

JIM  
ANÍ

# An Abundance of Opportunities

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University of Pennsylvania Fall 2023 Studio





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## Introducing Jimaní

Jimaní in context

Existing conditions

Constraints and opportunities

## The Planning Process

Charrette

Big vision

Goals for development

## The Plan

Evolution of the plan

System layers

Detailed zones

# Introduction to Jimaní

Jimaní in context  
Existing conditions  
Constraints & opportunities



# Natural Systems





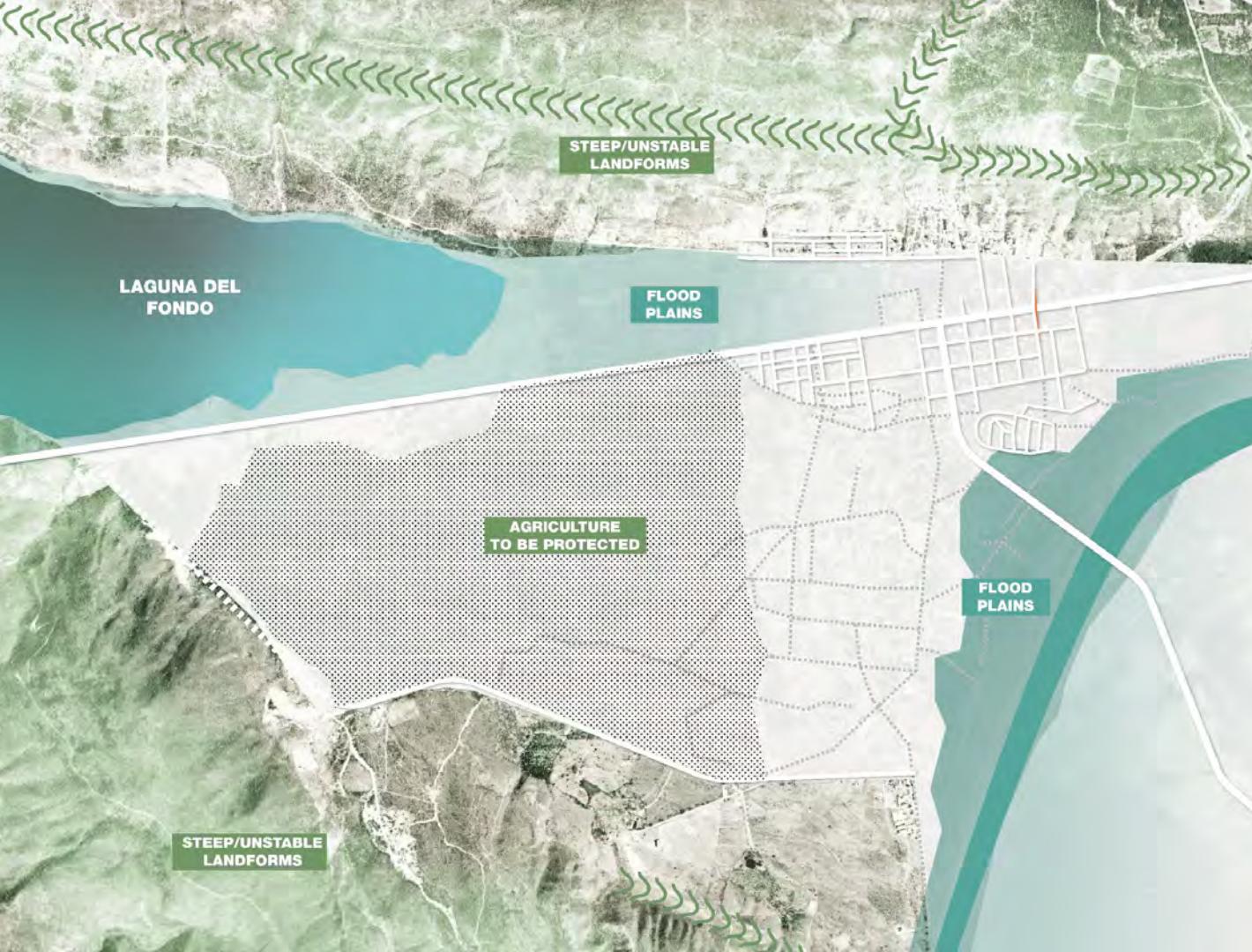




Although Jimaní has a series of groundwater siphons, only a quarter of families in the city have access to water.







## Constraints

Flood plains  
Steep/unstable  
landforms  
Deforestation  
Dry riverbed



**Natural**

## **Constraints**

Flood plains  
Steep/unstable  
landforms  
Deforestation  
Dry riverbed

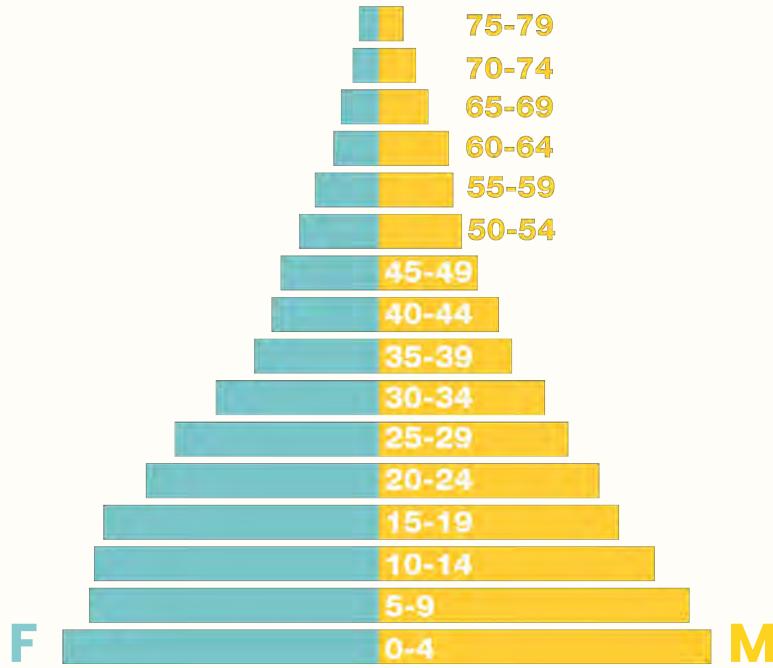
## **Opportunities**

Siphons  
Wetlands  
Vistas  
Lago Azuei  
Proximity to  
National Parks



**18,466**

**POPULATION**



**Majority young people**



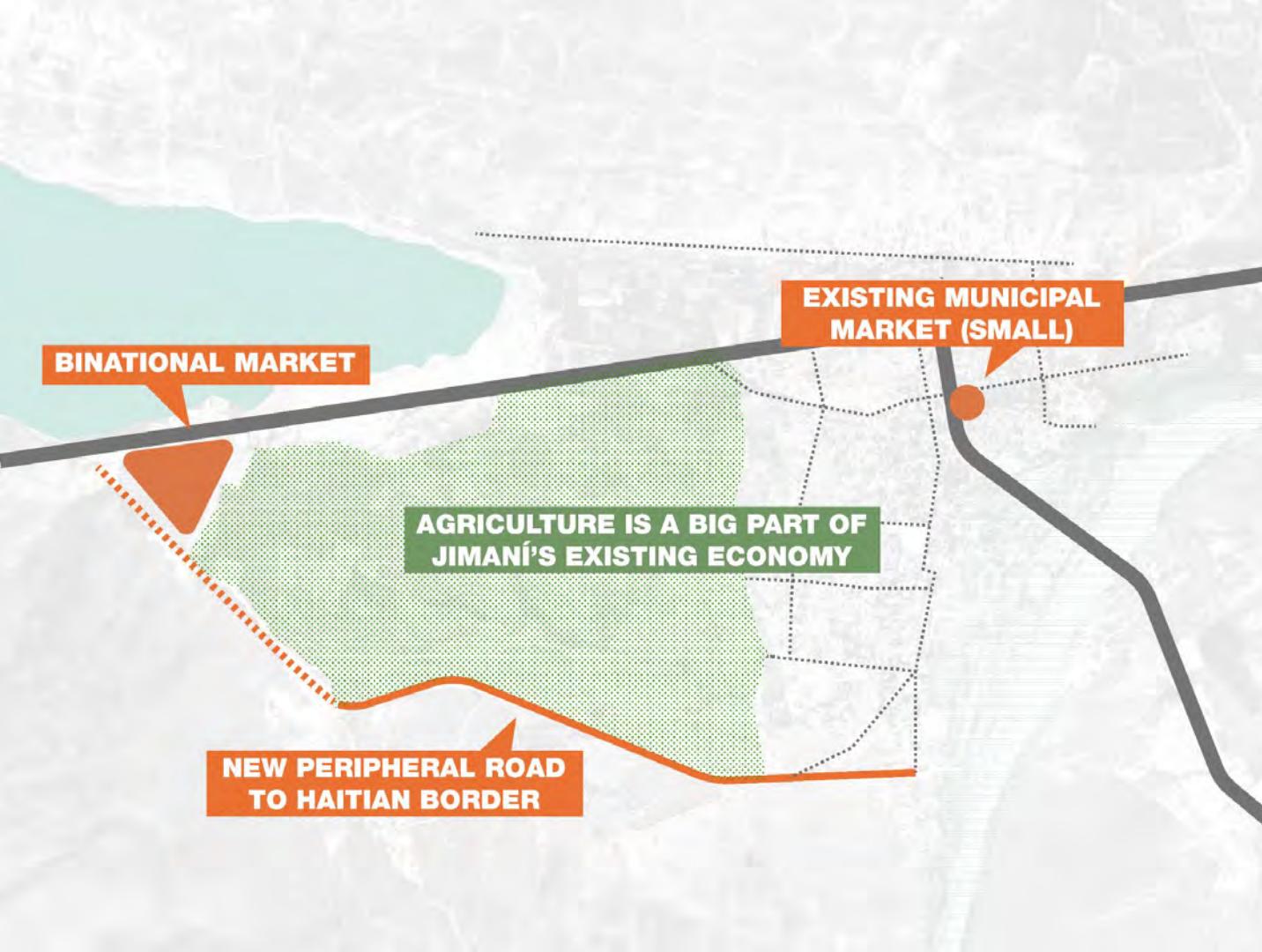


Jimaní is a 1.5-hour drive from Port-au-Prince.

The Barahona-Port-au-Prince connection is strengthening, despite Haiti's situation at the moment.

Trade between Haiti and Dominican Republic is a \$500,000,000 [USD] market.





**Jimaní's border market is one of the largest truck-oriented bi-national markets in the country.**

Jimaní's municipal market is small and subject to move.



Although it plays a major economic role in the city, the bi-national market faces issues of scale, unsafe circulation, and a heavy military presence.



SUPER TURBO

SEPHILO TURBO

TURBO

M



## Socio-economic

### Constraints

Limited educational capacity & facilities  
Public health  
Employment

### Opportunities

Bi-national trade  
Youth population  
Cultural diversity  
Formal grid  
Agricultural lands

# **Urban Systems**









# Urban

## Constraints

Poor circulation  
Sprawl  
Few public spaces  
Access to water & electricity

## Opportunities

Diverse housing typologies  
Municipal Market

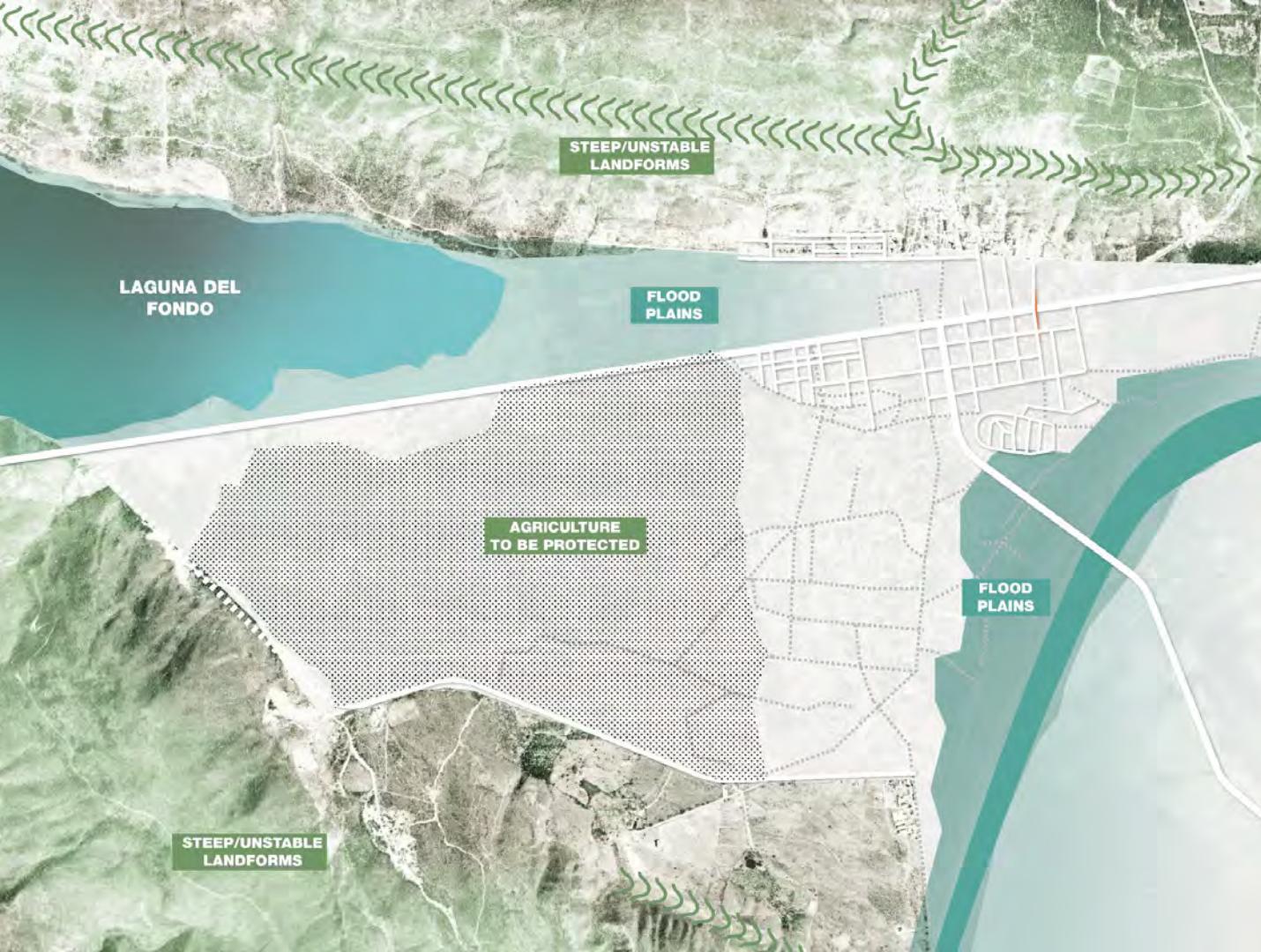
# Constraints

-  Sprawling urban form
-  Floodplains
-  Deforestation
-  Need for economic drivers
-  Capacity and resources
-  Topography

# Opportunities

-  Bi-national market
-  Agricultural lands
-  Natural attractions
-  Siphons
-  Vocal community

# WHERE CAN THE CITY GROW?



The city's complex topography restrains its growth in all directions.

# The Planning Process

Charrette  
Vision for Jimaní<sup>1</sup>  
Goals for Development





Jimaní will be a **vibrant hub** for the region and provide a variety of **cultural** and **economic opportunities and resources** for all communities.

**FOSTERING  
ECONOMIC  
DEVELOPMENT**

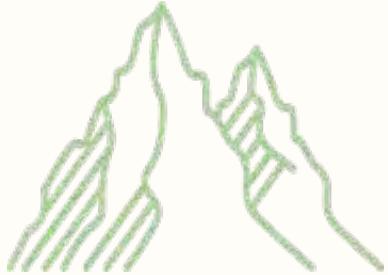


**WEAVING  
COMMUNITIES  
TOGETHER**

**STRENGTHENING  
NATURAL  
SYSTEMS**

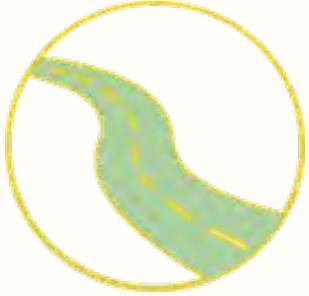


**GUIDING  
URBAN  
GROWTH**



## STRENGTHENING NATURAL SYSTEMS

Jimaní has a rich and complex geography. Bordered by mountains and bodies of water, environmental stewardship for the city will help build resilience against flooding, pollution, and deforestation. Increasing access to clean water and improving outdoor civic spaces will strengthen the community's relationship with nature.



## GUIDING URBAN GROWTH

Jimaní has popular sports facilities, well-maintained streets, and beautiful houses and schools. Organized growth, increased connectivity, and transitional buffers can ensure that parks, streets, schools, safe housing, and public spaces can be used by everyone.



## FOSTERING ECONOMIC DEVELOPMENT

Jimaní's agricultural lands, local businesses, and bi-national market **breathe life into the city**. By **expanding** the bi-national market, **incentivizing** manufacturing and trade, and **providing technical resources** to local residents, Jimaní can become an **attractive investment**.



## WEAVING COMMUNITIES TOGETHER

Jimaní is enriched by its location on the **border**. Residents from the Dominican Republic and Haiti enhance each other's **perspectives** by sharing culture, language, and traditions. Offering new **civic spaces** and improvement current ones can bring people together, bolster community reliance and cohesion, and increase **equitable opportunities** for all.

# The Plan

Evolution of the plan  
System layers  
Detailed zones



## PHASE 1

Our first plan introduced an educational gateway, an industrial hub, and expanded residential zones.



## PHASE 2

The plan evolved to include new circulation around the bi-national market and a transitional buffer along the urban edge.



# PHASE 3

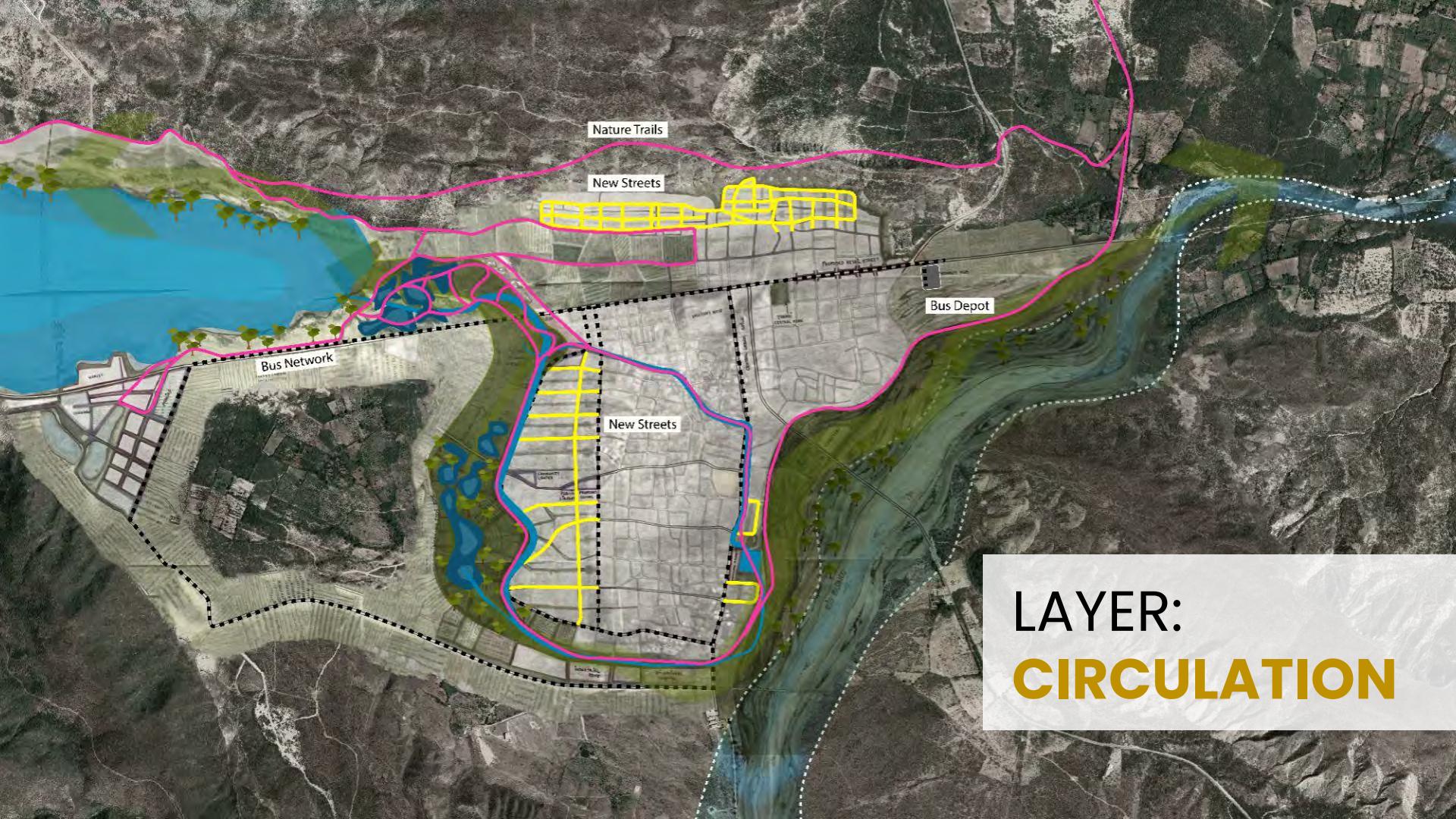
In its final form, the plan takes a layered approach that emphasizes circulation, holding edges, and mixed-use spaces.



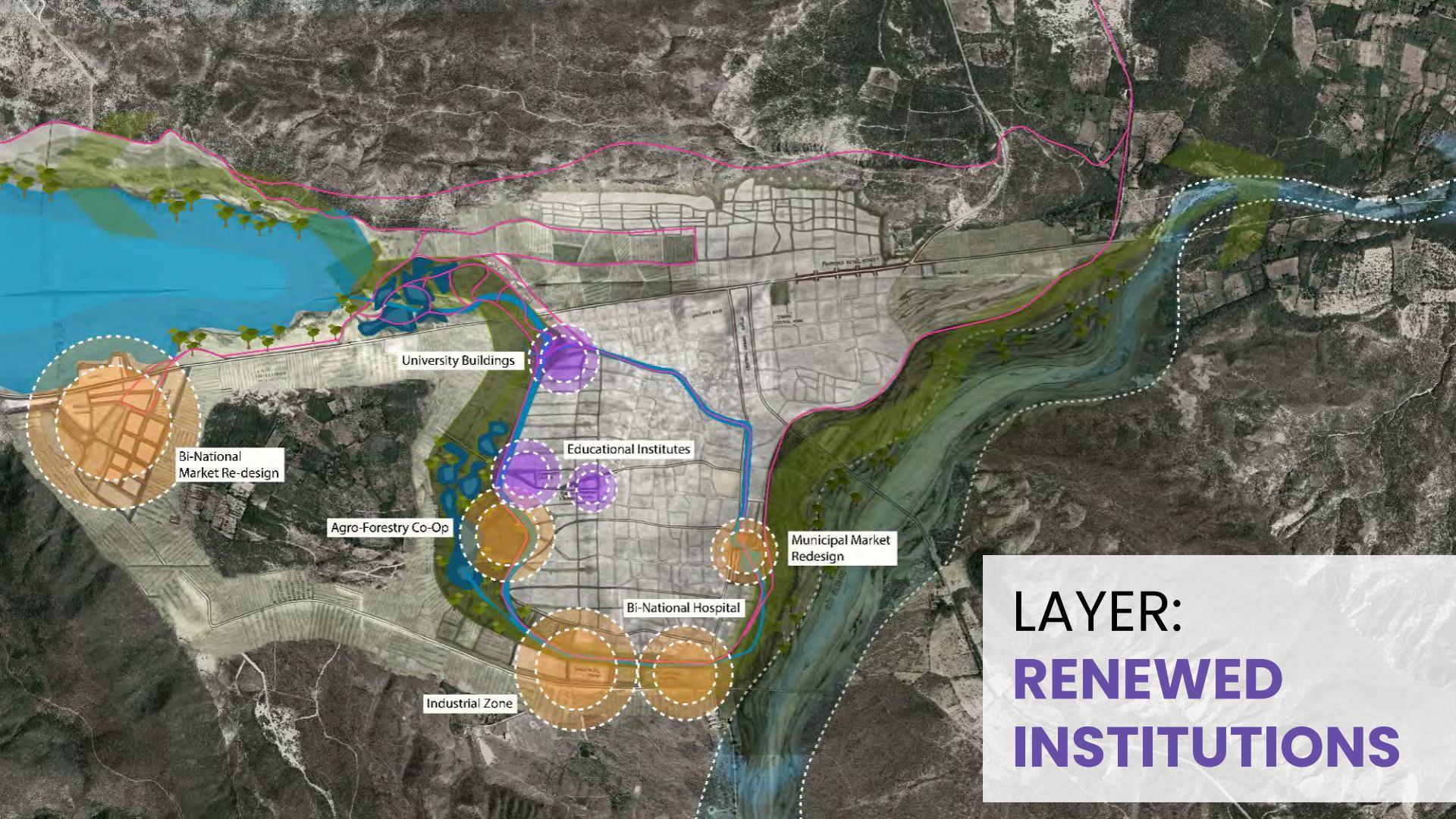
LAYER:  
**NATURAL  
SYSTEMS**



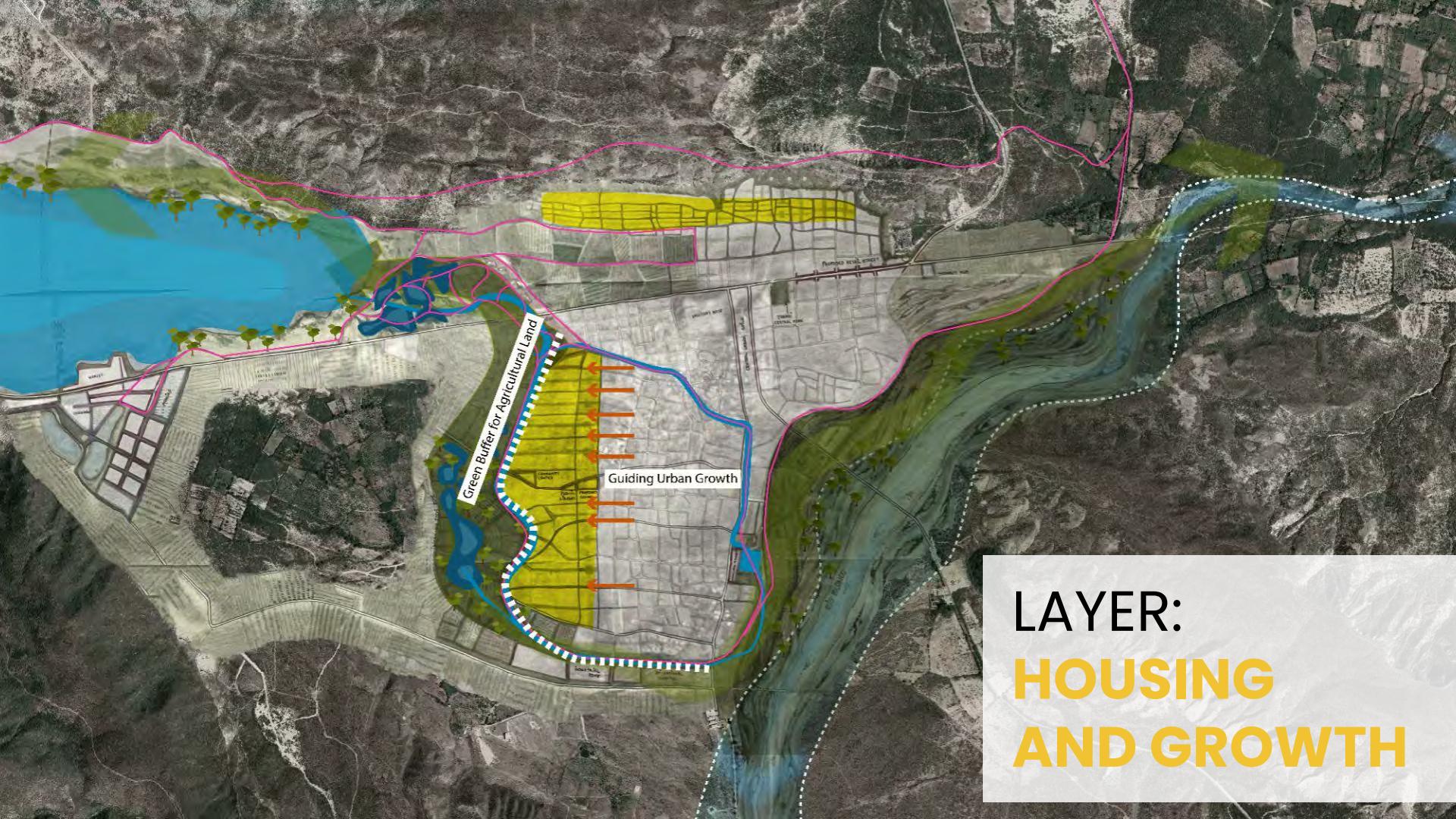
# LAYER: WATER MANAGEMENT



# LAYER: **CIRCULATION**



**LAYER:**  
**RENEWED**  
**INSTITUTIONS**



# LAYER: HOUSING AND GROWTH



**MASTER PLAN**



RIO BLANCO



WESTERN  
EDGE



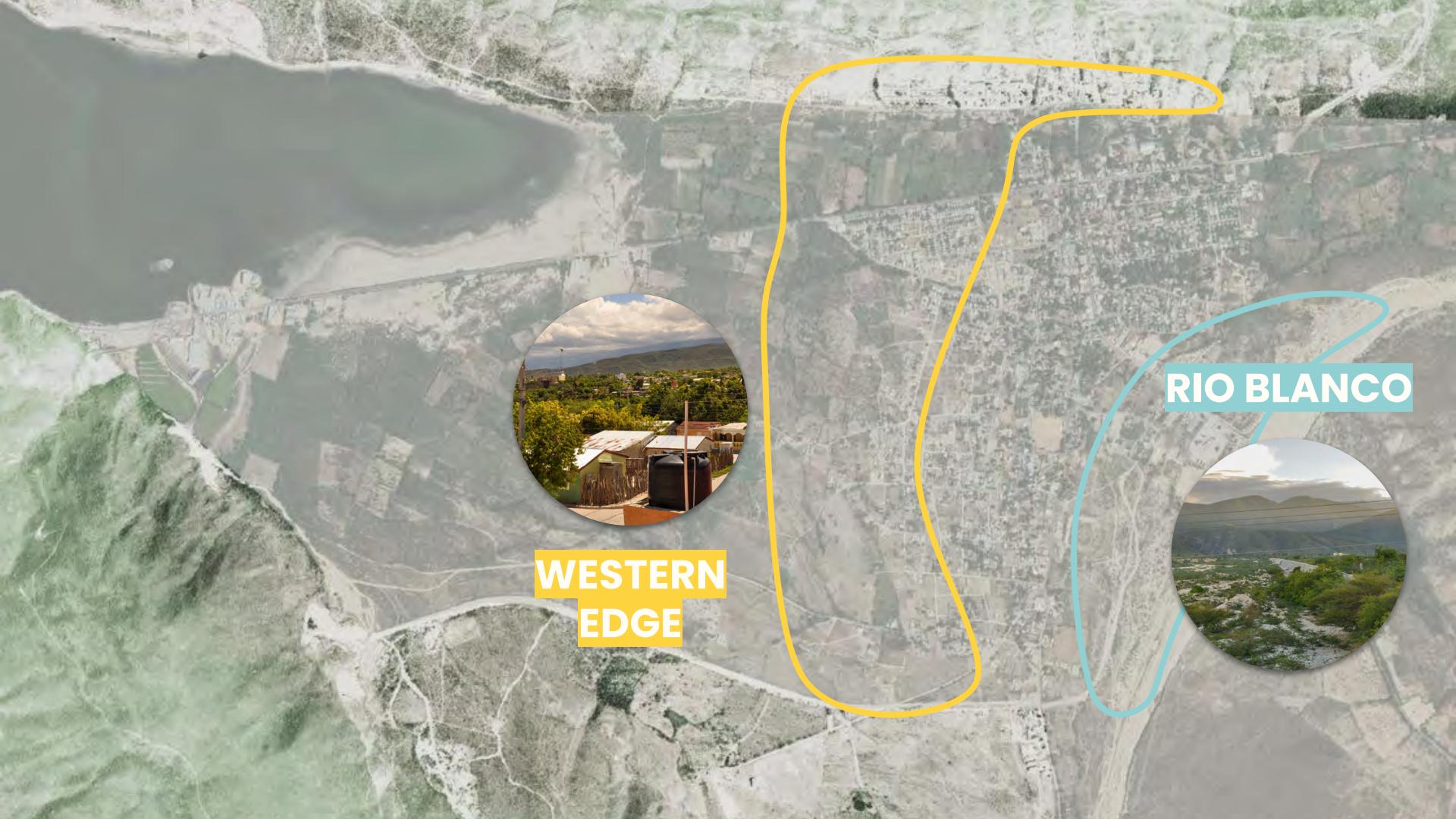
BI-NATIONAL  
MARKET



**RIO BLANCO**

A detailed aerial photograph of a valley. On the left, a large, dark green reservoir or lake is visible, with a narrow strip of land extending into it. Below the reservoir, there are several agricultural fields with distinct rectangular patterns. A winding river, the Rio Blanco, flows through the center of the valley, eventually emptying into the reservoir. To the right, a dense urban area with numerous buildings is nestled among hills. A cyan circle highlights a specific area on the right side of the valley floor, which is shown in a larger, circular inset image below.



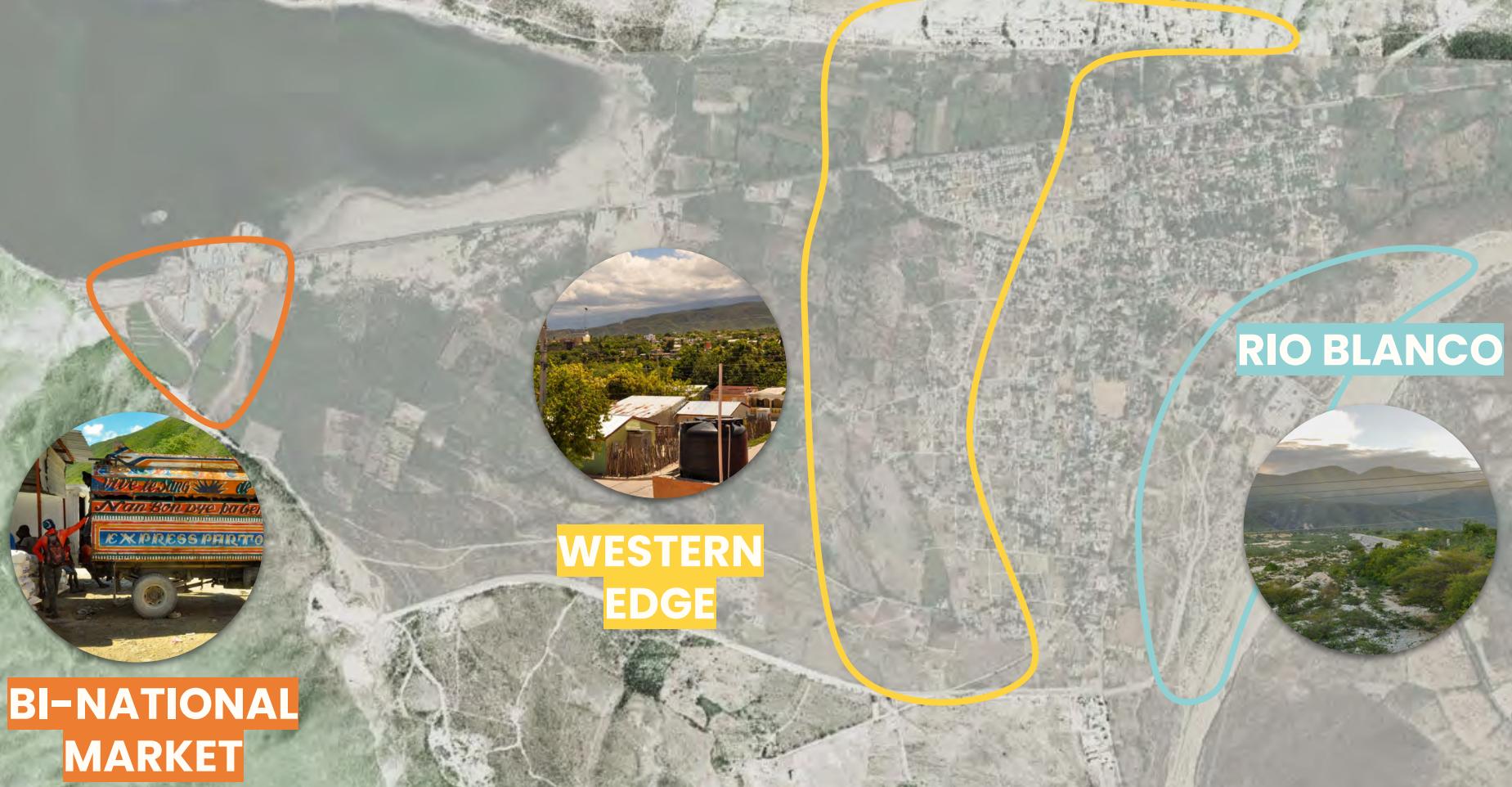


**WESTERN  
EDGE**



**RIO BLANCO**





**BI-NATIONAL  
MARKET**

**WESTERN  
EDGE**

**RIO BLANCO**

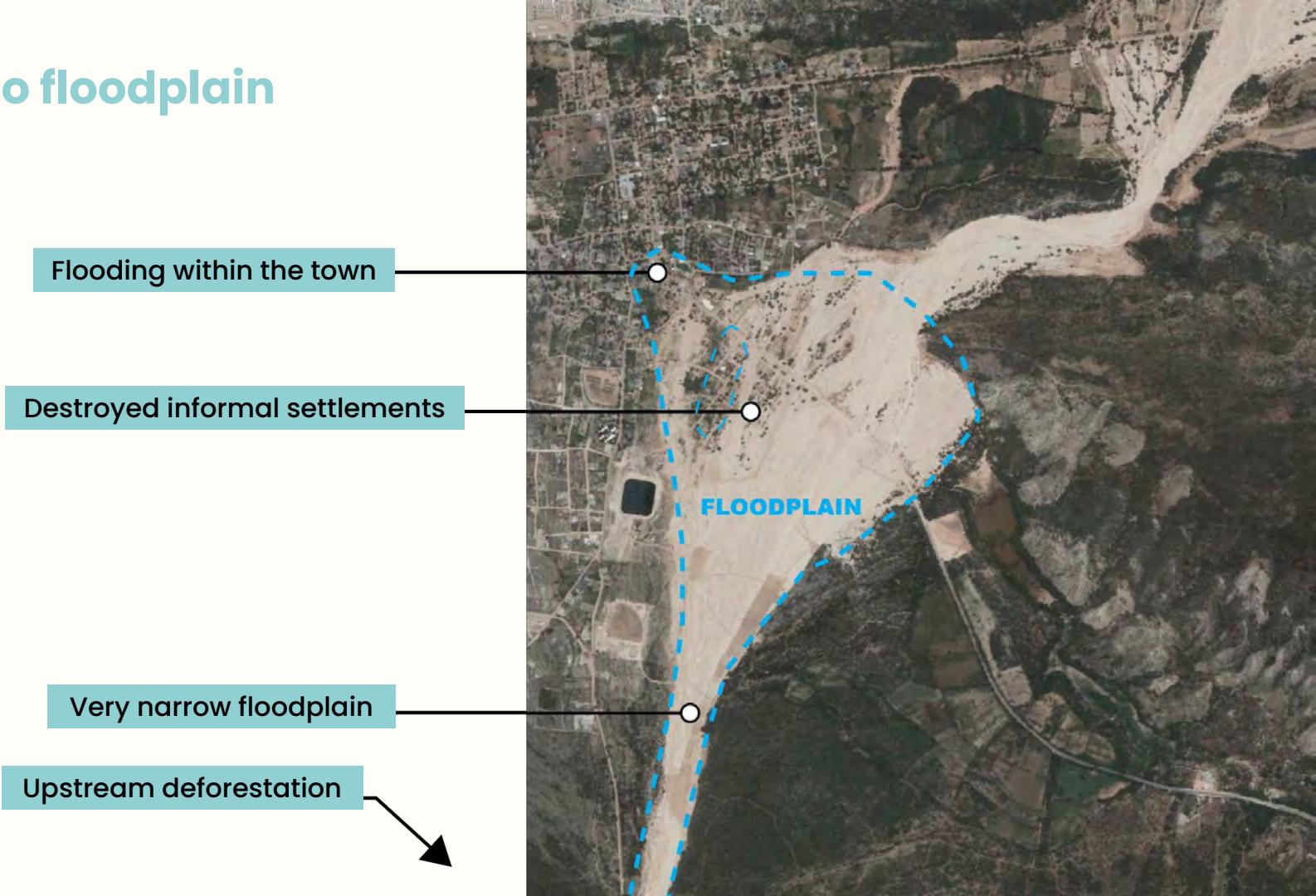
Detailed Zone:  
**Rio Blanco**



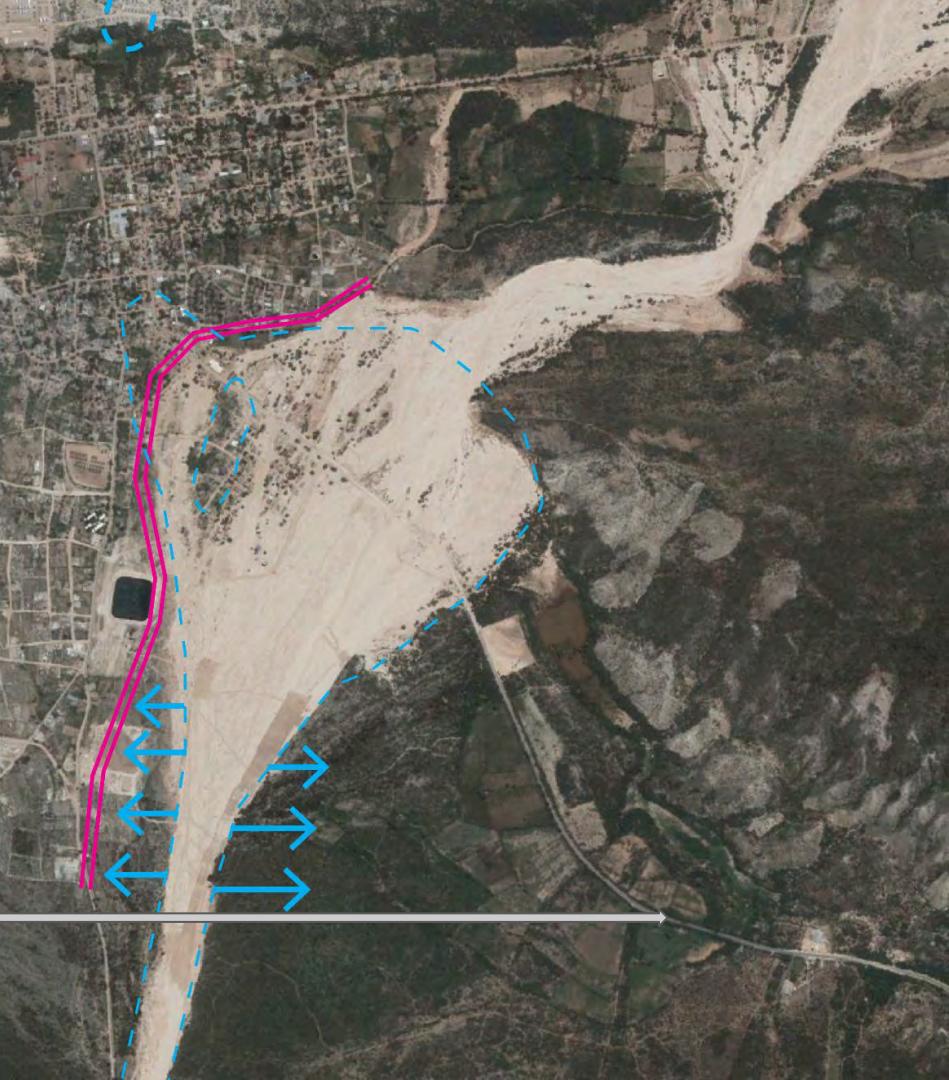
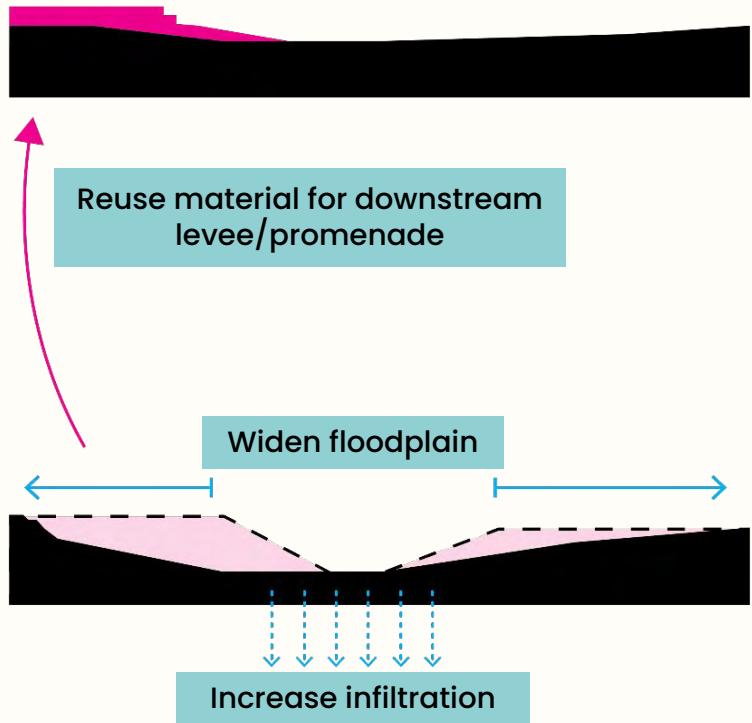
# Building resilience

Reforestation  
New housing units  
Levee park  
Green trail  
Sports facilities  
New Memorial Park  
Cemetery expansion  
Relocated municipal market

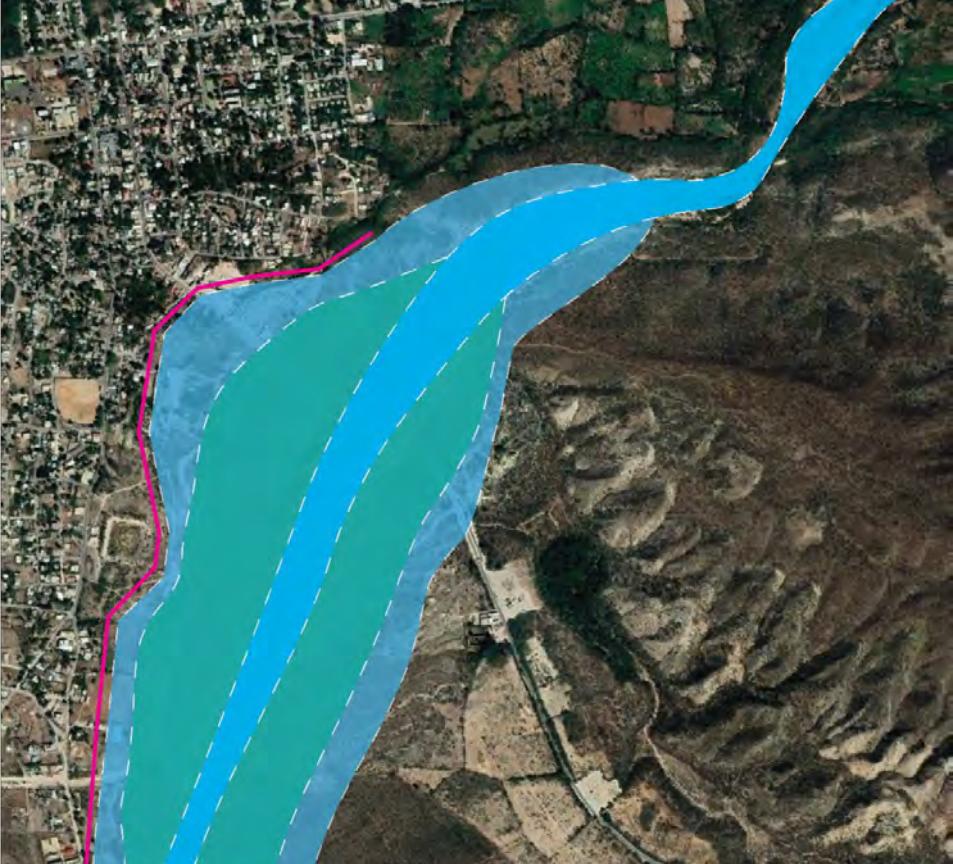
# Rio Blanco floodplain

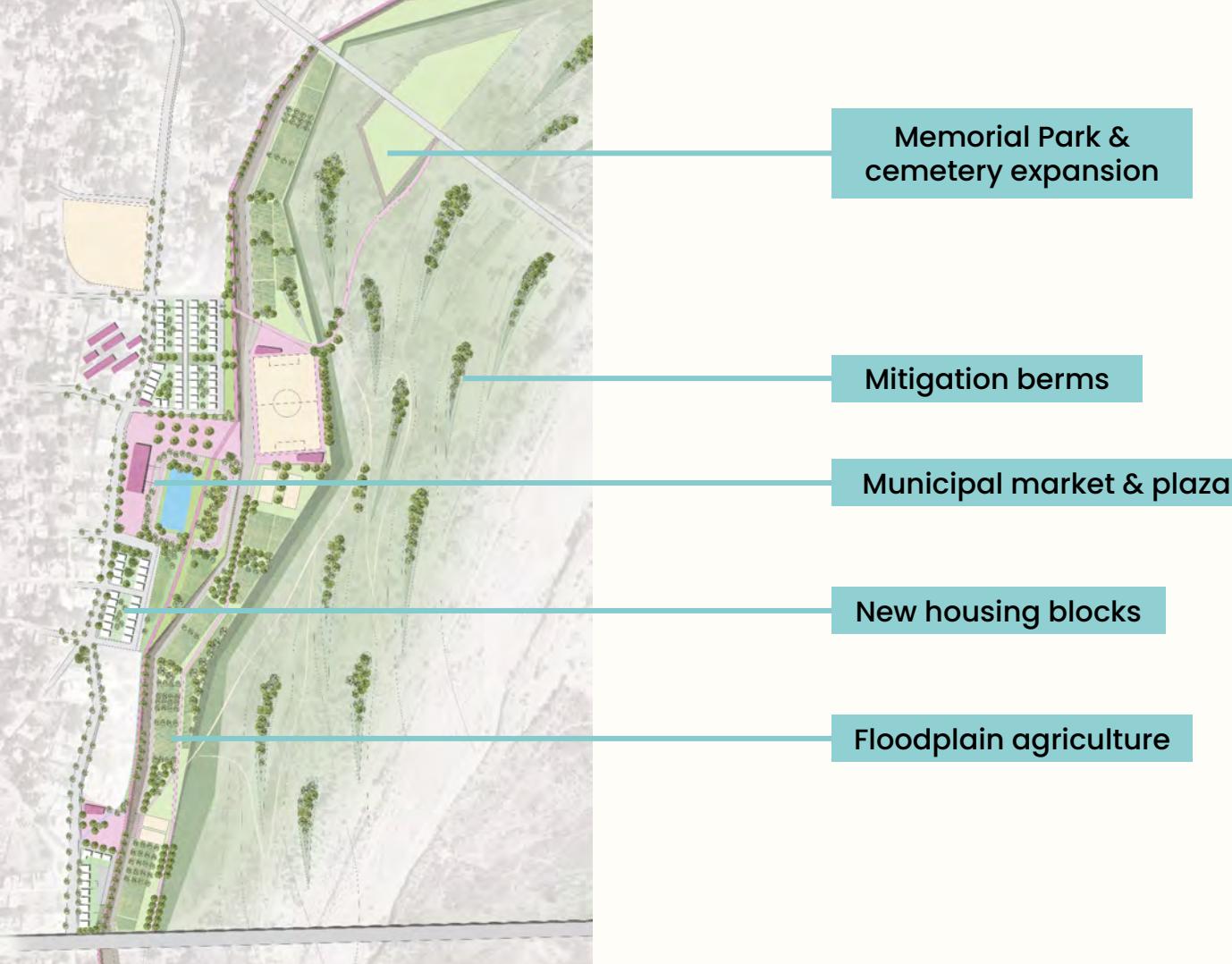


# Widening the floodplain



## Multifaceted flood defense





Memorial Park &  
cemetery expansion

Mitigation berms

Municipal market & plaza

New housing blocks

Floodplain agriculture



## Circulation and housing improvements



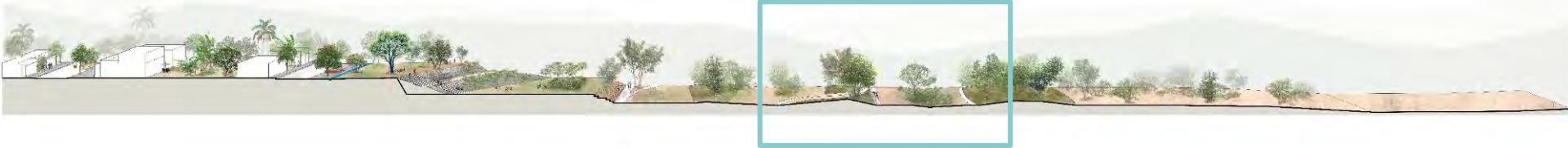


## Levee park & communal spaces





**Reforested  
pedestrian trails**





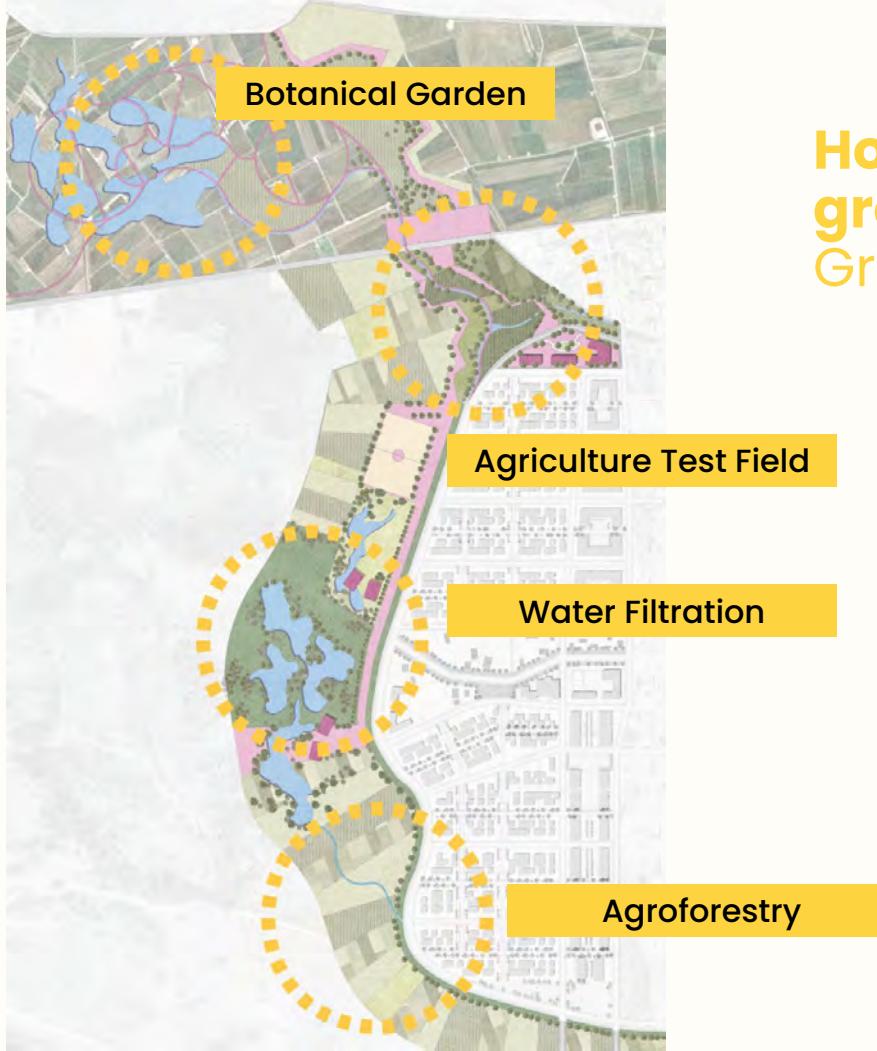


# Guiding growth

Wetland restoration  
Agro-forestry resources and support  
New university  
New public school  
Housing infill  
New modular housing  
Green trails/network



**Holding and guiding  
growth:  
Green boundary**



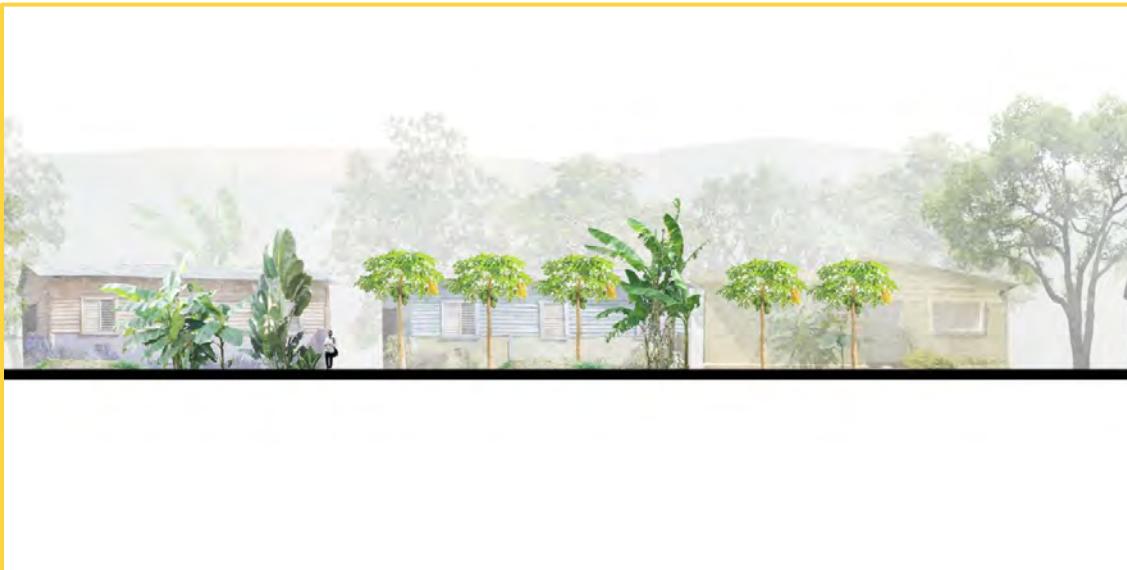
**Holding and guiding  
growth:  
Green boundary**



## Holding and guiding growth: Green boundary



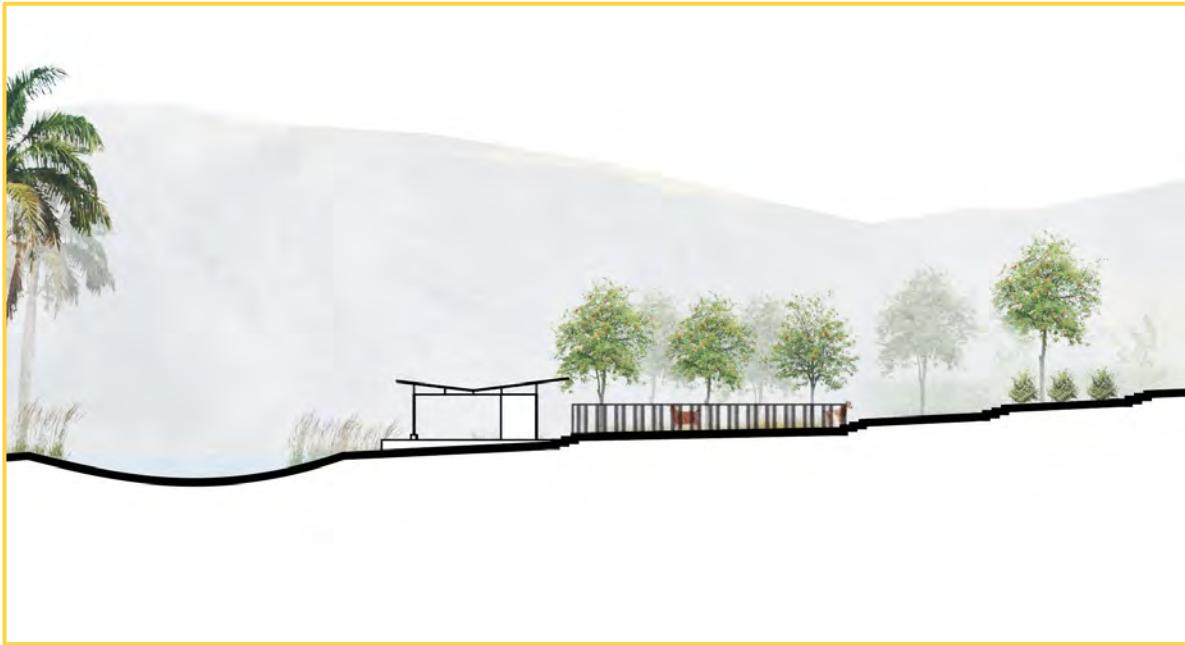
## Holding and guiding growth: Green boundary



Central Community Garden



# Holding and guiding growth: Green boundary



Eco-Lab





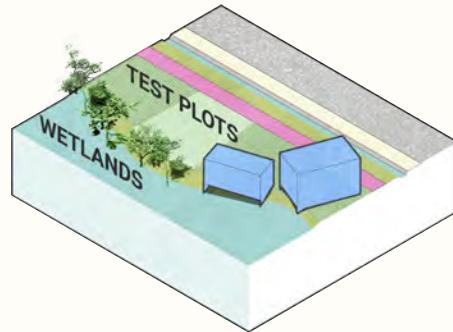
## Holding and guiding growth: Green boundary

Farmland



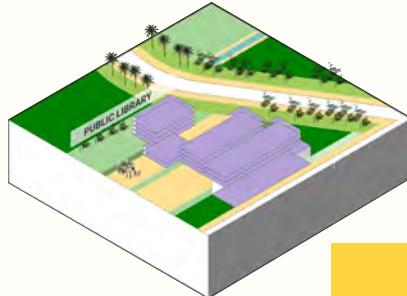


Sports Field

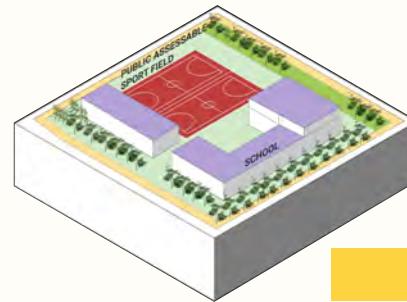


Stewardship

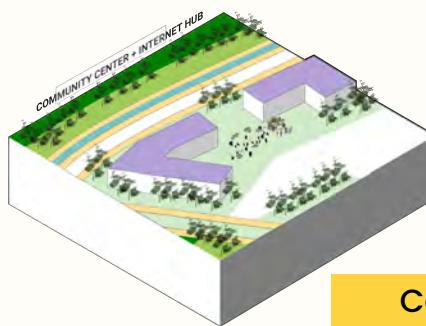
Holding and  
guiding growth:  
Public services



Library



School



Community Center

Holding and  
guiding growth:  
Public services



## Densifying the edge: The New Community

**480**

Lots

**1,680**

People

# Densifying the edge: The New Community



Phase I: Follow the services

# Densifying the edge: The New Community

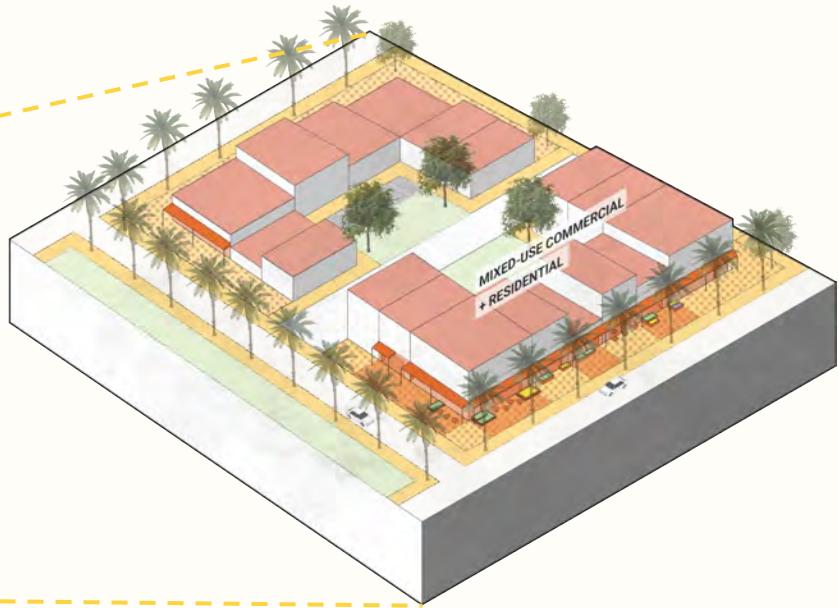


Phase II: Infill

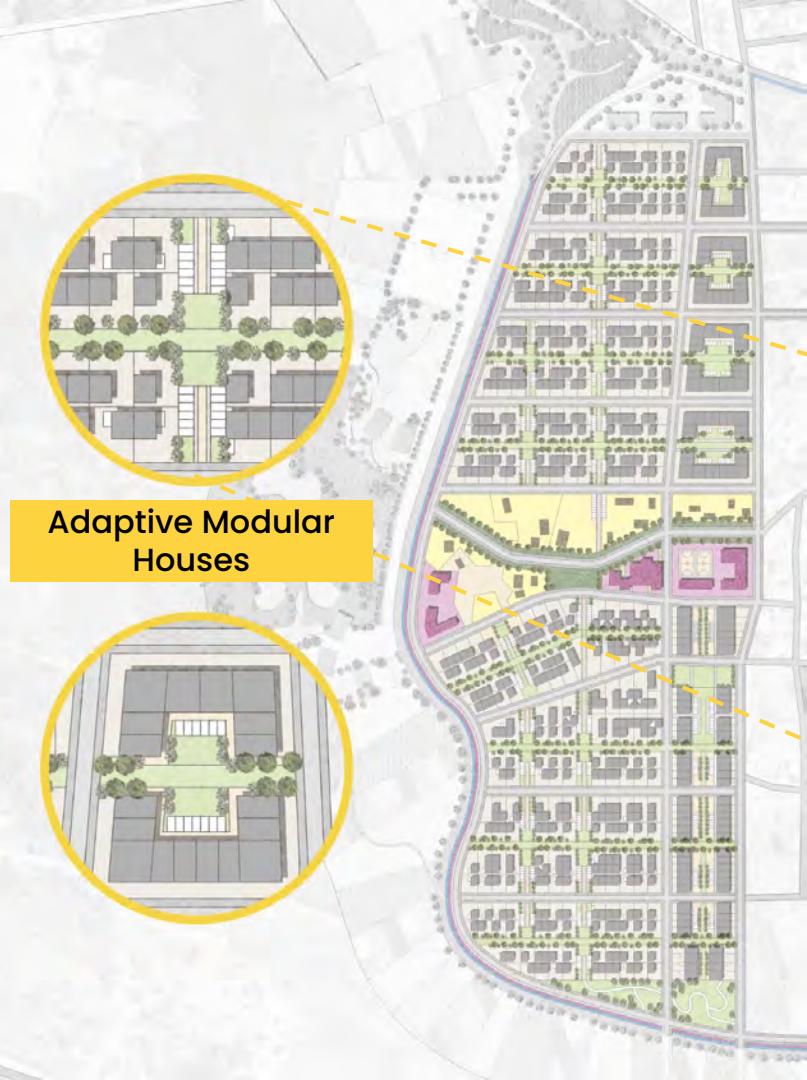
# Densifying the edge: The New Community



Mixed-Use



# Densifying the edge: The New Community



# Within the Western Edge: **Northern Residential**

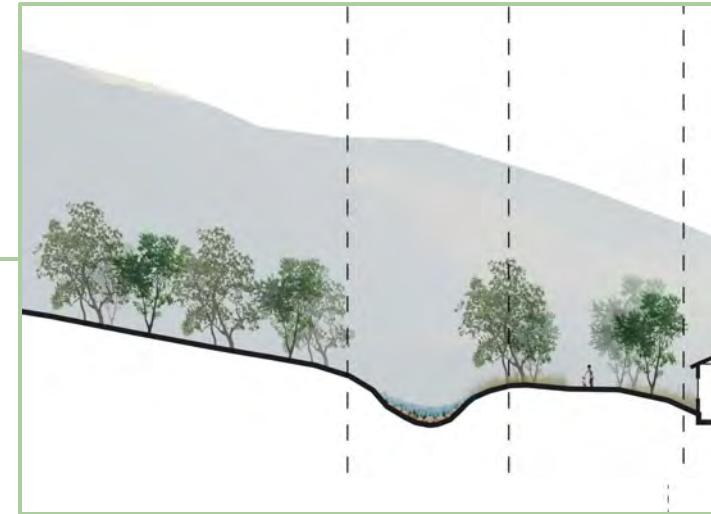


Making connections  
and flood  
management

# Making connections and flood management

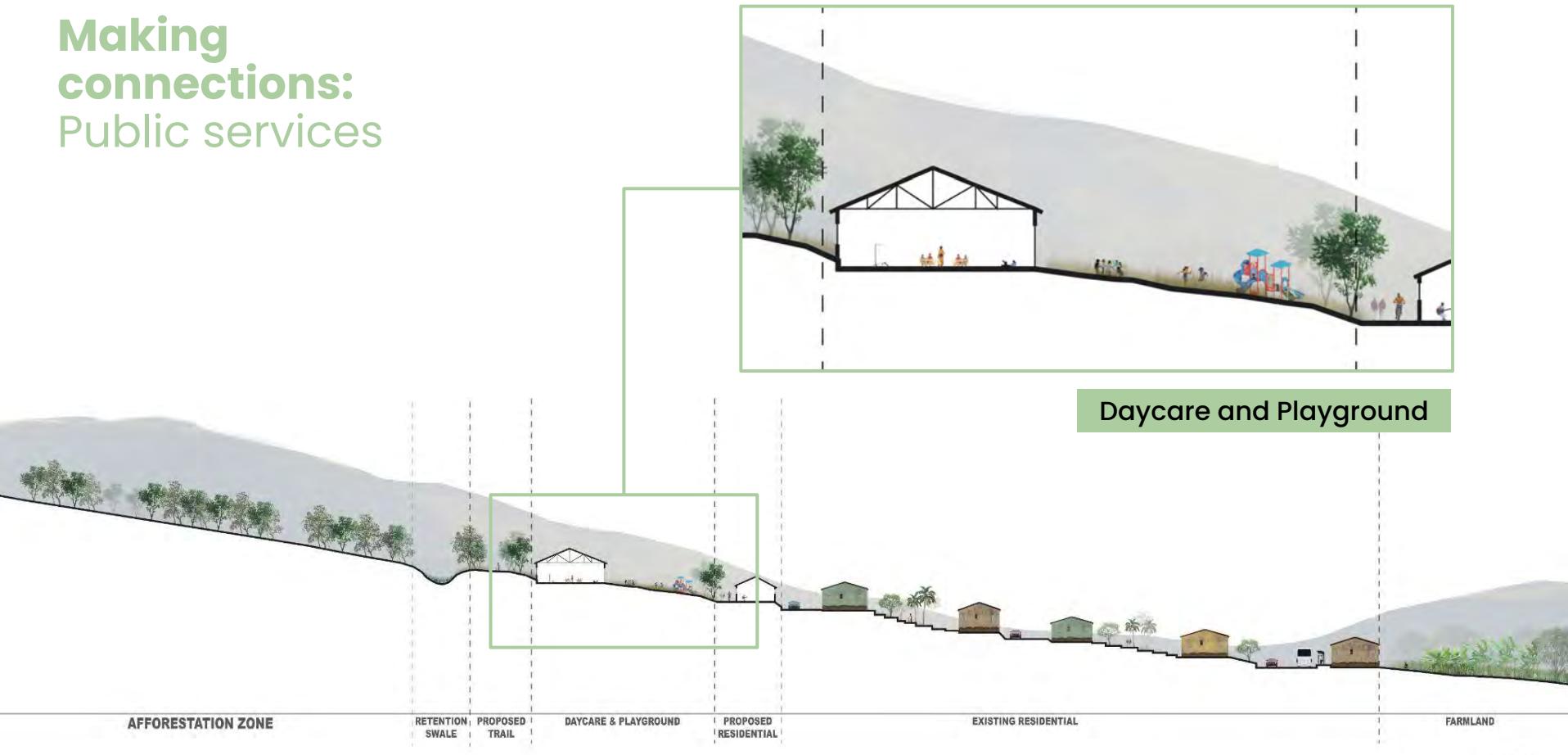


# Flood mitigation: Retention swale and reforestation



Green Trail Network  
and Retention Swale

# Making connections: Public services



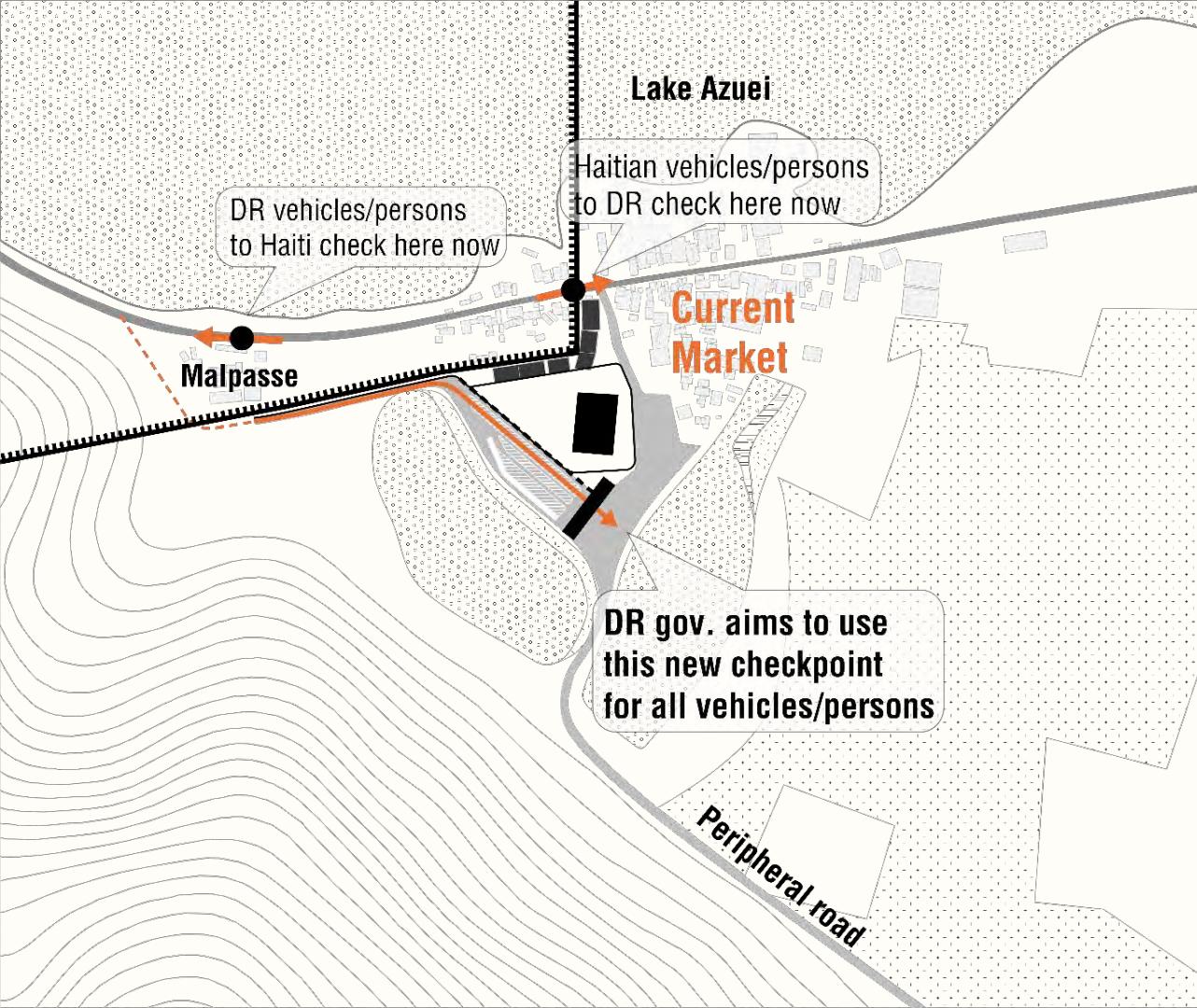
Detailed Zone:  
**Bi-national Market**

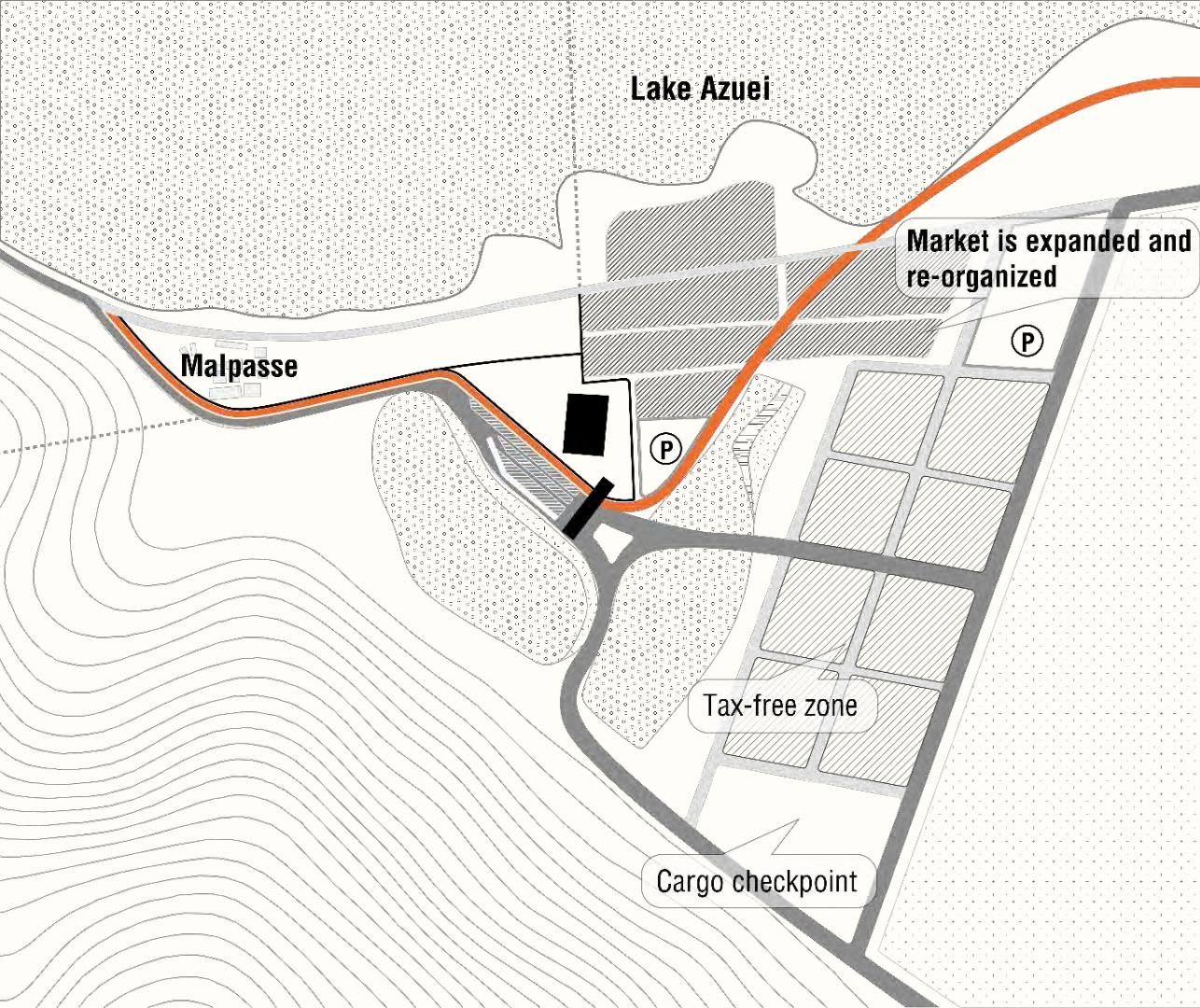


# Bolstering economic activity

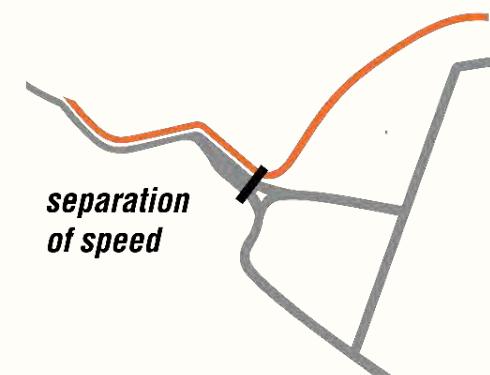
New circulation  
Human-scale  
Logistics and  
warehousing  
Wetland restoration  
Lakefront

# Binational market now: Unfriendliness & mounting fortification





## Figuring out circulation for expanded market



- border
- vehicles/trucks
- small vehicles/pedestrians
- market
- tax-free zone
- lake/wetland
- agriculture



## Human-oriented market space

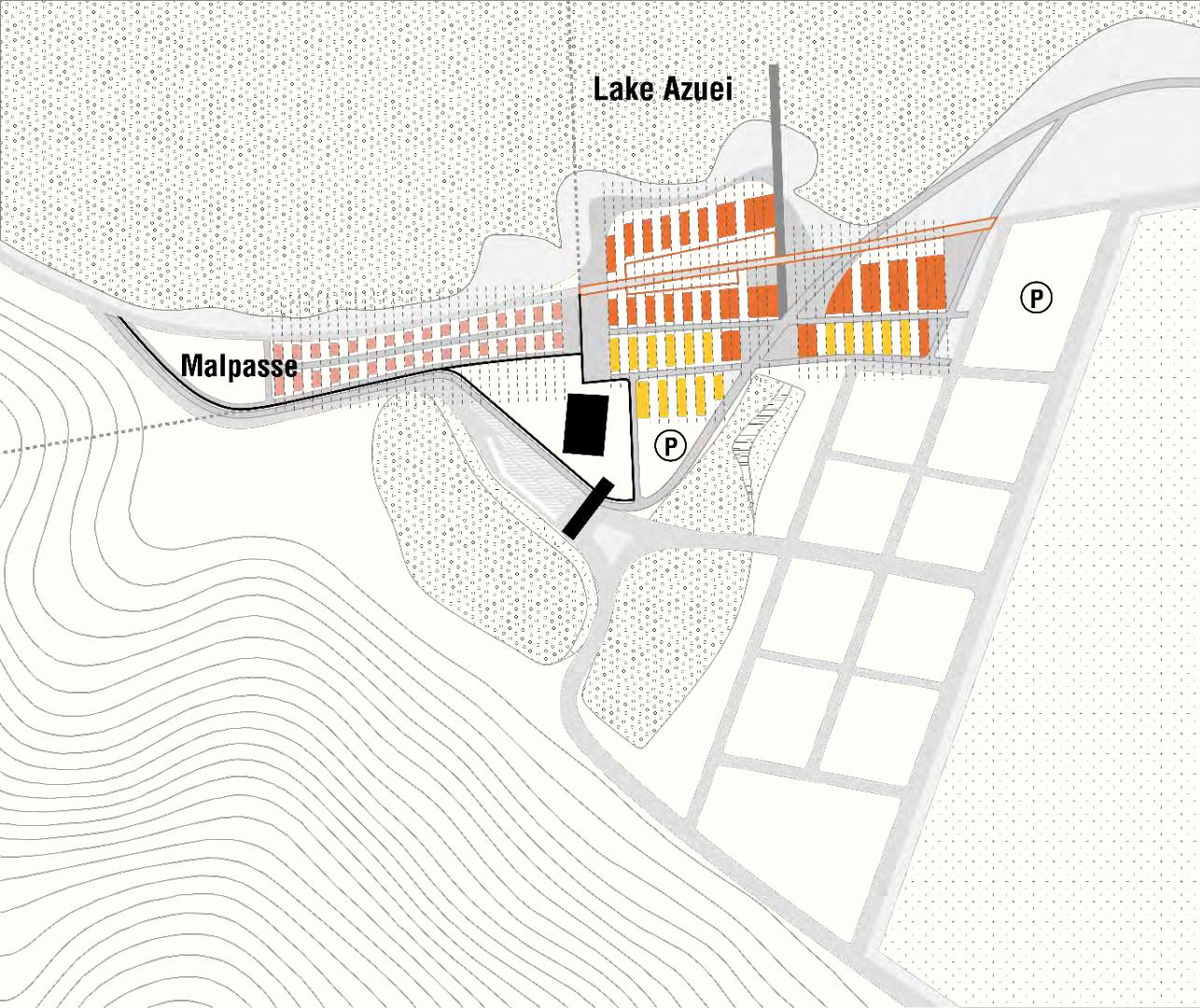
market days



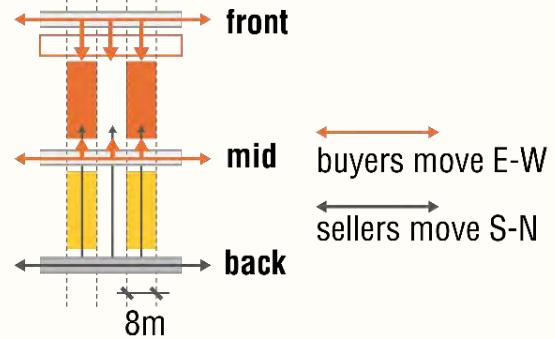
other days



- border
- green space
- public space
- flex street/flex space
- lake/wetland
- agriculture



## Human-oriented market space



- border
  - front of house
  - back of house
  - flex street/flex space
  - Haitian market (vision)
- lake/wetland  
■ agriculture



# Plan

## ECOLOGICAL SYSTEM

- 1 CONSOLIDATE & PRESERVE LAKEFRONT
- 2 UNDERGROUND WETLAND CONNECTION
- 3 WETLAND PROTECTION
- 4 FARMLAND AND BUFFER
- 5 NO-BUILD TERRAIN

## BORDER SECURITY

- 6 BORDER DIVIDE
- 7 DR GOV'S NEW CHECKPOINT
- 8 DR BORDER MILITARY FACILITY
- 9 MALPASSE: HAITI'S BORDER CHECKPOINT
- 10 BORDER CARGO INSPECTION

## BINATIONAL MARKET

- 11 WAREHOUSING
- 12 WASTE MANAGEMENT FACILITIES
- 13 TAX-FREE ZONE
- 14 HUMAN-SCALE MARKET & FLEX STREET
- 15 MARKET BACK-OF-HOUSE
- 16 HAITIAN-SIDE MARKET (VISIONARY)



The background of the slide features a wide-angle photograph of a tropical landscape. In the foreground, there's a lush green field with some low-lying vegetation and a few palm trees. Beyond the field is a calm body of water, possibly a lake or a wide river. In the middle ground, there are several layers of mountains covered in dense green forests. The sky above is filled with large, billowing clouds that are illuminated from behind by the sun, giving them a golden and white glow.

Jimaní will be a **vibrant hub** for  
the region and provide a  
variety of **cultural** and  
**economic opportunities and**  
**resources** for all communities.

The background image shows a wide landscape under a blue sky with scattered white and grey clouds. In the distance, there are several mountain ranges. A dry, rocky riverbed or path cuts through the foreground. The overall scene is natural and somewhat arid.

# STRENGTHENING NATURAL SYSTEMS

# GUIDING URBAN GROWTH



# FOSTERING ECONOMIC DEVELOPMENT



# WEAVING COMMUNITIES TOGETHER



# JIM ANÍ THANK YOU!

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