

Investing for the Future







WHAT IS URBAN RESILIENCE?

PROGRAM

The ability of a system, entity, community, or person to adapt to a variety of changing conditions and to withstand shocks while still maintaining its essential functions

-World Bank 2016

IENCE PROGRAM

WHY IS IT IMPORTANT?

Investing in urban resilience is fundamental to ensuring sustainable development and poverty reduction Unprecedented urbanization is transforming the planet and the way we live

- Most urban expansions occurs near natural hazards, rivers and coastlines, and through informal and unplanned settlements
- (

Lack of adequate infrastructure and land use planning exacerbate the risks to which urban dwellers are exposed

A DIFFERENT APPROACH

CITY RESILIENCE PROGRAM

Proactively investing in resilience – prior to the occurrence of a catastrophic event – represents a strategic shift from past development trends. It involves effectively addressing the interplay between risks and urban development that enables better management of current challenges while accounting for future scenarios.





UNDERSTAND THE BUILT ENVIRONMENT

Integrate Geospatial Solutions and innovative technology to maximize land value and resilient urban planning



CRP STRATEGY

TECHNICAL ASSISTANCE

Leverage breadth of World Bank Group expertise to design and implement a comprehensive response to the resilience challenge

CAPITAL MOBILIZATION

Targeted support to cities to develop a pipeline of resilience-building investments and expand financing options available to them



WHAT ARE THE OBSTACLES TO FINANCING **URBAN RESILIENCE?**

City governments lack funds to realize investments in resilient infrastructure



Lack of bankable projects and pipeline of investments to attract private financiers



Limited market development to enable flow of funds from private investors to city governments





EMERGENCY PREPAREDNESS & RESPONSE



RESILIENT COMMUNITIES





GEOSPATIAL SOLUTIONS



RESILIENT INFRASTRUCTURE

TECHNICAL ASSISTANCE

CITY RESILIENCE PROGRAM



CAPITAL MOBILIZATION

CITY RESILIENCE PROGRAM

MUNICIPAL FINANCE

Financial management and credit worthiness



PRAVATE FINANCE

Land Value Capture Public Private Partnership





OFFICIAL DEVELOPMENT FINANCE

WBG alongside other multilateral and bilateral DFIs



CREDIT ENHANCEMENT

Project de-risking and credit guarantees

RAPID CAPITAL ASSESSMENT (RCA)

This assessment provides a high-level overview of the city on how national, subnational regulatory frameworks and local market fundamentals support the city to access domestic and international capital markets and leveraging private capital. Stop-lights charts are used for each city indicating risk level in each of the private sector mobilization modalities: bonds, bank loans, PPP/Concessions, and land-value capture.

High Risk Condition — Moderate

Low risk

WB Region	Country City Inernational Domestic Bonds		Domestic Bonds	Loans from Commercial Banks	PPP / Concessions	Land Value Capture	
Africa	Ghana	Accra	1,29	1,38	1,40	1,67	1,61
Africa	South Africa	Nelson Mandela Bay	2,29	2,50	2,80	2,33	2,50
EAP	Cambodia	Phnom Penh	1,95	1,50	1,20	1,67	1,61
EAP	China	Deyang	2,43	2,25	1,80	2,33	2,22
EAP	Indonesia	Balikpapan	1,90	2,00	2,40	2,00	2,11
EAP	Indonesia	Jakarta	2,00	2,13	2,40	2,33	2,67
EAP	Laos	Vientiane	1,62	1,25	1,40	1,67	1,72
EAP	Myanmar	Yangon	1,29	1,13	1,00	1,00	1,67
EAP	Thailand	Bangkok	2,43	2,38	2,20	2,67	2,78
EAP	Vietnam	Haiphong	1,81	2,00	1,20	2,00	2,78
EAP	Vietnam	Ho Chi Min	1,90	2,25	1,40	2,67	2,89
ECA	Turkey	Istanbul	1,76	2,25	1,80	1,67	2,67
LAC	Argentina	Jujuy	1,57	1,88	1,80	2,67	2,06
LAC	Argentina	Santa Fe	1,67	2,00	1,60	2,67	2,22
LAC	Bolivia	Cochabamba	1,71	1,63	1,40	1,00	1,67
LAC	Bolivia	La Paz	1,71	1,63	1,40	1,00	1,56
LAC	Brazil	Manaus	1,67	2,13	2,00	2,67	2,28
LAC	Brazil	Porto Allegre	1,67	2,13	2,00	2,33	2,78
LAC	Colombia	Barranquilla	1,86	2,75	2,60	2,67	2,78
LAC	Colombia	Medellin	1,95	2,75	2,60	2,67	2,94
LAC	Panama	Panama City	2,43	2,00	2,20	2,33	2,50
LAC	Peru	Lima	1,95	2,50	2,60	3,00	2,50
South Asia	Bangladesh	Chittagong	1,71	1,63	1,80	2,33	1,72
South Asia	Nepal	Kathmandu	1,38	1,50	1,80	2,00	1,83
South Asia	Nepal	Lalitpur	1,29	1,38	1,60	2,00	1,67

All cities

<u>Results Examples</u>

Ho Chi Minh City

Factors	Inernational Bonds	Domestic Bonds	Loans from Commercial Banks	PPP / Concessions	Land Value Capture
National currency volatility	•				
Key rate		•			
Prime bank lending rate - in domestic currency			•		
National economic outlook	•				
National fiscal and monetary sustainability	•	•			
Legislative context / national frameworks for respective mechanism	•	•	•	•	
City's track record / institutional capacity in respective mechanism	•	•	•	•	•
Bond market Infrastructure	•	•			
Availability of bond Investors on domestic market		•			
Perceived city creditworthiness	•	•			
Local fiscal flexibility / fiscal autonomy	•	•	•		•
Availability of government co-financing vehicles			•	•	
Market demand for development sites					•
Land market transparency					•
Secure land and property rights					•
Land use controls					•
Marketability of underutilized public properties					•
Price discovery for publicly owned real estate					•
Legislation for special tax assessments					•
Practice and framework for community participation in land banking					•



CRP MECHANISM

Engagements with cities are taken on a three phased approached. Preliminary assessments to define the set of investments needed to strengthen urban resilience

Assistance

Technical

Capital Mobilization

PHASE I PROJECT SCOPING

Assess the enabling environment to deploy financial instruments for Debt, PPP and LVC In-depth technical assessment to tailor urban resilience project design

PHASE II

DIAGNOSTIC ASSESSMENT

Capital Investment Planning that includes a menu of private capital Transaction options Implementation of the identified investment project

PHASE III



Execution of private capital transaction

CRP'S MILESTONES

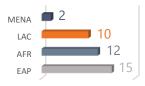
24 cities 20+WB TTL /Focal Point 13 Financial Experts

12/2017 WB President introduced CRP at the Paris One Planet Summit

11/2017

Comprehensive Financial Solutions For City Resilience Conference 1/2018 35 cities engaged 12 cities selected for financing market testing

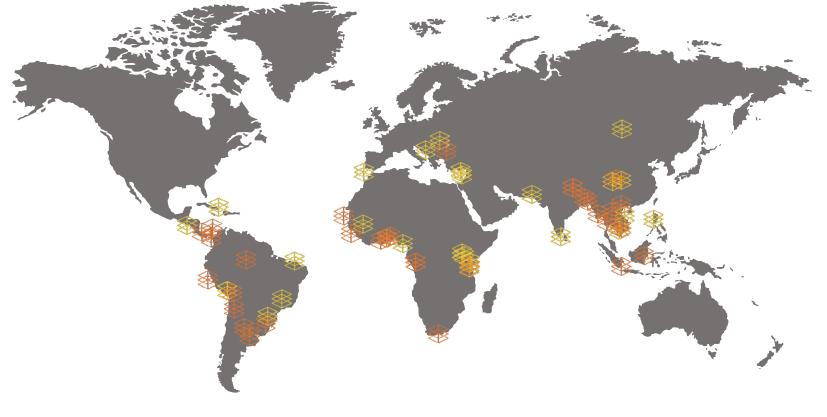




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6/2017 CRP Launch





CRP'S PORTFOLIO



Cities CRP engages with

2018 new cohort of cities

CITY RESILIENCE PROGRAM

HAIPHONG

-Case study

CRP Phase II Capital Mobilization activities

key Tasks

Activity

Identification, validation and preliminary assessment of Haiphong's priorities

ACTIVITY I

 Review current urban resilience agenda

 Prepare a stakeholders' map indicating role, potential impact and attitude towards prioritized projects

 Systematic analysis of materials developed during previous CRP assignments

Development of a standardized toolkit to reflect the specifics of Haiphong city

Define short-listed projects

Assess Projects' feasibility to raise private capital, including debt instruments, PPP and LVC

ACTIVITY II

 Pro forma financial model for the selected project(s)

 Desktop systematic analysis to inform qualitative assessment and down-selection of funding mechanisms

 Targeted interviews, consultations,

workshops

- LVC market testing
- Optimal capital structure
- Roadmap for Project
 implementation

Supporting development of enabling environment for urban resilience projects, realization and financing

ACTIVITY III

High-level review of key limiting factors for project implementation and private capital deployment:

• PPP laws and regulations

Bidding criteria

 Experience in and quality of urban resilience investments

Dispute resolution
 mechanisms

Institutional design

- Public capacity to plan and oversee PPPs
- Methods for selecting and awarding projects



Barranquilla

-Riverfront rehabilitation project

CRP facilitates a dialogue between city officials and private developers with the aim of structuring a joint development effort with shared funding responsibilities for critical infrastructure upgrades.

Opportunity

CRP contribution



Area boasts high potential for land value growth due to proximity to riverfront, which is attractive to private investors. Initial verification of project scope is completed; Land area for the pilot project within the Barranquilla waterfront rehab area is pending identification

The city created a Development Agency that is in charge of the waterfront rehabilitation.

Capital mobilization advisory to assess funding sources, uses and financial gaps for a pilot infrastructure project the waterfront rehab area starts soon



The city is committed to foster improvement of the area



Current land regulations allow deployment of various LVC instruments.



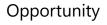
Porto Alegre

-Urban Regeneration project



Private sector is lured by proximity to downtown and waterfront and is eager to invest

CRP facilitates a dialogue between city officials and private developers with the aim to structure a joint development effort. City aims to attracts private sector investment in resettlement and critical infrastructure by: 1)Recouping land value growth attributable to private-led developments 2)Monetizing city-owned assets 3)Securitizing the value of city-owned assets



Area boasts high potential for land value growth granted development roadblocks are lifted

The city is committed to foster improvement of the area



Critical infrastructure upgrades have been preliminarily identified and estimated to cost up to \$80 million

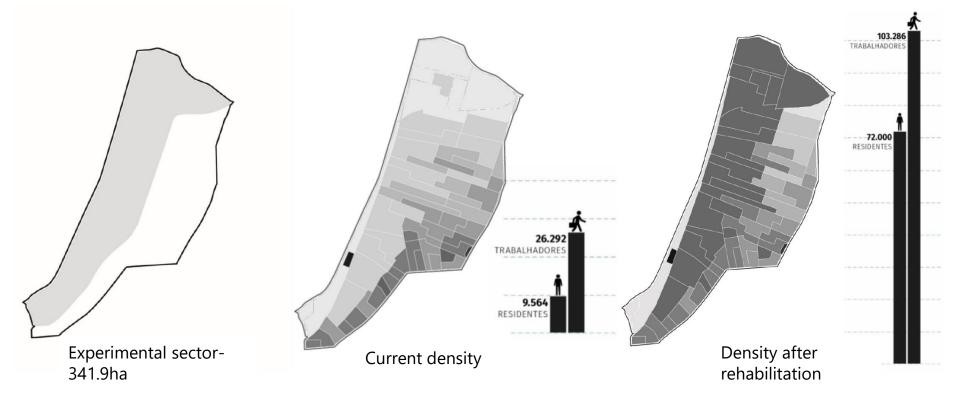
CRP contribution

Initial verification of the urban renewal scope is completed; Land area for the pilot project within the 4th District is pending identification

Working closely with city officials, CRP made recommendations on how to tackle flood events in the poorest parts of the 4th District

Capital mobilization advisory starts soon

Urban revitalization attracts people: increase of total density by up to 5X (from 35k to 175K)





Education and health

Mixed use-housing, trade and services

Entertainment, culture and recreation

Information technology and creative economics

ECONOMIC RECONVERSION OF PRE-EXISTING AND ATTRACTION OF NEW BUSINESS

Modernizing existing businesses

- Bars, restaurants, shops
- Self-employed professional services

Business-Anchor Establishment

- IRGA (rice R & D)
- AMBEV (Beer District)
- GERDAU (Tower of Knowledge)
- University (Research Groups)

Training Clusters of Knowledge

- Health
- Education
- Creative economy
- Information Technology and Microelectronics



Increased income generation, changing socioeconomic dynamics of the region

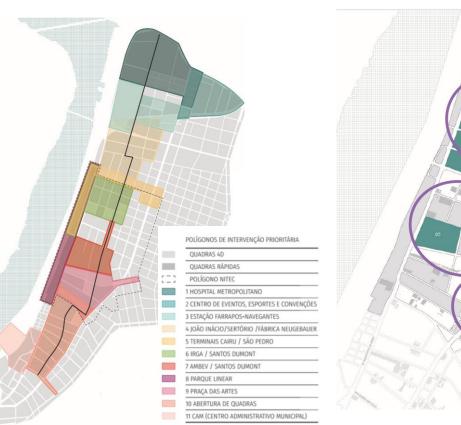
HOW TO GET THERE?

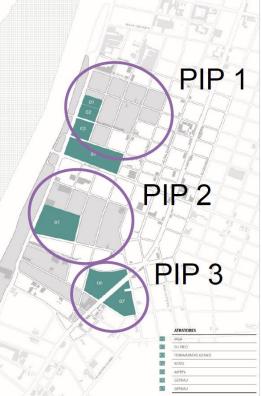
1. Definition of PIPs -Priority Intervention Polygons

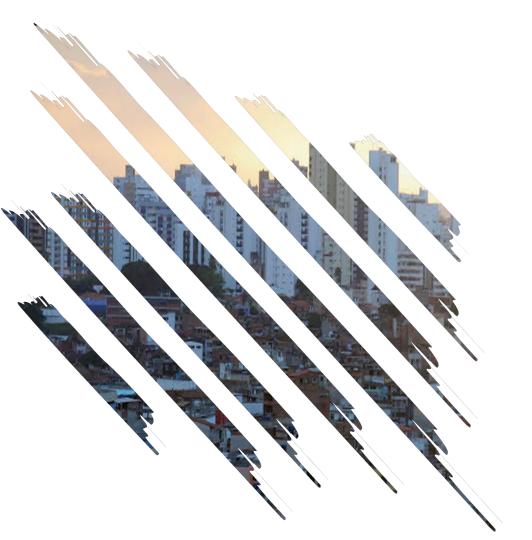
2. Selection of strategic PIPs according to installed capacity

pre-existing infrastructure, mobility, amenities, socioeconomic dynamics (economic activities, housing)

 Development simulation
 Implementation of the Business Plan for the implementation of the Master Plan







THANK YOU