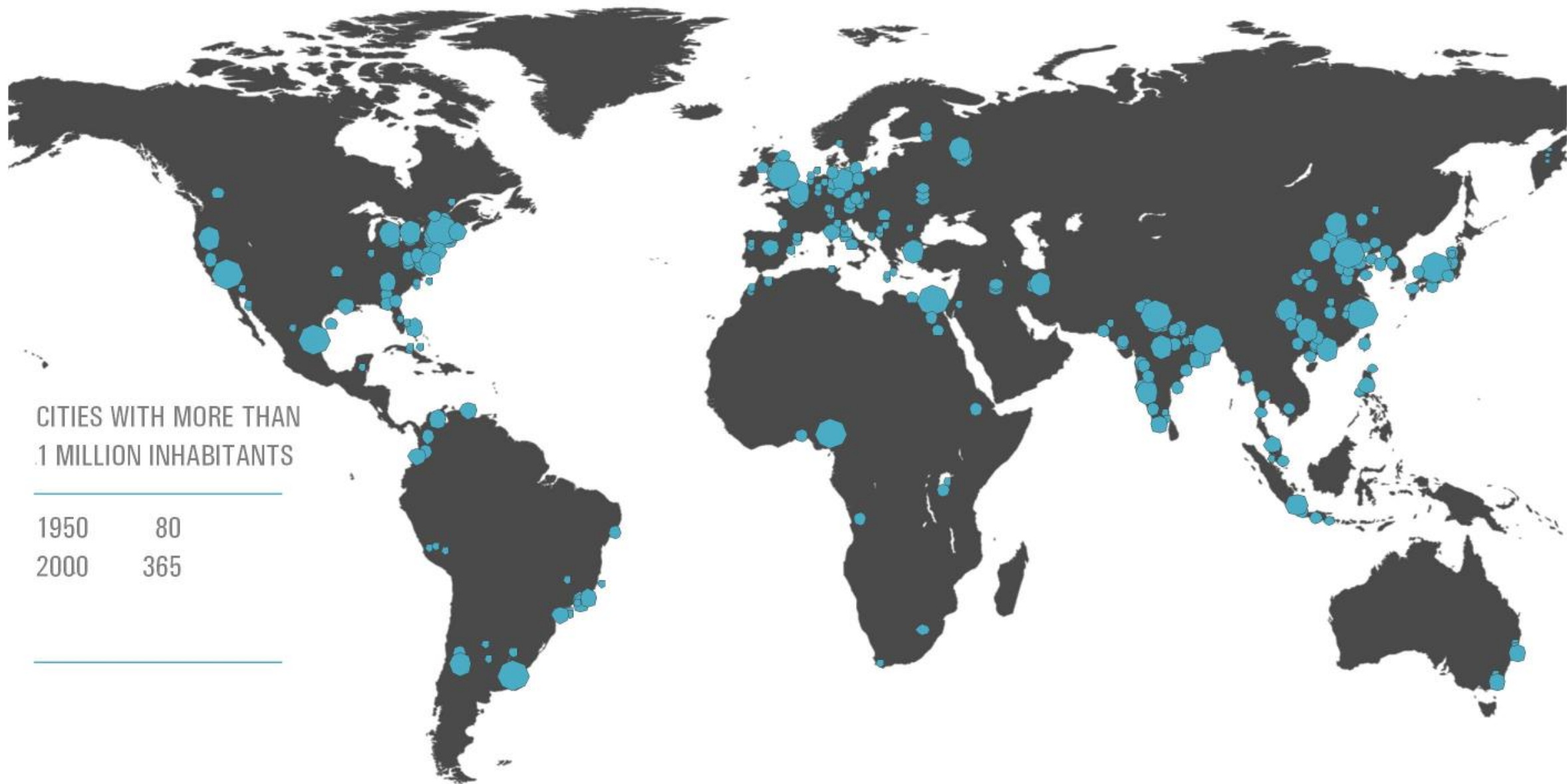
1. A World of Cities
2. Supercities and Territorial Diamonds
3. Colombian Peace Process and the Caribbean Diamond
4. 25 Years after Barcelona Olympics
5. Tokyo 2020. Technology for Future Cities

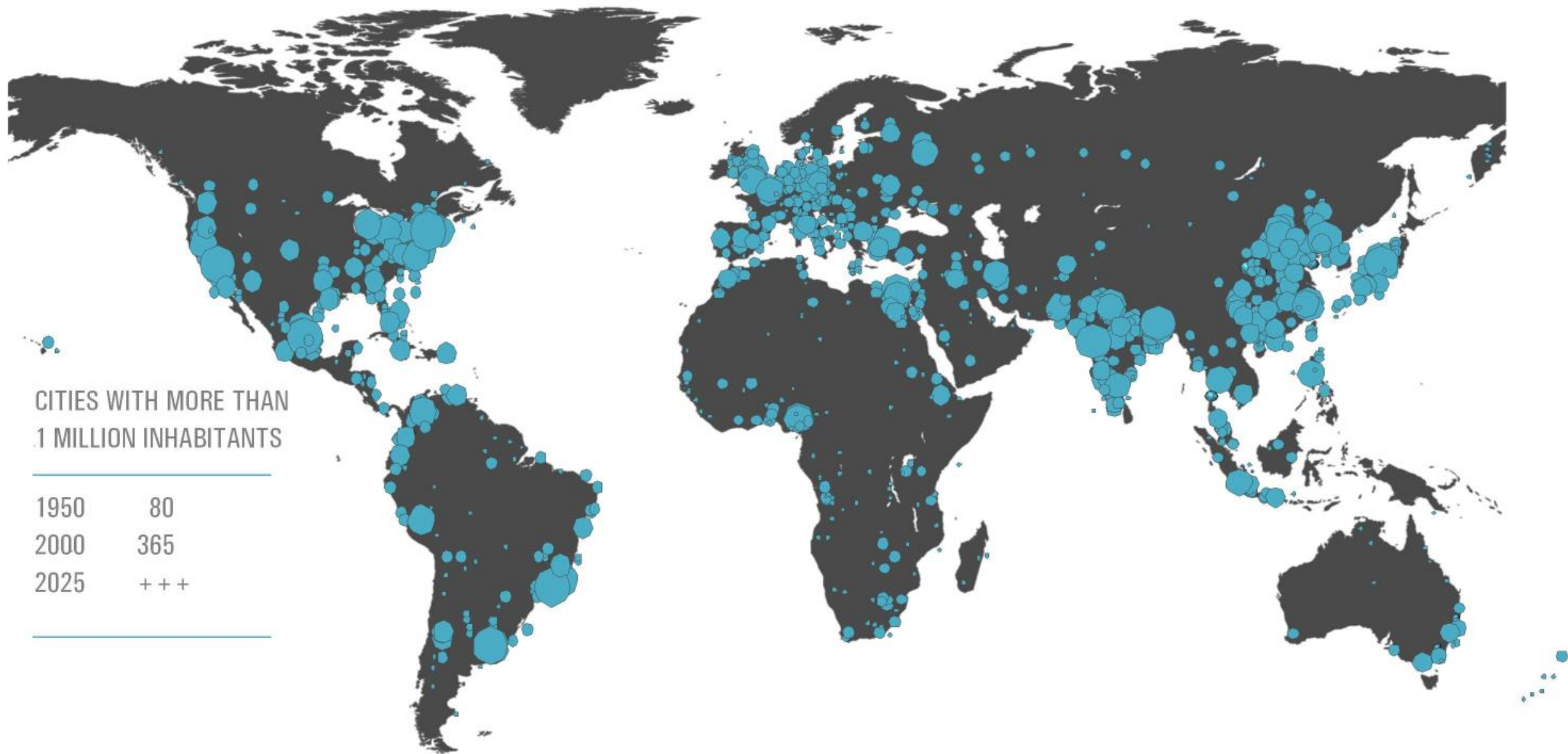
CITIES IN EVOLUTION

THE POWER OF MEGA EVENTS

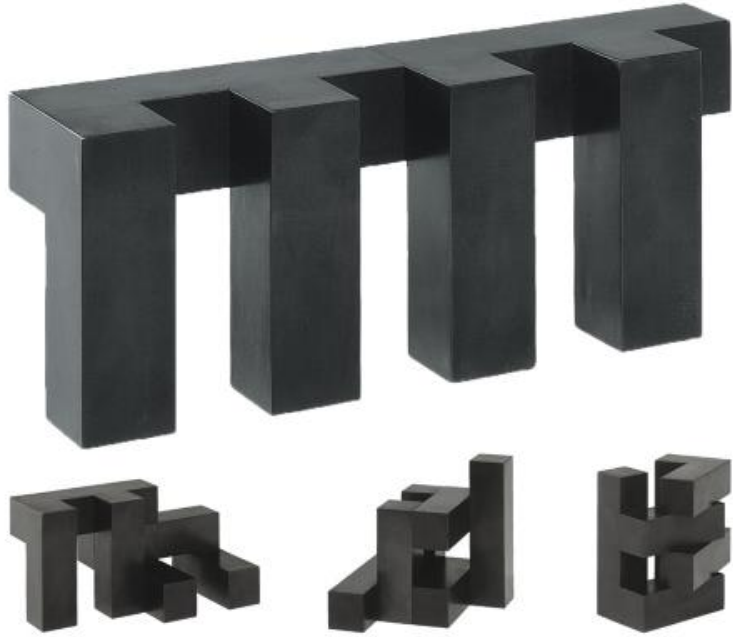
1. **A World of Cities**
2. Supercities and Territorial Diamonds
3. Colombian Peace Process and the Caribbean Diamond
4. 25 Years after Barcelona Olympics
5. Tokyo 2020. Technology for Future Cities





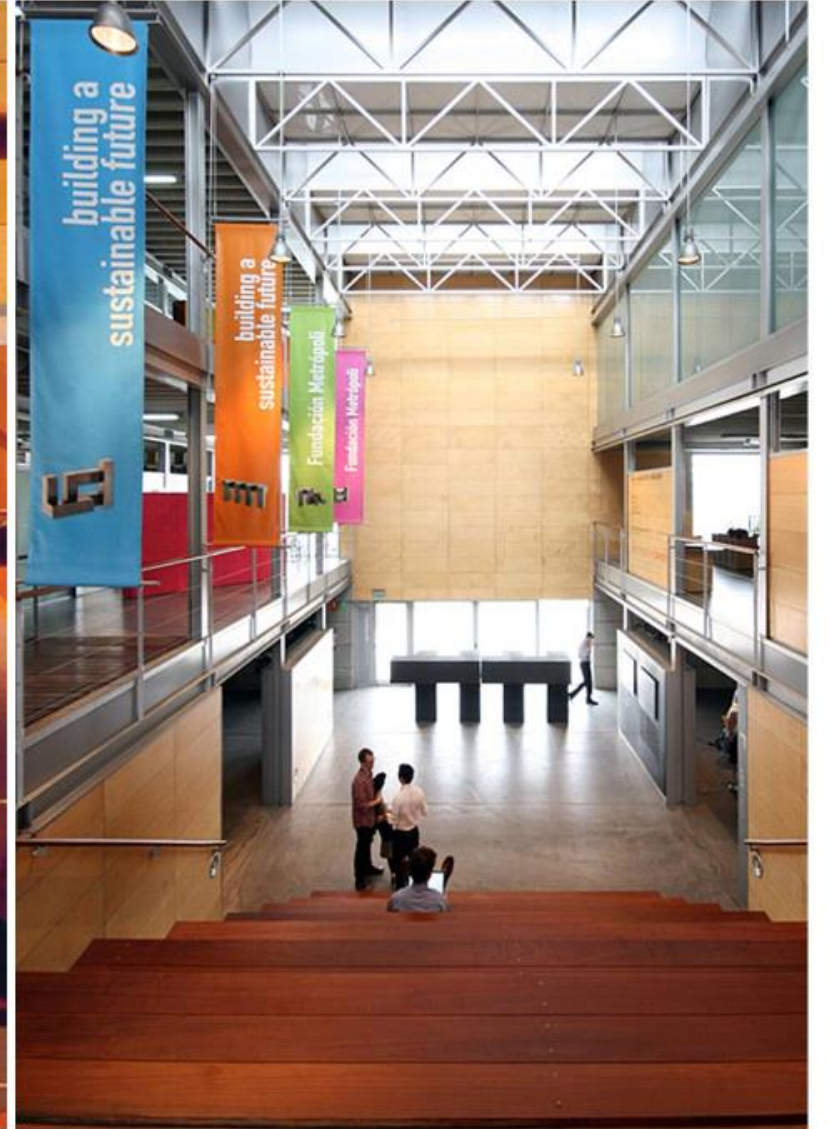
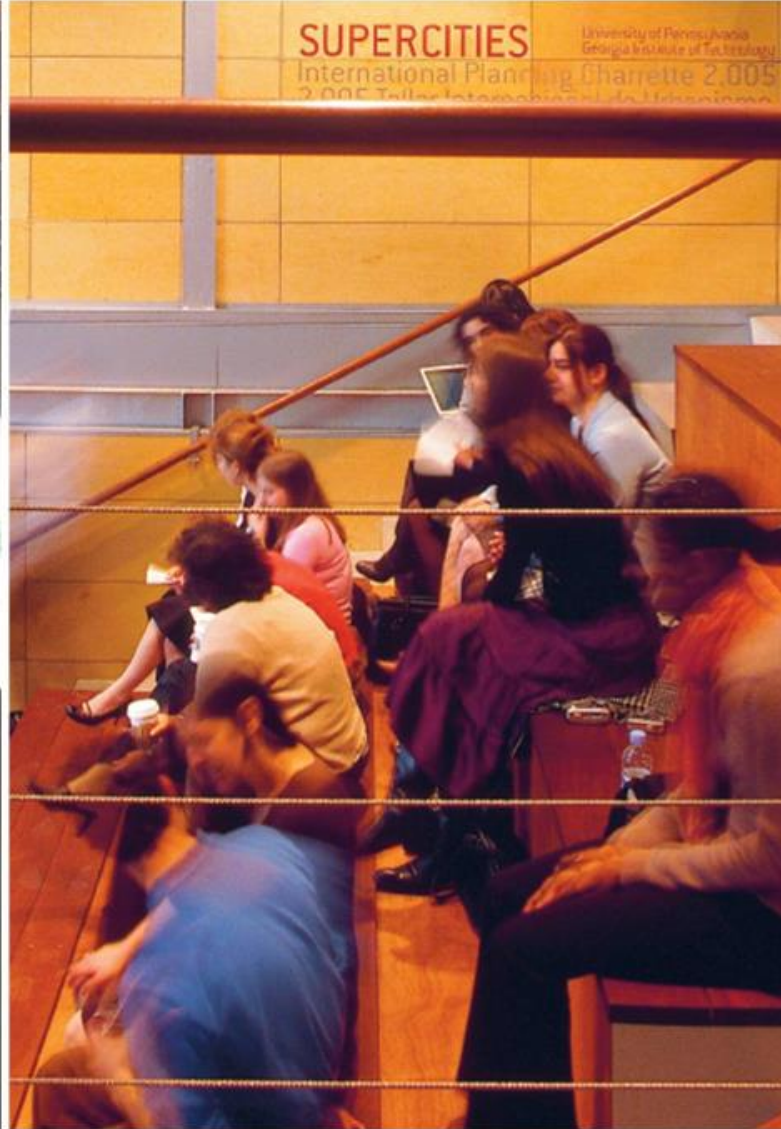


What if cities could change our world?



Fundación Metròpoli is an international center of innovation in cities and regions...

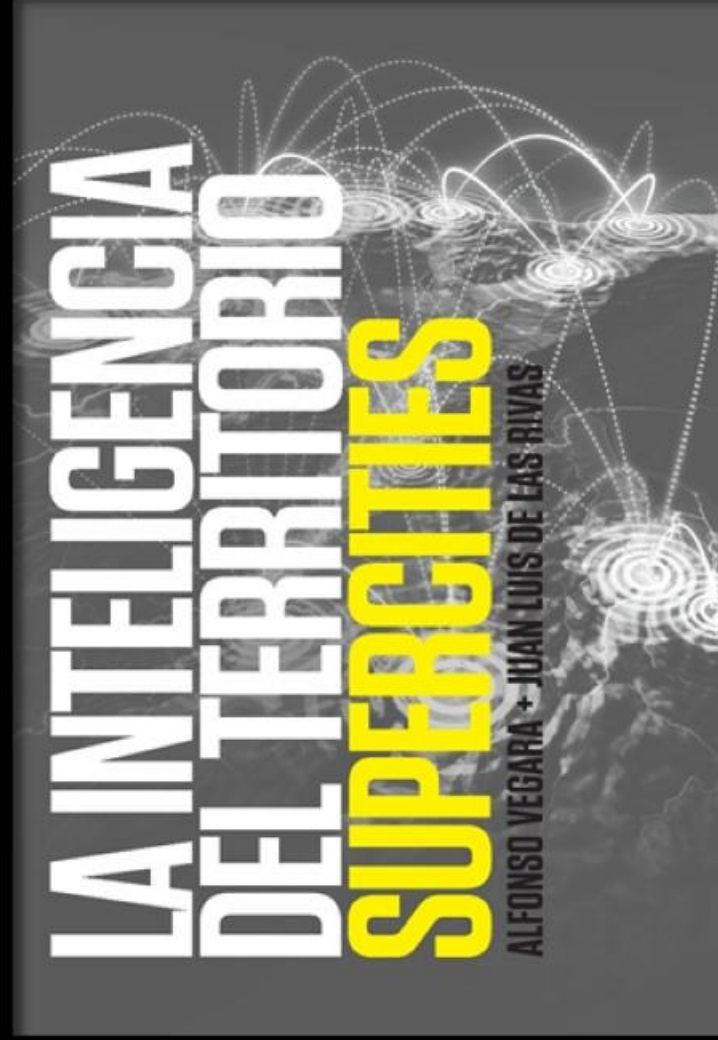






BETTERING OUR WORLD CITY BY CITY





CITIES IN EVOLUTION

THE POWER OF MEGA EVENTS

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NEW SCALE OF CITIES

Hacia un Modelo Territorial Policéntrico

Las ciudades. Espacios clave para el desarrollo y la equidad

Ciudades del mundo con más
de 1 millón de habitantes


1950	80
2000	365
2020	+++

Fuente: PNUD (Programa de las Naciones Unidas para el Desarrollo)

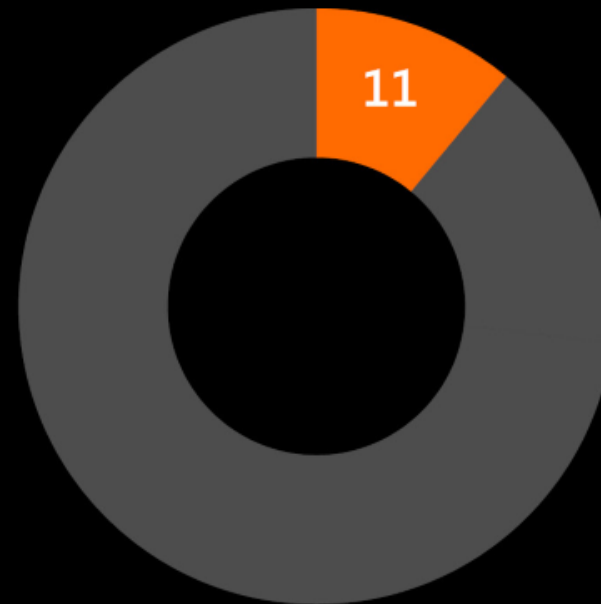
Hacia un Modelo Territorial Policéntrico

Ciudades. Espacios clave para el desarrollo y la equidad

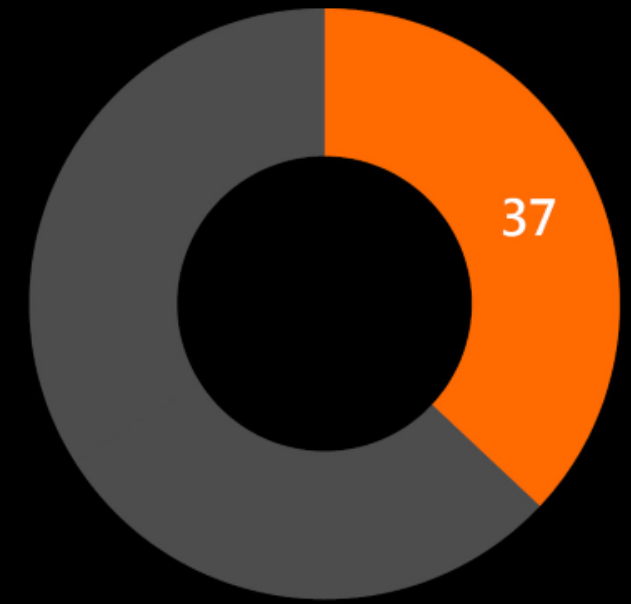
Contribución al desarrollo económico
(en % del PIB mundial) y previsión según el
tipo de ciudad

 Ciudades medias en
países emergentes

PIB en 2007



PIB previsión 2025
100%=\$54.9 trillones

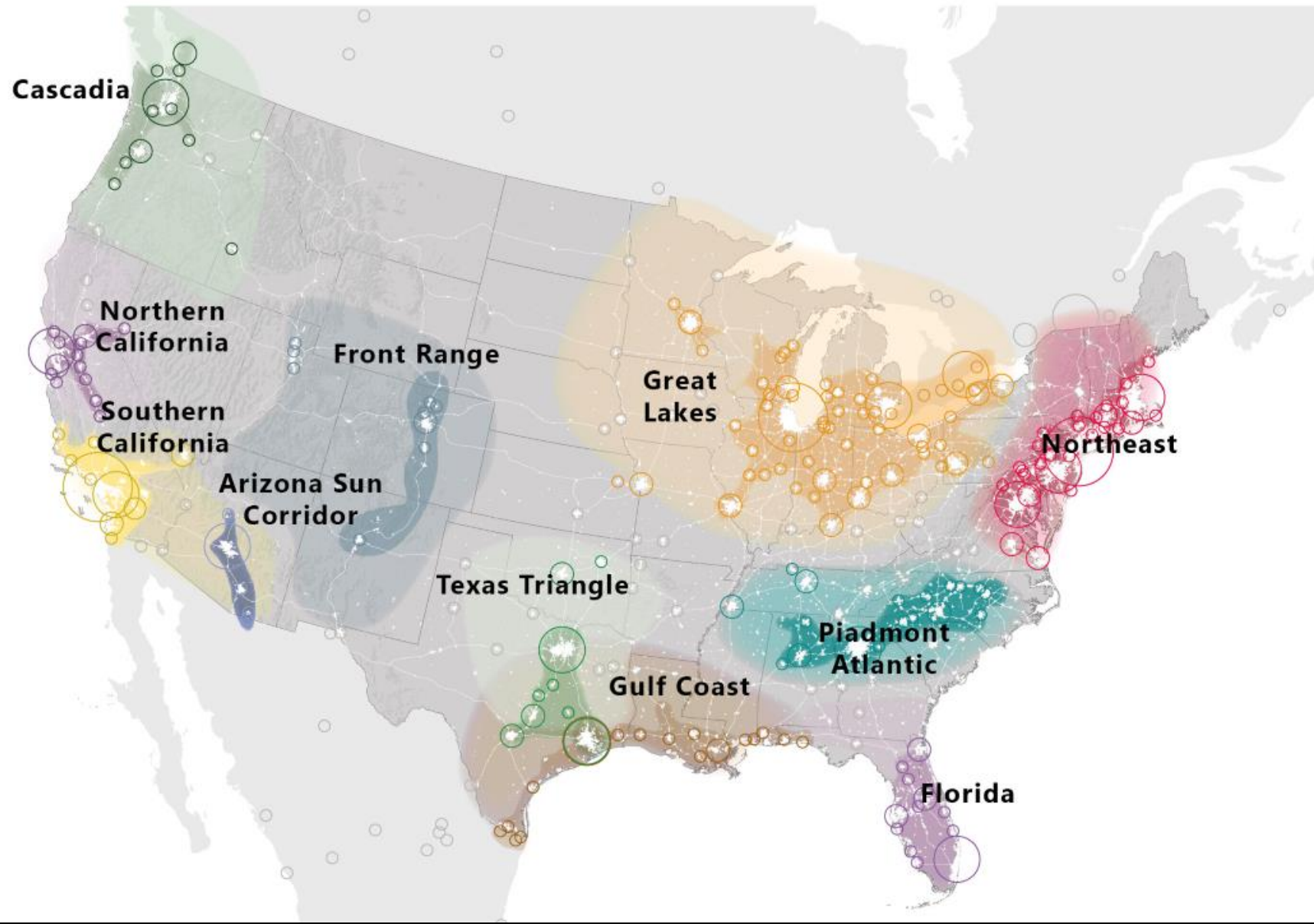


Ciudad Media: población entre 150.000 y 5.000.000 hab.

En dólares constantes de 2007

Hacia un Modelo Territorial Policéntrico

Megacities América 2050



SUPERCITIES

NORTHEAST ATLANTIC MEGAREGION



*Diamante del
Río de La Plata*

POBLACIONES SUDAMÉRICA

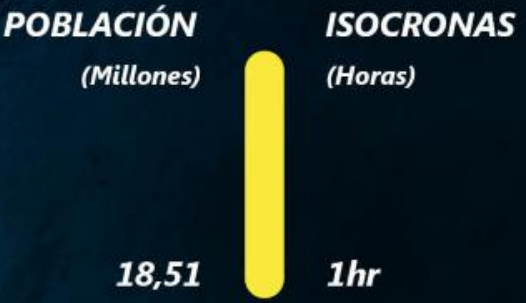


Rosario
Buenos Aires
Montevideo
Punta del Este
Mar del Plata

*Diamante del
Río de La Plata*

Diamante • RÍO DE LA PLATA

Isocronas 1hr



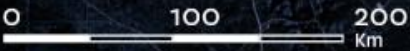
18,51 millones

Diamante • RÍO DE LA PLATA

Isocronas 2hr

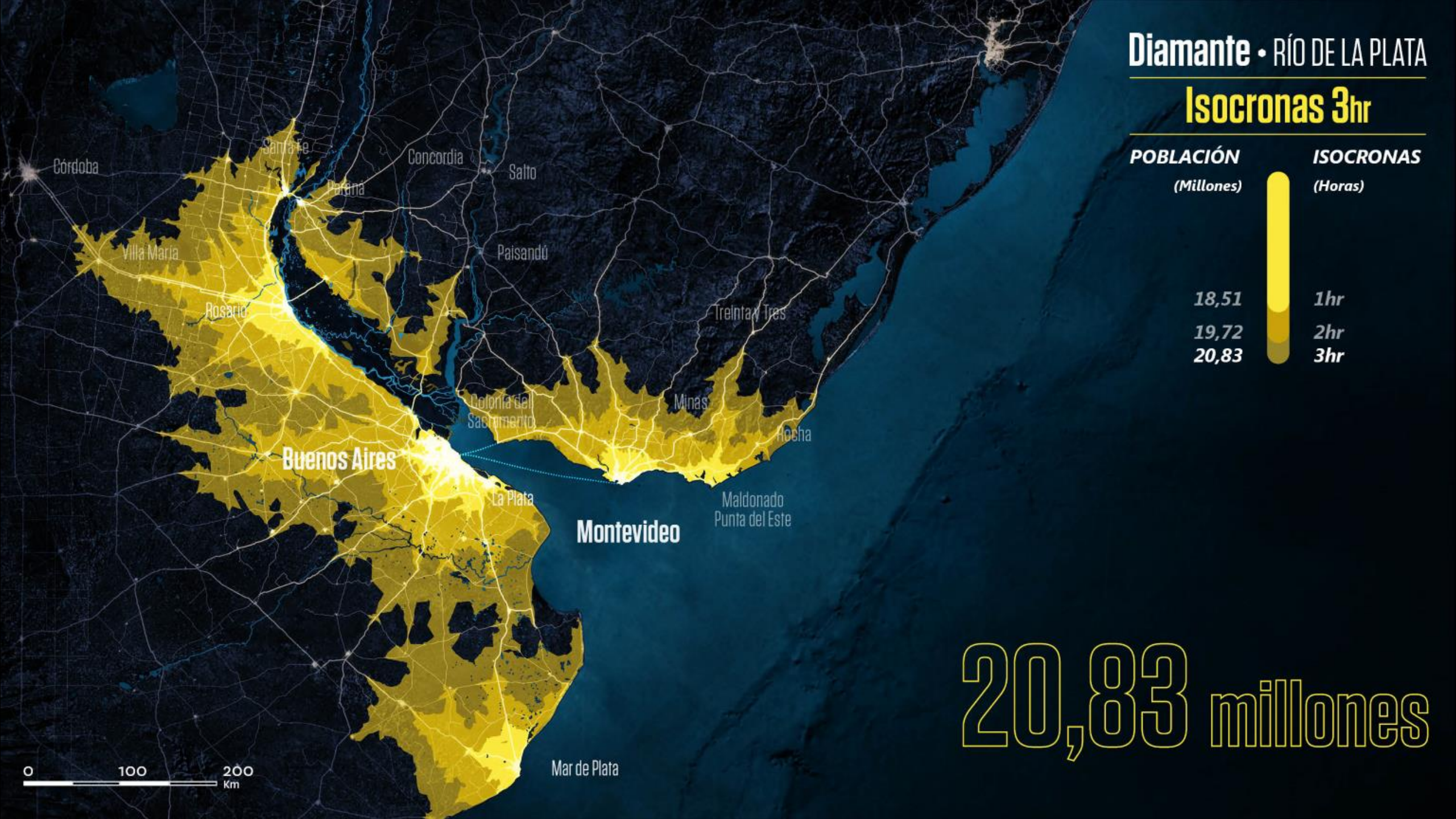


19,72 millones



Diamante • RÍO DE LA PLATA

Isocronas 3hr



20,83 millones

0 100 200 Km

Diamante • RÍO DE LA PLATA

Sistema Urbano





Diamante

Río de la Plata

ARGENTINA+URUGUAY

Territorial Context

Continental Joints



EUROPE

AFRICA

EUROPE

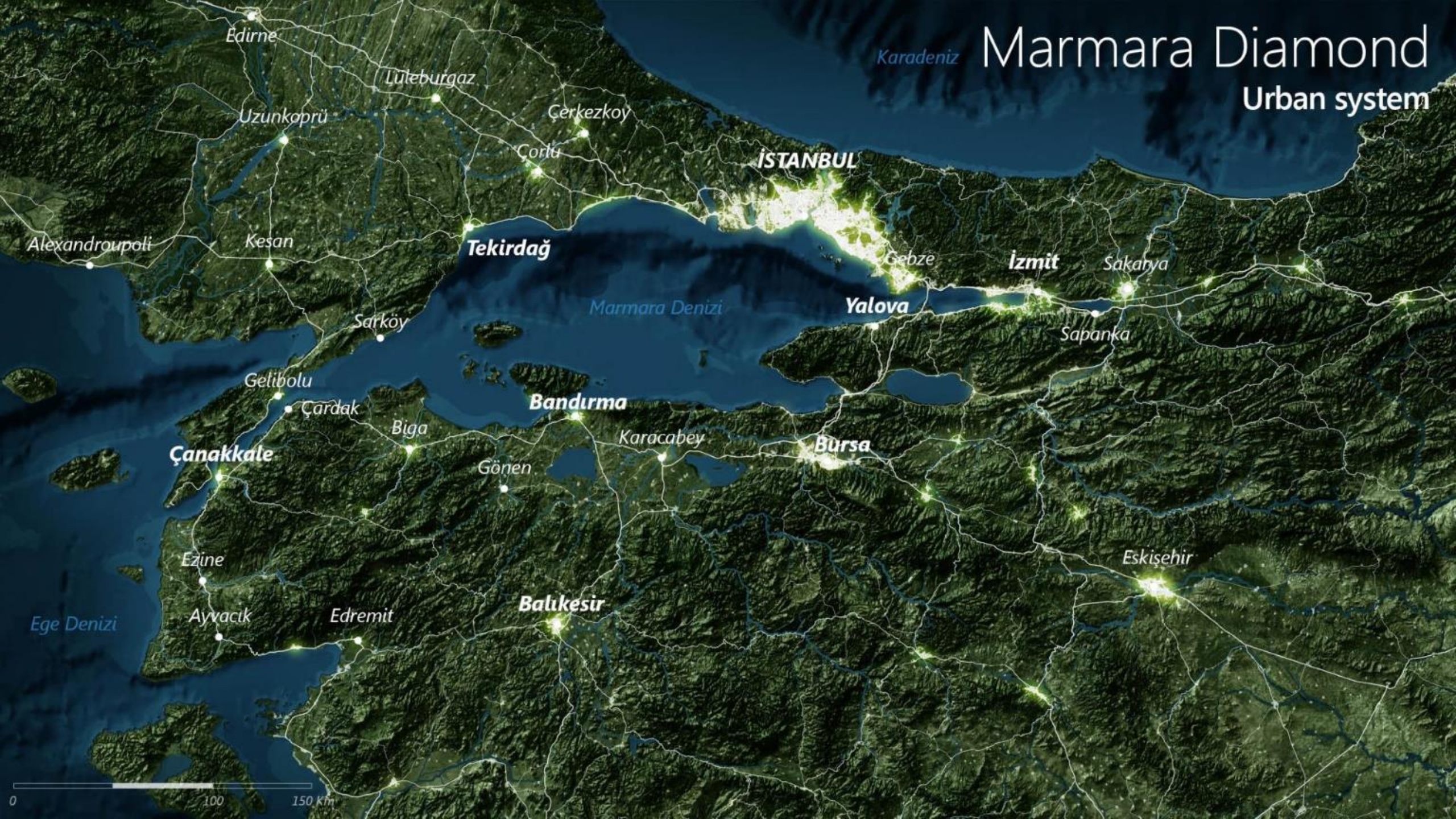
ASIA

ASIA

AFRICA

Marmara Diamond

Urban system



İstanbul Coast

Location

KARADENİZ



Büyükçekmece

Maslak

İstanbul

Adalar

Gebze

Izmit

Yalova

MARMARA DENİZİ



İstanbul Coast

İstanbul Boğazı

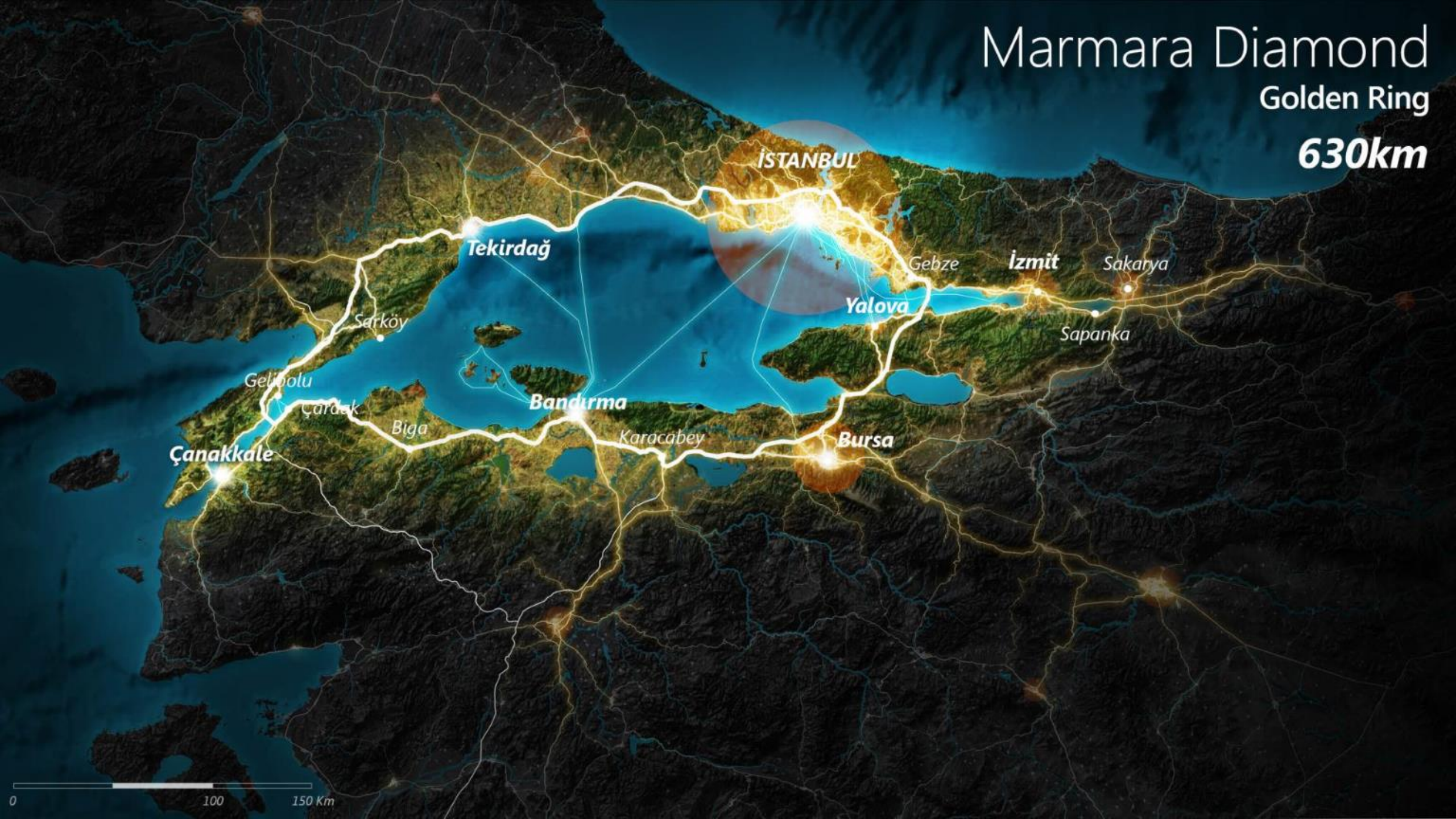


GAMINA

Marmara Diamond

Golden Ring

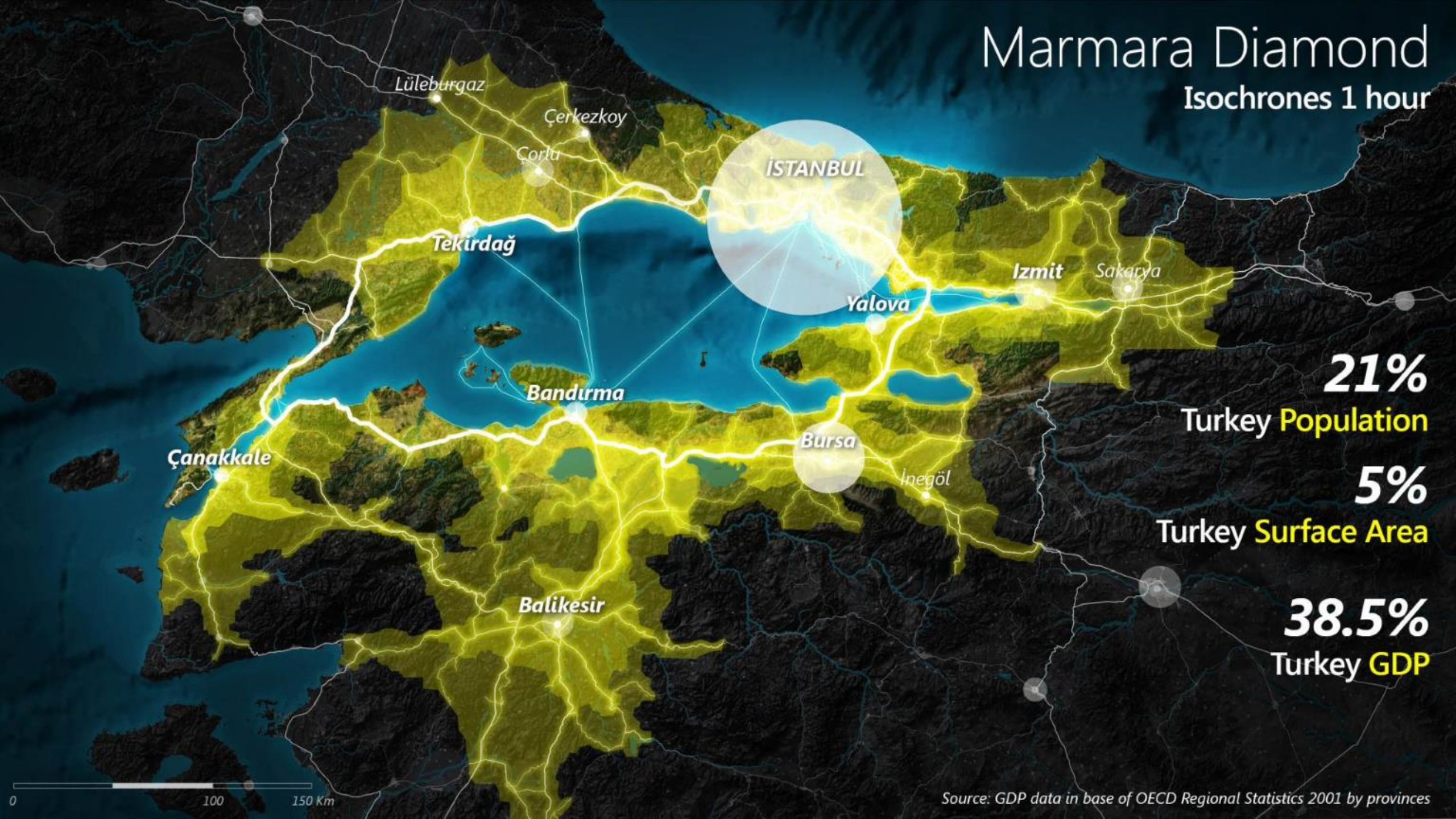
630km



0 100 150 Km

Marmara Diamond

Isochrones 1 hour



21%

Turkey **Population**

5%

Turkey **Surface Area**

38.5%

Turkey **GDP**



Sea of Marmara Diamond

0 100 150 Km

Marmara Diamond

Marmara Ring



İSTANBUL

Tekirdağ

Izmit

Yalova

Bandırma

Bursa

Çanakkale

0 100 150 Km



BUILDING
THE
EUROPEAN
DIAGONAL

Diagonal

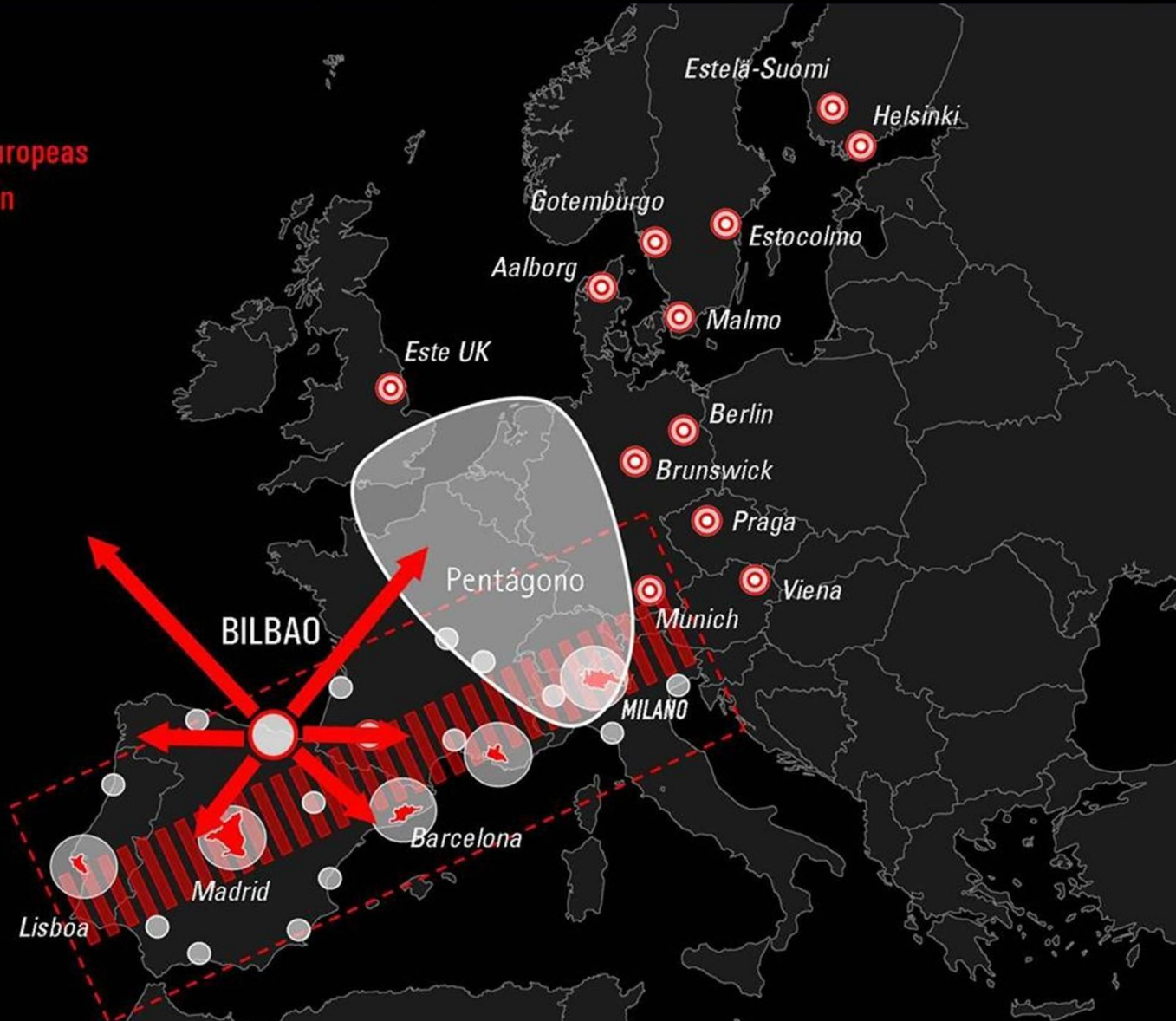
TTM FUNDACION METROPOLI

EUROPEAN DIAGONAL

Super City Hubs and Satellites



Regiones Europeas
Nueva Visión



Oportunidades de articulación regional
Protagonismo Europeo



Bilbao GUGGENHEIM ++

Shanghai World Expo 2010
Better City, Better Life

the **floods** of
1983



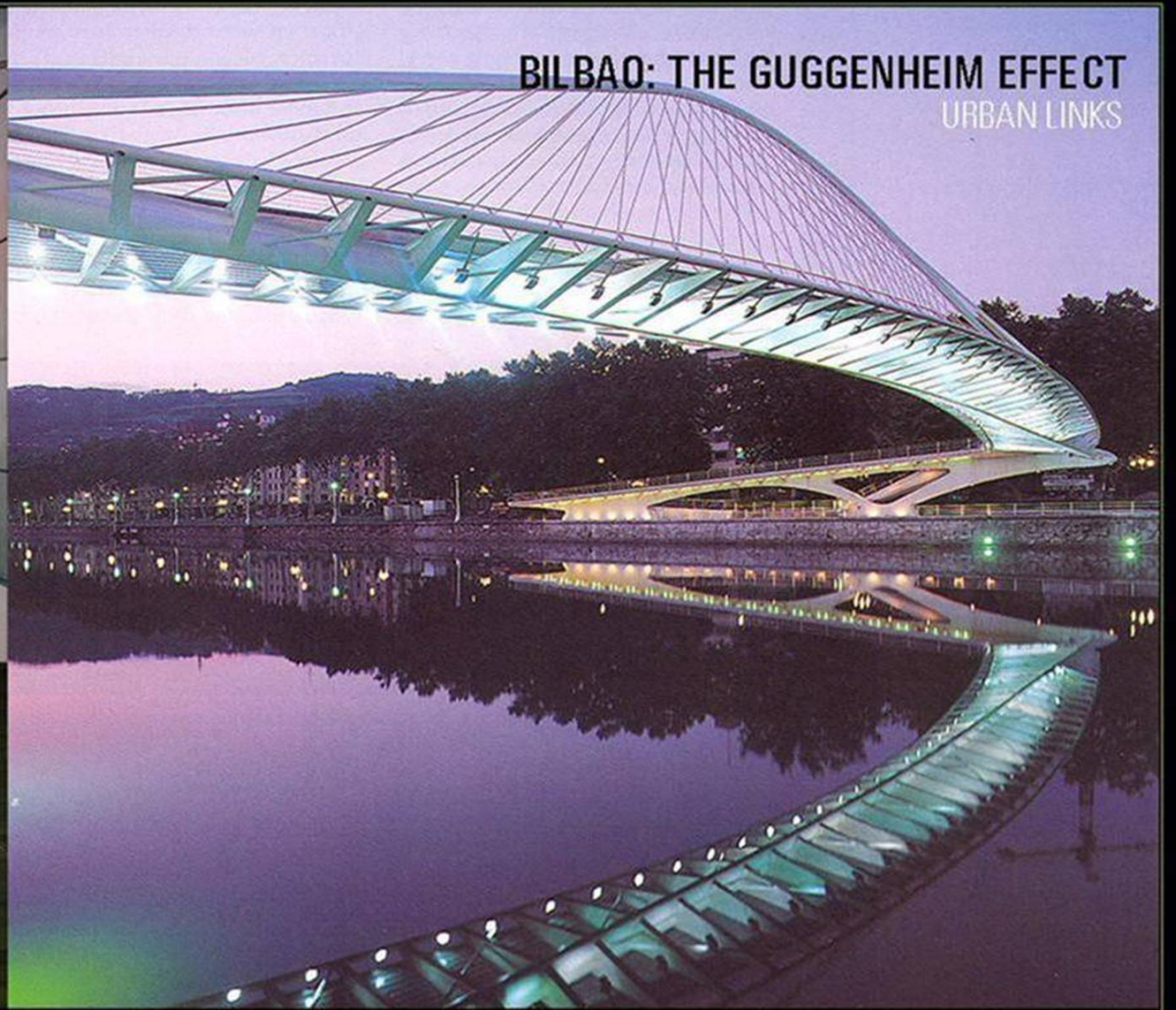
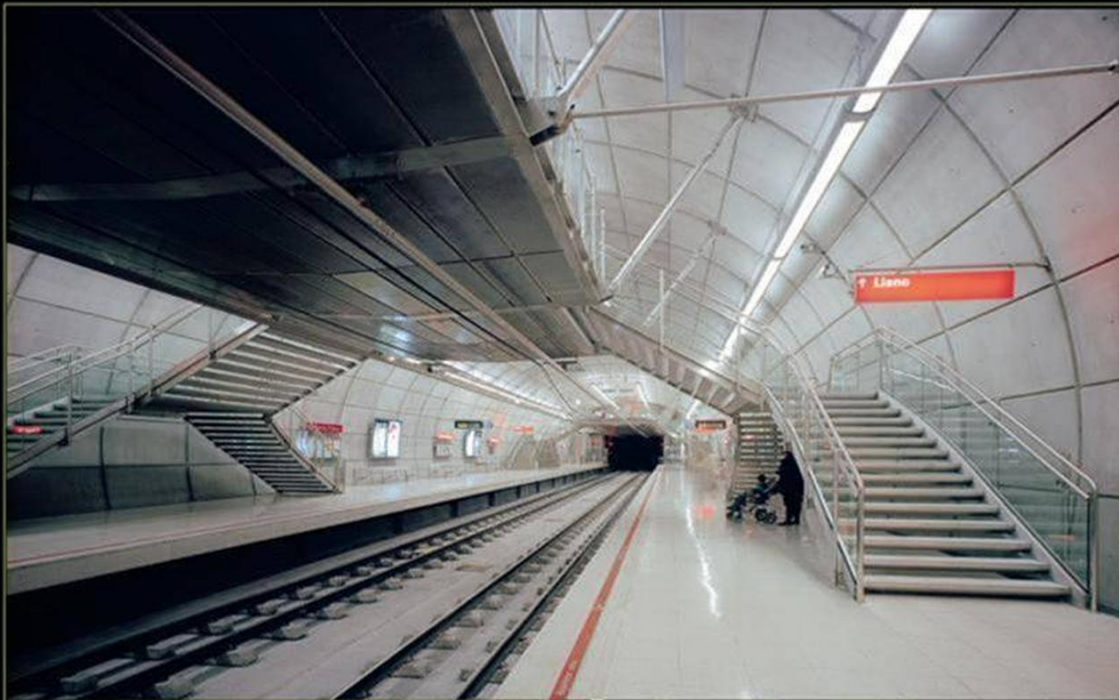


Bilbao GUGGENHEIM ++

Shanghai World Expo 2010
Better City, Better Life

A night photograph of the Guggenheim Museum Bilbao, a highly reflective, metallic building with a complex, organic shape. The building is illuminated with warm lights, and its reflection is visible in the water of the Nervion River. In the background, other city buildings are lit up, and a bridge is visible in the distance. The sky is a deep blue, suggesting dusk or dawn. The overall scene is a vibrant urban landscape.

The **Urban Transformation**



BILBAO: THE GUGGENHEIM EFFECT
URBAN LINKS

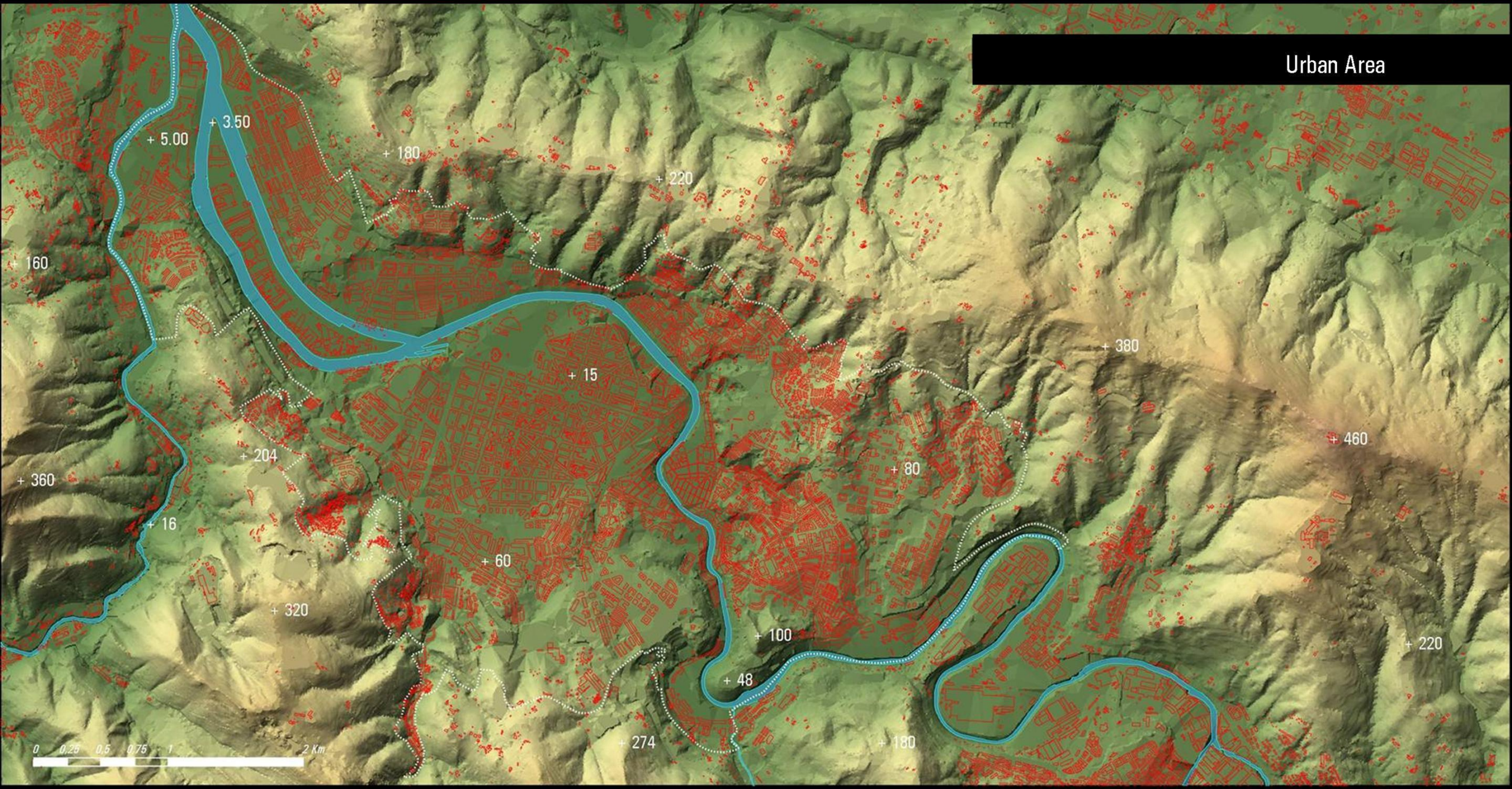


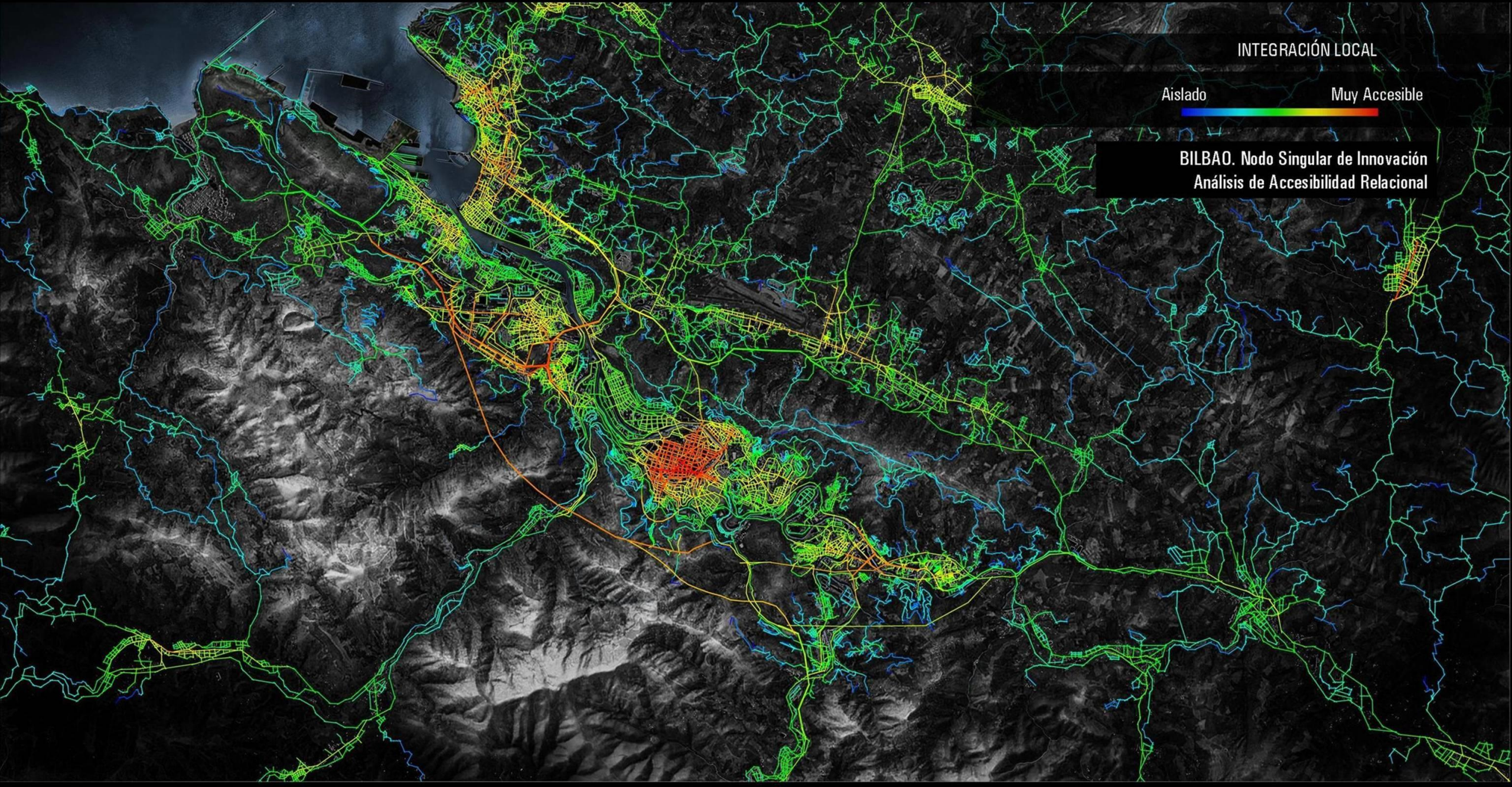
LA RIA PUNTES



Territorios Inteligentes La Renovación Urbana de Bilbao





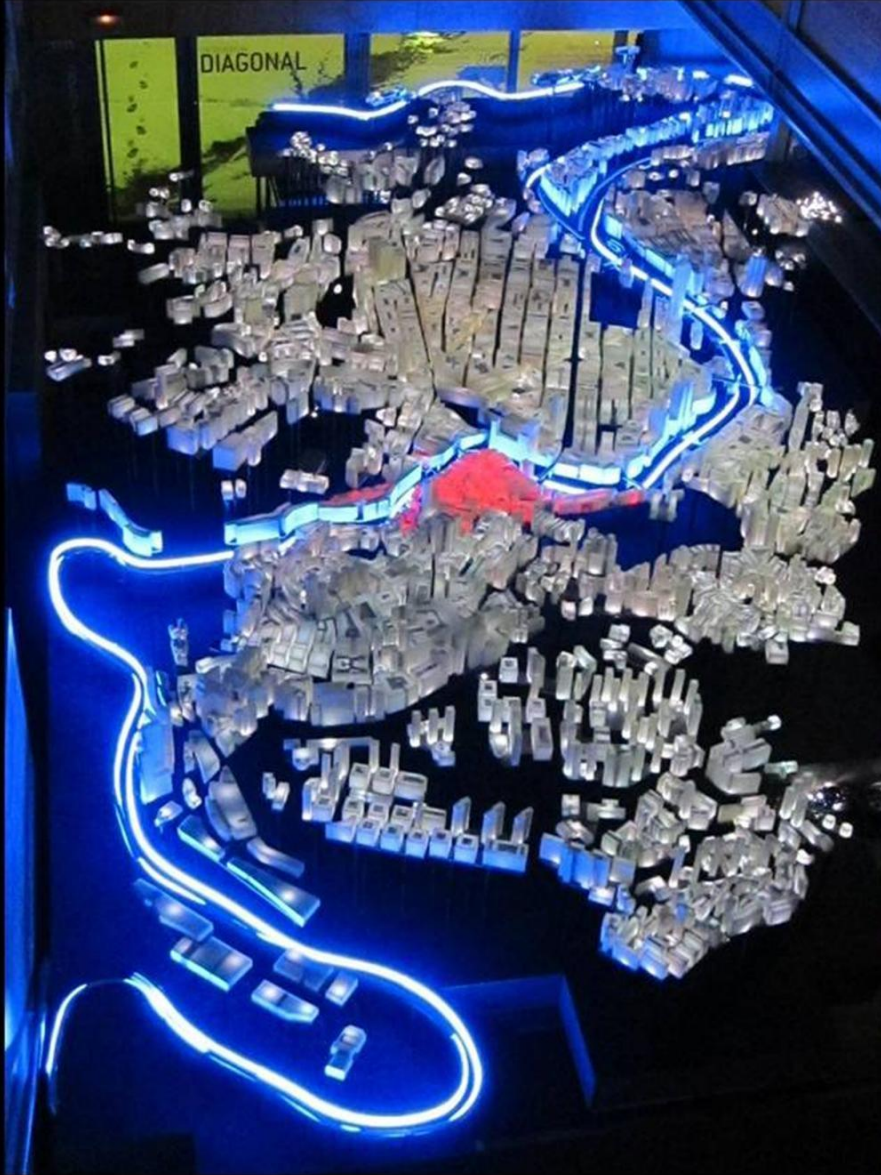


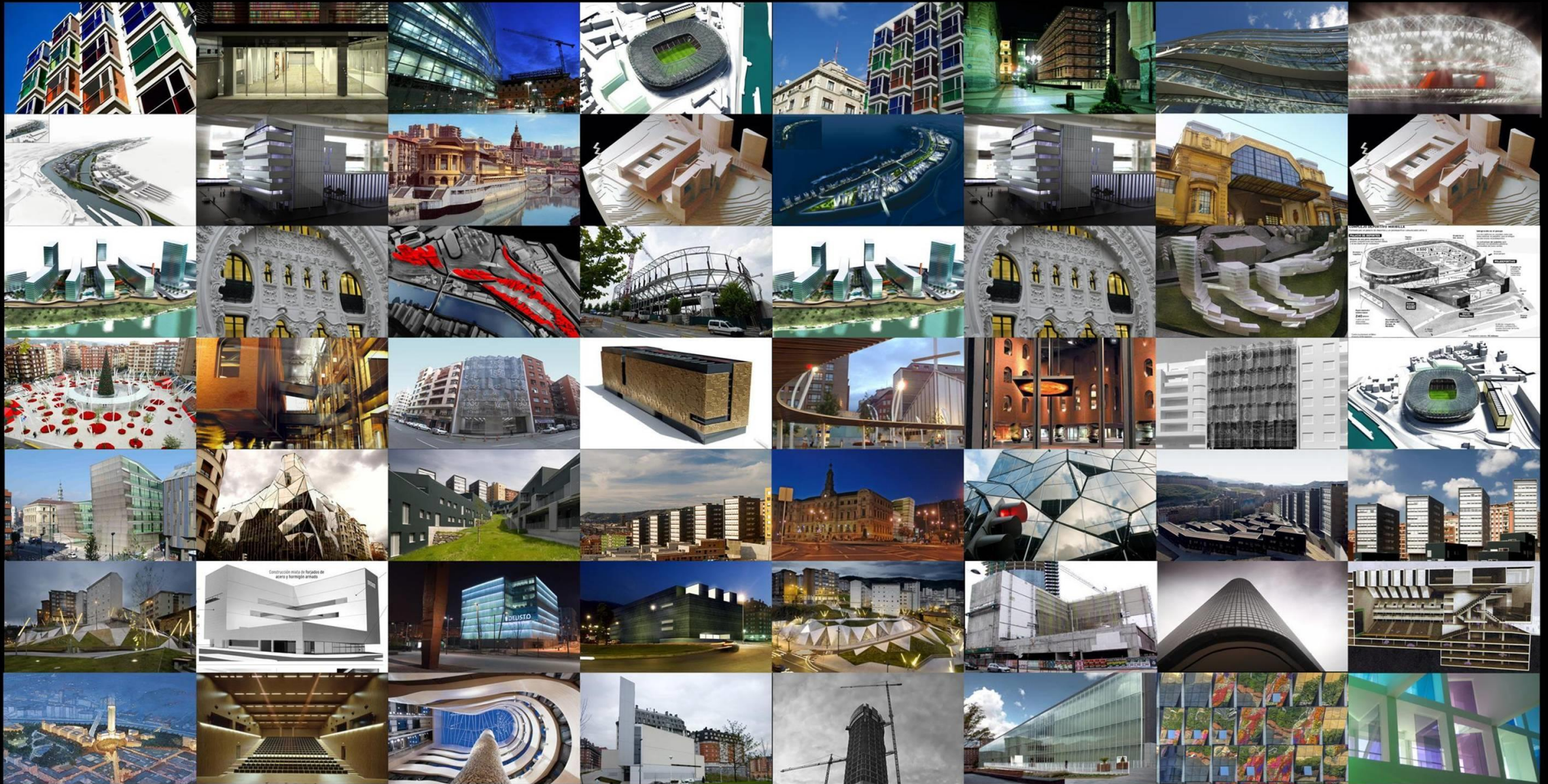
INTEGRACIÓN LOCAL

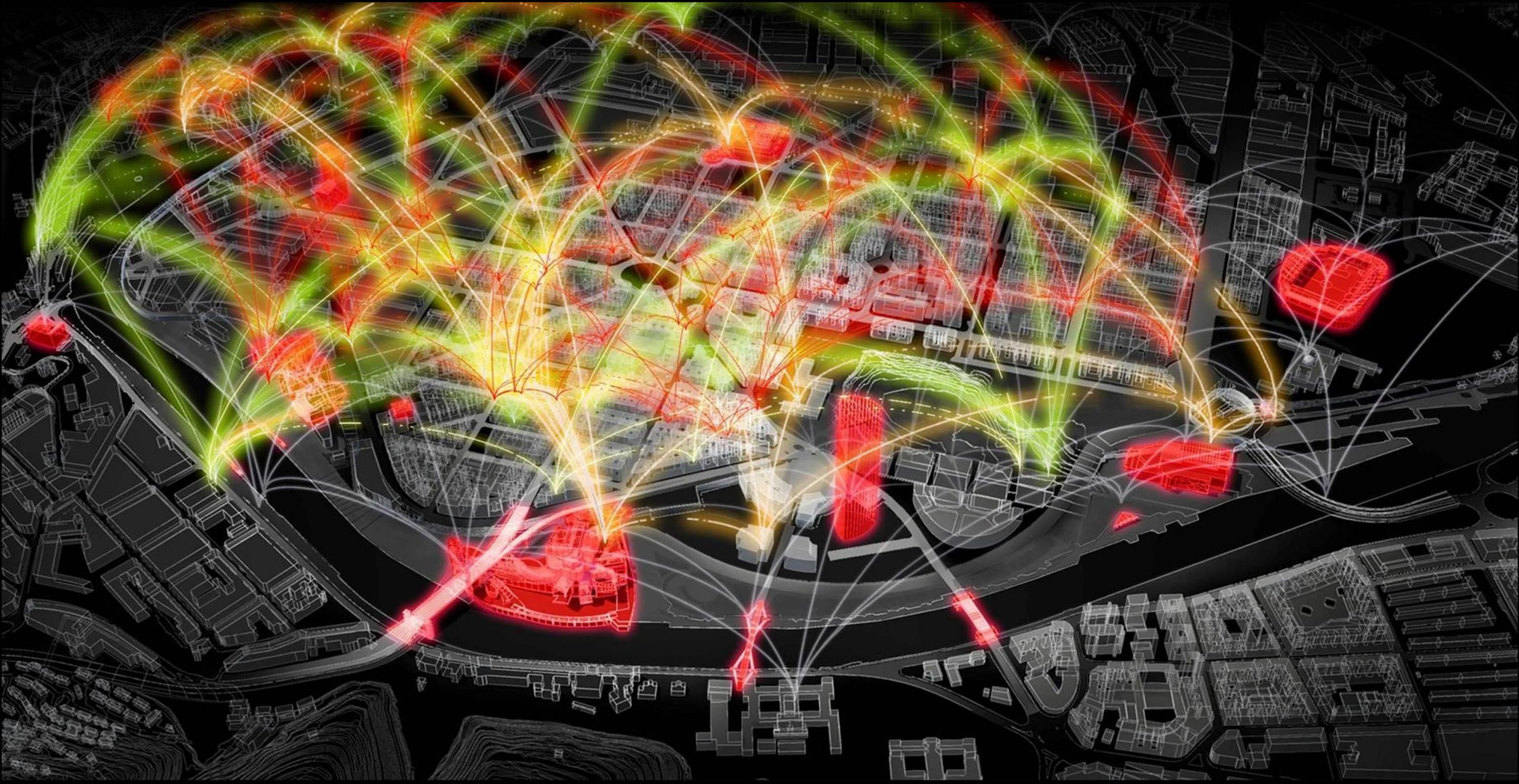
Aislado

Muy Accesible

BILBAO. Nodo Singular de Innovación
Análisis de Accesibilidad Relacional







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

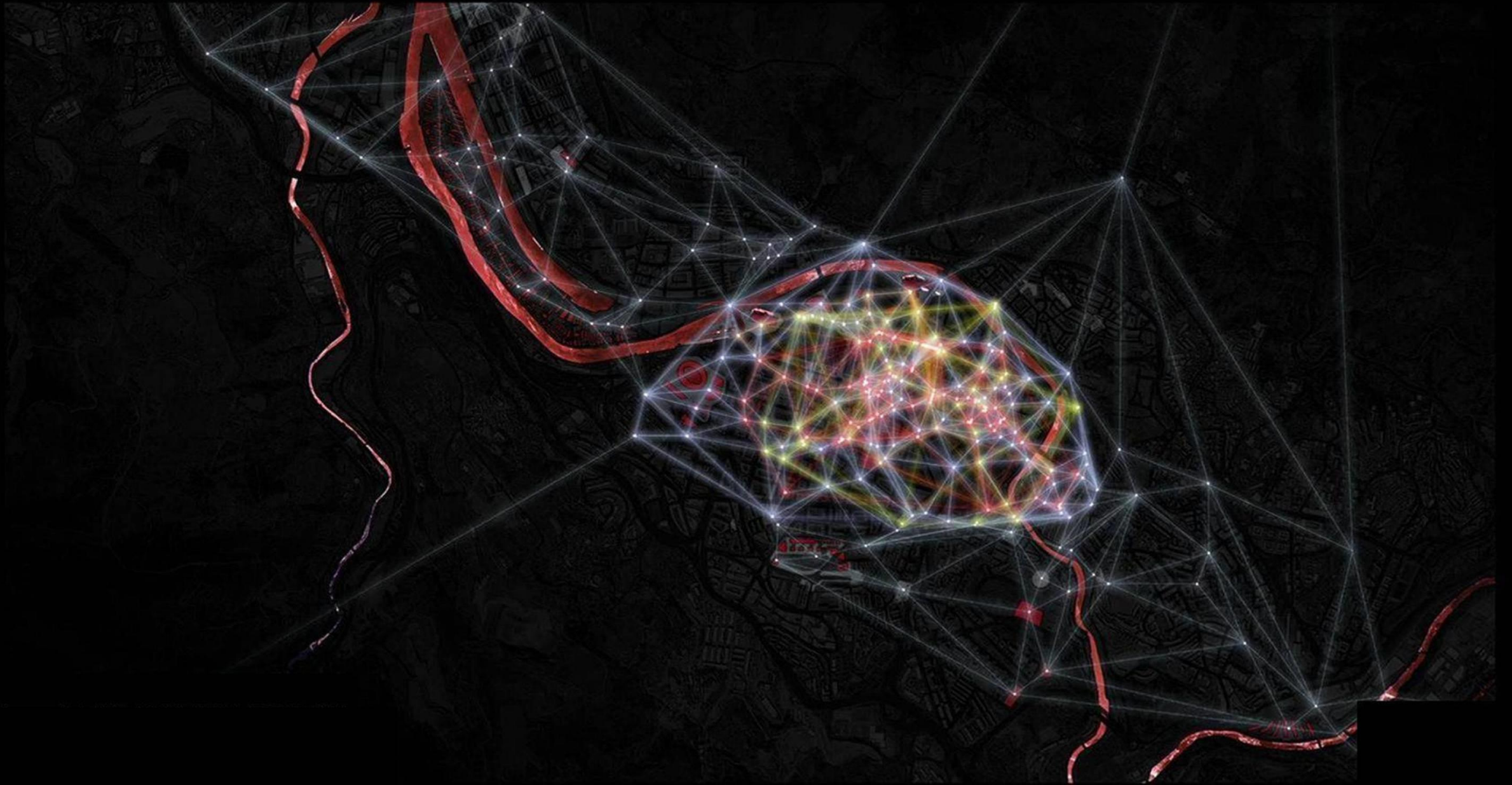


Eco-Technology and Urban Solutions

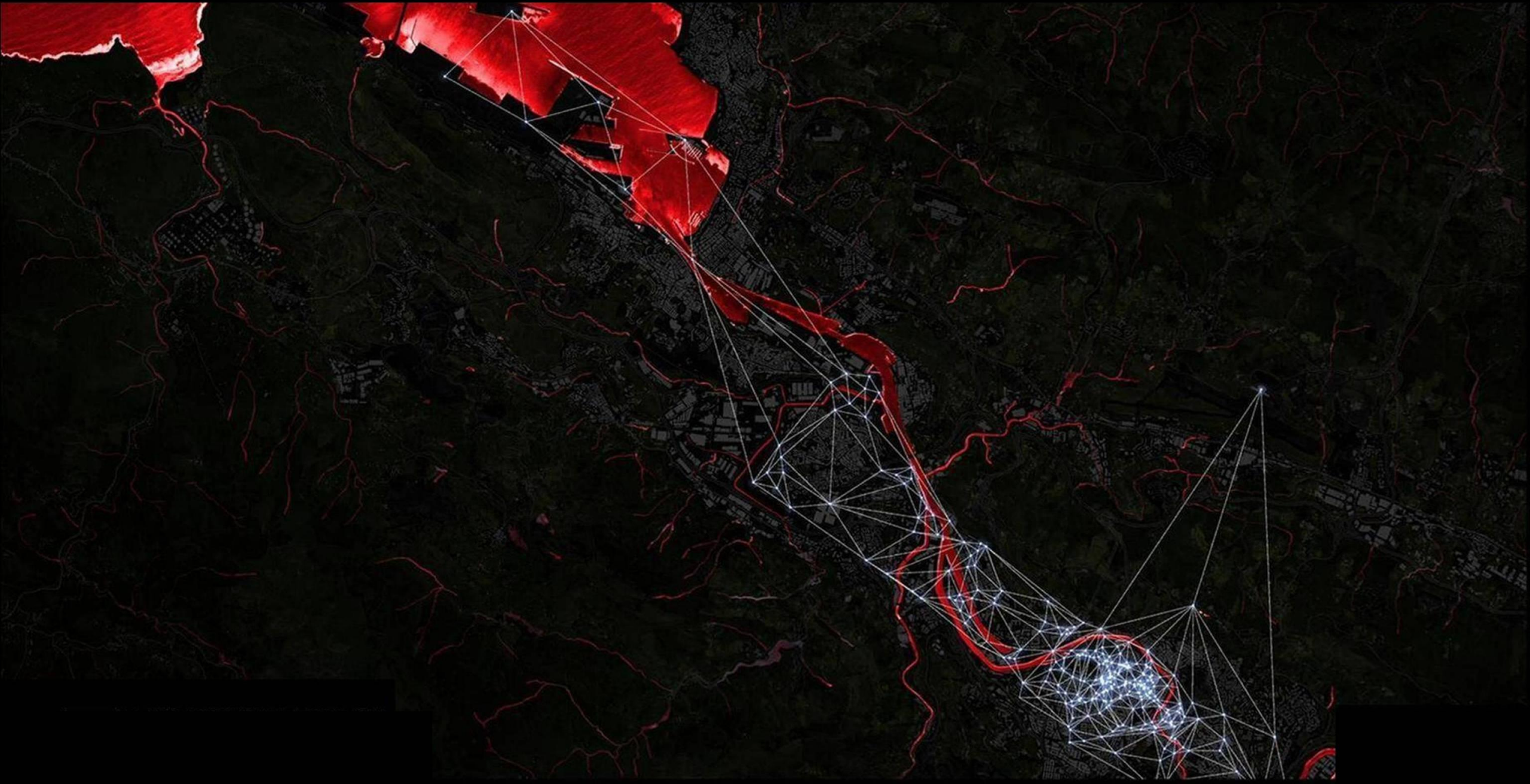
Architecture
Urban Design
Foundations
Bioclimatic Architecture
Zero Buildings
Alternative Energies Development
Sports Facilities
Eco-Construction
Eco-Technology
Engineering
Smart Districts
Research Centers
Hybrid Buildings
Urban Transportation
Sustainable Mobility



THREE INNOVATION AXIS

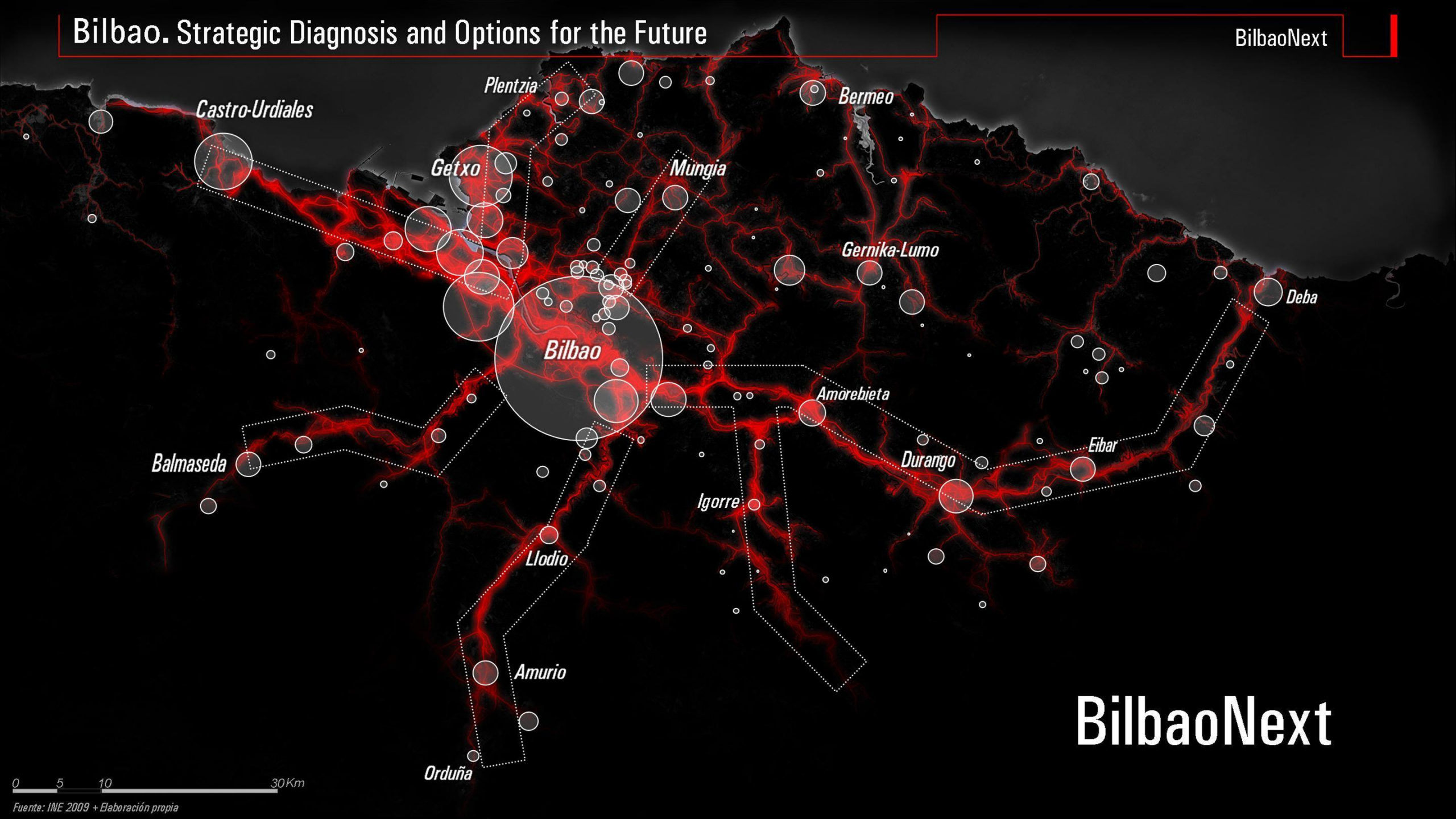




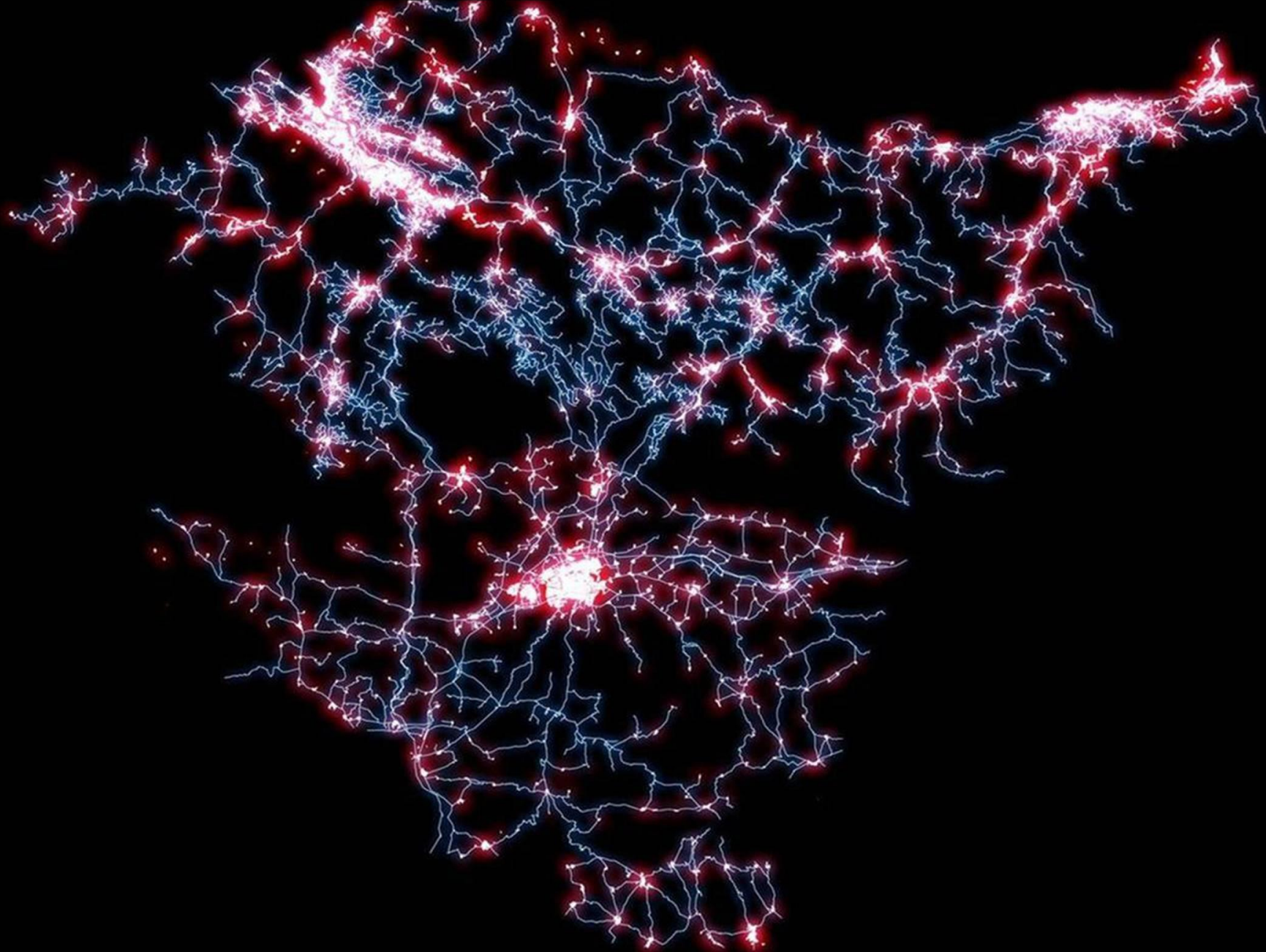


Bilbao. Strategic Diagnosis and Options for the Future

BilbaoNext



BilbaoNext



Interconnecting the Basque Capital Cities

Travel time between the cities

Tiempos de viaje en autobús



Tiempos de viaje en TAV

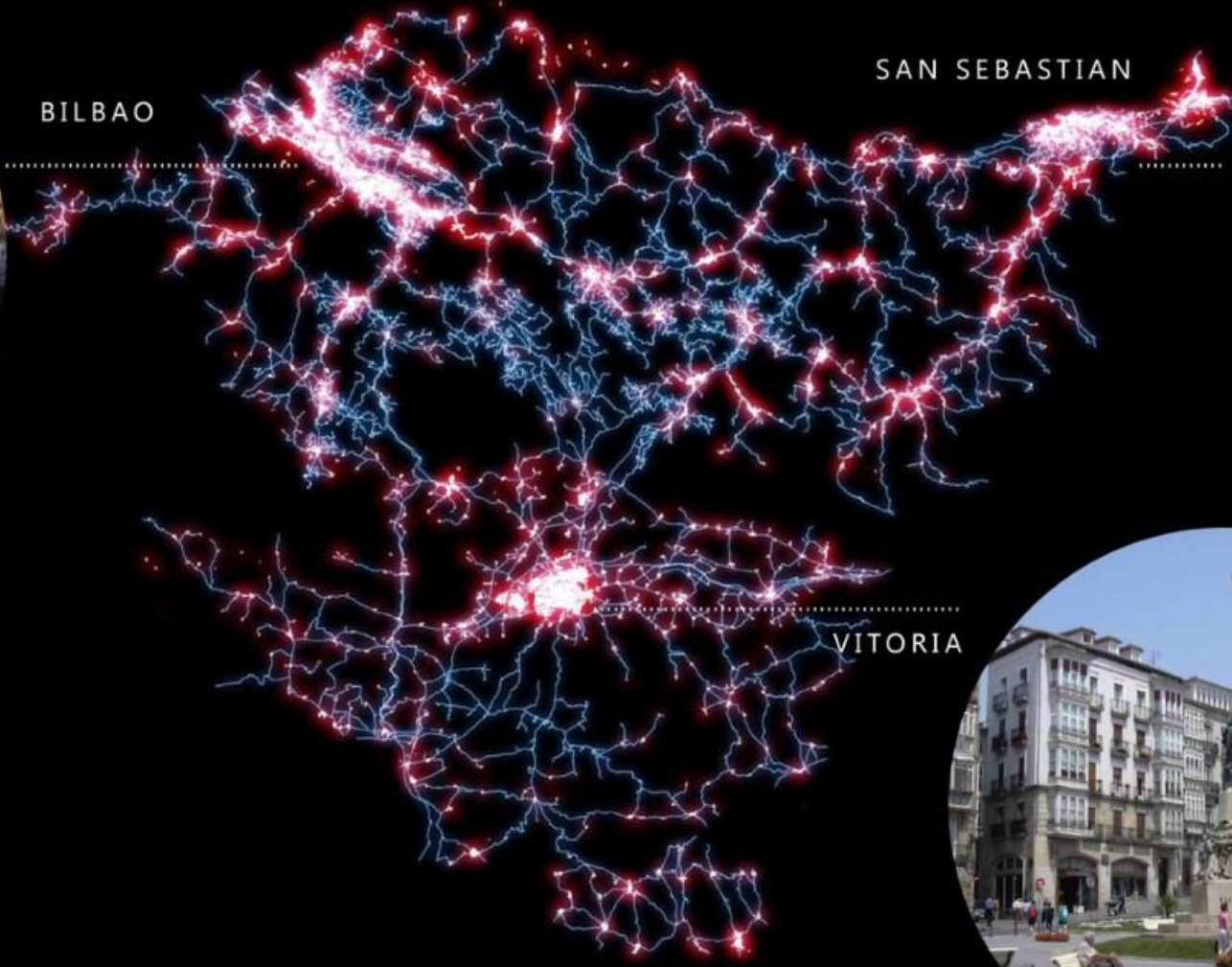


Territorios Inteligentes Euskal Hiria

EUSKAL HIRIA



BILBAO



SAN SEBASTIAN



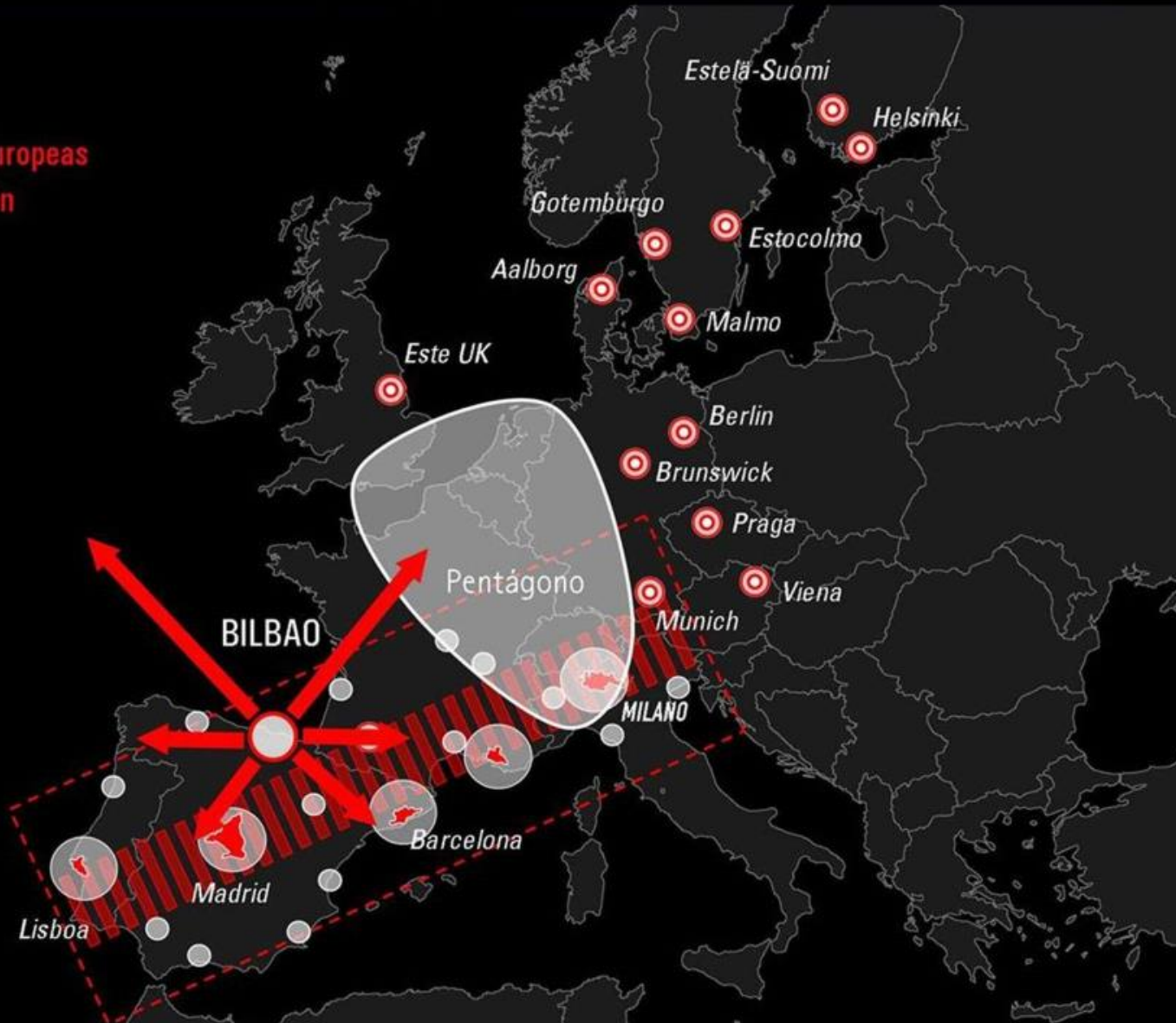
VITORIA



50 km

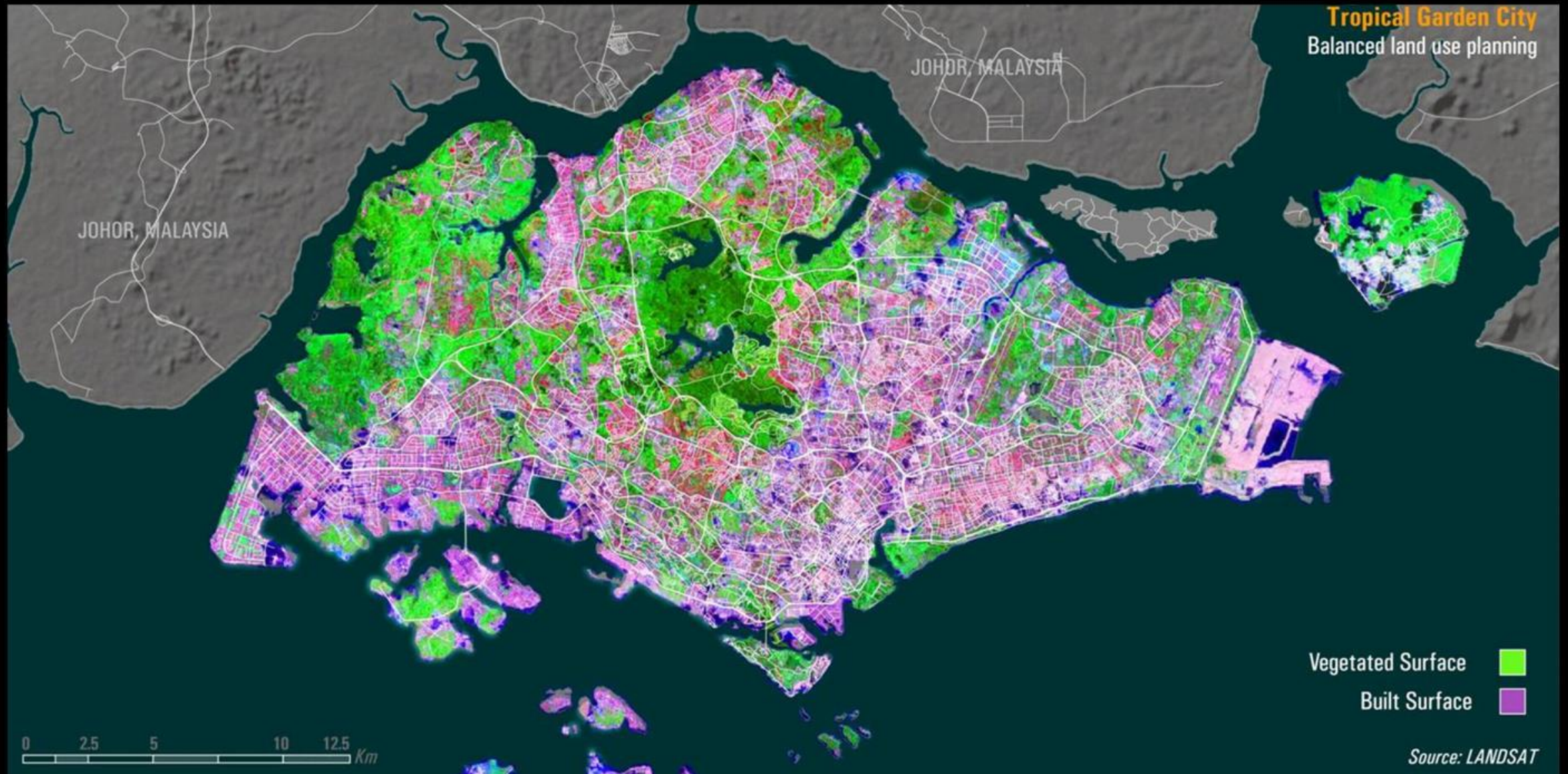


Regiones Europeas
Nueva Visión



Oportunidades de articulación regional
Protagonismo Europeo

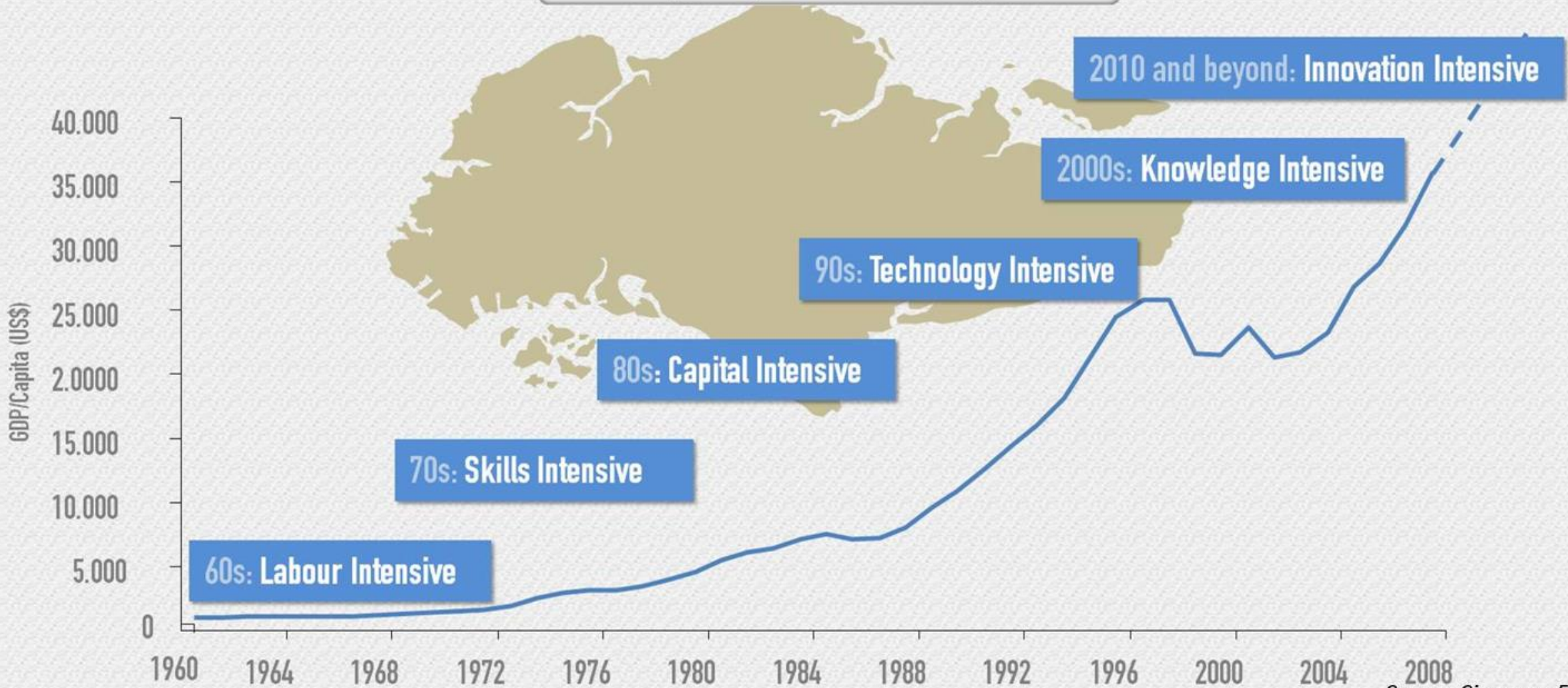




Singapur Living Lab

Singapore has come a long way

GDP per capita ↑ 80x in 47 years



Source: Singapore EDB

TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH

an experiment !



one-north

TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH



TTI FUNDACION METROPOLI
www.fundacion-metropoli.org

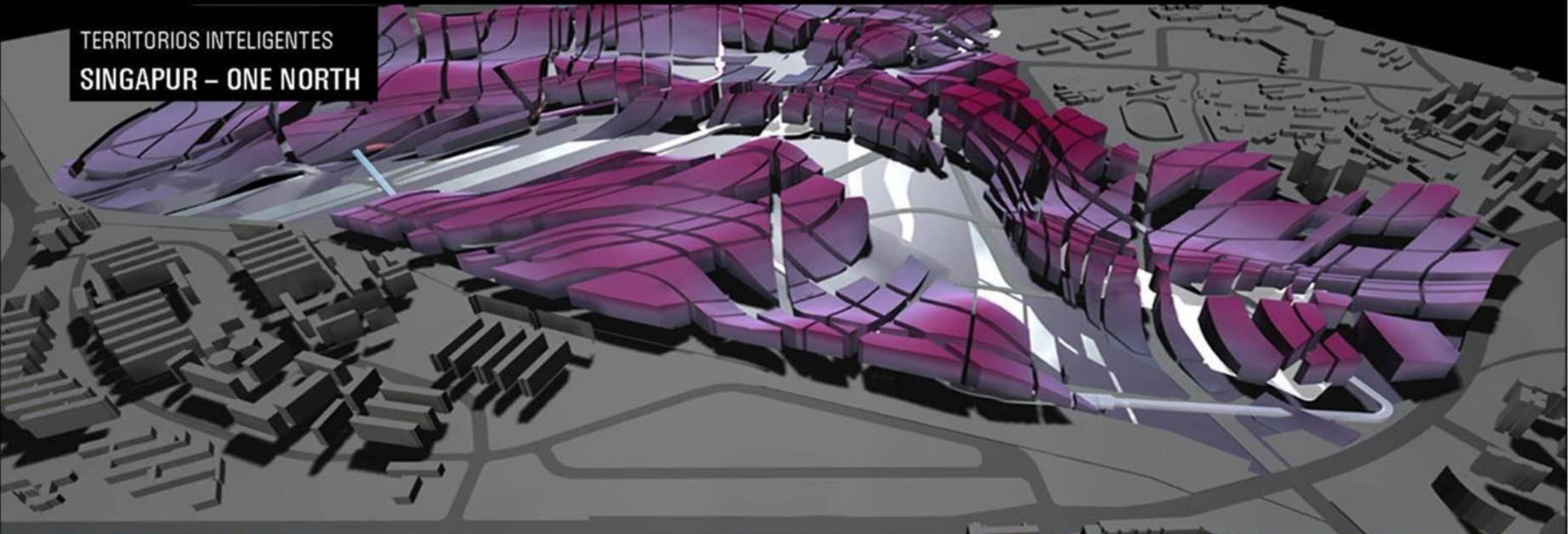


a new economy community



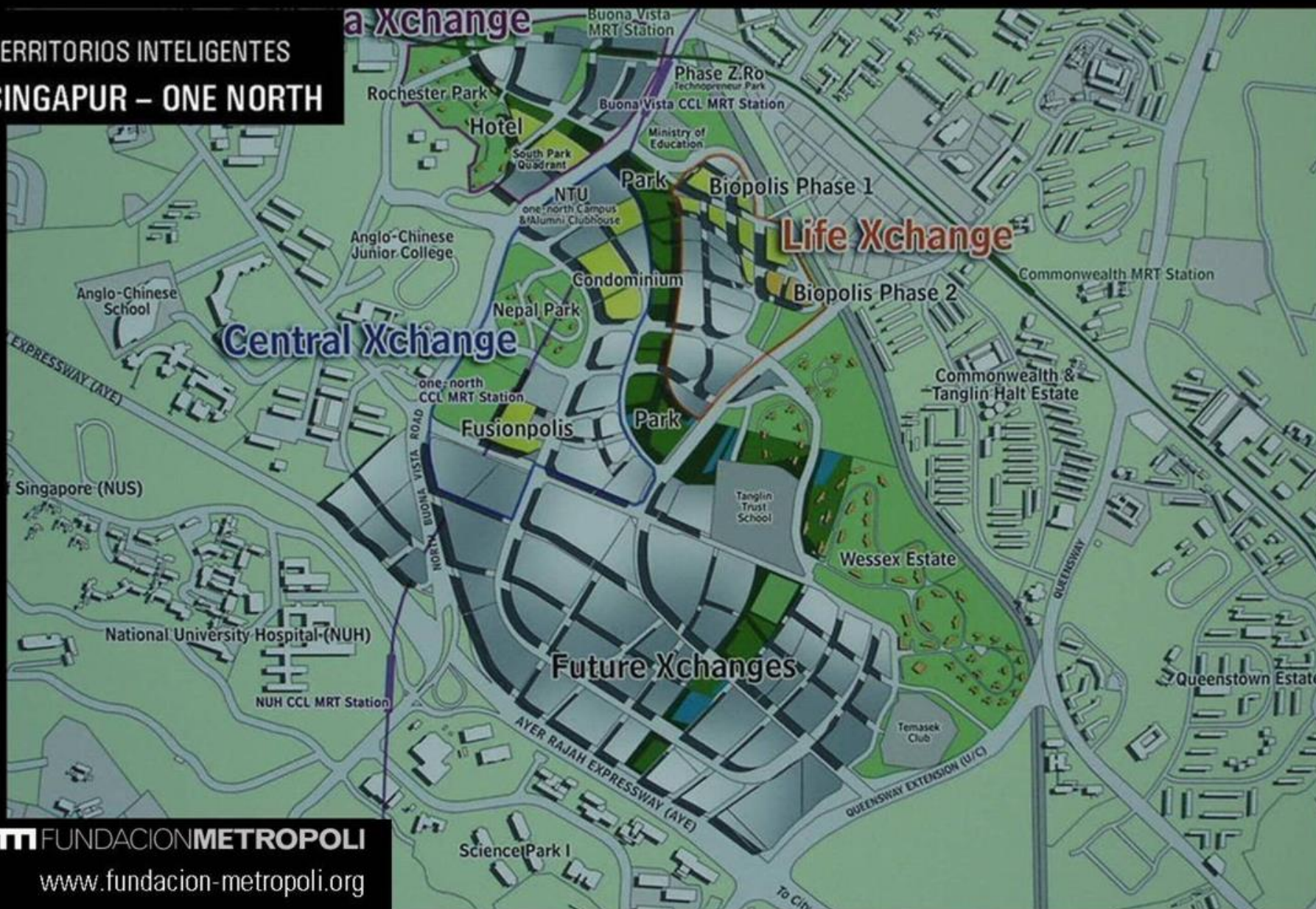
Alfonso Vegara

TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH

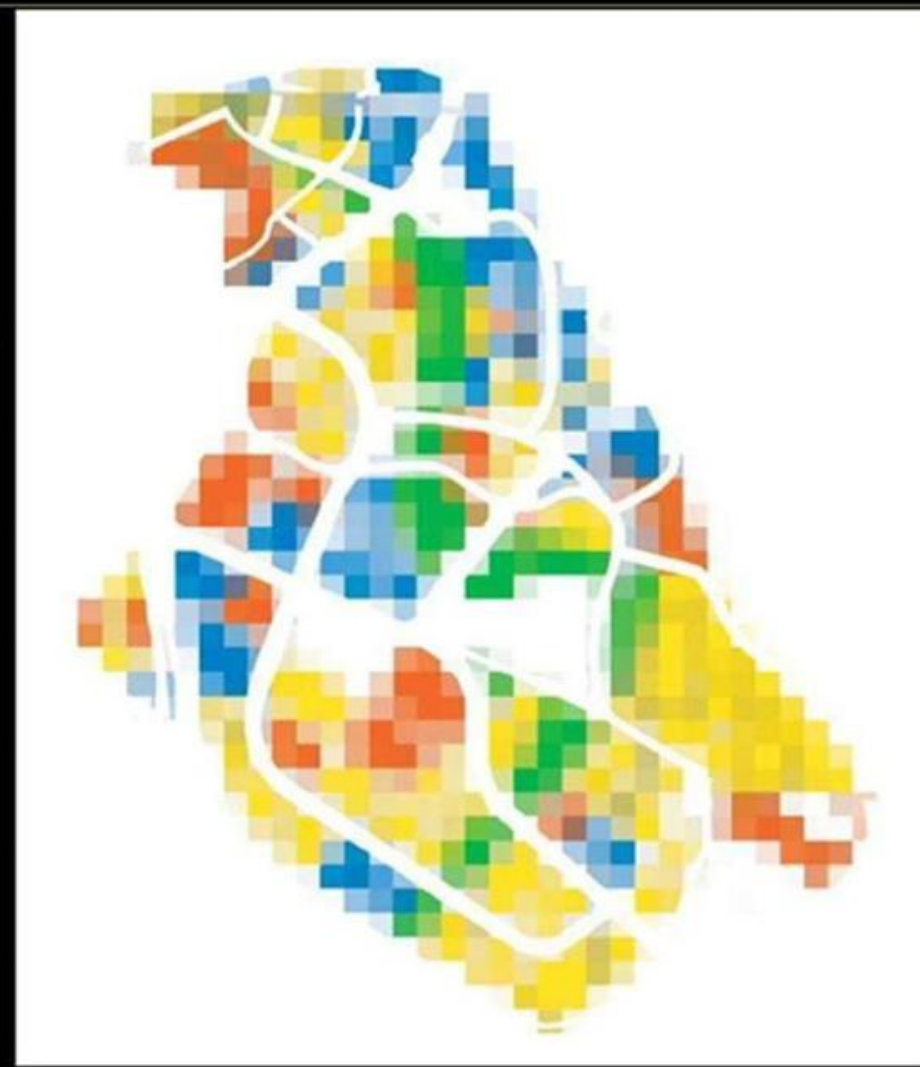


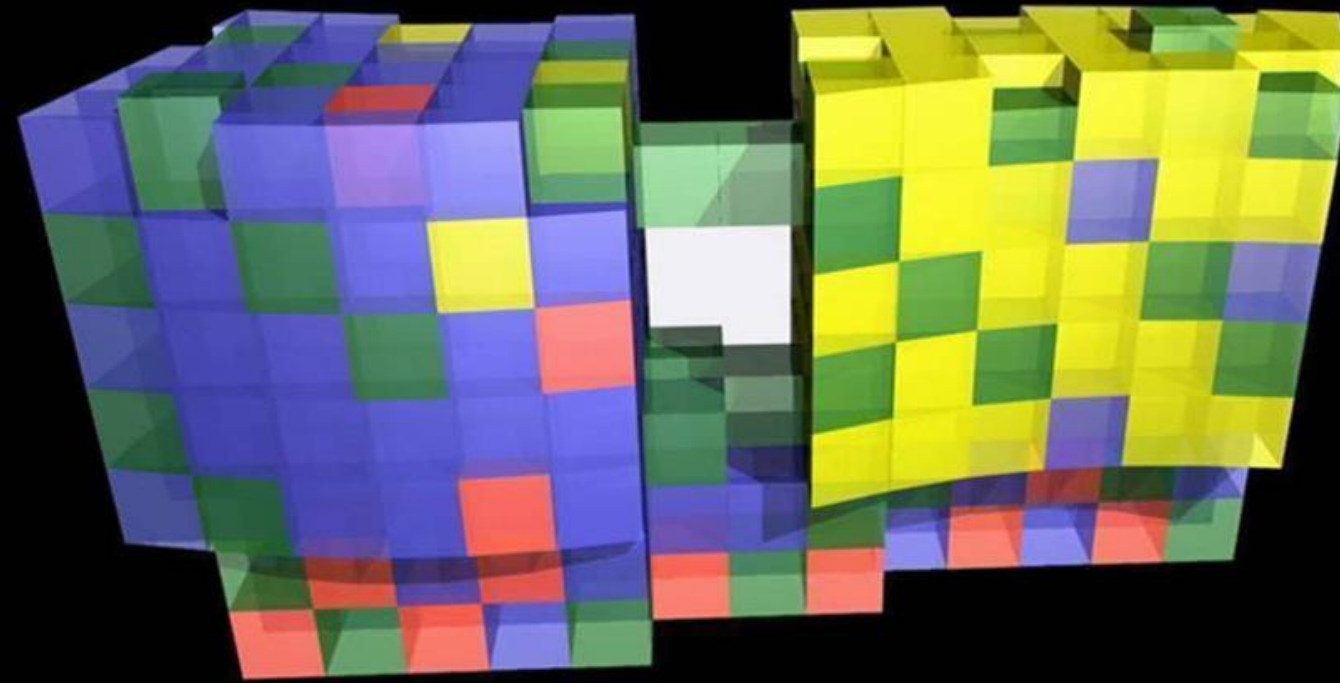
Alfonso Vegara

TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH



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





Work Live Play Learn



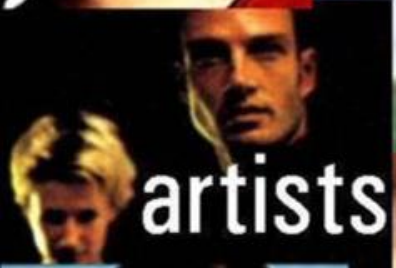
residents



scientists



researchers



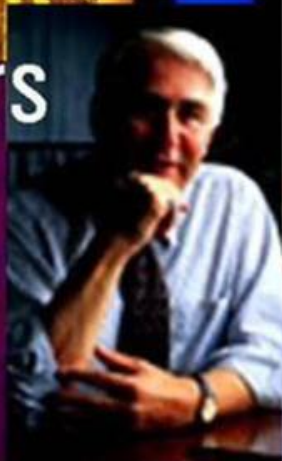
artists



academics



technopreneuers

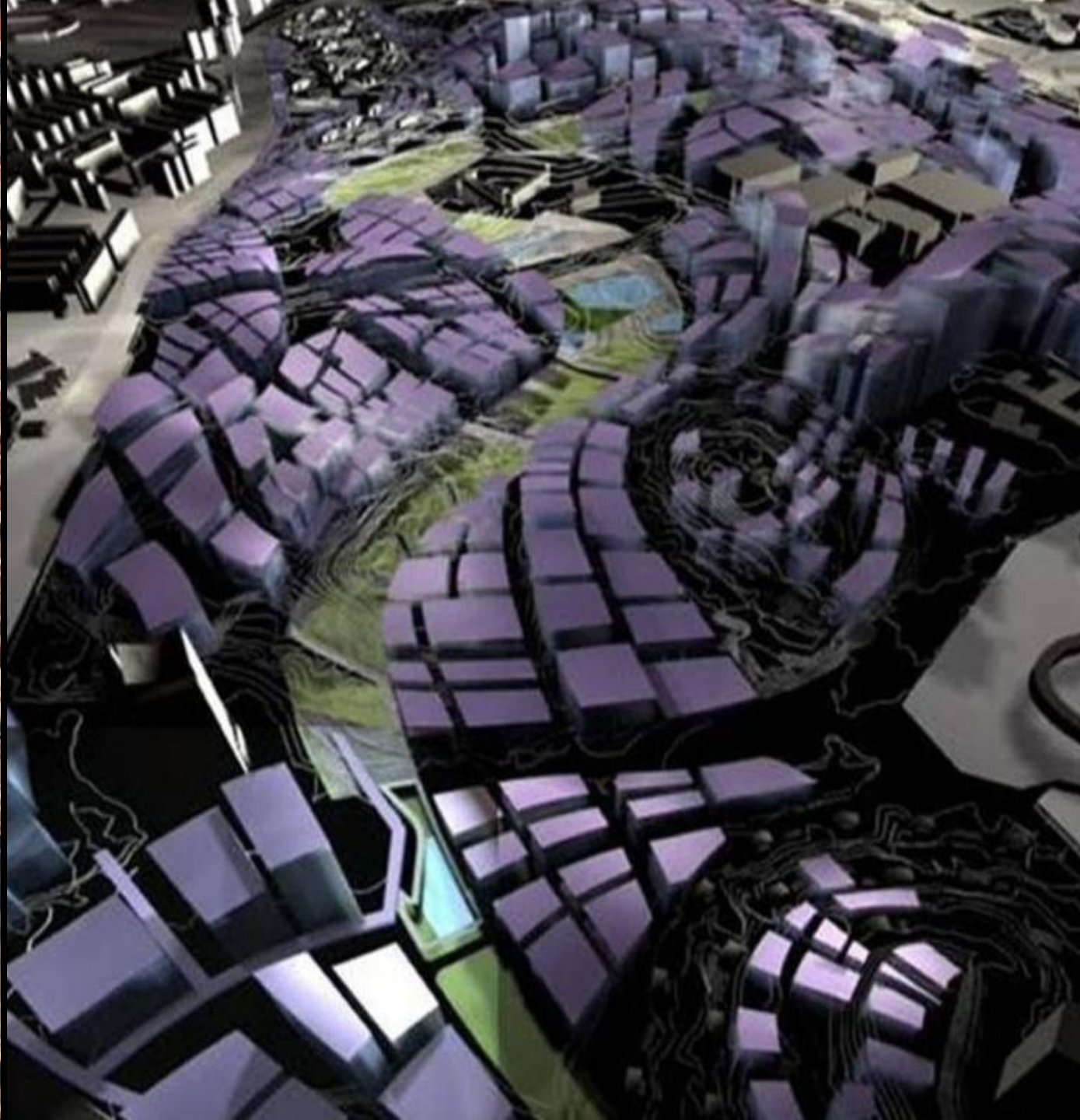


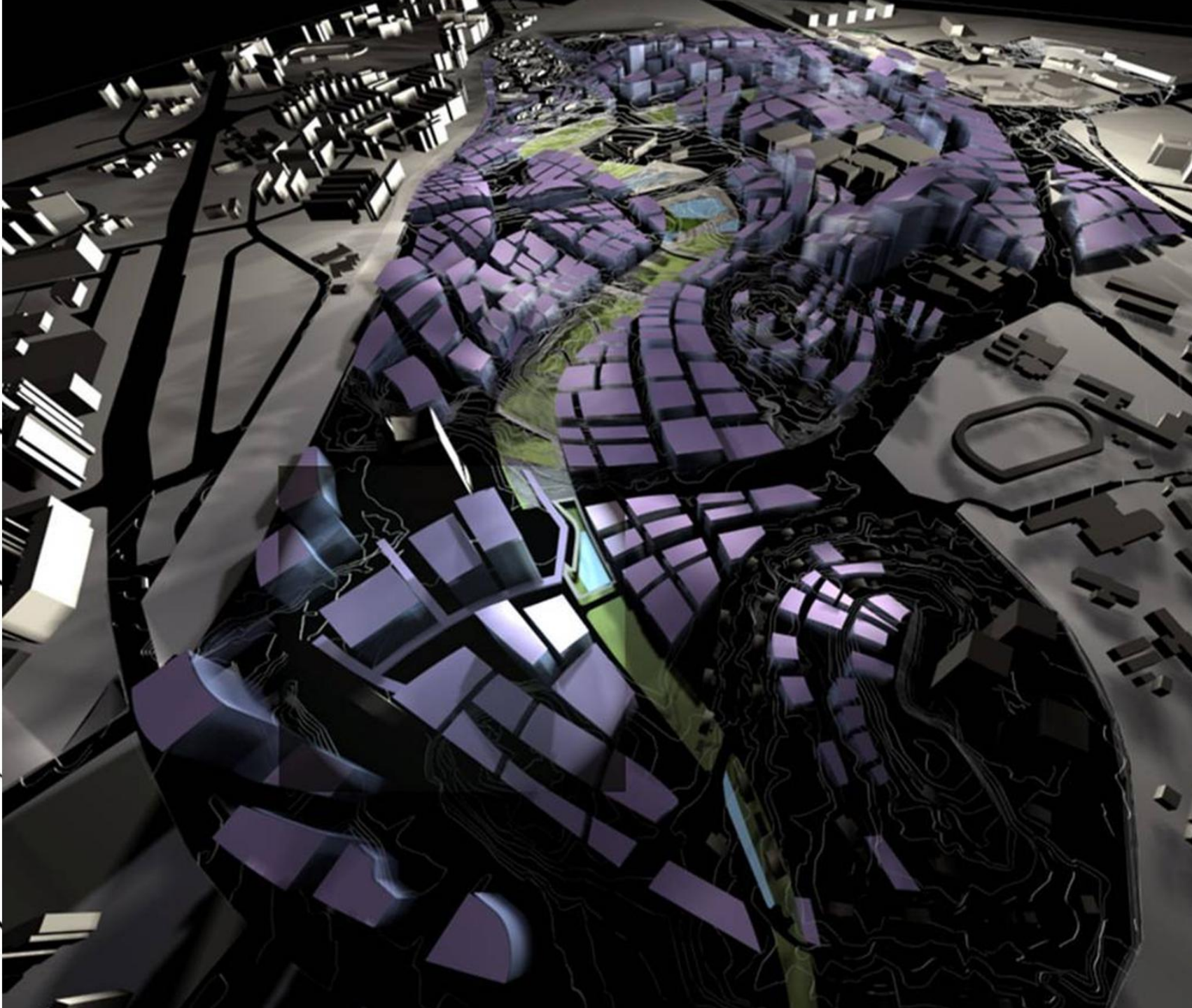
students



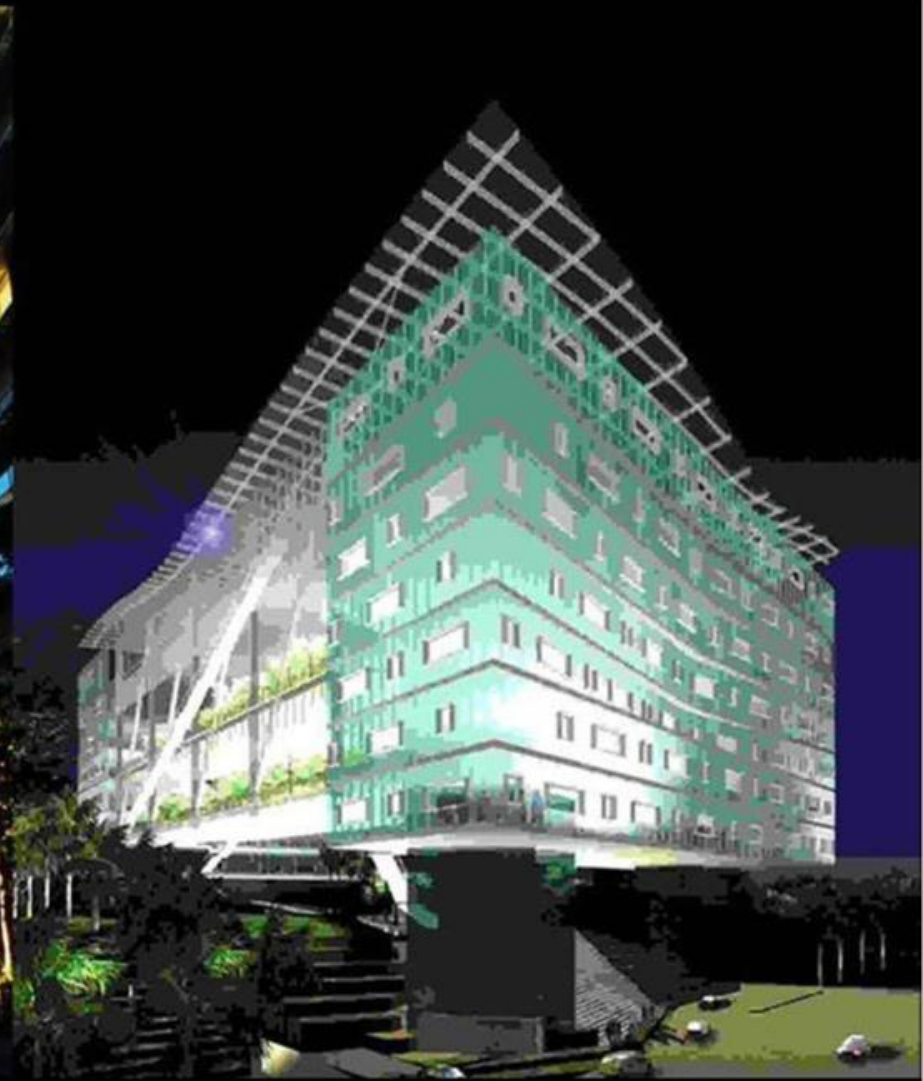
venture capitalists







TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH



TERRITORIOS INTELIGENTES
SINGAPUR – ONE NORTH





SINGAPORE

Soluciones Urbanas

Algunas ciudades ya se están posicionando en este escenario:

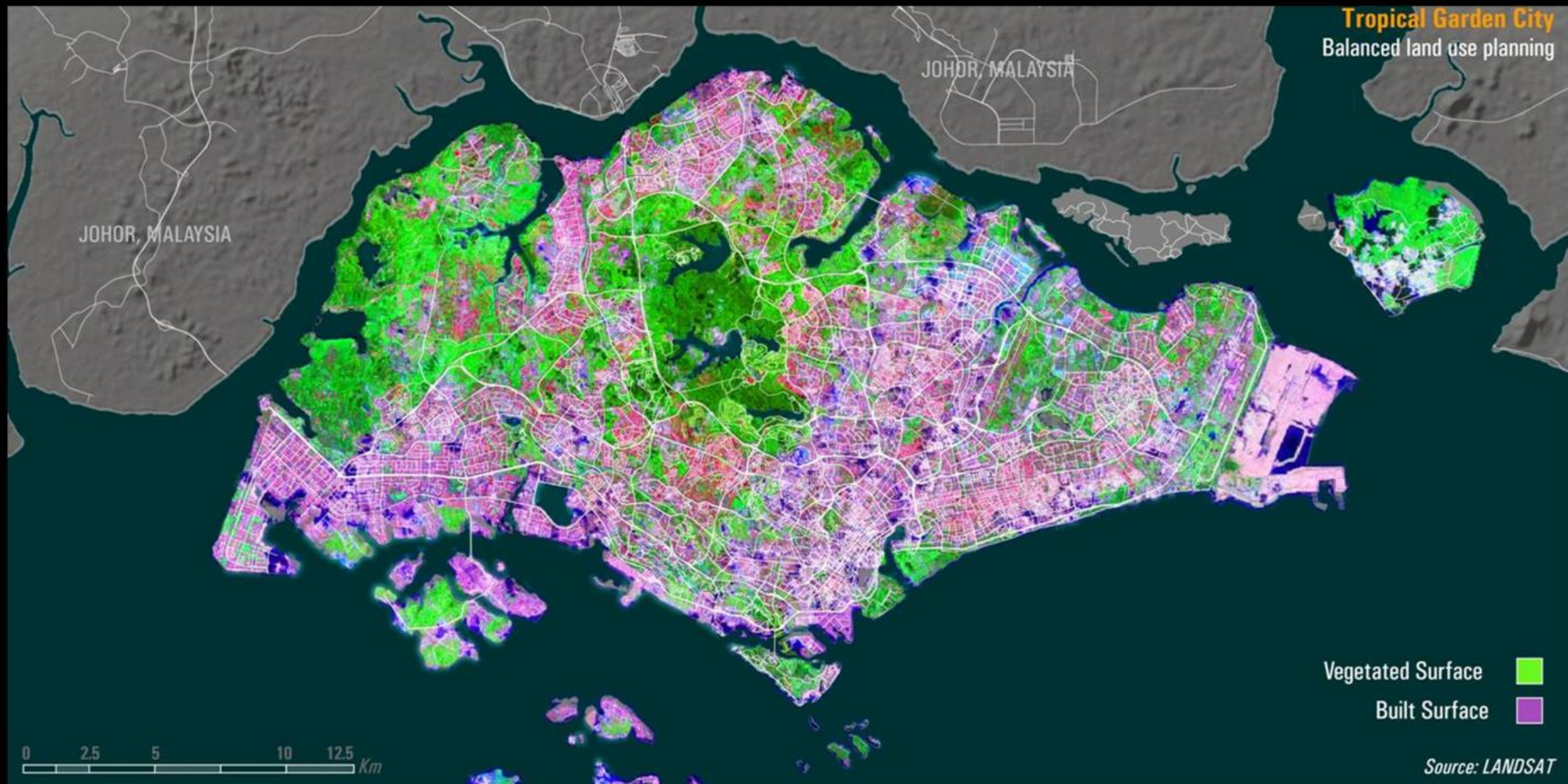
Singapore que presenta los mejores indicadores de sostenibilidad de Asia, ha planteado el sector de "Soluciones Urbanas" como la principal prioridad de su economía para los próximos años, utilizando la ciudad como laboratorio y desarrollando «start ups» para la creación de nuevas ciudades en el exterior.

Singapur Living Lab

Beyond R&D. A Living Laboratory

Ideas To Solutions, Solutions to Business





THE BINTAN PROJECT. The Intelligent Island of Indonesia

Malaysia

Singapore

Indonesia

CRITICAL CARTOGRAPHY

ASEAN SuperCity

Administrative boundaries

Countries

0 25 Km 50 Km



ISOCRONES STUDY
ASEAN SuperCity
Isochrones from
Singapore



Singapore

Harbourfront

15 min

0 20 Km 40 Km

ISOCRONES STUDY
ASEAN SuperCity
Isochrones from
Singapore



30 min



THE BINTAN PROJECT. The Intelligent Island of Indonesia

ISOCRONES STUDY
ASEAN SuperCity
Isochrones from
Singapore



45 min



THE BINTAN PROJECT. The Intelligent Island of Indonesia

ISOCRONES STUDY
ASEAN SuperCity
Isochrones from
Singapore



1h

ISOCRONES STUDY
ASEAN SuperCity
Isochrones from
Singapore



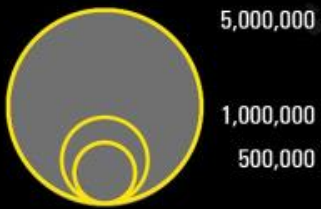
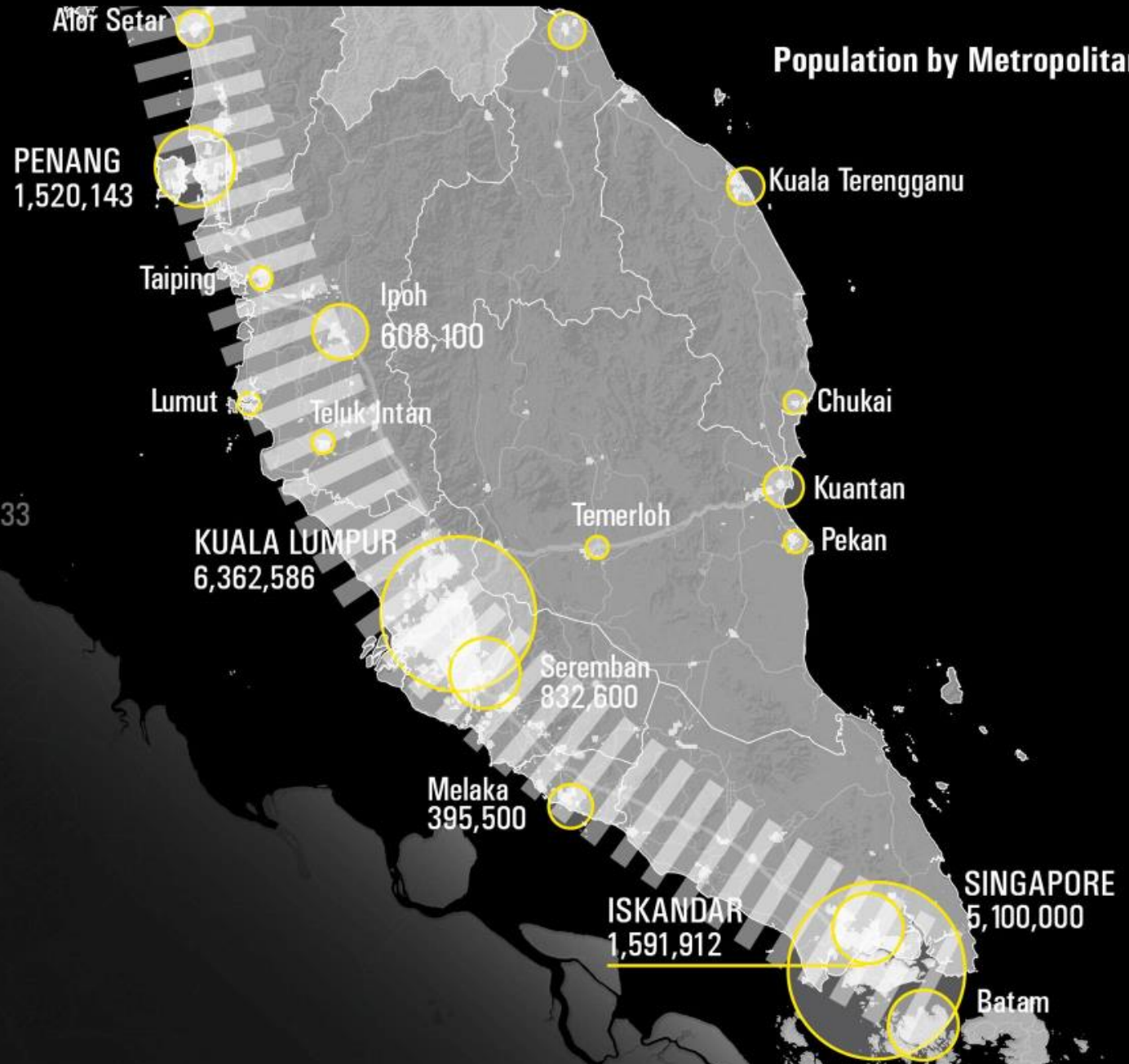
ISOCRONES STUDY
ASEAN SuperCity
Isochrones from
Singapore



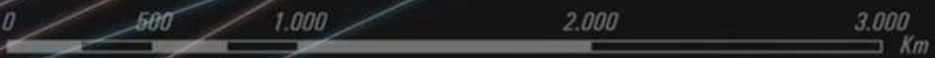
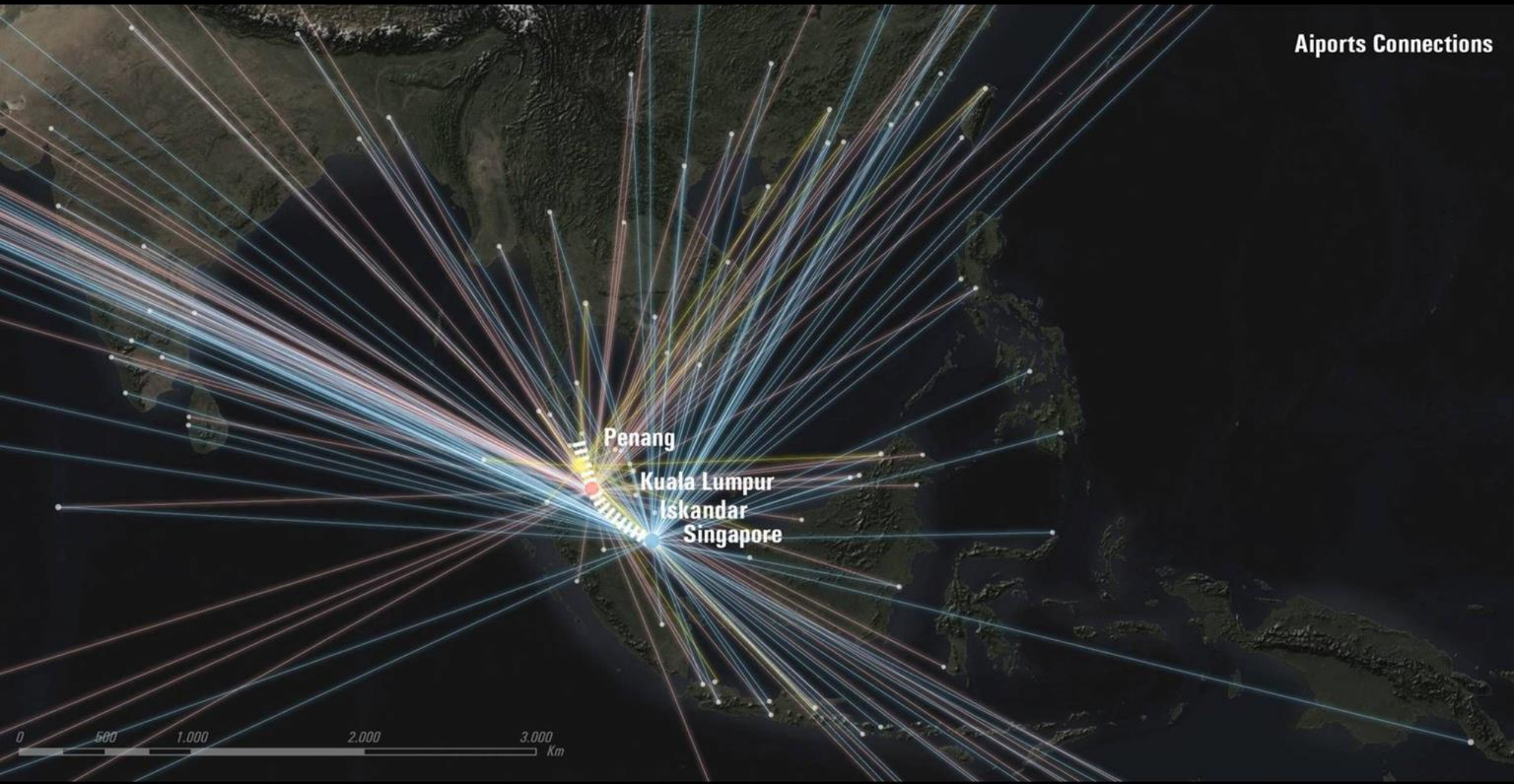
2h

OVER 16 MILLION PEOPLE IN THE MALACCA STRAITS DIAGONAL

Population by Metropolitan Area



Aiports Connections



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4. 25 Years after Barcelona Olympics
5. Tokyo 2020. Technology for Future Cities




DIAMANTE

CARIBE & SANTANDERES

 MINHACIENDA

Findeter
Financiera del Desarrollo 

 **TODOS POR UN
NUEVO PAÍS**
PAZ EQUIDAD EDUCACIÓN

Next Cities Lab

 Microsoft

TTT FUNDACIONMETROPOLI



Fuente: DANE, 2012

Los Diamantes de Colombia

Sistema de Ciudades de Colombia

Vocaciones y Complementariedades Estratégicas
Hacia una regionalización de Colombia

Diamantes Territoriales

Caribe y Santanderes

Población	29%
Superficie	16%
Aportación al PIB nacional	24%



Fuente: Instituto Geográfico Agustín Codazzi (IGAC)

Sistema Urbano Diamante

● Archipiélago de San Andrés



Población del Diamante (Miles de Habitantes)

1994	AM Barranquilla
1292	AM Bucaramanga
1288	AM Cartagena
681	AM Santa Marta
640	AM Montería
504	AM Valledupar
417	AM Barrancabermeja
395	AM Sincelejo
328	Apartadó-Turbo
231	Riohacha

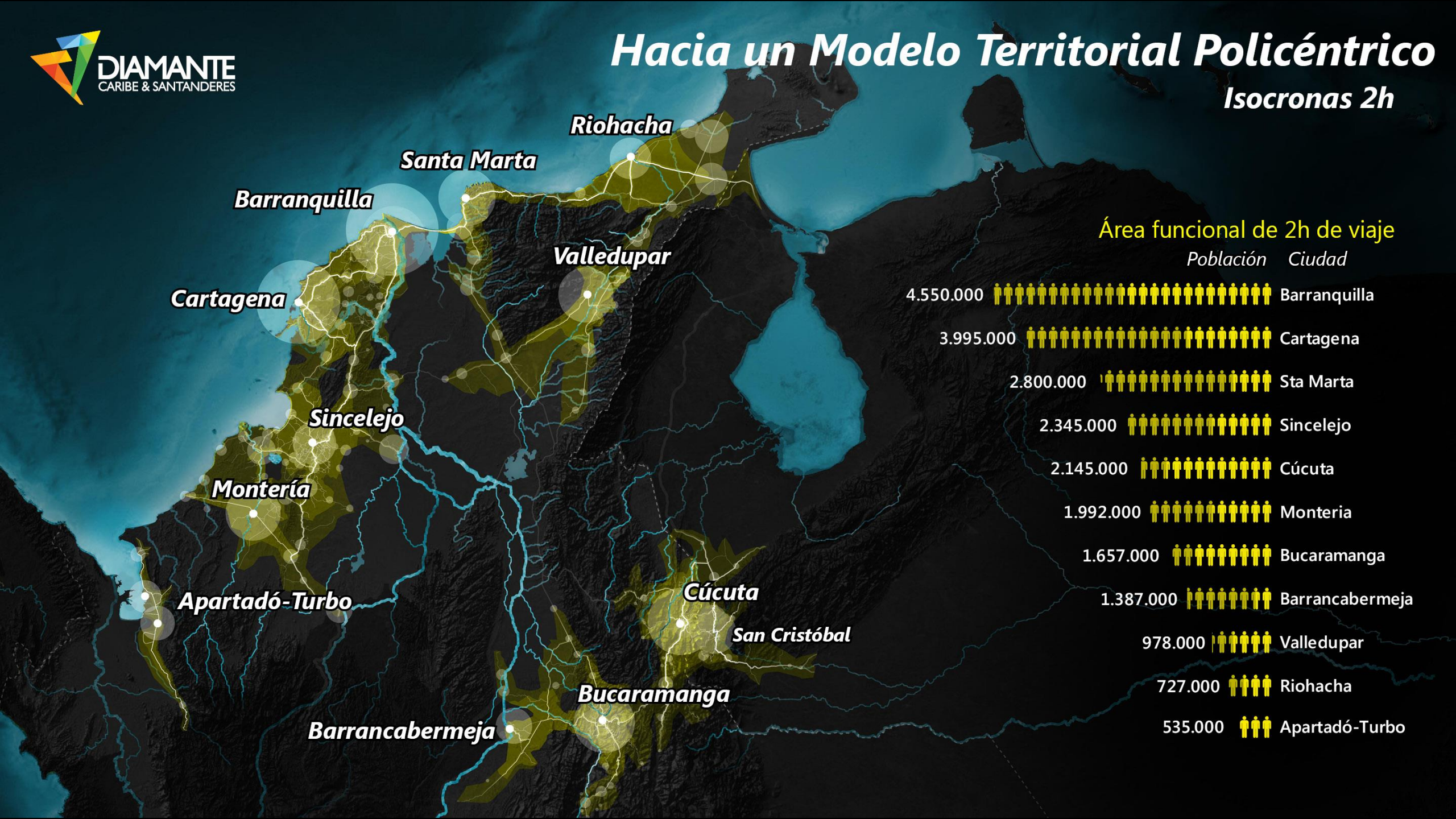
Población de los Conectores Territoriales

76	La Dorada
75	Archipiélago de San Andrés

● La Dorada












Hacia un Modelo Territorial Policéntrico

Isocronas 2h



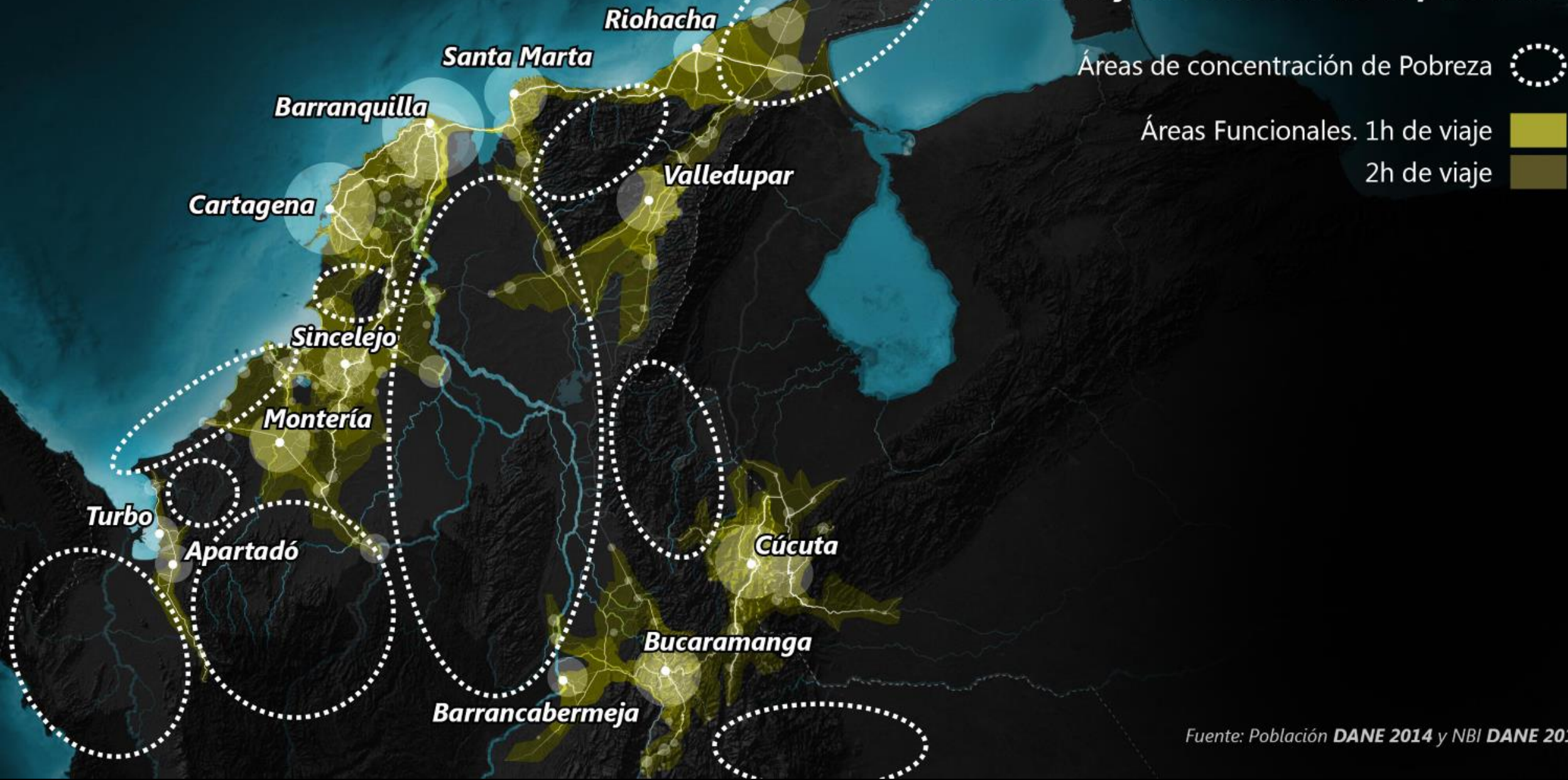
Área funcional de 2h de viaje

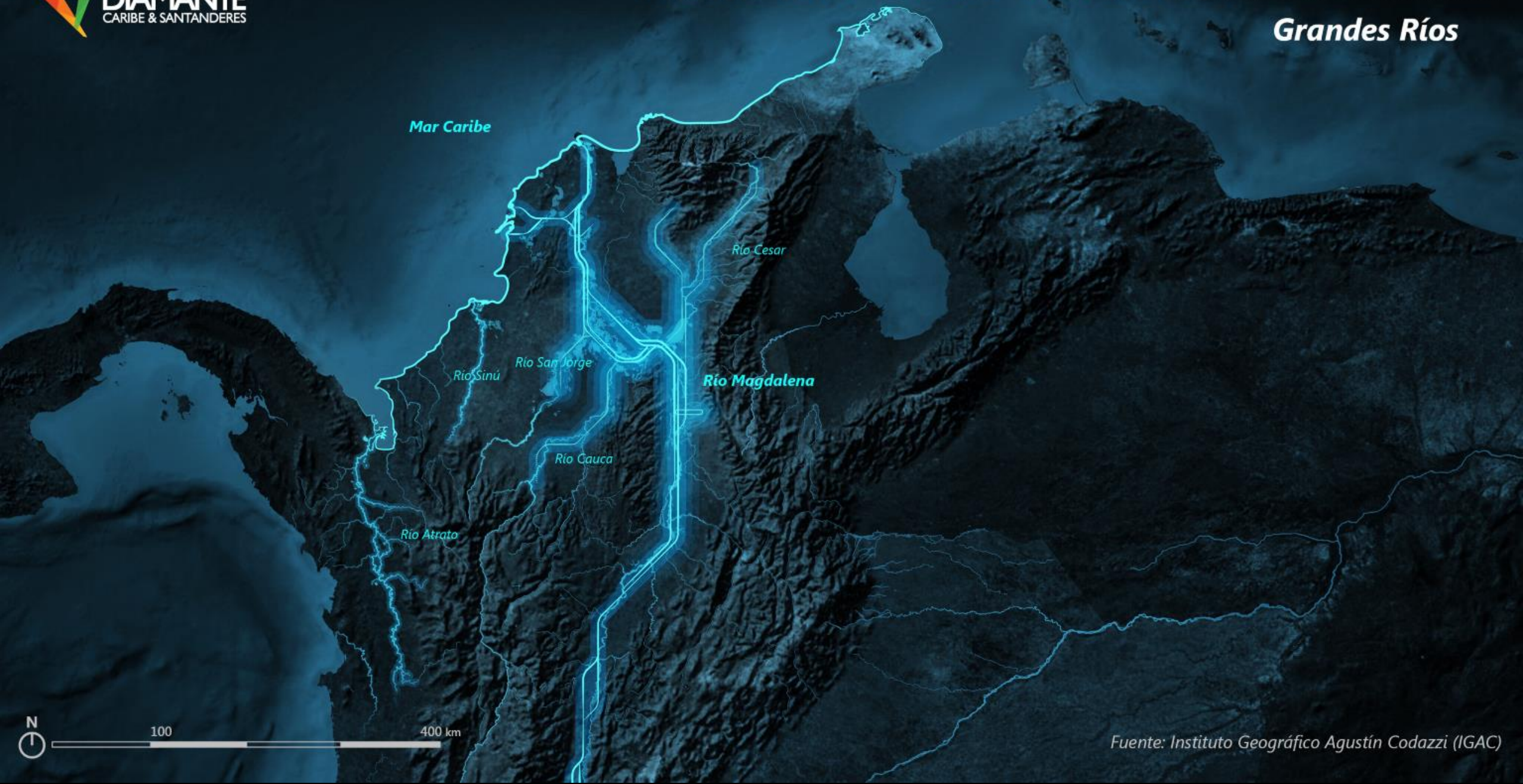
Población Ciudad

4.550.000		Barranquilla
3.995.000		Cartagena
2.800.000		Sta Marta
2.345.000		Sincelejo
2.145.000		Cúcuta
1.992.000		Montería
1.657.000		Bucaramanga
1.387.000		Barrancabermeja
978.000		Valledupar
727.000		Riohacha
535.000		Apartadó-Turbo

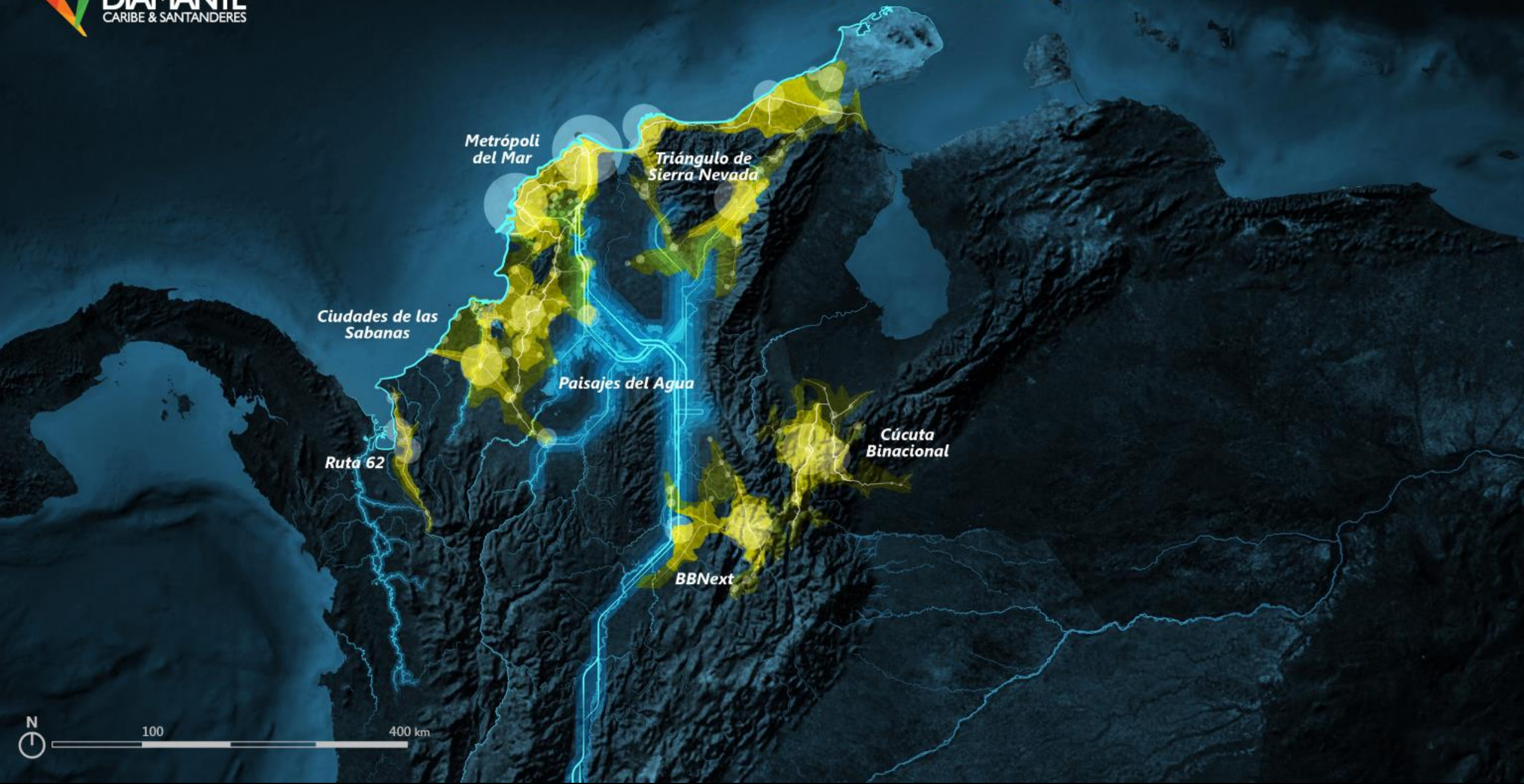
Hacia un Modelo Territorial Policéntrico

Las ciudades y la reducción de la pobreza



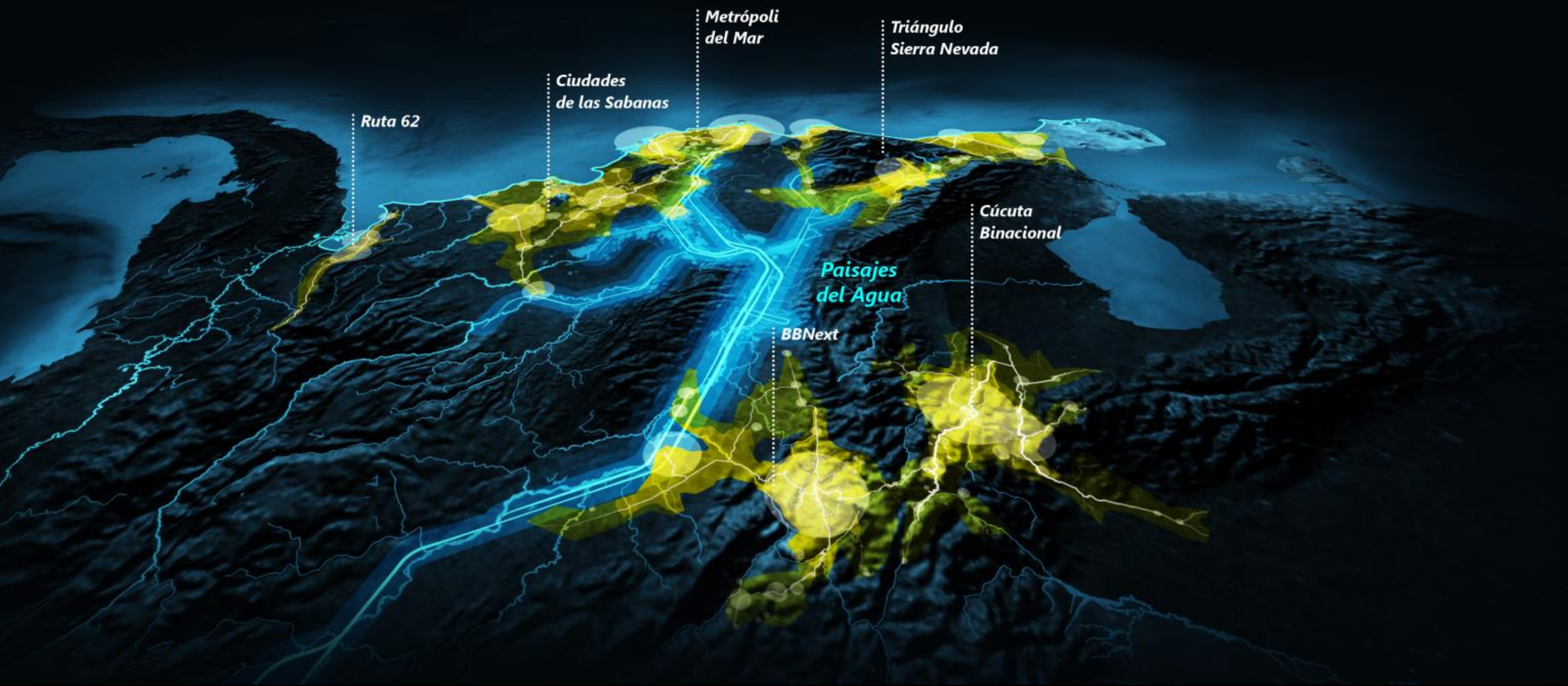


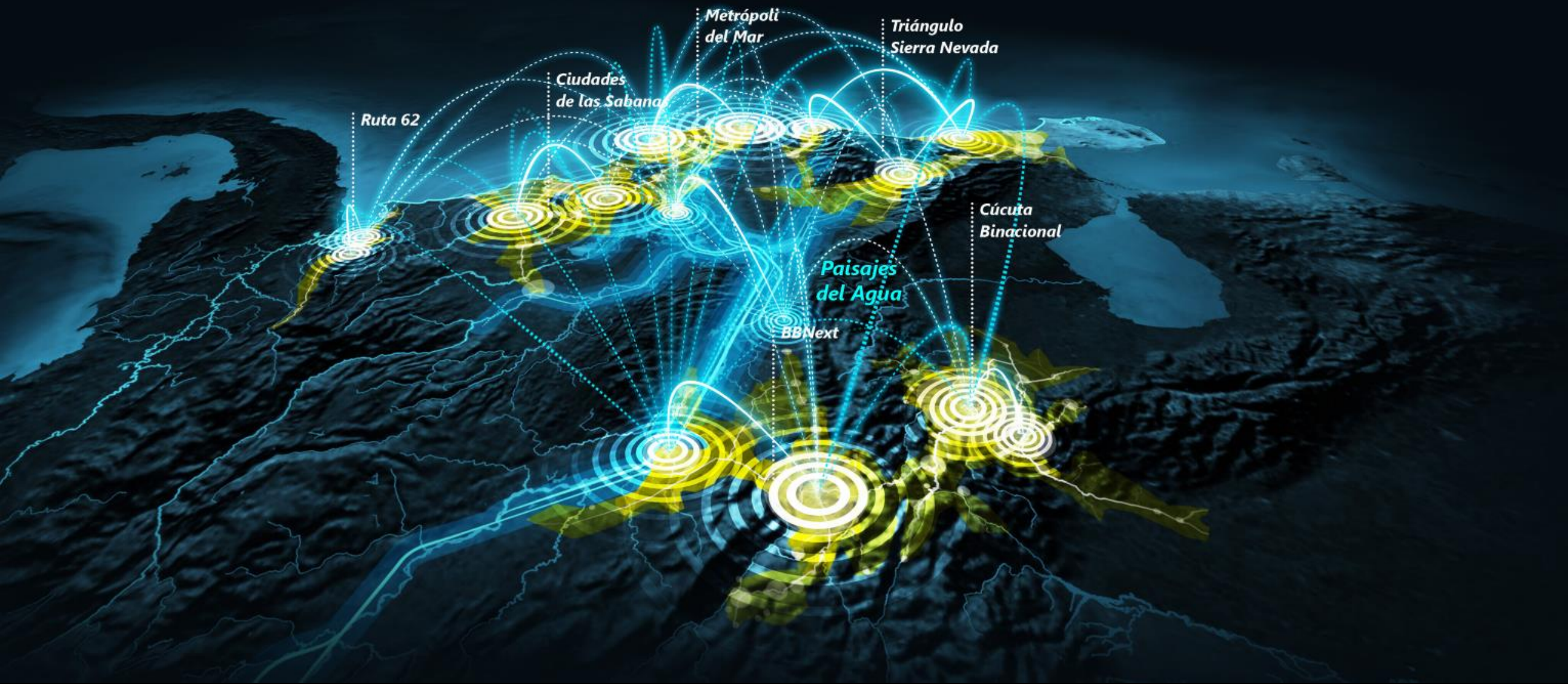
Las Áreas Funcionales del Territorio



Hacia un Modelo Territorial Policéntrico

Sistemas Urbanos Intermedios







DIAMANTE

CARIBE & SANTANDERES

1º Seminario de Líderes Diamante
Findeter @ Ecobox

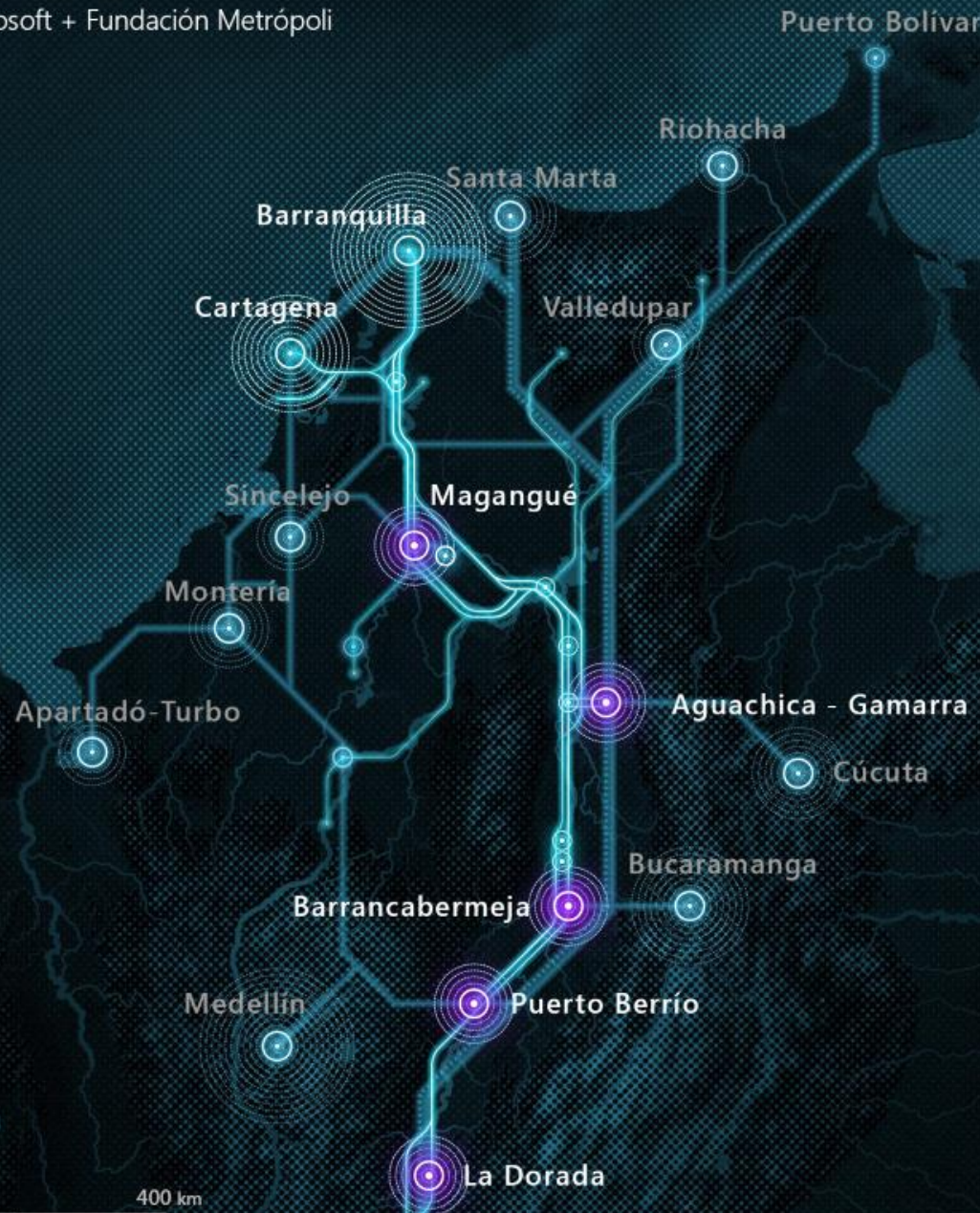






Magdalena PLUS

Conexión Terrestre



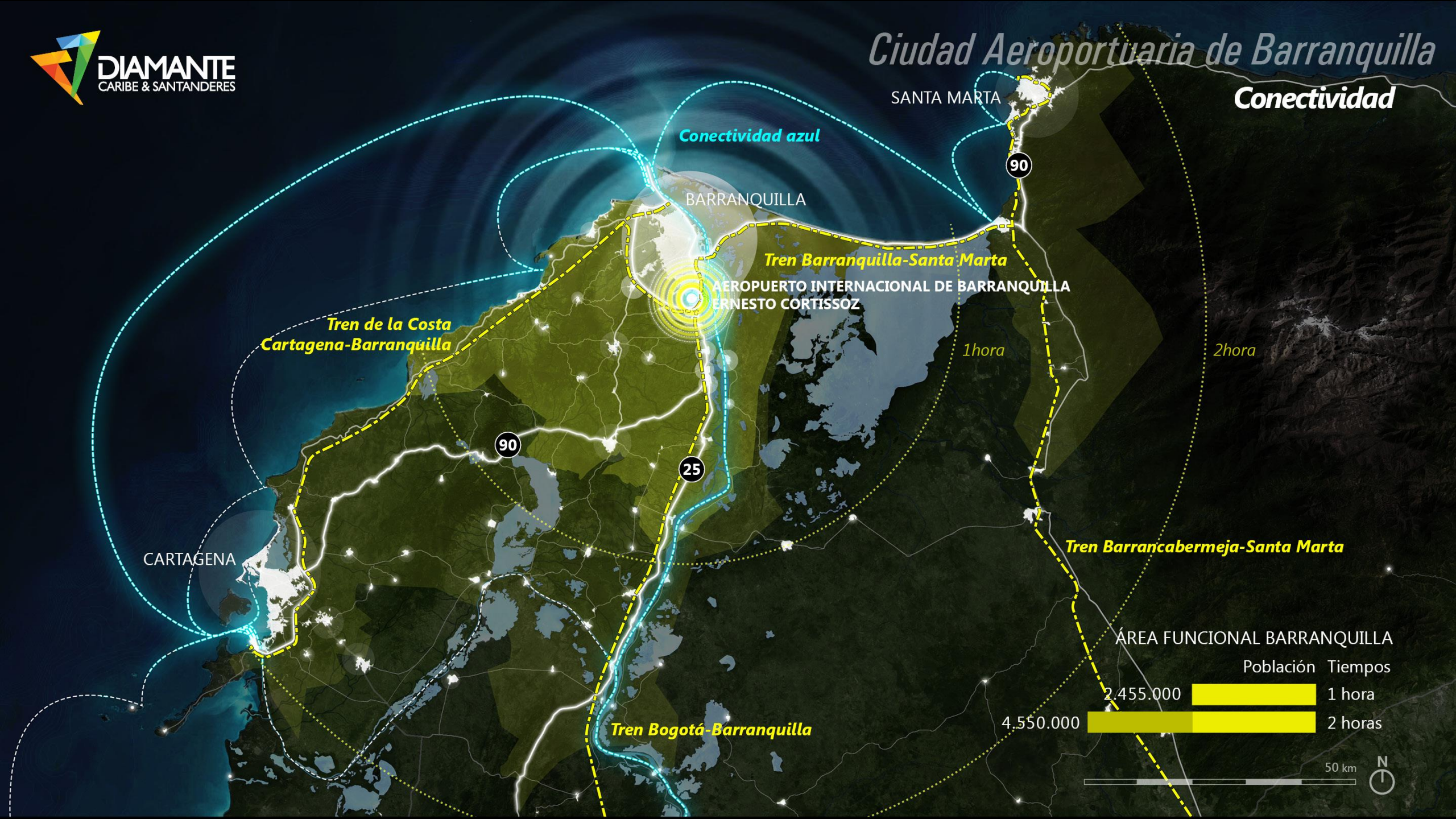


Capacidad de atracción de la
inversión privada internacional

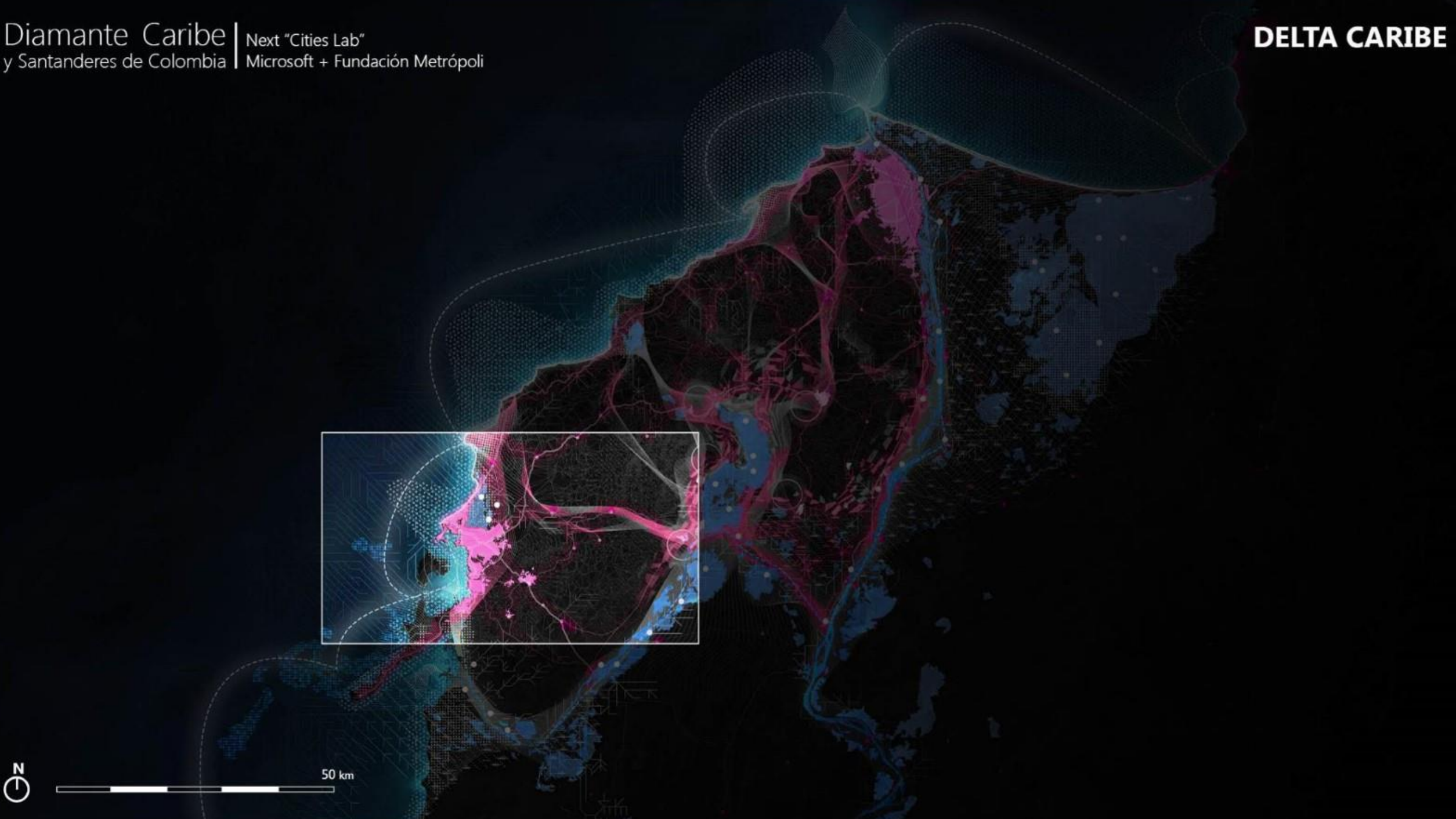
Resultados CP03
Cauce de Participación Institucional
A. Estrategias de Ecodesarrollo
Foro de líderes

**METRÓPOLI
DEL MAR**









Cartagena *Bolívar*

LOCALIZACIÓN

Cartagena :

Bayunca

Turbaco



Cartagena *Bolívar*

SISTEMA AMBIENTAL

Ciénaga de la Virgen

La boquilla

Popa

Tierra Bomba

Isla Barú



Cartagena *Bolívar*

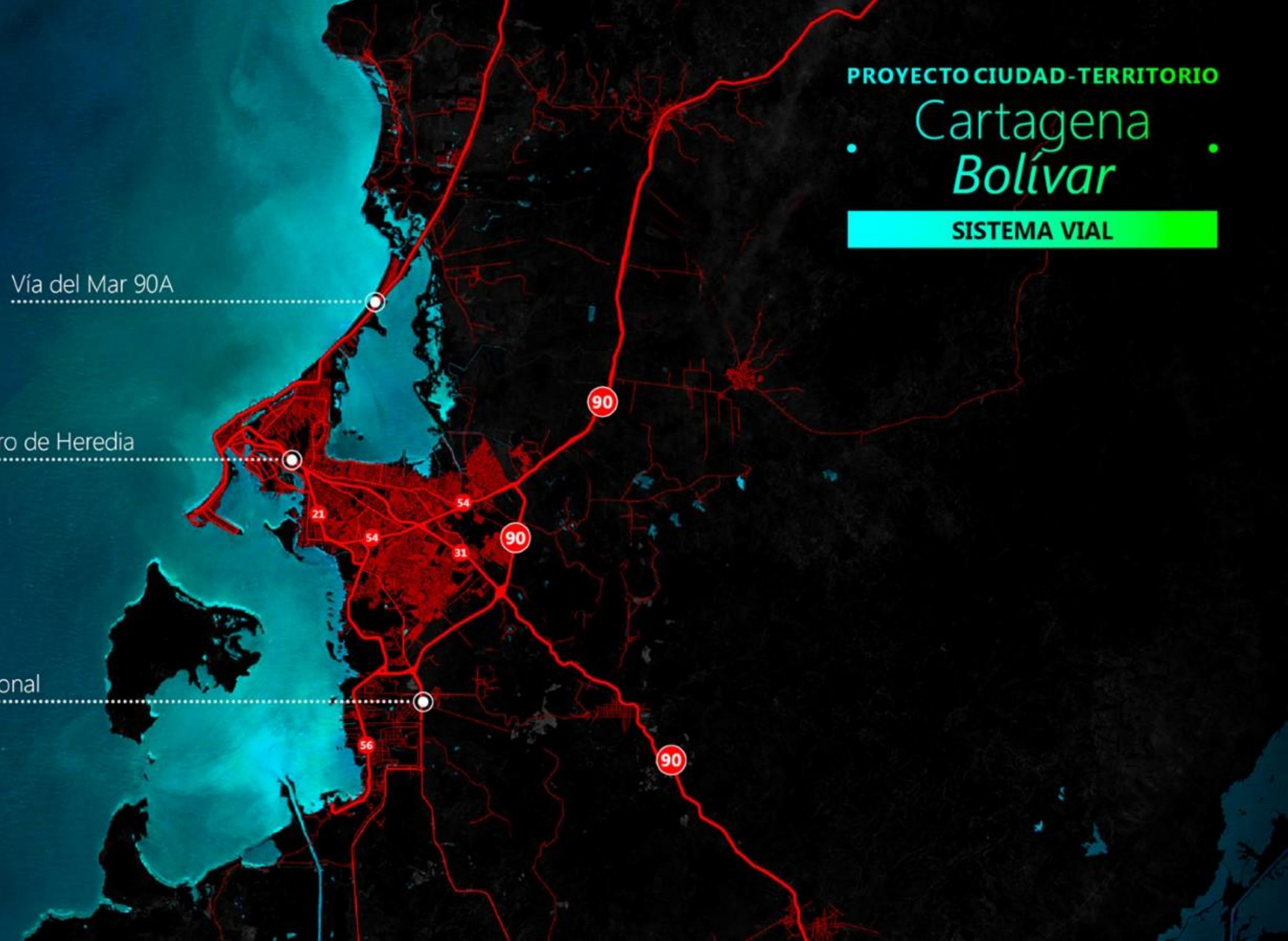
SISTEMA VIAL

Vía del Mar 90A

Avenida Pedro de Heredia

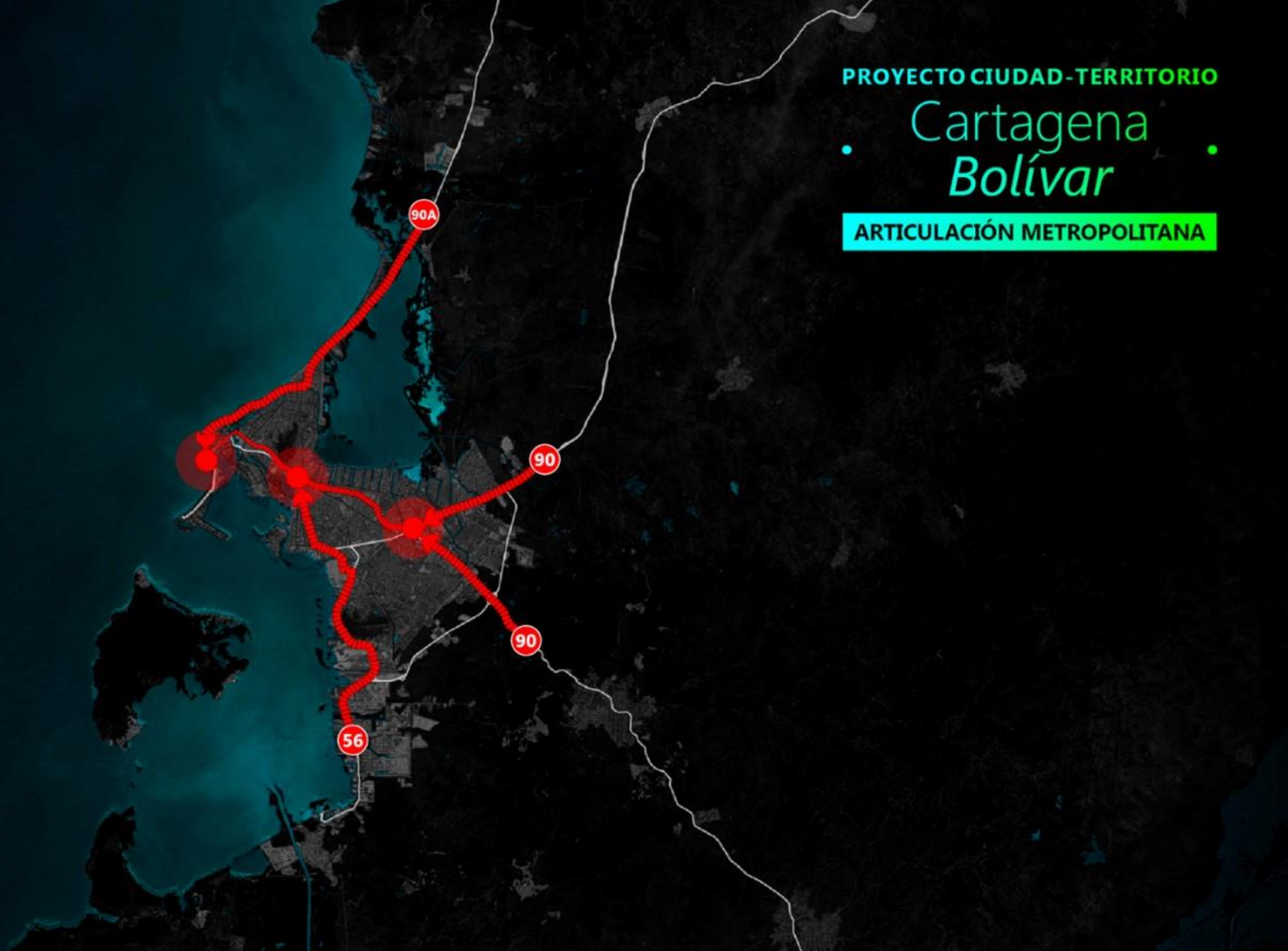
Vía Mamonal

SISTEMA VIAL



Cartagena
Bolívar

ARTICULACIÓN METROPOLITANA



Cartagena *Bolívar*

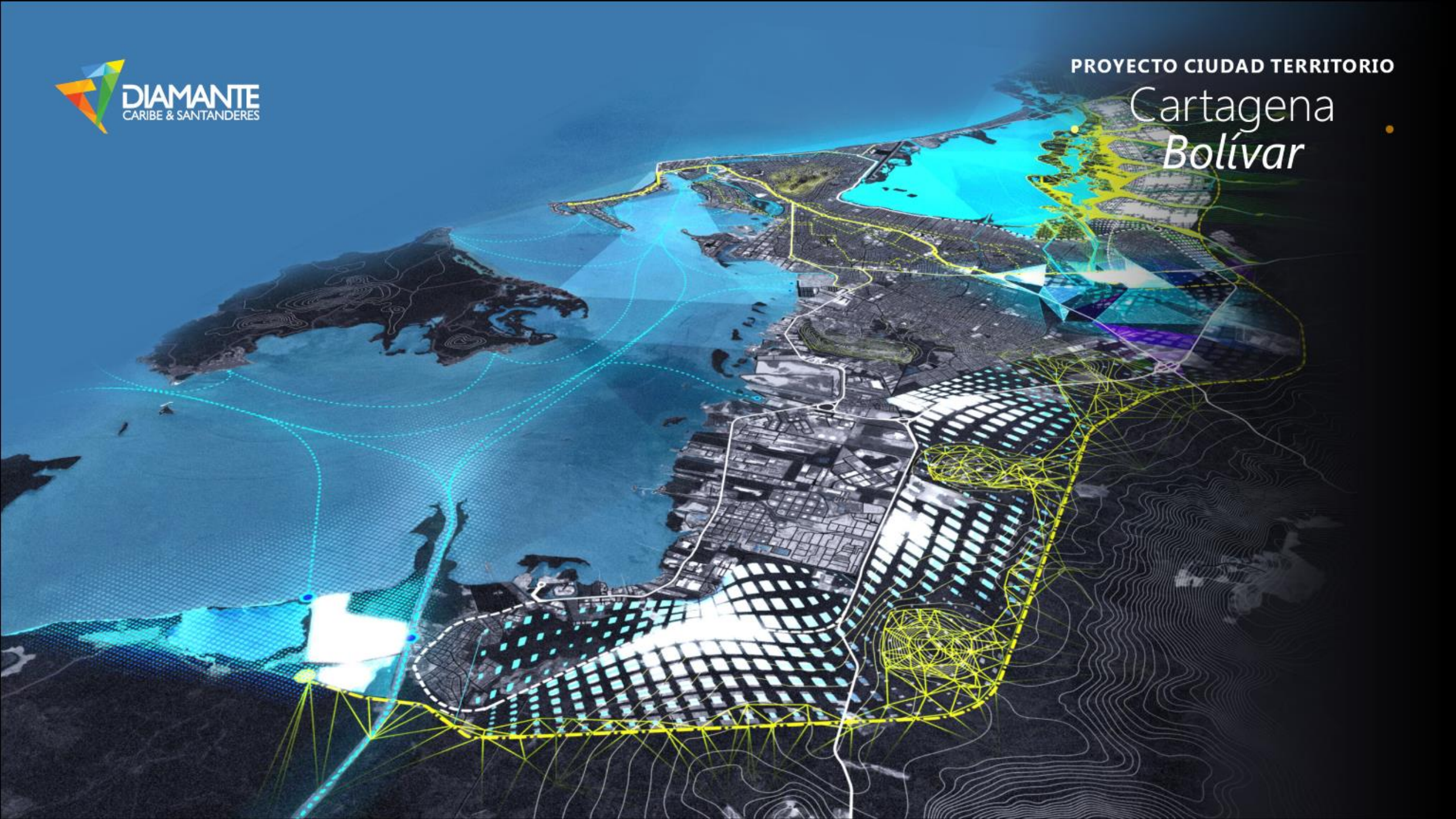
ARTICULACIÓN METROPOLITANA

Ronda Norte

Ronda Sur



Cartagena
Bolívar





Localización

Casco Histórico	4,6km
Base Naval	3,0km
Bocagrande	9,6km
Isla de Manga	8,5km
Bazarro	3,5km
Manzanillo	7,3km
El Bosque	8,1km

FRENTE COSTERO 44,6km

Casco Histórico	118Ha
Base Naval	35Ha
Bocagrande	188Ha
Isla de Manga	185Ha
Bazarro	141Ha
Manzanillo	82Ha
El Bosque	215Ha

ÁREA URBANA 964Ha

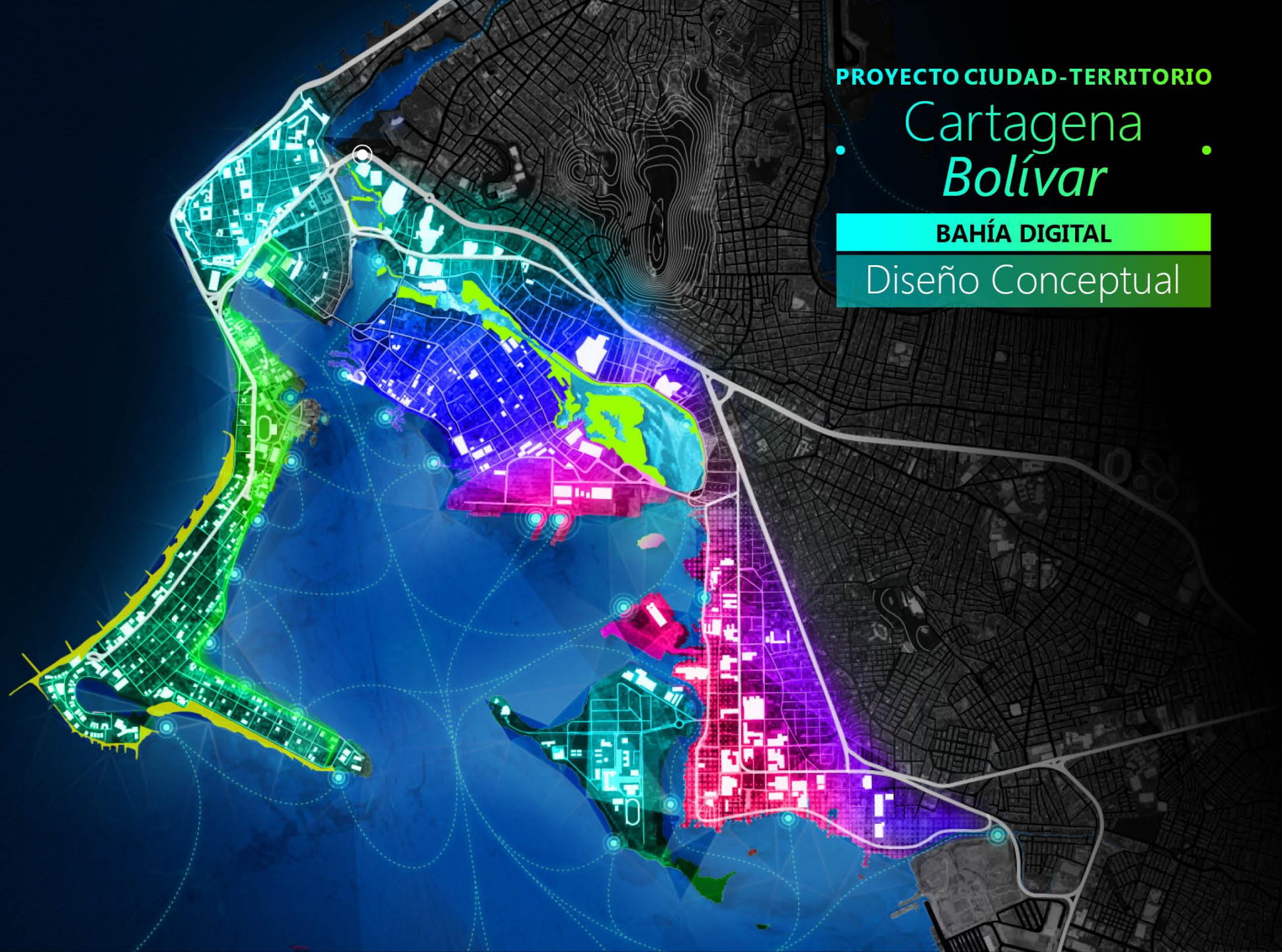


PROYECTO CIUDAD-TERRITORIO

Cartagena *Bolívar*

BAHÍA DIGITAL

Diseño Conceptual



Cartagena *Bolívar*

BAHÍA DIGITAL

Accesibilidad Relacional

Avenida Pedro de Heredia

Transversal 17

Carrera 22

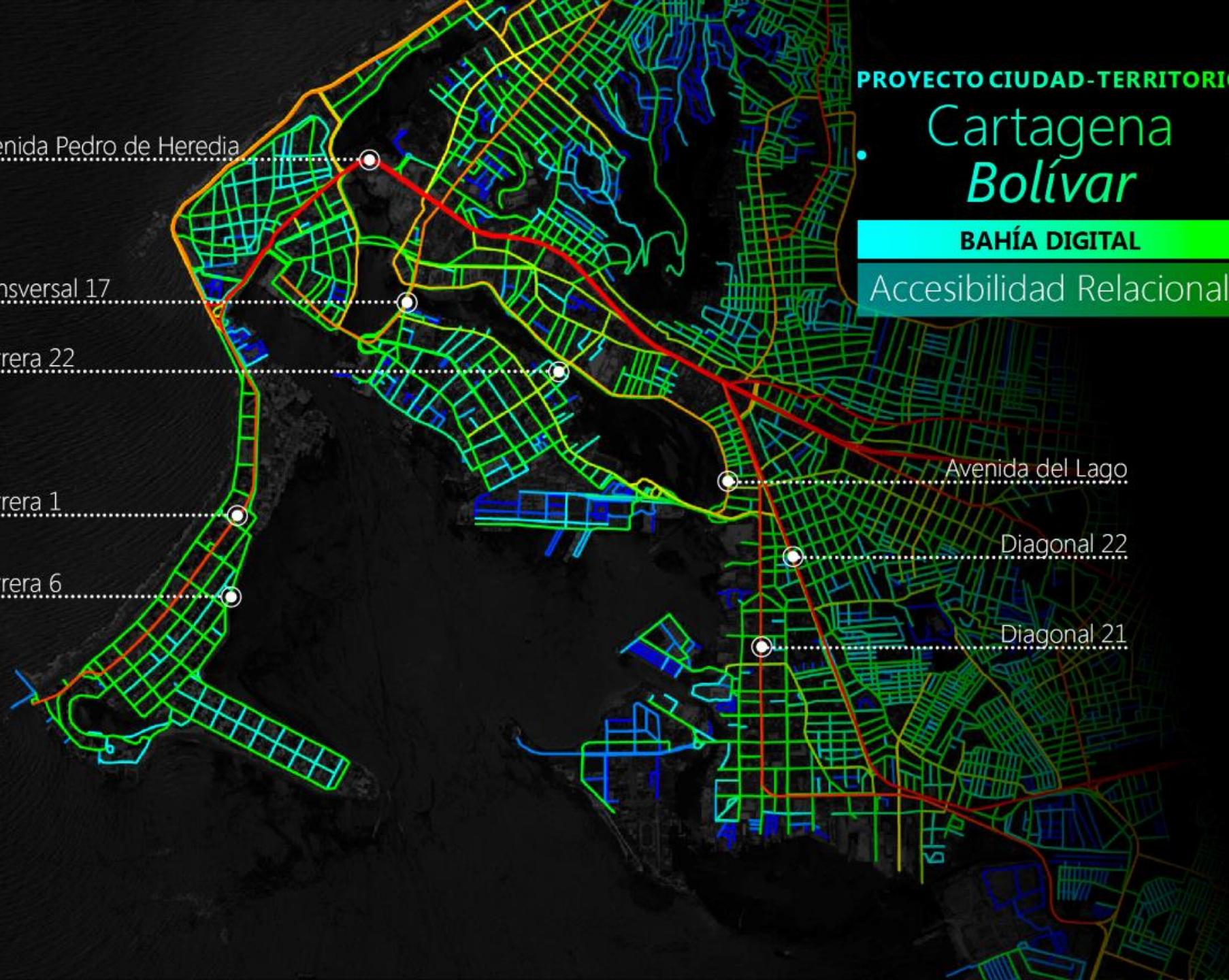
Carrera 1

Carrera 6

Avenida del Lago

Diagonal 22

Diagonal 21



Cartagena *Bolívar*

BAHÍA DIGITAL

Ecobulevar
Pedro de Heredia

Getsemaní

Isla de Manga

Base Naval

Fachada Marítima

Mercado de Bazurto

Caño Bazurto

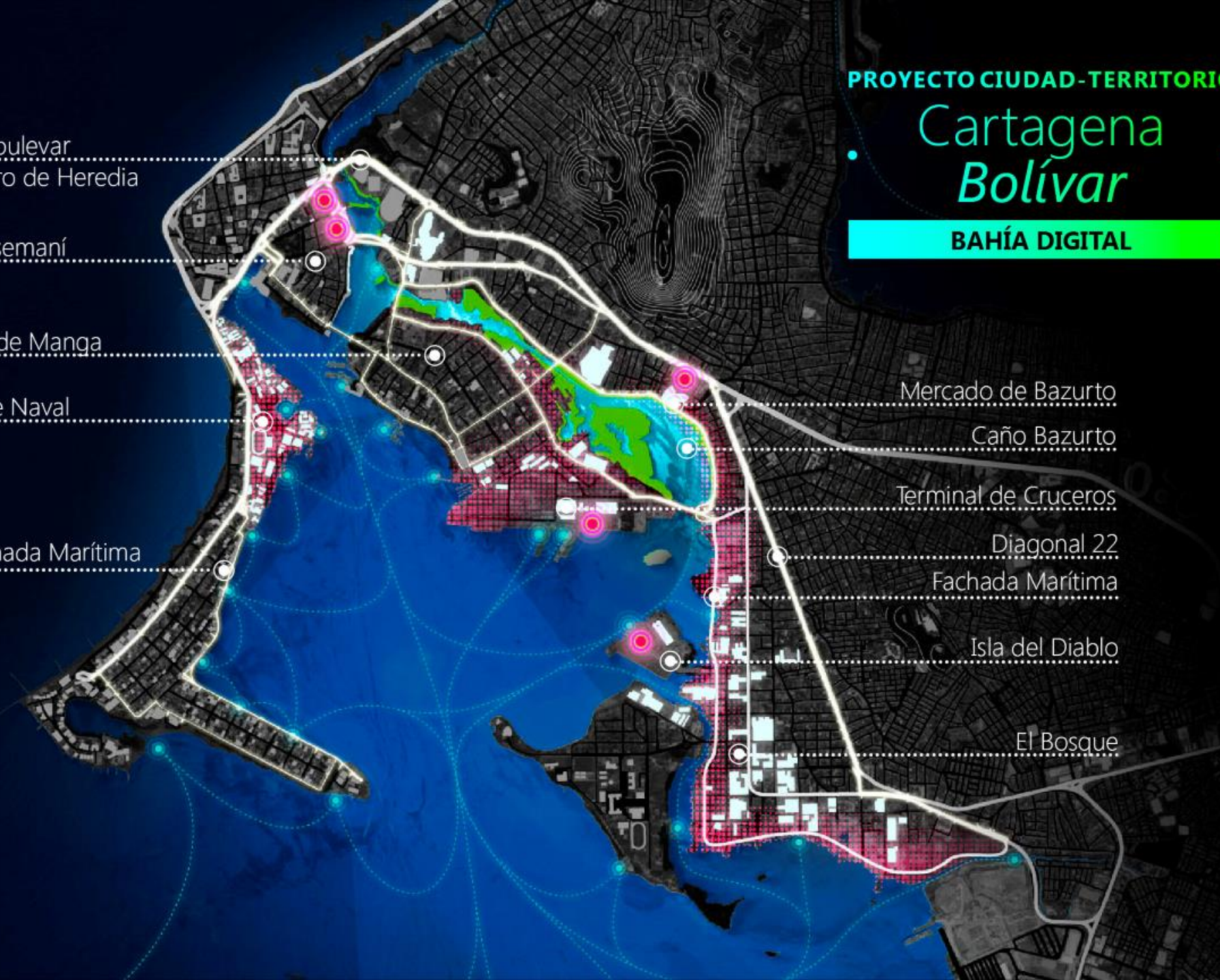
Terminal de Cruceros

Diagonal 22

Fachada Marítima

Isla del Diablo

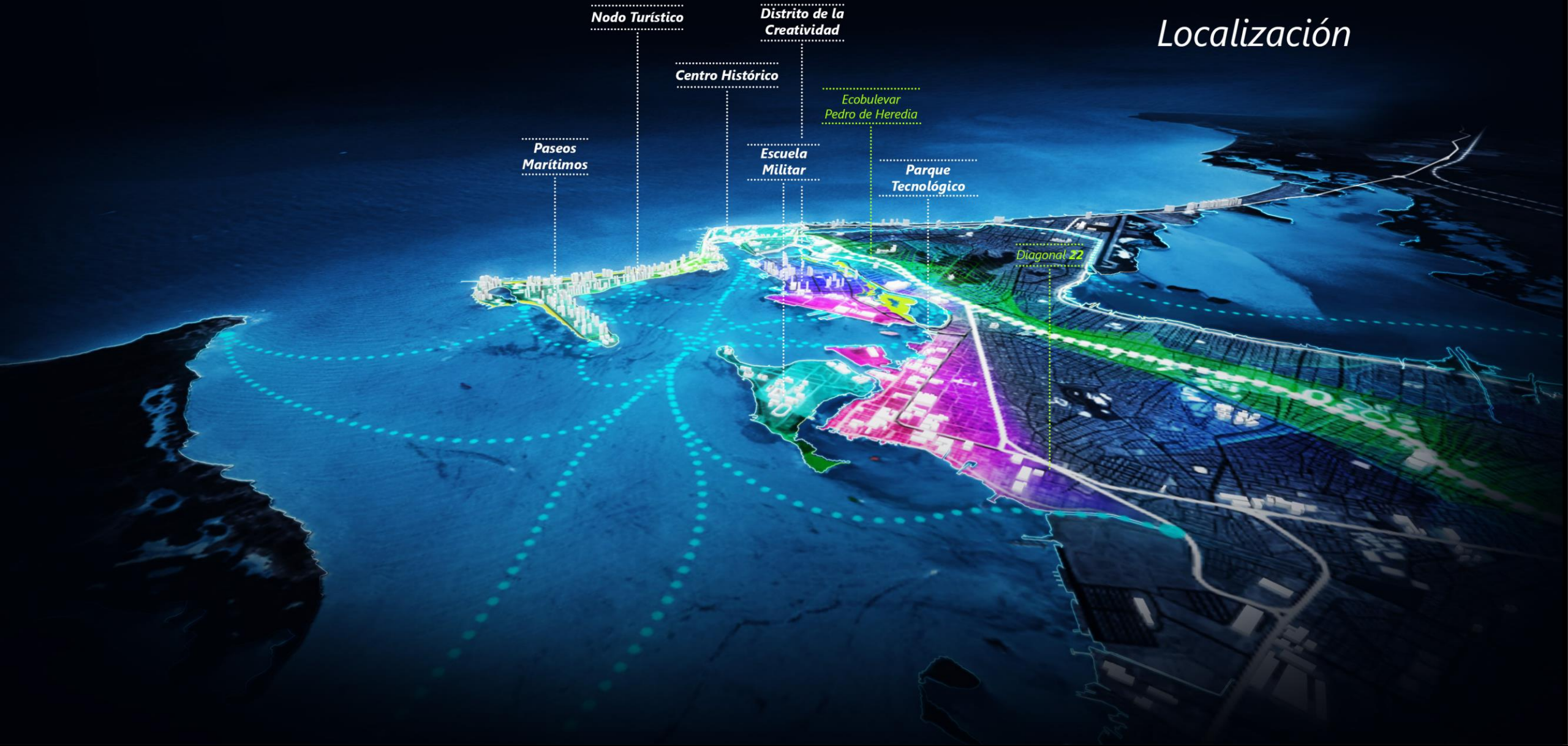
El Bosque



Ecosistemas de Innovación

Bahía LAB

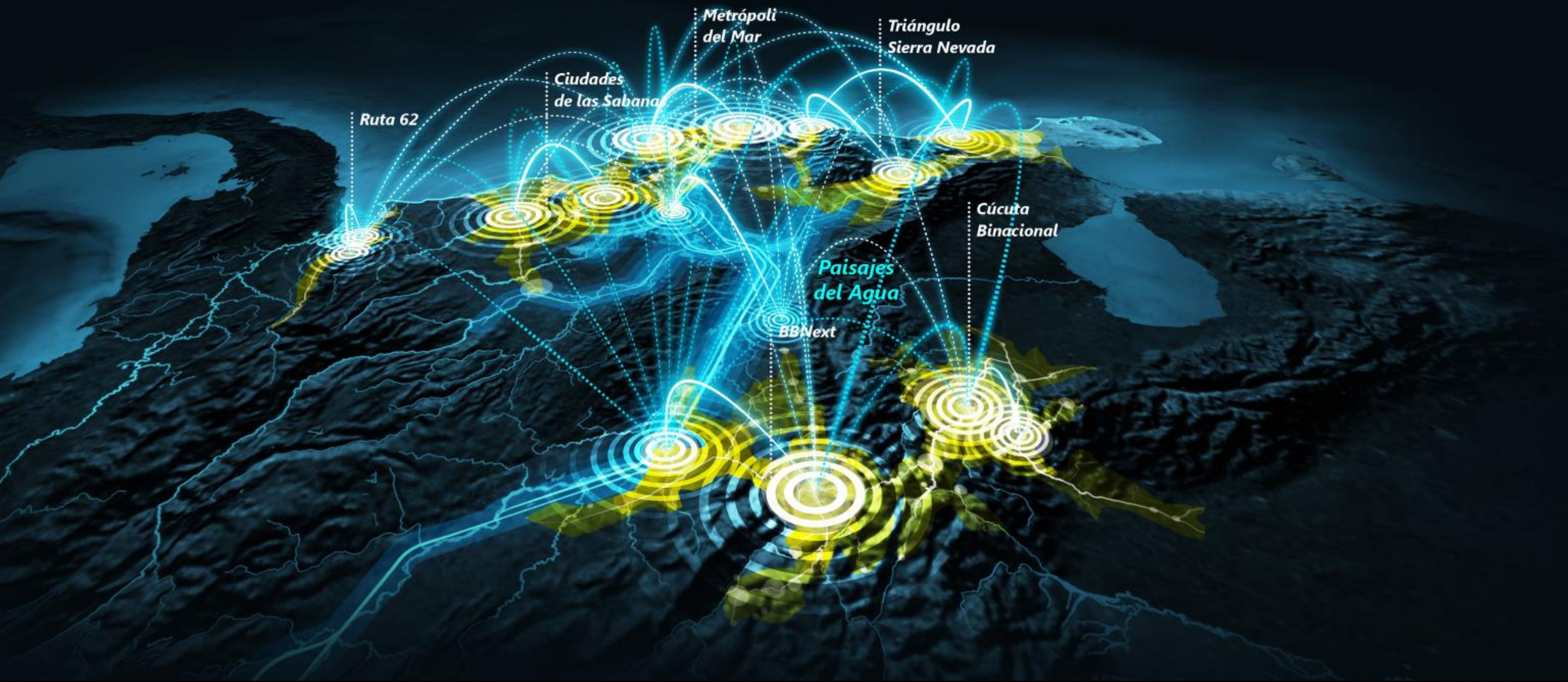
Localización





Barranquilla
Atlántico








DIAMANTE

CARIBE & SANTANDERES

 MINHACIENDA

Findeter
Financiera del Desarrollo 

 **TODOS POR UN
NUEVO PAÍS**
PAZ EQUIDAD EDUCACIÓN

Next Cities Lab

 Microsoft

TTI FUNDACIONMETROPOLI

CITIES IN EVOLUTION

THE POWER OF MEGA EVENTS

1. A World of Cities
2. Supercities and Territorial Diamonds
3. Colombian Peace Process and the Caribbean Diamond
4. **25 Years after Barcelona Olympics**
5. Tokyo 2020. Technology for Future Cities



OLIMPIA
anyS



25 YEARS AFTER BARCELONA OLYMPICS BARCELONA 1992



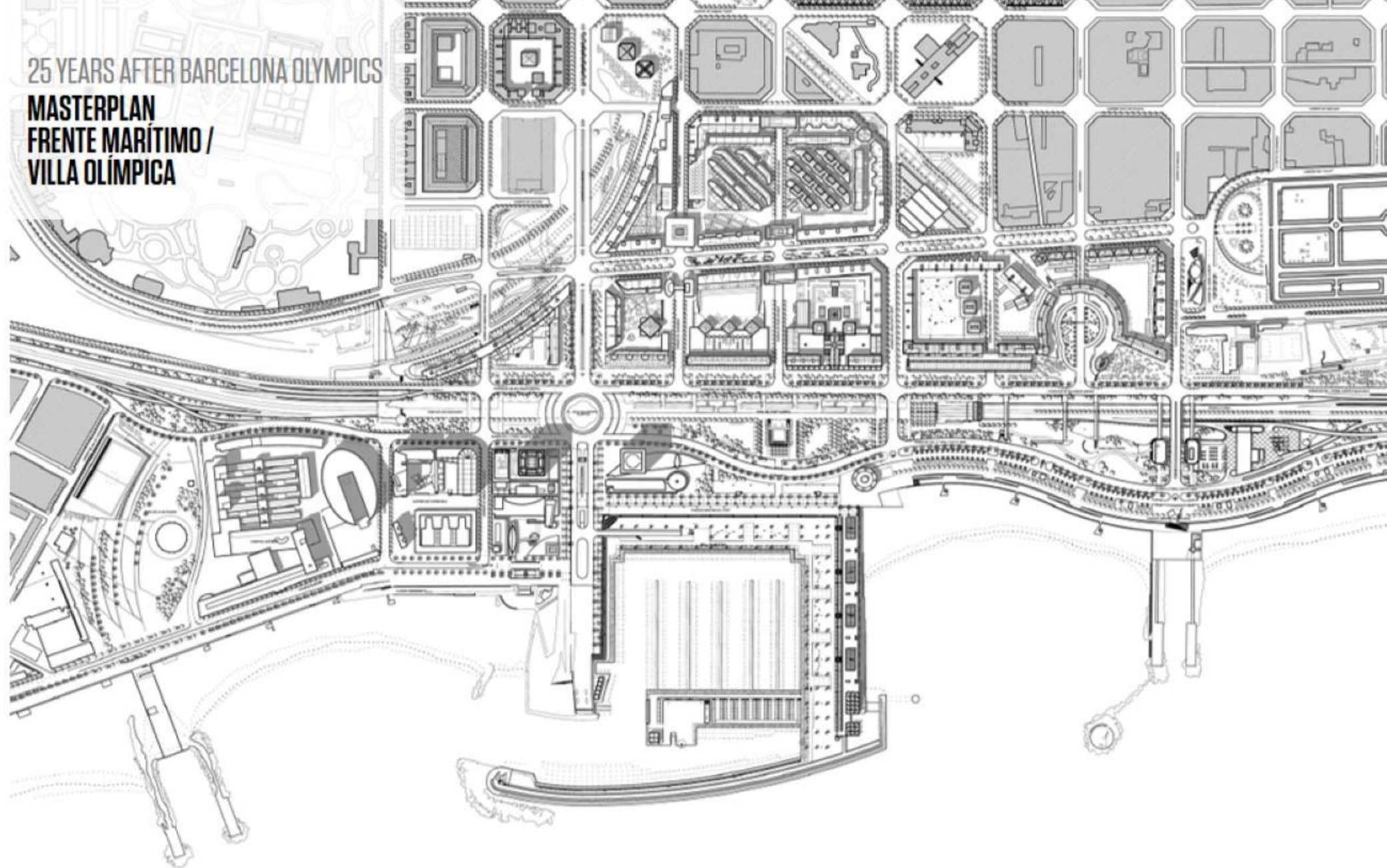
Inauguración JJOO Barcelona. Año 1992



Comemoración 25 años JJOO Barcelona. Año 2017

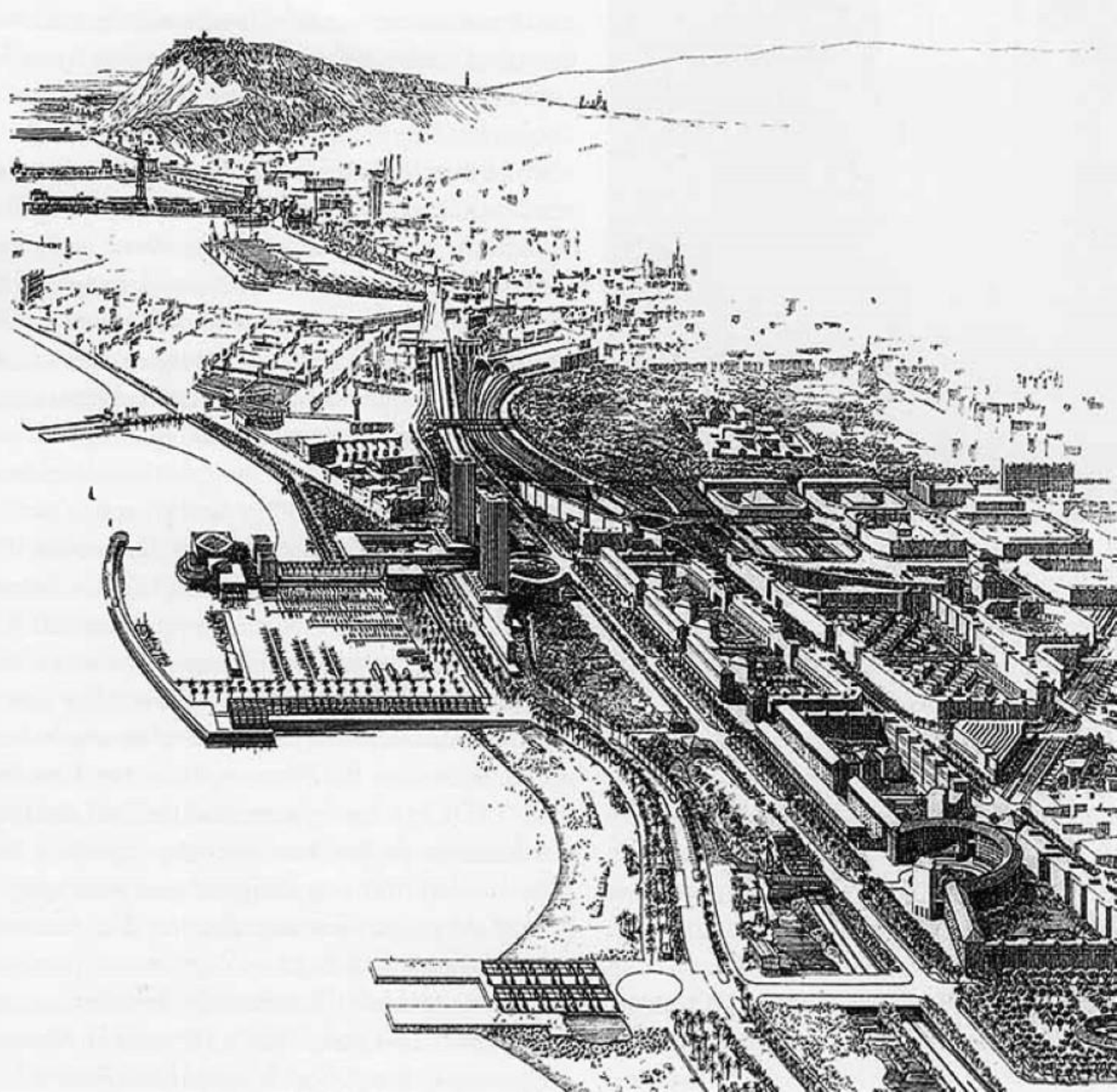


25 YEARS AFTER BARCELONA OLYMPICS
**MASTERPLAN
FRENTE MARÍTIMO /
VILLA OLÍMPICA**





25 YEARS AFTER BARCELONA OLYMPICS
**MASTERPLAN
FRENTE MARÍTIMO /
VILLA OLÍMPICA**





25 YEARS AFTER BARCELONA OLYMPICS
**MASTERPLAN
FRENTE MARÍTIMO /
VILLA OLÍMPICA**



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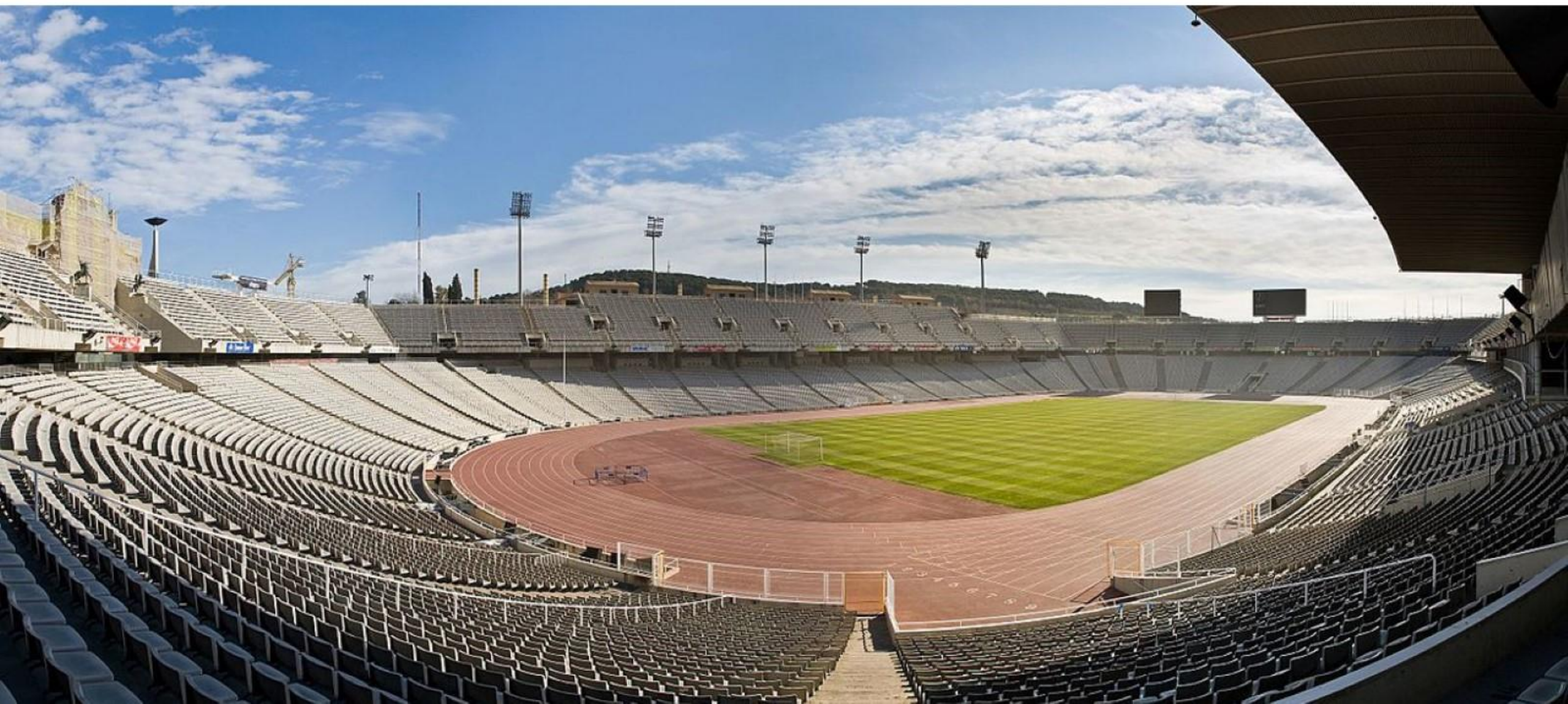


25 YEARS AFTER BARCELONA OLYMPICS VILLA OLÍMPICA



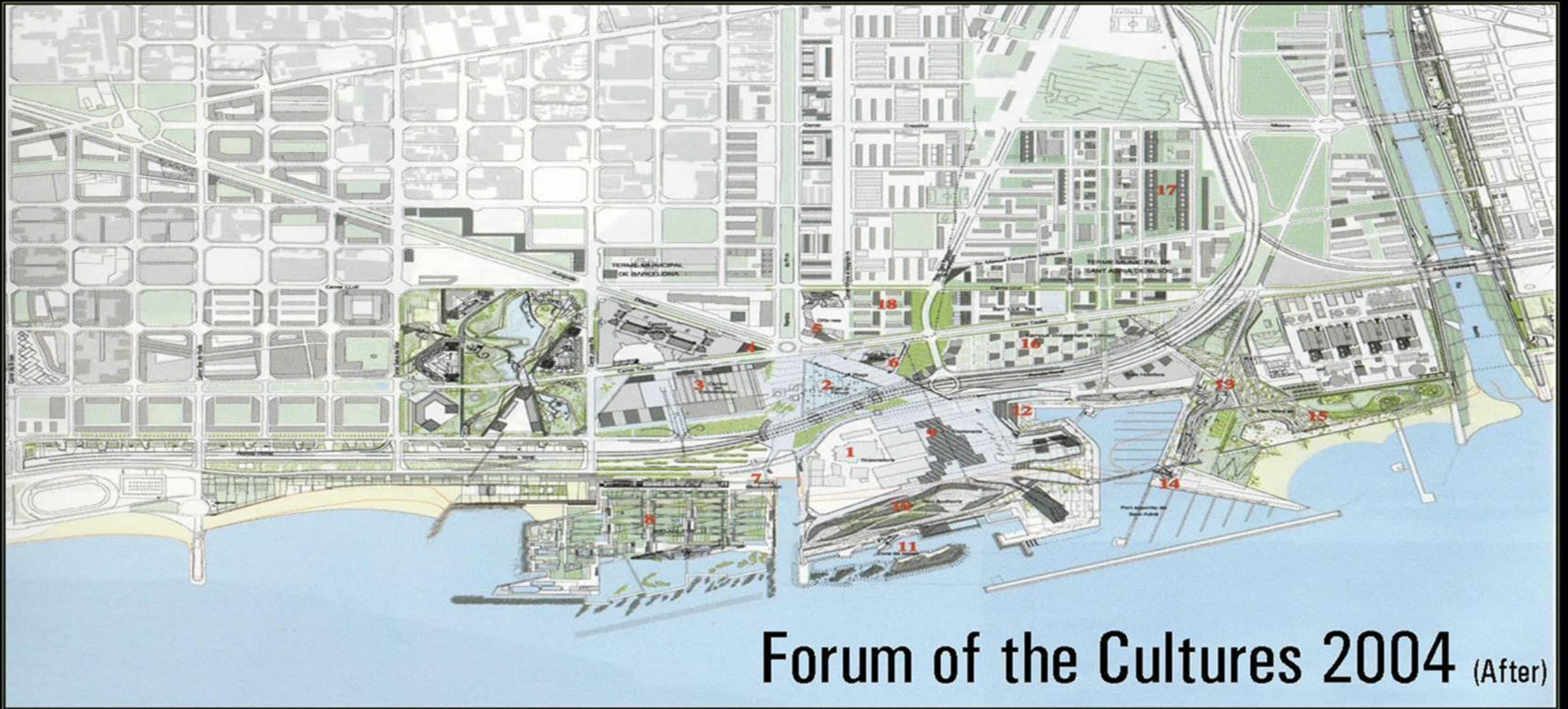


25 YEARS AFTER BARCELONA OLYMPICS
ESTADIO OLÍMPICO





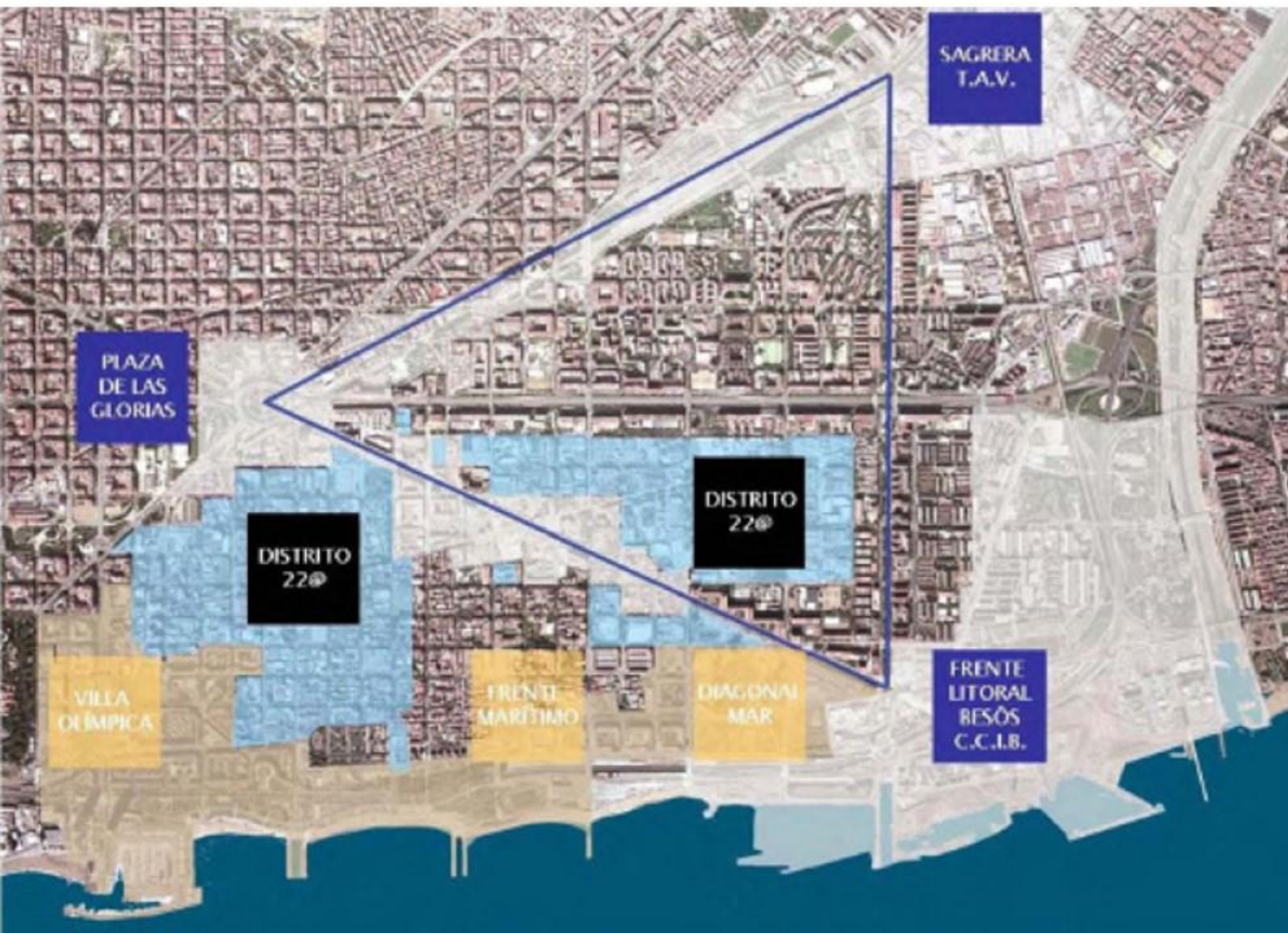
Forum of the Cultures 2004 (Before)



Forum of the Cultures 2004 (After)



25 YEARS AFTER BARCELONA OLYMPICS ESTRATEGIA DE RENOVACIÓN URBANA



Waterfront and Innovation District





25 YEARS AFTER BARCELONA OLYMPICS BARCELONA 22@





25 YEARS AFTER BARCELONA OLYMPICS
BARCELONA 22@



CITIES IN EVOLUTION

THE POWER OF MEGA EVENTS

1. A World of Cities
2. Supercities and Territorial Diamonds
3. Colombian Peace Process and the Caribbean Diamond
4. 25 Years after Barcelona Olympics
5. **Tokyo 2020. Technology for Future Cities**

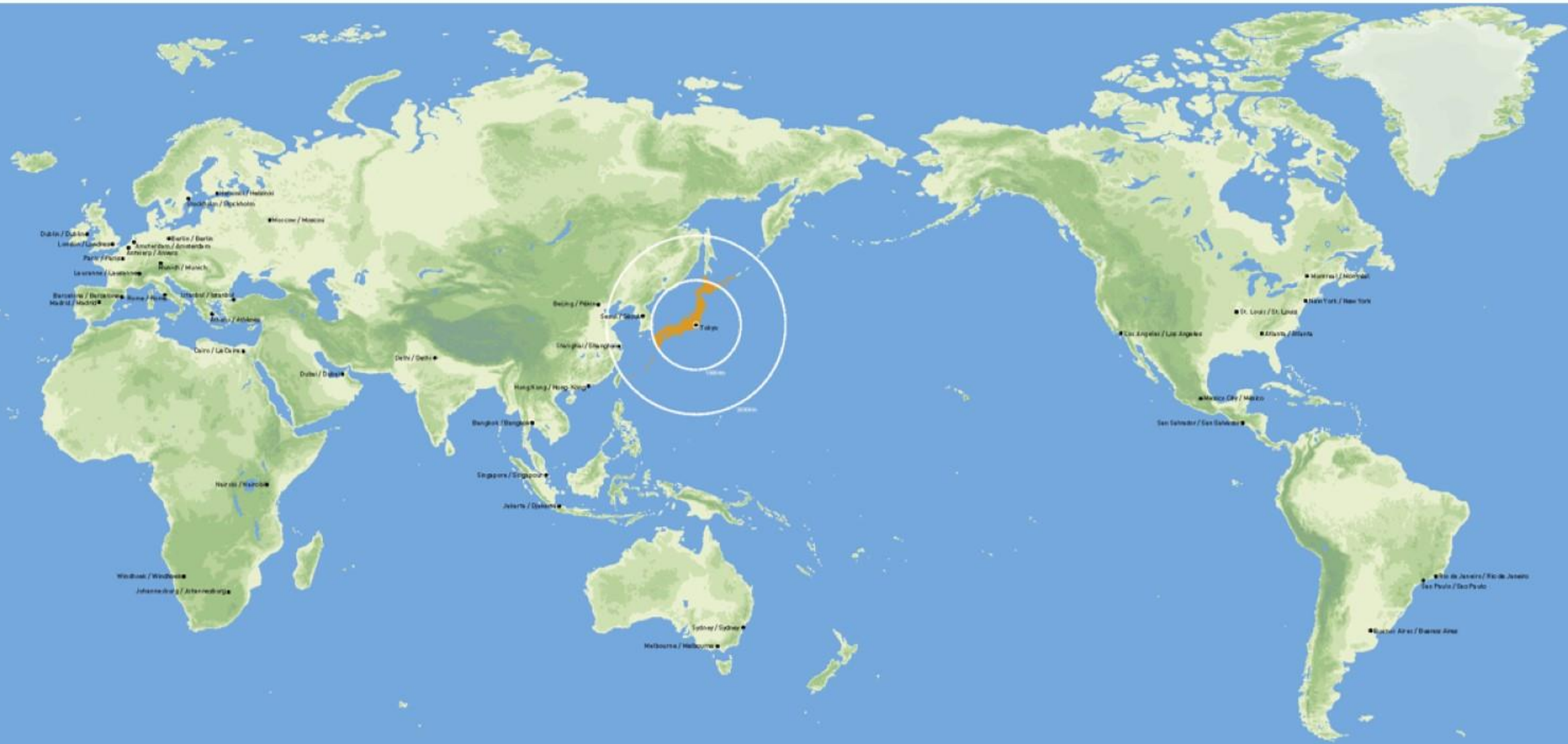
Tokyo 東京

TMI METROPOLIECOSYSTEMS
Building a Sustainable Future





TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES
LOCATION





Context Japan

Location



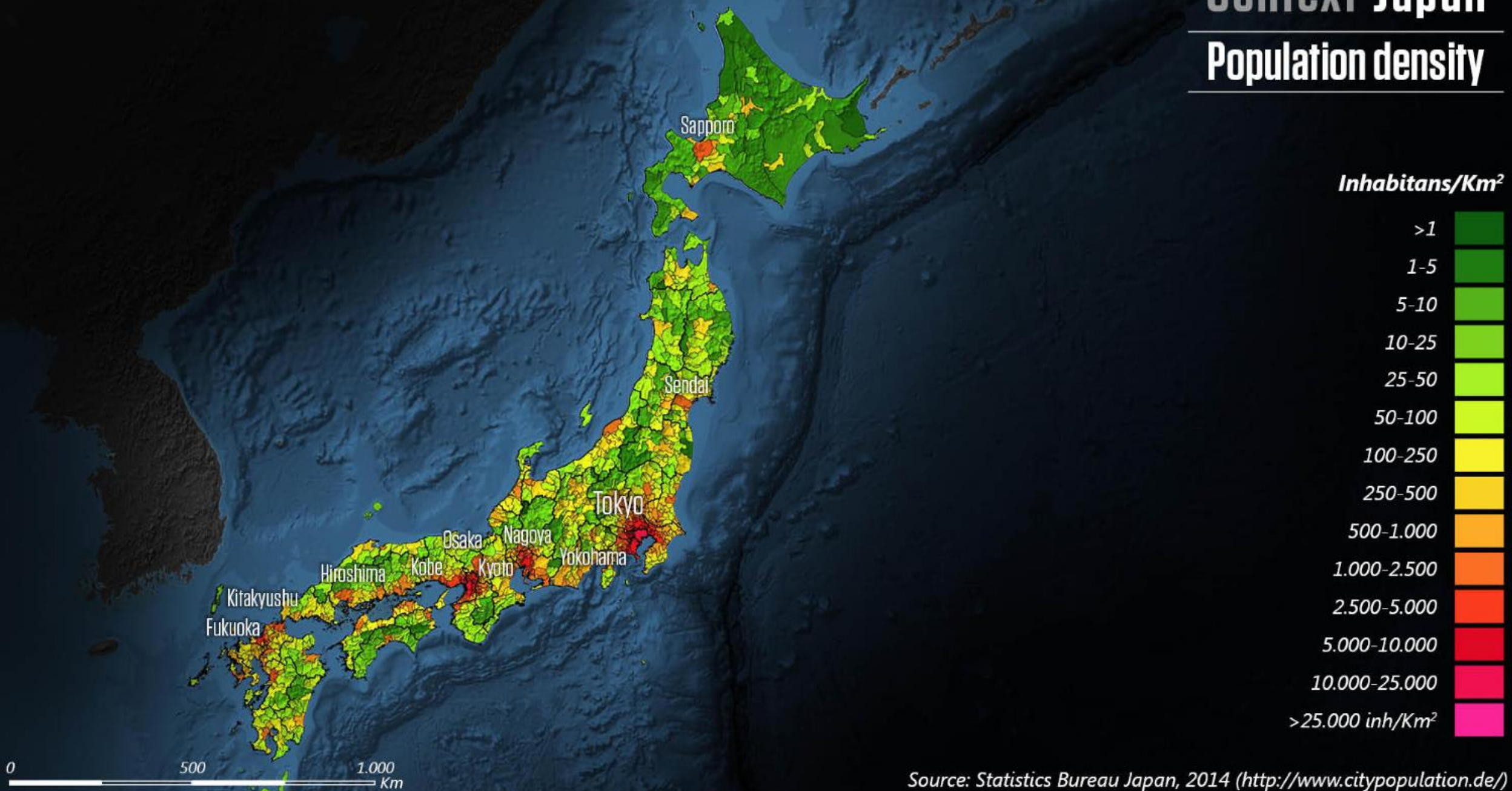
Context Japan

Orography



Context Japan

Population density



Source: Statistics Bureau Japan, 2014 (<http://www.citypopulation.de/>)

Kantō region



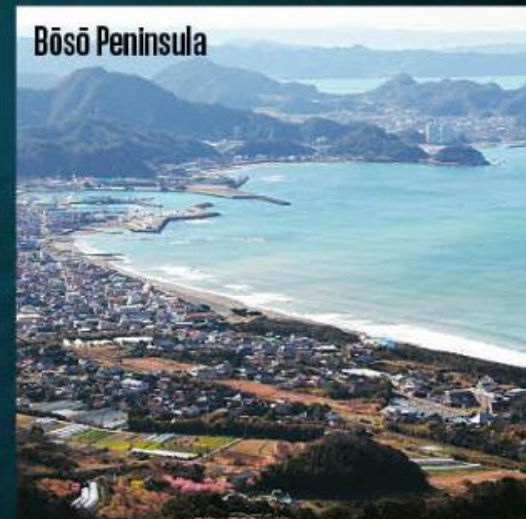
Kantō region

Location



Kantō region

Orography



Source: <http://www.diva-gis.org/>

Kantō region

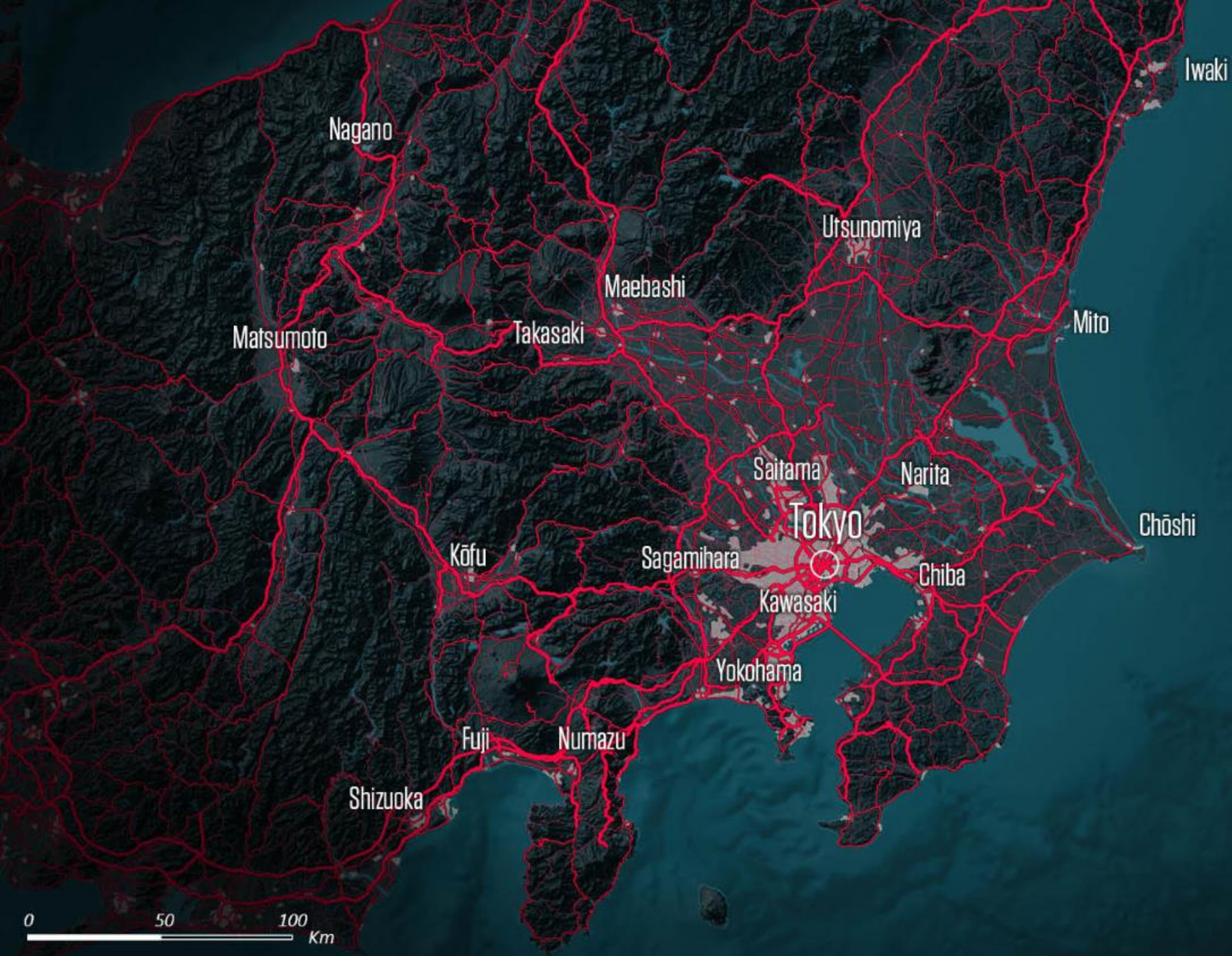
Population by Cities



Source: Statistics Bureau of Japan, 2014

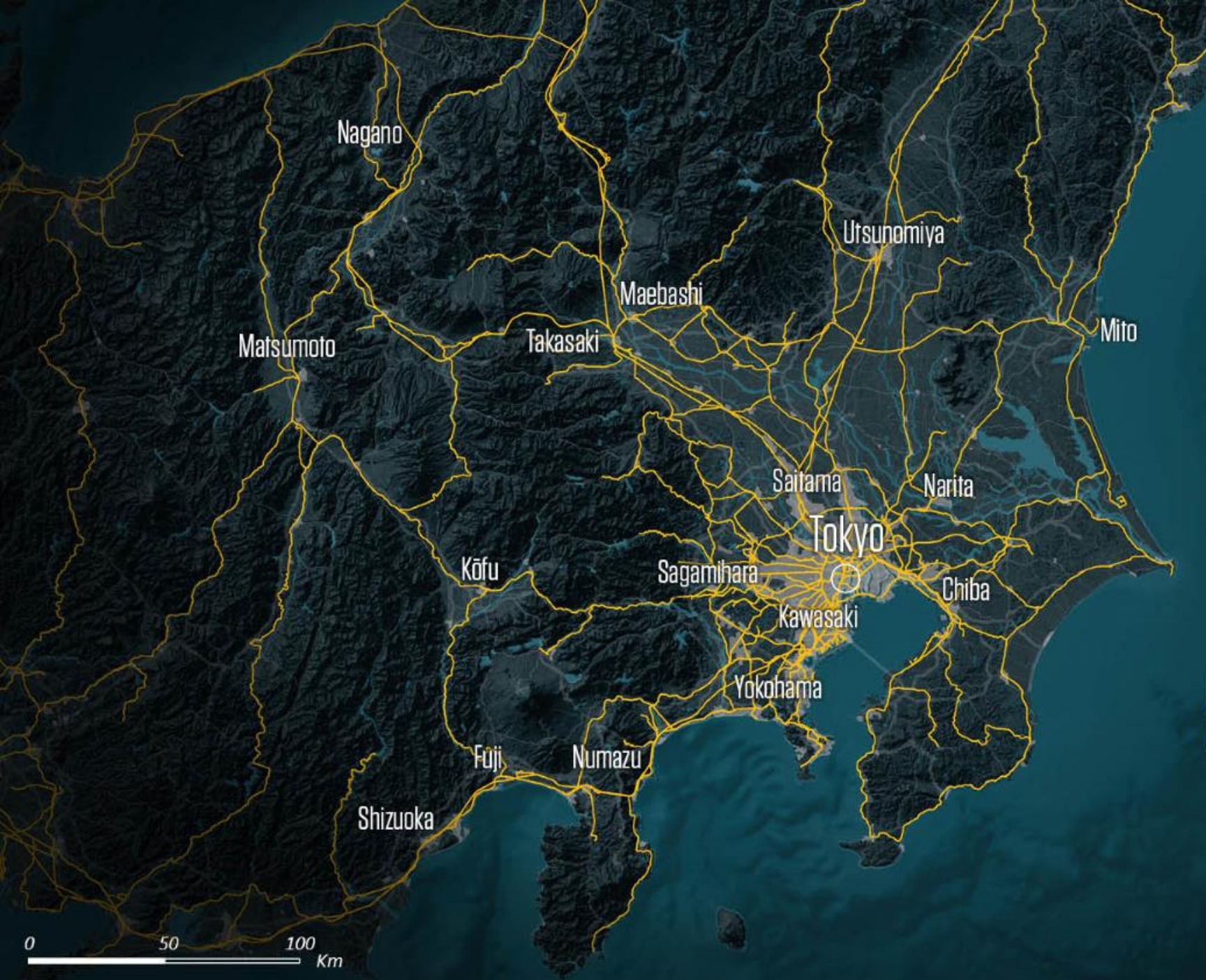
Kantō region

Road Network



Kantō region

Rail Network



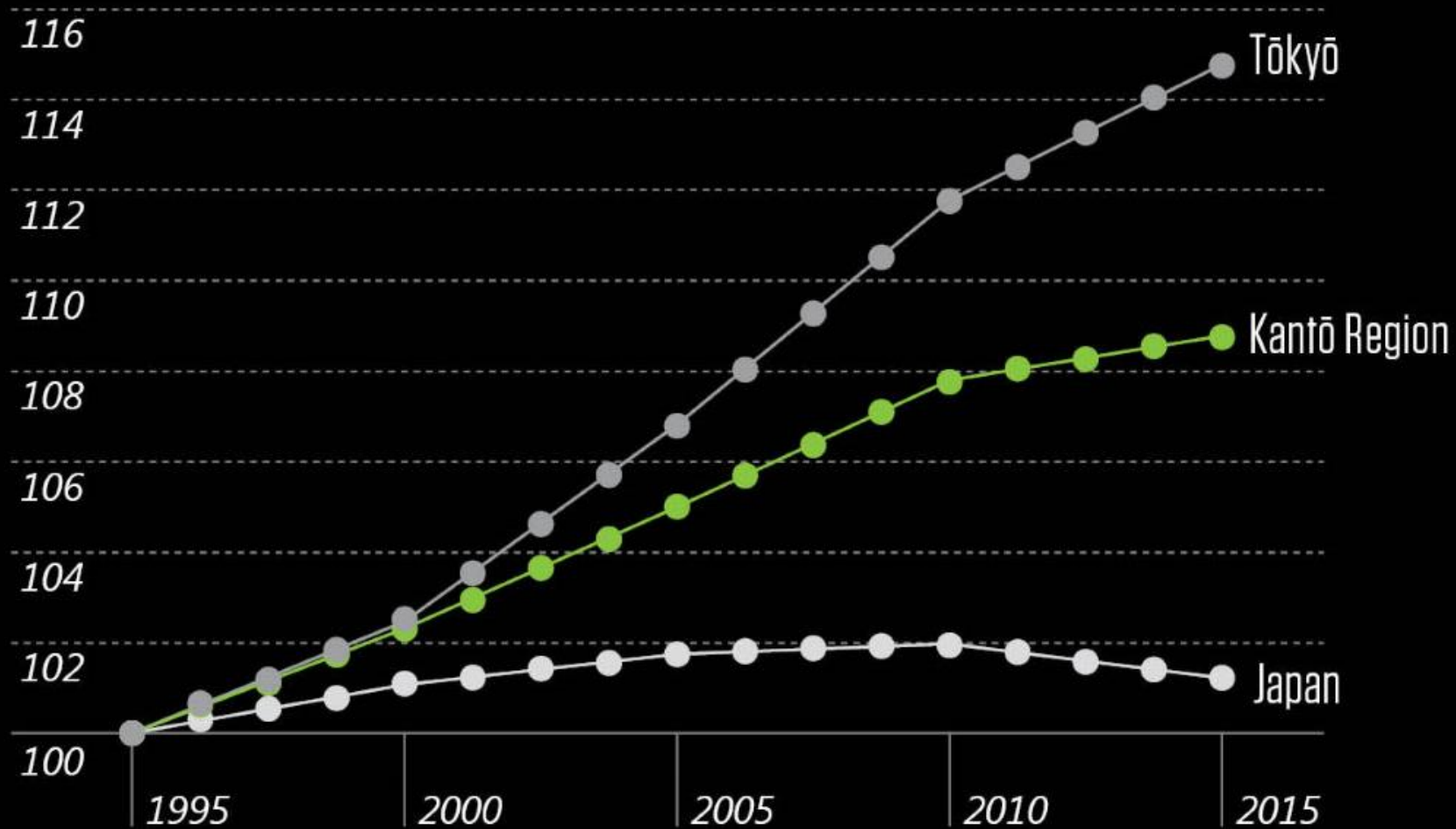
40 million passengers daily
882 interconnected rail stations
in the Tokyo Metropolis



Source: Urban Transport Fact Book

Kantō region Population Growth

Index number year 1995=100





TOKYO 2020



TOKYO 2020

PARALYMPIC GAMES





TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES
GAMES VISION

***Sport has the power
to change the world
and our future.***

The Tokyo 1964 Games completely transformed Japan.
The Tokyo 2020 Games, as the most innovative in history,
will bring positive reform to the world by building on three core concepts:

"Striving for your personal best (Achieving Personal Best)"

"Accepting one another (Unity in Diversity)"

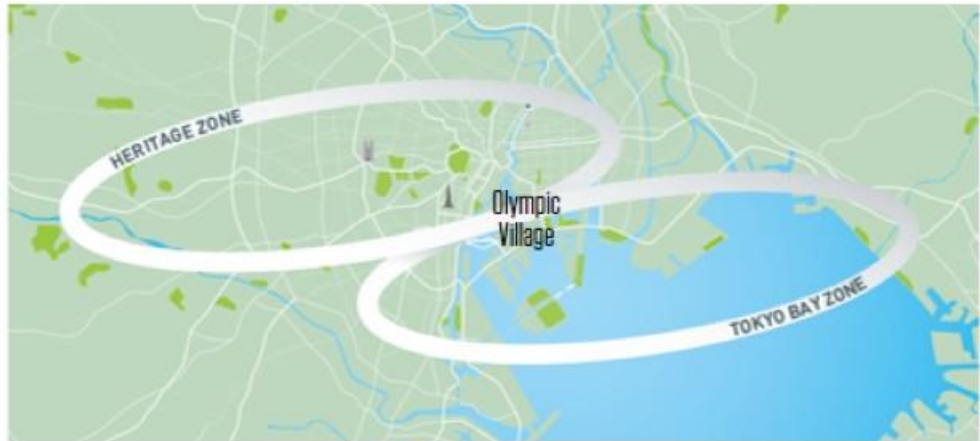
"Passing on Legacy for the future (Connecting to Tomorrow)"



TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES

VENUE PLAN CONCEPT

A WEALTH OF SPORTS AND EMOTIONS IN THE HEART OF THE CITY



Venue Plan Concept: Infinite Excitement

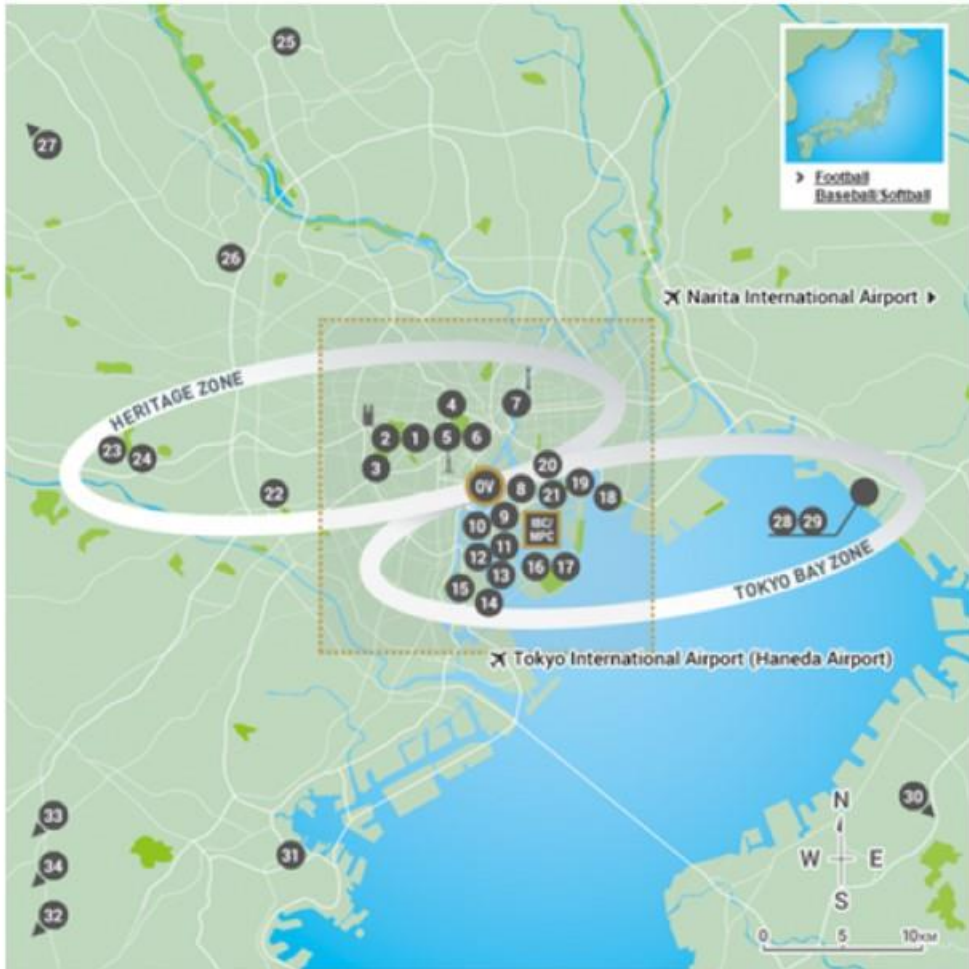
The Venue Plan for the Olympic and Paralympic Games Tokyo 2020 consists predominantly of two thematic and operational zones: the **"Heritage Zone"** which houses several iconic venues used at the Tokyo 1964 Games and further sustains the enduring legacy of Tokyo 1964; and the **"Tokyo Bay Zone"** which serves as a model for innovative urban development and symbolises the exciting future of the city. These two zones expand across the city to form an 'infinity' symbol with the Athletes' Village positioned at the point where the two zones intersect – at the physical and spiritual heart of the Games. The 'infinity' symbol embodies the boundless passion, commitment and inspiration of the world's elite athletes, the limitless potential of future generations, and the lasting legacy that will be passed on to the people of Tokyo, Japan and the world.





TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES

TOKYO 2020 VENUES



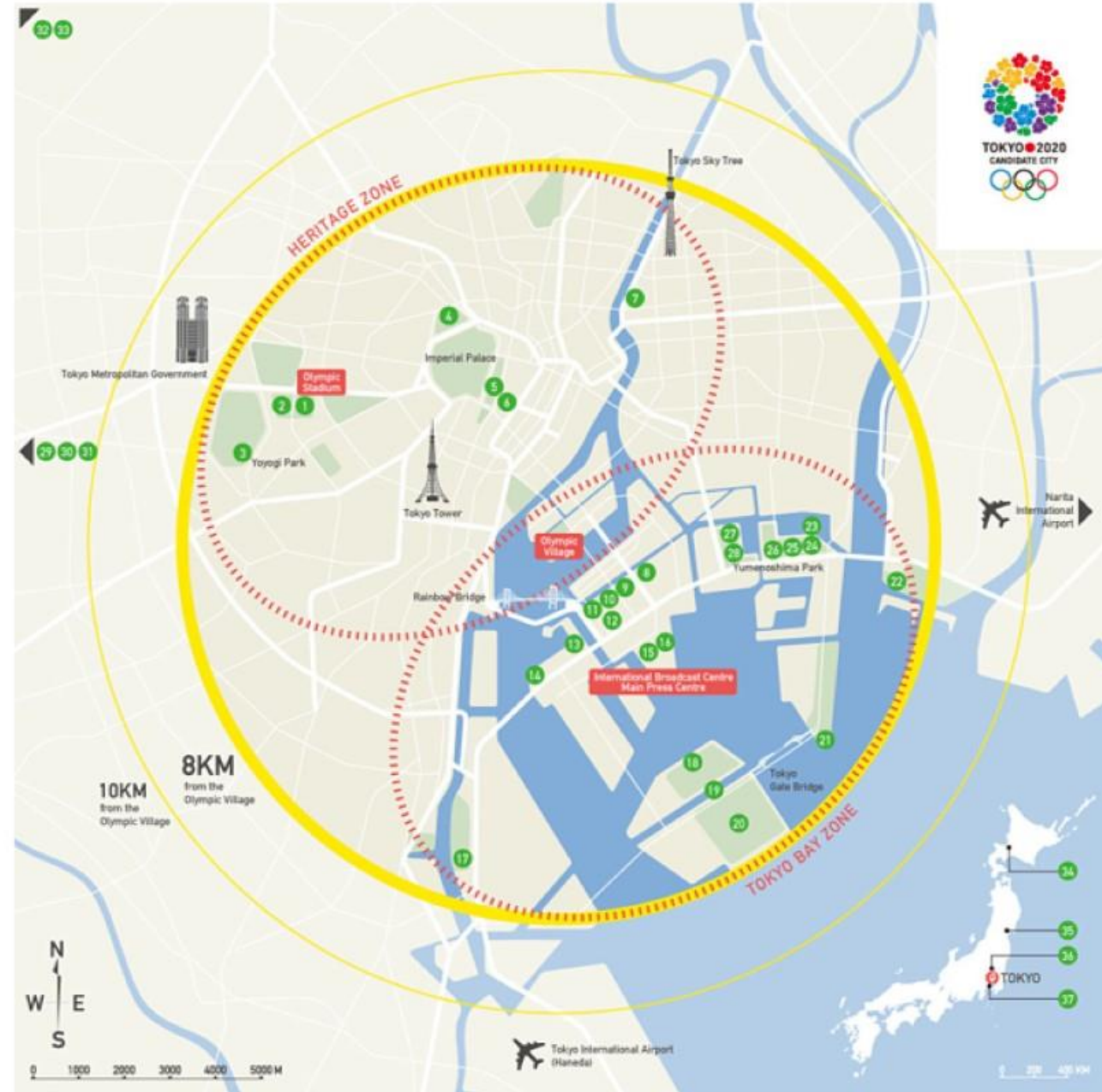
- 1. Olympic Stadium
Opening and Closing Ceremonies
Athletics
Football
- 2. Tokyo Metropolitan Gymnasium
Table Tennis
- 3. Yoyogi National Stadium
Handball
- 4. Nippon Budokan
Judo
Karate
- 5. Imperial Palace Garden
Cycling (road)
- 6. Tokyo International Forum
Weightlifting
- 7. Kokugikan Arena
Boxing
- 8. Ariake Arena
Volleyball (indoor)
- 9. Olympic Gymnastic Centre
Gymnastics
- 10. Olympic BMX Course
Cycling (BMX)
- 11. Ariake Tennis Park
Tennis
- 12. Odaiba Marine Park
Marathon swimming
Triathlon
- 13. Shiokaze Park
Beach volleyball
- 14. Aomi Urban Sports Venue
Skateboarding
Sport Climbing
- 15. Seaside Park Hockey Stadium
Hockey
- 16. Sea Forest Cross-Country Course
Equestrian (eventing, cross-country)
- 17. Sea Forest Waterway
Canoe (sprint)
Rowing
- 18. Canoe Slalom Course
Canoe (slalom)
- 19. Dream Island Archery Field
Archery
- 20. Olympic Aquatics Centre
Aquatics (swimming, diving, synchronised swimming)
- 21. Tatsumi International Swimming Centre
Aquatics (water polo)
- 22. Equestrian Park
Equestrian (dressage, jumping, eventing)
- 23. Musashino Forest Sport Plaza
Badminton
Modern Pentathlon (fencing)
- 24. Tokyo Stadium
Football
Modern Pentathlon (swimming, riding, running, shooting)
Rugby
- 25. Saitama Super Arena
Basketball
- 26. Asaka Shooting Range
Shooting
- 27. Kasumigaseki Country Club
Golf
- 28. Makuhari Messe Hall A
Taekwondo
Wrestling
- 29. Makuhari Messe Hall B
Fencing
- 30. Tsurigasaki Beach Surfing Venue
Surfing
- 31. Yokohama Stadium
Baseball/Softball
- 32. Enoshima Yacht Harbour
Sailing
- 33. Izu Velodrome
Cycling (track)
- 34. Izu Mountain Bike Course
Cycling (mountain bike)
- 35. Fukushima Azuma Baseball Stadium
Baseball/Softball
- 36. Sapporo Dome
Football
- 37. Miyagi Stadium
Football
- 38. Saitama Stadium
Football
- 39. International Stadium Yokohama
Football
- OV_Olympic Village
- IBC/MPC_Tokyo International Exhibition Centre (Tokyo Big Sight)



TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES MASTERPLAN

A platform to promote the highest environmental standards:

- A model of urban sustainability
- Low-impact, energy-efficient venue siting and construction
- New green areas in the heart of the city
- Zero-waste Games



HERITAGE ZONE / Zone Héritage

- 1 Opening / Closing Ceremony
Cérémonies d'ouverture et de clôture
- 2 Athletics
Athlétisme
- 3 Football
Football
- 4 Rugby
Rugby
- 5 Table Tennis
Tennis de table
- 6 Handball
Handball
- 7 Judo
Judo
- 8 Cycling (road: start)
Cyclisme (sur route: départ)
- 9 Weightlifting
Haltérophilie
- 10 Boxing
Boxe

TOKYO BAY ZONE / Zone de la Baie de Tokyo

- 11 Volleyball
Volleyball
- 12 Cycling (BMX)
Cyclisme (BMX)
- 13 Cycling (track)
Cyclisme (sur piste)
- 14 Gymnastics (artistic)
Gymnastique (artistique)
- 15 Gymnastics (rhythmic)
Gymnastique (rythmique)
- 16 Gymnastics (trampoline)
Gymnastique (trampoline)
- 17 Tennis
Tennis
- 18 Triathlon
Triathlon
- 19 Aquatics (marathon swimming)
Sports aquatiques (marathon de natation)
- 20 Beach Volleyball
Volleyball de plage
- 21 Wrestling
Lutte
- 22 Fencing
Escrime
- 23 Taekwondo
Taekwondo
- 24 Hockey
Hockey
- 25 Equestrian (eventing)
Sports équestres (concours complet)
- 26 Rowing
Aviron
- 27 Canoe - kayak (sprint)
Canoe-kayak (course en ligne)
- 28 Cycling (mountain bike)
Cyclisme (vélo tout terrain)
- 29 Sailing
Voile
- 30 Canoe - kayak (slalom)
Canoe-kayak (slalom)
- 31 Badminton
Badminton
- 32 Basketball
Basketball
- 33 Archery
Tir à l'arc
- 34 Equestrian (jumping)
Sports équestres (saut d'obstacles)
- 35 Equestrian (dressage)
Sports équestres (dressage)
- 36 Equestrian (eventing)
Sports équestres (concours complet)
- 37 Aquatics (swimming)
Sports aquatiques (natation)
- 38 Aquatics (diving)
Sports aquatiques (plongeon)
- 39 Aquatics (synchronized swimming)
Sports aquatiques (natation synchronisée)
- 40 Aquatics (water polo)
Sports aquatiques (water-polo)

OTHER VENUES / Autres Sites

- 41 Modern Pentathlon
Pentathlon moderne (escrime)
- 42 Football
Football
- 43 Modern Pentathlon
(swimming, riding, running, shooting)
Pentathlon moderne (natation, équitation, course, tir)
- 44 Cycling (road: finish)
Cyclisme (sur route: arrivée)
- 45 Shooting
Tir
- 46 Golf
Golf
- 47 Football
Football
- 48 Football
Football
- 49 Football
Football
- 50 Football
Football



- OV Olympic Village
Village olympique
- MC Main Media Hotel
Hôtel principal des médias
- IOC Hotel
Hôtel du COI
- IBC/IBC International Broadcast Centre / Main Press Centre
Centre international de radio et télévision / Centre principal de presse

- OS Olympic Hospitality Site
Site d'hospitalité olympique
- LS Live site
Site de retransmission en direct
- OC Olympic competition venue
Site de compétition olympique

Road Network / Réseau routier

- Motorway
Autoroute
- Major urban arterial network
Principale artère urbaine
- Olympic lane
Voie olympique
- Olympic priority route
Route olympique prioritaire

Rail Lines / Lignes ferroviaires

- Suburban rail
Réseau ferroviaire de banlieue
- Subway
Métro
- Light rail
Trains légers





TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES
TOKYO 2020 VENUES



The Olympic Village





TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES
TOKYO 2020 VENUES



The International Broadcast Centre







TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES
TOKYO 2020 VENUES



The Olympic Stadium





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

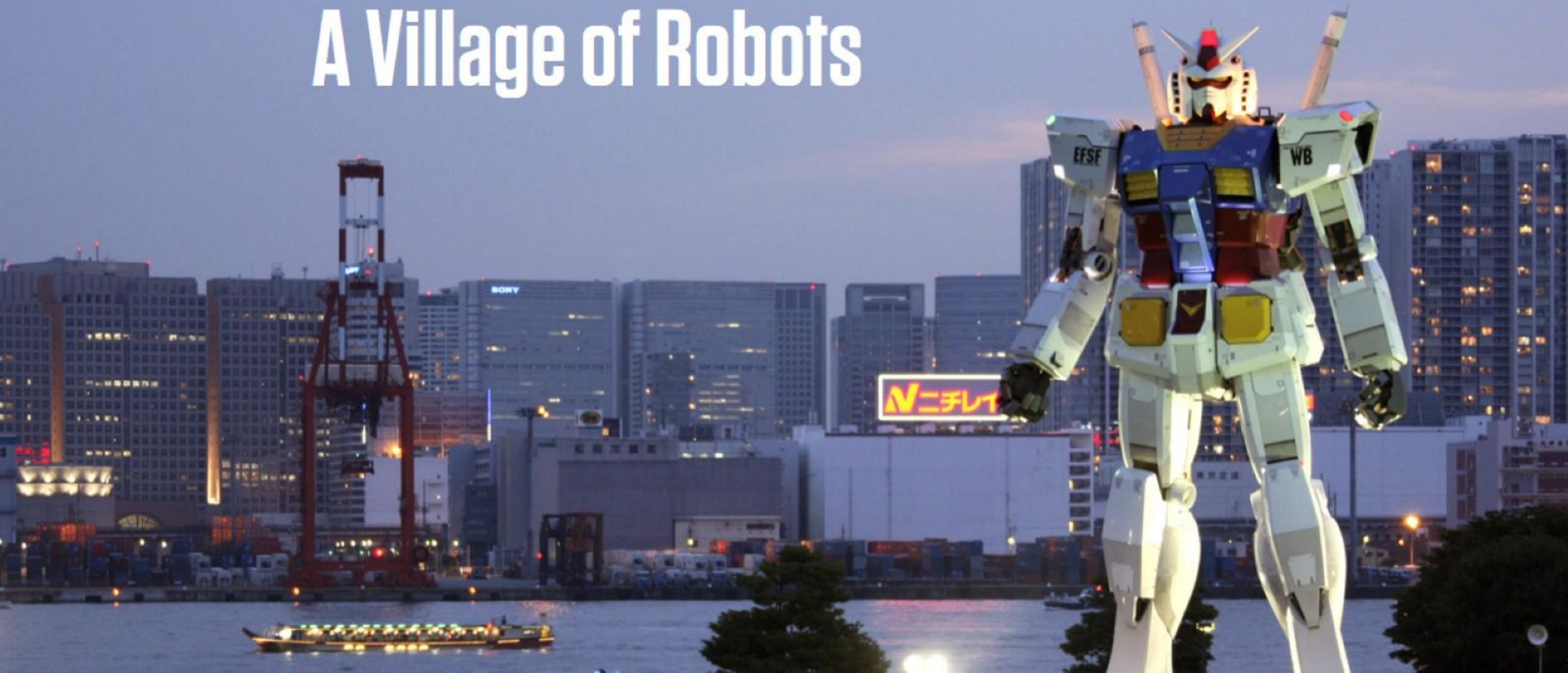
A panoramic view of a city at night, likely Tokyo, with numerous skyscrapers and buildings illuminated with various colors of lights. The Tokyo Tower is visible on the left side of the image.

A Village of Robots
Instant Language Translation
Face Recognition. Artificial Intelligence Application
Tokyo, a Self-Driving City
Flying Cars
8K TV Broadcasts
5G Wireless connections
Algae As a Fuel Source
Hydrogen-Powered Buses and Buildings
Artificial Meteor Light Shows
Even More Maglev Trains



TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

A Village of Robots





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

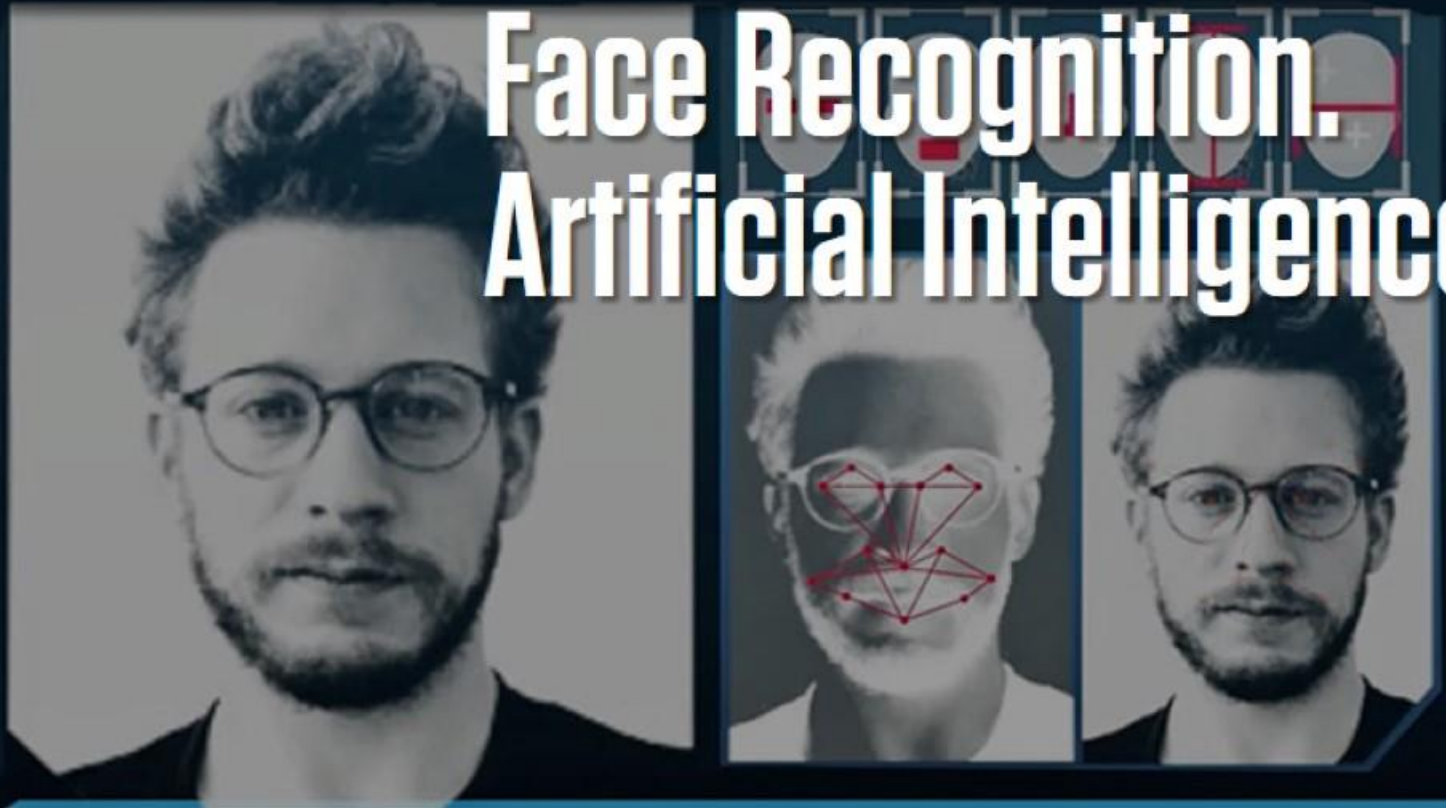
Instant Language Translation





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

Face Recognition. Artificial Intelligence Application



10:30:00:00

NEC Face Recognition Technology
World's best in search speed and accuracy





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

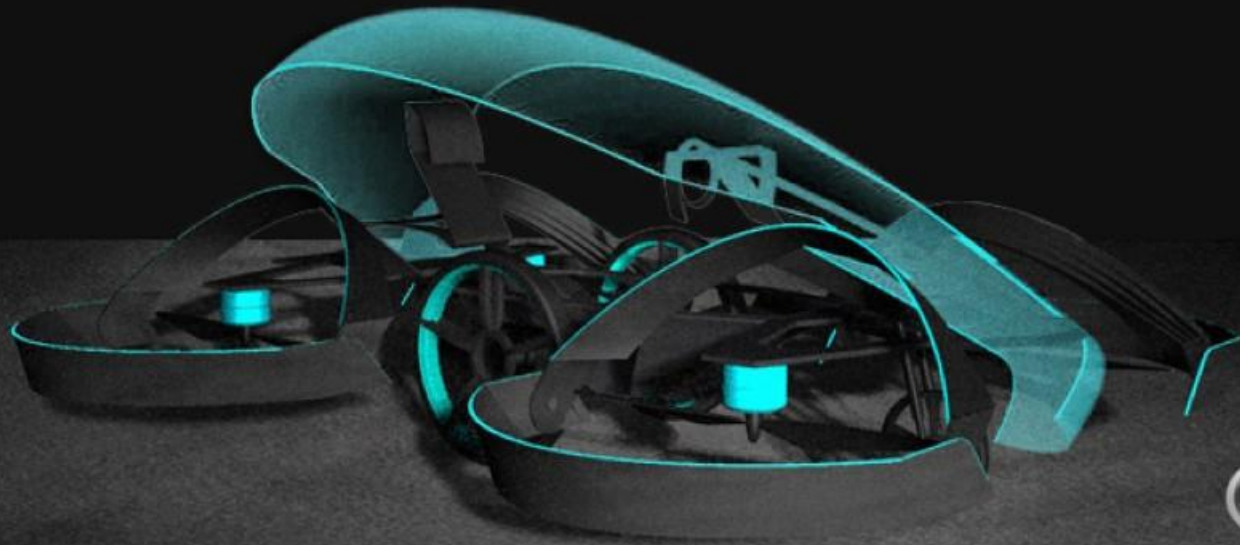
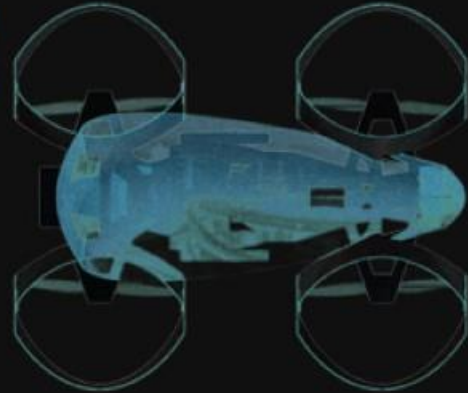
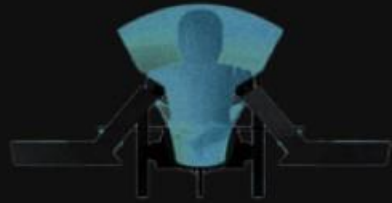
Tokyo, a Self-Driving City





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

Flying Cars





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

8K TV Broadcasts

4K World

Industry leading 4K UHD line-up spanning Consumer, Prosumer and Professional categories



8

K

HIGH DYNAMIC RANGE

High Dynamic Range
The high brightness capability to reproduce when shooting in wide dynamic range, faithfully reproduces images in their original brightness.

Standard Dynamic Range
Doesn't graduate using the requirements for brightness level (only 100% of the present broadcast standard for SDR), and the high brightness component is necessary to display the image.

Panasonic

High Dynamic Range



TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

5G WIRELESS CONNECTIONS





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

Algae As a Fuel Source





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

Hydrogen-Powered Buses and Buildings



Created by TOKYO TOWER



TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

Artificial Meteor Light Shows





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES

Even More Maglev Trains





TOKYO 2020. TECHNOLOGY
FOR FUTURE CITIES



Tokio 1964

**Shynkansen, Inspiring the Maglev
Trains & The Hyperloop**

Tokio 2020



Shynkansen



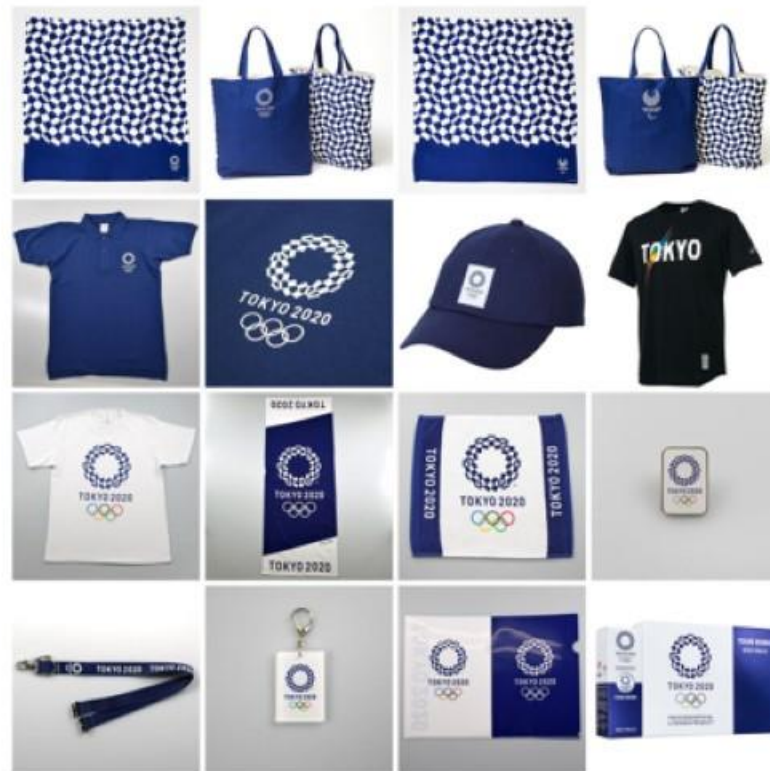
Maglev Train



Hyperloop



TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES LOGO



Los Juegos Olímpicos de Tokio 2020, oficialmente conocidos como los Juegos de la XXXII Olimpiada, tendrán lugar entre el 24 de julio al 9 de agosto de 2020 en Tokio, Japón.



Designer of the Tokyo 2020 Games emblems: Asao Tokolo



TOKYO 2020. TECHNOLOGY FOR FUTURE CITIES GAME MASCOTS

NIPONES 'ILUSTRES'

Son Goku y Shin Chan, embajadores de los Juegos Olímpicos de Tokio 2020

> La tienda oficial ya vende productos de personajes de manga como Sailor Moon y Naruto

f 379 | t | g+ 10 | +

COMENTARIOS 6



De izquierda a derecha, Astro Boy, Sailor Moon, Shin Chan, Luffy ('One Piece'), Naruto, el gato Jibanyan ('Yo-Kai Watch'), Son Goku y las Maho Girls Precure, embajadores de los Juegos Olímpicos de Tokio 2020.

EL PERIÓDICO / BARCELONA

Miércoles, 18 de enero del 2017 - 20:01 CET

CUERPO DE LETRA

IMPRIMIR NOTICIA

ENVÍA UNA CARTA DEL LECTOR

Son Goku estará en los Juegos Olímpicos de Tokio 2020. El protagonista de 'Dragon Ball' no competirá como atleta, pero sí se podrá ver en los estadios deportivos, en las gorras, camisetas, llaveros y otros productos de mercadotecnia que la organización del



Municipality of Yokohama

Koho Yokohama



Kanagawa

Location



Tokyo

Funabashi

Chiba

Ichihara

Sodegaura

Kisarazu

Kimitzu

Yokosuka

Yokohama

Kawasaki

Sagamihara

Atsugi

Hadano

Hiratsuka

Chigasaki

Odawara

Gotenba

Uenohara

Otsuki

0 20 40 Km

Yokohama

Orography



Mount Kano
379 m

2.015 m

0 m

Source: The CGIAR Consortium for Spatial Information

Yokohama Port





Osanbashi Yokohama International Passenger Terminal

Central Yokohama

Bay City

Yokohama Station District

Minato Mirai 21
Central Business District

Suzushigecho

Daikoku-futo

Shinko District

Noge

Bashamichi

Yamashita-futo

Kannai

Yamashita

Chinatown

Isezaki

Honmoku-futo

Motomachi

Yamate





Legend

● ● ● ● ●

October 2016

5

3

2

1

J

I

H

G

F

E

D

C

B

A

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Yokohama

Piers and routes

Yokohama Station
(East Exit)

Minato Mirai

Unga Park

Nihon-maru

Zo no hana

Aka-renga

Osanbashi

Yamashita
Park

0 2 4 Km

Central Yokohama Ferry Tours



Kanagawa Cruise Routes

Asian routes



Kanagawa Cruise Routes

Asian routes



Kanagawa Haneda Int. Airport

National connections

47

connections



Kanagawa Haneda Int. Airport

International connections



Kantō region

Isochronous by roads

30 min

5,2  30 min



5,2 Millions
Population

Kantō region

Isochronous by roads

1 Hour



18,4 Millions
Population



Kantō region

Isochronous by roads

1 Hour 30 min



28,8 Millions
Population



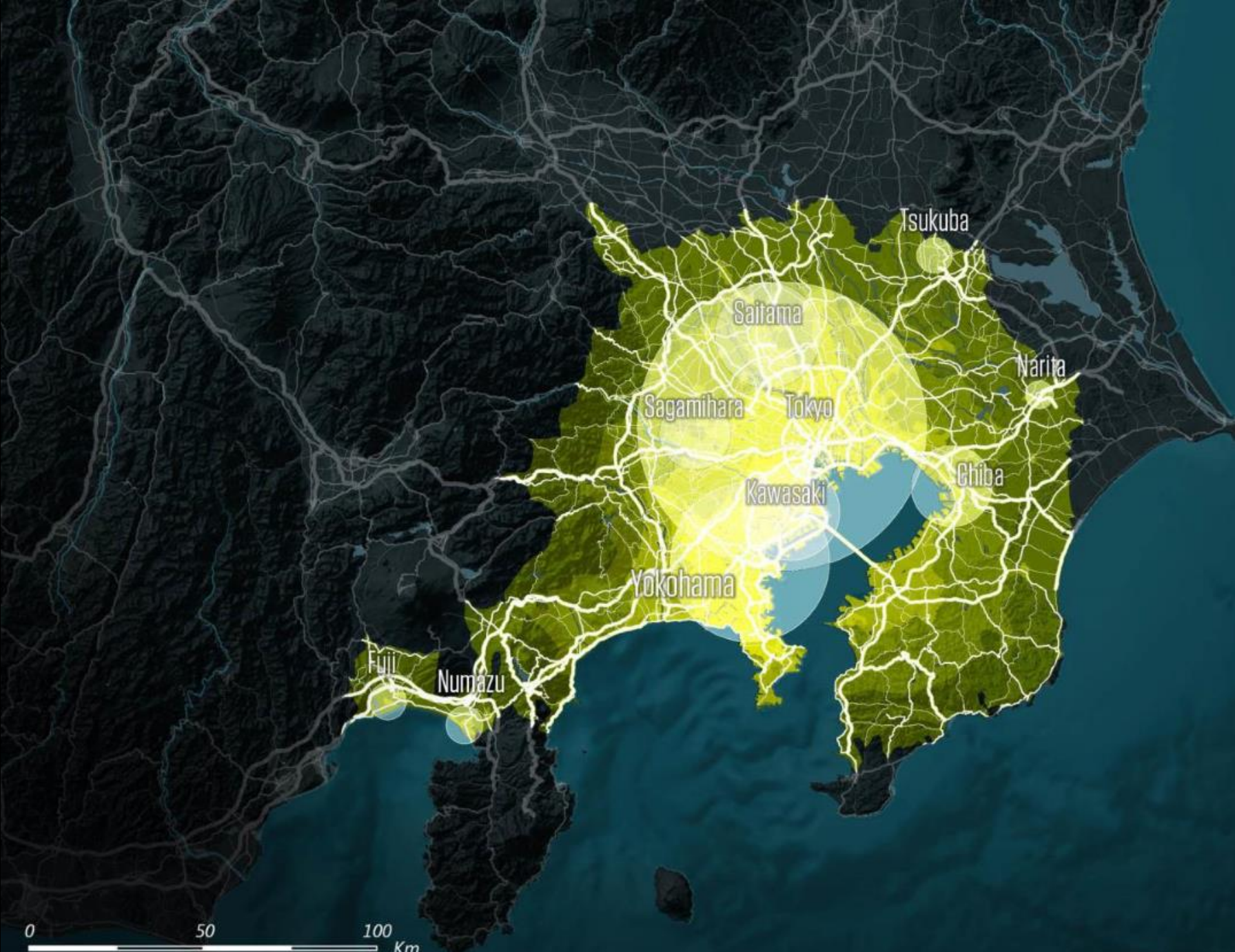
Kantō region

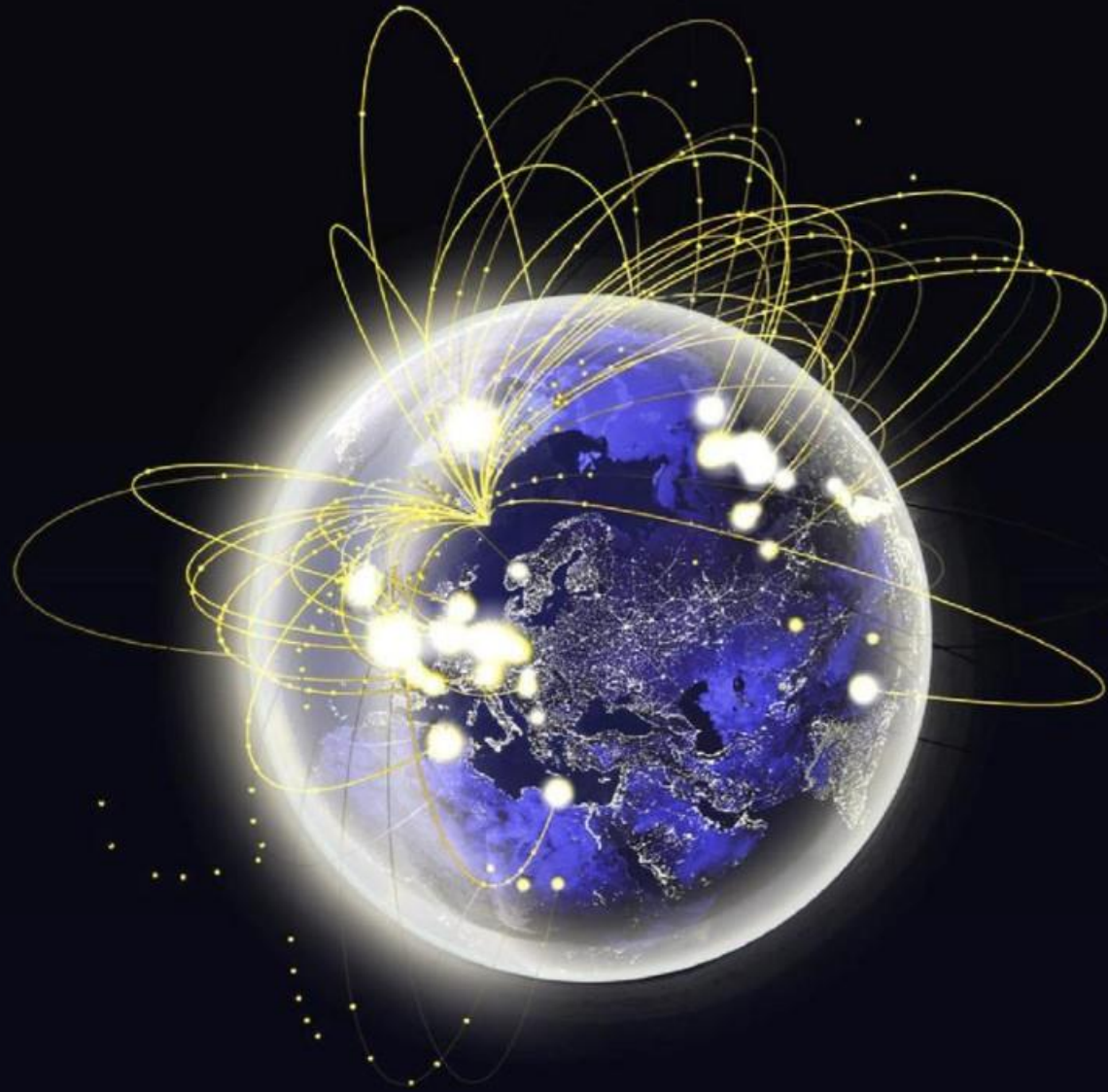
Isochronous by roads

2 Hours



32,0 Millions
Population





Connecting Physical and Digital Spaces



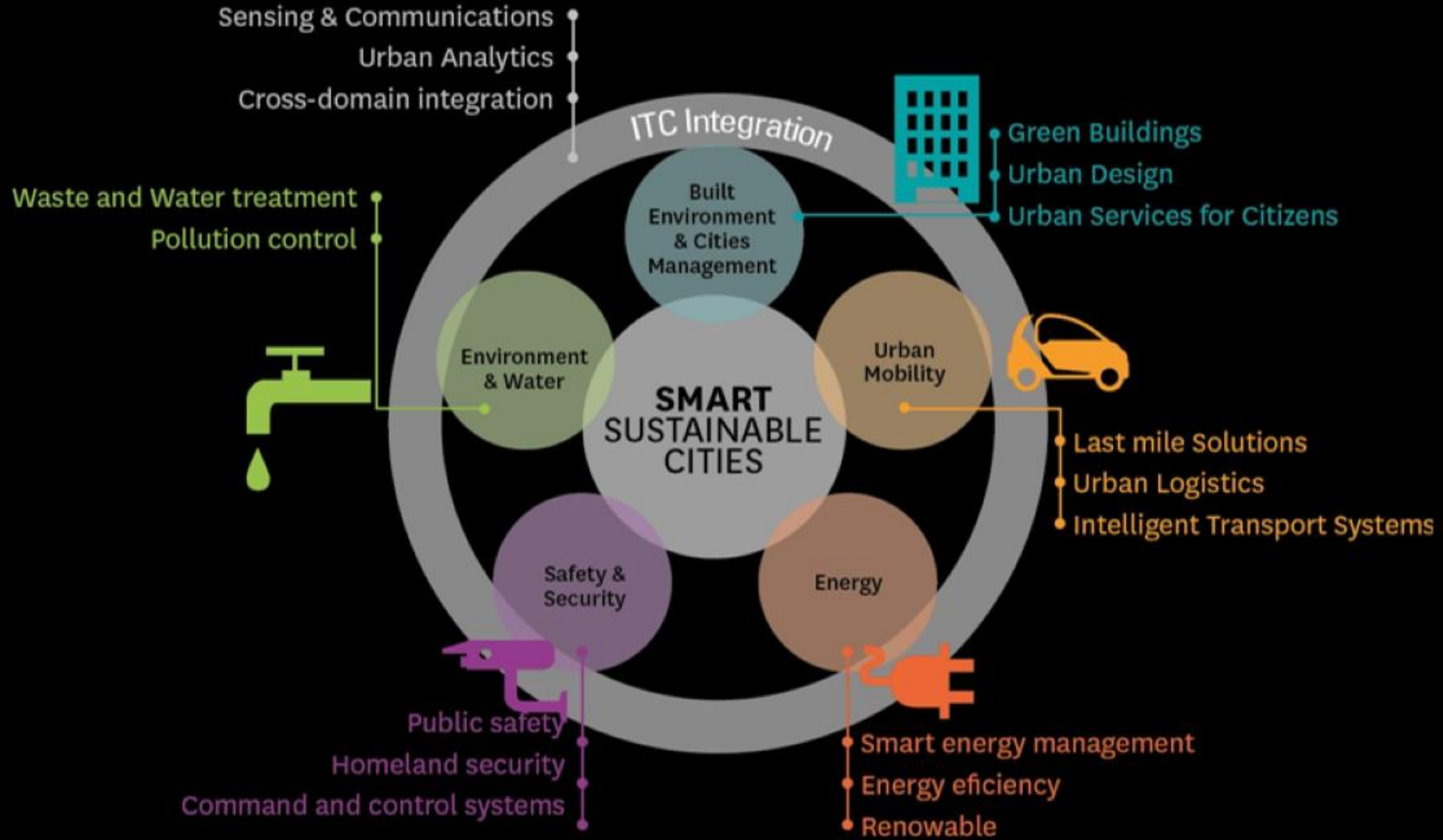
350 TRILLON \$



In the next 30 years, the cities of our planet will receive investments estimated at \$ 350 trillion (7 times the world's GDP of 2010) for the **Construction, Management, and Maintenance of Urban infrastructures.**

SMART SUSTAINABLE CITIES
FOCUS DOMAINS

CROSS DOMAIN
INTEGRATION AS A
DIFFERENTIATING EXPERTISE





Yokohama 横浜市

CITIES IN EVOLUTION

THE POWER OF MEGA EVENTS

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