



Enabling urban sustainability: from planning to finance

Salvatore Fundarò, *UN-Habitat*



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Urbanization Trends

CITIES TODAY OCCUPY APPR. ONLY 2% OF TOTAL LAND, HOWEVER:



70%
Global Waste

70%
Greenhouse Gas Emissions

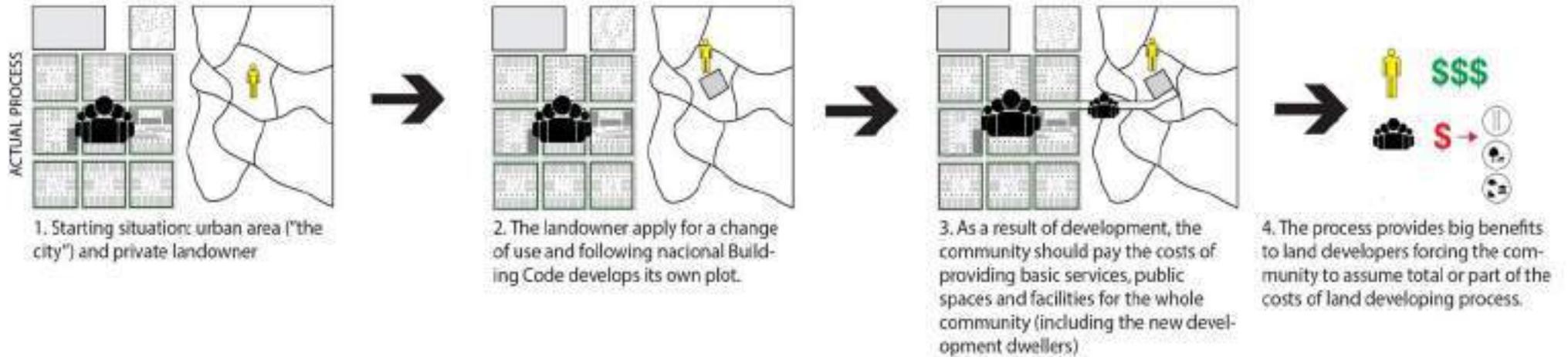
over 60%
Global Energy Consumption

70%
Economy (GDP)

Spatial planning supports in two different ways:

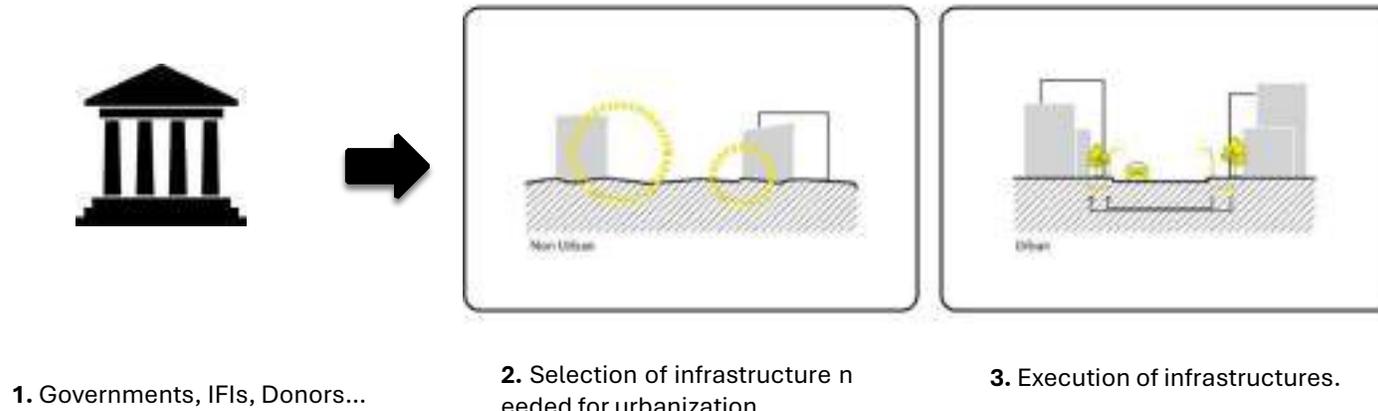
1

Systemic approach: using land value capture mechanisms for more sustainable urbanization processes



2

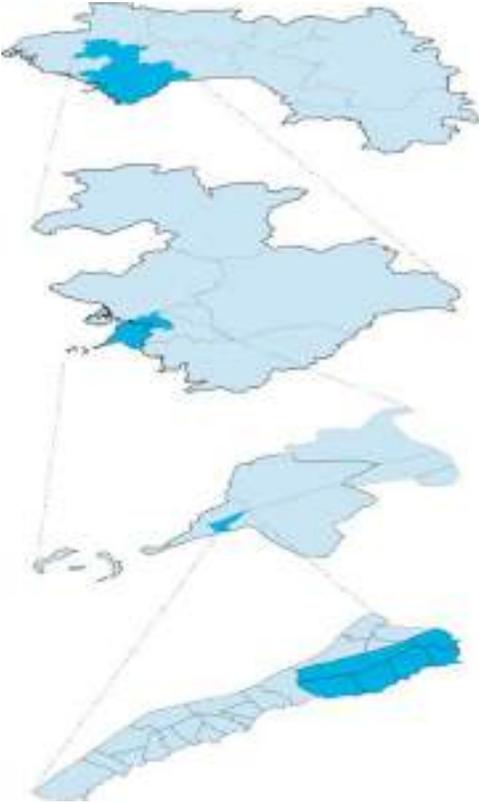
Catalytic approach: using (public) investments to tackle challenges and create opportunities



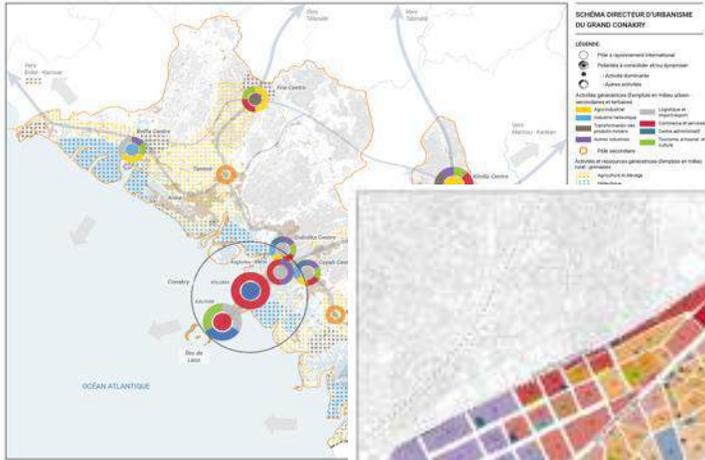
Catalytic approach main question: where in **regions** and **cities** we must invest to create more impact, according to a determined vision?

Integration of Urban and Territorial Planning (multi-scalar approach)

REGION



CITY



DISTRICT



BLOCK



Territorial Spatial Impact Investment methodology

Phase 1 Understanding the Territory



Phase 2 Formulating Strategic Actions and Activities



Phase 3 Prioritising Investments



Outputs



TERRITORIAL
DIAGNOSTIC



SPATIAL
VISION



PORTFOLIO OF
INVESTMENTS

Methods/
Tools

Matrix of
Functions

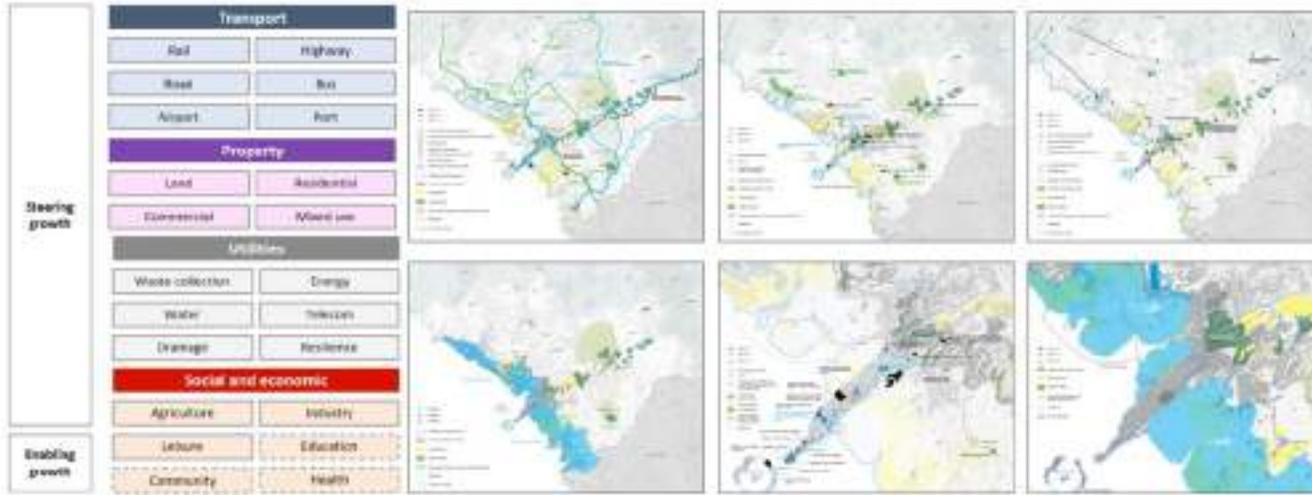
Multi-Scale
territorial
approach

Multicriteria
prioritisation
analysis



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Territorial Spatial Impact Investment methodology

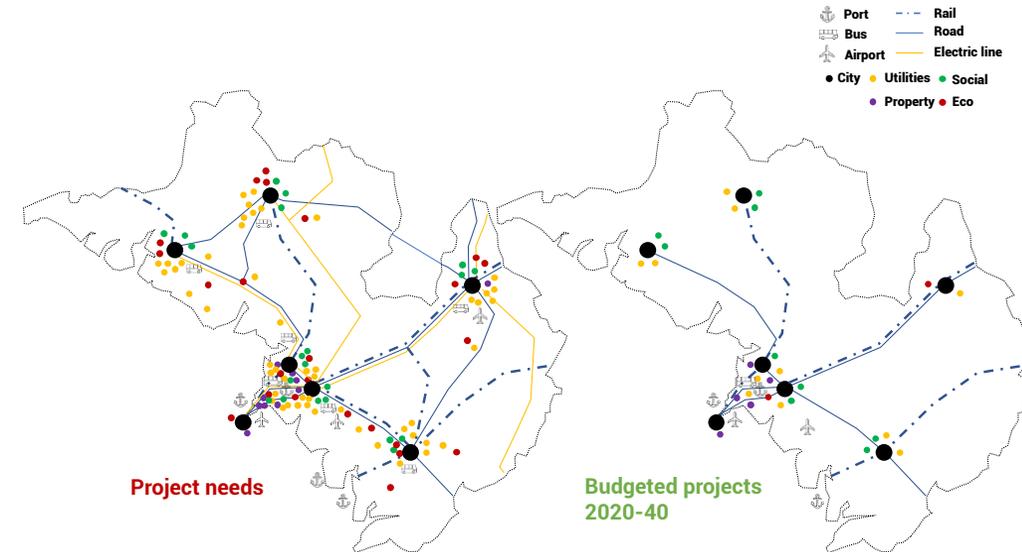


Industrial Food City - Low density

What is your...

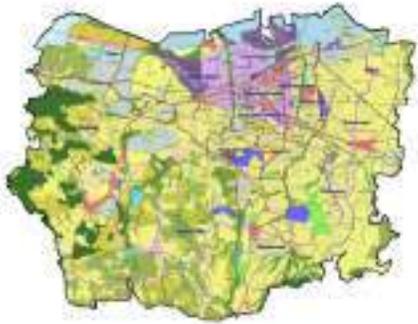
Project ID	Project Name	Project Type	Project Status	Project Location	Project Description	Project Budget	Project Start	Project End	Project Impact	Project Risk	Project Priority	Project Funding	Project Sponsor	Project Contact	Project Notes
1
2
3
4
5
6
7
8
9
10

Needs vs. budget

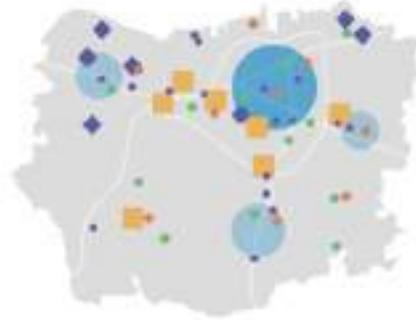


Urban Spatial Impact Investment methodology

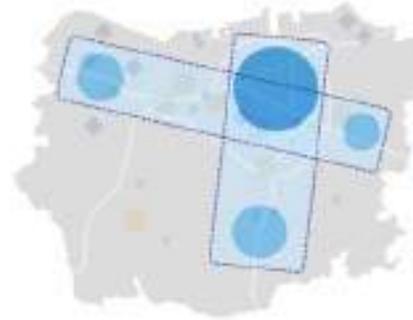
Step 1
Assessing the City



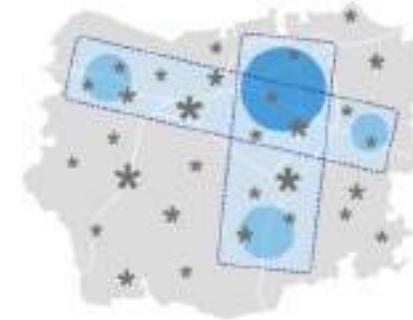
Step 2
Identifying the Needs



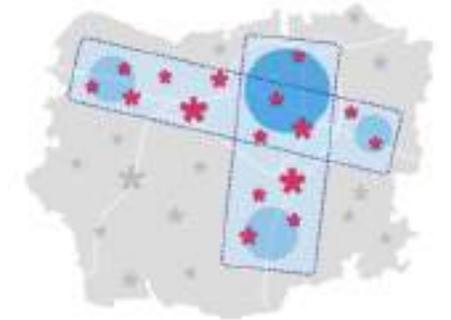
Step 3
Developing Sustainable Responses



Step 4
Identification of Projects



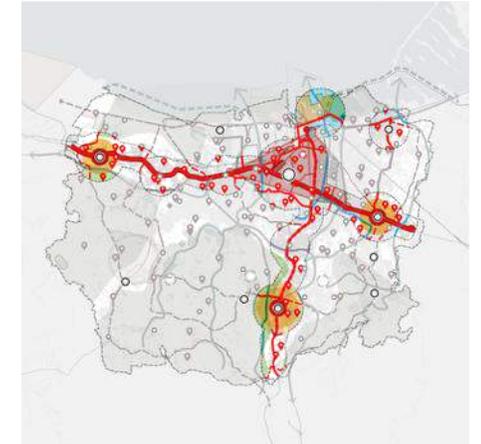
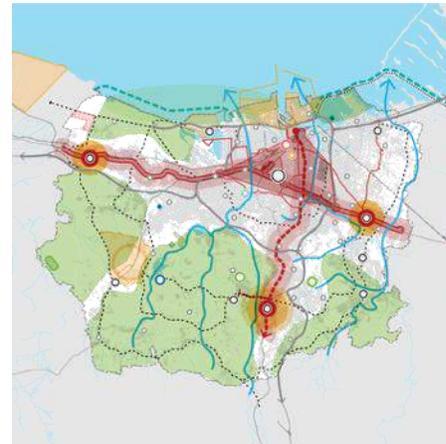
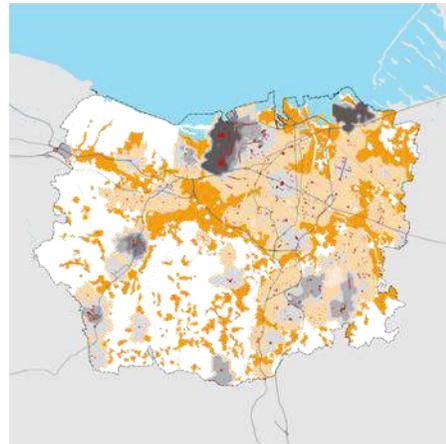
Step 5
Prioritising Projects



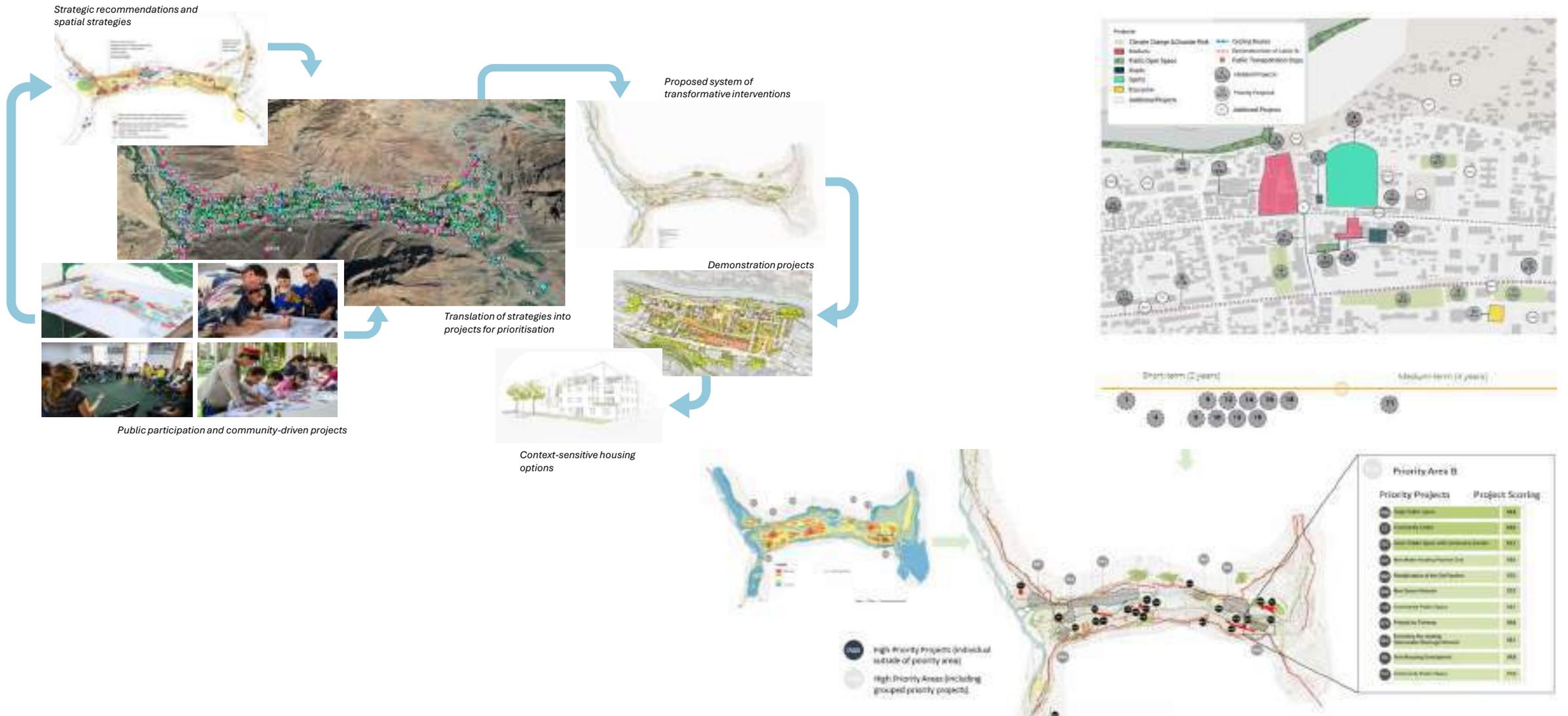
UNDERSTANDING THE CITY

PLANNING THE CITY

TRANSFORMING THE CITY

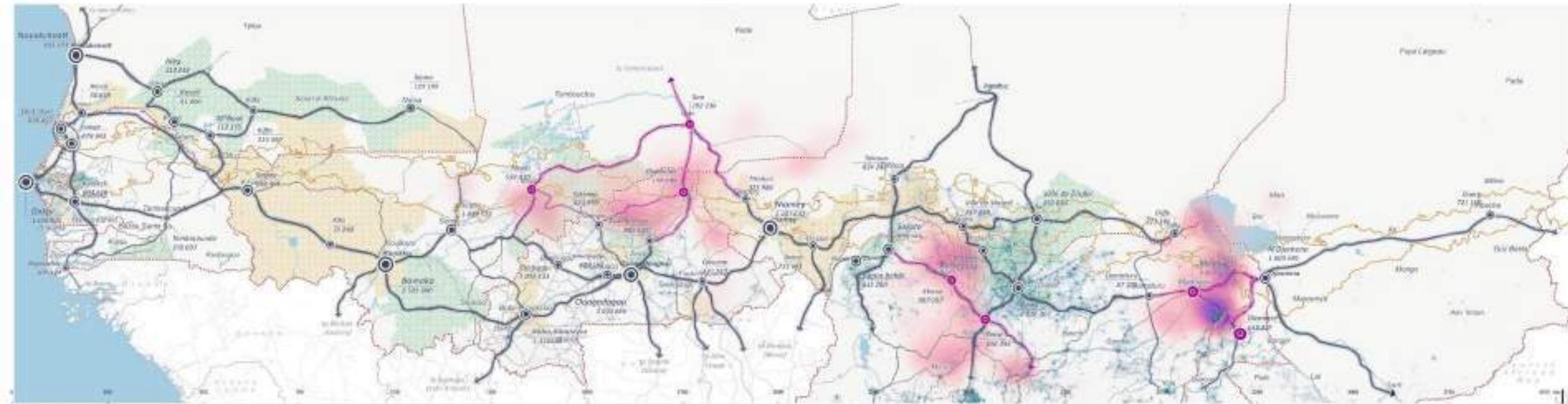


Urban Spatial Impact Investment methodology



Conclusions

1. **Scalable** methodology that can be used at different scales (from city level to transnational)
2. **Participative and Governments' ownership.** Full involvement of Governments (national, regional, local) in all process steps.
3. **Evidence-based and easy to understand,** capturing complexity in visual outputs
4. **Innovative and cost-efficient.** Using AI/machine learning to extract data from satellite images and reduce operational costs. Using participative process as data gathering solution.
5. Provide a clear understanding of the connection between the **spatial analysis, the strategic vision the actions and the investments' card**



SDS808 PROJECTED IMPACTS ON THE PROPOSED NETWORK OF HUMAN SETTLEMENTS
 SPATIAL DEVELOPMENT STRATEGY FOR THE SAHEL (SDSS) - Towards a network of resilient human settlements
 November 2022. UN Habitat/UNEP

Conflict hotspots are based on data of the number of fatalities of conflict events over the period from January 2009 to September 2022. Hotspots of climate migrants in- and out-migration are derived from the GeoIntelligence Africa modelling tool for 2025.
 Data Sources: Armed Conflict Locations & Event Data Project (ACLED), Global Peace Index Project (GPI), Integrated Geospatial Analysis Platform Programme (IGAP), Regional Urban Atlas 2.0, State of the World's Resources Institute (SWRI, 2019), United Nations Office for the Coordination of Humanitarian Affairs (OCHA), WorldPop (2020), World Population Atlas (WPA), World Bank (WB, 2022) Disclaimer: The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any territory, city or area or its affiliation, or concerning the Admission of its members or boundaries.

Priority Territorial Units (PTUs)

- Central Territorial Unit
- Secondary Territorial Unit
- Tertiary Territorial Unit
- Secondary Territorial Unit in Conflict Area
- Tertiary Territorial Unit in Conflict Area

Priority Development Corridors (PDCs)

- Primary DC
- Secondary DC
- Primary DC in Conflict Area
- Secondary PDC in Conflict Area

Conflict events density

- Low
- Medium
- High

Estimated climate migration on annual

- In-Migrants
- Out-Migrants
- Projected critical precipitation isohyets

Population density 2025

- Low
- High

Transport infrastructure

- National road
- Secondary road
- Railway
- Lakes and rivers
- Country boundaries

Thanks!