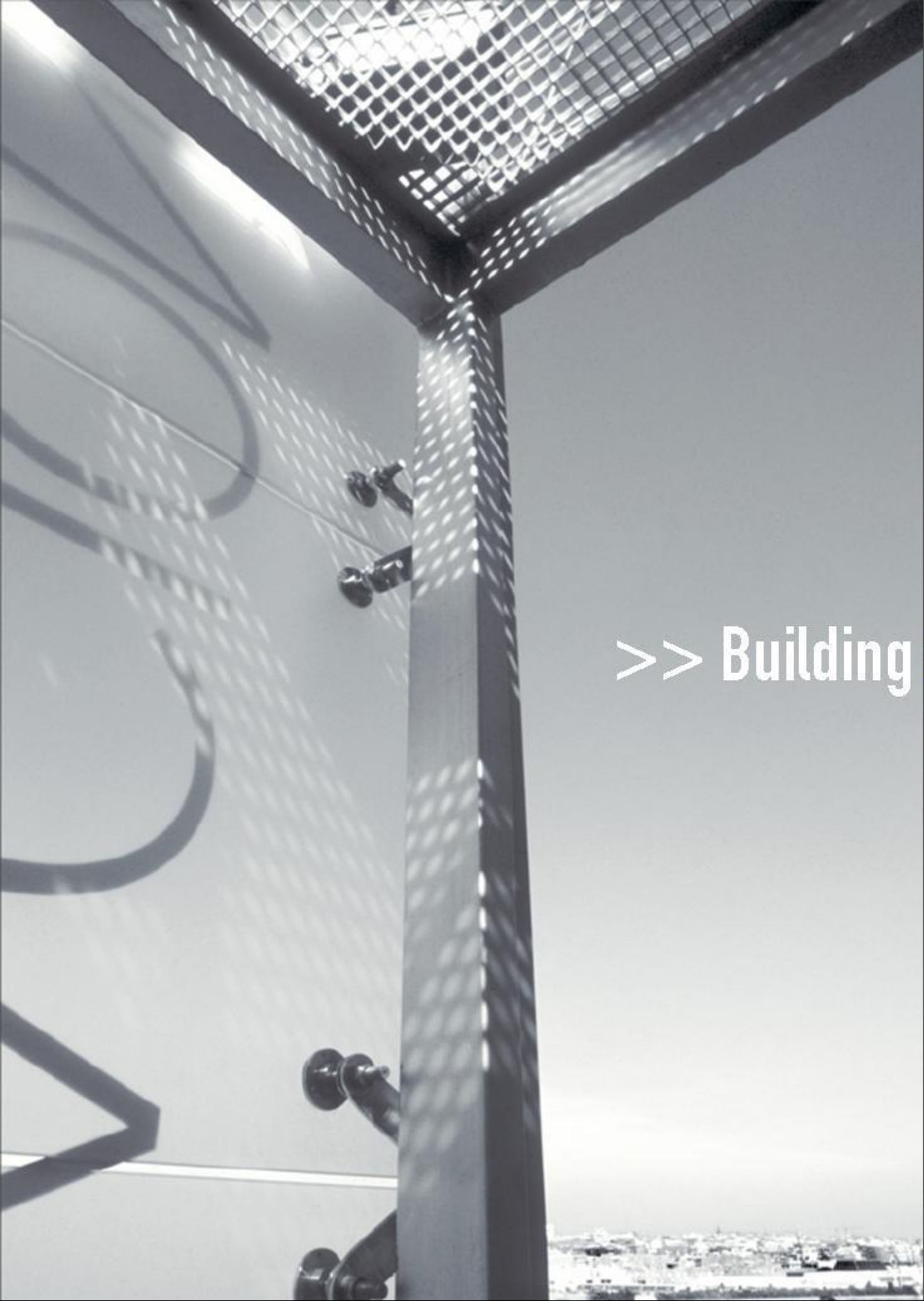
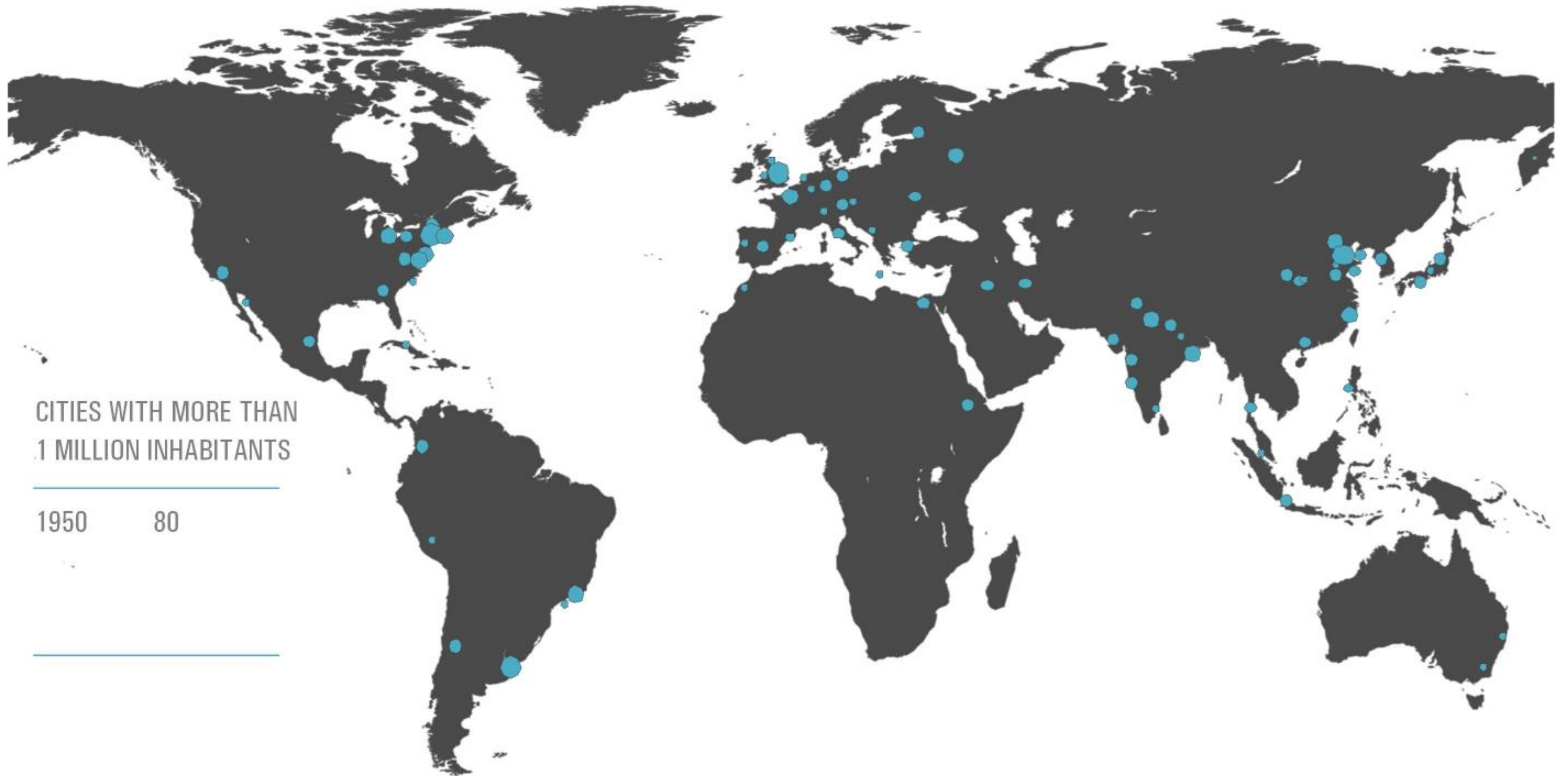
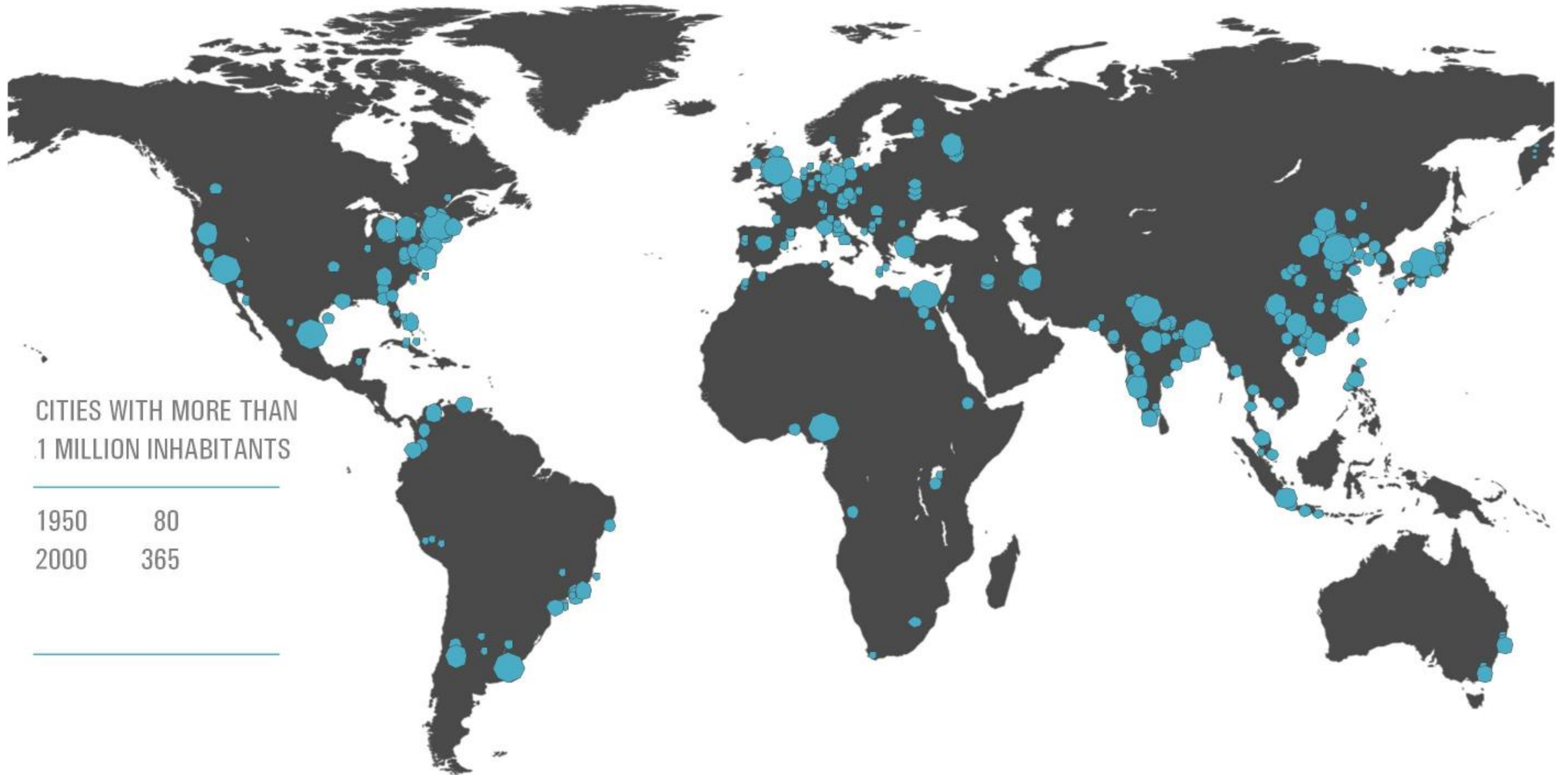
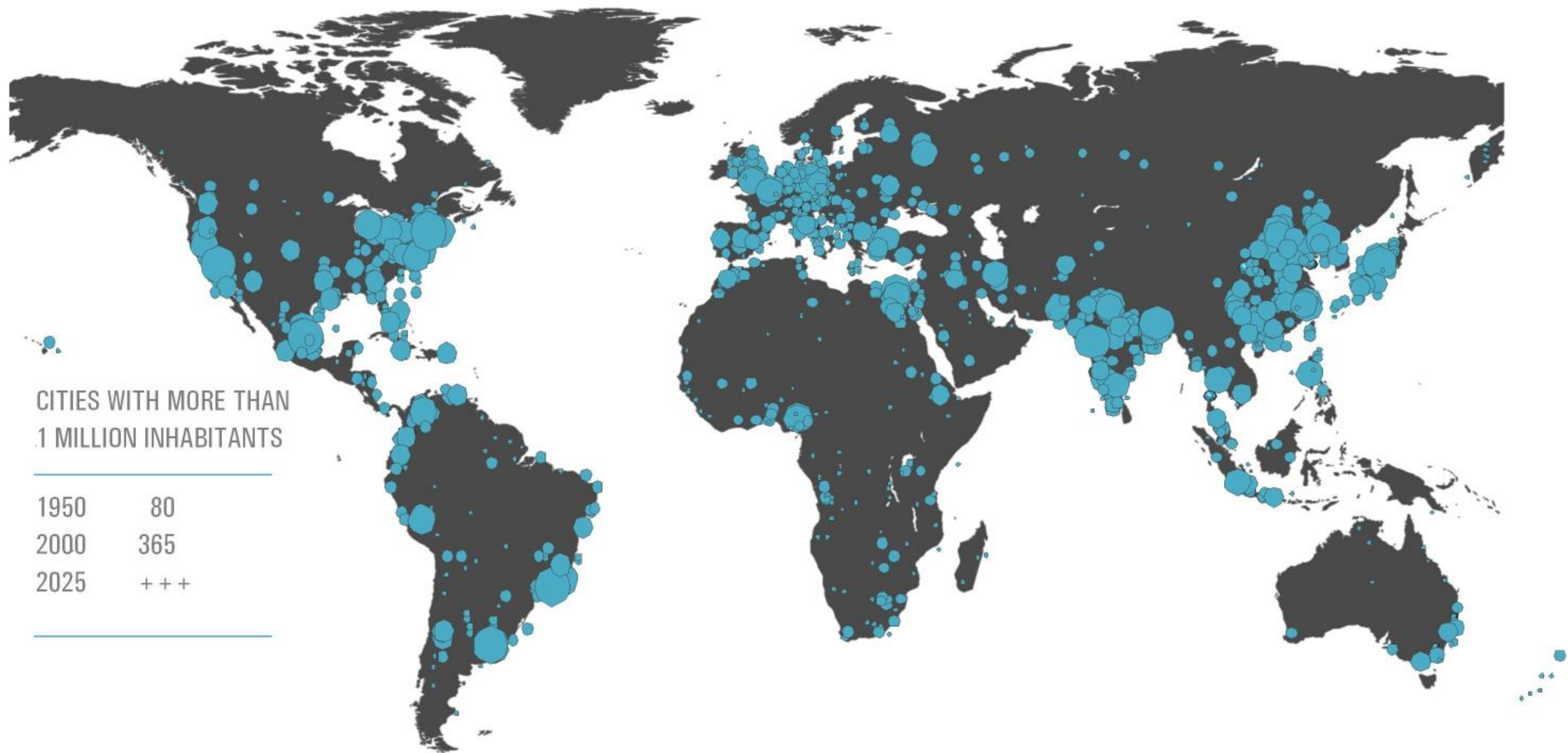


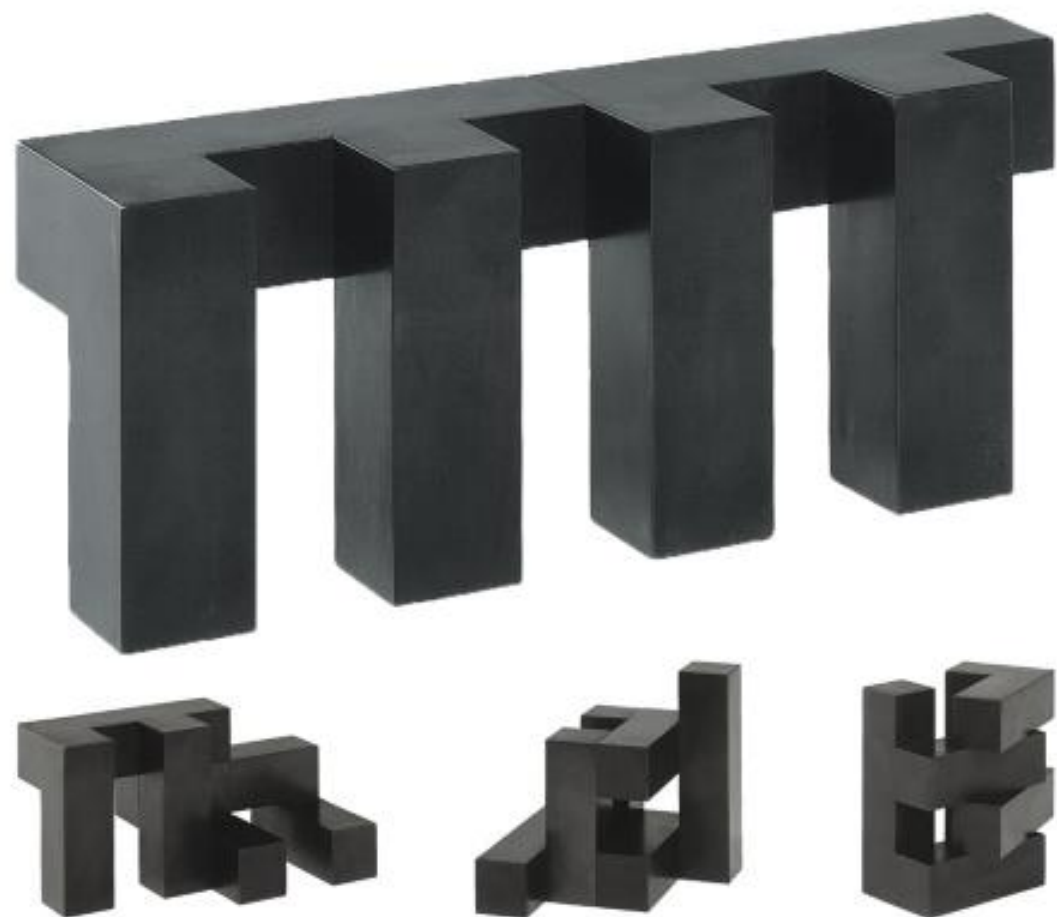


>> Building **a Sustainable Future**









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







BETTERING OUR WORLD CITY BY CITY





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)

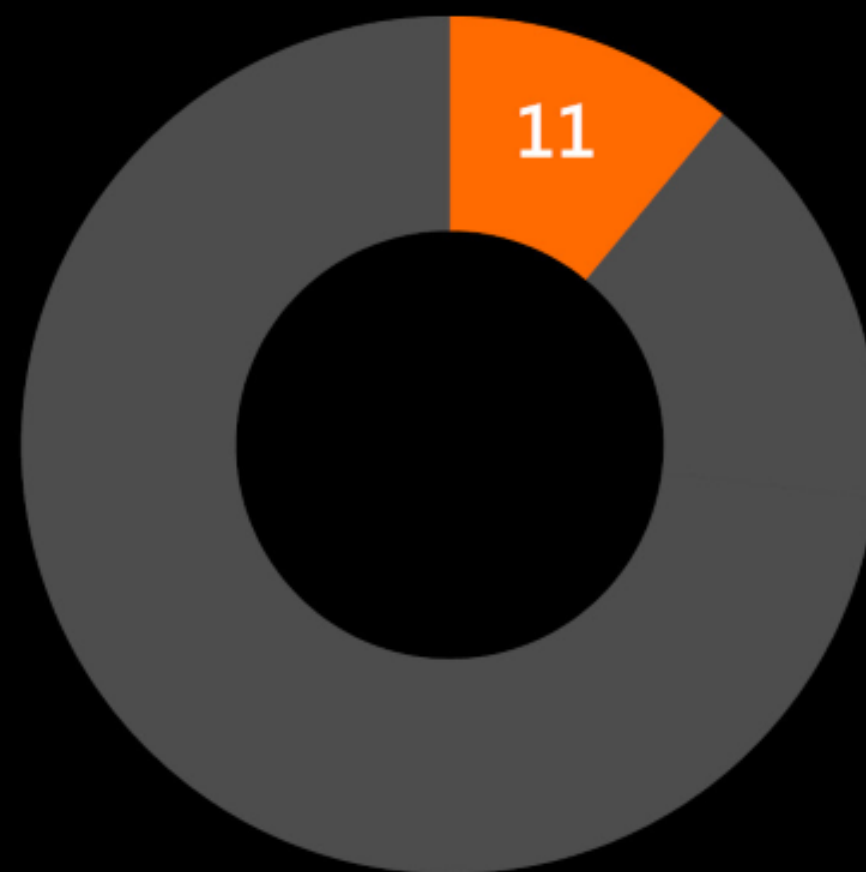
Hacia un Modelo Territorial Policéntrico

Ciudades. Espacios clave para el desarrollo y la equidad

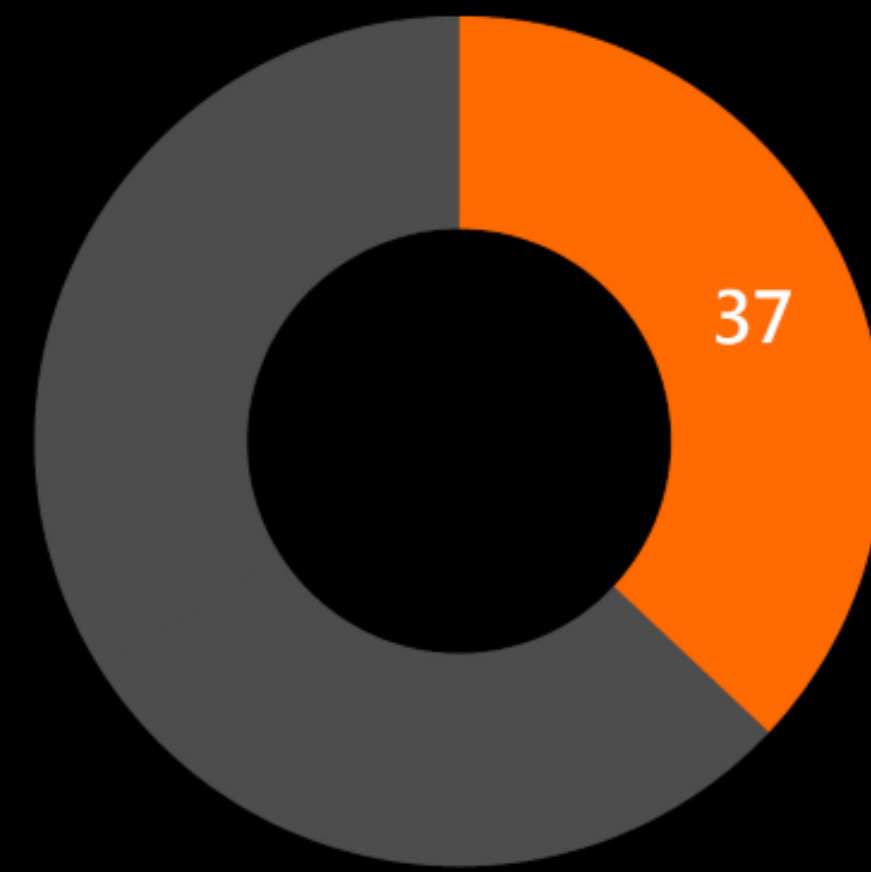
Contribución al desarrollo económico
(en % del PIB mundial) y previsión según el
tipo de ciudad

■ Ciudades medias en
países emergentes

PIB en 2007



PIB previsión 2025
100%=\$54.9 trillones

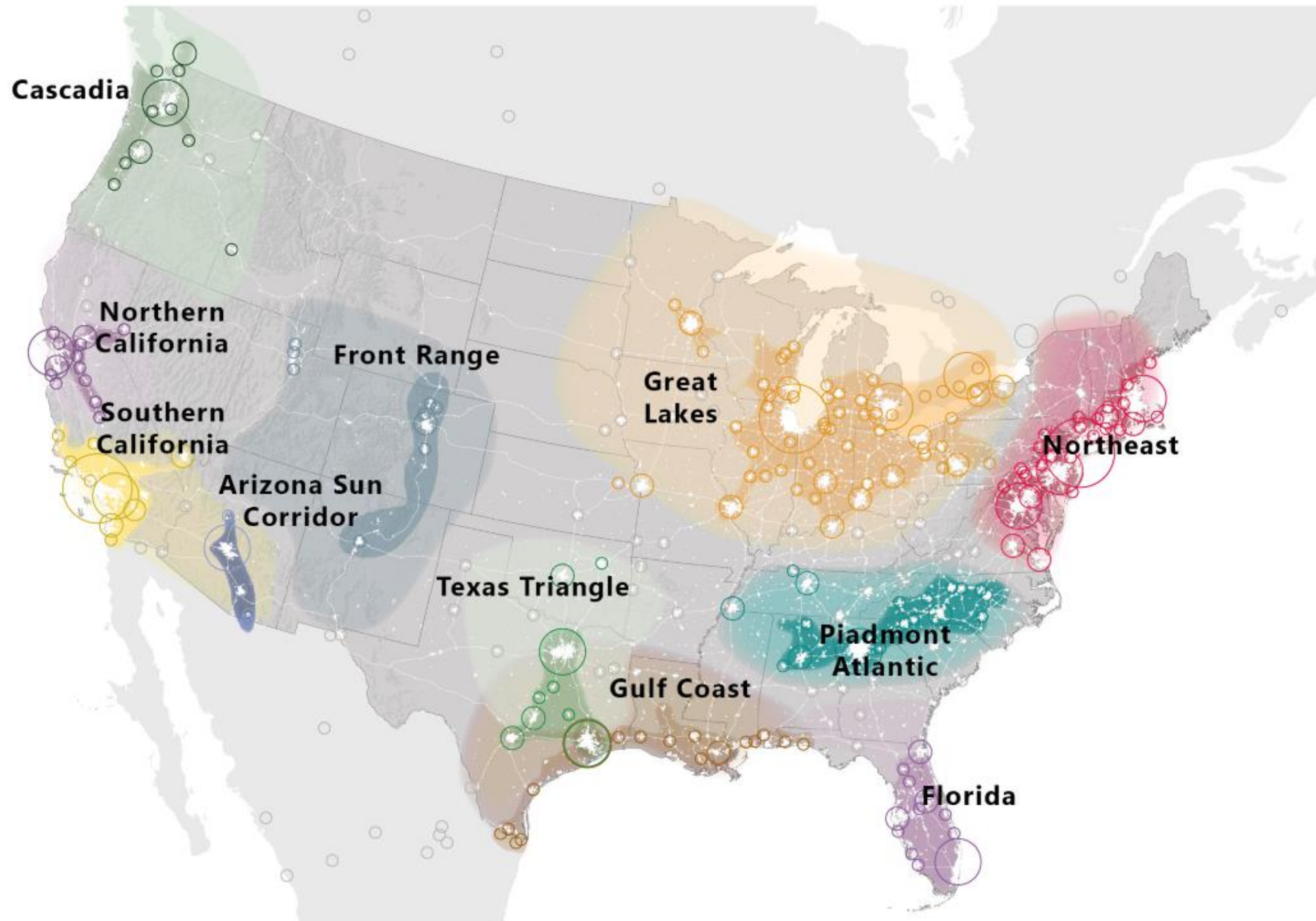


Ciudad Media: población entre 150.000 y 5.000.000 habs.

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
Montevideo
Buenos Aires
Punta del Este
Mar del Plata

*Diamante del
Río de La Plata*

Diamante • RÍO DE LA PLATA

Isocronas 1hr

POBLACIÓN
(Millones)

ISOCRONAS
(Horas)

18,51

1hr

Rosario

Buenos Aires

La Plata

Montevideo

Maldonado
Punta del Este

Mar de Plata

0 100 200
Km

18,51 millones

Diamante • RÍO DE LA PLATA

Isocronas 2hr

POBLACIÓN
(Millones)

ISOCRONAS
(Horas)

18,51

1hr

19,72

2hr



Diamante • RÍO DE LA PLATA

Isocronas 3hr

POBLACIÓN
(Millones)

ISOCRONAS
(Horas)

18,51

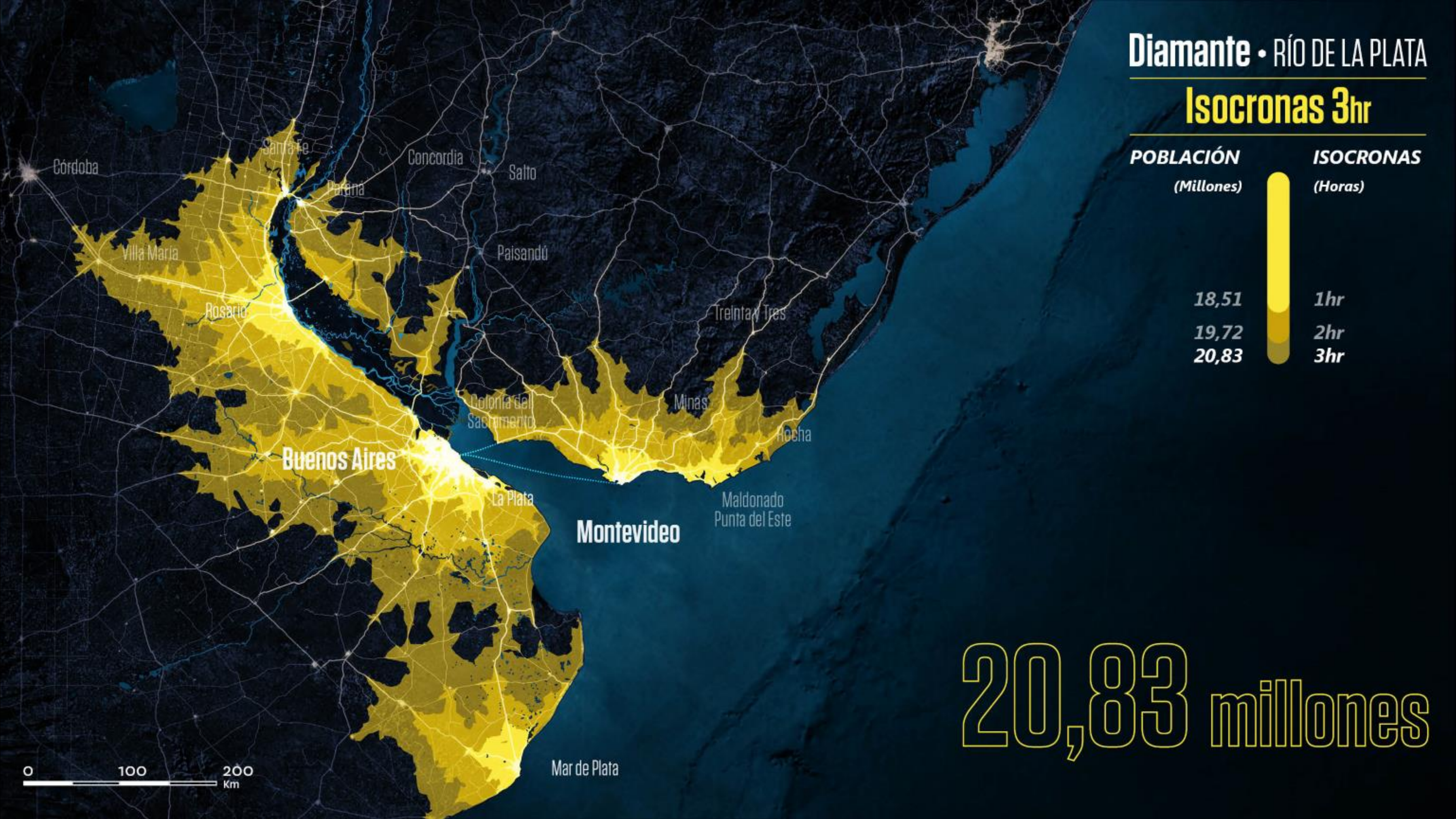
1hr

19,72

2hr

20,83

3hr



20,83 millones

Diamante • RÍO DE LA PLATA

Sistema Urbano



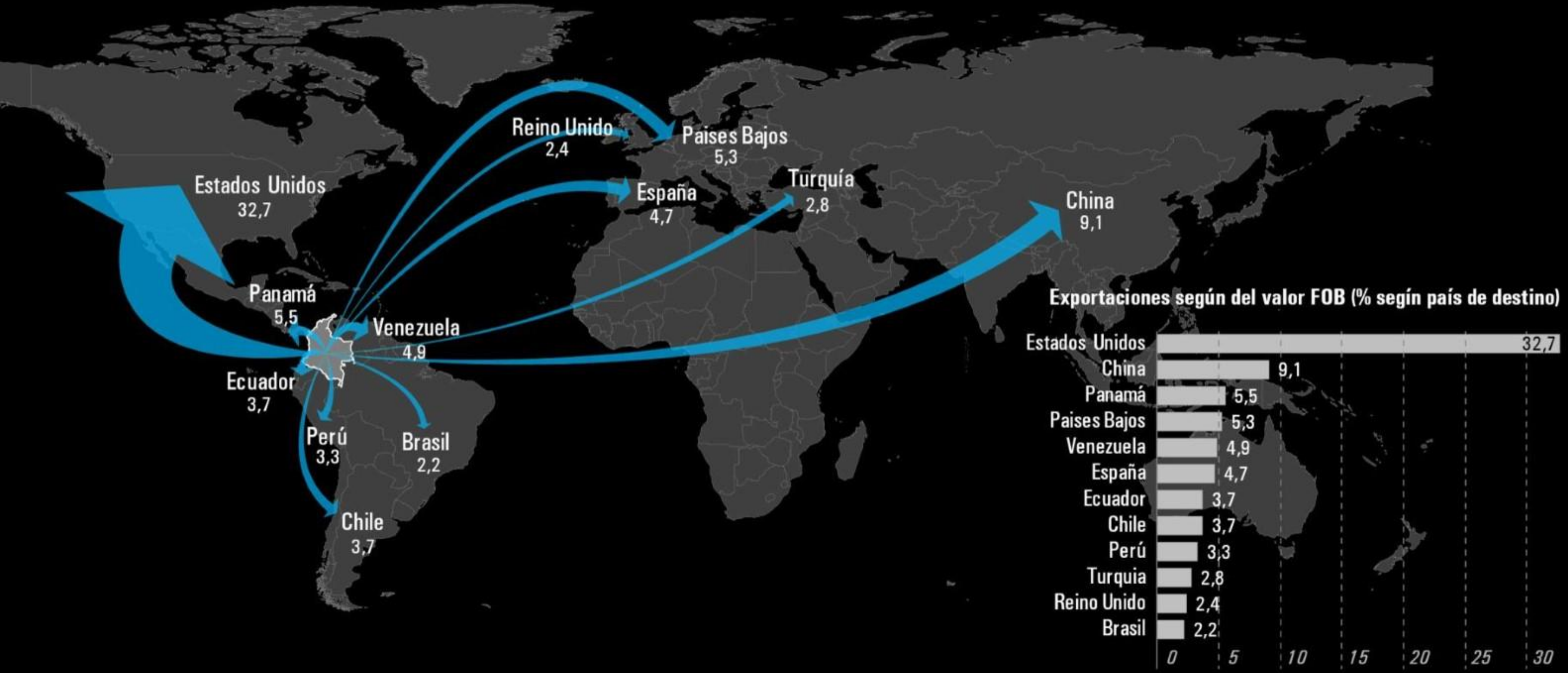


Diamante

Río de la Plata

ARGENTINA+URUGUAY

Economía



Los Diamantes de Colombia

Sistema de Ciudades de Colombia

Vocaciones y Complementariedades Estratégicas
Hacia una regionalización de Colombia

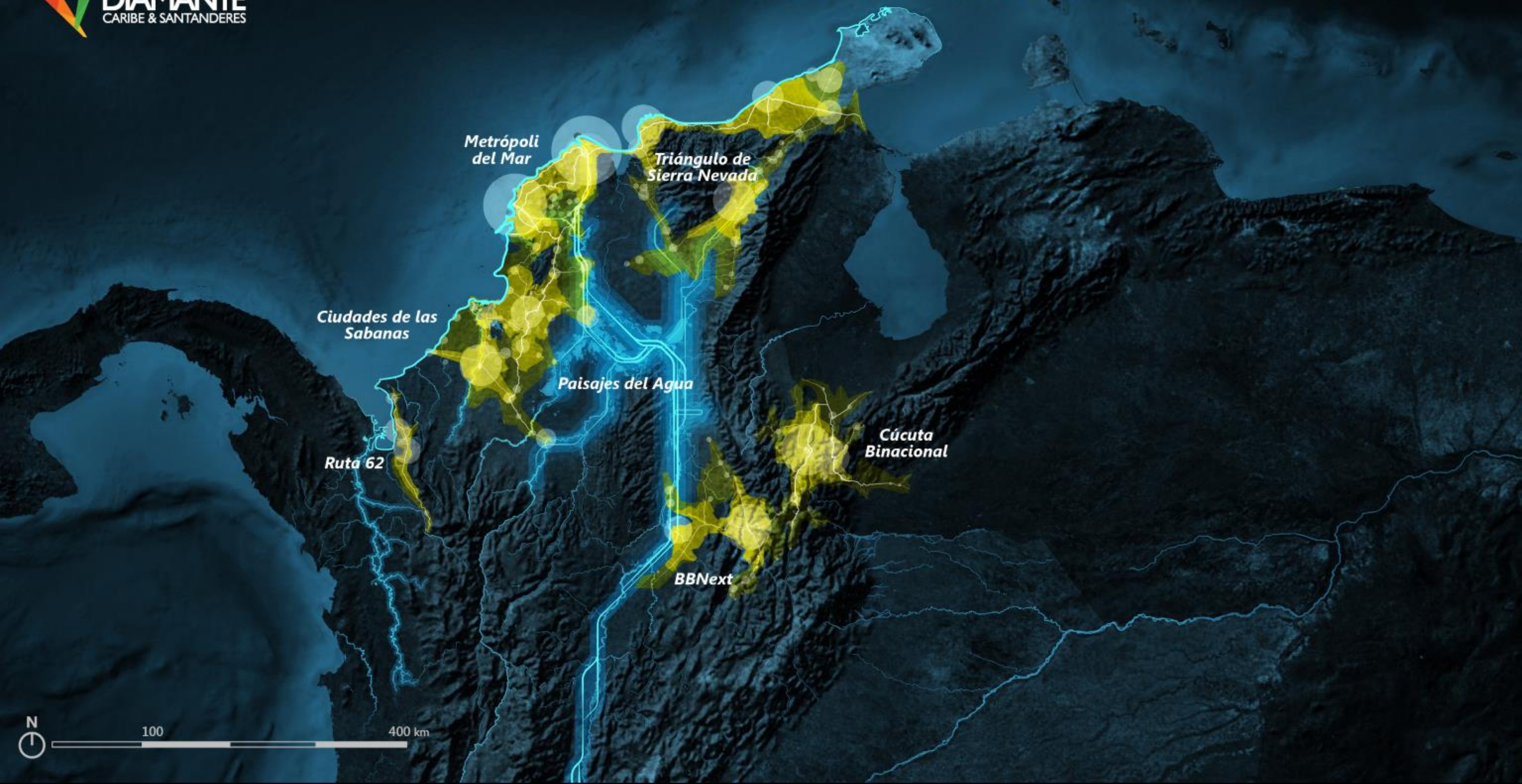
Diamantes Territoriales
Caribe y Santanderes

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



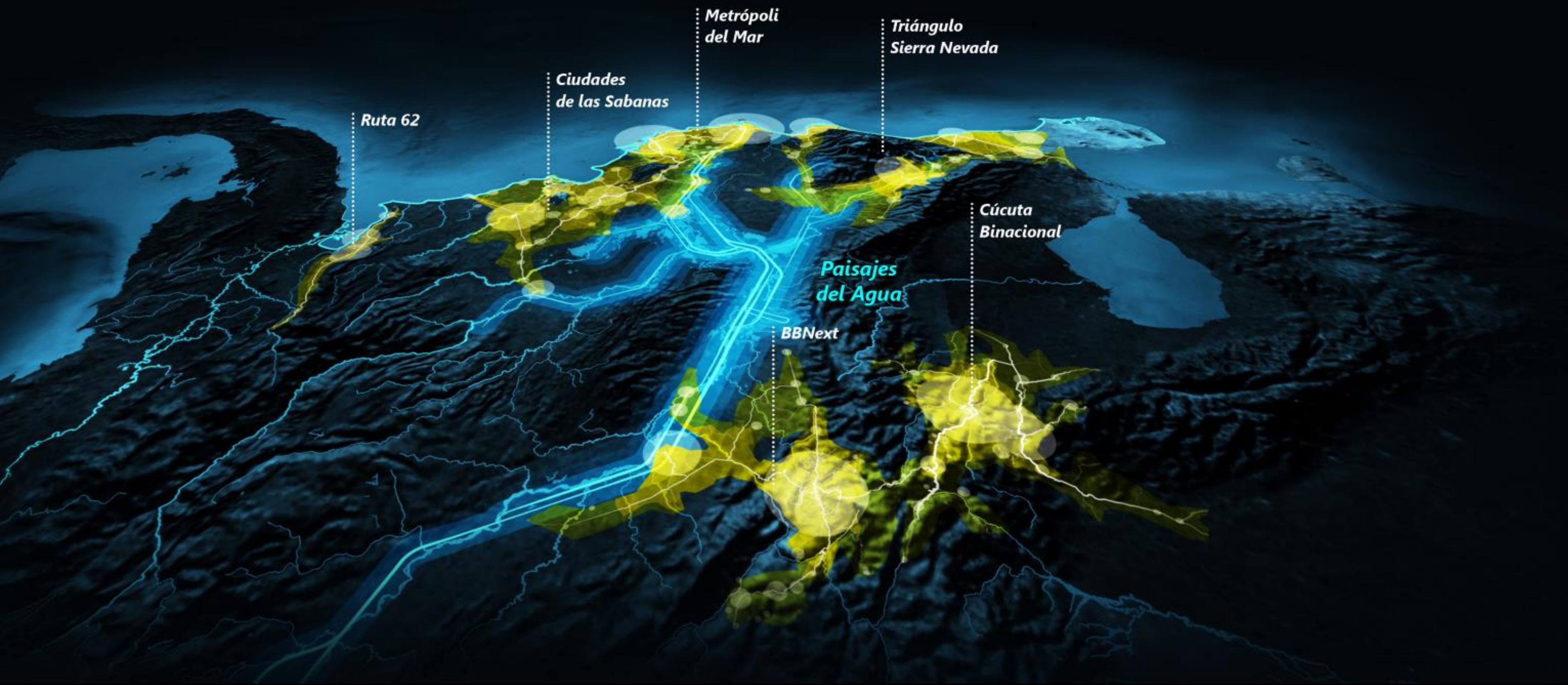
Fuente: Instituto Geográfico Agustín Codazzi (IGAC)

Las Áreas Funcionales del Territorio



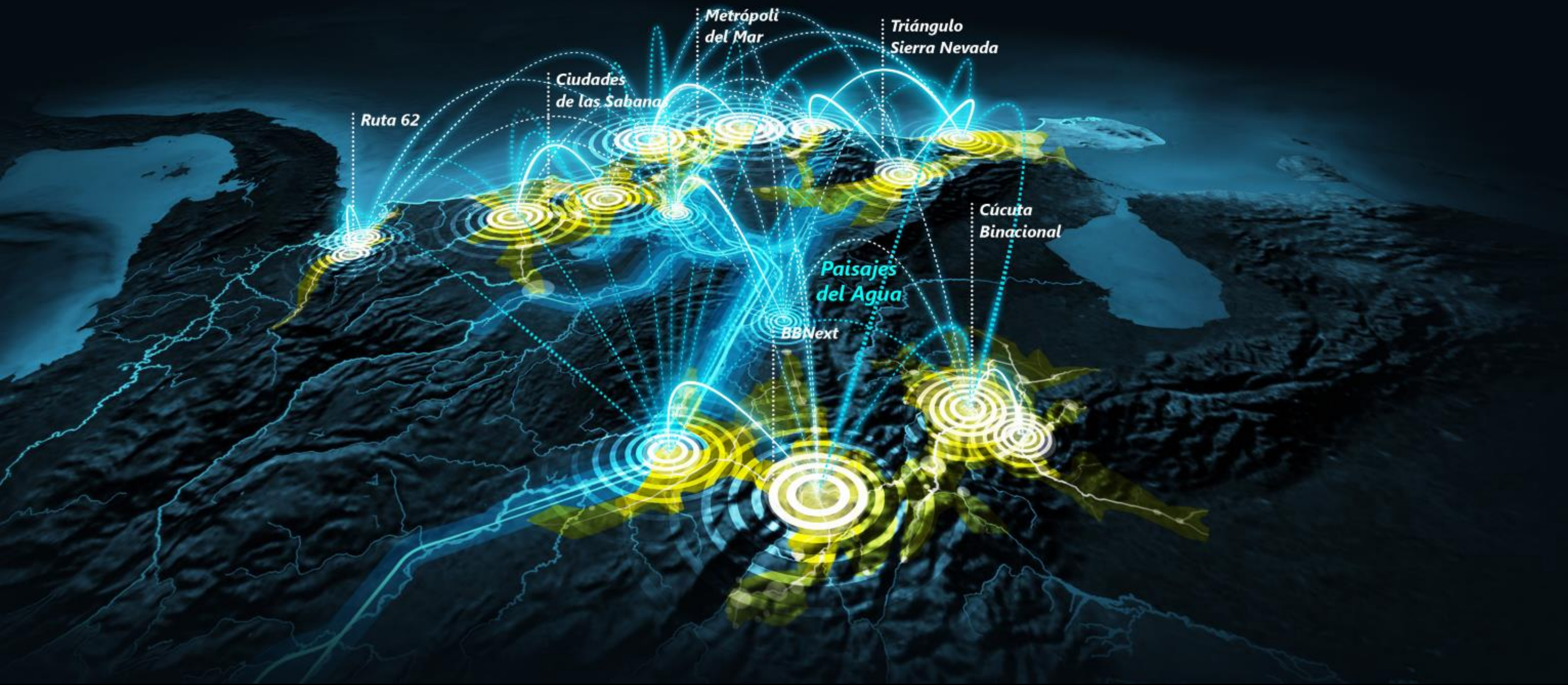
Hacia un Modelo Territorial Policéntrico

Sistemas Urbanos Intermedios



Hacia un Modelo Territorial Policéntrico

Diamante Digital
Diamante Cloud





Ciudad Aeroportuaria de Barranquilla

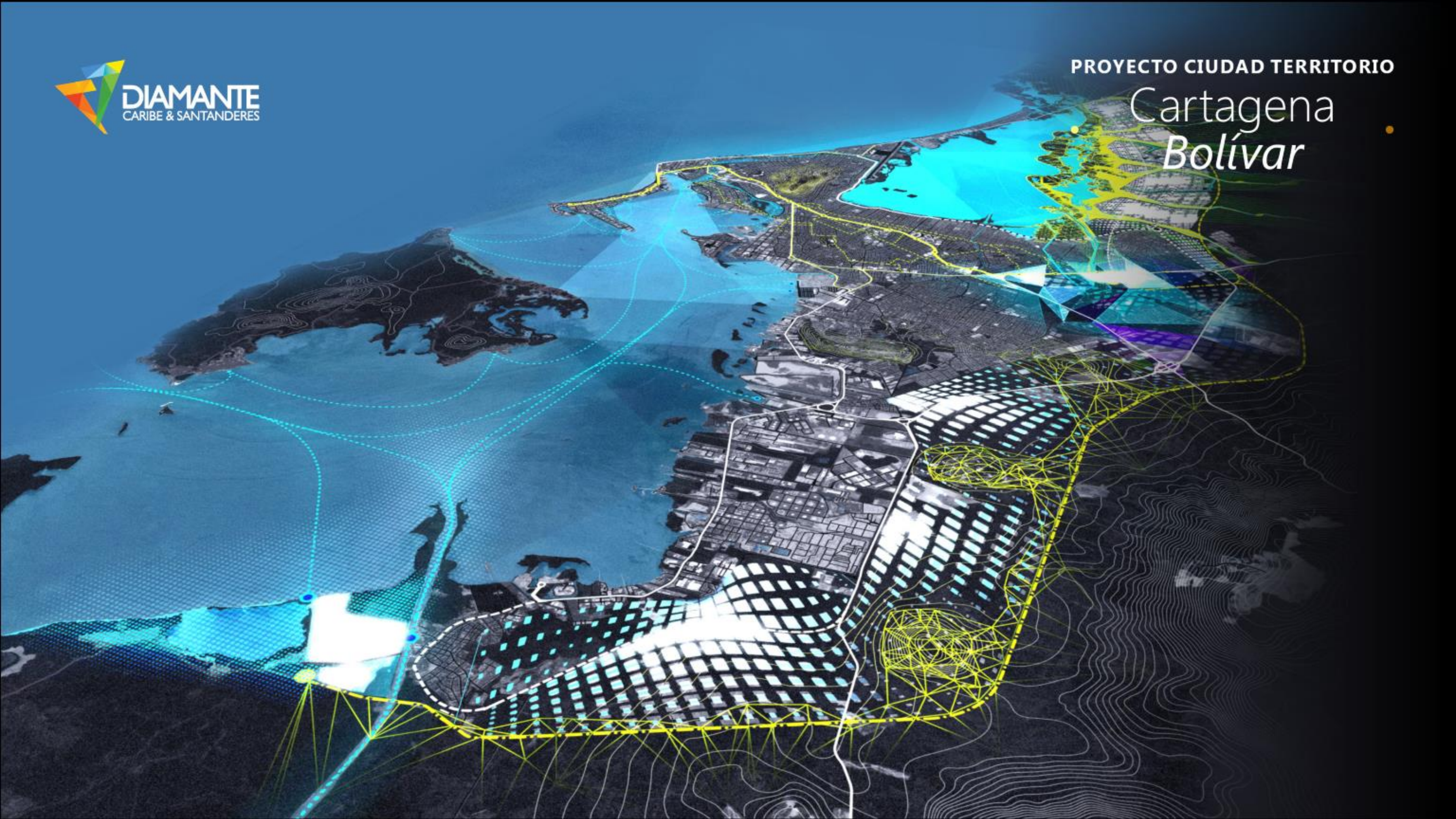
Proyectos Estratégicos



Barranquilla
Atlántico



Cartagena *Bolívar*



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

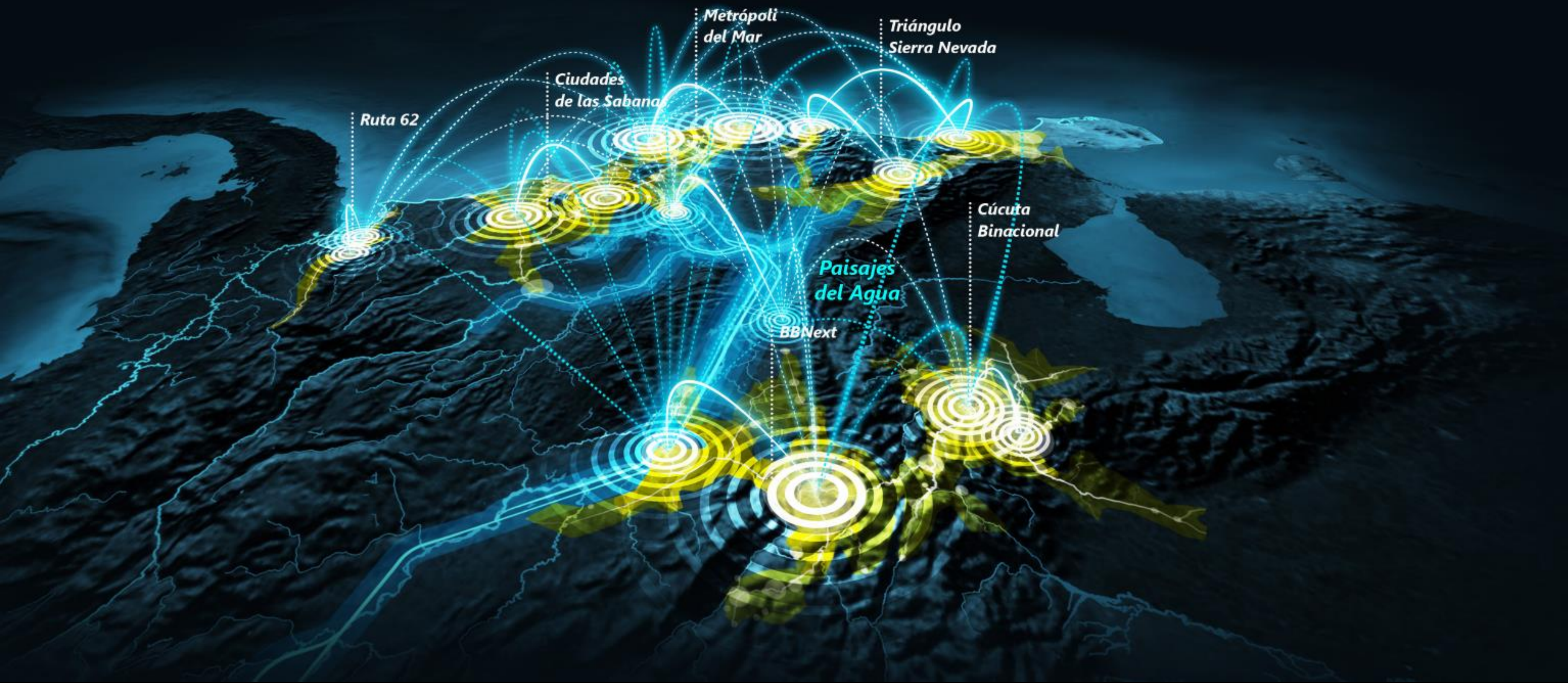
Fachada Marítima

Isla del Diablo

El Bosque

Hacia un Modelo Territorial Policéntrico

Diamante Digital
Diamante Cloud





BUILDING
THE
EUROPEAN
DIAGONAL

Diagonal

TTT FUNDACION METROPOLI

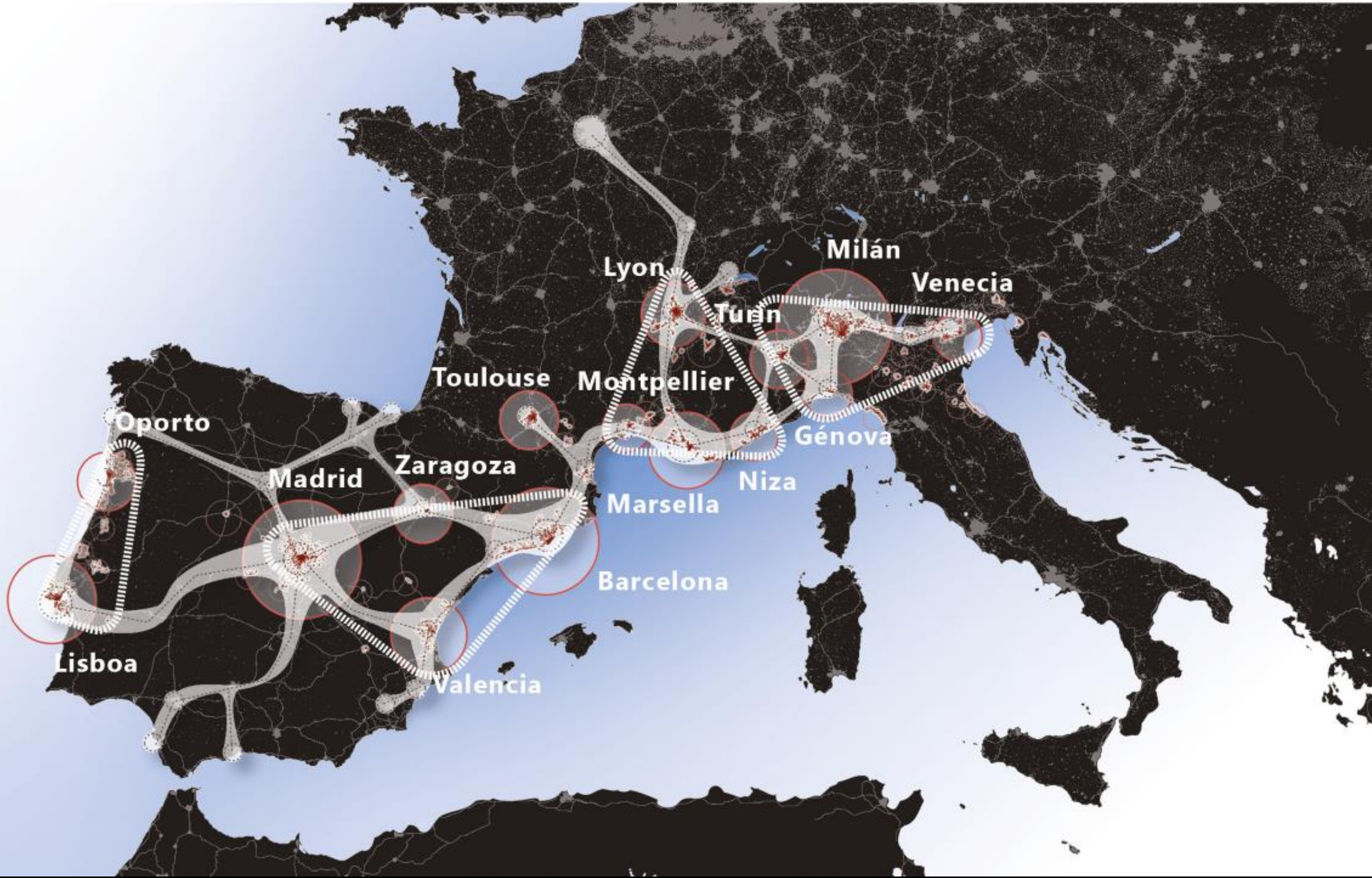
EUROPEAN DIAGONAL

Super City Hubs and Satellites



Hacia un Modelo Territorial Policéntrico

La Diagonal Europea



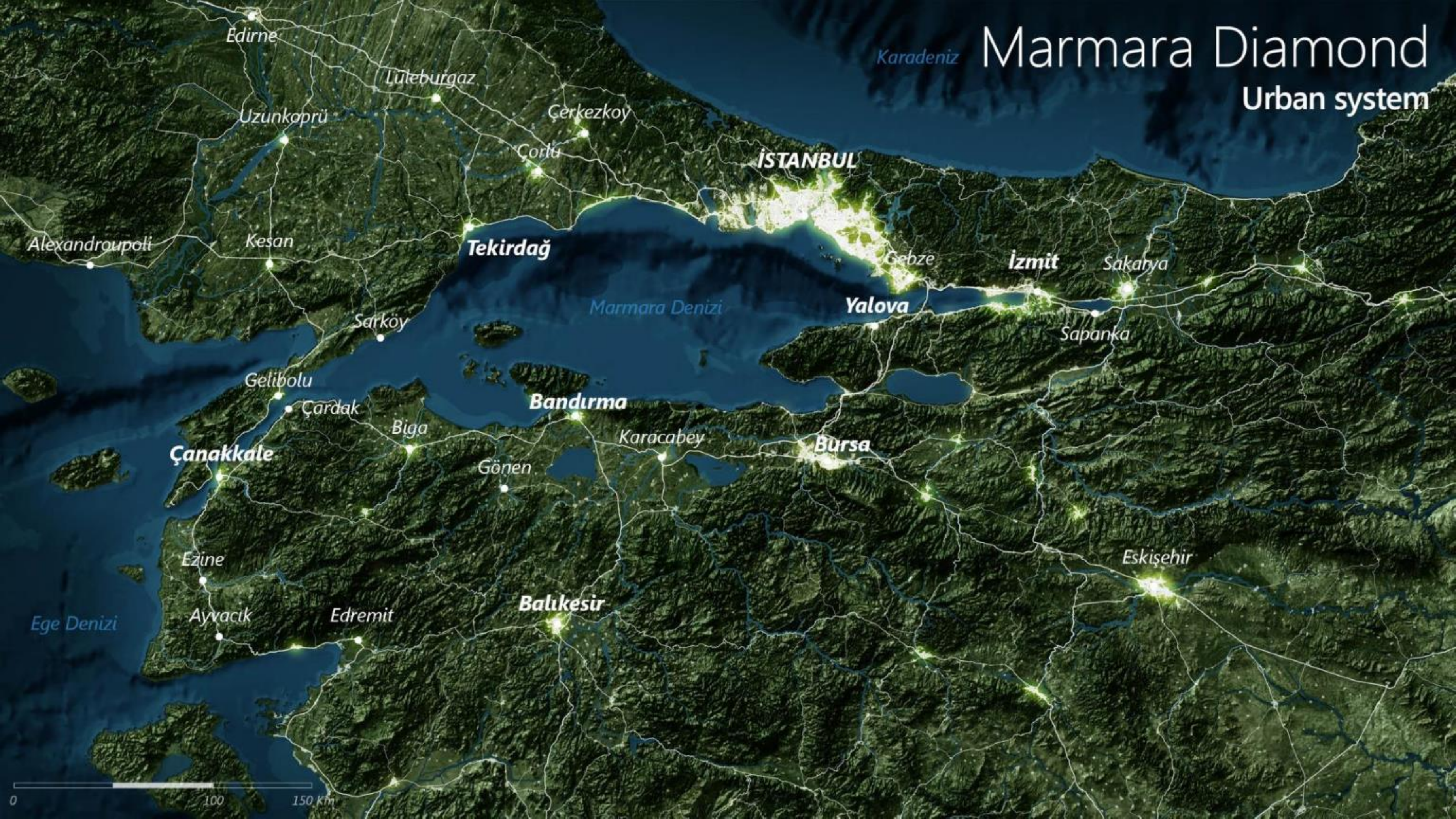
Territorial Context

Continental Joints



Marmara Diamond

Urban system



İstanbul Coast

Location



KARADENİZ

Büyükçekmece

Maslak

İstanbul

Adalar

Gebze

İzmit

Yalova

MARMARA DENİZİ

0 10 20 Km

İstanbul Coast

İstanbul Boğazı

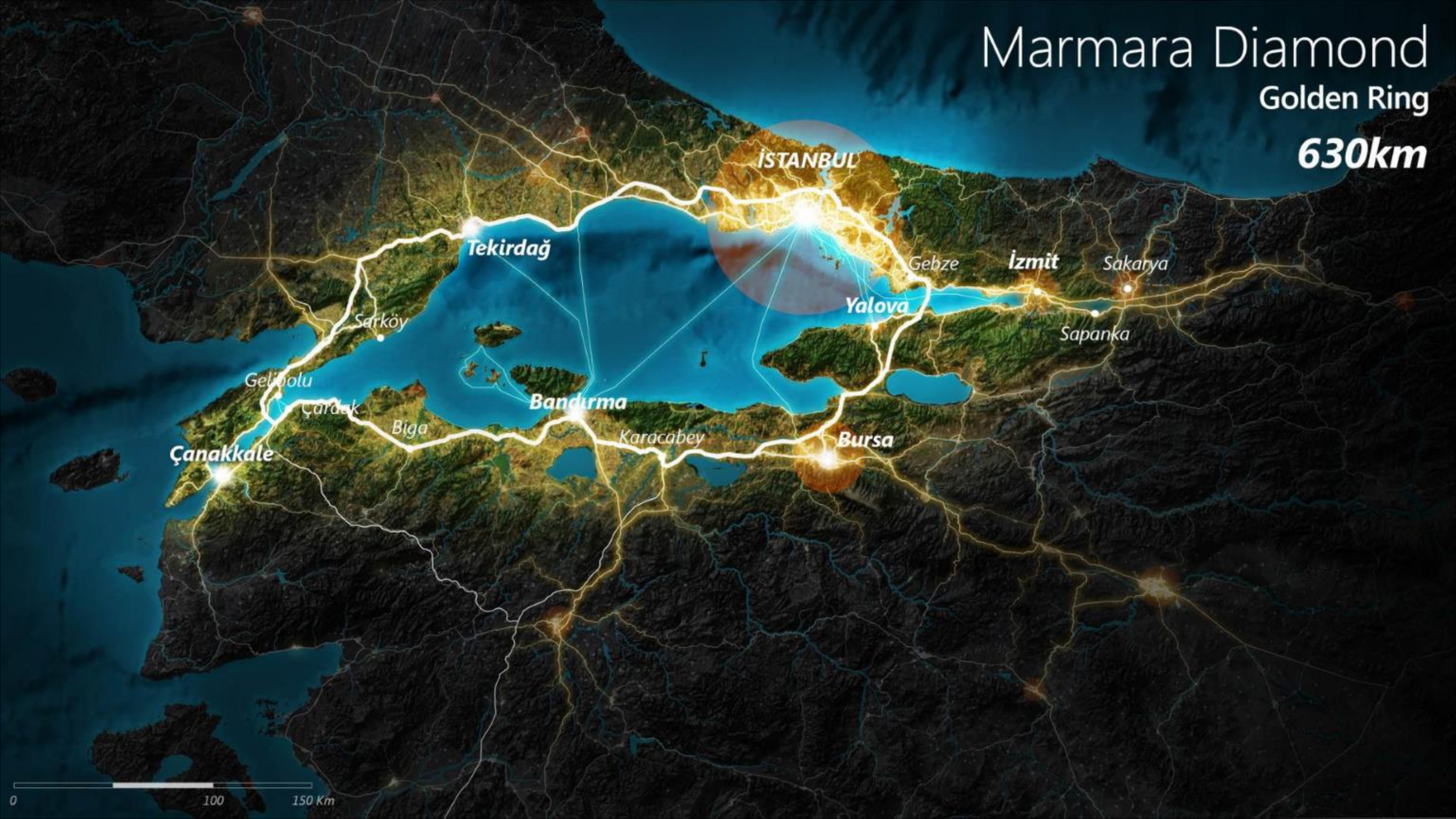


GAMINA

Marmara Diamond

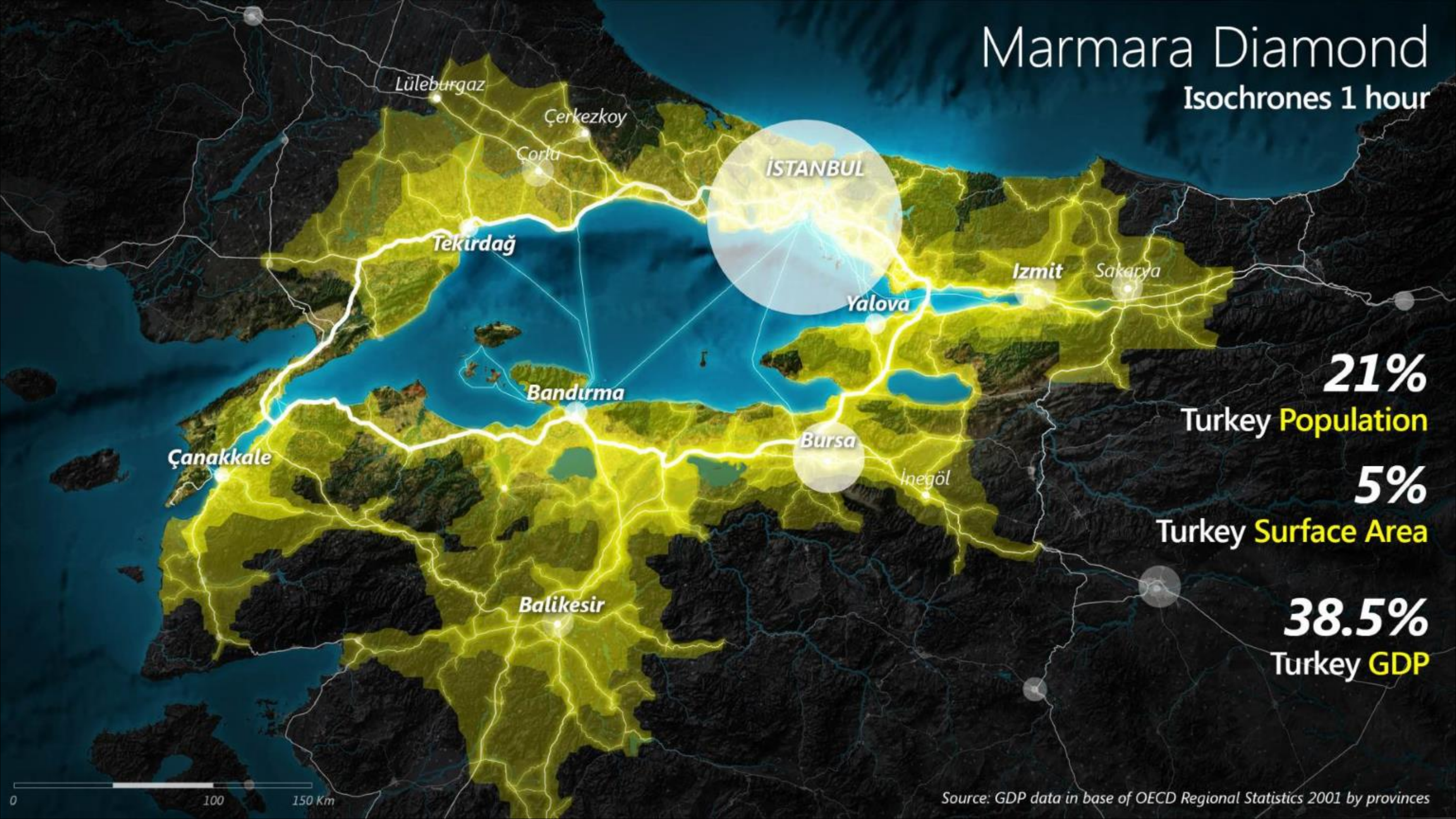
Golden Ring

630km



Marmara Diamond

Isochrones 1 hour



Source: GDP data in base of OECD Regional Statistics 2001 by provinces



Sea of Marmara Diamond

Marmara Diamond

Marmara Ring



İSTANBUL

Tekirdağ

Izmit

Yalova

Bandırma

Bursa

Çanakkale

Malacca Strait Diagonal

Regional Context

One Belt One Road

Silk Road Economic Belt

21st Century Maritime Silk Road

Economic Corridor



Source: Mercator Institute for China Studies (Merics)

TERRITORIAL CONTEXT

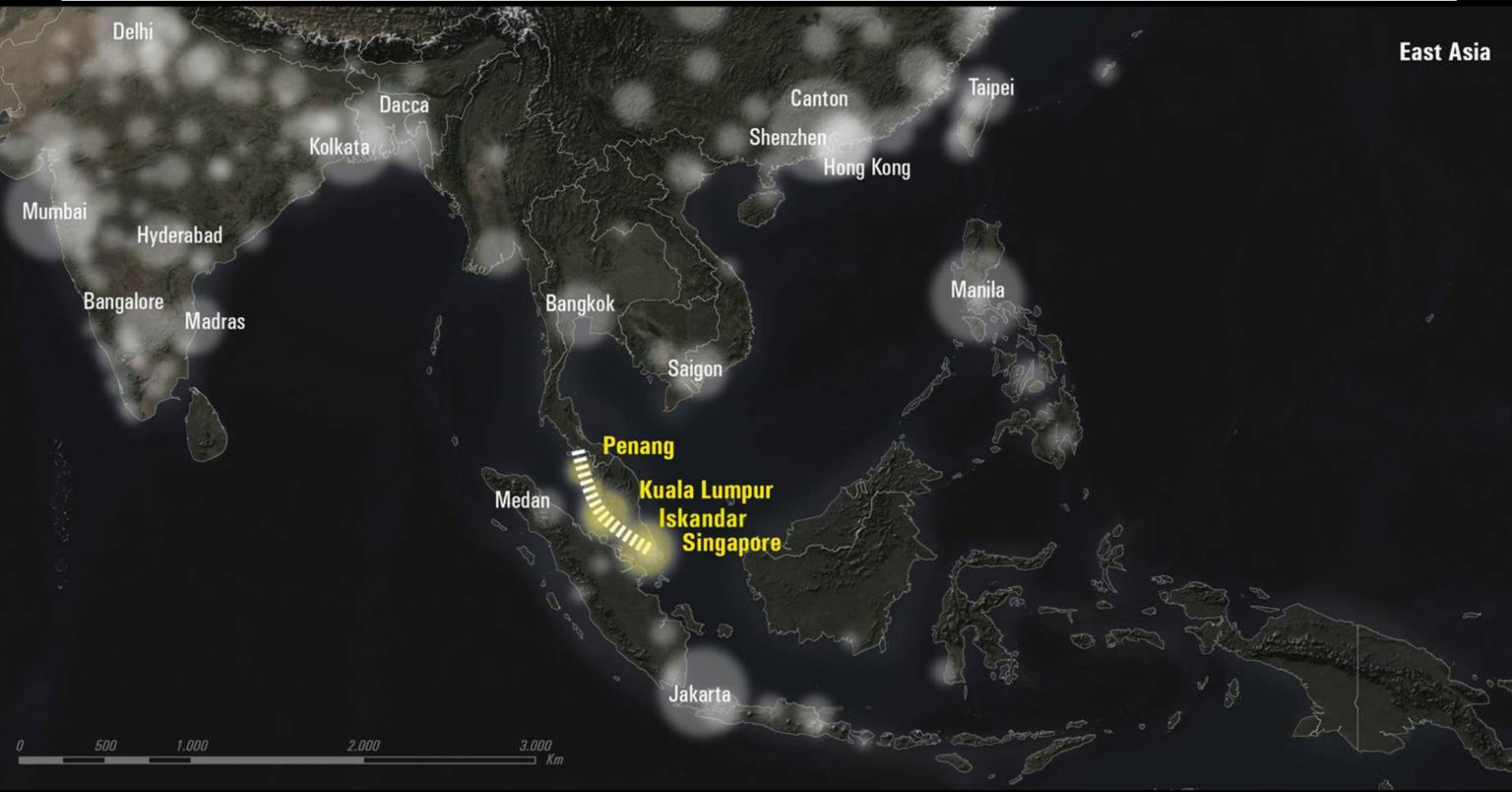
Java Island

Lights

Urban Agglomerations



Source: USGS Land Use (<http://www.opengis.uab.es/>)



75.477
Vessels/year (2016)

Malacca Strait Diagonal
The Malacca Strait Territory
Ship Traffic

High movements

Low movements

*Strait of
Malacca*

Source: National Oceanic and Atmospheric Administration (NOAA)

Malacca Strait Diagonal

Regional Context of the Diagonal Port System



Bay of Bengal

Malacca Strait Diagonal

Regional Context of the Diagonal Relief

3.300 m

0 m

South China Sea

Strait of Malacca

Barisan Mountains

Medan

Barisan Mountains

Mount Bintang

1.880 m

Greater Penang

Mount Korbu

2.182 m

Mount Tahan

2.187 m

Mount Benom

2.108 m

Greater Kuala Lumpur

Mount Belemut

Melaka

Muar

Iskandar

Singapore

Dumai

Pakanbaru

Hat Yai

Satun

Alor Setar

Kota Bharu

Kuala Terengganu

Kuantan

Banda Aceh

Indian Ocean

100

200

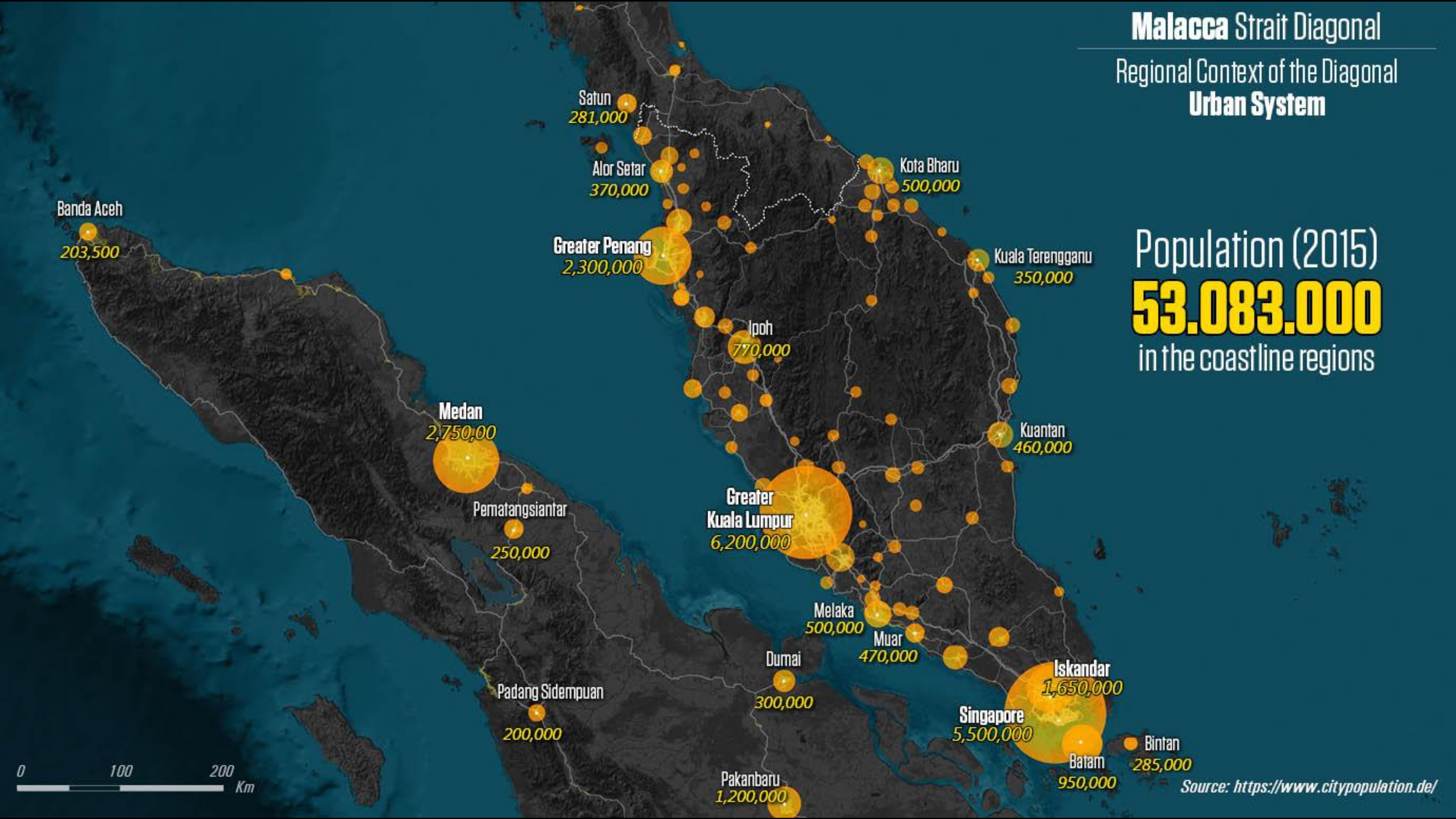
Km

Source: Shuttle Radar Topography Mission - NASA

Malacca Strait Diagonal

Regional Context of the Diagonal Urban System

Population (2015)
53.083.000
in the coastline regions



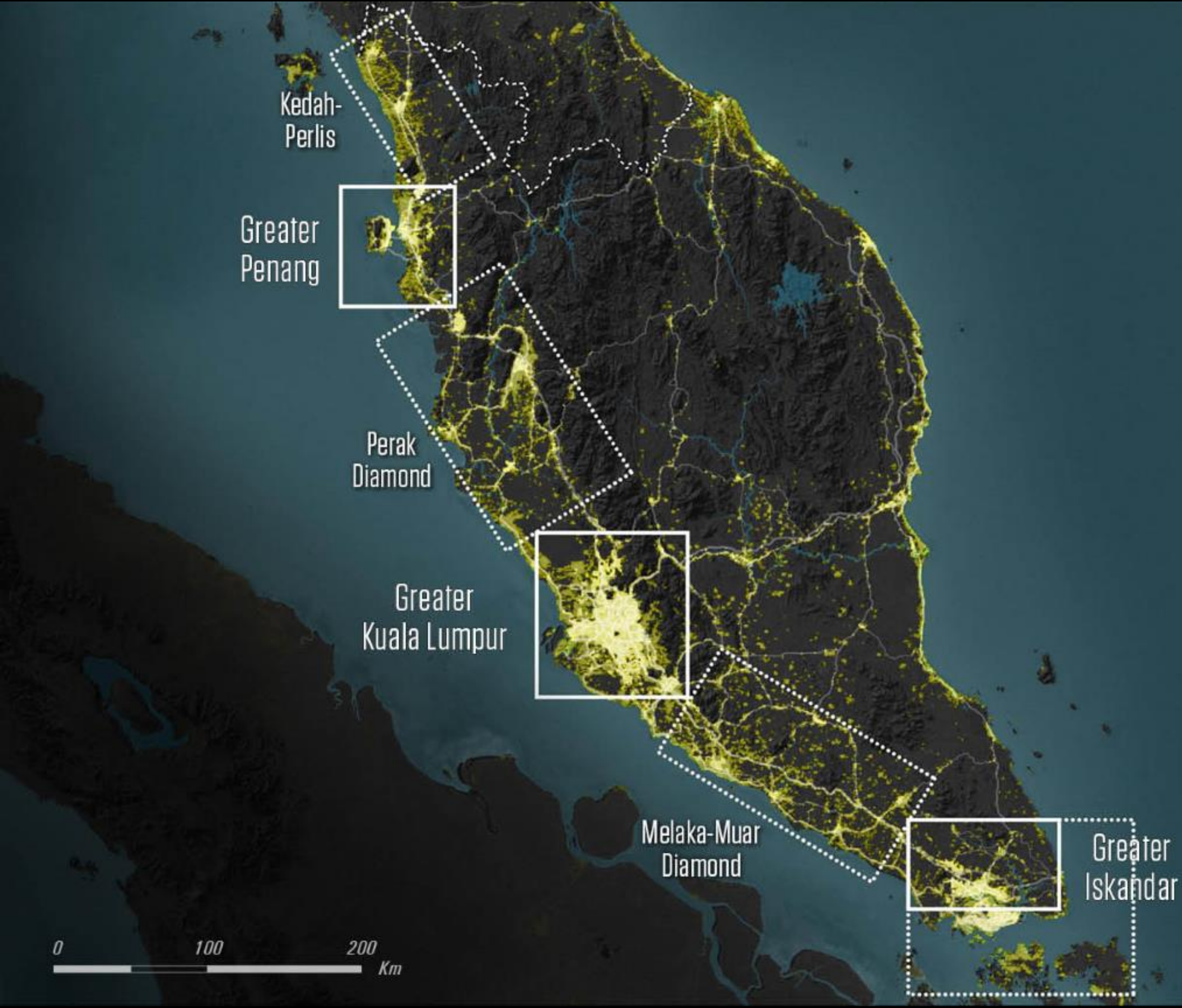
OVER 16 MILLION PEOPLE IN THE MALACCA STRAITS DIAGONAL

Population by Metropolitan Area



Building the **Malacca Strait Diagonal**

THE URBAN DIAMOND



Supercities

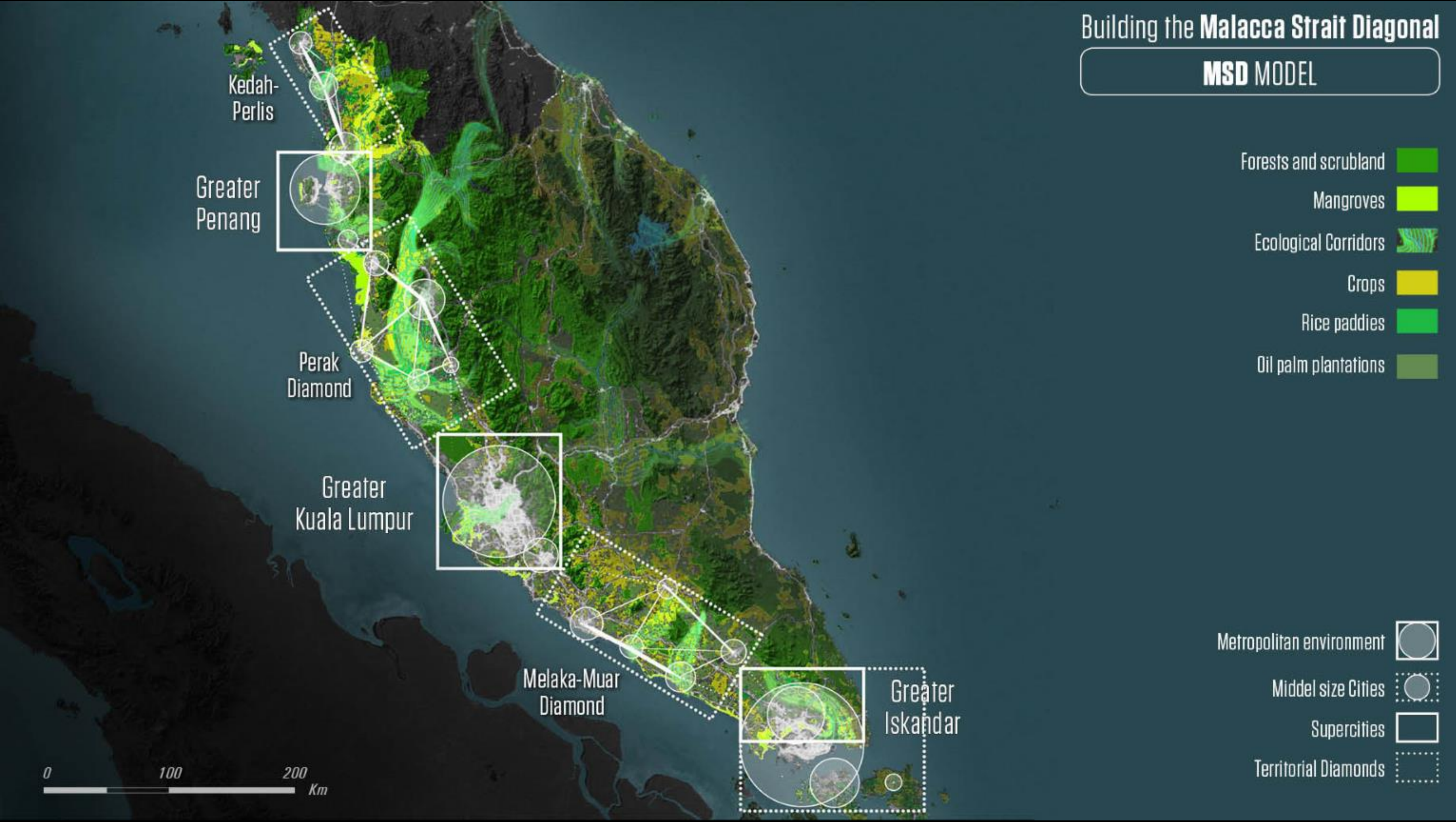


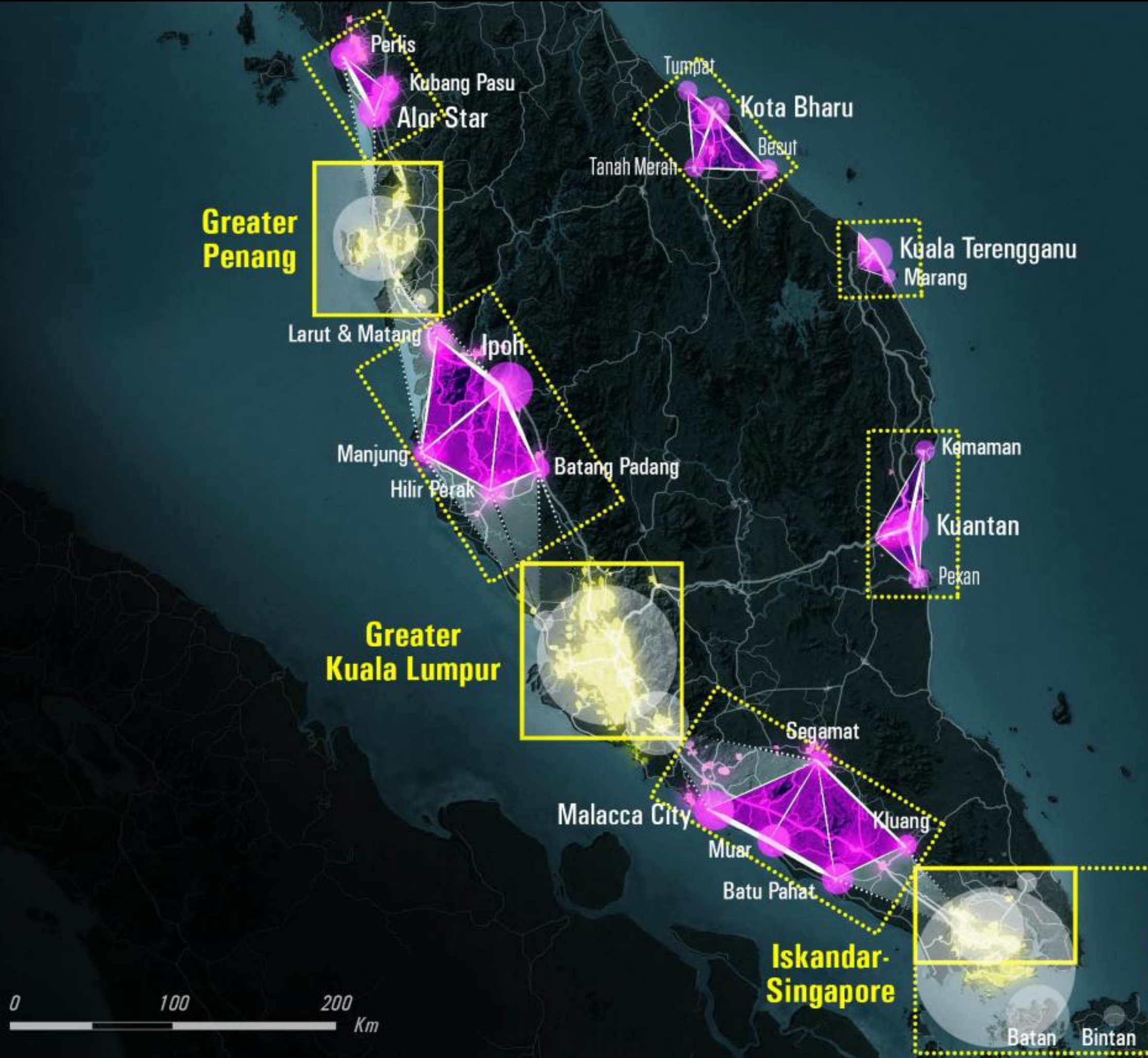
Territorial Diamonds



Building the **Malacca Strait Diagonal**

MSD MODEL





ASEAN SUPERCITY

The Bintan Project

TOWARDS THE ASEAN SUPERCITY

Built Areas



Source: The SIJORI Cross Border Region. Cartography by Polytechnic University Zurich

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

Urban Growth
1900



Source: The SIJORI Cross Border Region. Cartography by Polytechnic University Zurich

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

Urban Growth
1950



Source: The SIJORI Cross Border Region. Cartography by Polytechnic University Zurich

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

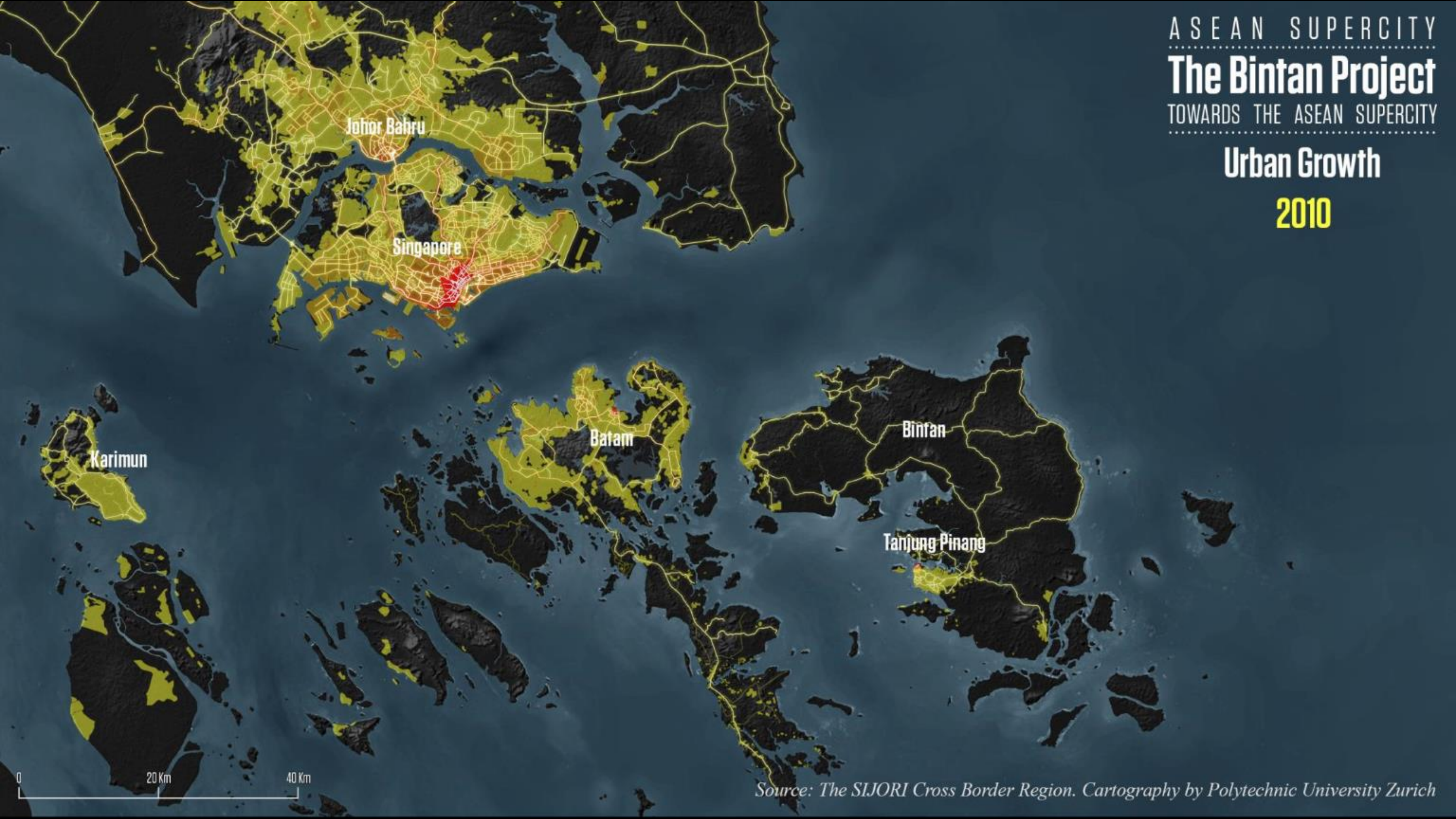
Urban Growth
1990



Source: The SIJORI Cross Border Region. Cartography by Polytechnic University Zurich

ASEAN SUPERCITY
.....
The Bintan Project
.....
TOWARDS THE ASEAN SUPERCITY
.....

Urban Growth
2010



Source: The SIJORI Cross Border Region. Cartography by Polytechnic University Zurich

A dark-themed map showing the island of Singapore and the Riau Islands. A bright yellow-green dot marks the center of Singapore. White lines radiate from this dot, representing isochrones, and connect to various points on the islands. The word "Singapore" is written in large white letters above the dot.

Singapore

ASEAN SUPERCITY

The Bintan Project

TOWARDS THE ASEAN SUPERCITY

Singapore-Johor-Riau Islands

ISOCHRONES STUDY

ASEAN SUPERCITY
.....
The Bintan Project
.....
TOWARDS THE ASEAN SUPERCITY
.....

Isochrones
from Singapore



15 min

0 20 Km 40 Km

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

Isochrones
from Singapore



30 min

0 20 Km 40 Km

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

Isochrones
from Singapore



45 min

0 20 Km 40 Km

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

Isochrones
from Singapore



1h

0 20 Km 40 Km

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

Isochrones
from Singapore



1 h 30 min

0 20 Km 40 Km

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

Isochrones
from Singapore



2h

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

Isochrones
from Singapore



2h

ASEAN SUPERCITY
The Bintan Project
TOWARDS THE ASEAN SUPERCITY

Iskandar
+
Singapore
+
BBK
(Bintan+Batam+Karimun)



CRITICAL CARTOGRAPHY
The Bintan Project
The Intelligent Island of Indonesia

**Isochrones from
Tanjung Uban
2 Hours**



ASEAN SUPERCITY

The Bintan Project

FUTURE VISION OF BINTAN ISLAND

Space Syntax Local

High accessibility

Low accessibility



0 10 Km 20 Km

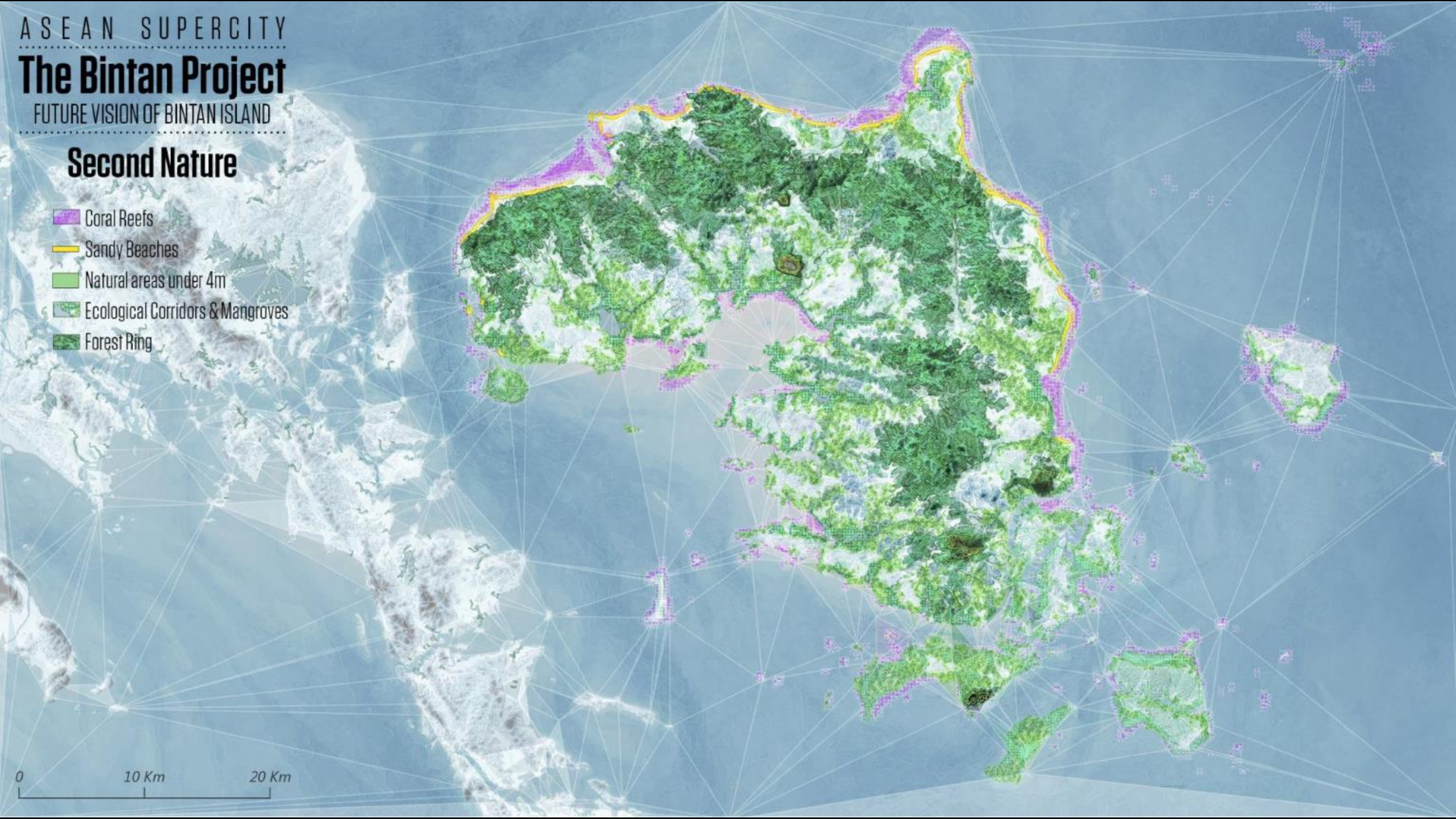
ECOSYSTEMS & SECOND NATURE

The Bintan Project

COASTLINE ECOSYSTEM

Location Coast sections





ASEAN SUPERCITY

The Bintan Project

FUTURE VISION OF BINTAN ISLAND

Space Syntax Local

High accessibility

Low accessibility



0 10 Km 20 Km

THE INTELLIGENT ISLAND OF INDONESIA

The Bintan Project

FUTURE VISION & TERRITORIAL MODEL

Future Vision

Environmental and Rural Components

- Forest Ring
- Agriculture Lands
- Ecological Corridors
- Beaches
- Coral reefs
- Rural and Fishing Villages
- Dams and water supply

New Development Areas

- 1 Bintan Resorts
- 1 Knowledge Communities
- 2 The Airport City
- 3 BB Financial Center
- 4 Bintan Bay Ecocities
- 5 New Tanjung Pinang
- 6 The "Garden City"
- 7 Kijang and The Archipelago City
- 8 East Coast Ecodevelopmen
- 9 Microislands Program

Connectivity Infrastructures

- The New Bridge
- The Bintan Diagonal
- The Ecoboulevard
- The Grand Arches
- Road System
- Sealinks
- Airports
- Ports



THE INTELLIGENT ISLAND OF INDONESIA

The Bintan Project

TERR. MODEL & STRATEGIC DEVELOPMENT

Future Vision

Tanjung Uban

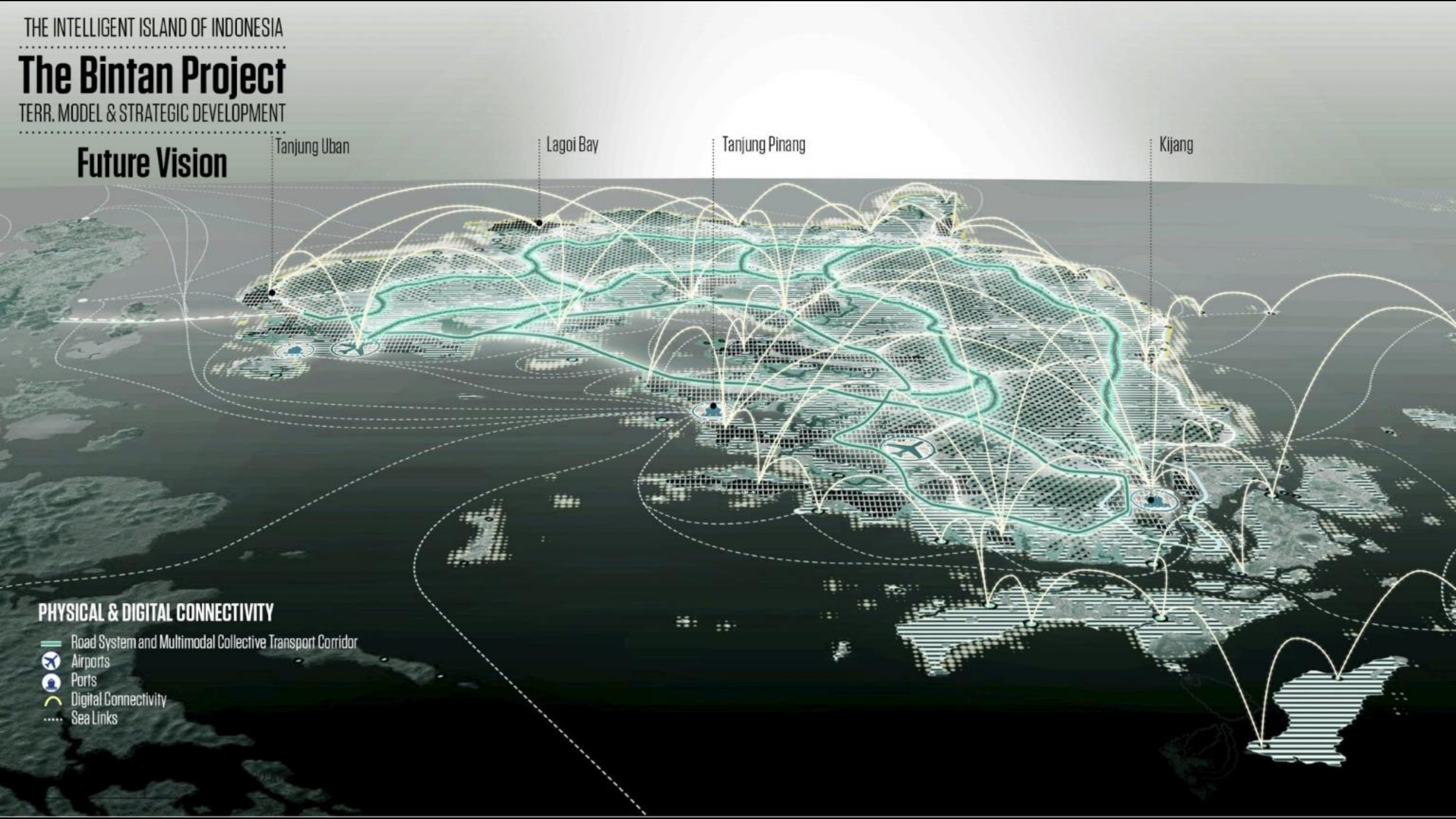
Lagoi Bay

Tanjung Pinang

Kijang

PHYSICAL & DIGITAL CONNECTIVITY

-  Road System and Multimodal Collective Transport Corridor
-  Airports
-  Ports
-  Digital Connectivity
-  Sea Links



Diversification of Activities

**Diverse Tourism Offer
Health & Sport**



Financial Center



**Creativity &
Knowledge Economy**



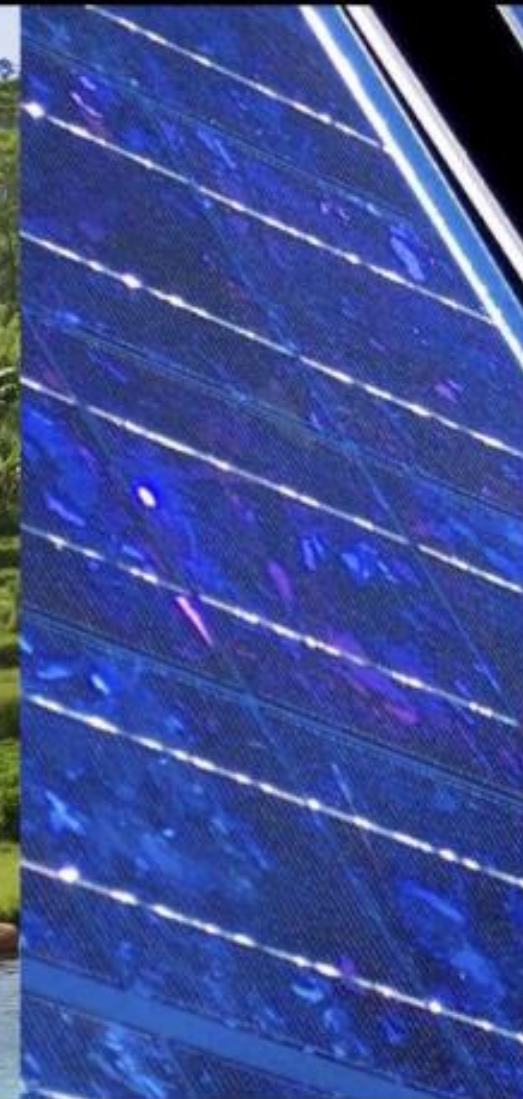
**Industrial Parks &
Aerospace**



**Agriculture &
Agroindustry**



Urban Solutions



**Logistics
& Transports**



The Bintan Project

FUTURE VISION & TERRITORIAL MODEL

Future Vision

Environmental and Rural Components

- Forest Ring
- Agriculture Lands
- Ecological Corridors
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Connectivity Infrastructures

- The New Bridge
- The Bintan Diagonal
- The Ecoboulevard
- The Grand Arches
- Road System
- Sealinks
- Airports
- Ports



OPPORTUNITIES FOR DEVELOPMENT

The Bintan Project

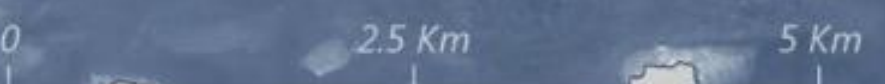
THE AIRPORT CITY

Airport City



The Airport City

Aerospace & industrial Park



ASEAN SUPERCITY
The Bintan Project
THE RIAU ISLANDS



The Blue Diamond. The “Silicon Valley” of Indonesia

BLUE DIAMOND OF INDONESIA
.....
Batam Project
.....



KARIMUN

BATAM

BINTAN

0 20 Km 40 Km

TERRITORIAL CONTEXT

Java Island

Lights

Urban Agglomerations



Source: USGS Land Use (<http://www.opengis.uab.es/>)



Java Capital **Diamond**

CRITICAL CARTOGRAPHY

Java Island

Topography



0 km 100 km 200 km

Source: Shuttle Radar Topography Mission - NASA

Java Island

Urban system



CRITICAL CARTOGRAPHY

Java Capital Diamond

Isochrones

Jakarta





CRITICAL CARTOGRAPHY

Java Capital Diamond

Isochrones

Diamond

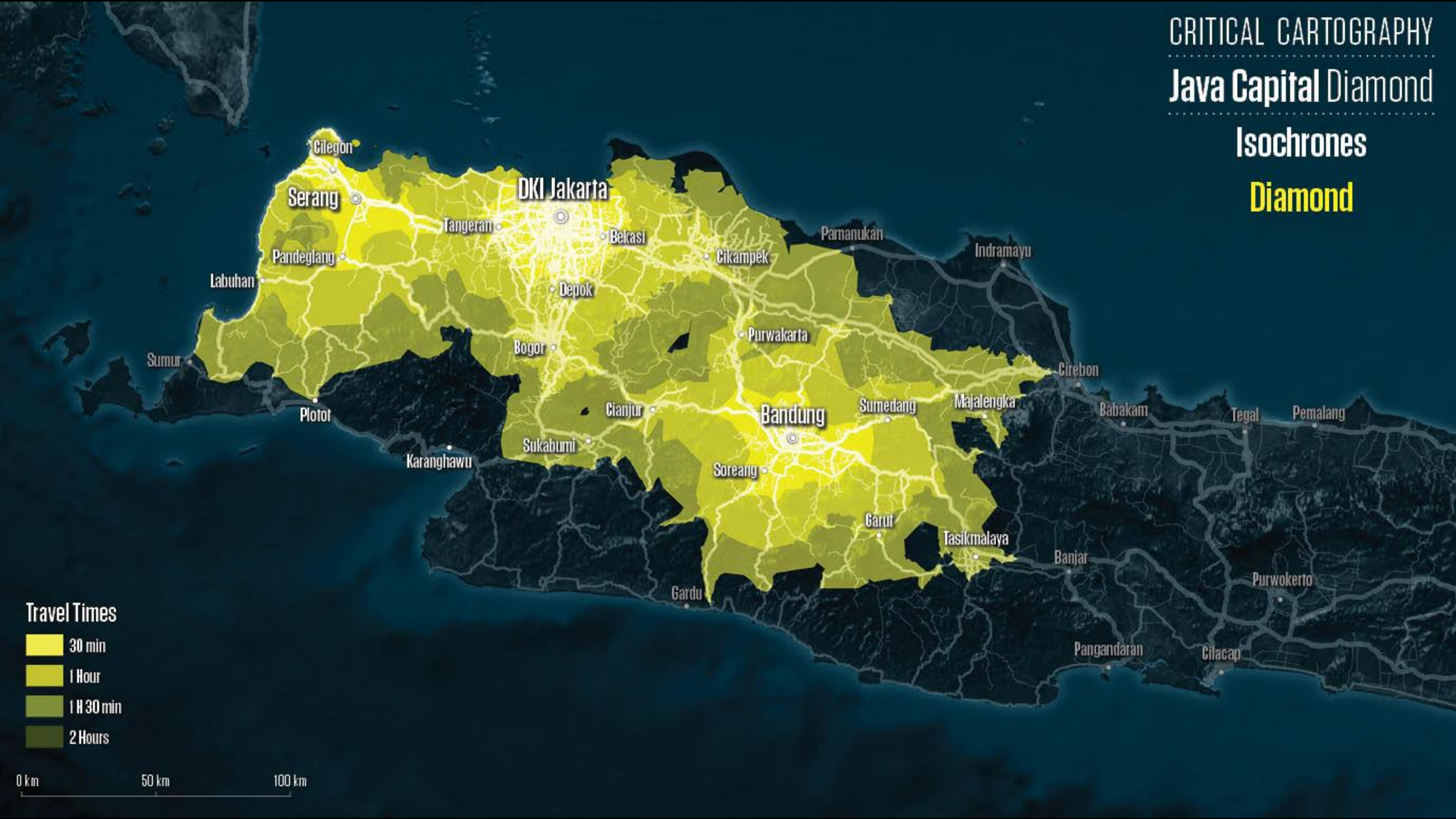


CRITICAL CARTOGRAPHY

Java Capital Diamond

Isochrones

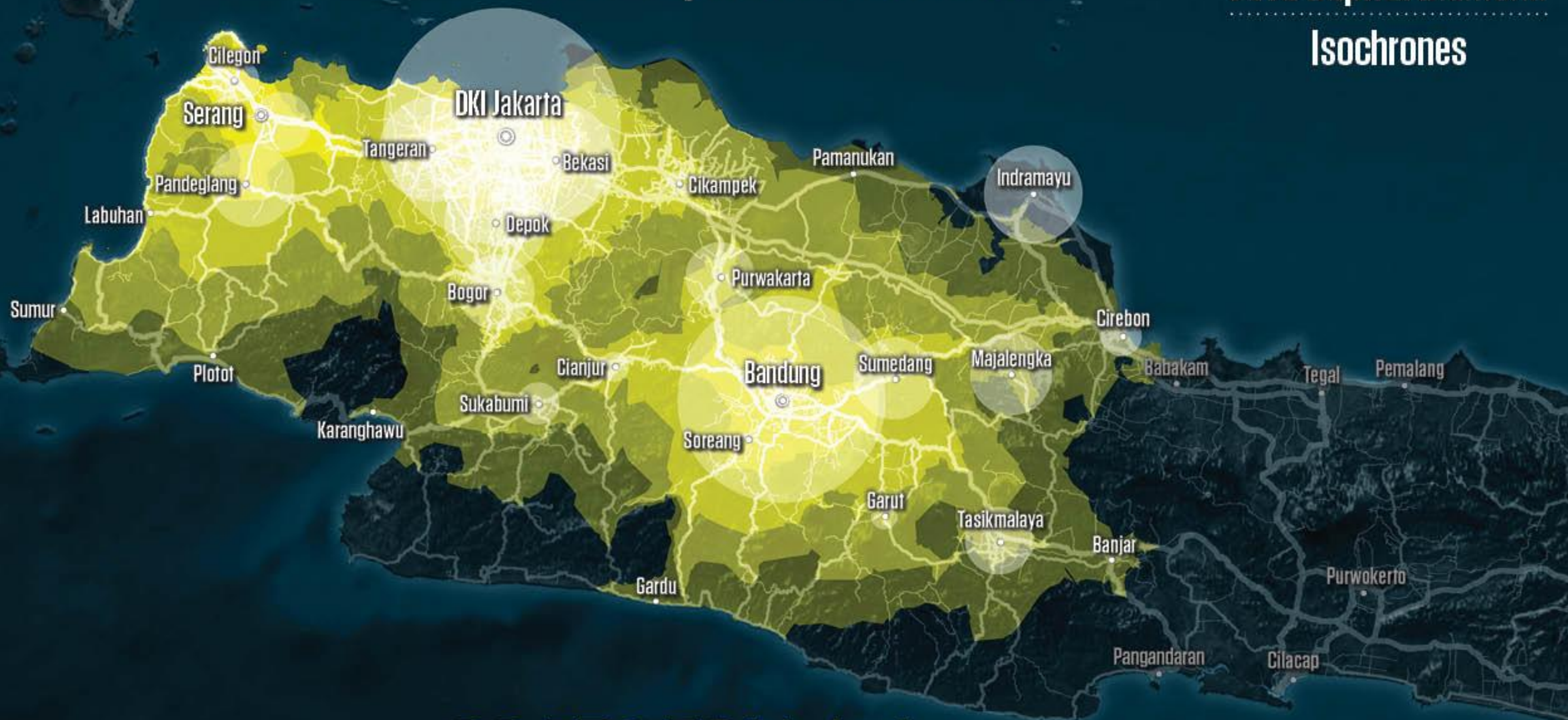
Diamond





Java Capital Diamond

CRITICAL CARTOGRAPHY
Java Capital Diamond
Isochrones



Travel Times



68.756.731 Inhabitants

0 km 50 km 100 km

Java Capital Diamond

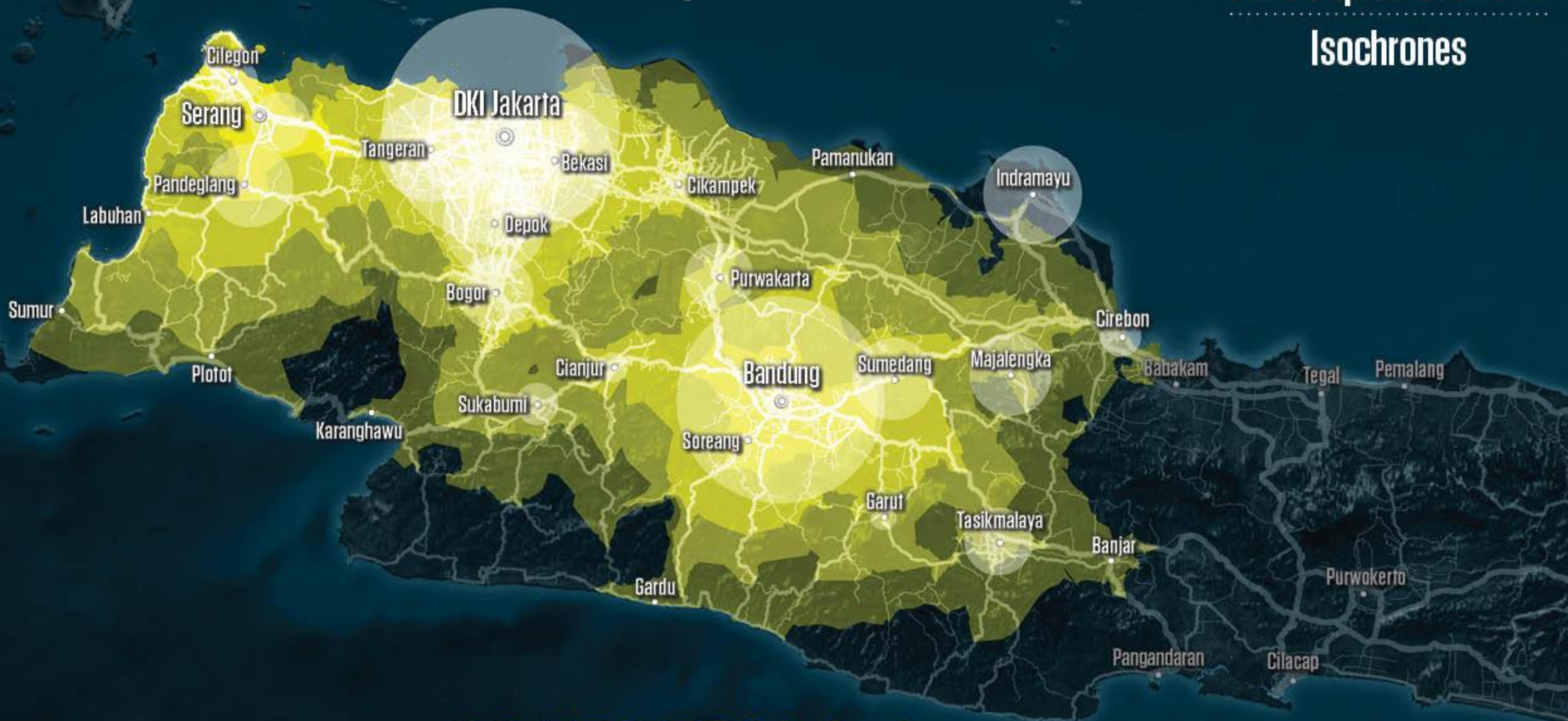
26,9 %
of the Population

1,9 %
of the Surface

respect to the total of Indonesia

Java Capital Diamond

CRITICAL CARTOGRAPHY
Java Capital Diamond
Isochrones

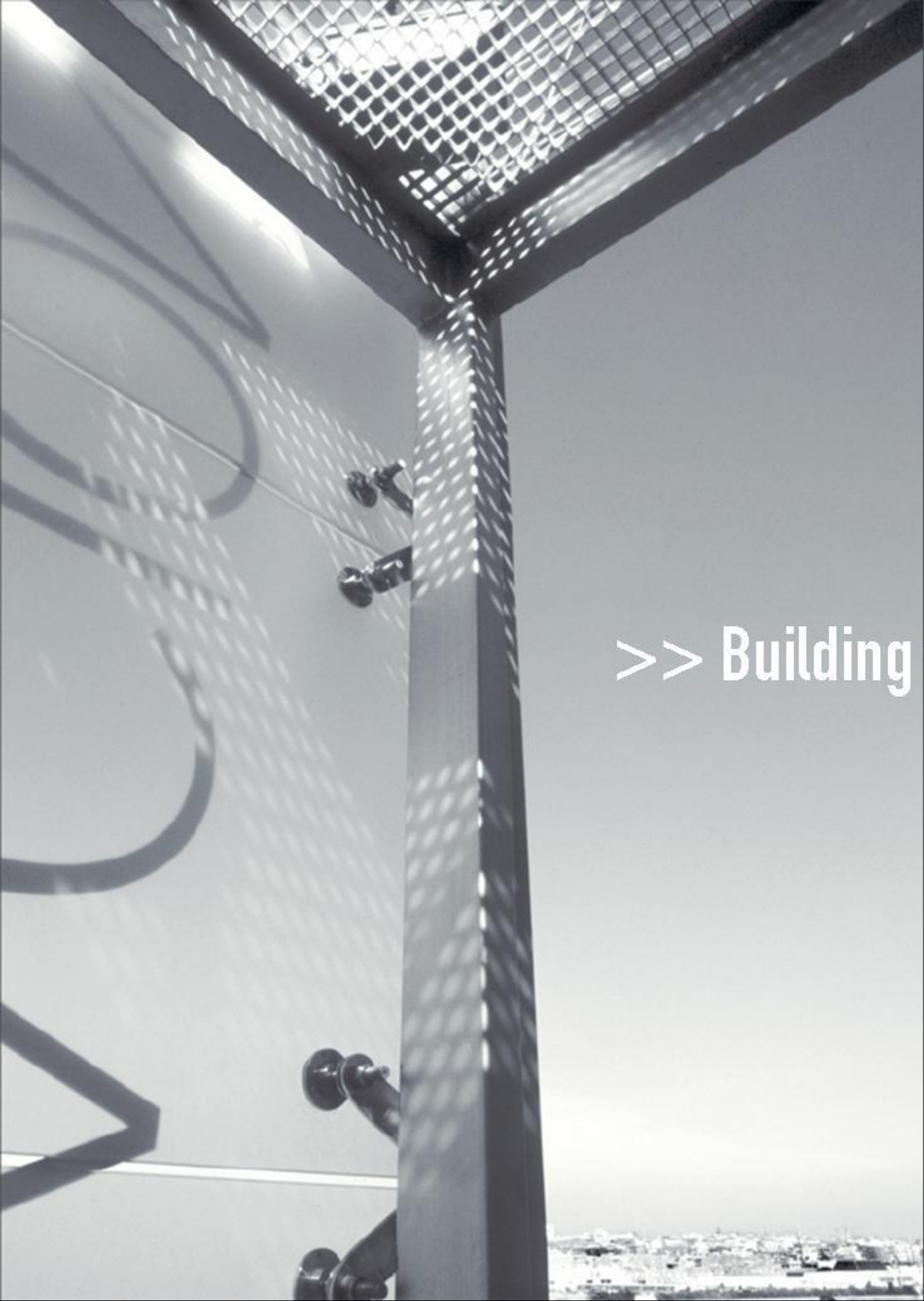


Travel Times



68.756.731 Inhabitants

0 km 50 km 100 km



>> Building **a Sustainable Future**