

Integrated Spatial Planning for Resilient and Sustainable Development

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Territorial planning for green, integrated urban sustainable development in the Asia-Pacific region

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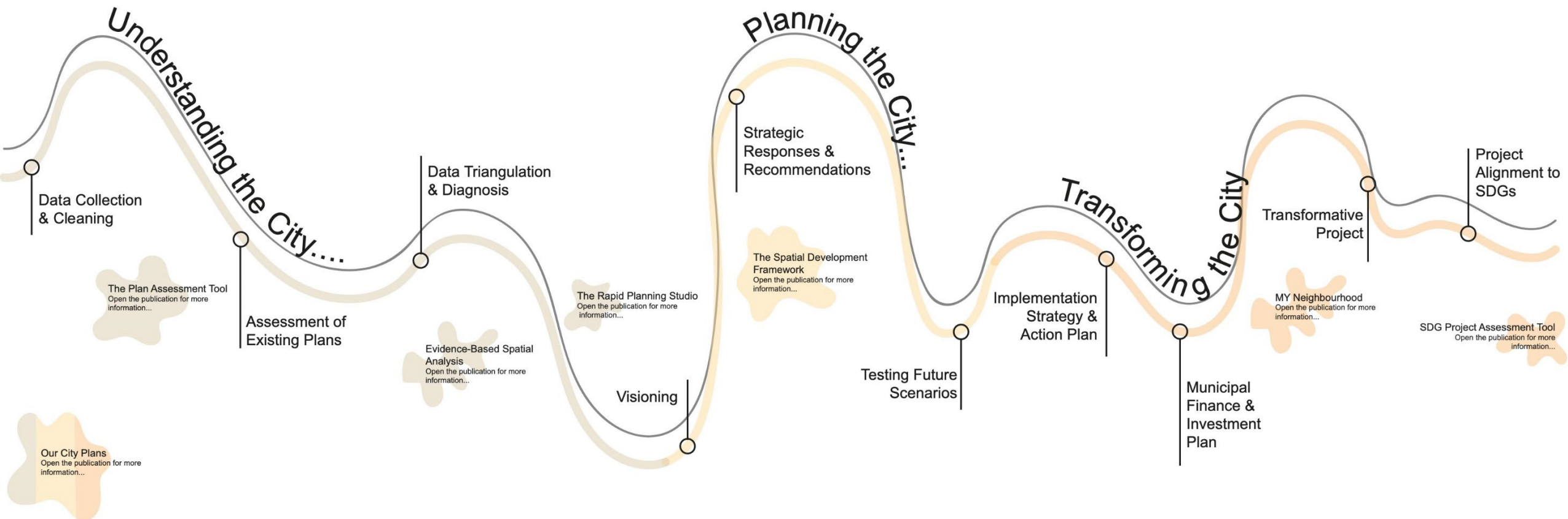


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 - I. Conakry, Guinea: Balancing the Territorial Development in Great Conakry
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UN-Habitat's Integrated Spatial Planning Process

Understanding, Planning & Transforming



The UN-Habitat has developed a series of steps and tools that together enables to respond to the growing demand from cities and regions to find transformative solutions to complex challenges.

Case Study: Balancing the Territorial Development in Great Conakry

Population: 10,5 M inh.

Urban population : 37% (World urban pop. 53%)

Conakry (capital): 1,7 M inh.

Greater Conakry ~ 3 M inh. (30% of the total)

5 cities with 100 000 to 250 000 inh.

15 cities with 20 000 to 100 000 inh.

Reasons



Job opportunities



Infrastructures

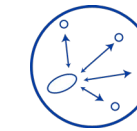


Public services



More investments

Fulfil the Vision Greater Conakry 2040



Control/reverse the migratory process



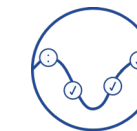
Control urbanization and sprawl



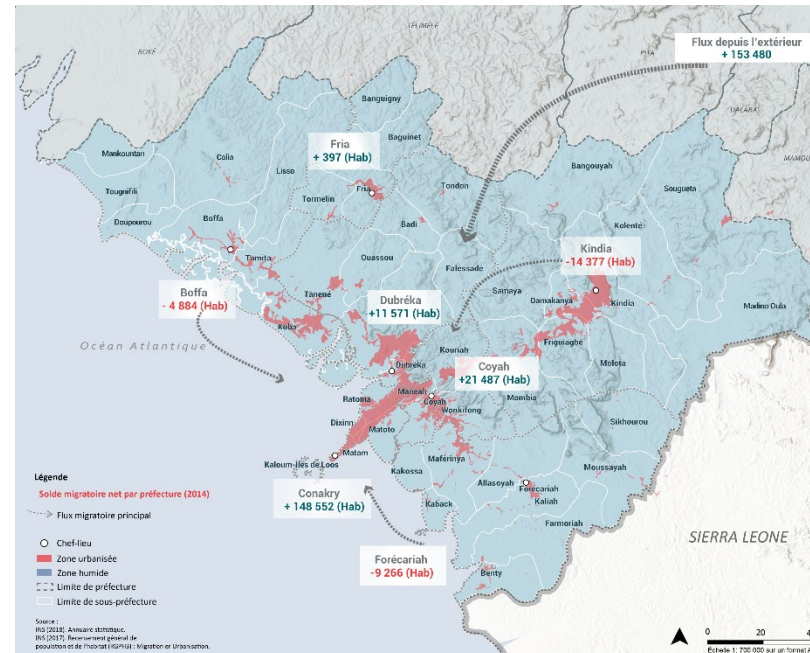
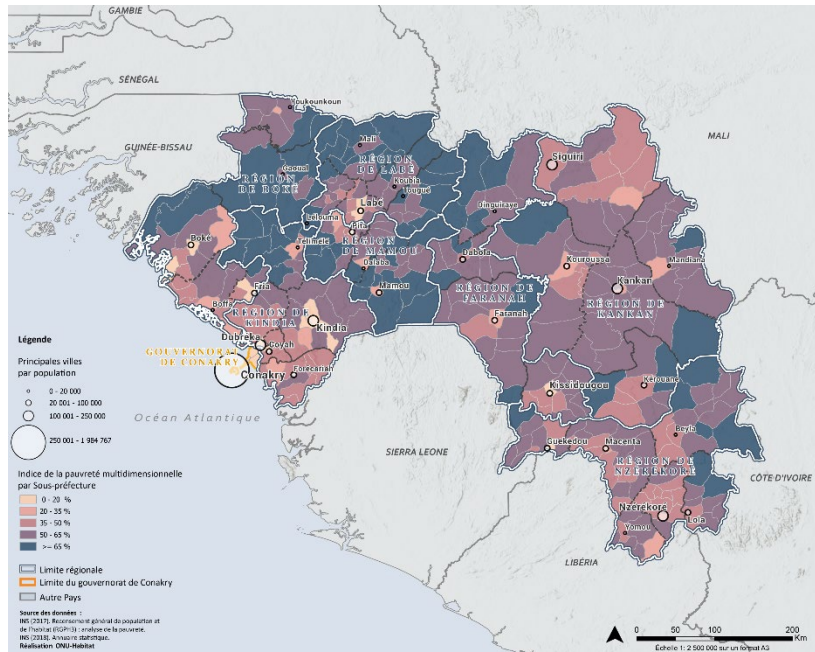
Preserve the environment



Ensure a sustainable socio-economic future



Provide a feasible roadmap for implementation

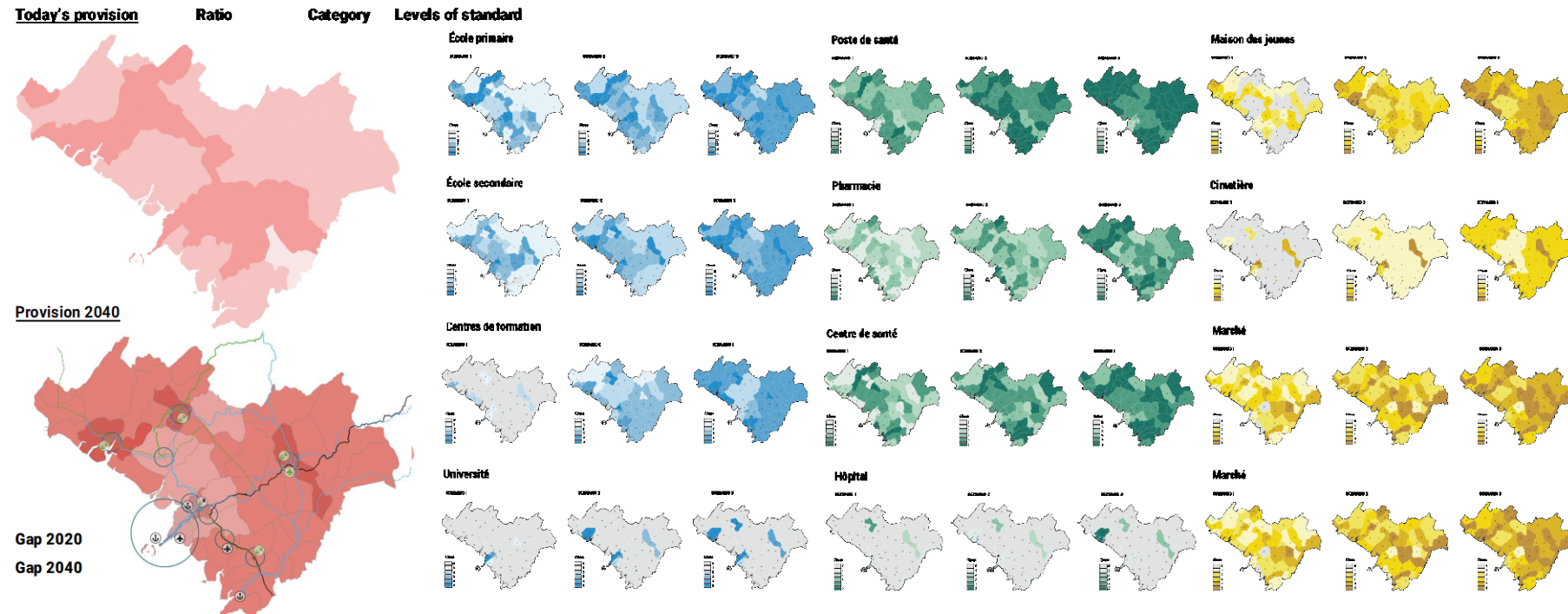
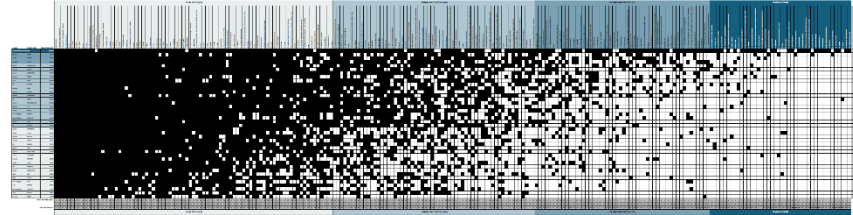


Balancing the Territorial Development in Great Conakry

SDF – Spatial Development Framework (Matrix of Function)

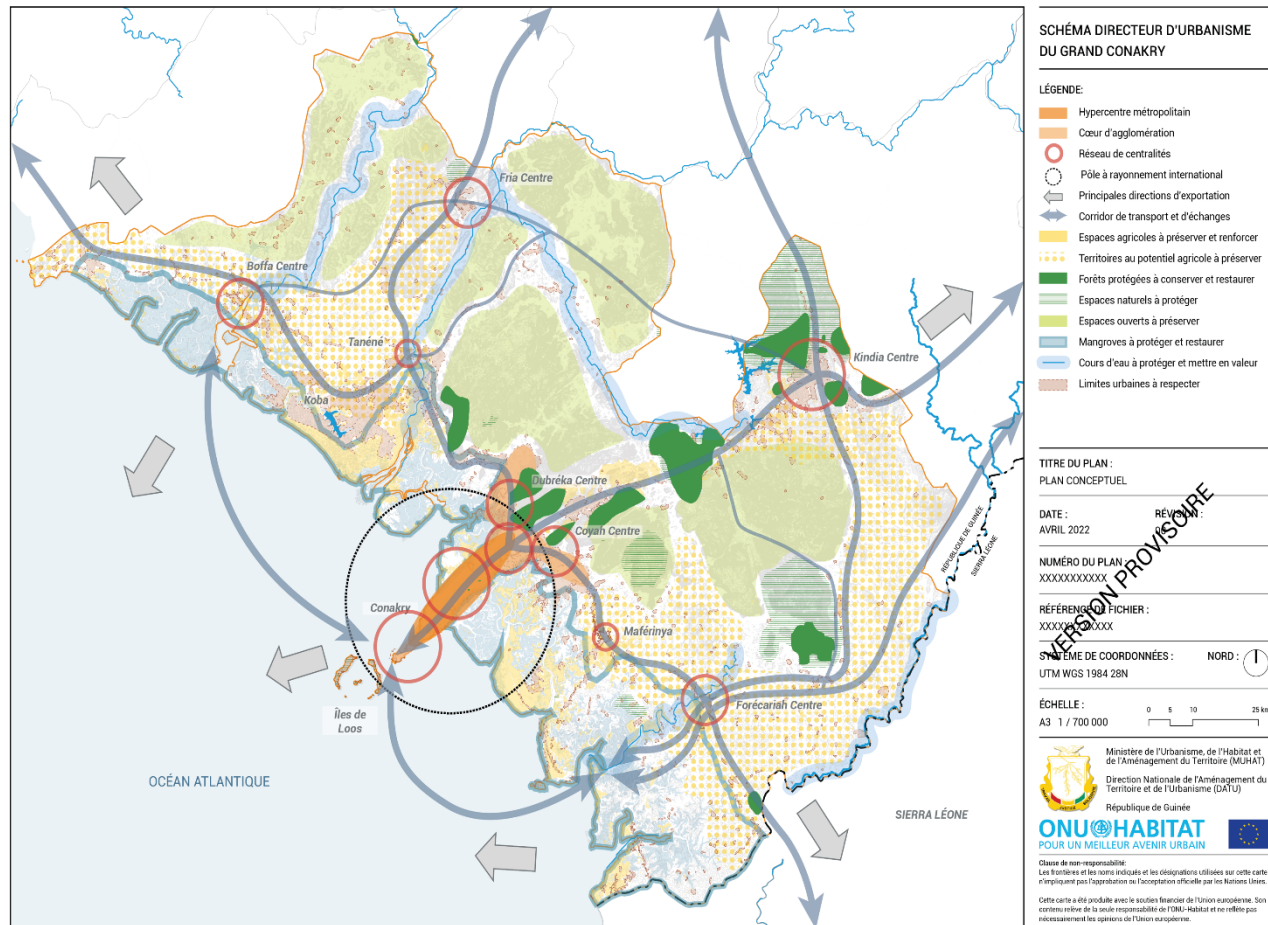
Regional planning to create a balanced system of intermediary cities in a capital region

Level of social services and infrastructure provision
by commune



Balancing the Territorial Development in Great Conakry

Chosen Scenario: Compact City-region



More ambitious projects and investments

Balanced investment in the metropolis

Improved polycentric region

Sprawl controlled in the metropolis (intensification)

Economic enhancement of intermediary cities

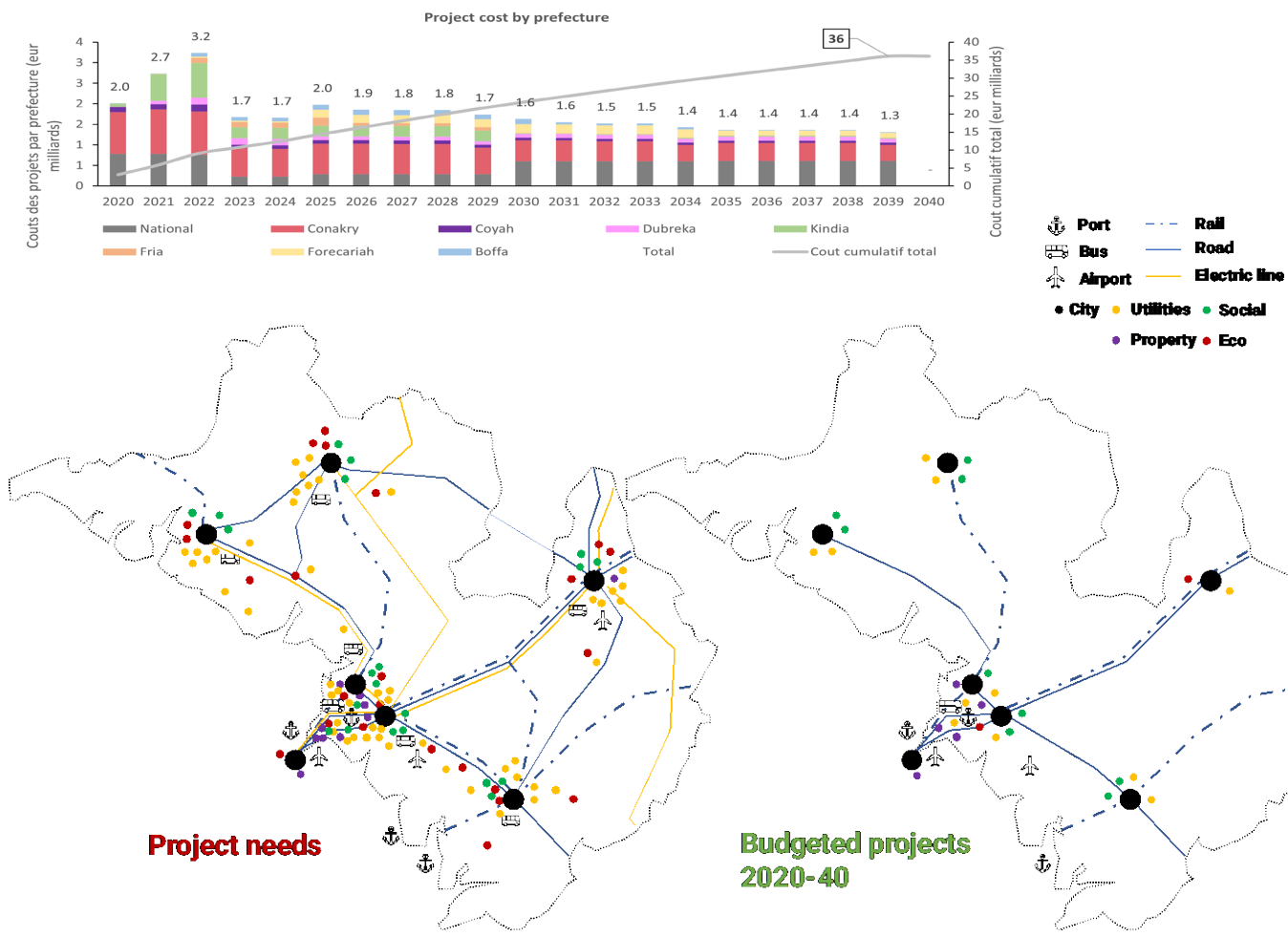
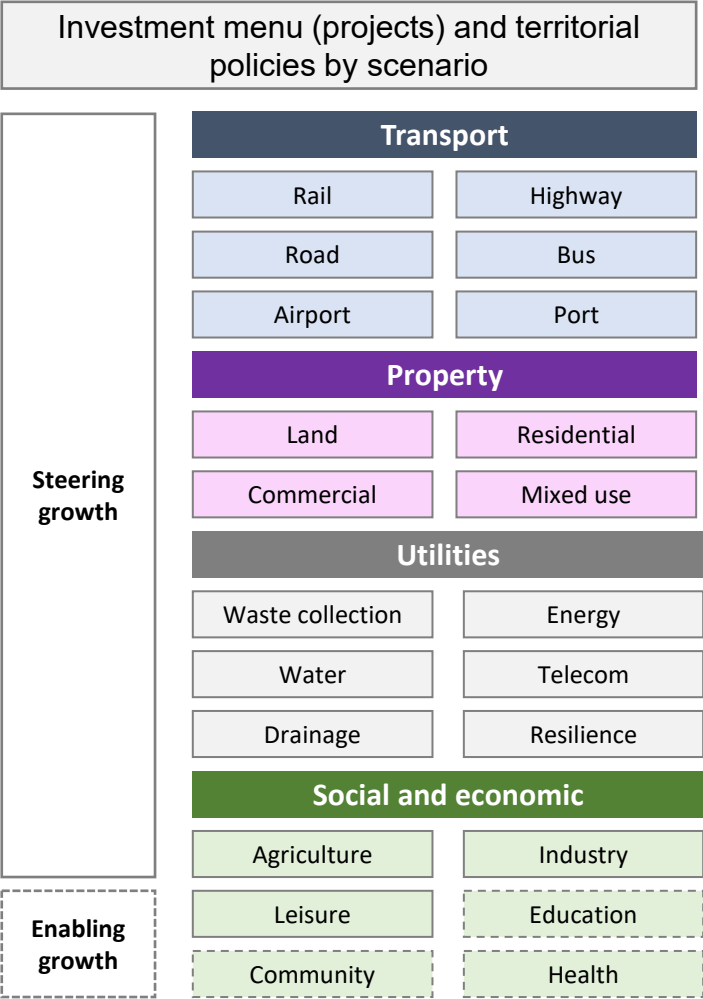
Stronger territorial policies

Environment preserved and restored

Better social services provision

Balancing the Territorial Development in Great Conakry

Capital Investment Planning: Prioritisation of Investments

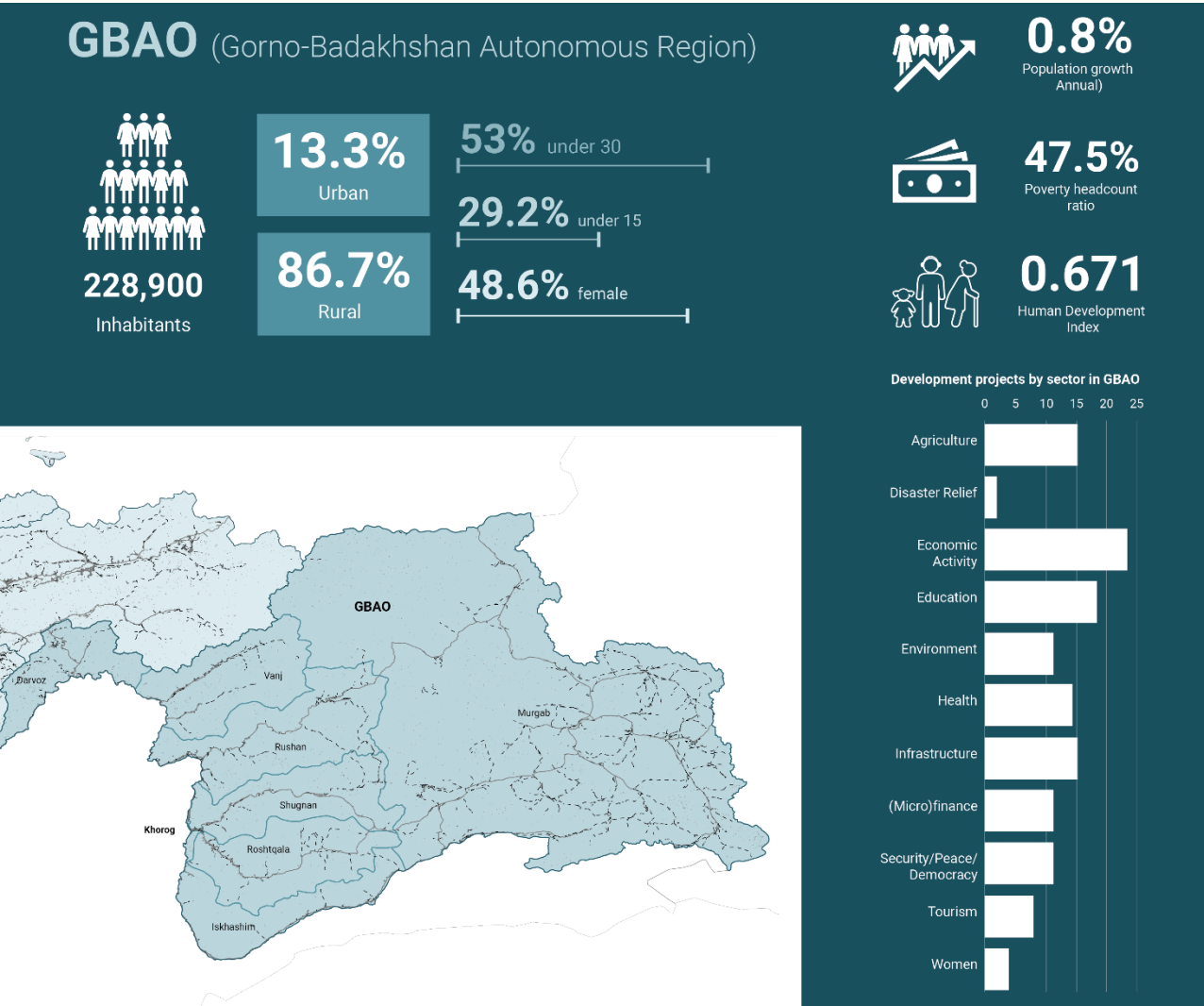


Achievements

-
- The image displays three maps of Sierra Leone, each representing a different urban development scheme for the Greater Conakry area. The maps are titled 'SCHEMA DIRECTEUR D'URBANISME DU GRAND CONAKRY' and are dated April 2022. They include legends, scales, and logos for the Ministry of Urban Planning and Housing, UN-Habitat, and the Government of Sierra Leone. The maps show various urban centers, roads, and infrastructure projects.
- Map 1 (Left):** Shows the Greater Conakry area with various urban centers and infrastructure. The legend includes categories for urban centers, roads, and infrastructure. The scale is 1:250,000.
- Map 2 (Middle):** Shows the Greater Conakry area with various urban centers and infrastructure. The legend includes categories for urban centers, roads, and infrastructure. The scale is 1:250,000.
- Map 3 (Right):** Shows the Greater Conakry area with various urban centers and infrastructure. The legend includes categories for urban centers, roads, and infrastructure. The scale is 1:250,000.

Case Study: Integrated Spatial Planning in Mountain Settlements

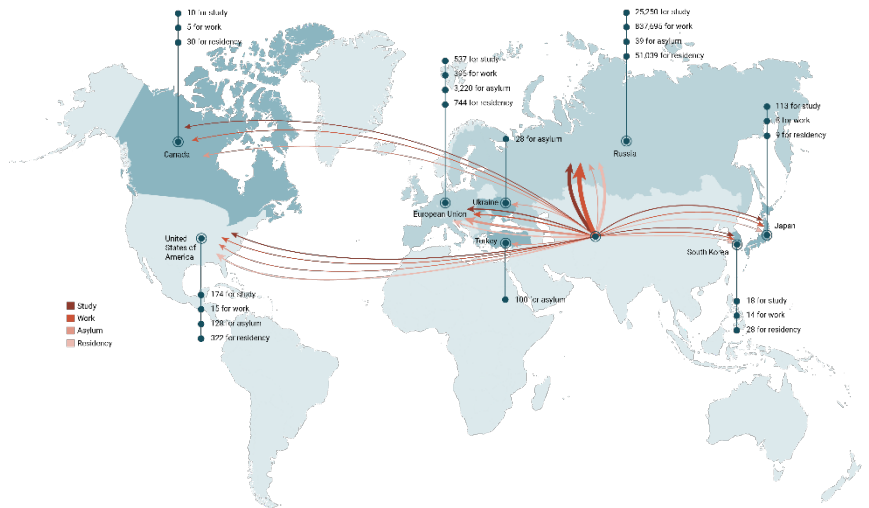
Gorno-Badakhshan Autonomous Region (GBAO), Tajikistan



Integrated Spatial Planning in Mountain Settlements

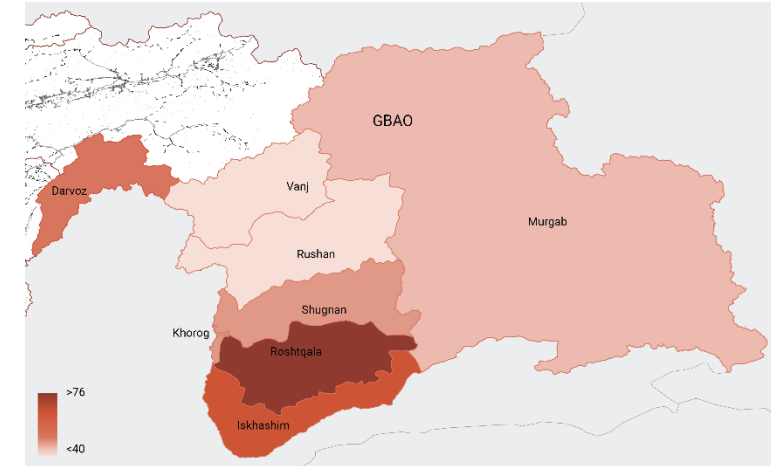
Challenges

- **Poverty** & unemployment due to lack of economic opportunities
- Increased **migration** and emigration due to disasters and unemployment
- Political **instability** and refugees (Proximity to Afghanistan)
- Lack of unified **governance** at national, regional and city scales
- **Poor quality of infrastructure** due to lack of maintenance (water, sewage, roads)
- Limited regional **connectivity** due to topography and environmental hazards
- **Land scarcity** and lack of construction management
- Increased number and unpredictability of **environmental hazards**
- **Food insecurity** due to lack of production and heavy reliance on external sources

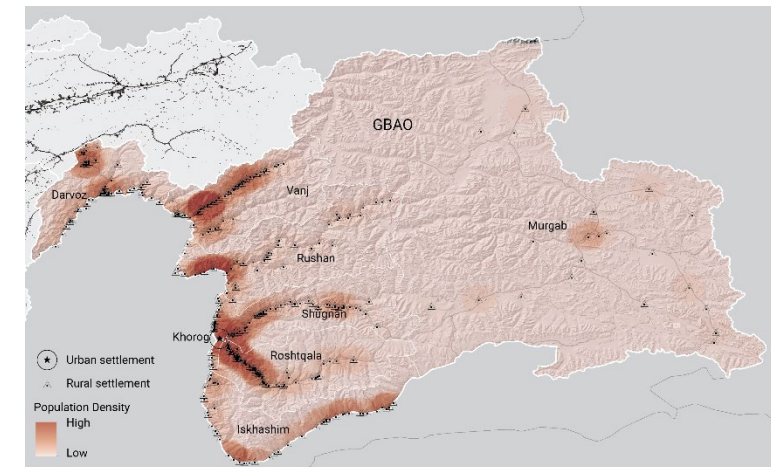


Yearly emigration from Tajikistan

Poverty distribution



Population density



Integrated Spatial Planning in Mountain Settlements

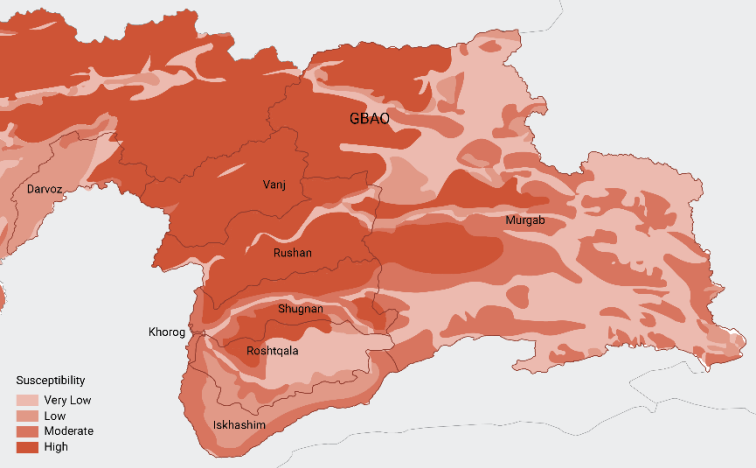
Responses – National & Regional (policy) level

- Diversify economic opportunities
- Enhance hosting capacity
- Revise legislation to adopt climate change mitigation and adaptation measures
- Improve utility infrastructure network
- Improve regional connectivity by hazard mitigation
- Limit urban expansion and revise building codes
- Enhance small scale farming and urban agriculture

Topography



Avalanche susceptibility

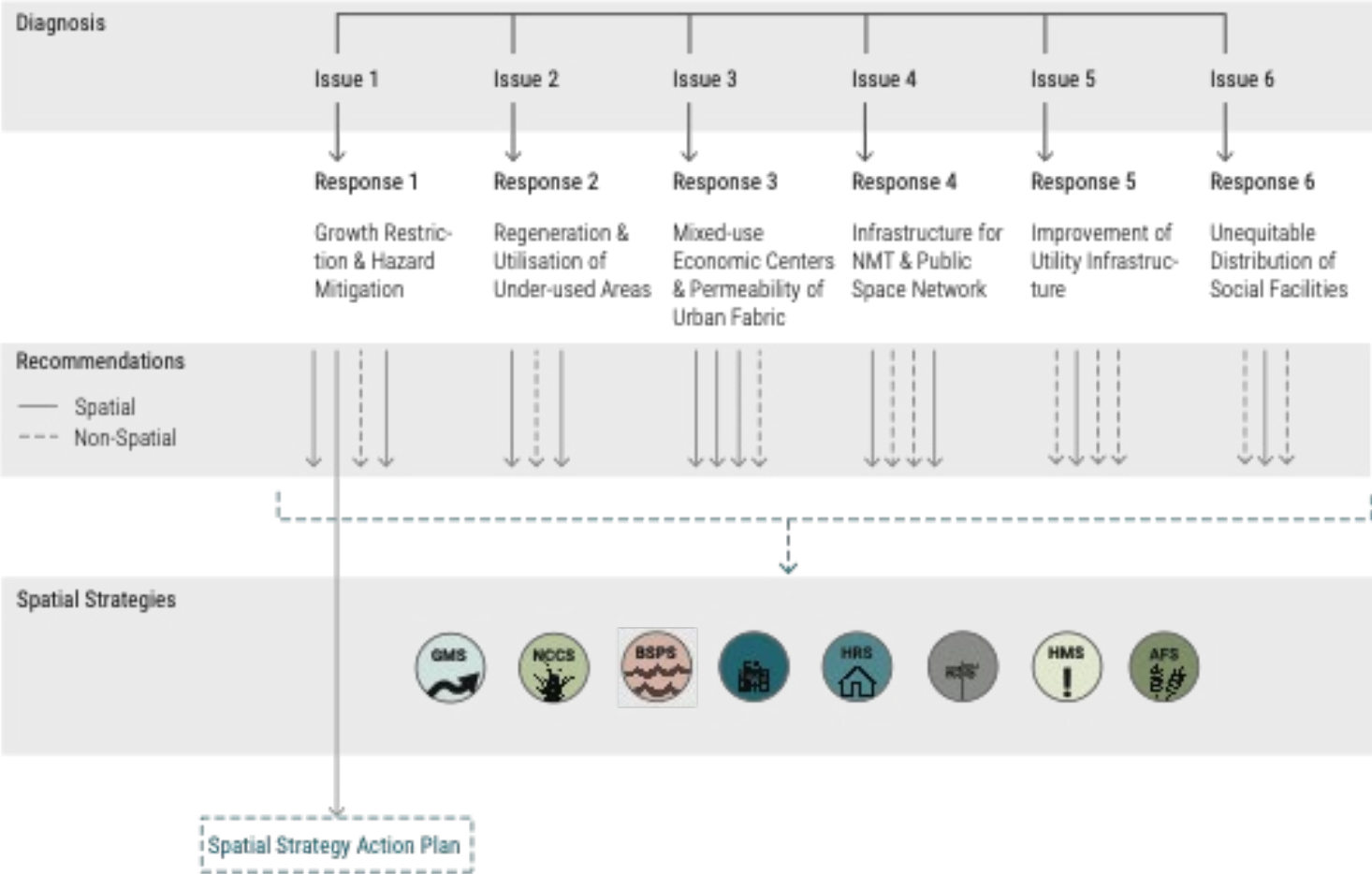


Risks facing GBAO

Risk	Rating (0-10)
Hazard & Exposure	8.3
Natural disasters	8.8
Earthquakes	8.8
Flood	9.1
Landslide	10.0
Drought	5.9
Human	7.7
Project conflict risk	8.2
Current conflict	7.0
Vulnerability	7.6
Socio-Economic Vulnerability	6.8
Development & Deprivation	8.3
Inequality	5.0
Aid Dependency	5.4
Vulnerable Groups	8.3
Uprooted People	4.5
Health Conditions	8.5
Children Under 5	4.3
Recent Shocks	10.0
Flood Security	9.7
Lack of Coping Capacity	7.9
Institutional	8.1
Governance	6.6
Economy	10.0
Humanitarian	7.6
Infrastructure	7.7
Communication	6.7
Physical Infrastructure	6.7
Access to Health Care	9.8

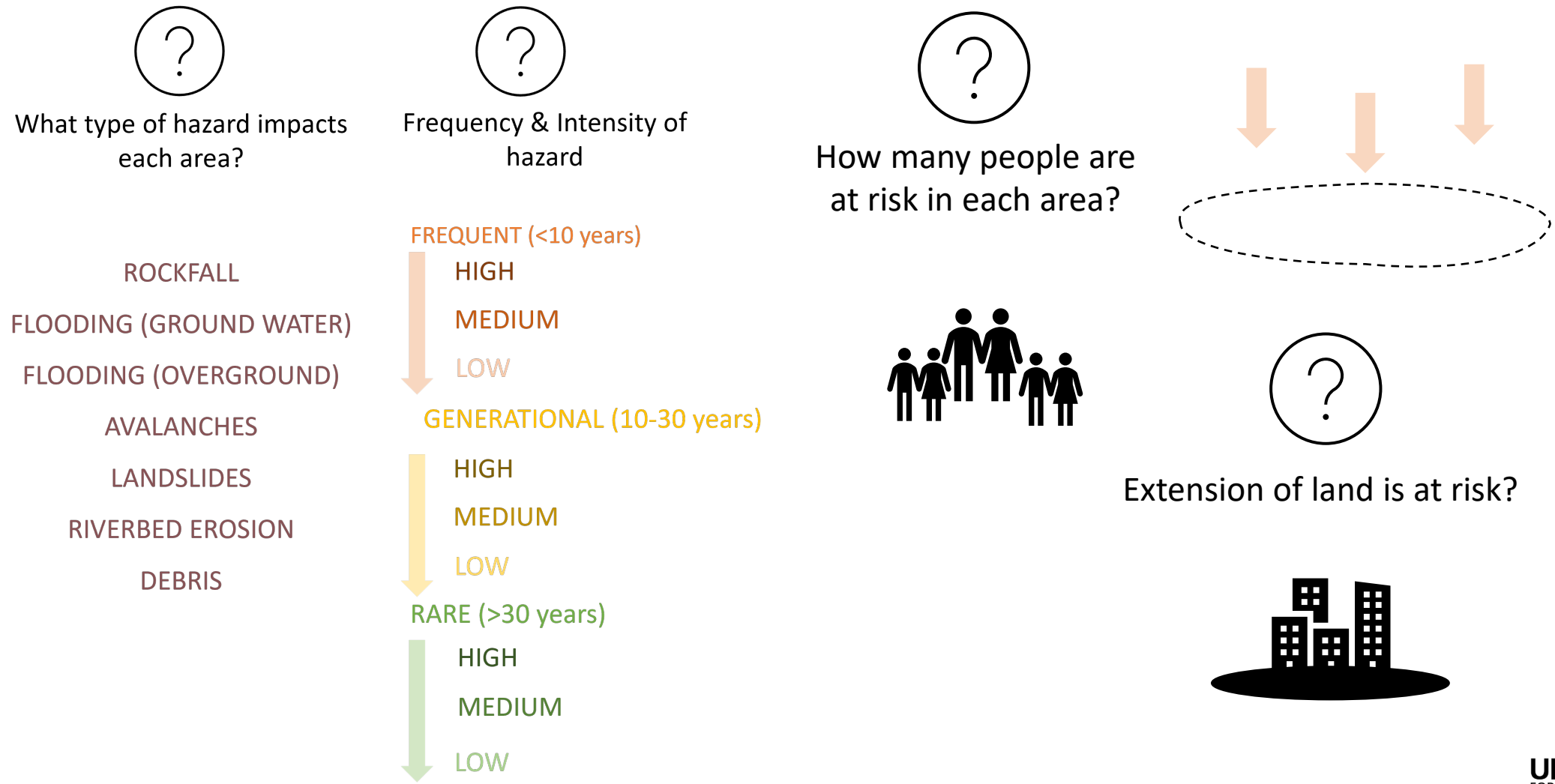
Integrated Spatial Planning in Mountain Settlement

From strategies to actions



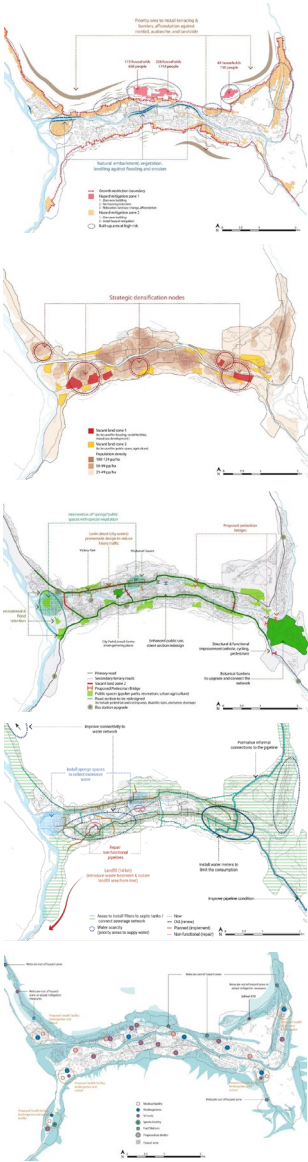
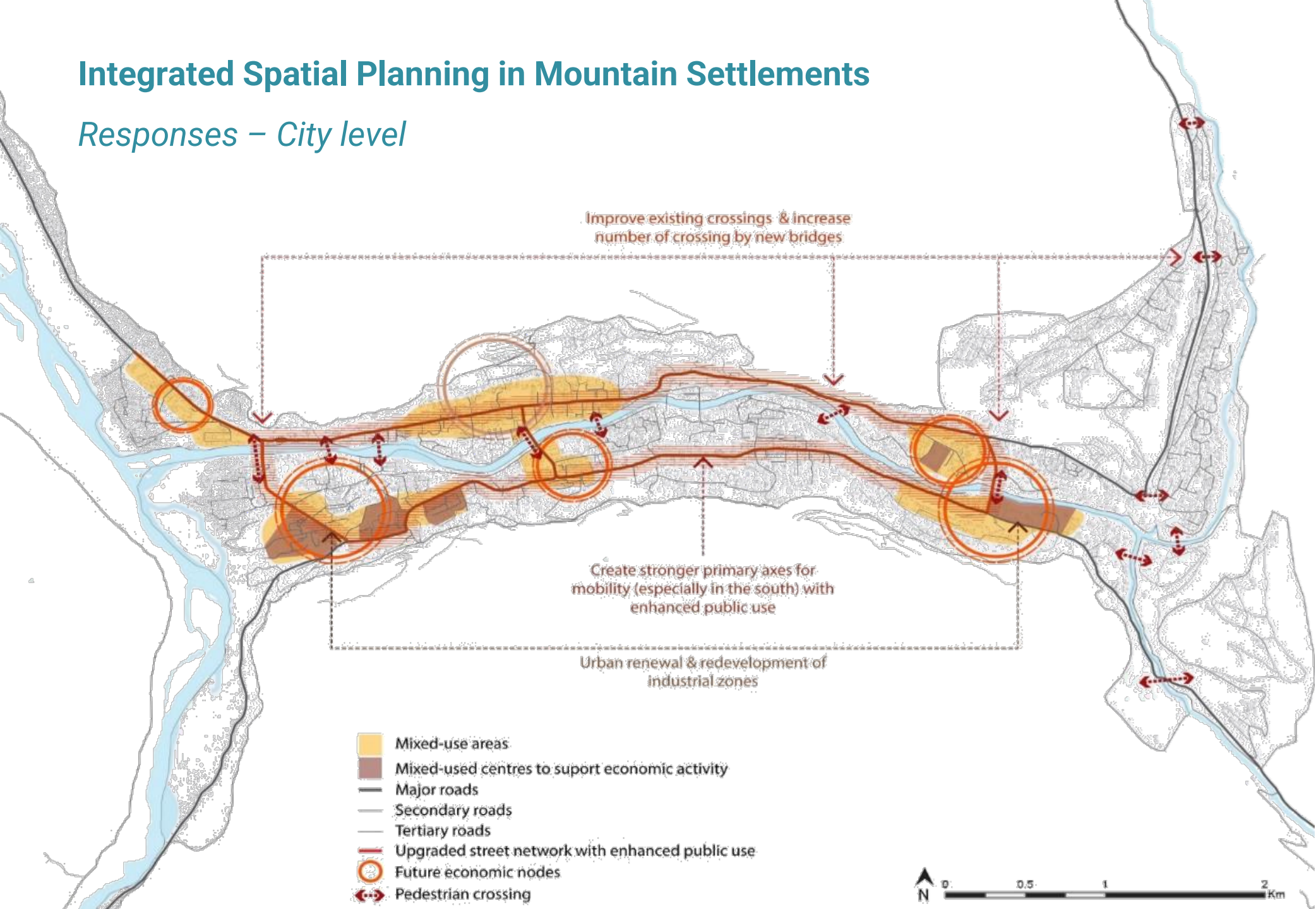
Integrated Spatial Planning in Mountain Settlements

Climate change related disasters: Hazard risk & vulnerability assessment



Integrated Spatial Planning in Mountain Settlements

Responses – City level



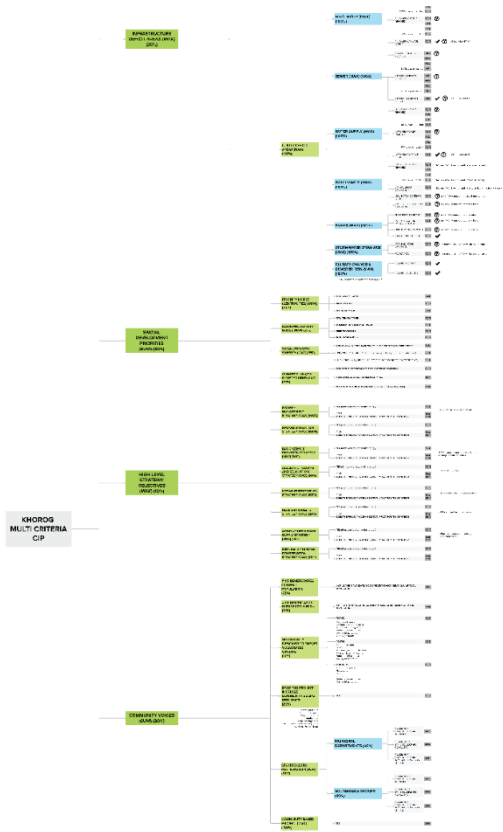
Integrated Spatial Planning in Mountain Settlements

Spatially Targeted Capital Investment Planning

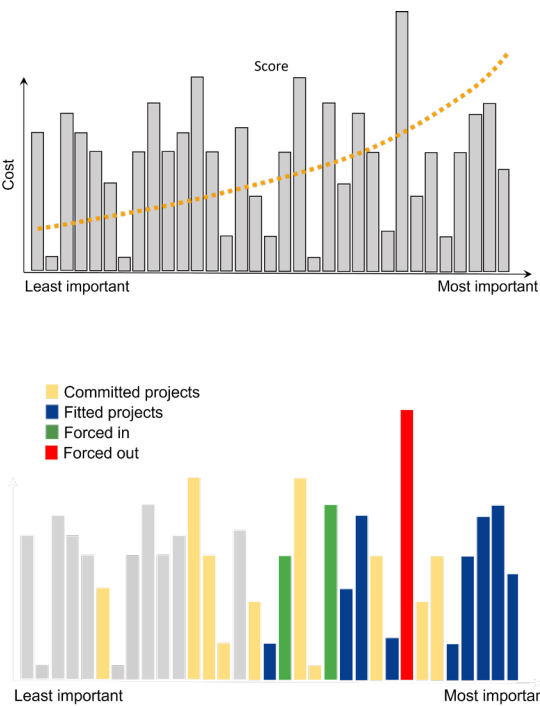
List of investment projects



Multi-criteria assessment



Budget fitting

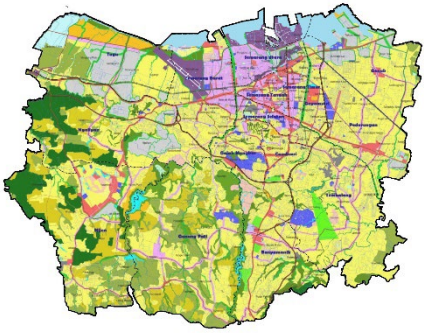


Project name (list will be updated with actual projects)	Project description	Sector (transport, energy, water, etc.)	Type (new replacement, enhancement, maintenance)	Location (Gazette notice, etc.)	Start date	End date
PLANNED		New codes				
Multimodal bridge 1	Construction of the bridge for pedestrian and	81	Transport	new	Saifur Rahman, Dashed Poyon, Shantibod	
Multimodal bridge 2	The regeneration of vehicle bridge to include	82	Transport	regeneration	Saifur Rahman, Tababakhona	
Multimodal bridge 3	The restoration of the pedestrian bridge	83	Transport	reconstruction	Saifur Rahman, Barakat	
Multimodal bridge 4	The regeneration of vehicle bridge to include	84	Transport	regeneration	Saifur Rahman, Barakat, Barakat, Hossin Khutun	
Multimodal bridge 5	Construction of the pedestrian bridge	85	Transport	new	Khong Boin, Tind	
Multimodal bridge 6	The regeneration of vehicle bridge to include	86	Transport	regeneration	Khong Boin, Andarlier	
Multimodal bridge 7	Construction of the pedestrian bridge	87	Transport	new	Andarlier, Botanical Garden	
Multimodal bridge 8	Construction of the pedestrian bridge	88	Transport	new	Chaukhong, Botanical Garden	
Multimodal bridge 9	The regeneration of vehicle bridge to include	89	Transport	regeneration	Waldoh, Gusham, Chaukhong	
Multimodal bridge 10	The regeneration of vehicle bridge to include	90	Transport	regeneration	Saifur Rahman	
Multimodal bridge 11	Infrastructure for pedestrian movements	91	Transport	innovation	Andarlier/Botanical Garden	
Multimodal bridge 12	The regeneration of vehicle bridge to include	92	Transport	regeneration, renovation	Chaukhong	
Market regeneration 1	Kiosks and internal public space with activities	93	Public space	renovation	Dashed Poyon	
Multi functional public space 1	Market and the wetland park to meet the needs	94	Public space	new	Dashed Poyon	
Wetland park connected to the Market	elements of the wetland park, elevated	95	Open public space	new	Dashed Poyon	
Multi functional public space 2	Market and the main access to Dashed Poyon	96	Open public space	new	Dashed Poyon	
Public space with a landmark 1	landmark to create a vibrant environment in	97	Open public space	new	Dashed Poyon	
Packet public space 1	vegetation, places to sit, rest and play	98	Open public space	new	Dashed Poyon	
Packet public space 2	vegetation, places to sit, rest and play	99	Open public space	new	Dashed Poyon	
Packet public space 3	vegetation, places to sit, rest and play	100	Open public space	new	Dashed Poyon	
Linear park	and green links over the road, safe crossing and	101	Open public space	new	Shantibod	
Park with an emphasis on child-friendly design	of structures for play and sports	102	Open public space	new	Shantibod	
Shape public space 1	the road elevation, ensuring vegetation as a	103	Open public space	new	Shantibod, Tababakhona	
Packet public space 4	vegetation, places to sit, rest and play	104	Open public space	new	Tababakhona	
Packet public space 5	vegetation, places to sit, rest and play	105	Open public space	new	Tababakhona	
Packet public space 6						

UN-Habitat's Integrated Spatial Planning Approach

Spatially Informed Capital Investment Planning

Step 1
Assessing the Place



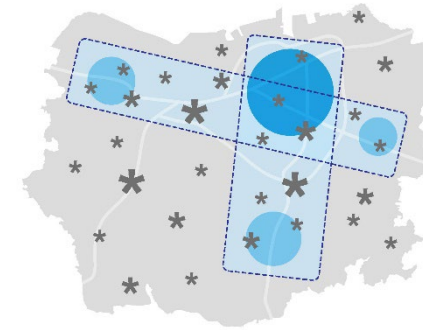
Step 2
Identifying the Needs



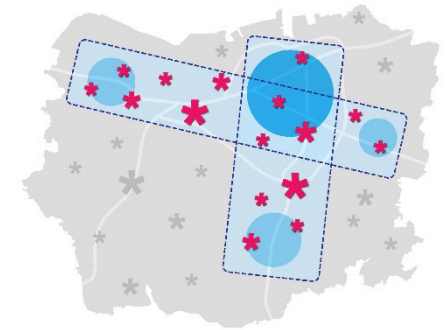
Step 3
Developing Sustainable
Responses



Step 4
Identify Projects



Step 5
Prioritising Projects



UNDERSTANDING THE CITY

PLANNING THE CITY

TRANSFORMING THE CITY

UN-Habitat's Integrated Spatial Planning Approach

Global Frameworks

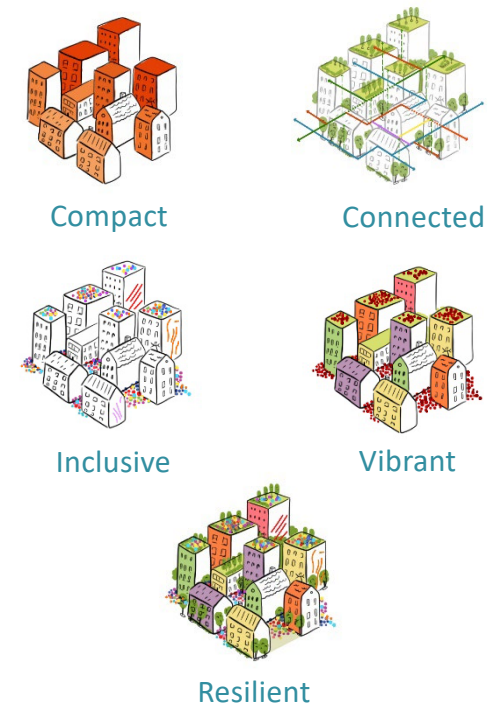


Evidence-based Context Analysis



Vision & Recommendations

Translate policies and strategies into projects, localizing SDGs on the ground



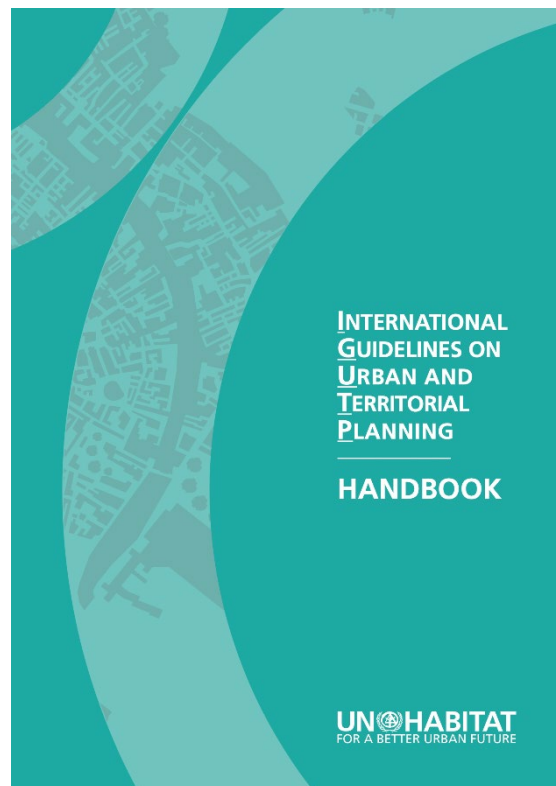
Participatory approach and close collaboration with communities, local governments, technical experts on the ground.

UN-Habitat's Integrated Spatial Planning Approach

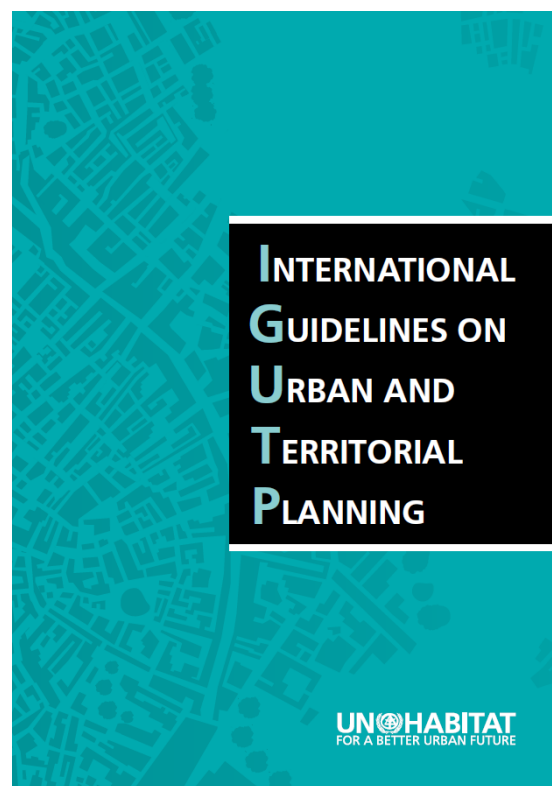
International Guidelines of Urban and Territorial Planning (IG-UTP)

The guidelines were approved on the Governing Council resolution 25/6 in 2015

A foundational framework for Multi-level /
Multi-stakeholder / Multi-sector approach in planning



Published by UN-Habitat in 2018



Published by UN-Habitat in 2015

A
Urban Policy
and Governance

B1
Social
Development

B2
Sustained
Economic
Growth

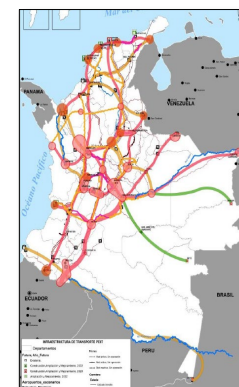
B3
Environment

C
Planning
Components

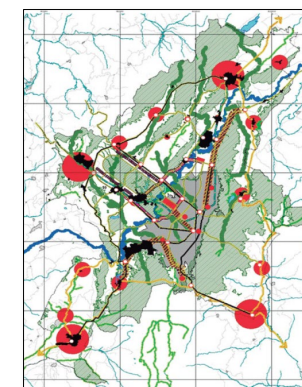
D
Implementation
and Monitoring

Multi-scalar approach: National, Regional, City-wide, Neighbourhood

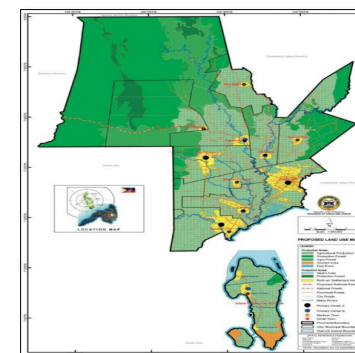
National Scale



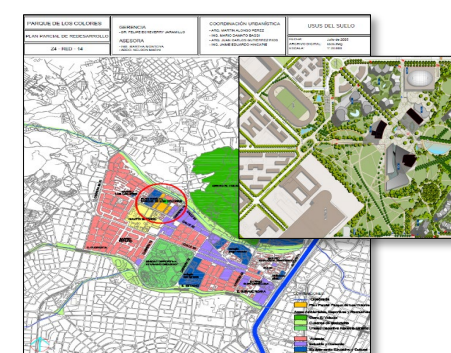
Regional/Provincial Scale



City Scale



City District Scale



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Thank you!