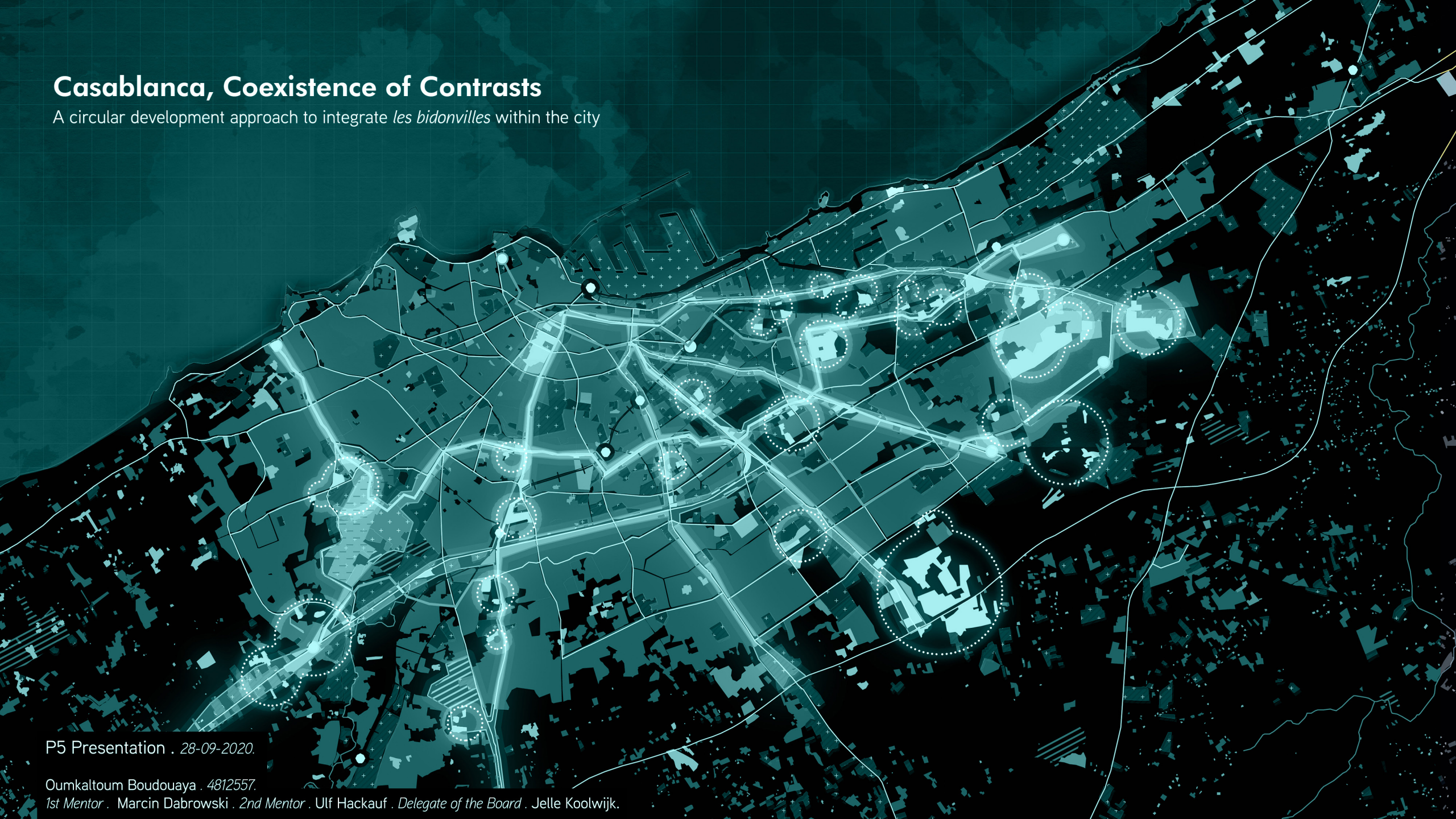


Casablanca, Coexistence of Contrasts

A circular development approach to integrate *les bidonvilles* within the city



P5 Presentation . 28-09-2020.

Oumkaltoum Boudouaya . 4812557.

1st Mentor . Marcin Dabrowski . 2nd Mentor . Ulf Hackauf . Delegate of the Board . Jelle Koolwijk.

**Problem
and
Context**

Analysis



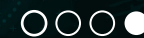
Vision



**Implementation
Strategies**



Design Site



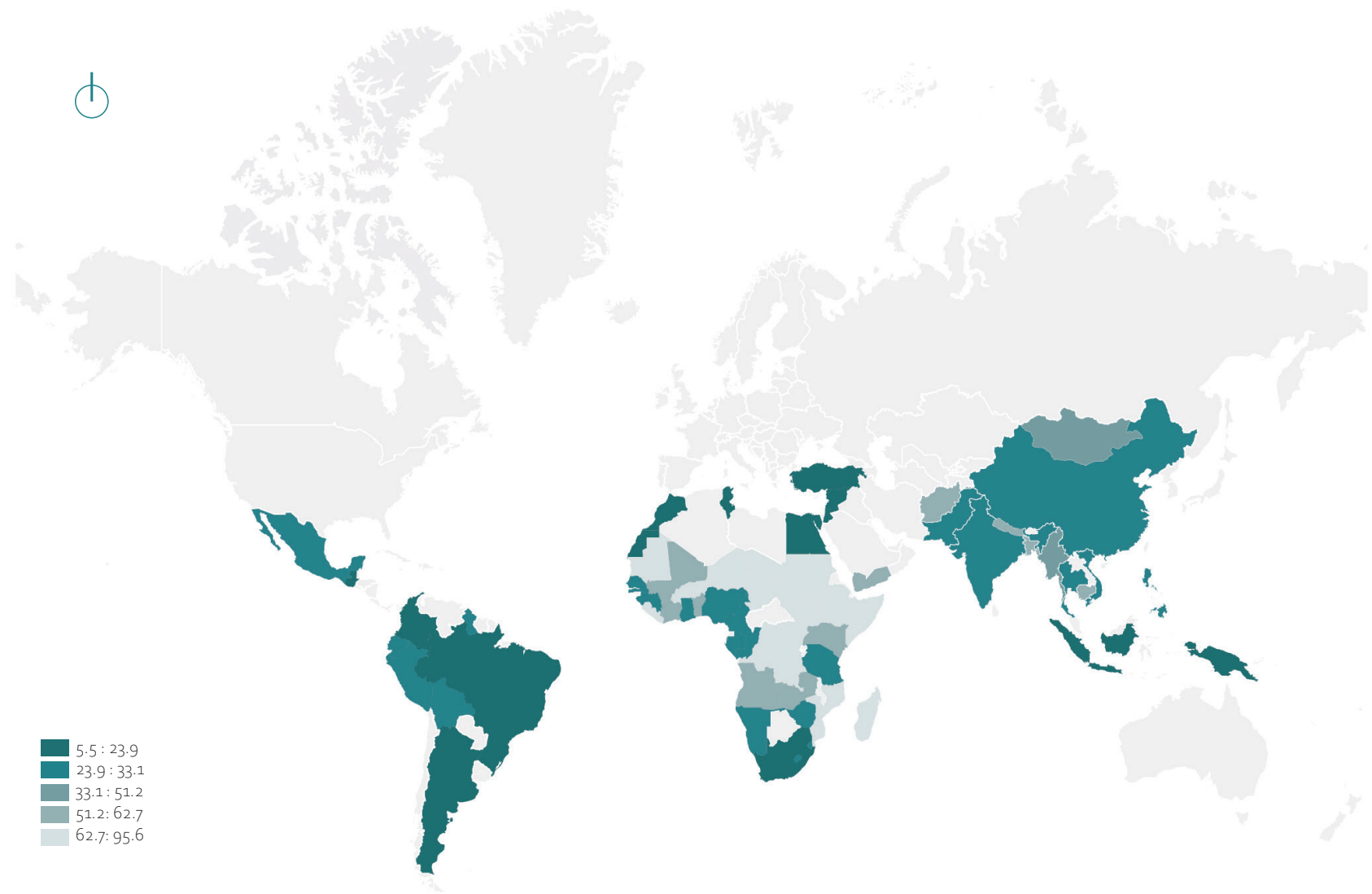
**Conclusion
and
Discussion**



PROBLEM *and* **CONTEXT**

Problem and Context

SLUMS



The total number of slum dwellers in the world stood at about 924 million people in 2001 (UN Human Settlements Programme, 2003). This represents about 32% of the world's total urban population.

Population living in slums (% of urban population) in 2014.
Source: World Bank Indicators



“Slums are a result of the economic forces that pull people towards cities.”
(Almeida, 2013)

Problem and Context

CASABLANCA



0 1000 km



0 450 km



0 10 km

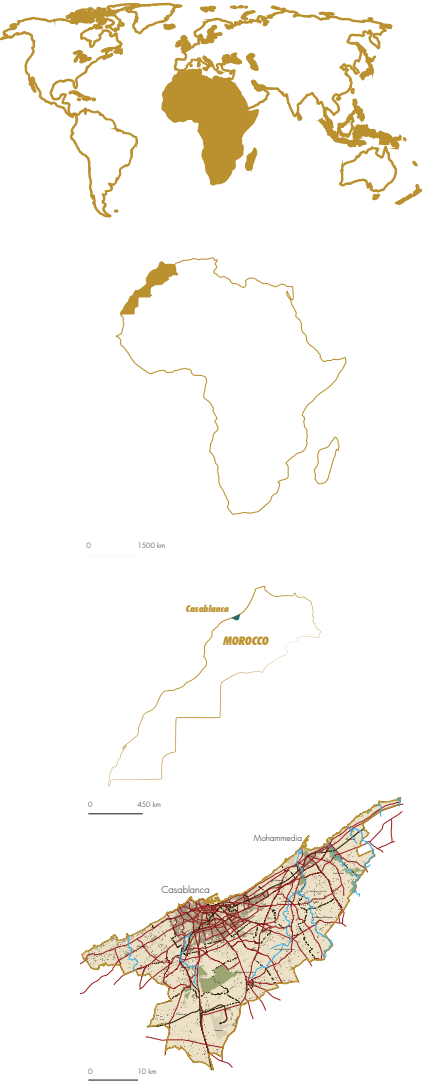
Problem and Context

CASABLANCA



Problem and Context

SLUMS: CASABLANCA





First Bidonvilles Carrières Centrales, Casablanca (1920)





First Bidonvilles Carrieres Centrales, Casablanca (1920)



Oilcan Cities

Literal description by using cans from nearby Landfills which represents the method used by the rural migrants: using existing local materials to build shelters.

Since 2004, the national policy is targeting the bidonvilles and strive to eradicate them all under the programme: Villes Sans Bidonvilles (VSB)
Cities without Slums

BIDONVILLES: OPPOSITION TO ERADICATION





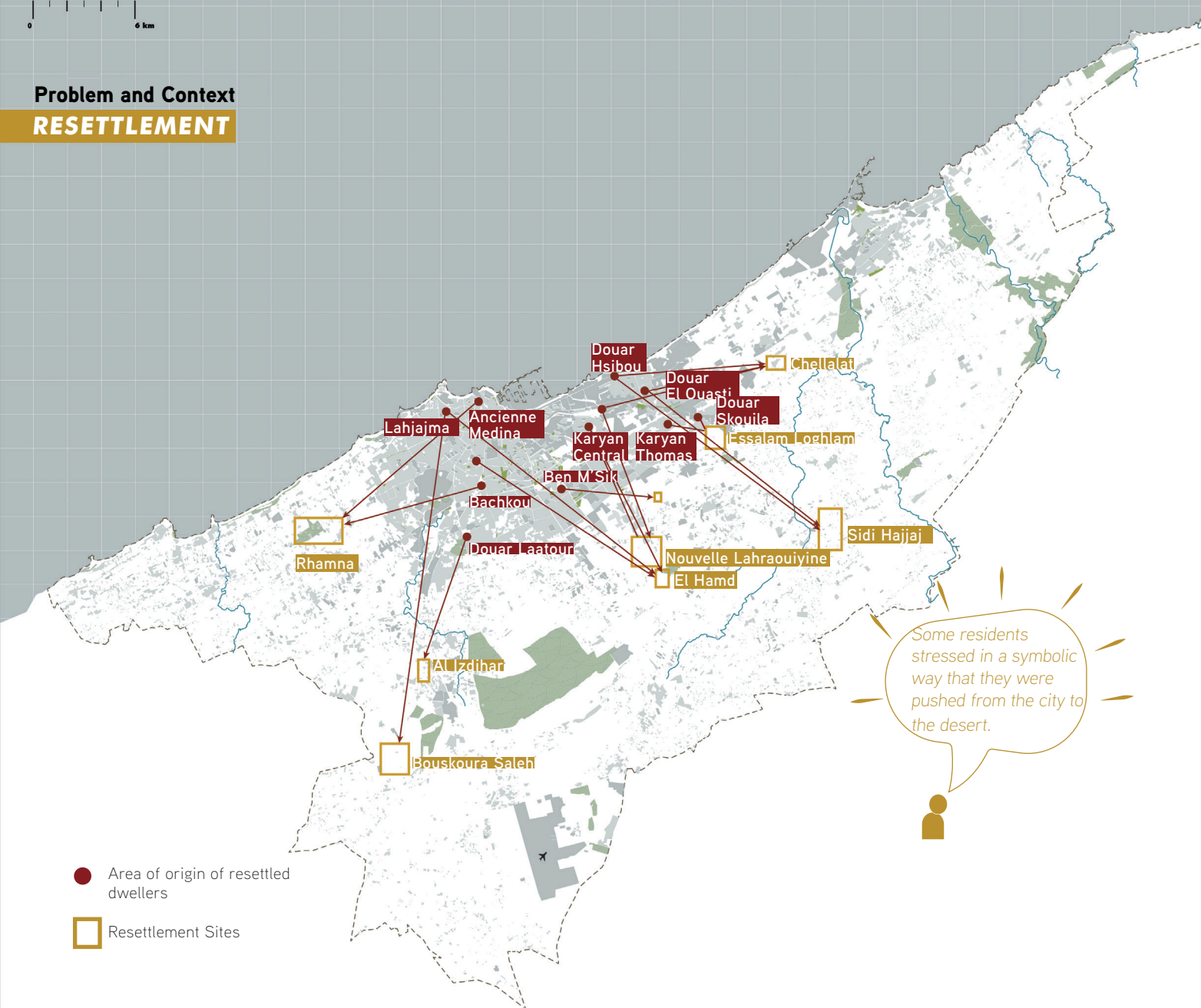
Problem and Context
BIDONVILLES





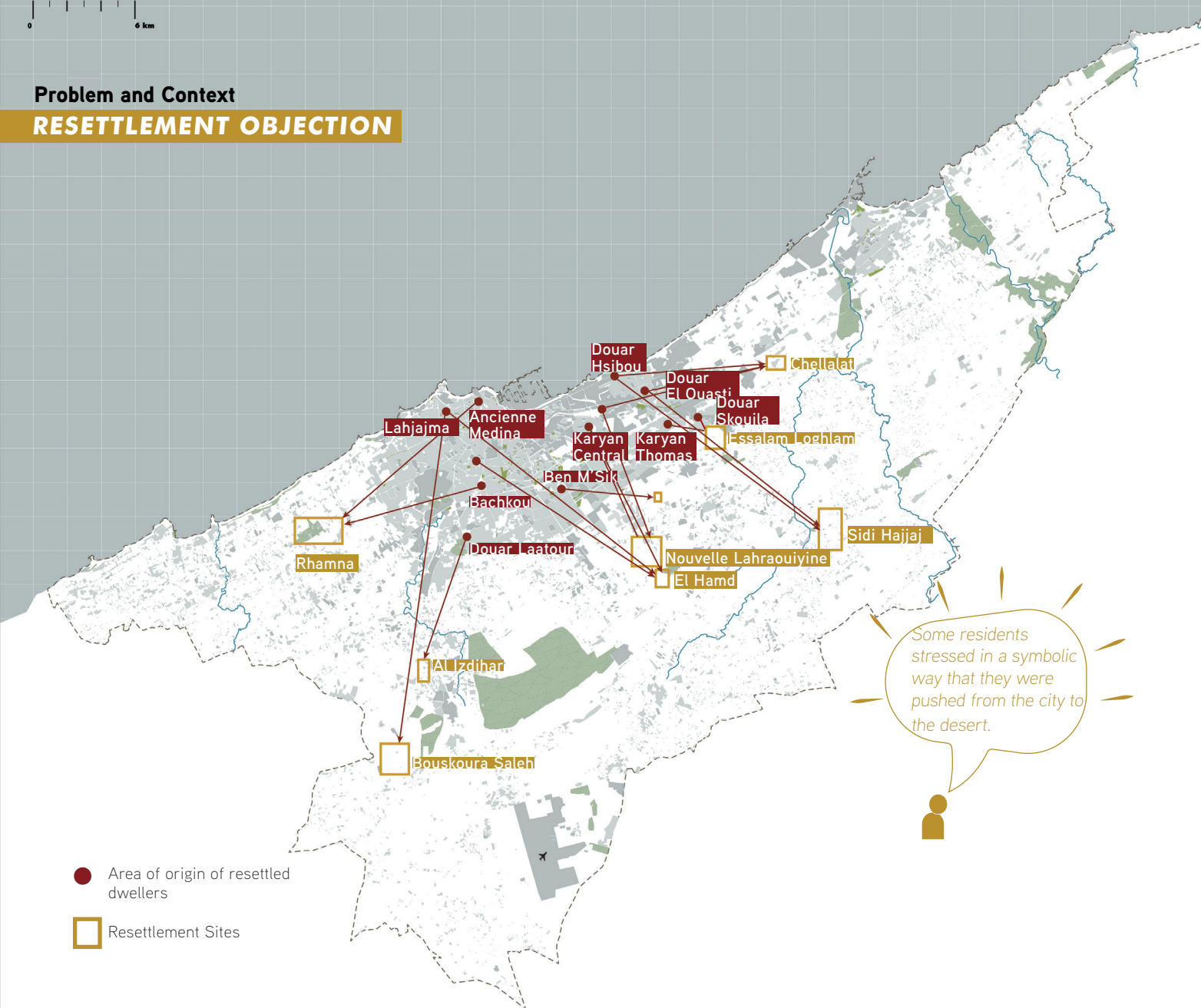
Problem and Context

RESETTLEMENT



Problem and Context

RESETTLEMENT OBJECTION

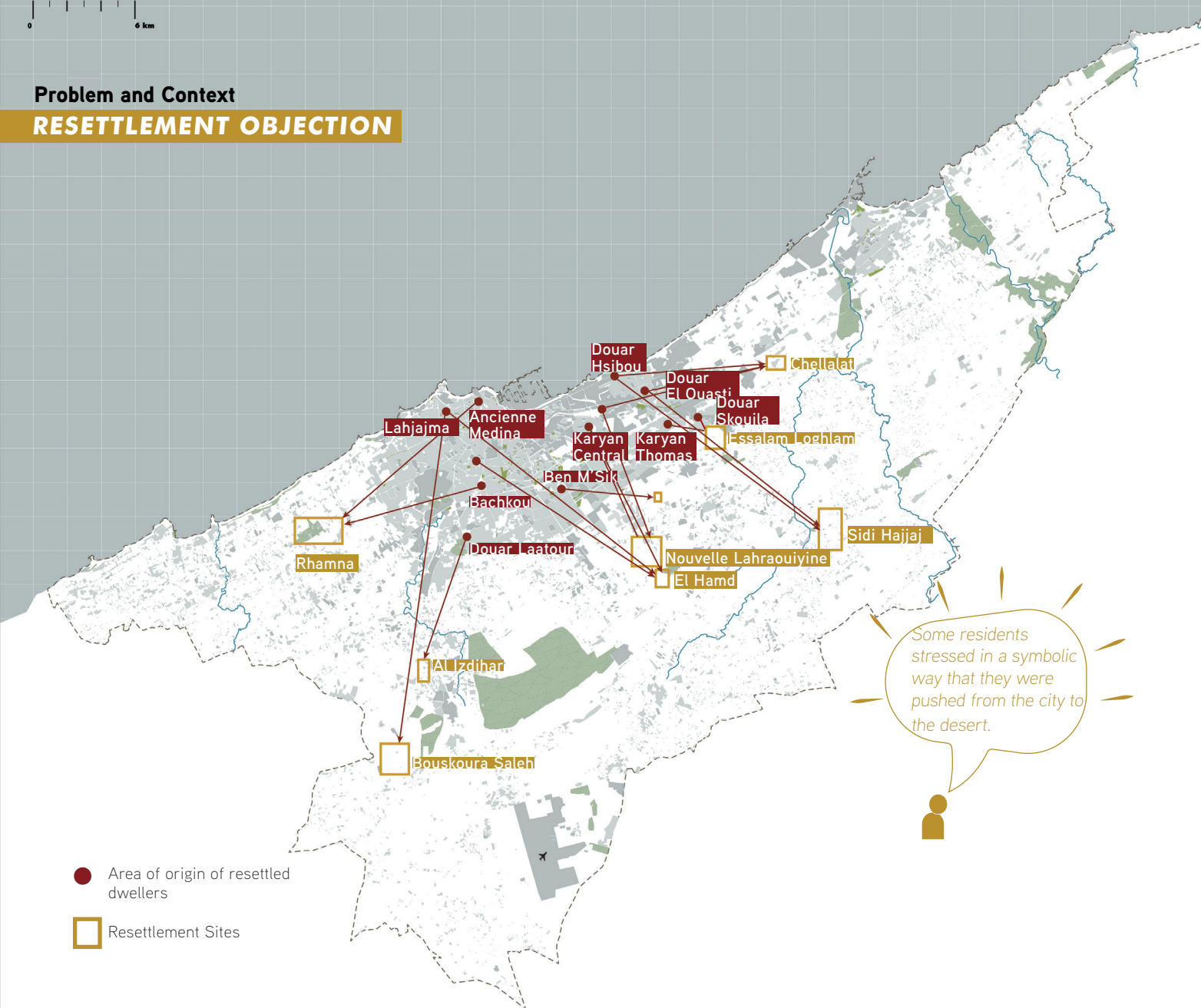


ARGUMENT 1

*Displacing Poverty does not solve it...
it can even worsen it!*

Problem and Context

RESETTLEMENT OBJECTION



ARGUMENT 1

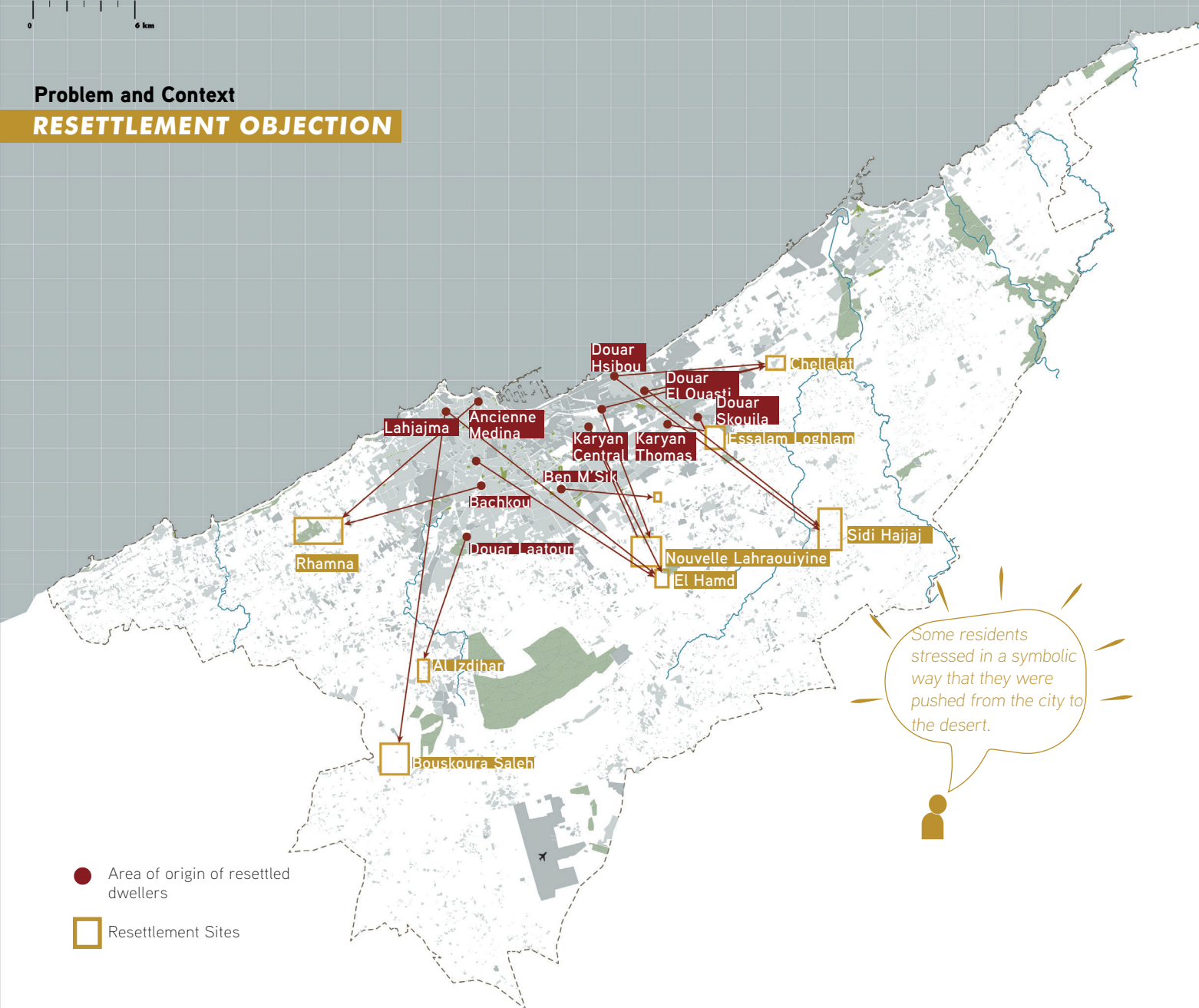
*Displacing Poverty does not solve it...
it can even worsen it!*

ARGUMENT 2

Resettlement causes Urban Sprawl.

Problem and Context

RESETTLEMENT OBJECTION



ARGUMENT 1

*Displacing Poverty does not solve it...
it can even worsen it!*

ARGUMENT 2

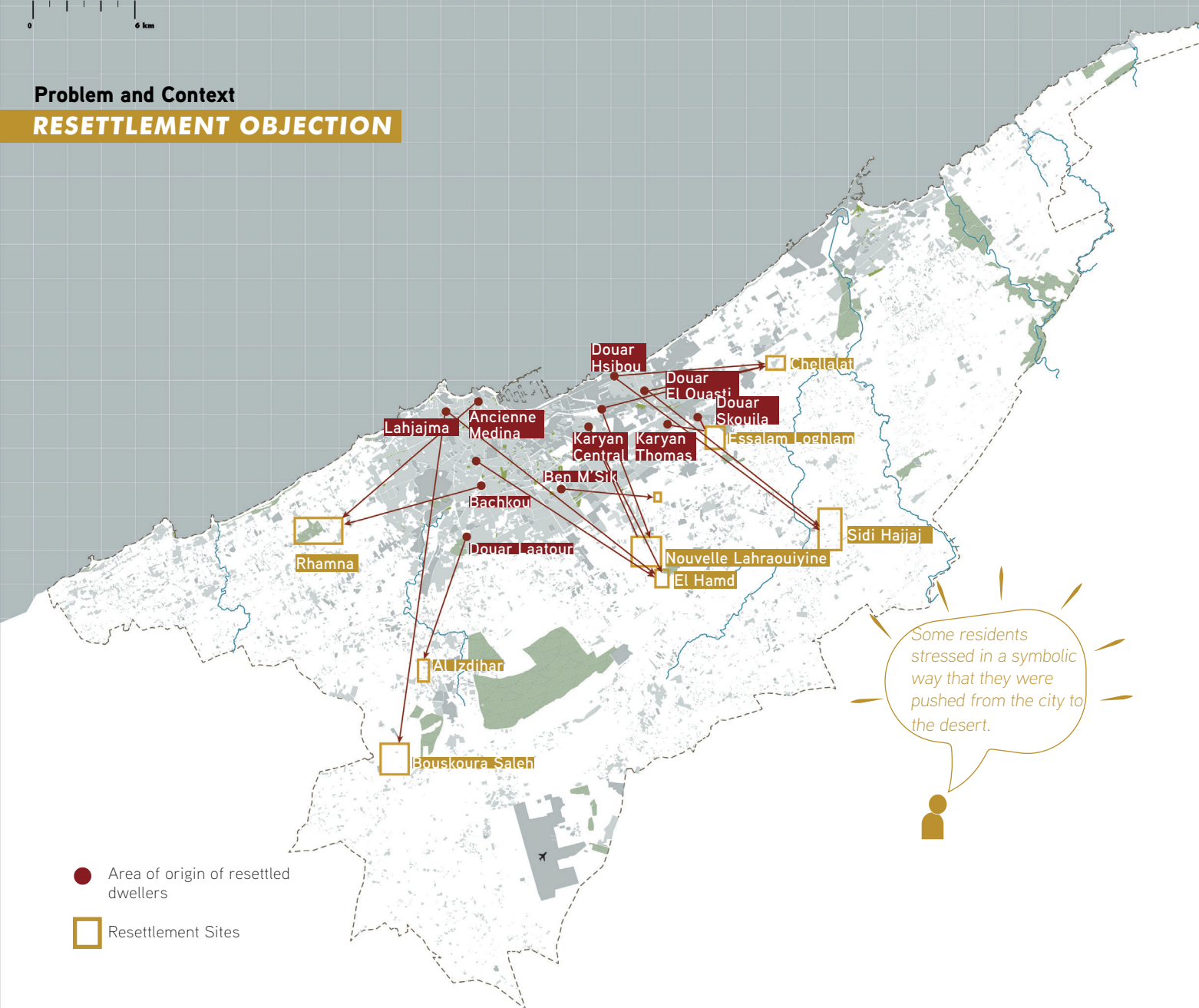
Resettlement causes Urban Sprawl.

ARGUMENT 3

*Resettlement kills the strong
community bonds*

Problem and Context

RESETTLEMENT OBJECTION



ARGUMENT 1

Displacing Poverty does not solve it... it can even worsen it!

ARGUMENT 2

Resettlement causes Urban Sprawl.

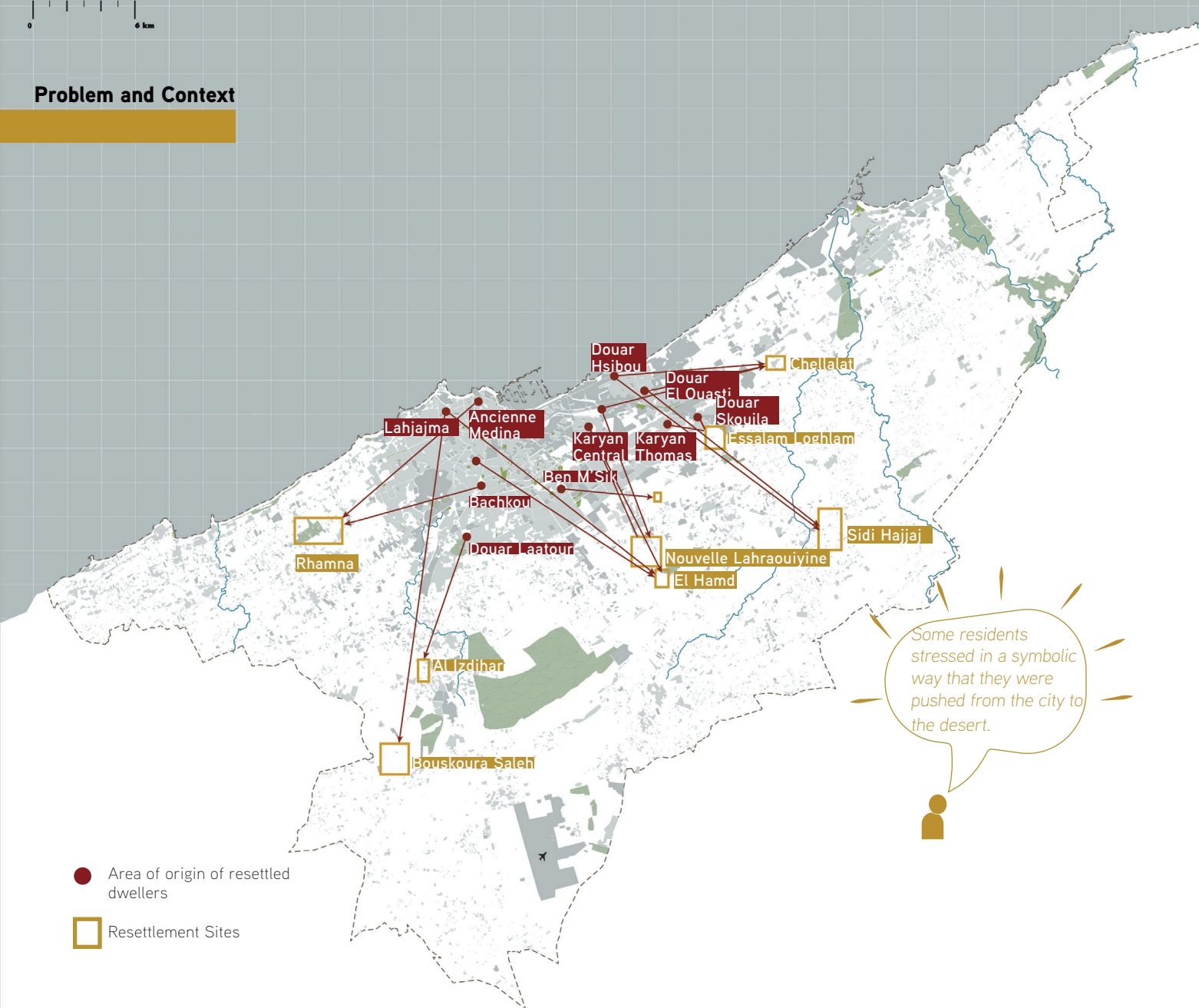
ARGUMENT 3

Resettlement kills the strong community bonds

ARGUMENT 4

Resettlement is expensive for both parties.

Problem and Context



ARGUMENT 1

Displacing Poverty does not solve it... it can even worsen it!

ARGUMENT 2

Resettlement causes Urban Sprawl.

ARGUMENT 3

Resettlement kills the strong community bonds

ARGUMENT 4

Resettlement is expensive for both parties.

ARGUMENT 5

Resettlement is refused by the people who are supposed to benefit from it.

**“If one looks past the open drains and plastic sheets, one will see
that slums are ecosystems buzzing with activity”**

(Sanjeev Sanyal, economist and writer, Slumscapes)



ALTERNATIVE APPROACH: CIRCULAR INITIATIVES



Problem and Context

ALTERNATIVE APPROACH: DERB GHALLEF

e-waste repaire bidonville



Problem and Context

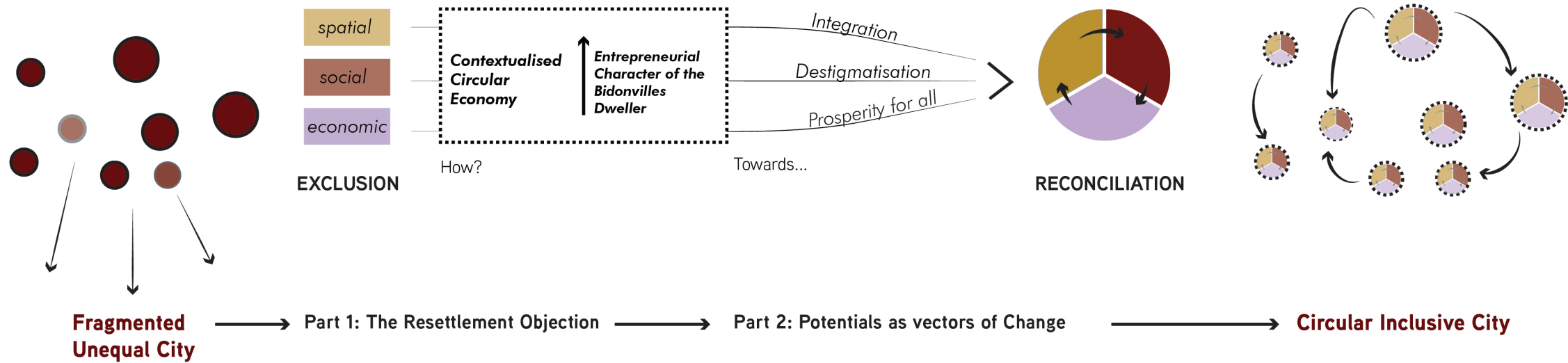
ALTERNATIVE APPROACH: DERB GHALLEF

e-waste repaire bidonville



Elaborate on an alternative development proposal to holistically **integrate** les bidonvilles on **spatial, social** and **economic** levels within Casablanca.

How can the development of a **Contextualised Circular Economy** framework facilitate the **integration** of *les bidonvilles* within Casablanca and push towards an **inclusive** development?





1 ANALYSIS

bidonvilles and space

bidonvilles and society

bidonvilles and economy

bidonvilles and space

Green Accessibility

Urban Mobility

Nuisances

bidonvilles and society

Poverty

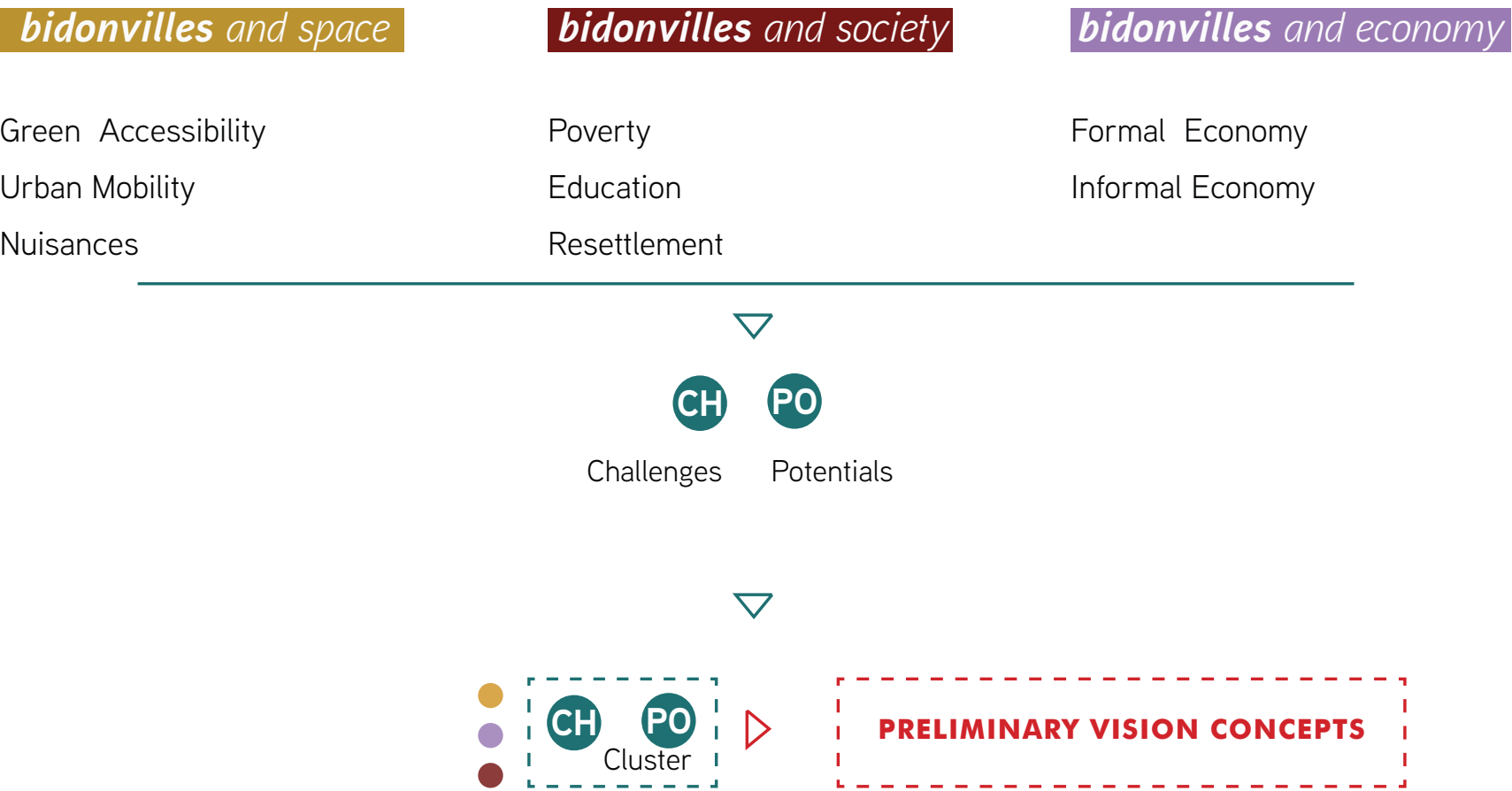
Education

Resettlement

bidonvilles and economy

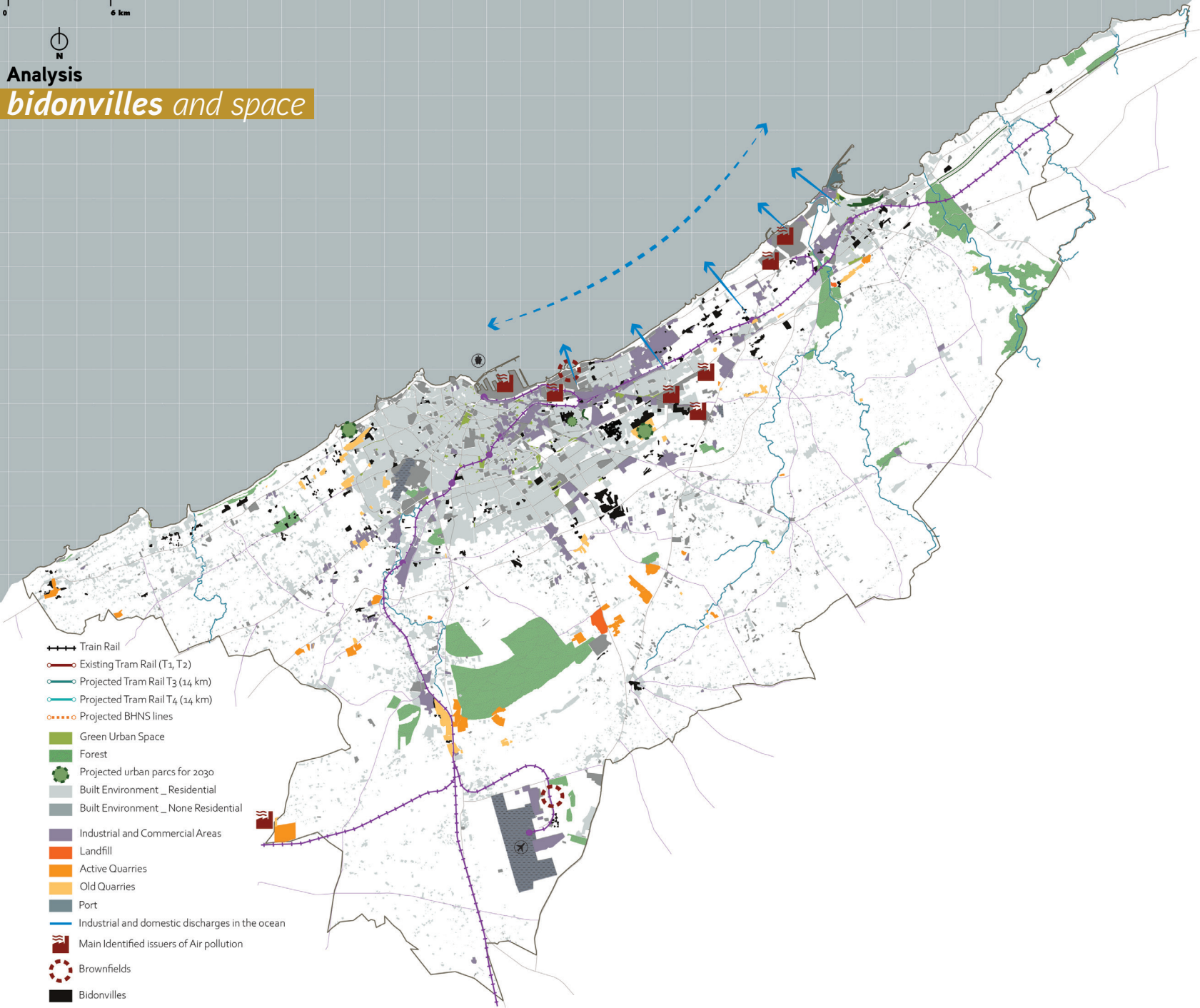
Formal Economy

Informal Economy



Analysis

bidonvilles and space



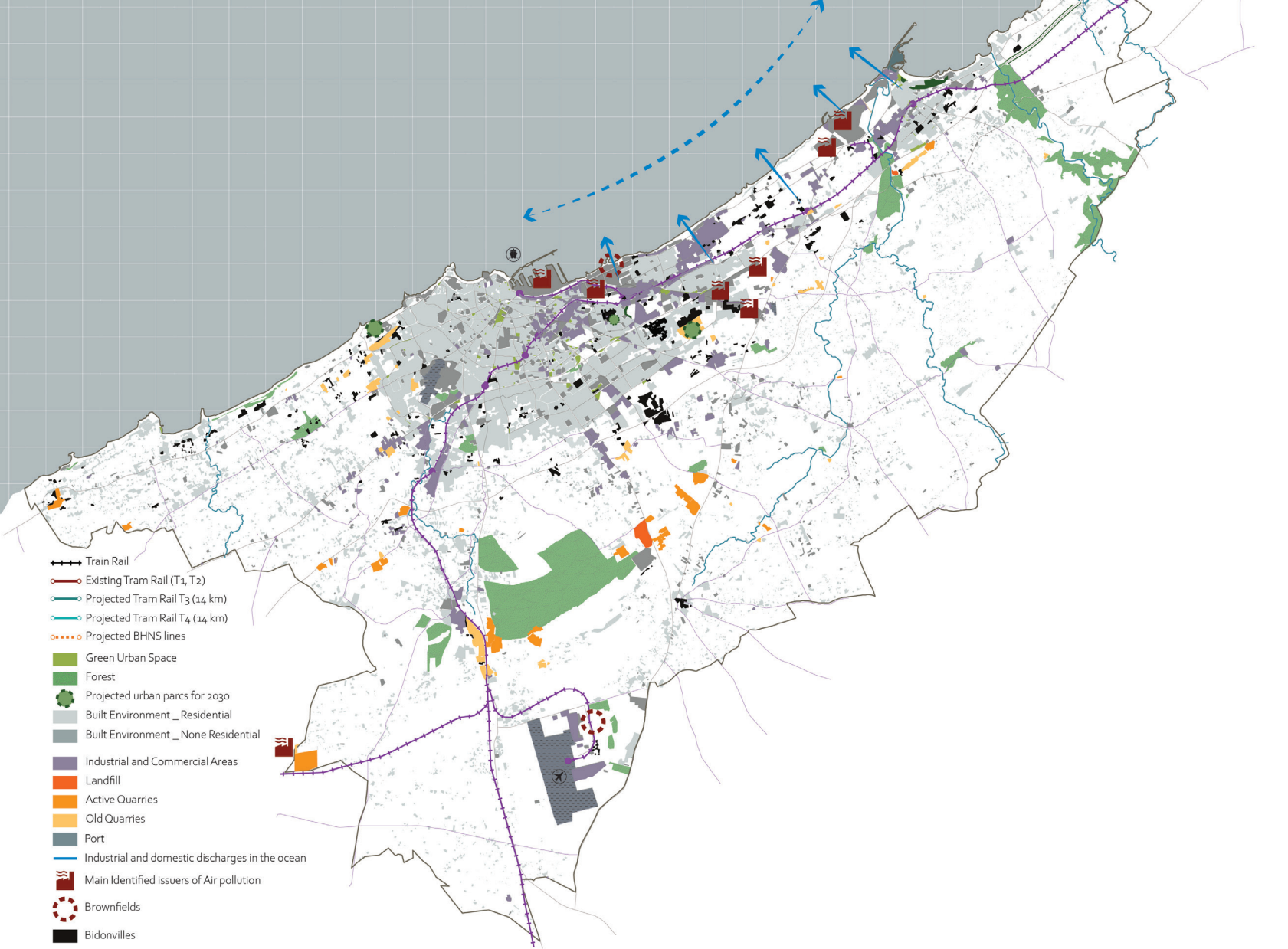
Green Accessibility

Urban Mobility

Nuisances

Analysis

bidonvilles and space



Green Accessibility

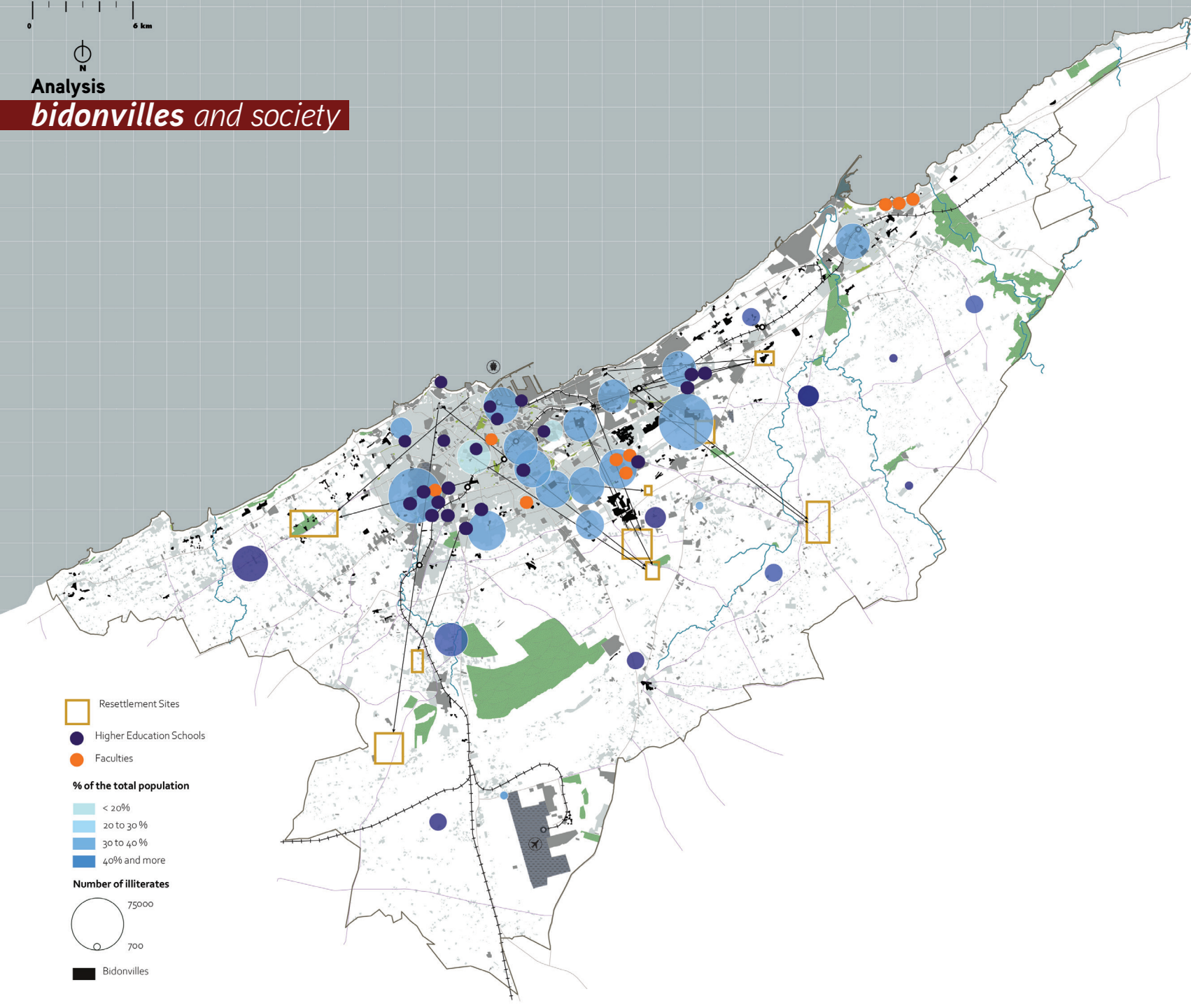
- CH** - Insufficient and unequal access to green.
- CH** - Not a priority for Local Authorities.
- PO** - Linear/Green network development

Urban Mobility

- CH** - Traffic Congestion
- CH** - Lack of light mobility Infrastructure.
- PO** - Walking Culture.

Nuisances

- CH** - Environmental and health hazards.
- CH** - Unequal east-west development.
- PO** - Land re-use. (Wastescape regeneration for resettlement and affordable housing purposes).



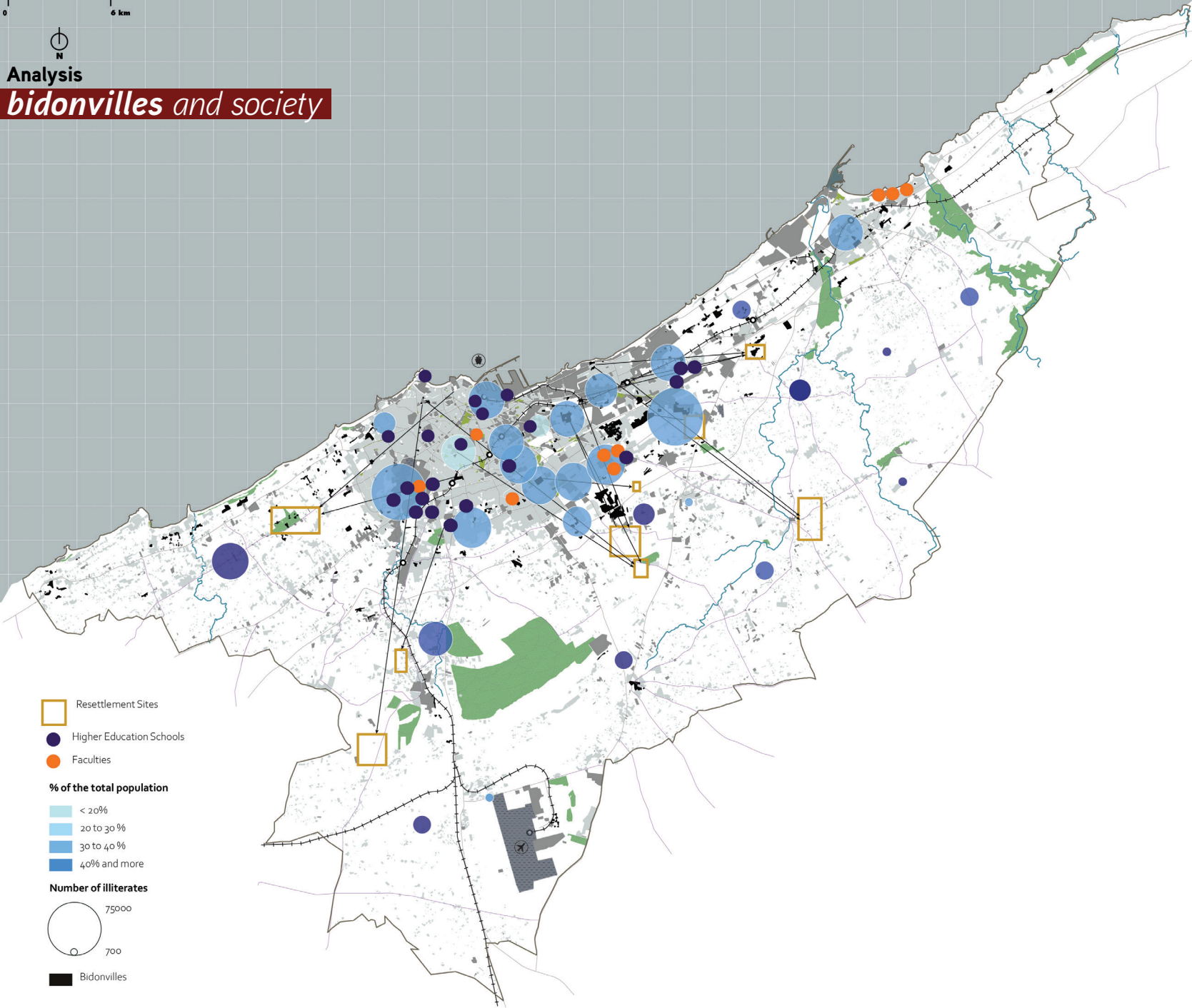
Poverty and Illiteracy

Education

Resettlement

Analysis

bidonvilles and society



Poverty and Illiteracy

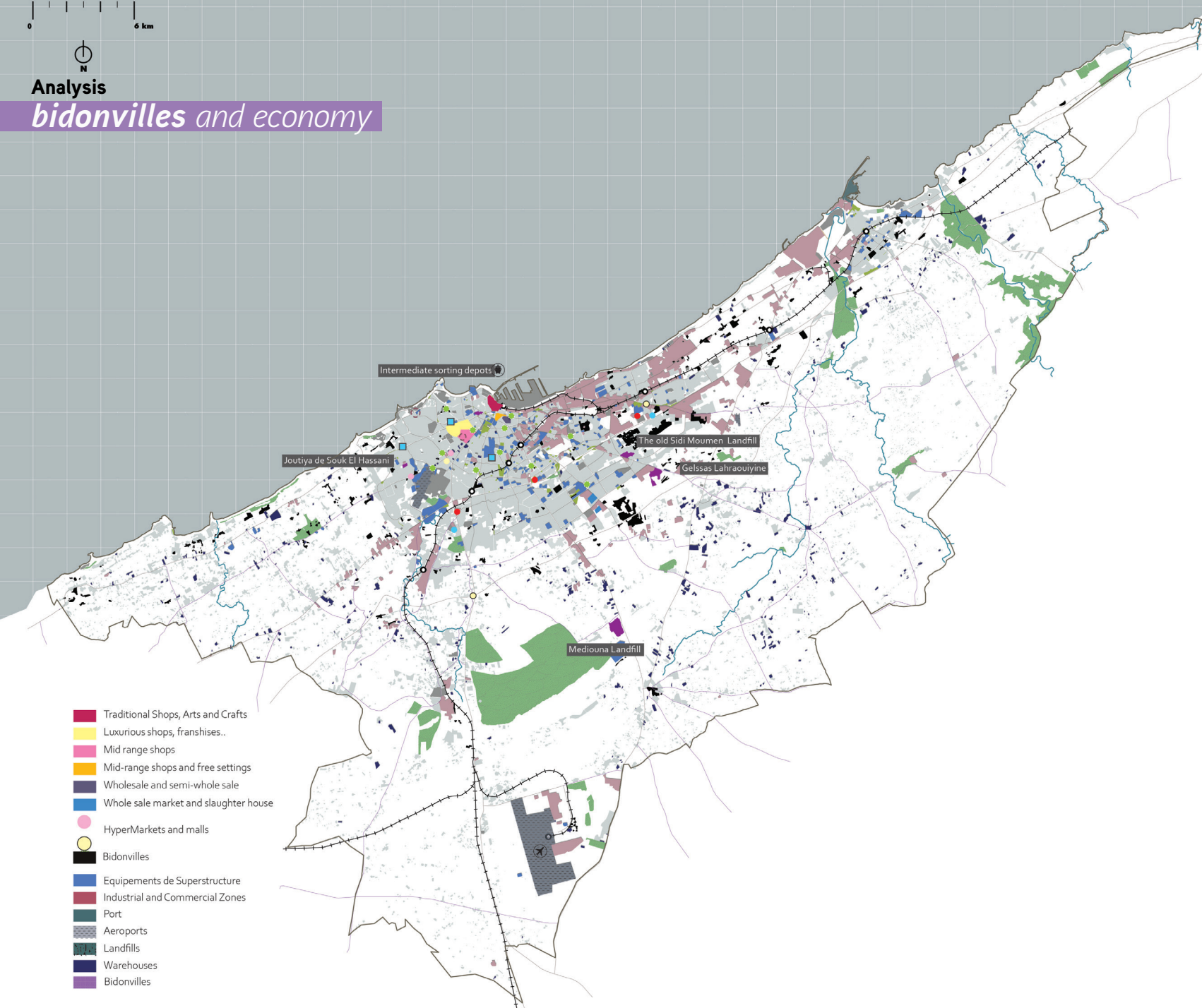
- CH** - Stronger Poverty Rates in the Outskirts of the city.
- PO** - The more the Poverty is concentrated, the less educated are the people. Investing in Education is the ultimate opportunity for poverty Alleviation.

Education

- CH** - Weak integrated education system.
- PO** - Presents opportunity of clustering.
- Integrated in the transport system

Resettlement

- CH** - Consuming Agriculture Land
- Urban Sprawl
- Desintegration from the city systems.
- PO** - Possibility of resettlement within the city in the Industrial Wastescapes.

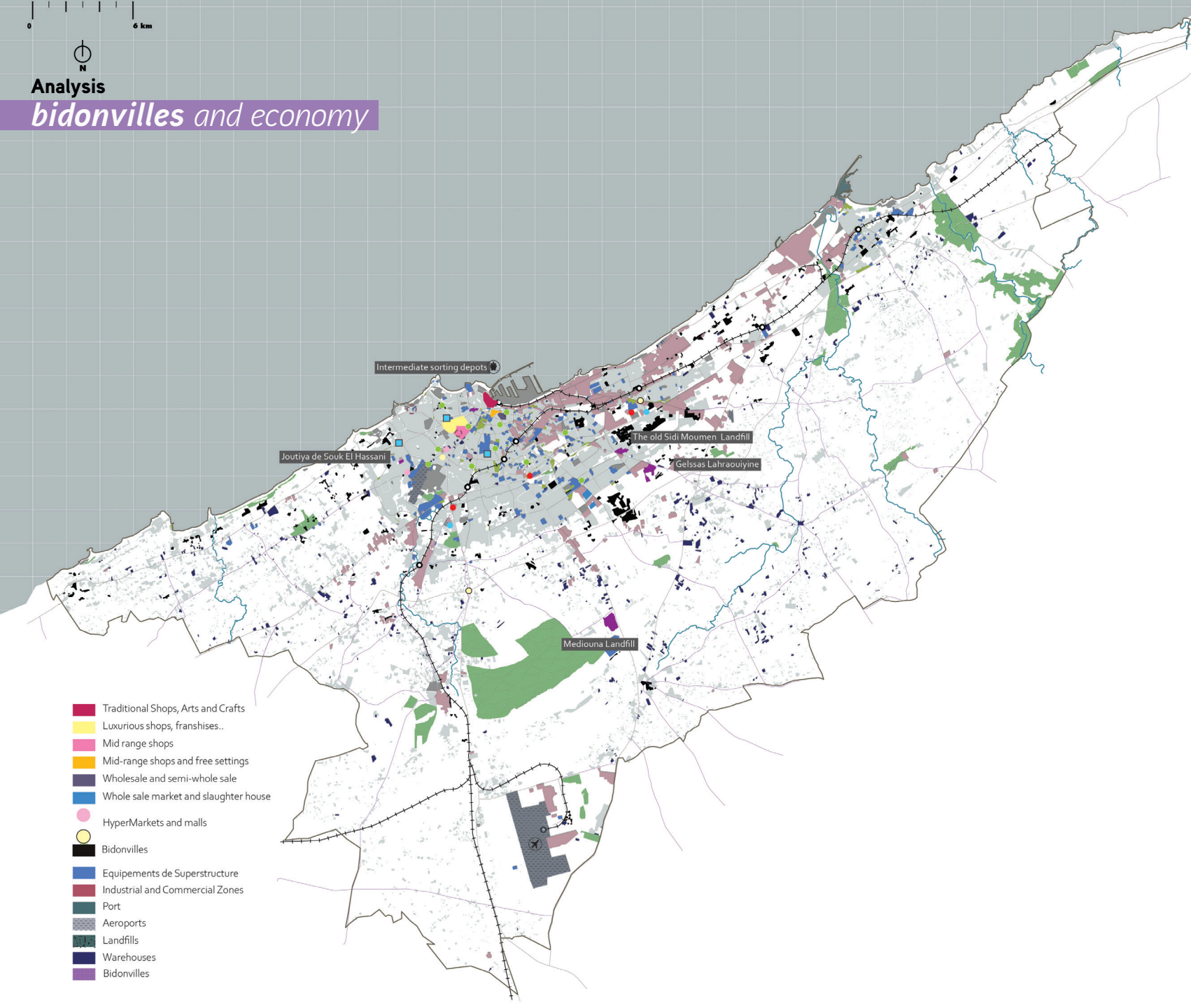


Informal Economy



Bagging of plastic chips after grinding

Source: Pascal Garret, janvier 2015



Informal vs Formal Economy

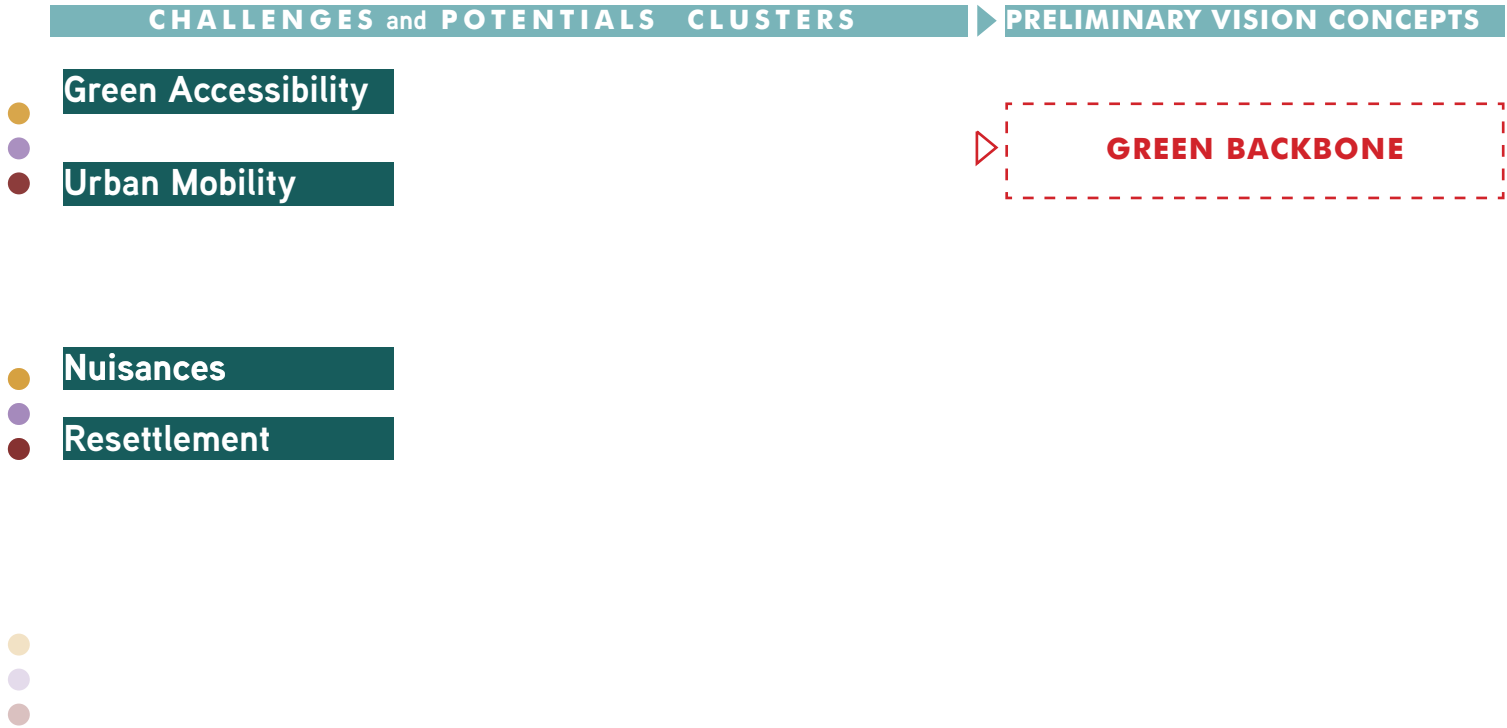


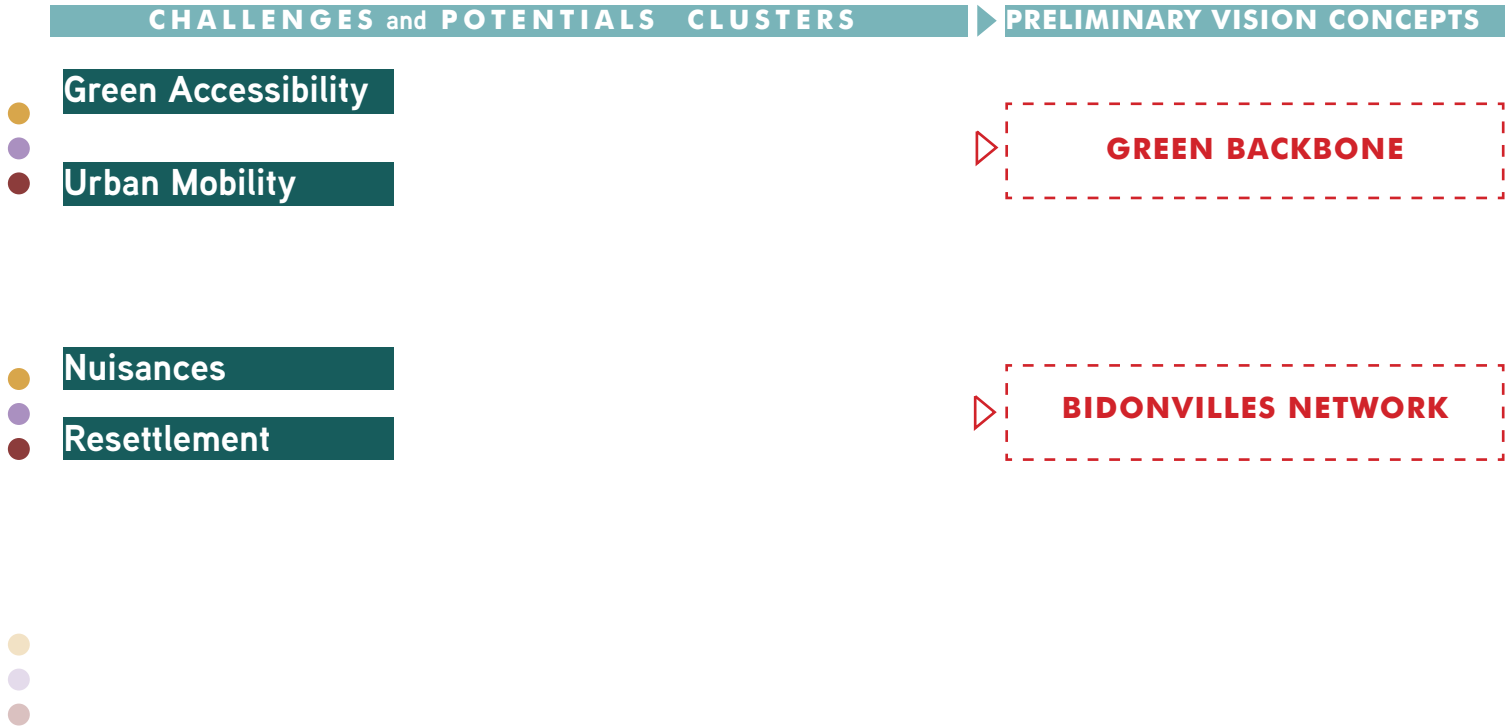
Ferracha de Casablanca.

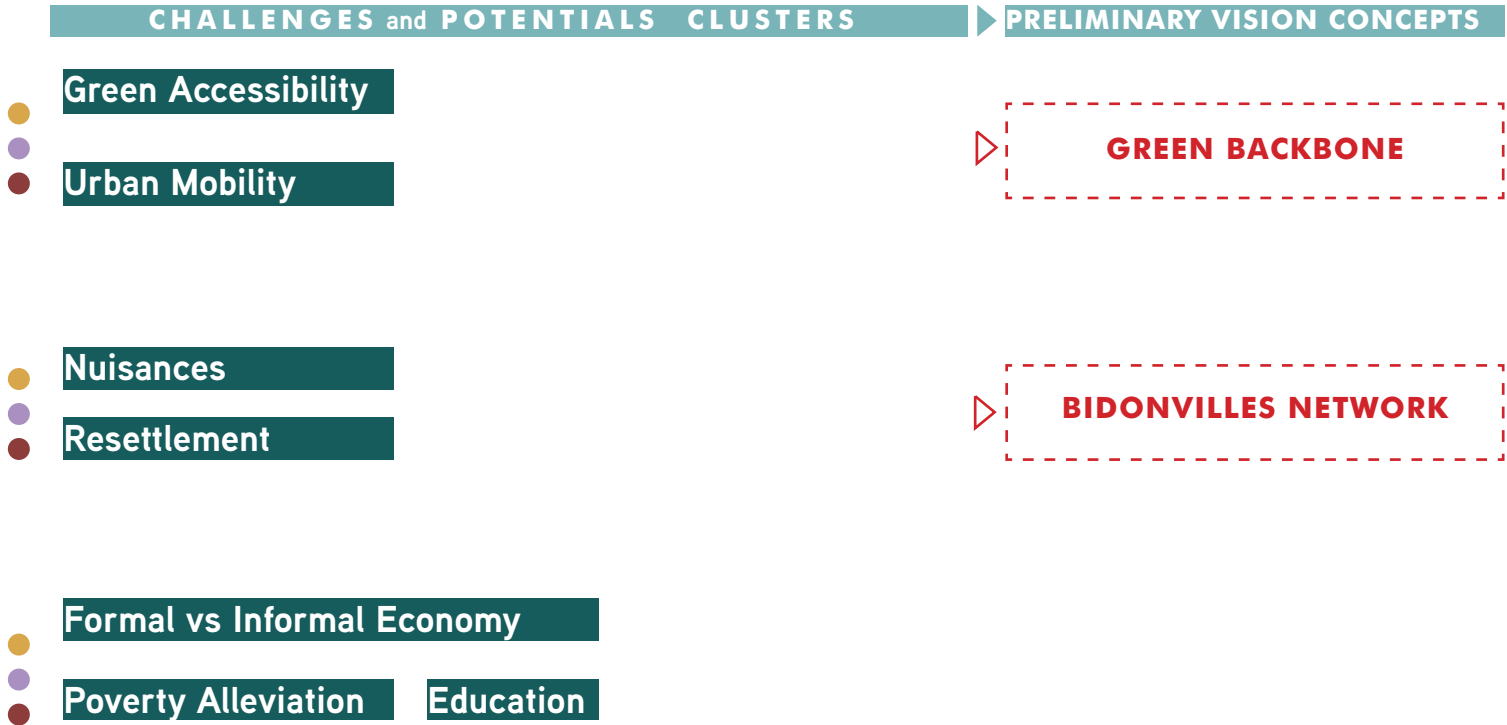
Source: Le 360, janvier 2018

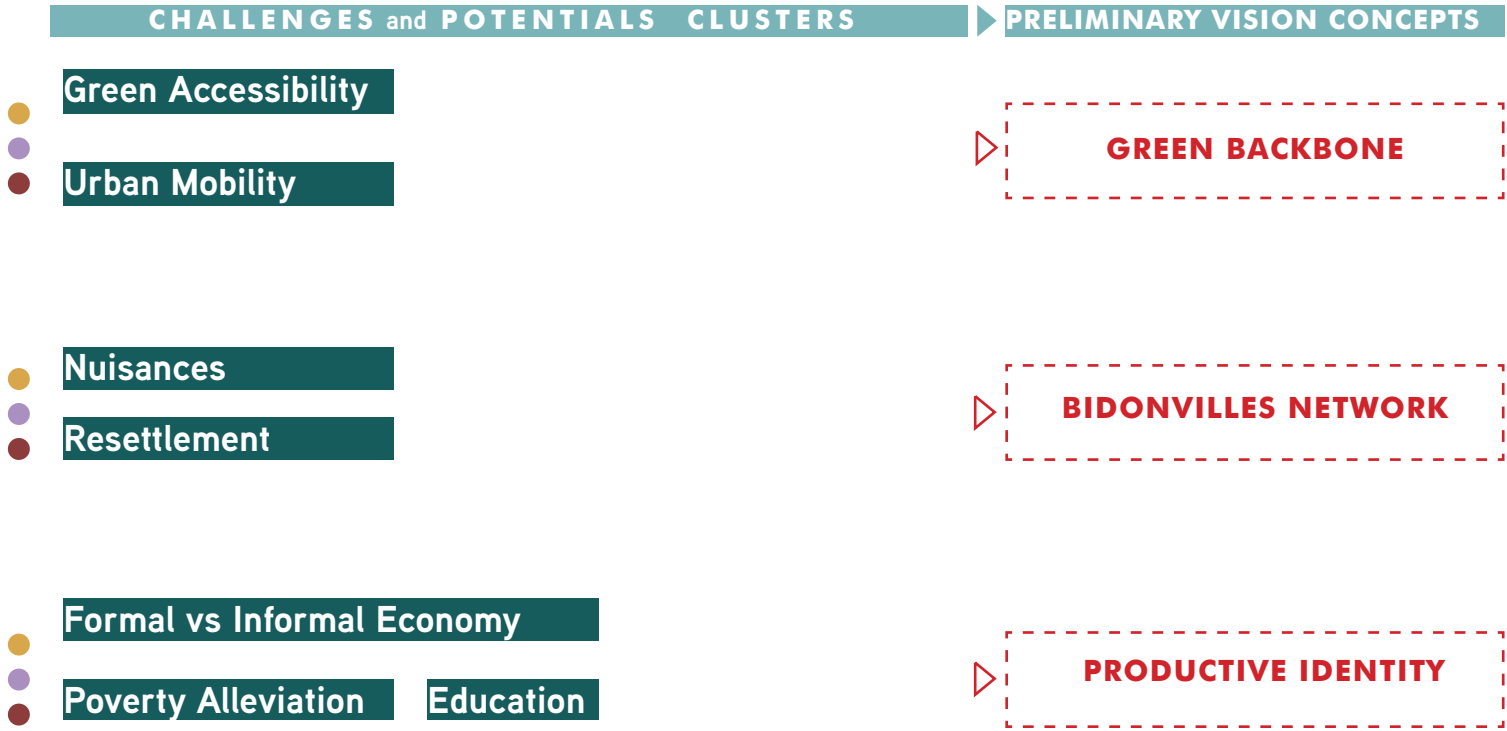
CHALLENGES and POTENTIALS x space		CHALLENGES and POTENTIALS x society		CHALLENGES and POTENTIALS x economy	
- Insufficient and unequal access to green. - Not a priority for Local Authorities.	- Opportunity for a Linear/Green network development	- Stronger Poverty Rates in the Outskirts of the city.	- The stronger is the Poverty, the less educated are the people. Investing in Education is the ultimate opportunity for poverty Alleviation.	- Undervalued basic services - Formal/Informal Conflict	- Informal Productive Identity - Basic services are provided only within the city fabric.
- Traffic Congestion - Lack of light mobility Infrastructure.	- Existing Walking Culture.	- Weak integrated education system.	- Existing Walking Culture.		
-Environmental and health hazards.	- Land re-use. (<i>Wastescape regeneration for resettlementent and affordable housing purposes</i>).	- Consuming Agriculture Land - Urban Sprawl - Desintegration from the city systems.	- Opportunity of resettlement withing the city in the Industrial zones.		

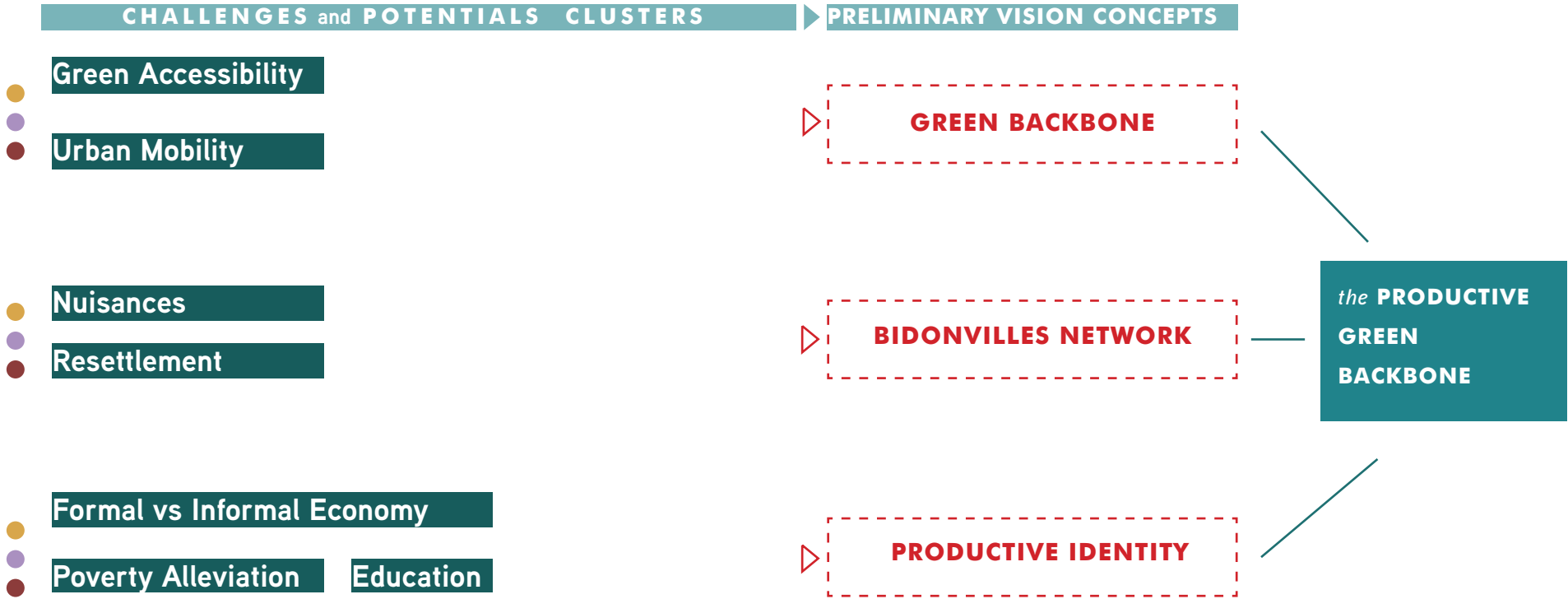








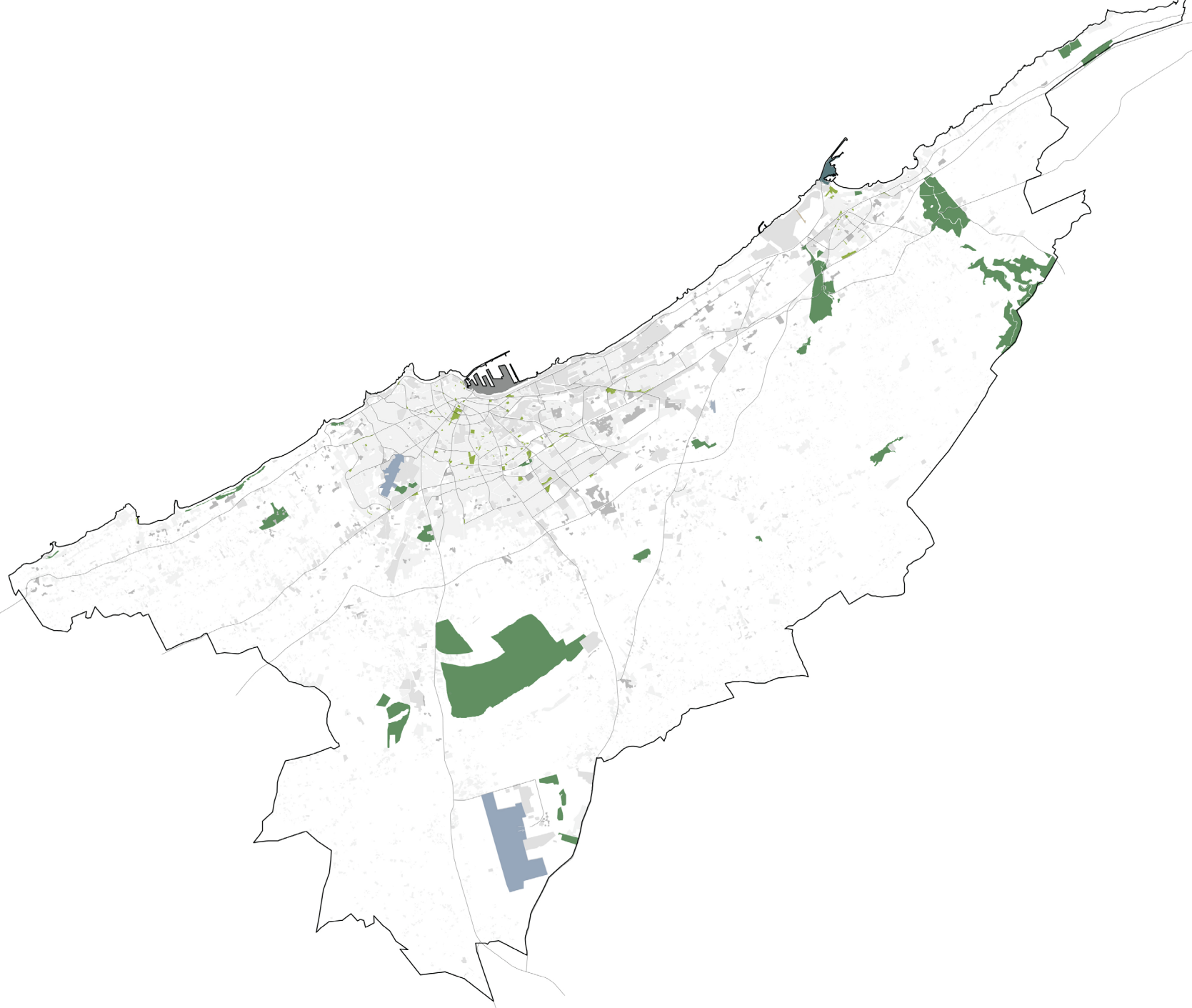


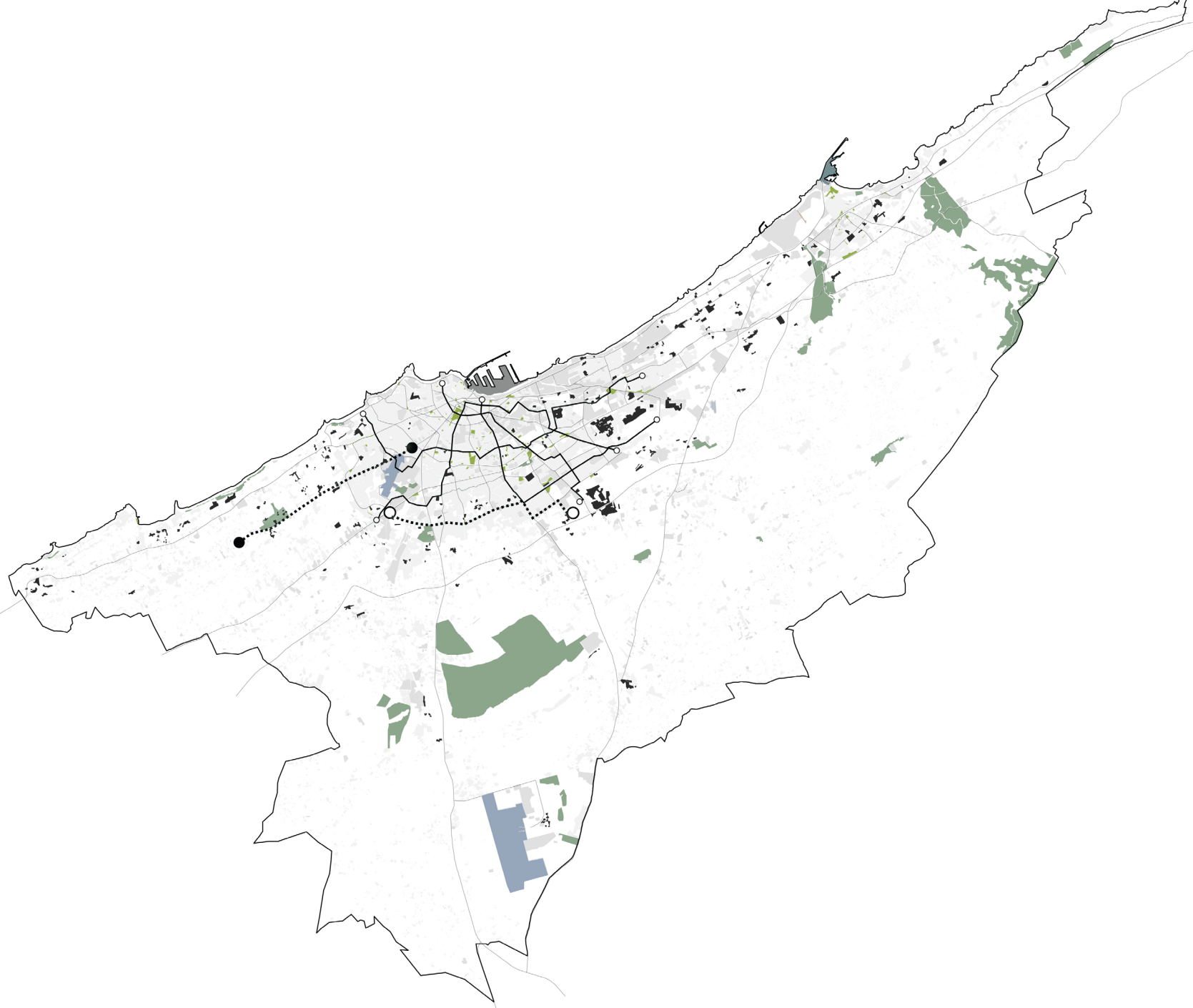




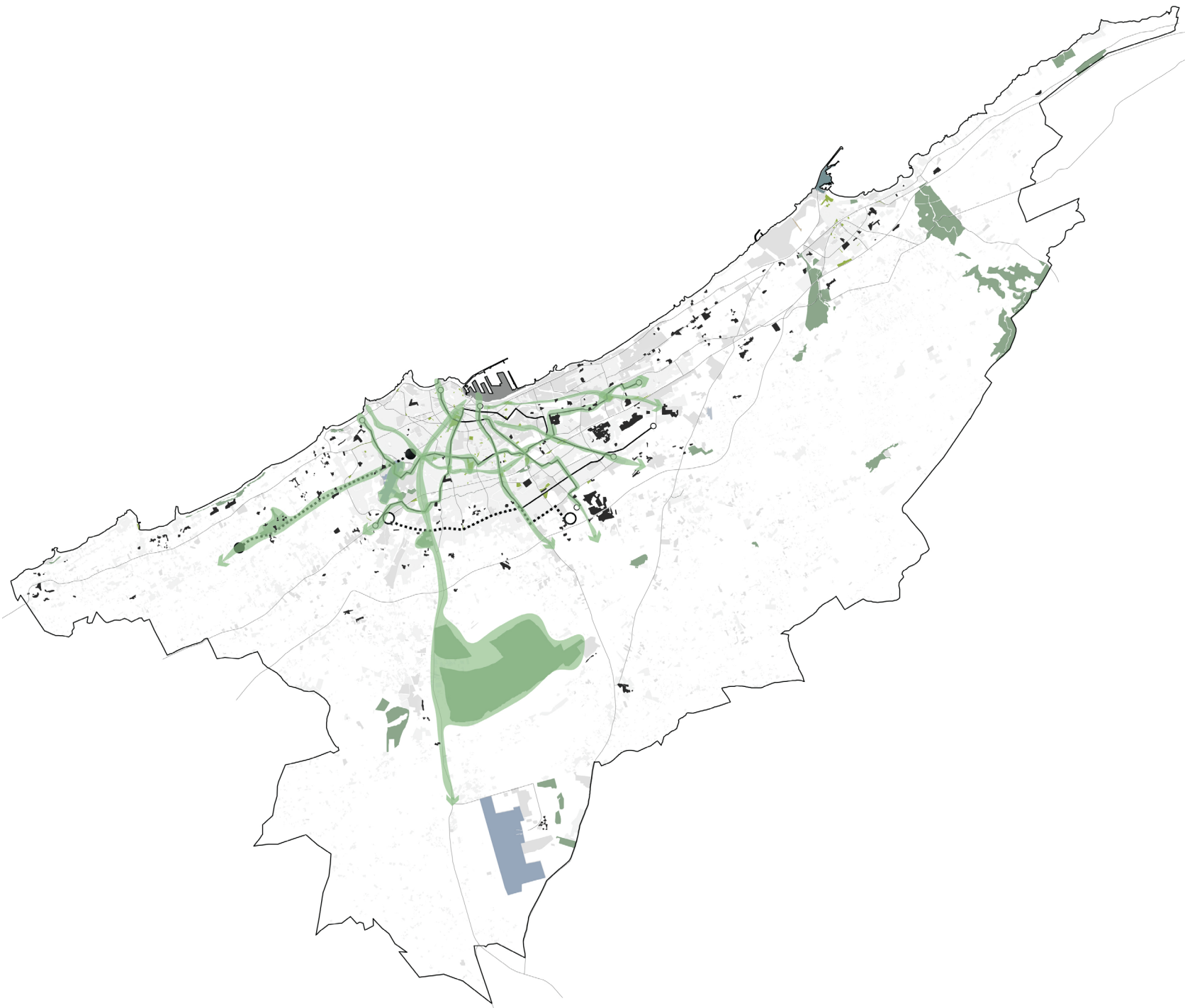
2

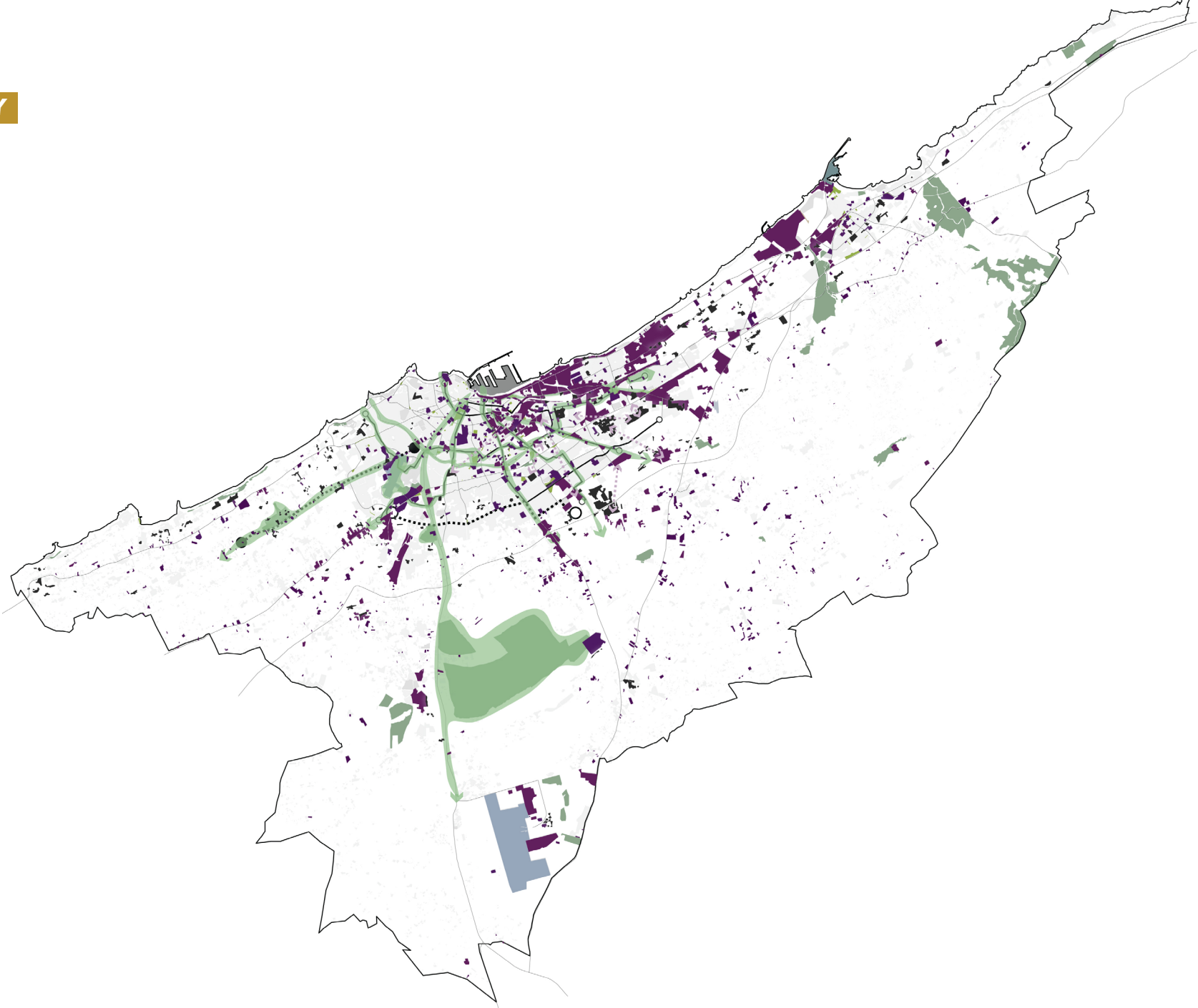
VISION

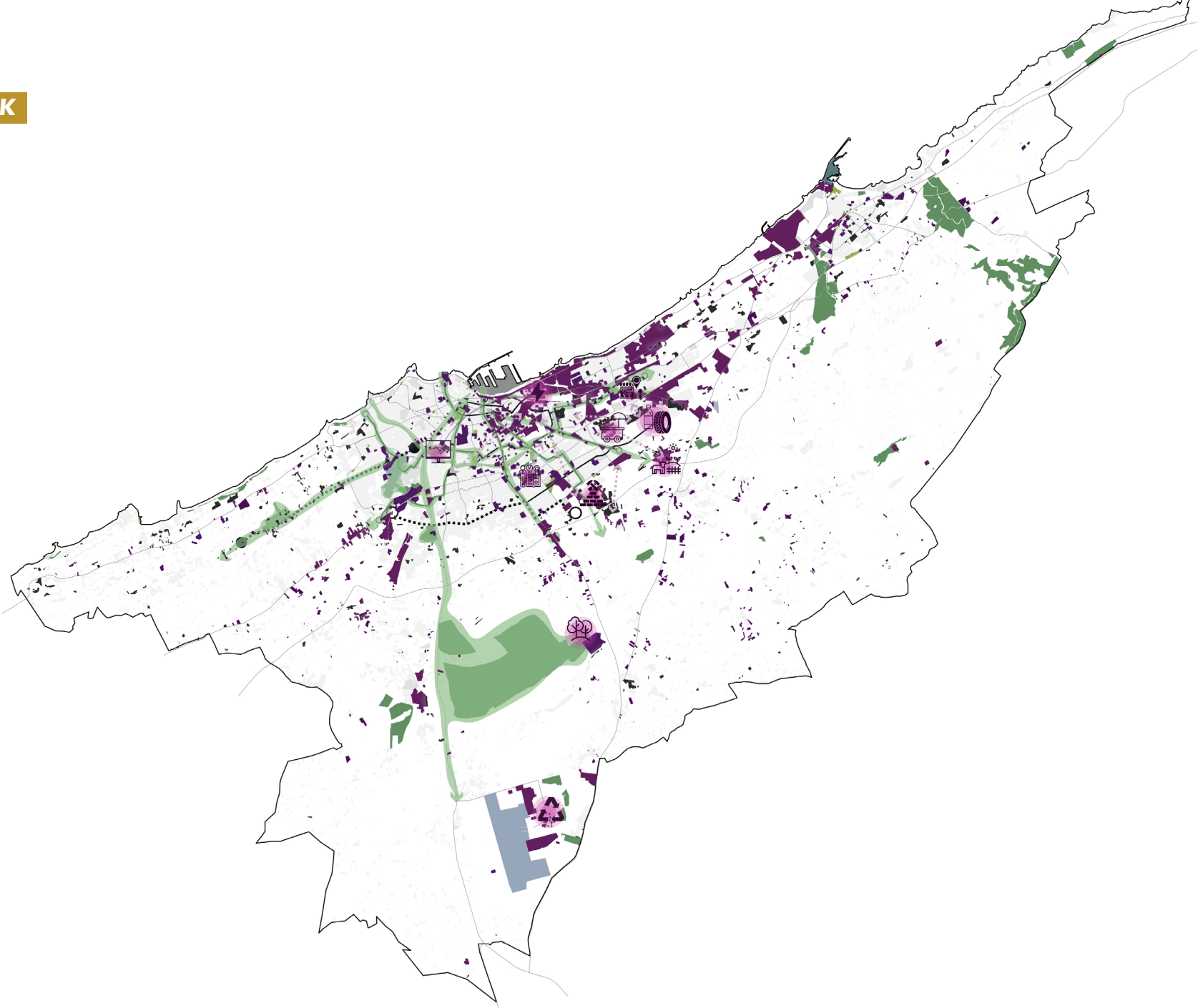




Vision
GREEN BACKBONE













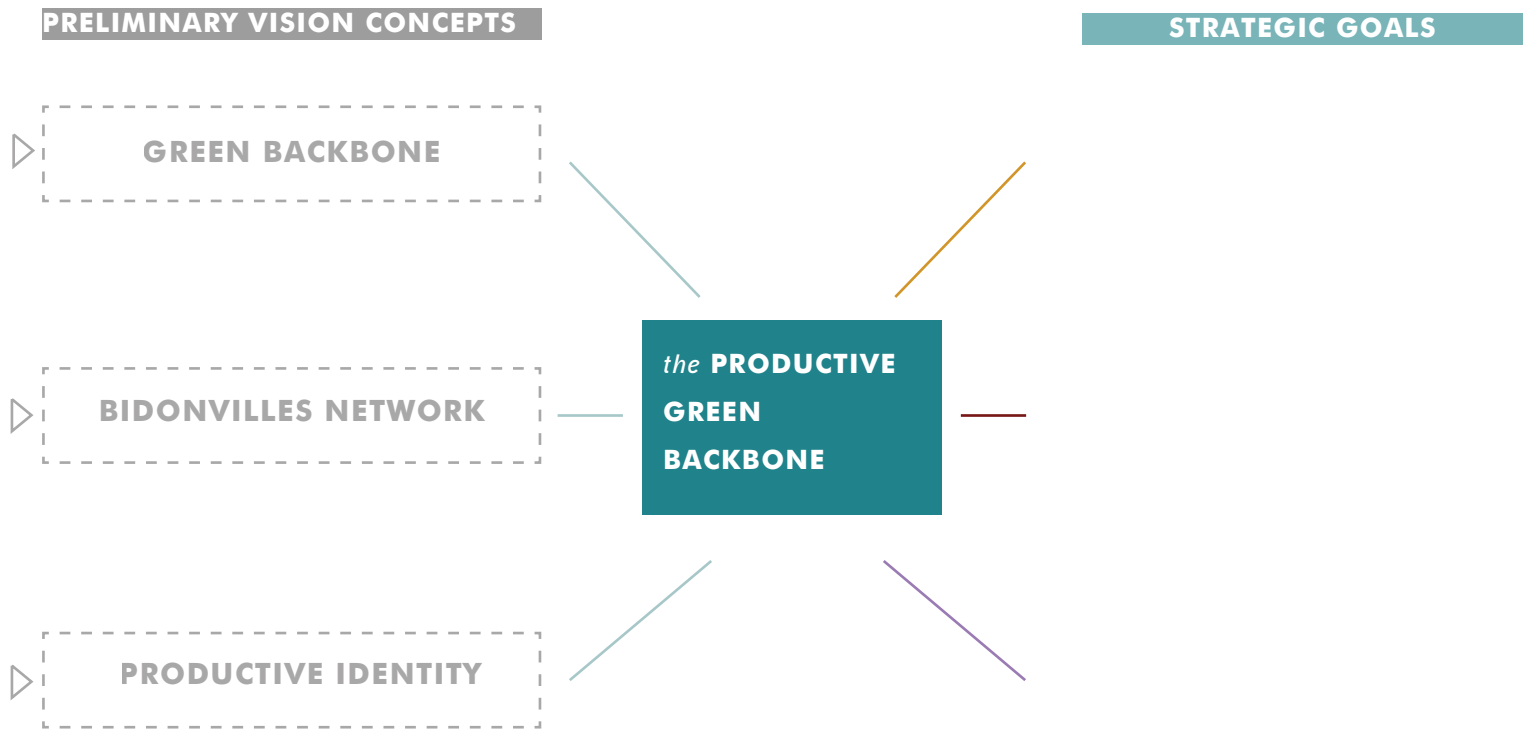
In 2050, Casablanca will have a new perception towards its bidonvilles:

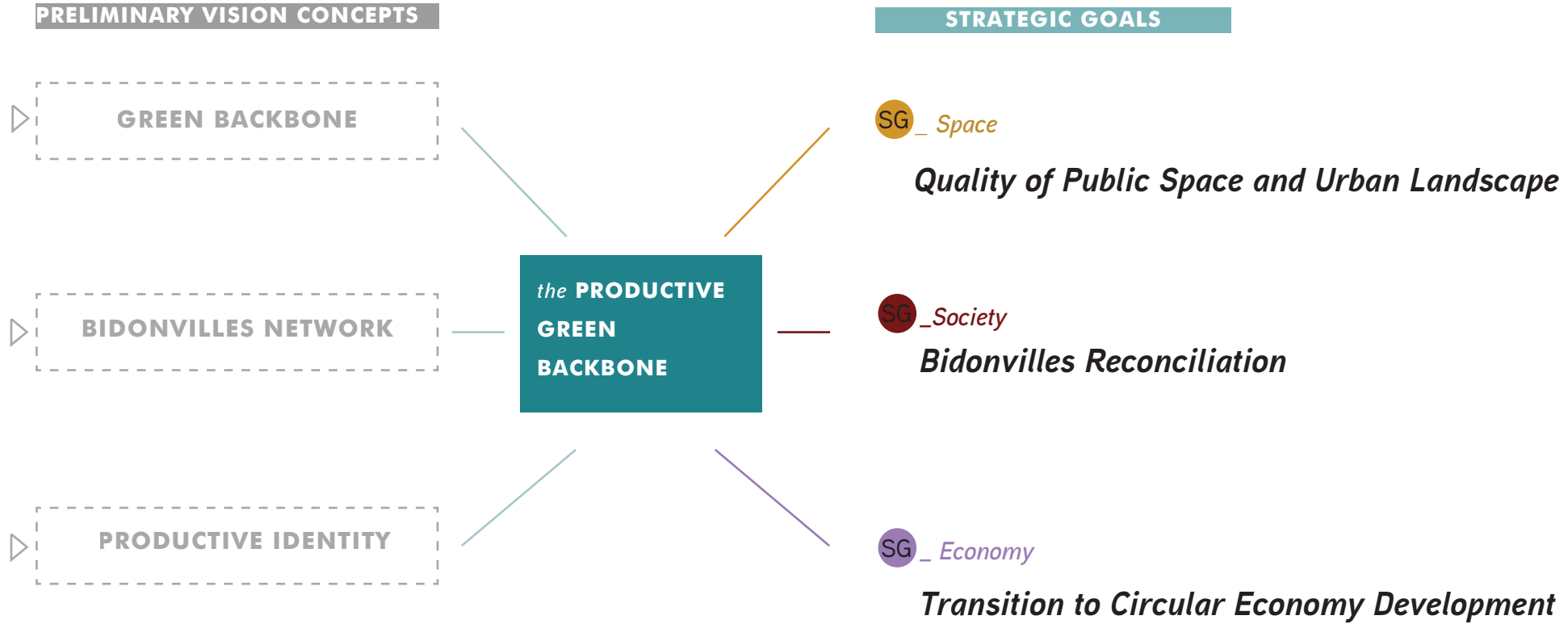
A Reconciliation aiming towards an inclusive development where the bidonvilles are benefiting and contributing to the **Productive Green Backbone** agenda.

The background is a teal-tinted photograph of a wooden structure. It features several vertical wooden planks on the left and a diagonal wooden beam crossing the frame from the upper left towards the lower right. The wood appears weathered and aged. The overall lighting is somewhat dim, with shadows cast across the surfaces.

3

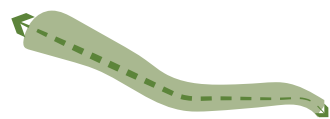
IMPLEMENTATION STRATEGIES



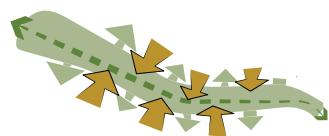


the **PRODUCTIVE
GREEN
BACKBONE**

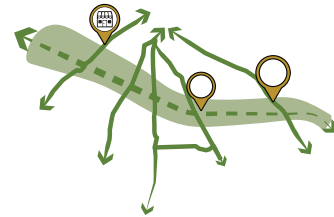
Phase 1_CONNECT



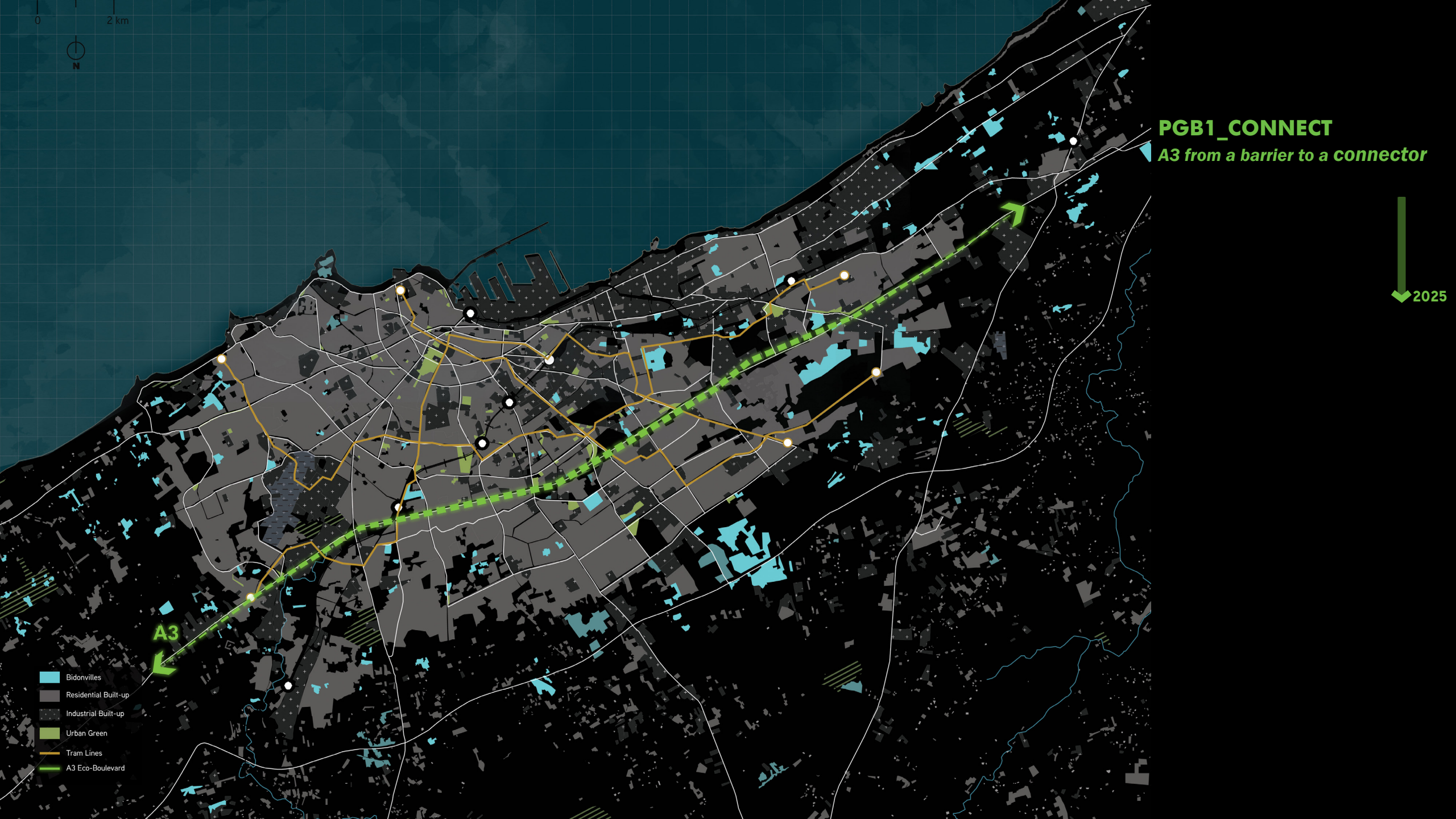
Phase 2_ATTRACT

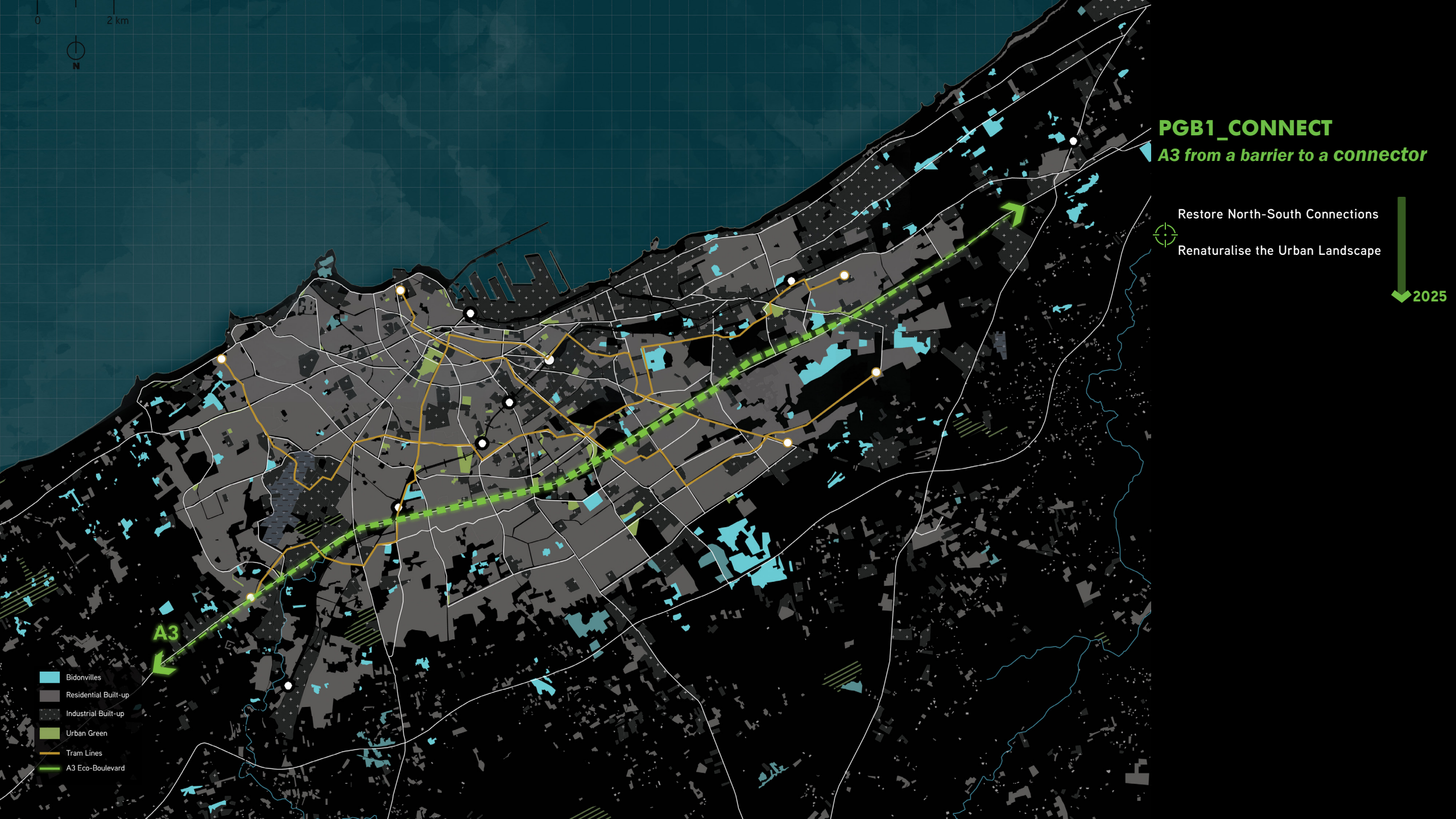


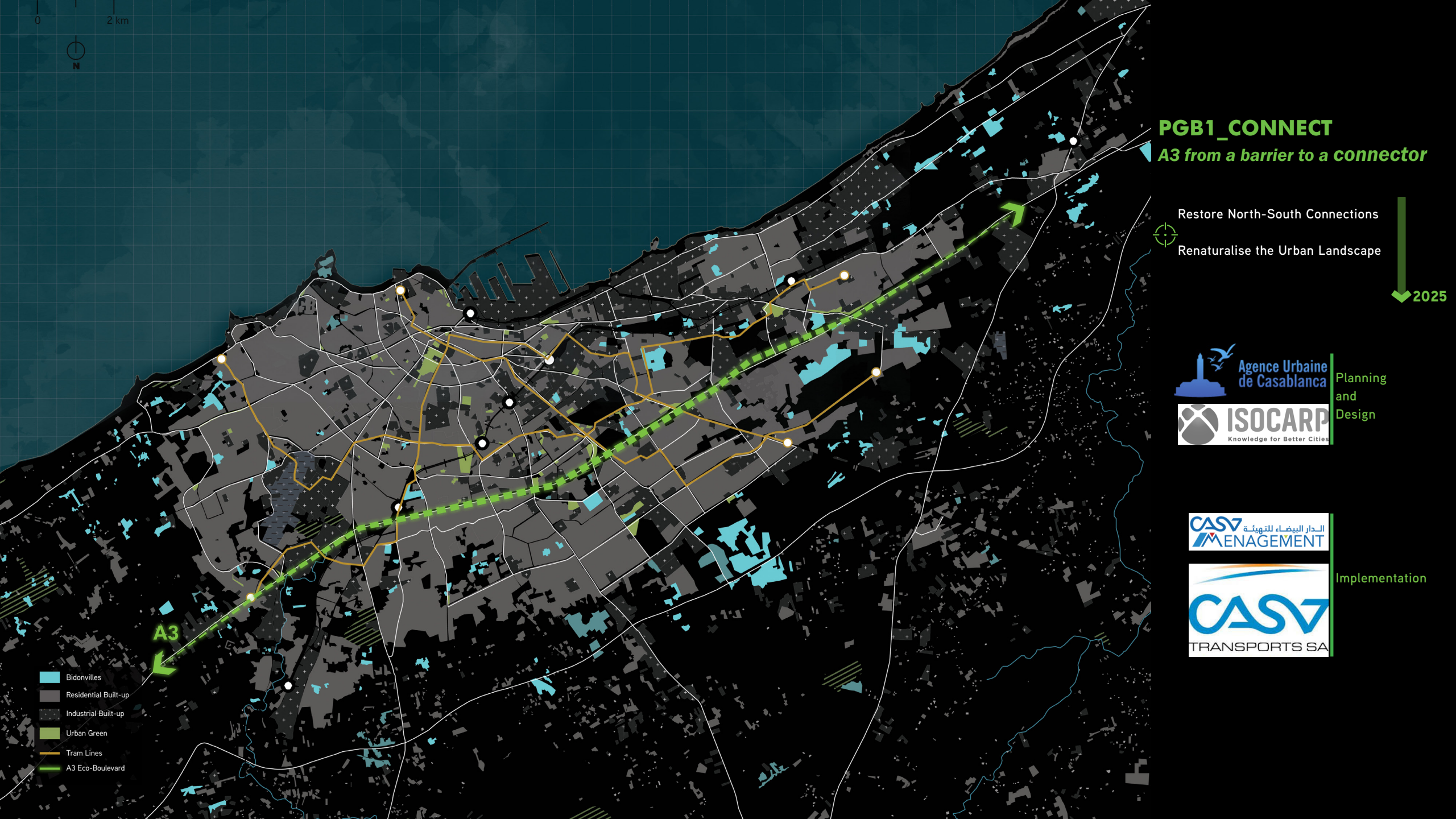
Phase 3_CREATE



Phase 4_EXPAND?







- Bidonvilles
- Residential Built-up
- Industrial Built-up
- Urban Green
- Tram Lines
- A3 Eco-Boulevard

PGB1_CONNECT

A3 from a barrier to a connector

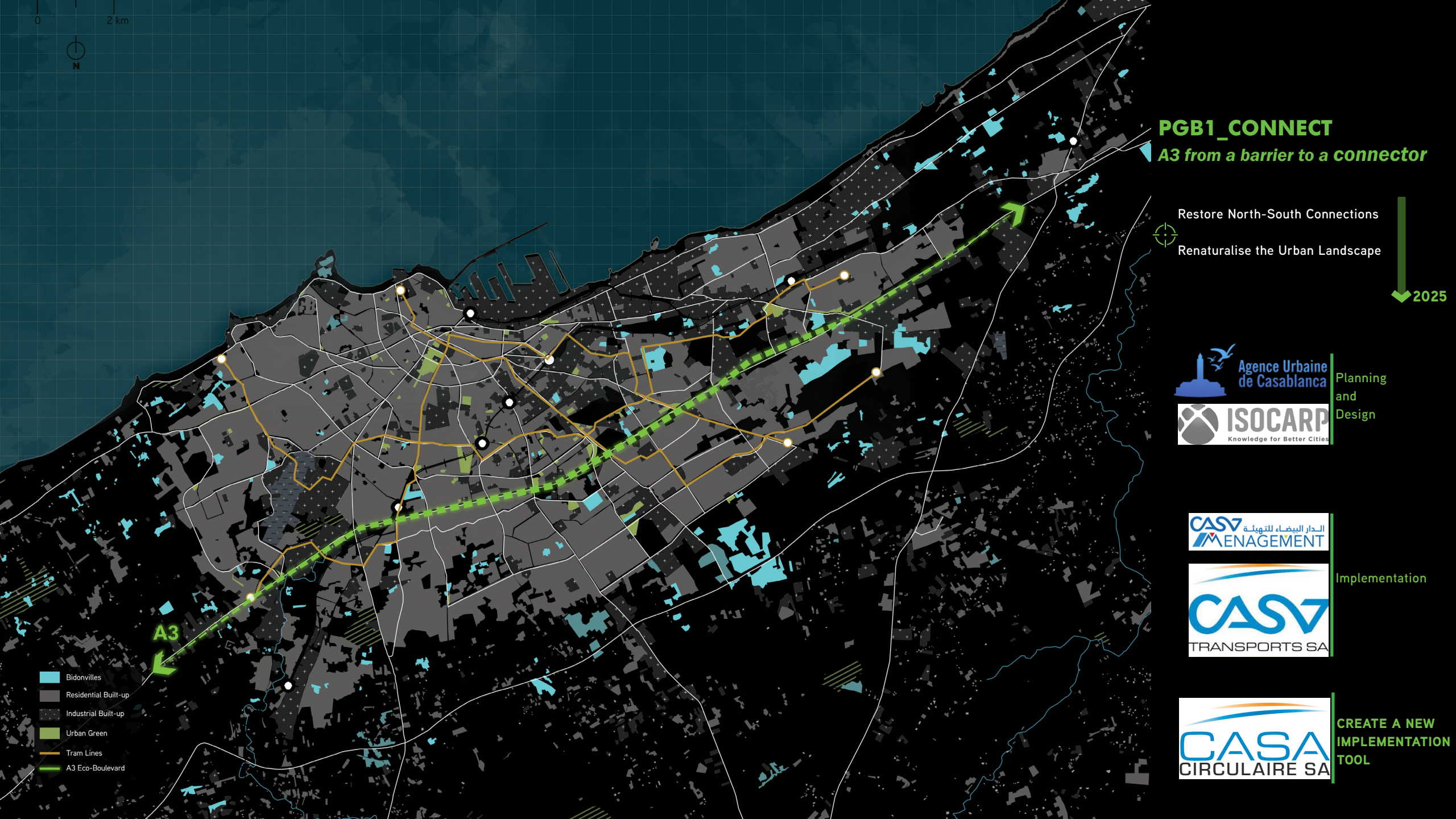
- Restore North-South Connections
- Renaturalise the Urban Landscape



Planning and Design



Implementation



- Bidonvilles
- Residential Built-up
- Industrial Built-up
- Urban Green
- Tram Lines
- A3 Eco-Boulevard

PGB1_CONNECT

A3 from a barrier to a connector

- Restore North-South Connections
- Renaturalise the Urban Landscape





Agence Urbaine
de Casablanca



ISOCARP
Knowledge for Better Cities

Planning
and
Design



CASV
الدار البيضاء للتهيئة



CASV
TRANSPORTS SA

Implementation



CASA
CIRCULAIRE SA

CREATE A NEW
IMPLEMENTATION
TOOL







Tactical Bike Intervention



Main goal is to provide safer shared streets with minimal interventions. Like stencilling bike lines, putting bike sharing/renting spots along the boulevard and use tire cranes as line barriers. The purpose is to start small and engage more population in the public debate on soft mobility. This may help putting more pressure on Transport authorities to invest in biking infrastructure.

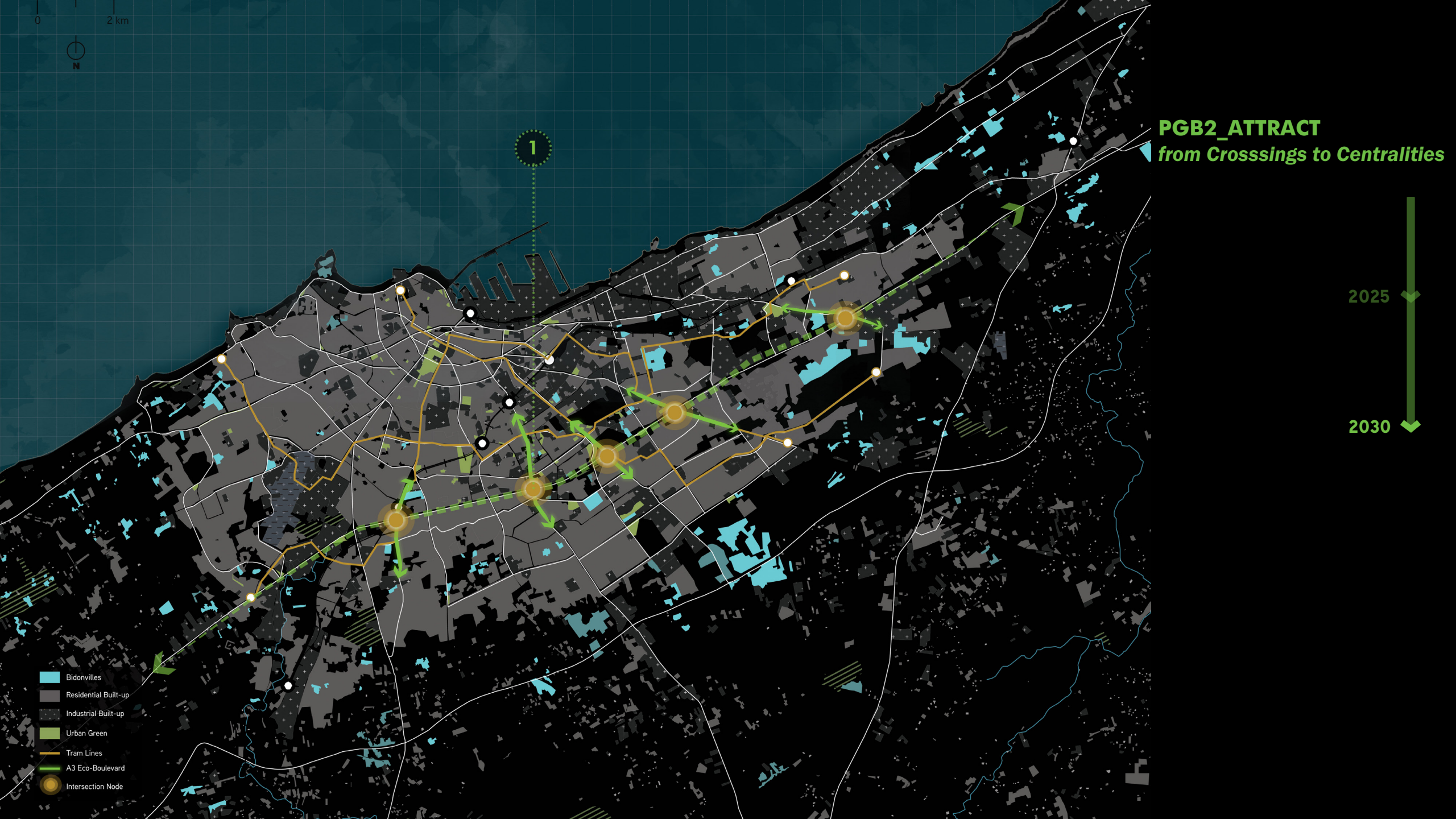


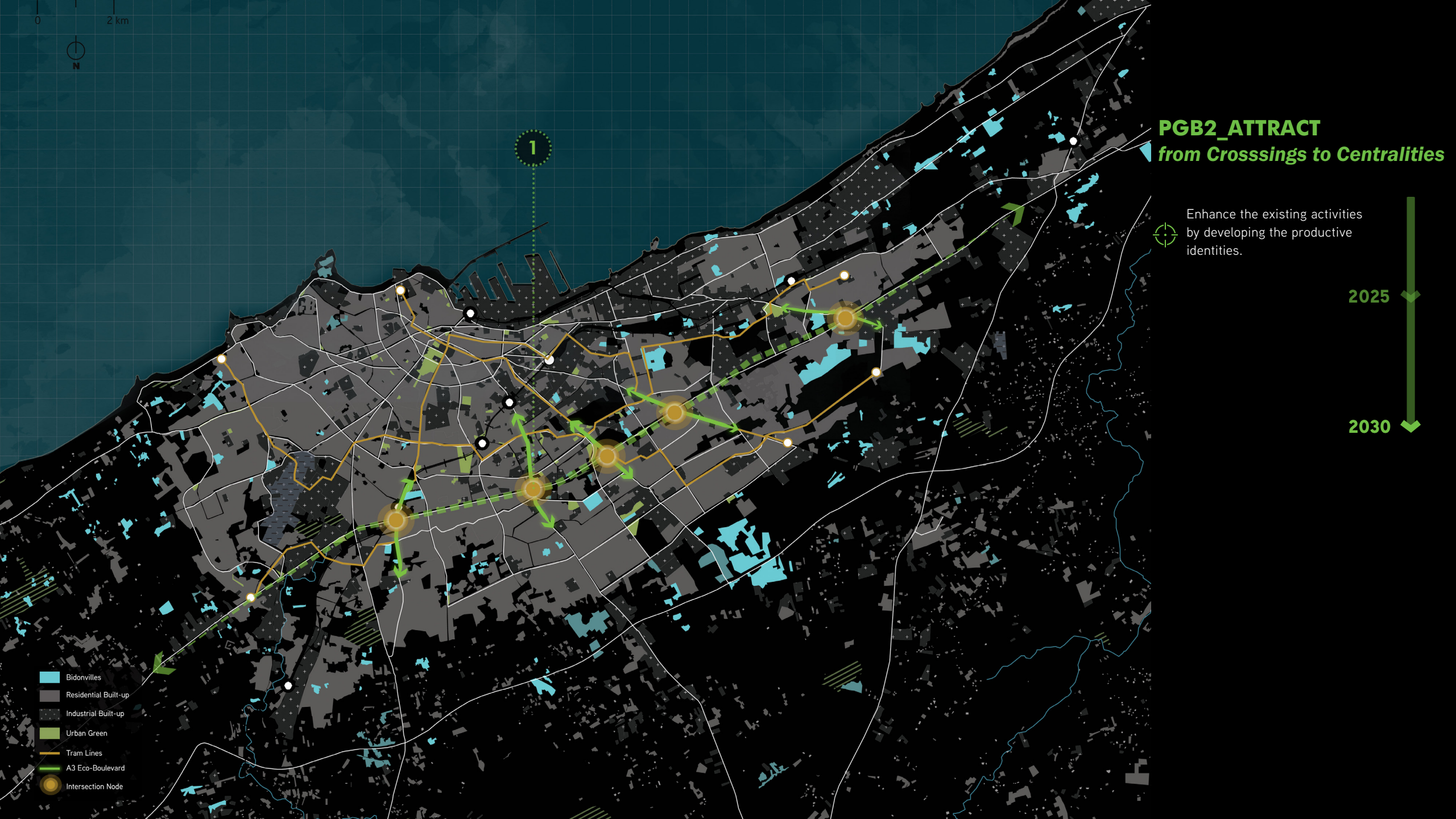


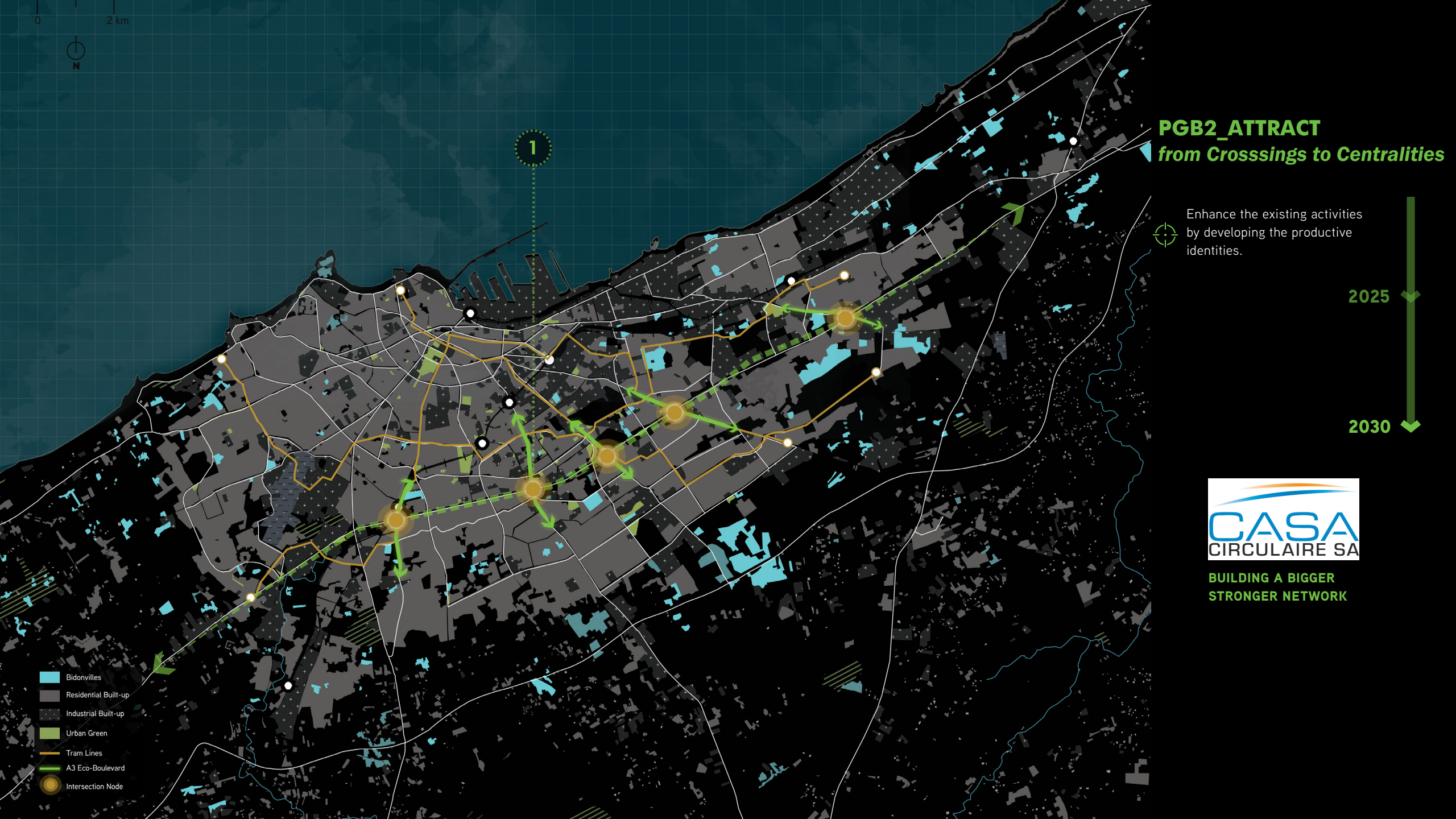
POLICY FOCUS:

Regulation of the implementation of the MultiModal EcoBoulevard

- Safe Mobility
- Unused derelict Open Plots for urban transformation purposes







- Bidonvilles
- Residential Built-up
- Industrial Built-up
- Urban Green
- Tram Lines
- A3 Eco-Boulevard
- Intersection Node

PGB2_ATTRACT

from Crossings to Centralities

Enhance the existing activities by developing the productive identities.

2025

2030



BUILDING A BIGGER
STRONGER NETWORK





Education

- Introducing circular activities in school that could also benefit the PGB like School Gardening.
- Circular Accessibility of school amenities in order to keep the areas active outside school hours. (Improving Safety through the ecoboulevard)



Vacant Spaces

- Empowering temporary users to activate empty space with activities that are in synergy with the adjacent neighborhoods and in the meantime with the PGB agenda.



Invest in Green Revitalisation

- Activating and integrating this existing derelict park in the PGB.
- Introducing new qualities (Benches, Lights, walking routes...) in order to revive the abandoned green spaces and boost their reuse.



Tactical Bike Intervention

- Main goal is to provide safer shared streets with minimal interventions. Like stencilling bike lines, putting bike sharing/renting spots along the boulevard and use tire cranes as line barriers. The purpose is to start small and engage more population in the public debate on soft mobility. This may help putting more pressure on Transport authorities to invest in biking infrastructure.

Implementation Strategies
ZOOM 1

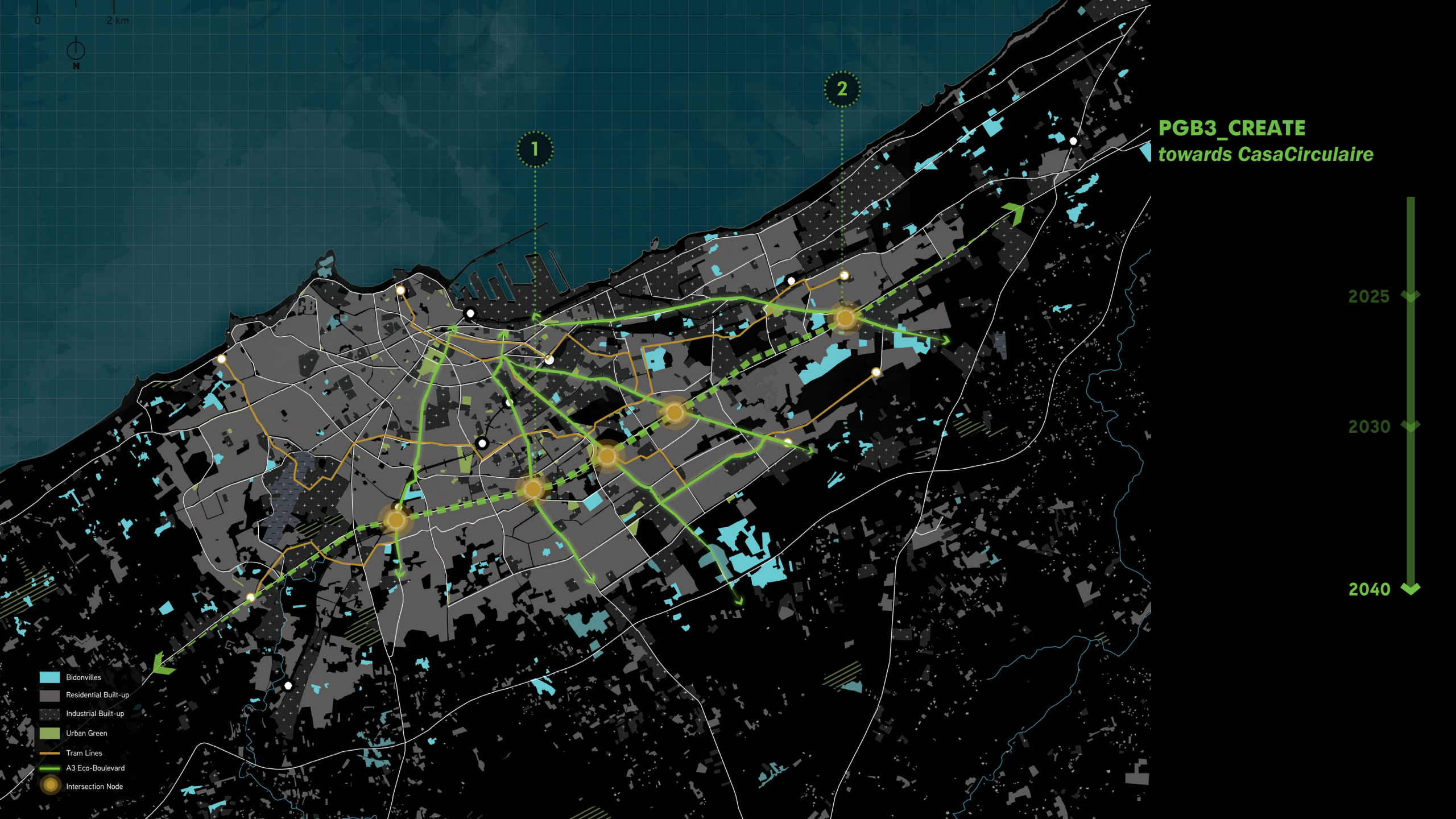


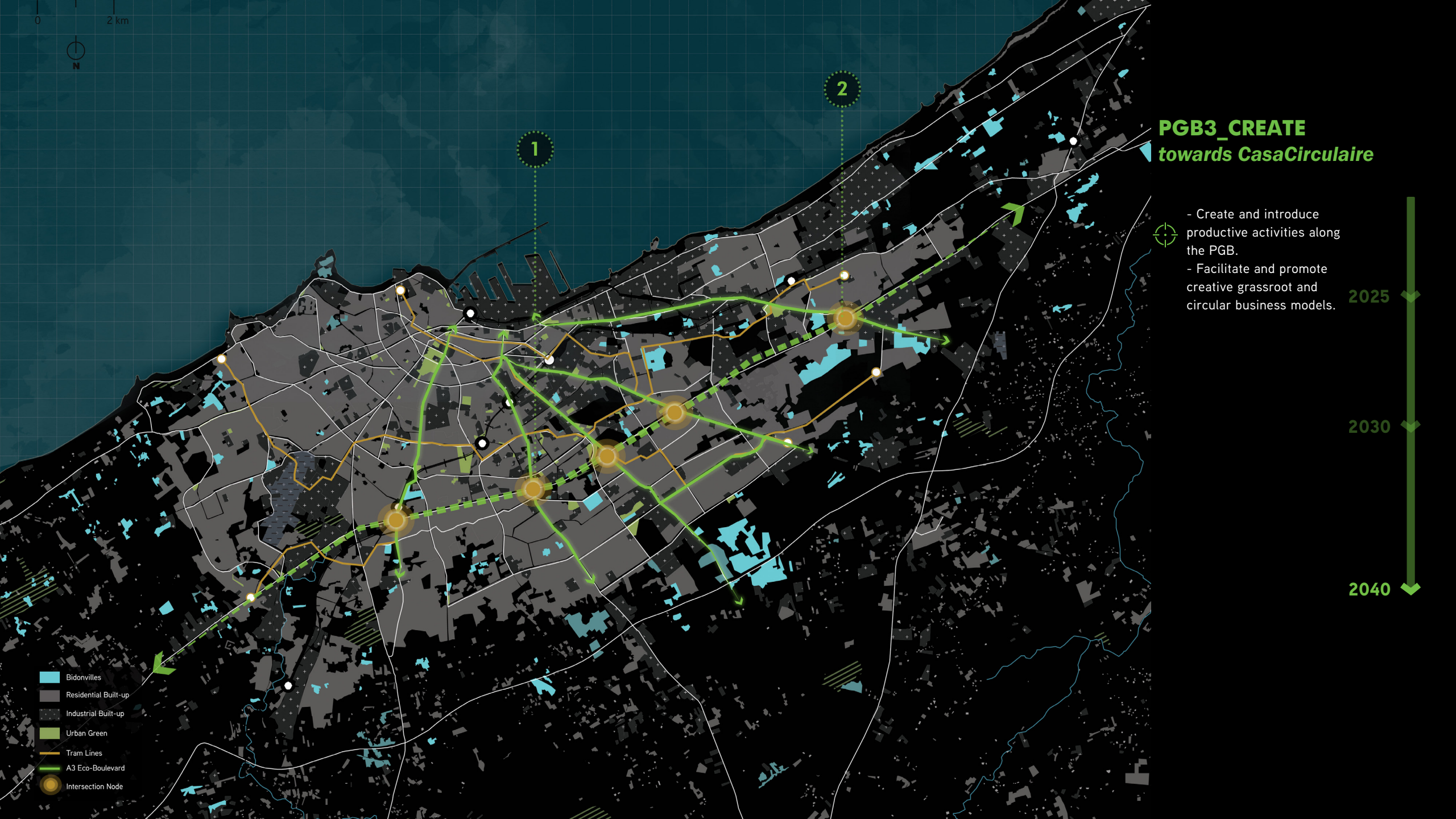


POLICY FOCUS:

Communication Raising awareness about the benefits and consequences of PGB contribution and use

- Develop a marketing strategy.
- Specific financial tools depending in the context.
- Engagement and implementation: A clear se of guidelines.





- Bidonvilles
- Residential Built-up
- Industrial Built-up
- Urban Green
- Tram Lines
- A3 Eco-Boulevard
- Intersection Node

PGB3_CREATE towards CasaCirculaire

- Create and introduce productive activities along the PGB.
- Facilitate and promote creative grassroots and circular business models.

2025

2030

2040





Bidonvilles Border Activation

Making use of the Dynamism of the bidonvilles borders in promoting productive activities to facilitate the integration to the PGB.



Invest in Green Revitalisation

Activating and integrating the existing derelict park in the PGB. Introducing new qualities (Weekly Markets, Outdoor Sports ...)

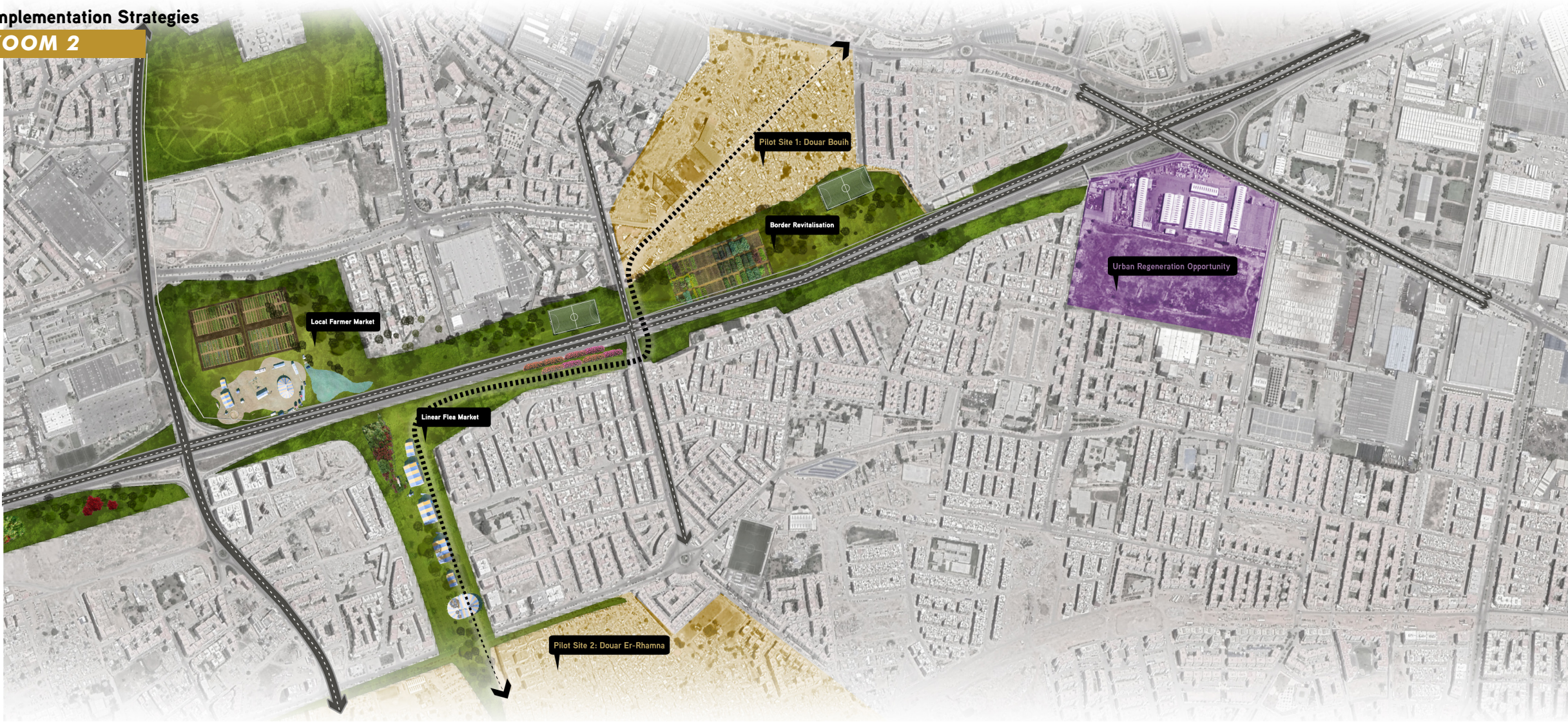


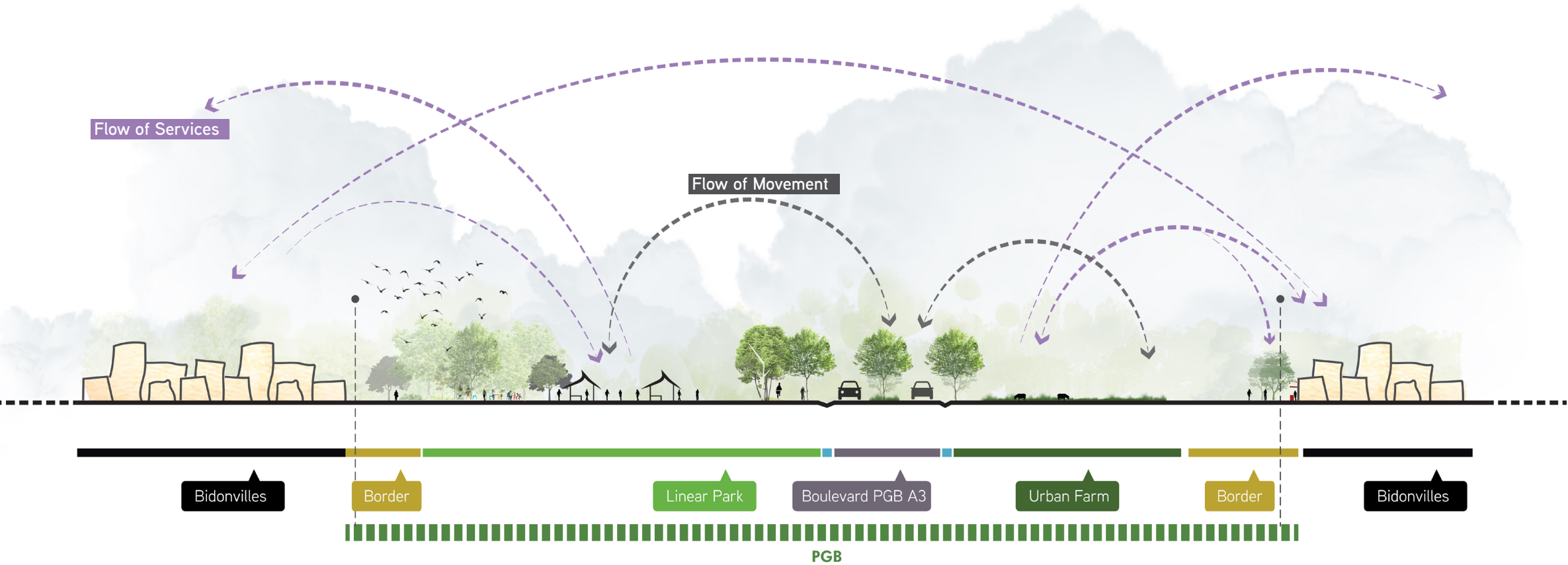
Vacant Spaces

Repurpose the empty industrial site to a temporary neighborhood facility, pop-up cultural events that require or co-creation experiments.

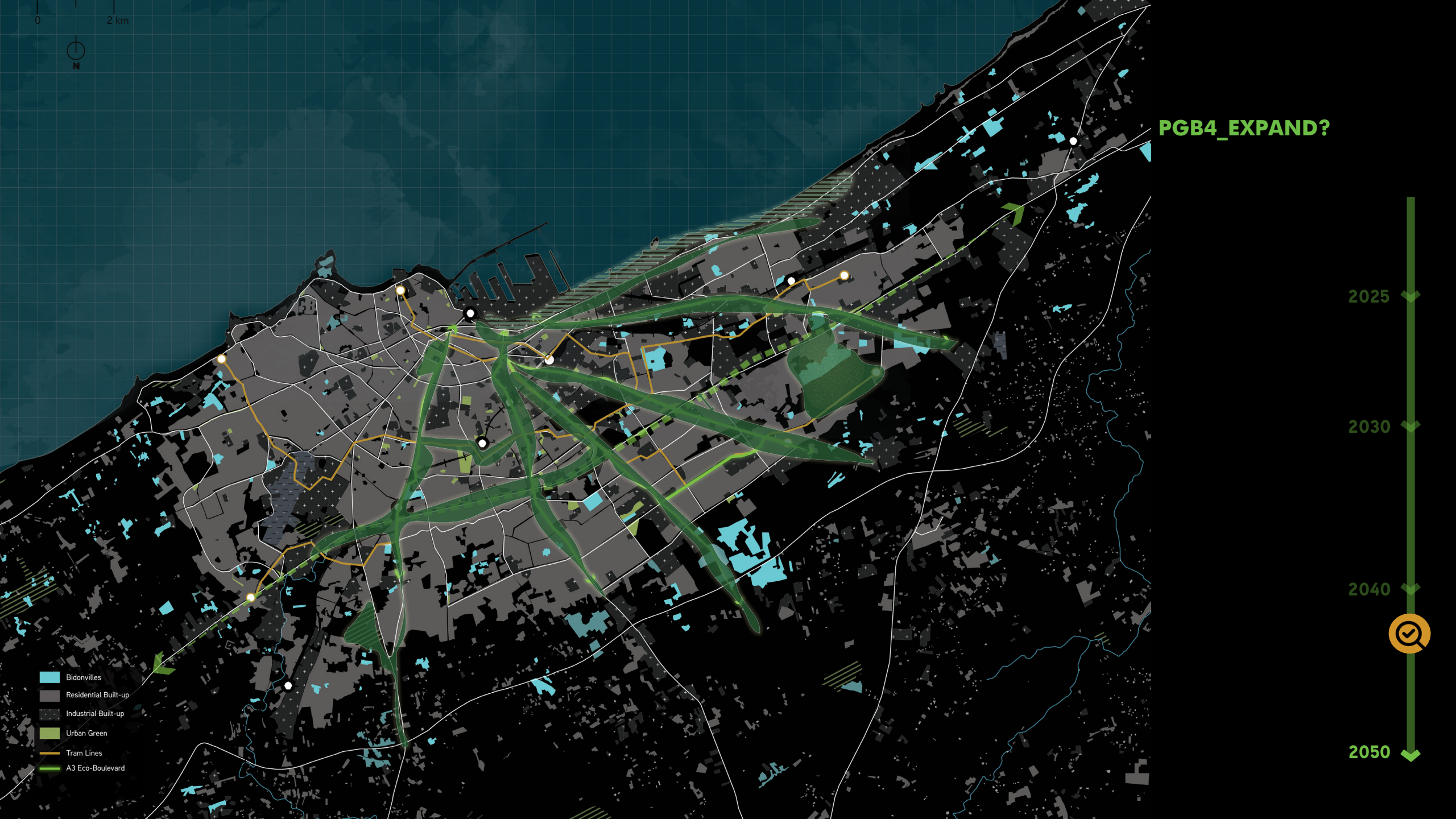
Implementation Strategies

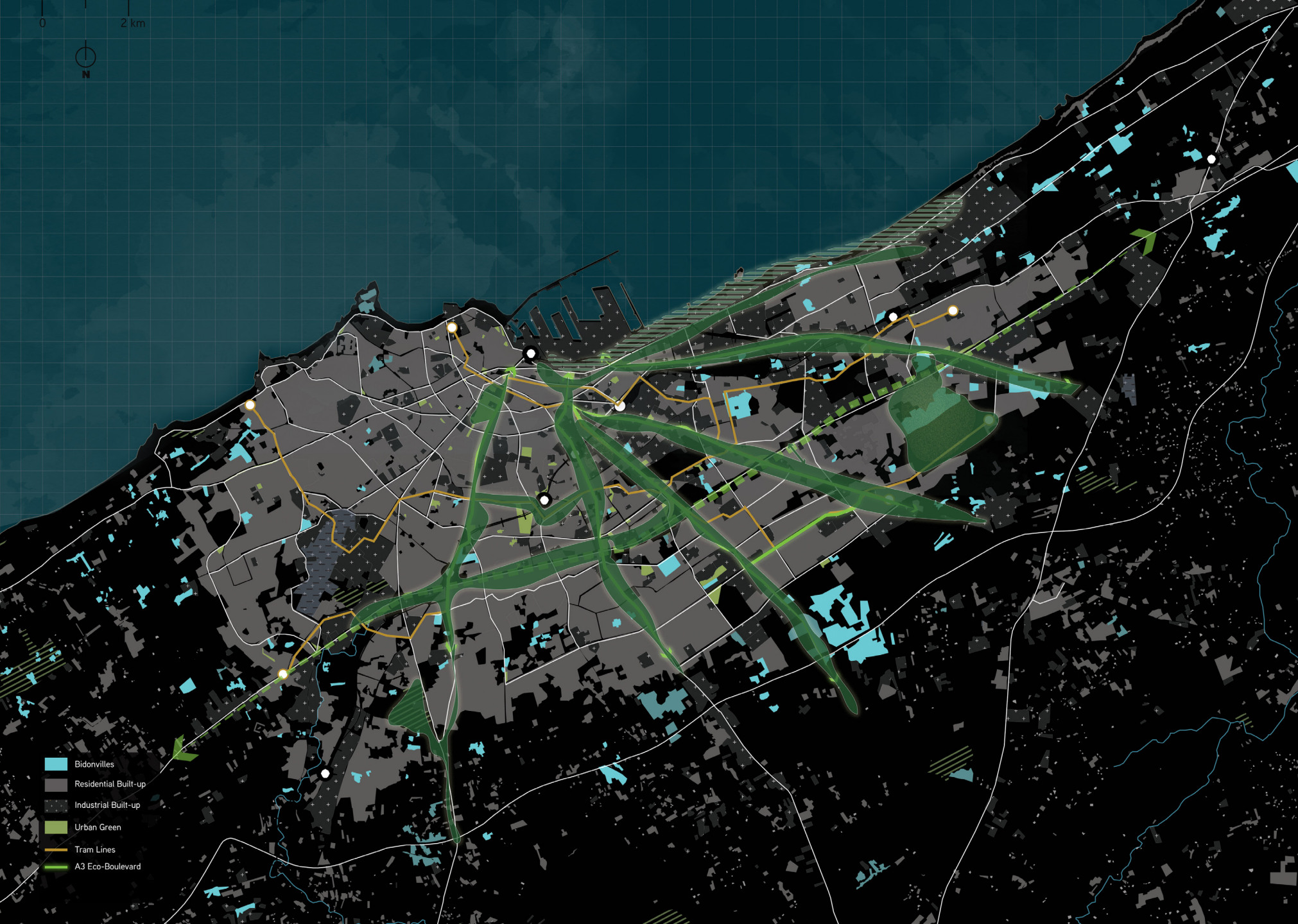
ZOOM 2







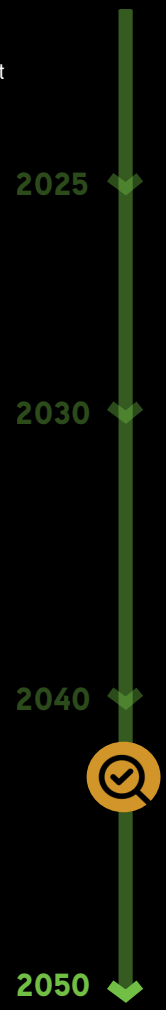


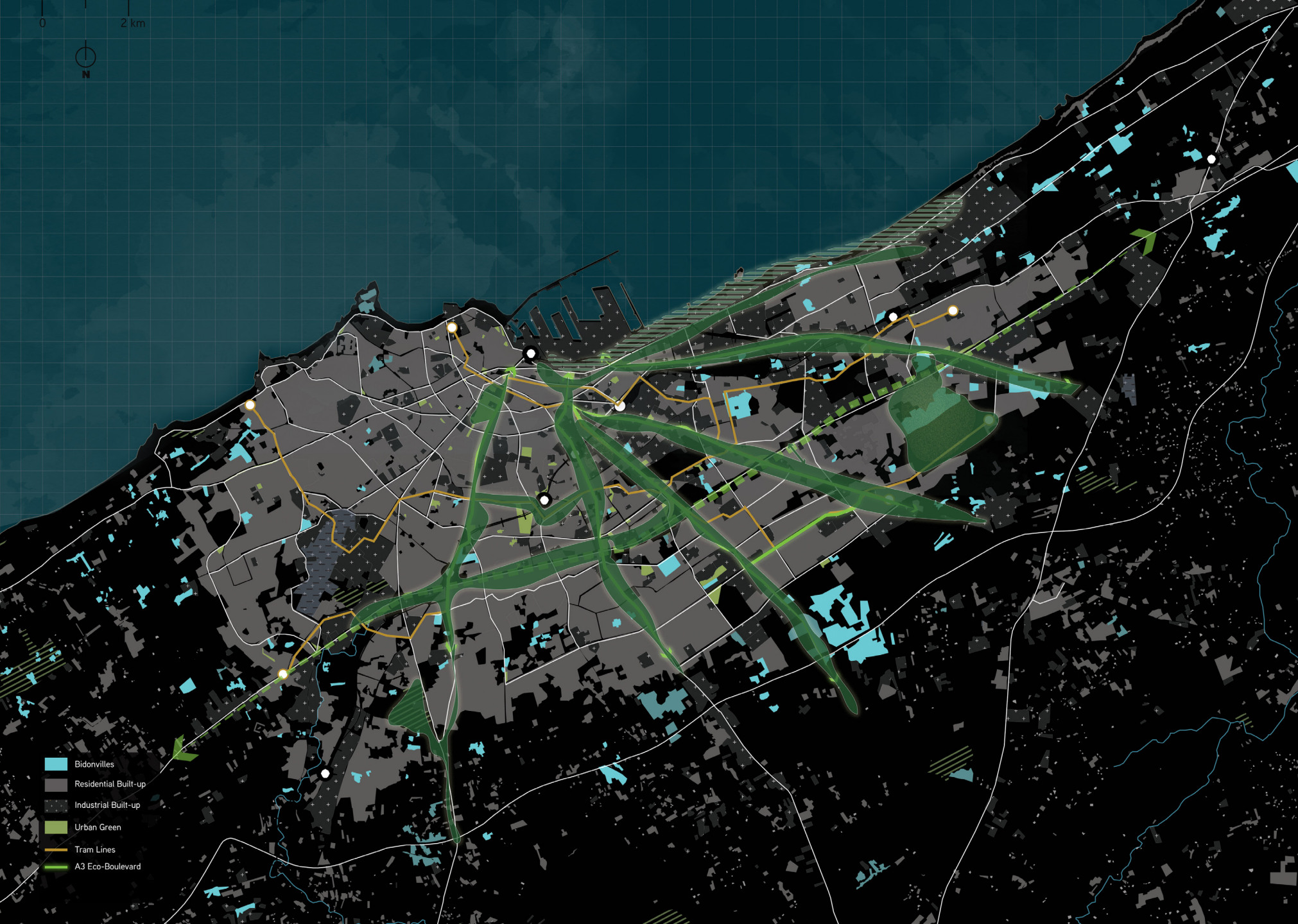


- Bidonvilles
- Residential Built-up
- Industrial Built-up
- Urban Green
- Tram Lines
- A3 Eco-Boulevard

PGB4_EXPAND?

Expand the Productive greenbackbone throughout the city and the region forming a network of circular activities in different scales.





PGB4_EXPAND?



Expand the Productive greenbackbone throughout the city and the region forming a network of circular activities in different scales.



The Opposing Stakeholder

2025

2030

2040

2050



Implementation Strategies
ACTIONS TOOLBOX



SG _ *Space*

Quality of Public Space and Urban Landscape

SG _ *Society*

Bidonvilles Reconciliation

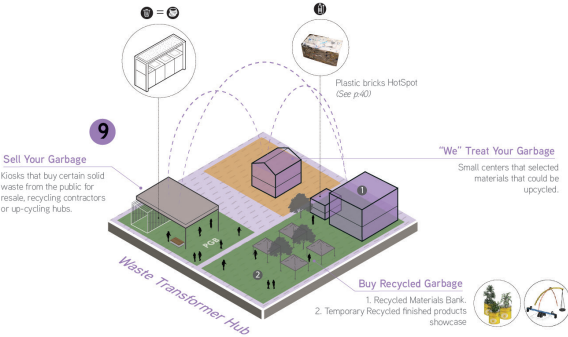
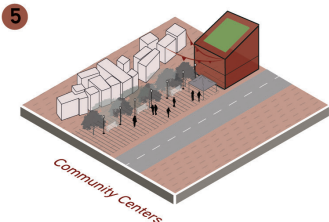
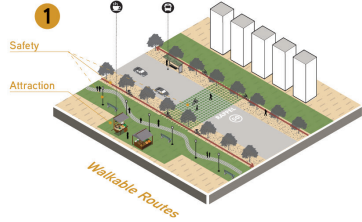
SG _ *Economy*

Transition to Circular Economy Development

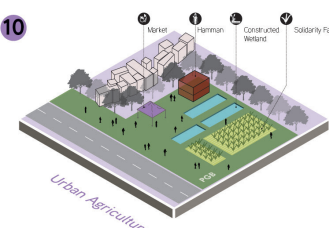
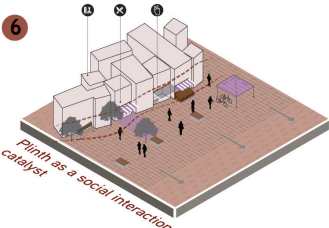
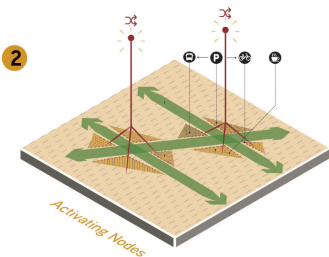
Implementation Strategies

ACTIONS TOOLBOX

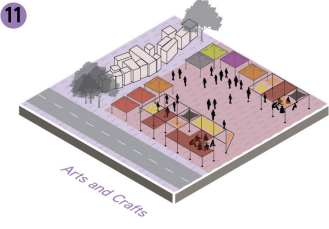
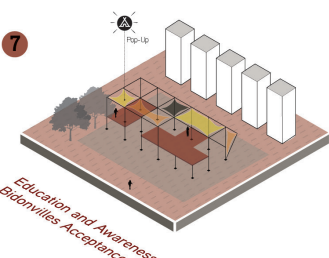
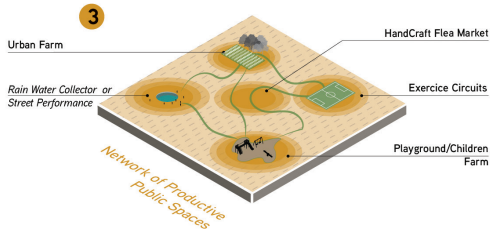
Connect



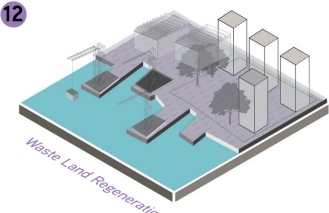
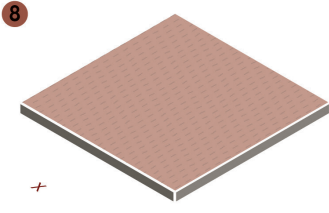
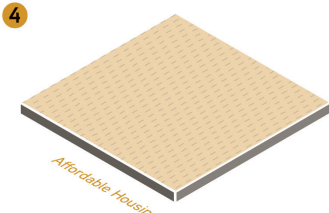
Attract



Create



Expand



SG _ Space

SG _ Society

SG _ Economy

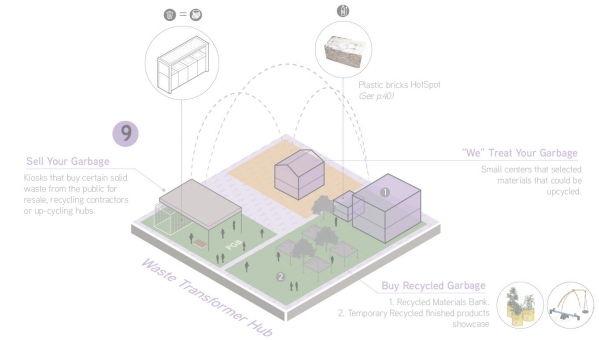
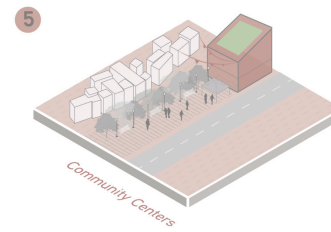
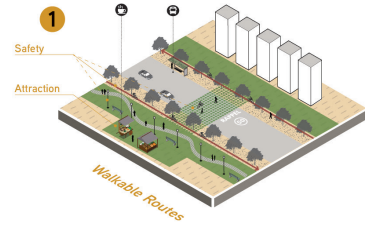
Quality of Public Space and Urban Landscape

Bidonvilles Reconciliation

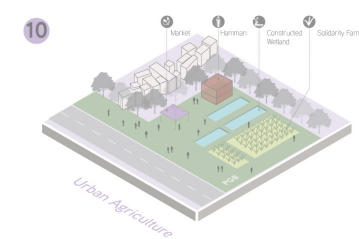
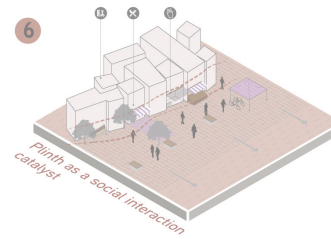
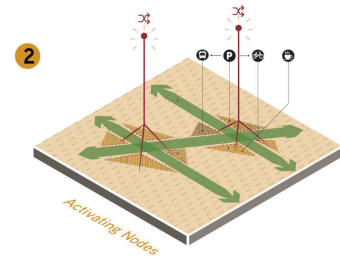
Transition to Circular Economy Development

Implementation Strategies
ACTIONS TOOLBOX

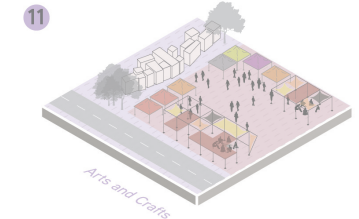
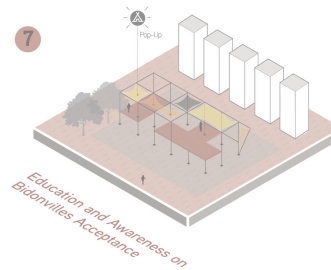
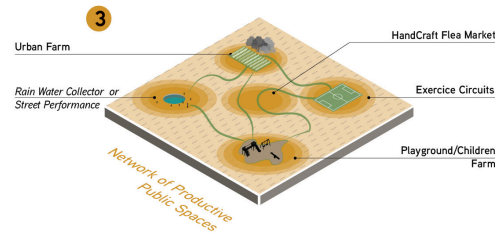
Connect



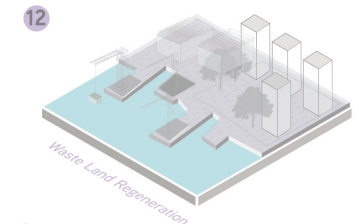
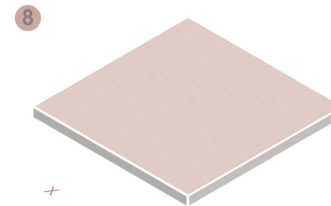
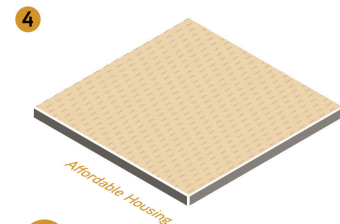
Attract



Create



Expand



SG _ Space

SG _ Society

SG _ Economy

Quality of Public Space and Urban Landscape

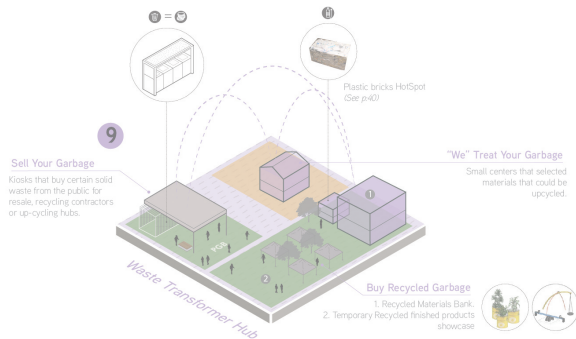
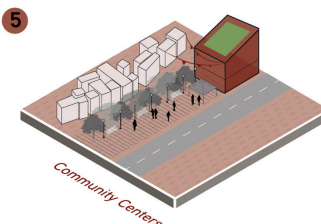
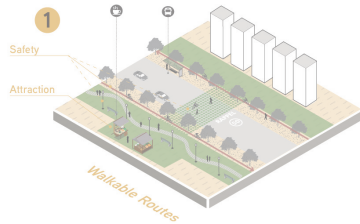
Bidonvilles Reconciliation

Transition to Circular Economy Development

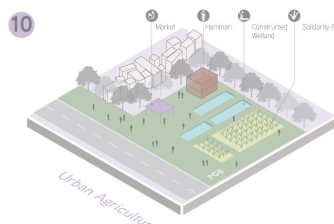
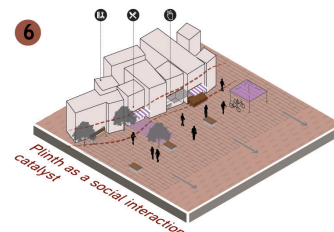
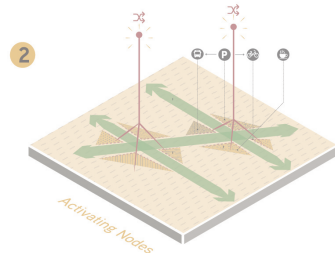
Implementation Strategies

ACTIONS TOOLBOX

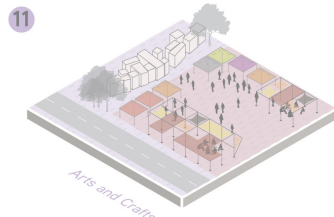
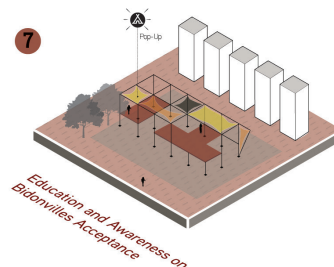
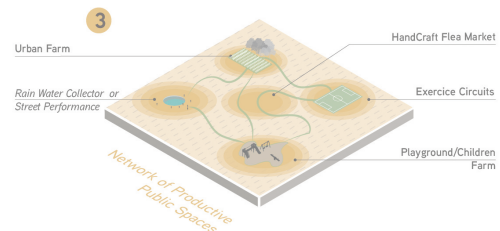
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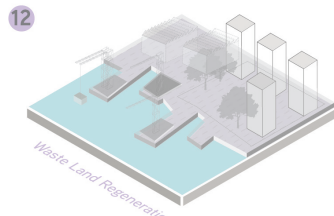
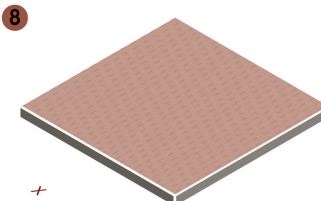
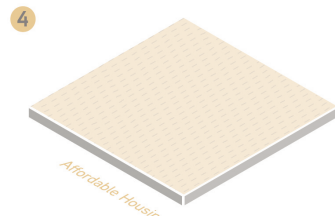
Attract



Create



Expand



SG _ Space

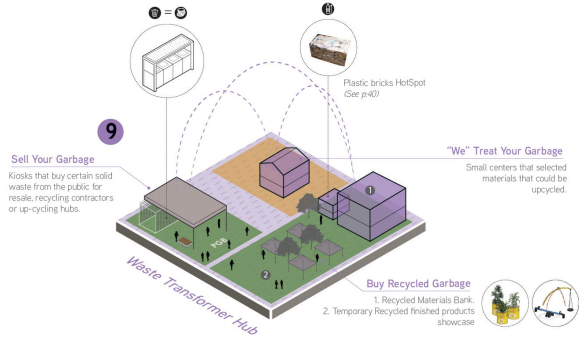
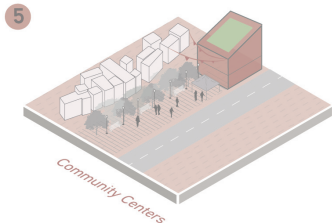
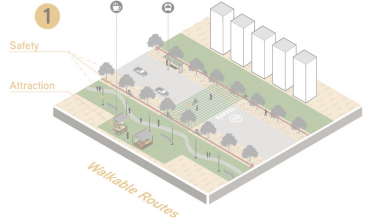
SG _ Society

SG _ Economy

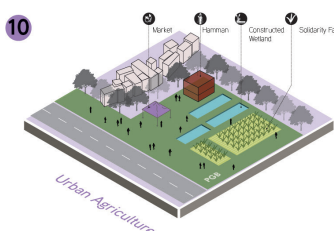
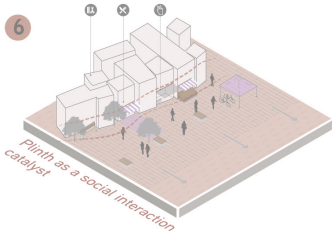
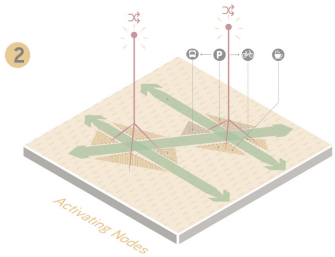
Implementation Strategies

ACTIONS TOOLBOX

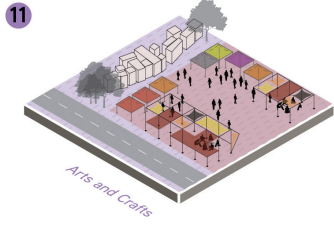
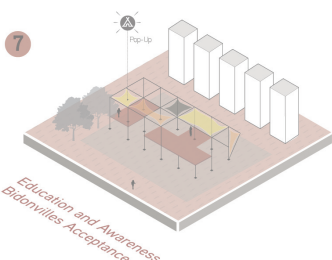
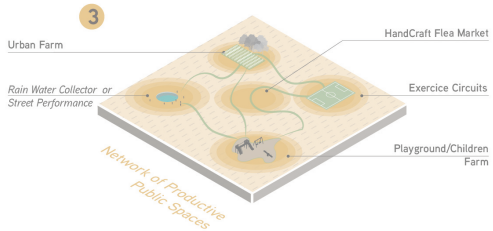
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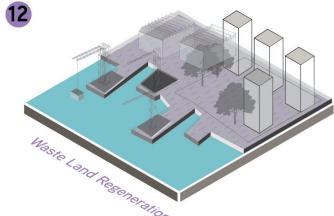
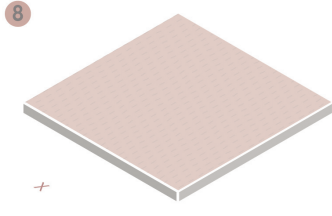
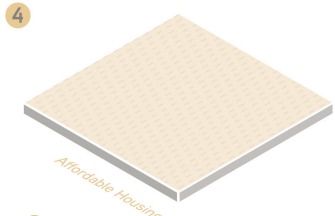
Attract



Create



Expand



SG _ Space

SG _ Society

SG _ Economy

Quality of Public Space and Urban Landscape

Bidonvilles Reconciliation

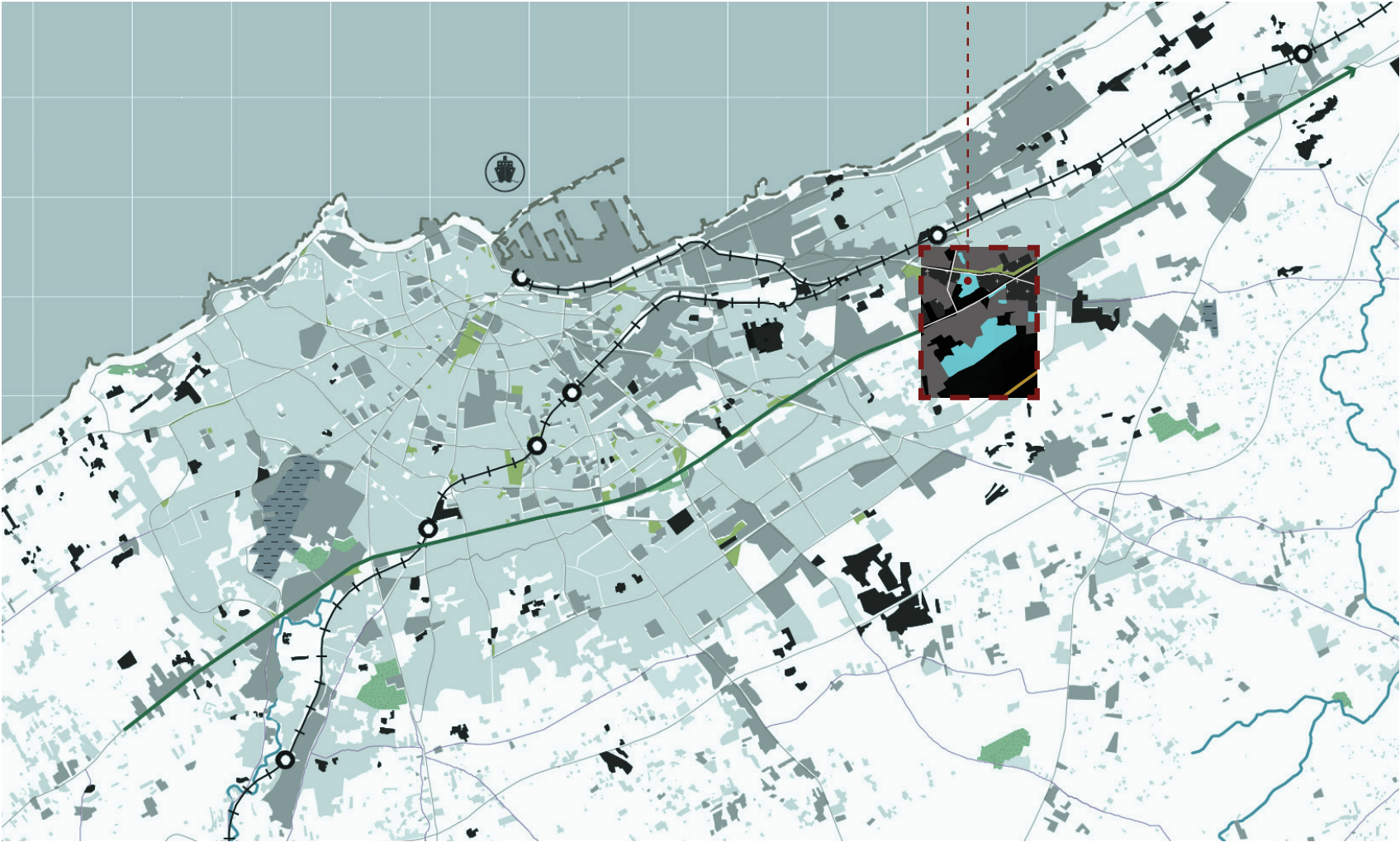
Transition to Circular Economy Development



4

DESIGN SITES

Pilot Site 1: Douar Bouih



Design Site

SITE: DOUAR BOUIH



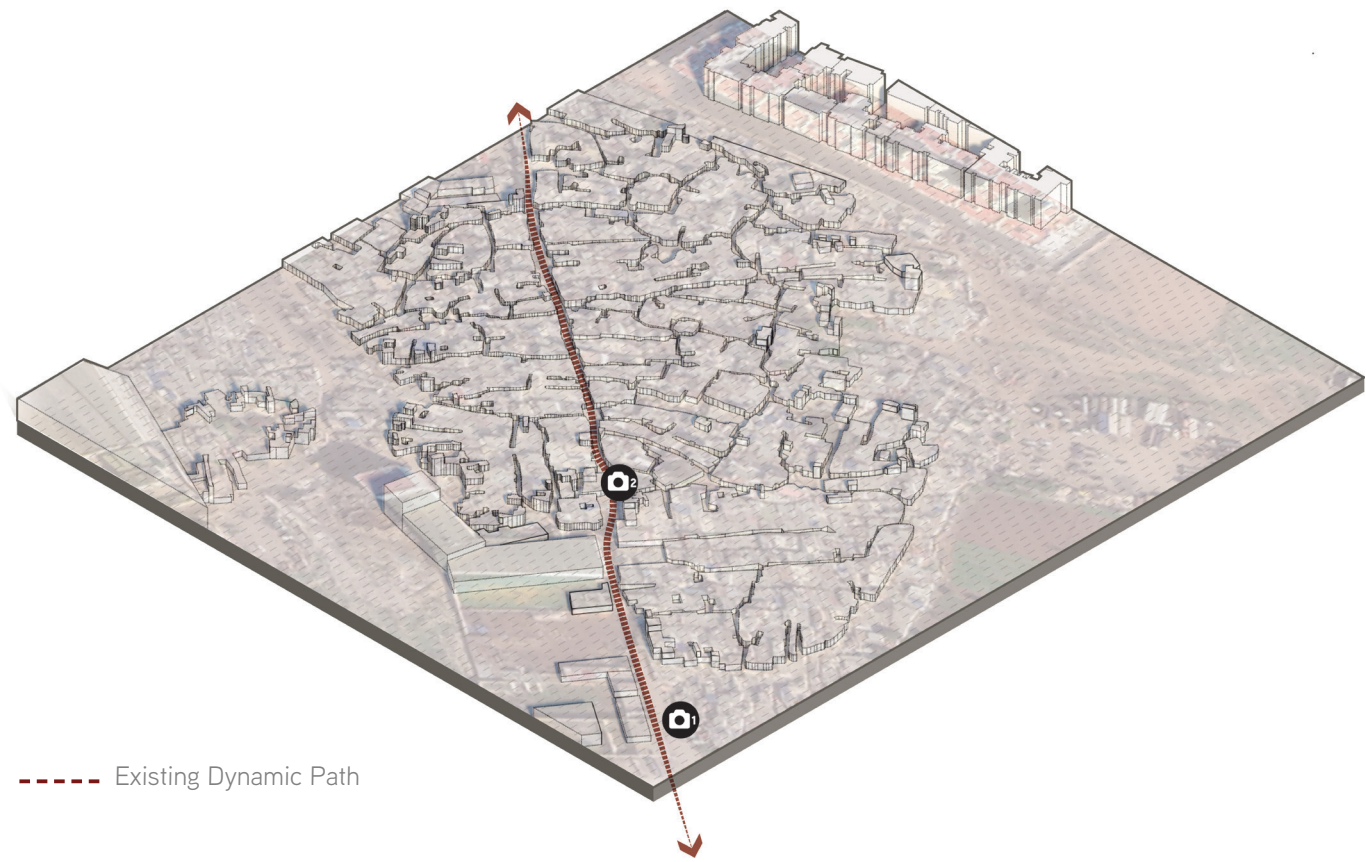
Design Site

SITE: DOUAR BOUIH



Design Site

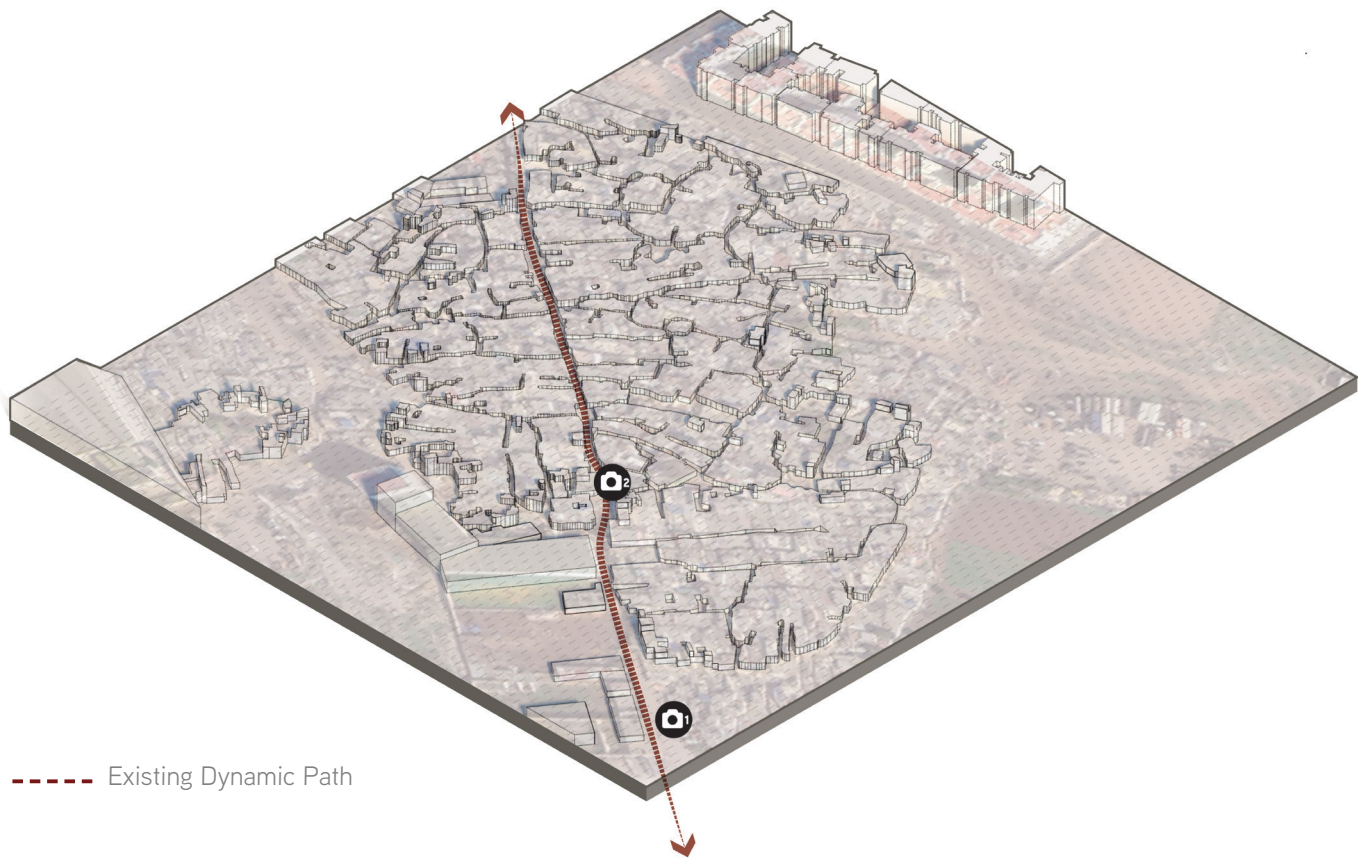
SITE: DOUAR BOUIH



Entrance of Douar Bouih
Photo taken by Author.

Design Site

SITE: DOUAR BOUIH



----- Existing Dynamic Path

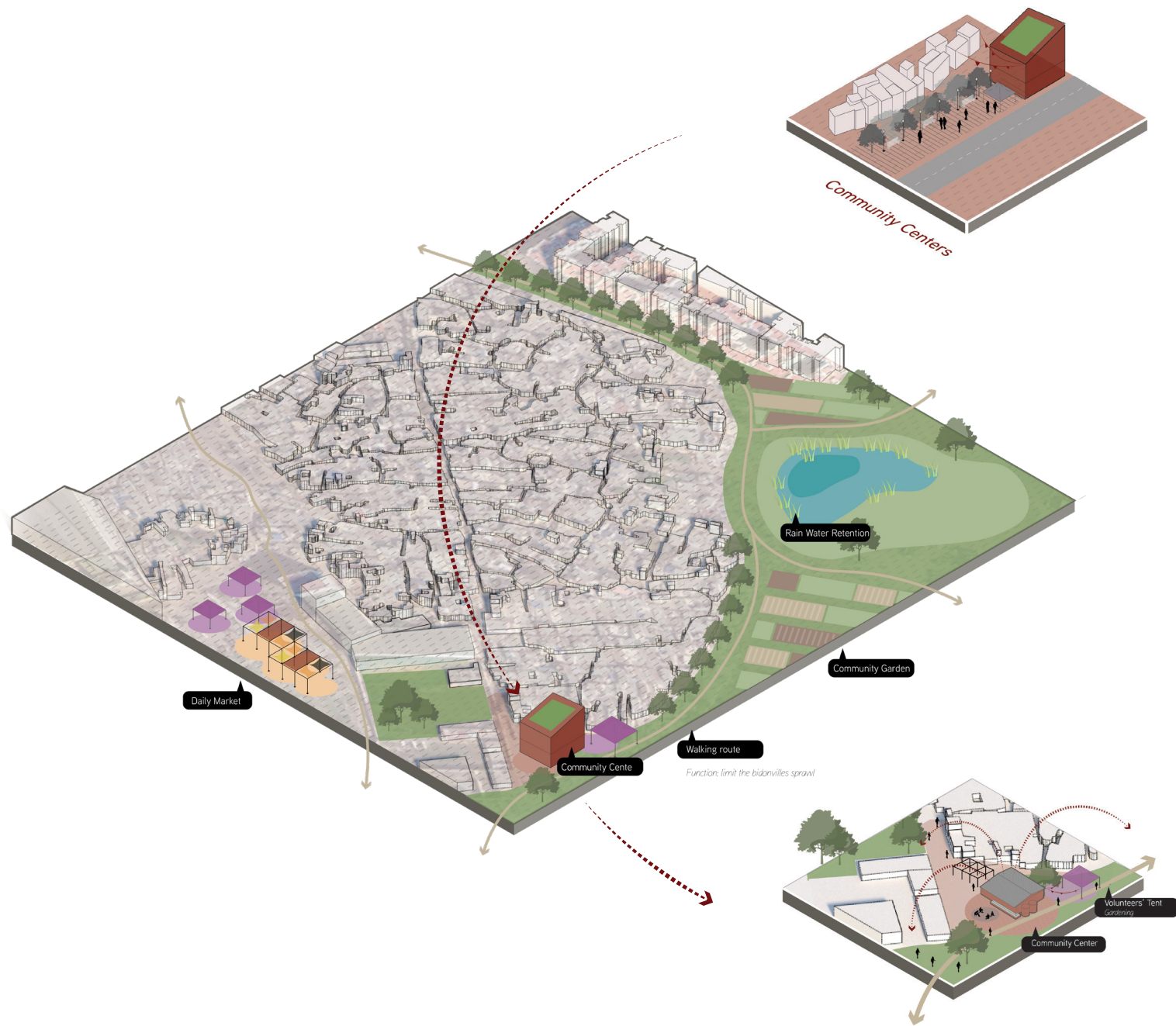


Entrance of Douar Bouih
Photo taken by Author.

Design Site
SITE: DOUAR BOUIH

1- CONNECT

The bidonville strength is its vibrant community. We can improve the image of the bidonville by reinforcing existing social structures and addressing everyday problems!

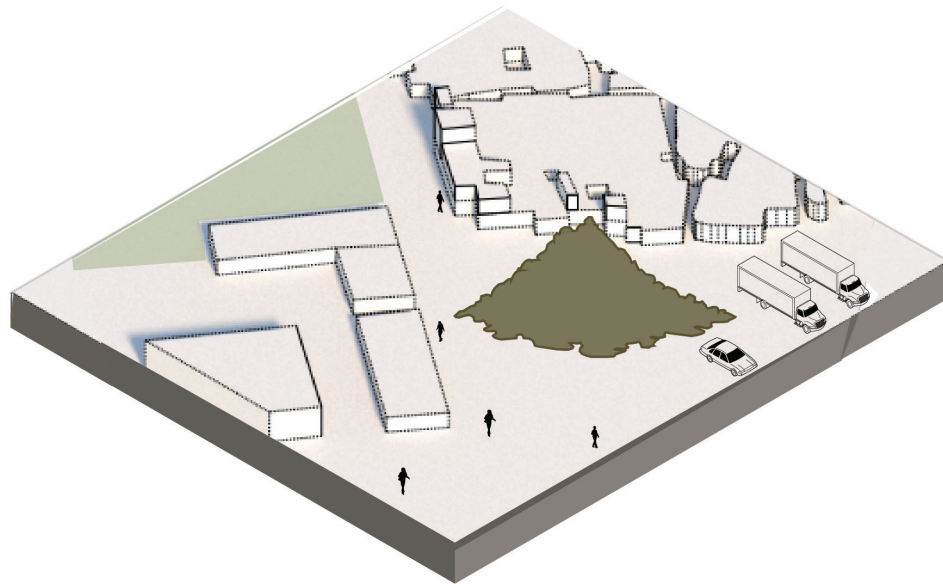


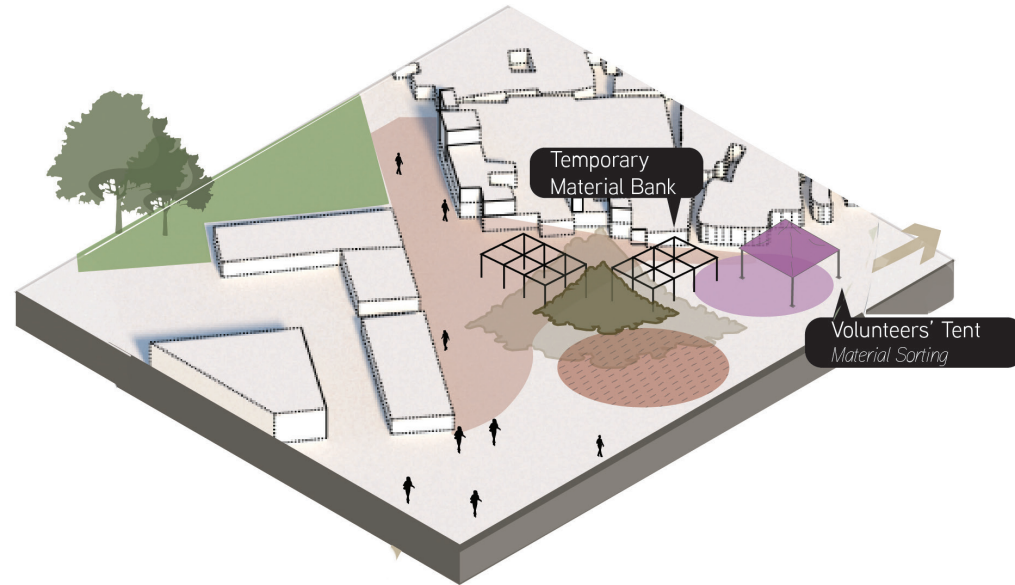
Community Center
A Catalyst of Social and Economic Integration

Design Site

SITE: DOUAR BOUIH

1- CONNECT

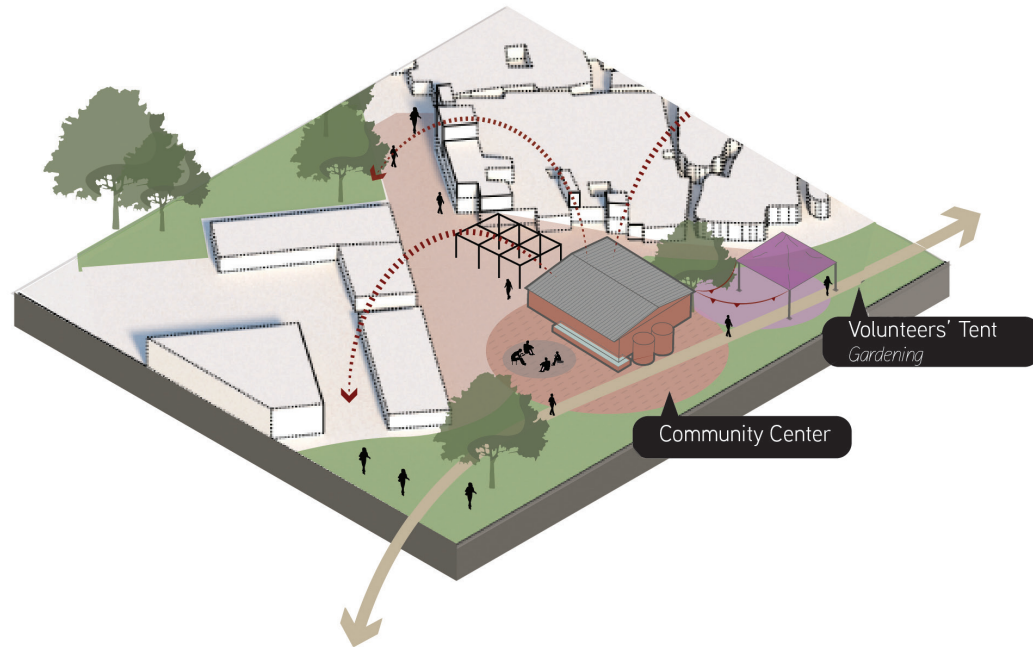




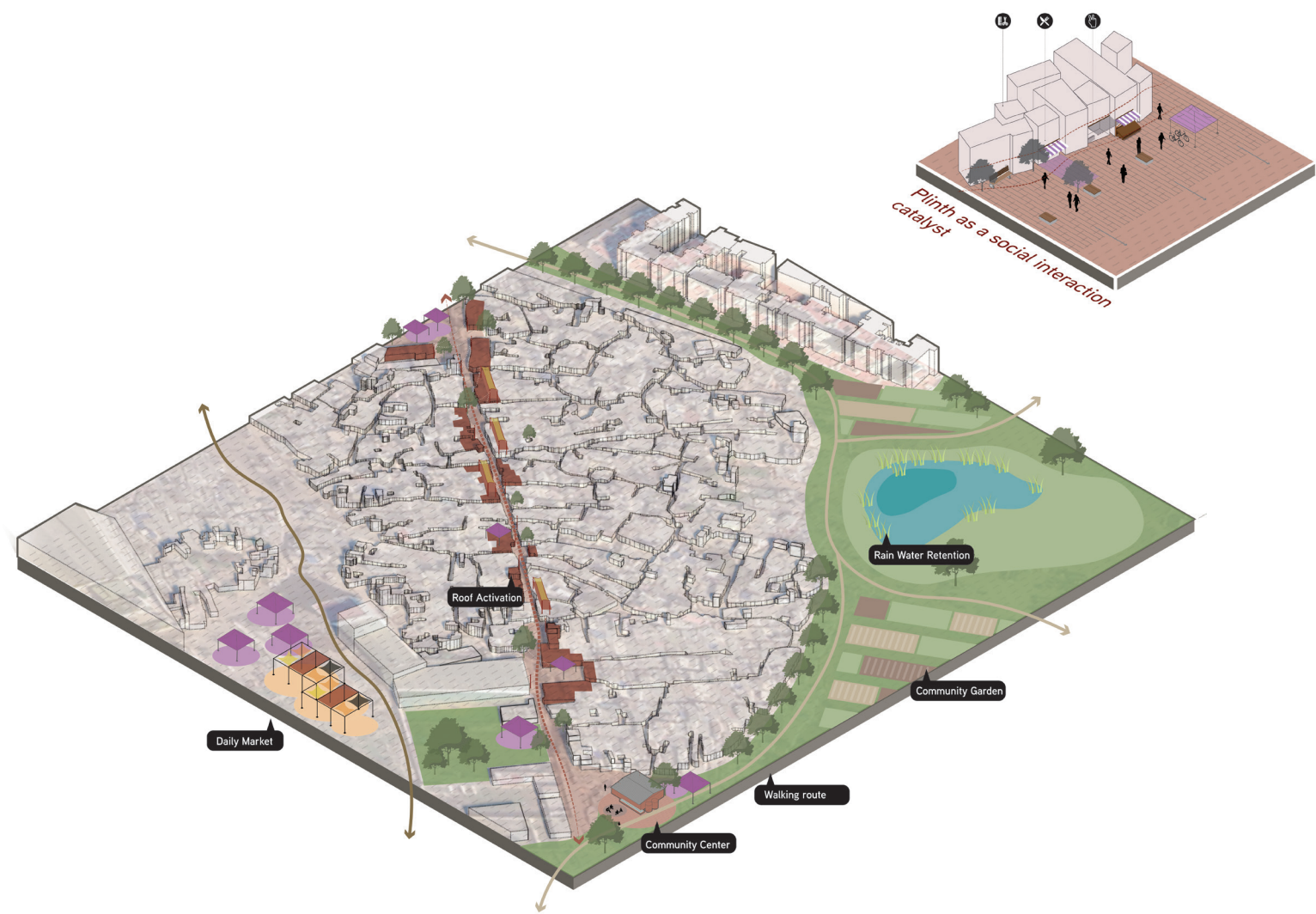
Design Site

SITE: DOUAR BOUIH

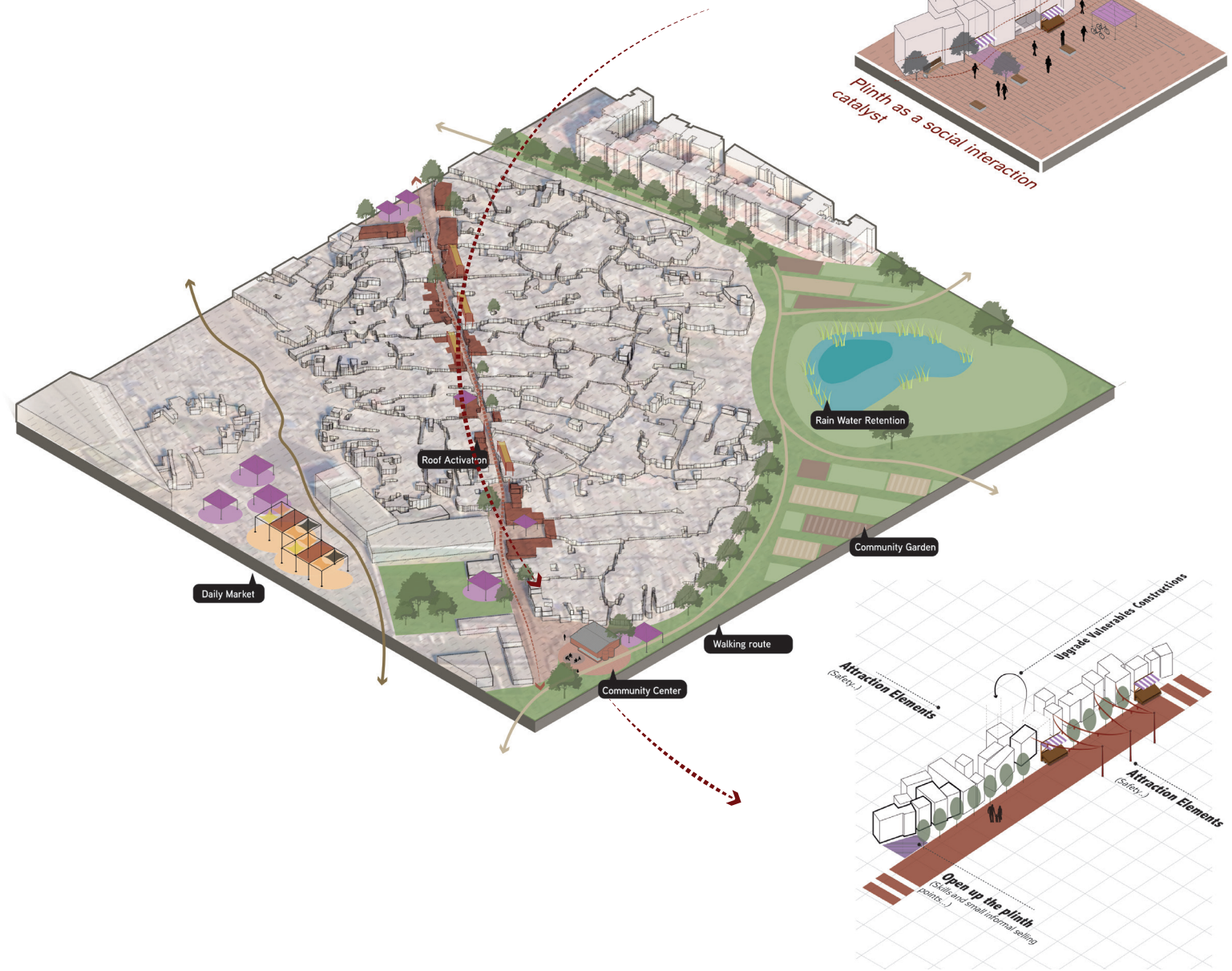
1- CONNECT



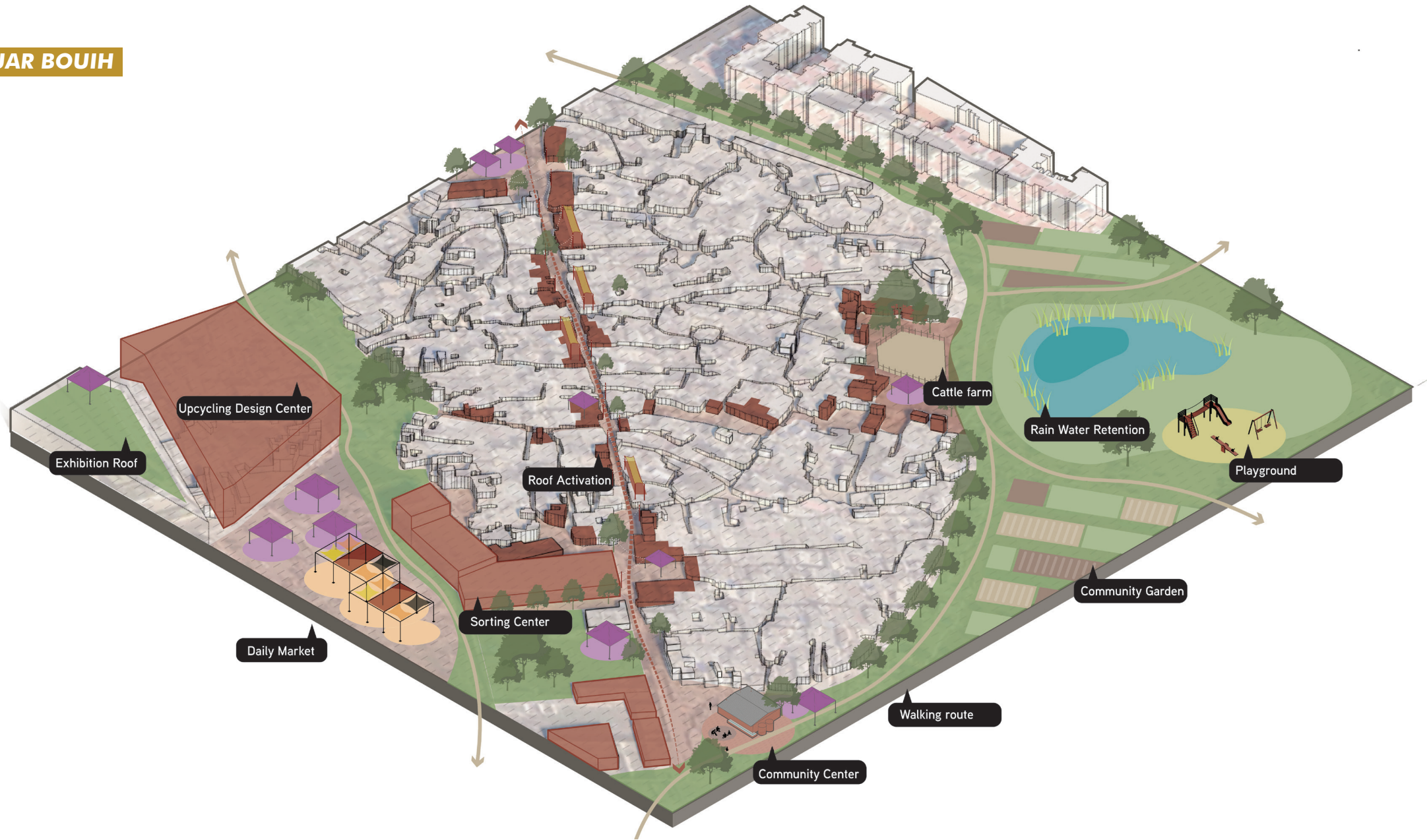
Design Site
SITE: DOUAR BOUIH
2- ATTRACT

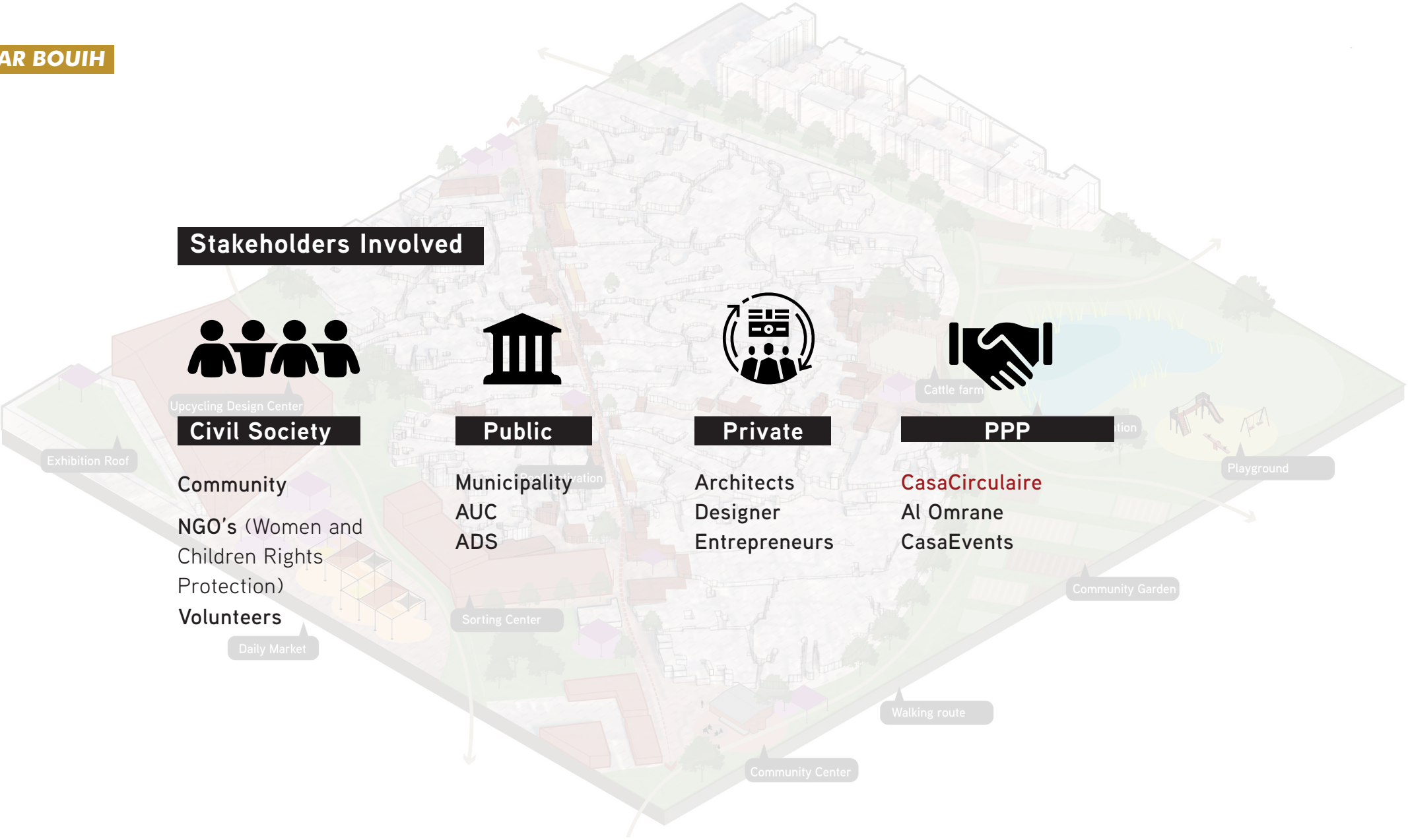


Design Site
SITE: DOUAR BOUIH
2- ATTRACT



Design Site
SITE: DOUAR BOUIH
3- CREATE









CONCLUSION *and* DISCUSSION

**THE FUTURE OF THE BIDONVILLES IS STILL UNCERTAIN...
WILL THEY STAY? OR GO? AND WHERE?**

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ONE THING IS CERTAIN... THE PGB

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WILL THEY STAY? OR GO? AND WHERE?**

ONE THING IS CERTAIN... THE PGB

HOWEVER, TWO SCENARIOS ARE POSSIBLE:

In-situ Circular Upgrading

Relocation Within

IN-SITU CIRCULAR UPGRADING



-  Bidonvilles
-  Residential Built-up
-  Industrial Built-up
-  Urban Green
-  Tram Lines
-  PGB Expansion Proposal

RELOCATION WITHIN



EXPAND!



CONTEXTUALISED CIRCULAR ECONOMY

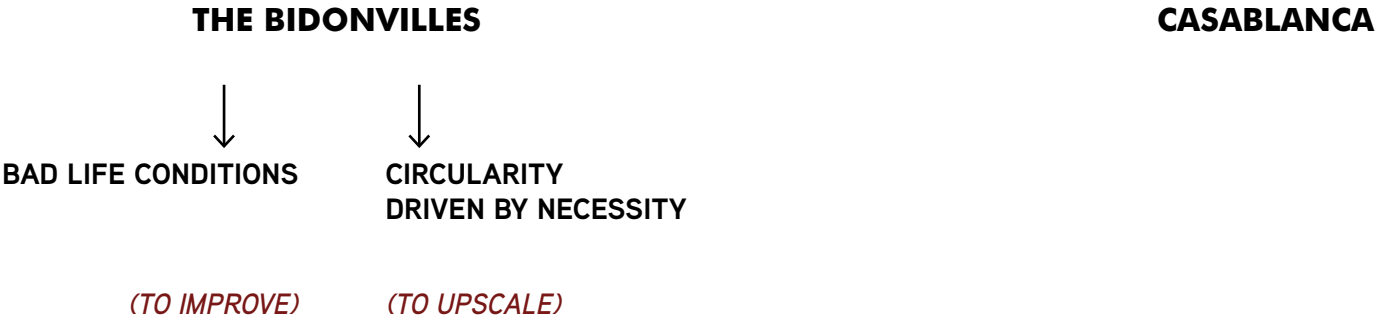
A concept that follows the CE principles by investigating existing **economic** practices (Productive Identities), connects them to the urgent **social** issues in order to improve the **spatial** conditions.

How could contextualised circular economy framework facilitate the integration of les bidonvilles within the city of Casablanca and act as a catalyst for inclusive development?

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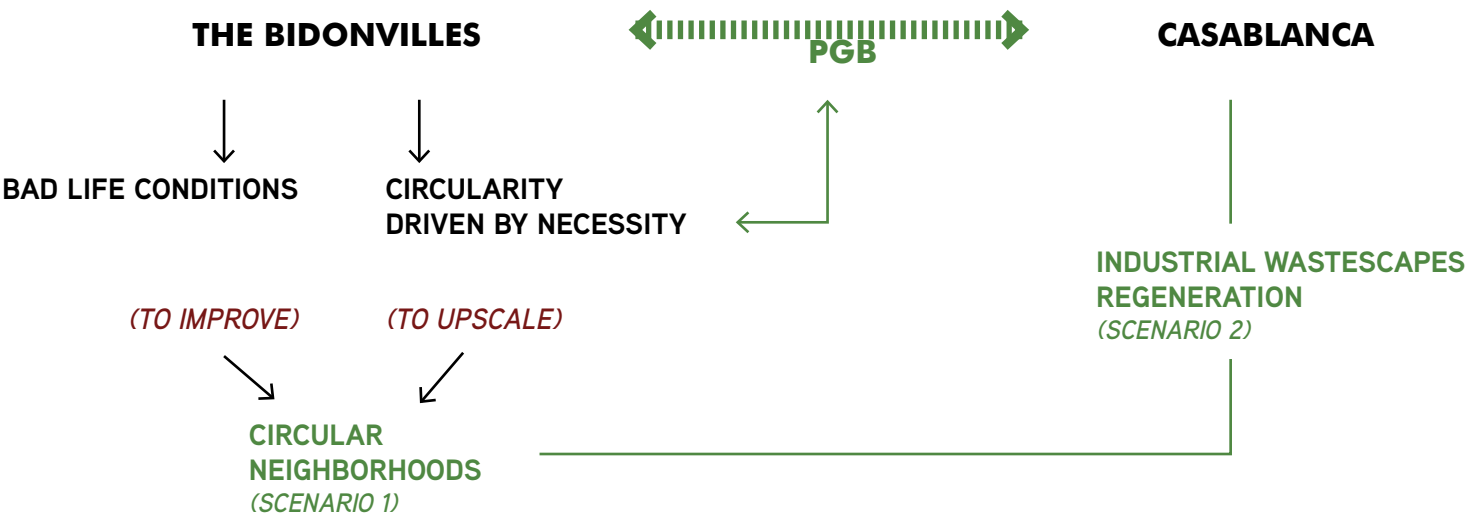
How could contextualised circular economy framework facilitate the integration of les bidonvilles within the city of Casablanca and act as a catalyst for inclusive development?



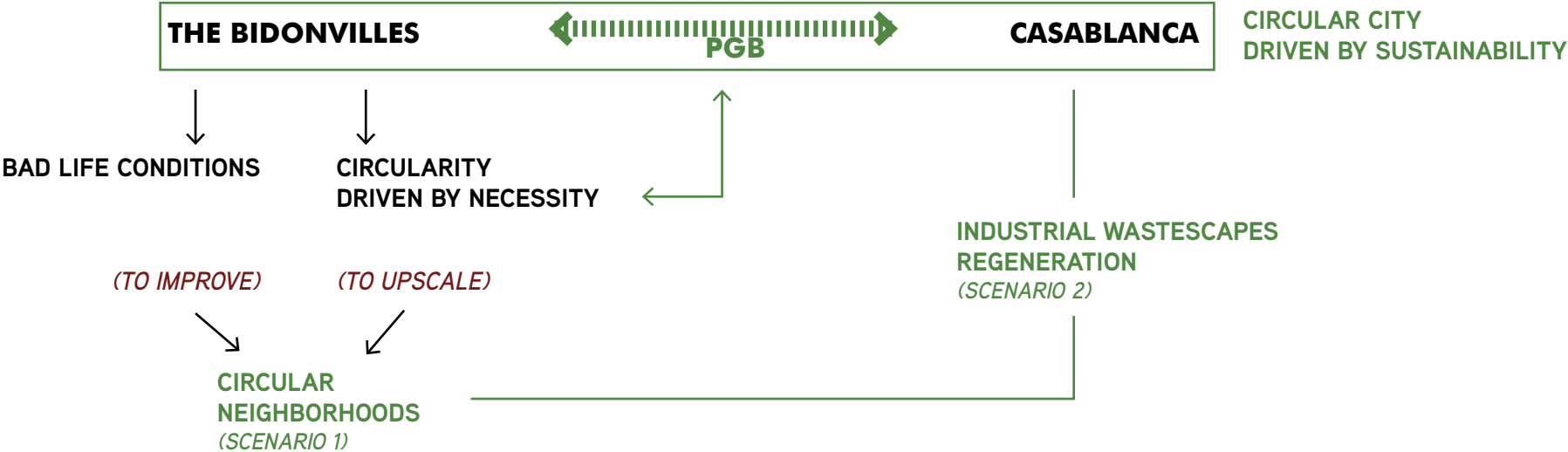
How could contextualised circular economy framework facilitate the integration of les bidonvilles within the city of Casablanca and act as a catalyst for inclusive development?



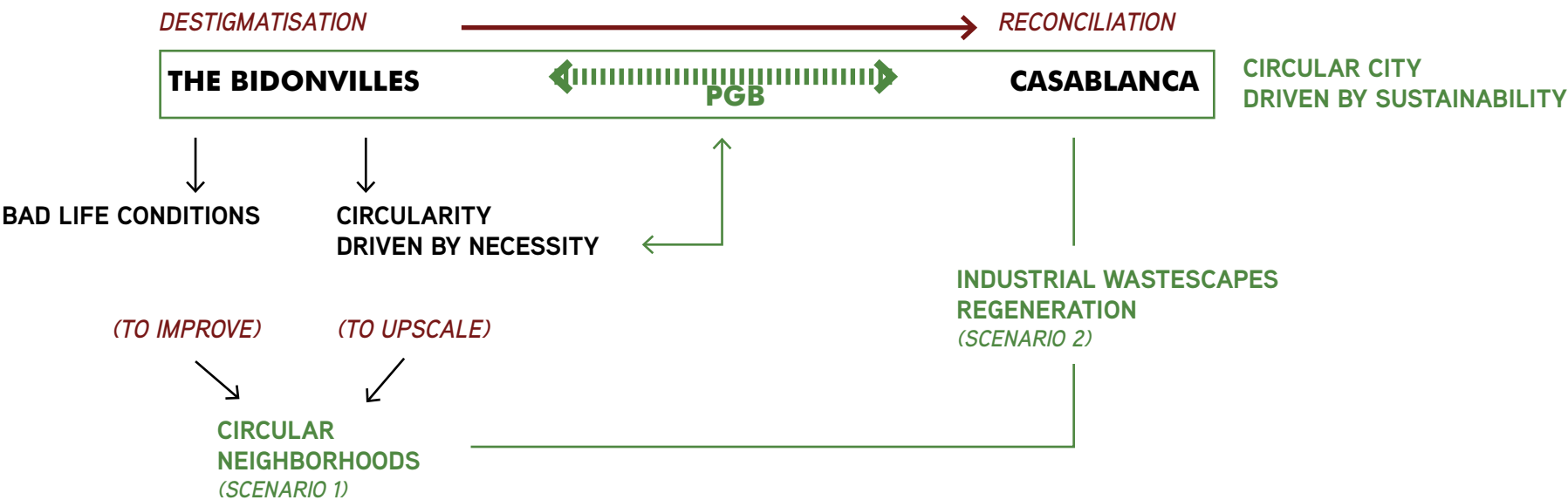
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THANK YOU!