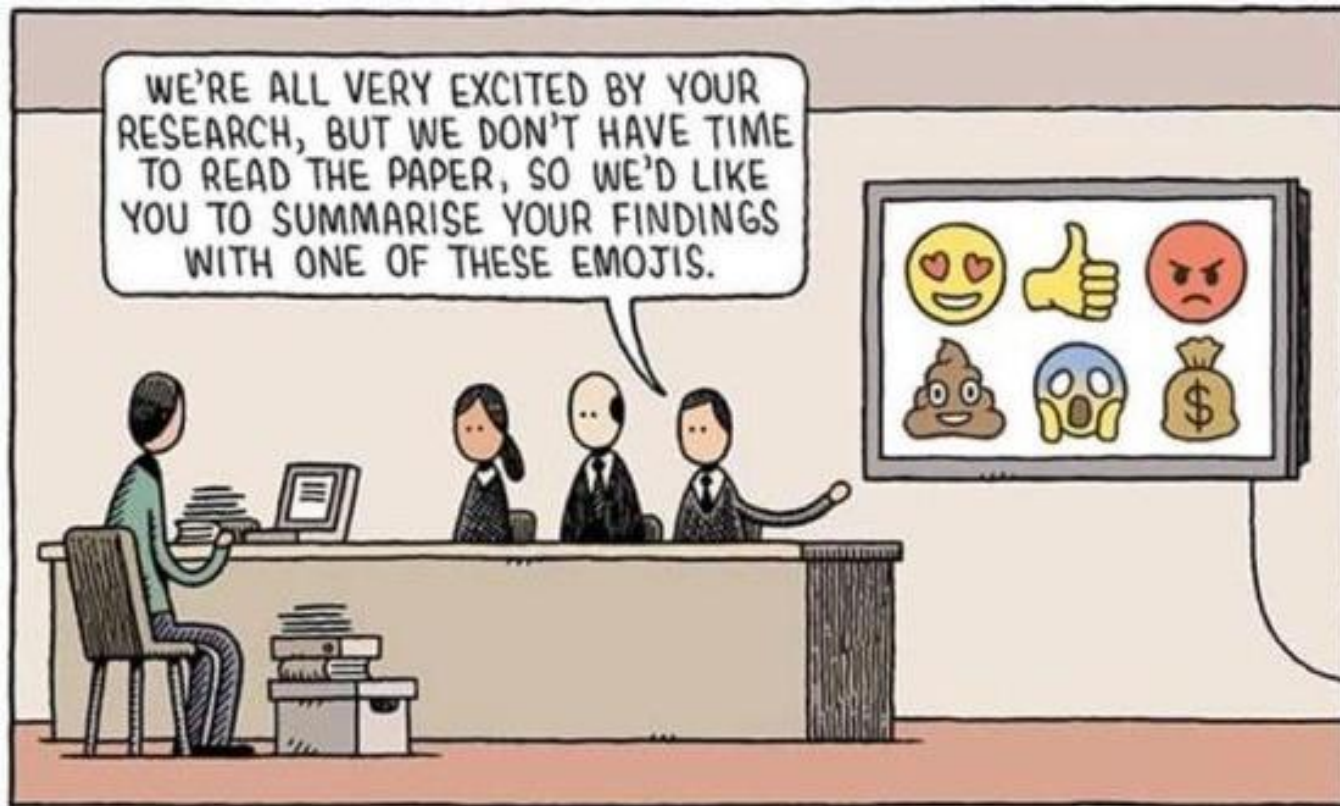# CRP CITY SCAN

CITY RESILIENCE PROGRAM

CRP MECHANISM

Two parallel running tracks: Resilience Enhancing and Capital Mobilization. Each of these tracks has three phases.

Resilience Enhancing

✓ CRP City Scan
✓ Investment planning workshop

PROJECT SCOPING

✓ Technical Assistance

PROJECT PREPARATION

✓ TA as needed

PROJECT EXECUTION

PHASE I

IDENTIFICATION

PHASE II

PREPARATION

PHASE III

IMPLEMENTATION

Capital Mobilization

CAPITAL ASSESSMENT

✓ Rapid Capital Assessment
✓ Financial solutions workshop

CAPITAL INVESTMENT PLANNING

✓ Investment sourcing
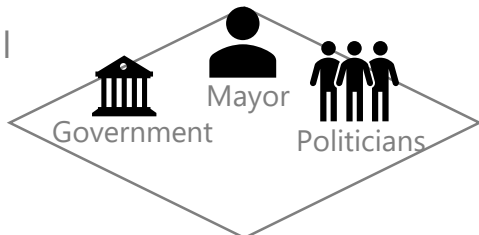✓ Capital mobilization plan

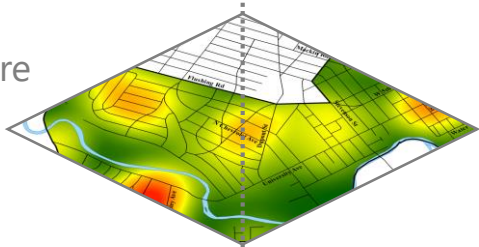**TRANSACTION EXECUTION**

✓ Transaction execution
✓ Financial Close
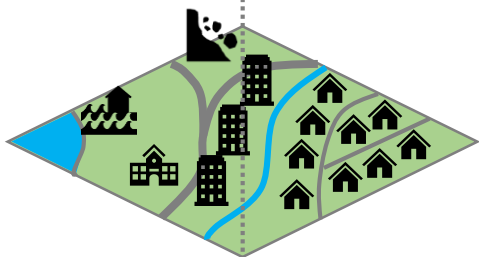
COMPETITIVENESS SCAN

CITY RESILIENCE PROGRAM

1 URBAN DIAGNOSTICS MARKET ASSESSMENT

Review of available urban and resilience frameworks

2 KEY SECTORS AND INDICATORS

Distill key sectors and indicators

3 COMPETITIVENESS BENCHMARKING
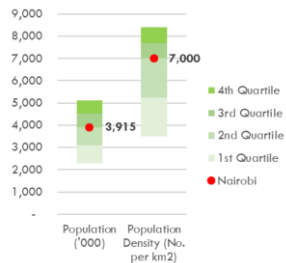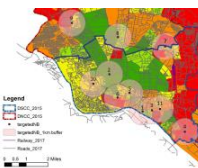
Comparison with cohort and international standards

	Title	Contributor	Urban Vision Making	Methodological Urban Diagnosis	Urban Resilience	Urban Indicators	Diagnostic Guiding Question	Sectoral Diagnosis
1	The Urban China Initiative	Colombia Univ. Tsinghua Univ. McKinsey				✓		
2	Municipal Assessment Tool	Republic of South Africa				✓	✓	✓
3	Urban Sustainability Framework	Global Platform for Sustainable Cities					✓	✓
4	The Morgenstadt Framework	Radecki	✓	✓		✓		✓
5	Integrated Community Sustainability Plants	CIDA				✓	✓	
6	City Strength	WB			✓	✓		✓
7	City Development Strategies	Cities Alliance	✓	✓			✓	✓
8	Assessment Framework	National Univ. of Singapore				✓	✓	✓
9	Indicators for Sustainability	CIDA				✓		✓
10	Comprehensive Plan Indicators	Commerce City				✓		✓
11	Measuring the Sustainability of Cities	Tanguay, et.al.				✓		
12	Indicators for Sustainable Cities	European Commission				✓		
13	SPeAR TM	McGregor				✓		✓
14	Manual for Understanding National Urban Assessments	ADB	✓	✓			✓	✓
15	Disaster Resilience Scorecard for Cities	UNISDR			✓	✓		
16	African Green City Index	EIU				✓		
17	Sustainable Urban Indicators an Frameworks	Abu Dhabi		✓		✓		

Key:

Relevant and useful concepts and indicators	Some useful concepts and indicators	Less widely-used

COMPETITIVENESS SCAN

1

URBAN DIAGNOSTICS MARKET ASSESSMENT

Review of available urban and resilience frameworks

2

KEY SECTORS AND INDICATORS

Distill key sectors and indicators

3

COMPETITIVENESS BENCHMARKING

Comparison with cohort and international standards

City-Level Indicators

- Urban Population
  - Population
  - Population Density
- Urban Economy
  - City Prosperity Index
  - Productivity Index
  - Equity Index, etc.
- Urban Resilience
  - Environmental Sustainability Index
  - Green Space per million inhabitants
- Urban Planning
  - Masterplan
- Urban Services
  - Access to Piped Water, Sanitation, etc.

Sectors and Indicators

- Transportation
- Housing
- Solid Waste Management
- Integrated Water Management
- Sanitation
- Health
- Environment
- Climate
- Disaster Resilience
- Governance
- Regulations

[1-3 indicators per sector, see Annex]

Full list in Annex

Organization	Report / Dataset	Remarks
UN-HABITAT	World Cities Report	Good availability
UN-HABITAT	Urban Data	Poor availability (Africa)
UN Data	data.un.org	Often country-level
World Bank	Doing Business Report	Often country-level

COMPETITIVENESS SCAN

CITY RESILIENCE PROGRAM

1 **URBAN DIAGNOSTICS MARKET ASSESSMENT**

Review of available urban and resilience frameworks

2 **KEY SECTORS AND INDICATORS**

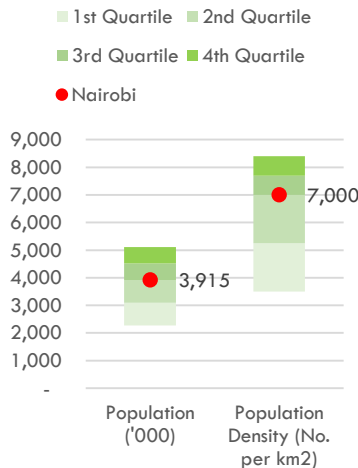Distill key sectors and indicators

3 **COMPETITIVENESS BENCHMARKING**

Comparison with cohort and international standards

- CRP team compiles indicators with available data into 1-2 pager factsheets per city
- Cities benchmarked against cohort of peers and international standards – conversation starter

City-level indicators:

Sectoral indicators:

Urban Population

- 1st Quartile
- 2nd Quartile
- 3rd Quartile
- 4th Quartile
- ● Nairobi

3,915

7,000

Land Use

- Minimum
- 1st Quartile
- 2nd Quartile
- 3rd Quartile
- ● Nairobi

829

Metropolitan Land Area (km2)

Water and Sanitation

56

Piped Water (%)

Transport

47

% of Commutes by Walking

Population ('000)

Population Density (No. per km2)
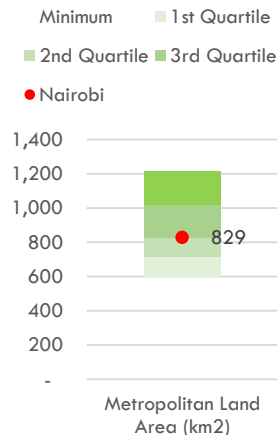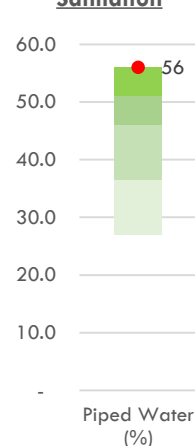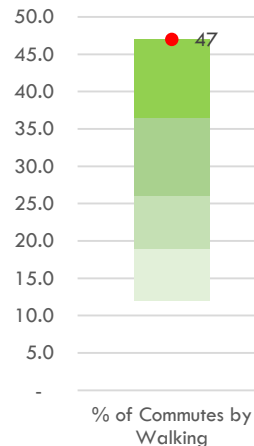
GEOSPATIAL SCAN

C I T Y   R E S I L I E N C E   P R O G R A M

- CRP team with support from GOST delivers a package of maps, visualizations and spatial analytics to the city
- Tap on World Bank/GOST's internal and external partners: ESA, DigitalGlobe, etc.

Package Contents (TBC based on cost/time requirements with GOST)

High spatial resolution
- Urban and peri-urban land use/land cover
- Extent and type of informal settlements/slums
- Building footprints
- Street distribution (arterial vs. collector roads), street widths, street and intersection density
- Population distribution and density
- Elevation/building height
- Flood history, flood risk and associated infrastructure exposure

Low spatial resolution
- Urban extent/built-up area
- Urban heat islands
- Night time light data

Supplementary spatial analytics
- Proximity/average distances to commercial, institutional and industrial areas from formal and informal settlements
- Service accessibility measures (e.g. access to piped water/improved drinking water sources, electricity, piped sewer system/improved sanitation facilities, solid waste collection facilities, health facilities, schools, amenities, public transport, etc.)
- Urban density, fragmentation and compactness
- Share of built up/impervious surface
- Analysis of green spaces
- Potential areas/ land parcels ripe for private sector development
- Floor-to-area ratio estimates
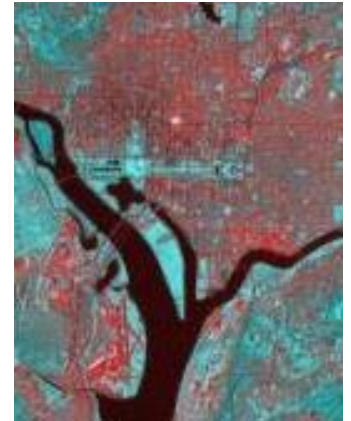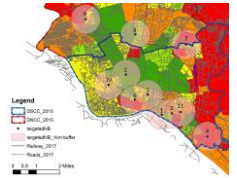
SOCIAL NETWORK SCAN

CITY RESILIENCE PROGRAM

"a social network is made up of a number of actors who are connected by some type of relationship. Social network analysis (SNA) is the process of mapping these relationships, and analyzing the structure of the network and the influence of different actors."

International Rescue Committee. "Social Network Analysis Handbook" July 2016

SIMPLIFYING URBAN COMPLEXITIES

- Urban settings are too complicated to assess.
- Simplified tools enable the policymakers to make a clear decision.

MAKING INVISIBLE VISIBLE

- Understanding influence, power, and capabilities increases the probability of effective policymaking.

VISUALIZING THE NETWORK

- Social network scan helps to unleash the complex network among policymakers, government, donors, and sectors.

SOCIAL NETWORK SCAN

C I T Y   R E S I L I E N C E   P R O G R A M

Mayor/Politicians

Donors

Ministries

DRM

<Legend>

SIZE OF NODE
Donor – Funding size
Sector – Quantiles
Mayor/Politicians/Ministries – No data input

WIDTH OF EDGE
Donor – Priorities of support
Mayor/Politicians – Political interest
Ministries – Urban priorities

SOCIAL NETWORK SCAN

WORK FLOW

Self-Assessment	Consultation	Data Processing	Visualization	Interpretation
• CRP shares self-assessment form. • Assessment is done through consultation.	• CRP calls the video conferences with the Client and TTL for consultation.	• Upon the consultation, the CRP team processes the data into the standardized form.	• The CRP team visualizes the data to create the social network.	• The CRP team provides the Client/TTL with the processed social network.
-	2VCs over 2 weeks	3-7 days/city	3-7 days/city	-
Client/TTL	Client/TTL/CRP	CRP	CRP	Client/TTL

ANNEX: COMPETITIVENESS SCAN INDICATORS

CITY RESILIENCE PROGRAM

City-level	Indicators and Units	Data Source	Remarks
Urban Population	Population ('000)	WCR (UN-HABITAT)	
	Population Density (no. per km^2)	Demographia	
	Population Growth Rate (%, 2015-2020)	UN State of the World's Cities	
Urban Economy	Metropolitan Area (km^2)	Demographia	
	City GDP ($B, PPP)	PwC City GDP Rankings	Lack of data for cities in Africa
	City Prosperity Index (0-1)	UN Urban Data (UN-HABITAT)	
	Equity Index (0-1)	UN Urban Data (UN-HABITAT)	
	Infrastructure Development Index (0-1)	UN Urban Data (UN-HABITAT)	
	Productivity Index (0-1)	UN Urban Data (UN-HABITAT)	
	Quality of Life Index (0-1)	UN Urban Data (UN-HABITAT)	
Urban Resilience	Green Area (Ha. per million people)	WCR (UN-HABITAT)	Lack of data for cities in Africa
	Environmental Sustainability Index (0-1)	UN Urban Data (UN-HABITAT)	
Urban Planning	City has a Masterplan (Y/N, agency responsible)	Desk Review	
Urban Services	Piped water (% of city population)	WCR (UN-HABITAT)	

ANNEX: COMPETITIVENESS SCAN INDICATORS

Sectoral indicators:

Sector	Indicators and Units	Data Source	Remarks
Transportation	Share of walking as means of transport in city (%)	UN Urban Data (UN-HABITAT)	
	Paved streets as a share of all streets (%)	UN Urban Data (UN-HABITAT)	
	Street density index (0-1)	UN Urban Data (UN-HABITAT)	
Housing	Slum population (% of city population)	WCR (UN-HABITAT)	
	New housing units required per year (No.)	[Population * Growth Rate] / HH Size	
Solid Waste Management	Connection to sewerage (% of city population)	WCR (UN-HABITAT)	
Integrated Water Management	Improved water access and quality (% of city population)	WCR (UN-HABITAT)	
	Piped water (% of city population)	WCR (UN-HABITAT)	
Sanitation	Improved sanitation access and quality (% of city population)	WCR (UN-HABITAT)	
Health	HIV prevalence among 15-49 year old population (%)	UN Urban Data (UN-HABITAT)	Lack of city-level disaggregation
Environment / Climate	CO2 Emissions per capita (Tons per inhabitant)	WCR (UN-HABITAT)	
Disaster Resilience	Average annual loss of lives by floods / earthquakes / droughts / cyclones	UN Urban Data (UN-HABITAT)	Lack of city-level disaggregation and data for cities in Africa
Governance	Own-Source Revenues (% of city revenues)	TBC	TBC
Regulations	Legally mandated inspections of buildings occur in practice during construction (Y/N)	WB Doing Business Report	Country-level data