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### Street-led Citywide Slum Upgrading:

#### streets as tool for urban transformation



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**United Nations Human Settlements Programme** 

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# A Virtuous Cycle of Capacity Building in Slum Upgrading:

From strategy to practical application in citywide slum upgrading.



#### Virtuous Cycle of Capacity Development

#### **STRATEGY PAPER**

A street-led approach to citywide slum upgrading.

Streets as tools for urban transformation in slums

Knowledge Skills

Knowledge

Research

PRACTICAL GUIDE:

Designing, Planning
Managing &
Executing
Citywide Slum
Upgrading Programmes

Technical Assistance to strengthen capacities of City Governments:

Policy Development Institutions

**Human Resources** 

Tools

**Application** 

#### TRAINING OF TRAINERS:

Designing, Planning
Managing &
Executing
Citywide Slum
Upgrading Programmes

Skills

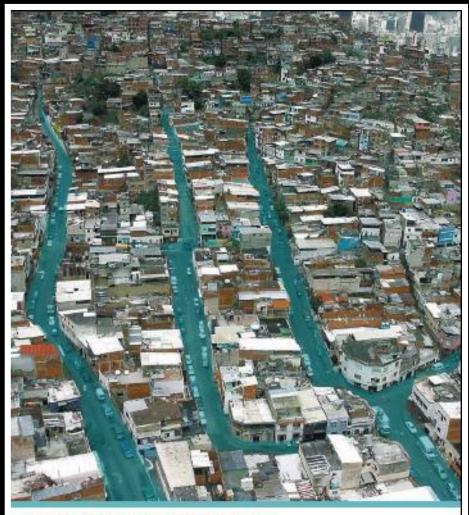
Institution building

#### **TRAINING MODULE:**

Designing, Planning
Managing &
Executing
Citywide Slum
Upgrading Programmes

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28/08/2018



#### STREETS AS TOOLS FOR URBAN TRANSFORMATION IN SLUMS:

A STREET-LED APPROACH TO CITYWIDE SLUM UPGRADING





A PRACTICAL GUIDE TO DESIGNING, PLANNING, AND EXECUTING CITYWIDE SLUM UPGRADING PROGRAMMES

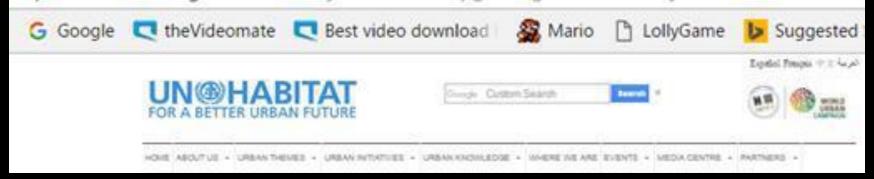




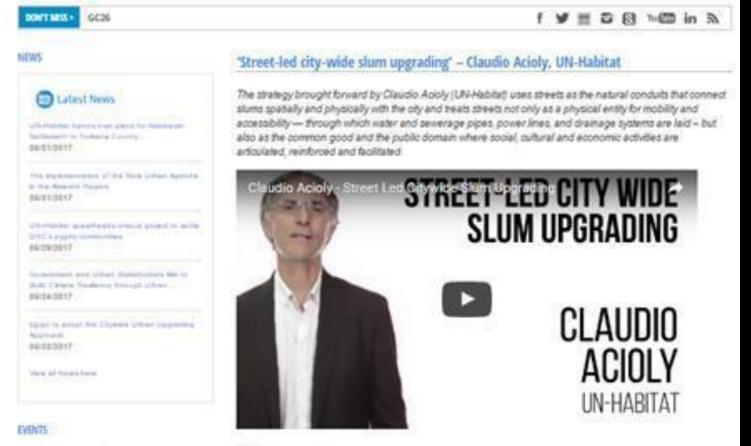
DESIGNING AND IMPLEMENTING STREET-LED CITYWIDE SLUM UPGRADING PROGRAMMES

A TRAINING MODULE COMPANION





#### https://unhabitat.org/urban-knowledge/urban-lectures/



#### https://unhabitat.org/urban-knowledge/urban-lectures/



MAKING ROOM FOR A PLANET OF CITIES

SHLOMO ANGEL STERN SCHOOL OF BLSINESS. NEW YORK UNDERSTY

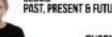
PAST, PRESENT & FUTURE

INVERSITY OF PERWSYLVAMA

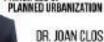
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GOETHERT

OF TECHNOLOGY (MT)



EUGENIE BIRCH



EXECUTAVE DIRECTO

IN-HARRAT

PRINCIPLES OF



URBANIZATION &







CITIZEN ROLES IN RESILIENT CITIES



INCREMENTAL HOUSING -THE NEW SITE & SERVICES



ADDRESSING GLOBAL LAND CHALLENGES



DEMOGRAPHICS: THE COORDINATION PROBLEM ROBERT BUCKLEY

THE NEW SCHOOL

MARJA HOEK-SMIT WHATTON SCHOOL MIVERSITY OF PENNSYLVANIA

MASS HOUSING REQUIRES

MASS HOUSING FINANCE

ROBERT CERVERO INVERSITY OF CALIFORNIA. BERKBLEY



DEMBO

RON

HANDMADE ARCHITECTURE AS A CATALYST FOR DEVELOPMENT



GREEN INFRASTRUCTURE CHRIS **JEFFERIES** URBANDRANATE SPECIALIST







NABEEL HAMDI OCTORO EFRICKES UNIVERSITY



HERINGER LINESCO CHARREON ELETHER ARCHITECTURE







CITY Prosperity INITIATIVE



ANNA



SEASON 3









SLUM URBANISM IN AFRICA? **EDGAR** 

INVERSITY OF CAPE TOWN

WORLD FUTURE COUNCIL

PIETERSE



HUGO PRIEMUS



POST-INDUSTRIAL DYNAMICS



FROM AGROPOLIS TO ECOPOLIS TOWARDS RECENERATIVE CITIES STEFAN **SCHURIG** 







OF NEW YORK

UNHARRING







### STREETS AND PUBLIC SPACE:

Streets and public spaces define human settlements history.



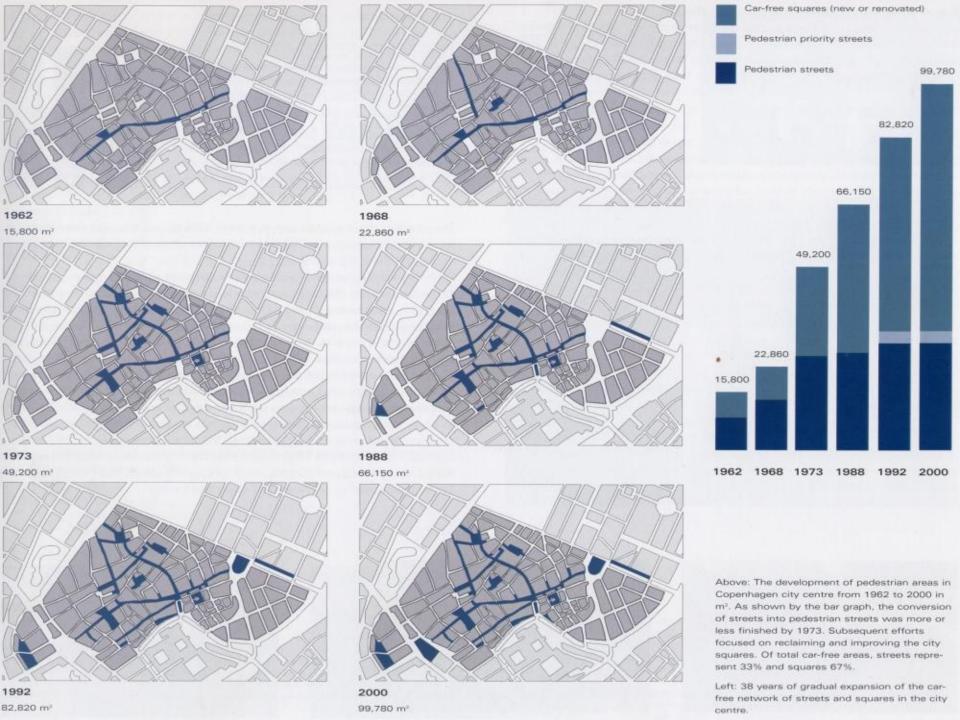
### **Streets**

1800 Begin 1900s to 60's 1970's 2000 onwards

Workplace, transport goods Car encroaches and takes over Pedestrian streets and window shopping

Public space and public realm on streets

# Koppenhagen



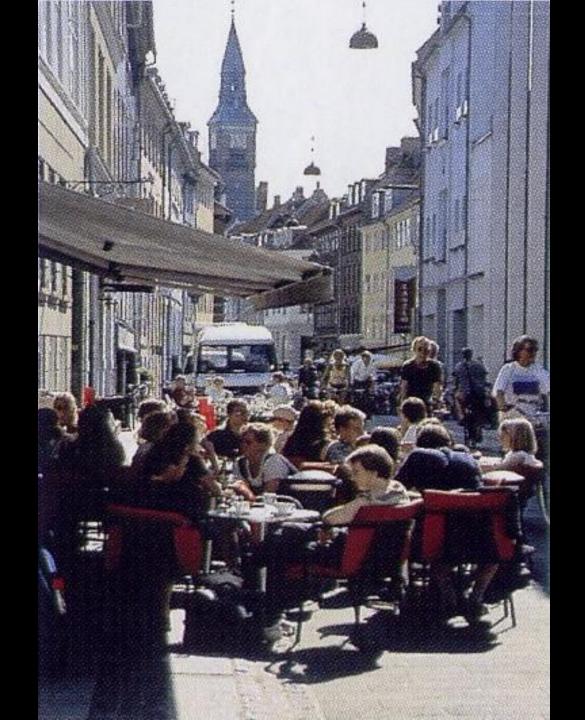








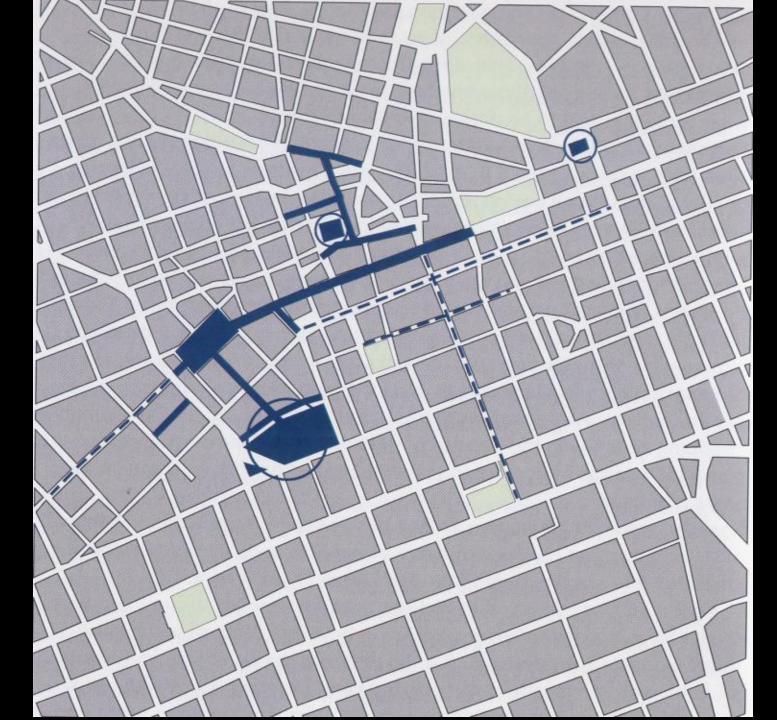




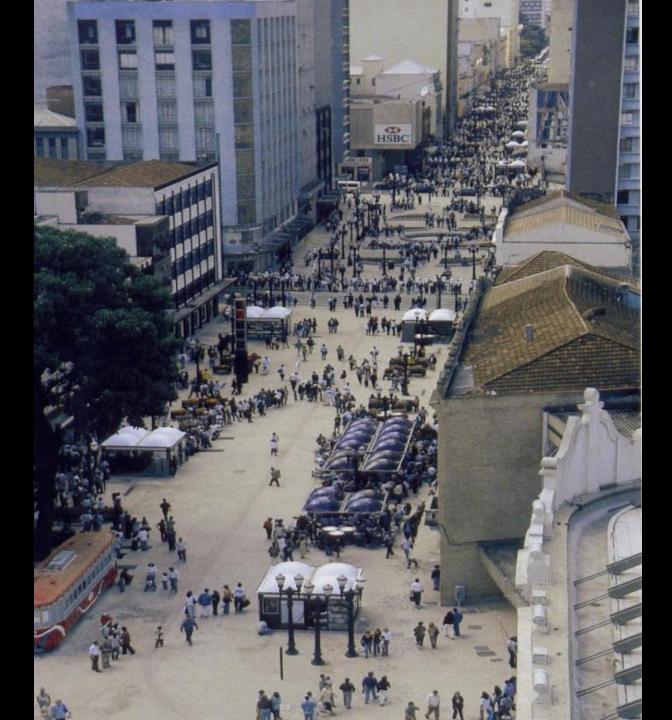
## San Jose, Costa Rica



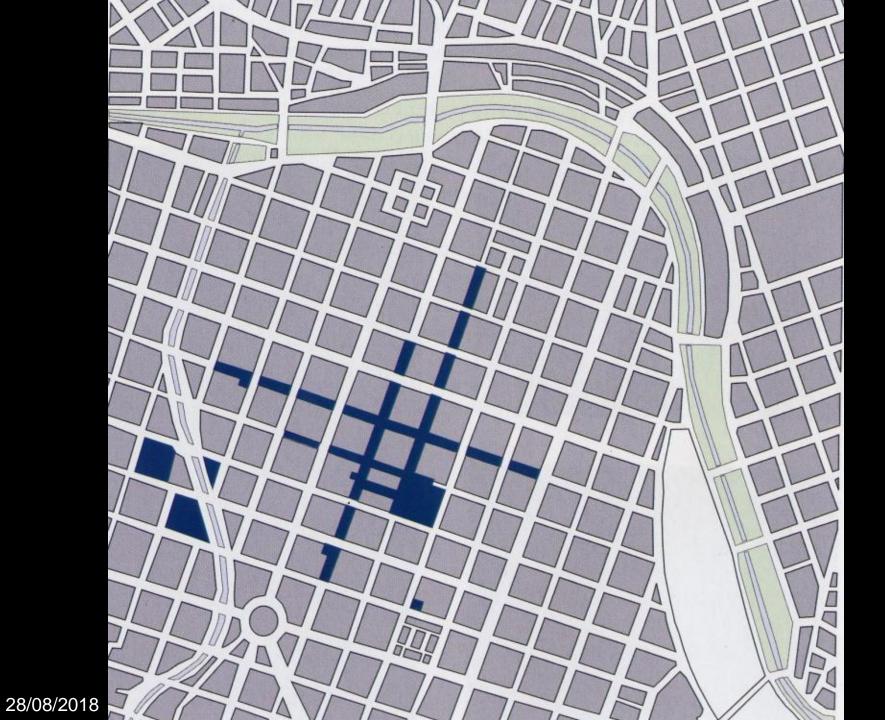
## Curitiba, Brazil







# Cordoba, Argentina







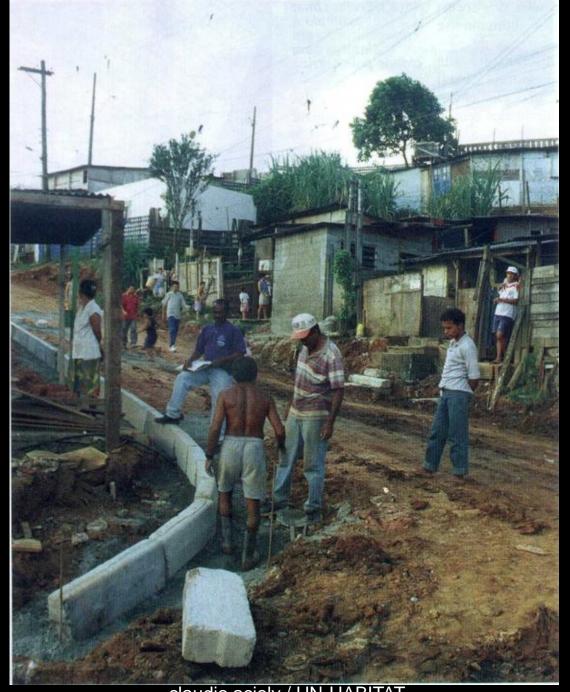




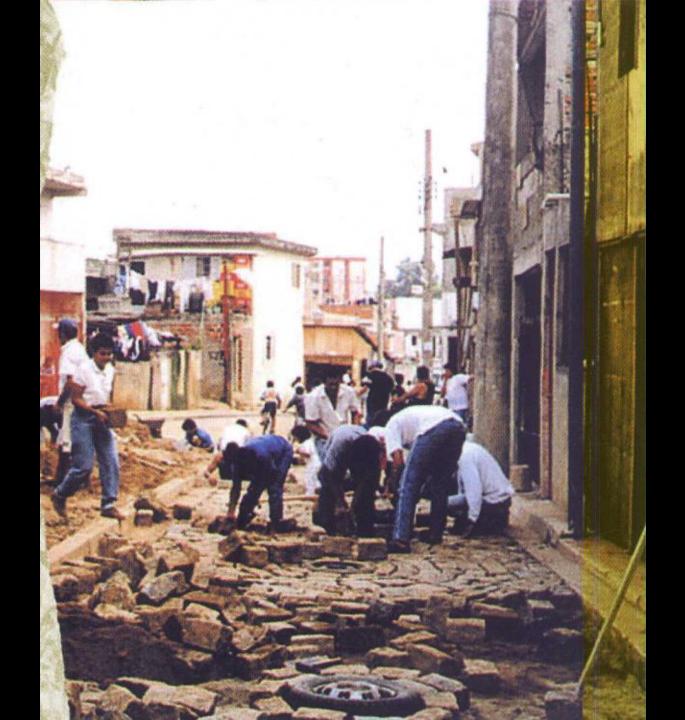
# Santo André, Brazil







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### STREET CONNECTIVITY:

Evidences of the relationship between street connectivity and city prosperity highlights the role of urban structures and street networks.





#### Thirty cities have been selected as a pilot project:

- 1. Manhattan
- Hong Kong
- Barcelona
- Paris
- Amsterdam
- 6. Athens

- 7. Guadalajara
- Medellin
- Brussels
- 10. Tokyo
- 11. Helsinki
- 12. Copenhagen

- 13. Beijing
- 14. St. Petersburg
- 15. Singapore
- 16. Brasilia
- 17. Auckland
- 18. Bangkok

- 19. Kigali
- 20. Chandigarh
- 21. Kolkata
- 22. Abuja
- 23. Ouagadougou
- 24. Dakar

- 25. Addis Ababa
- 26. Georgetown
- 27. Nairobi
- 28. Accra
- 29. Yeravan
- 30. Bangui

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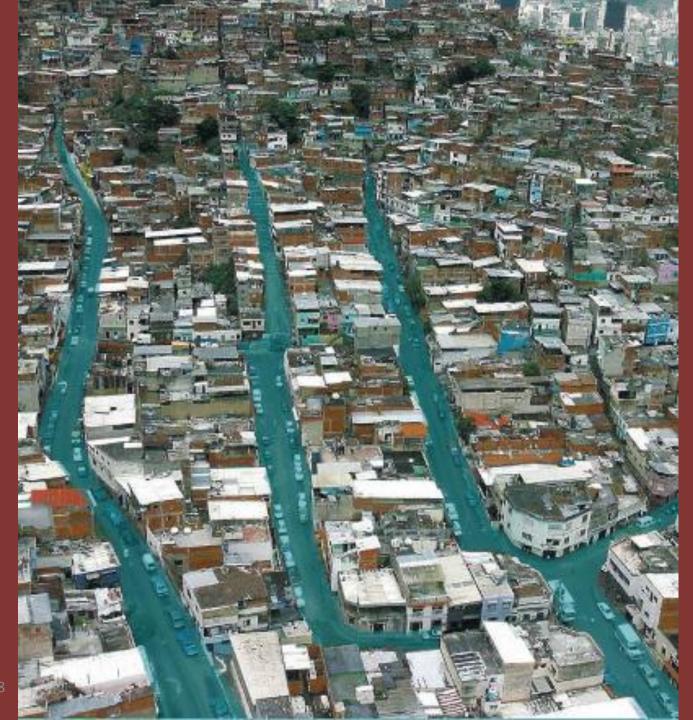












# The higher the street connectivity, the higher the city prosperity index



#### **Streets and Property Development**

- Streets trigger economic activity, attracting shops, services and increased residents' identity with their place of residence, bringing an enhanced sense of security and orderly development.
- Investment in infrastructure (public good) yields private investment on property development and housing improvements (private goods) making street-led slum upgrading an effective tool for increasing property valuation, wealth generation and business incomes which are likely to cause spin-off effects on the prosperity of neighboring areas.

Source: UN-Habitat (2013) 'Streets as Urban Transformation in Slums: a UN-Habitat approach to citywide slum upgrading



## São Paulo, Brazil









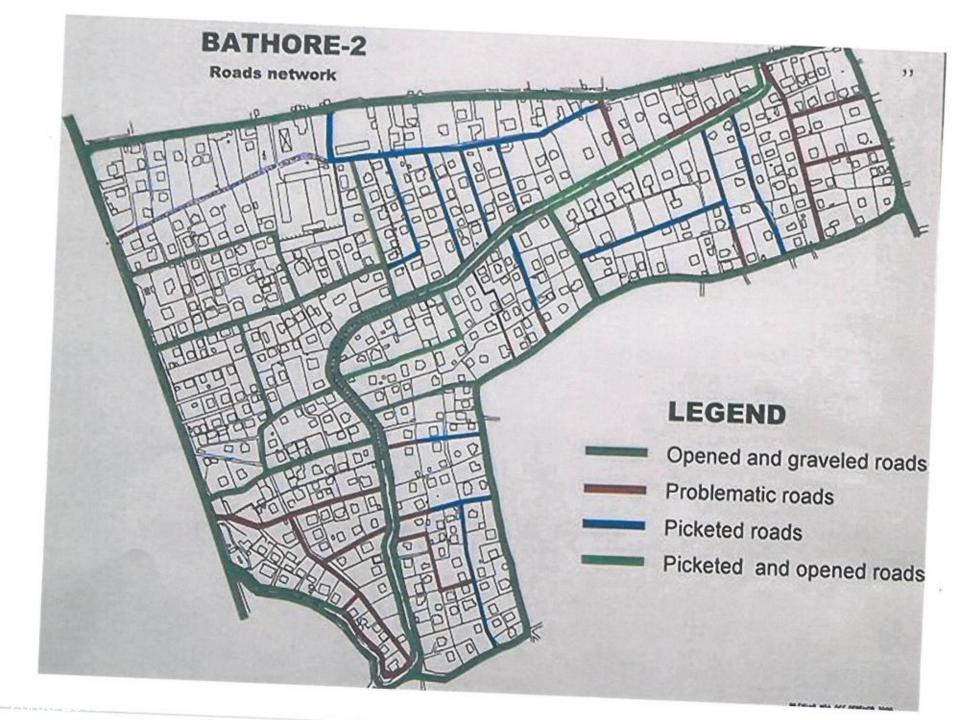




## Tirana, Albania











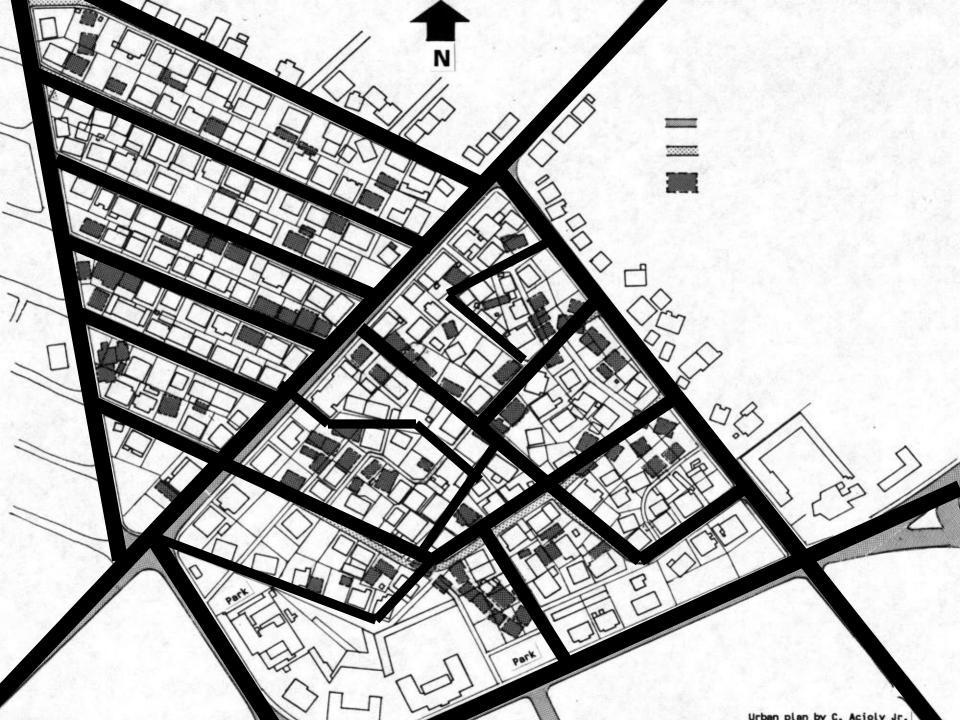


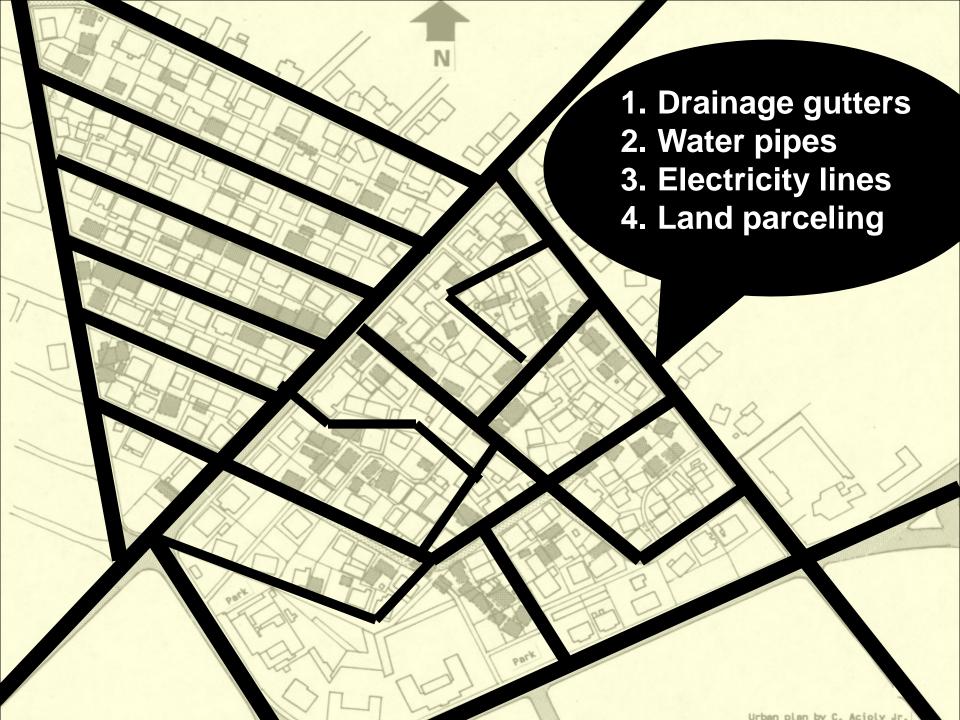


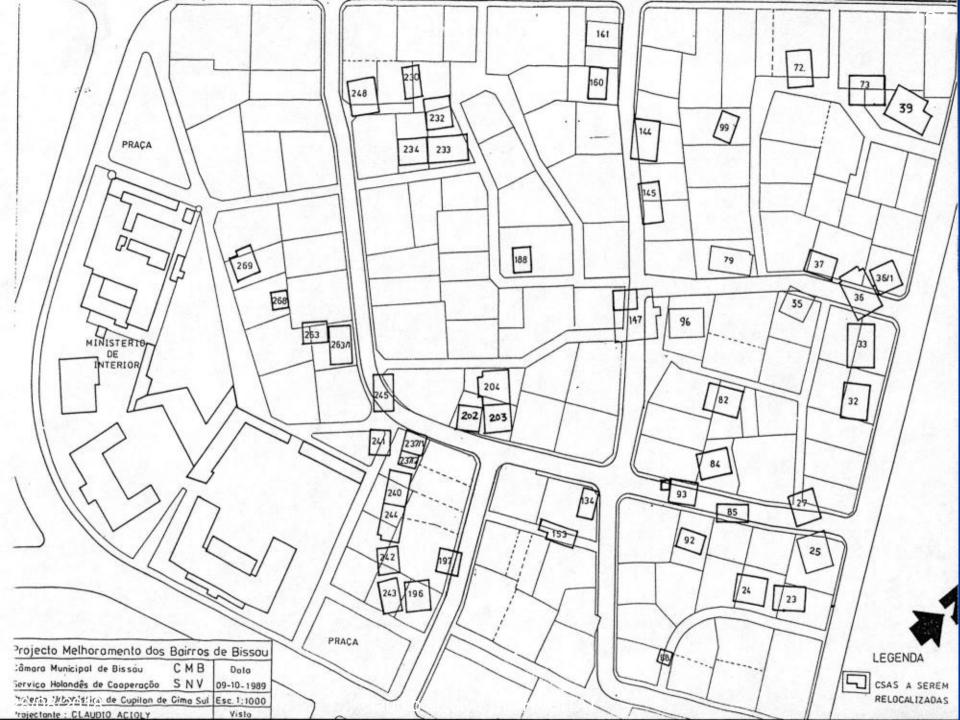




#### Bissau, Guinea-Bissau















# The Problem of Slums in a nutshell

The scale of the problem calls for immediate action to improve the quality of life in the existing stock of slums.

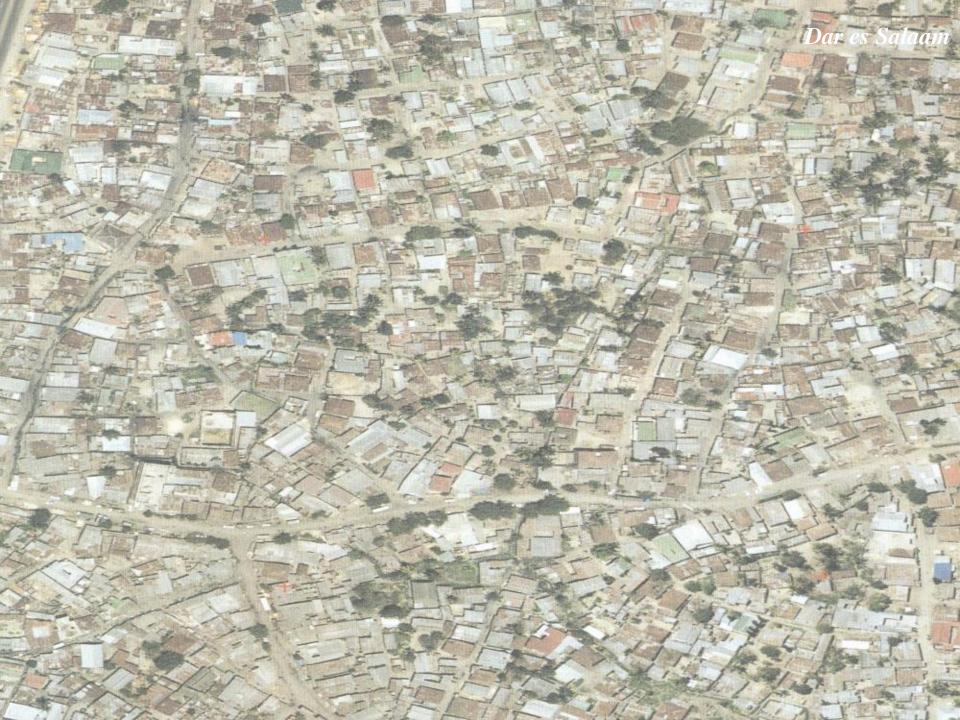






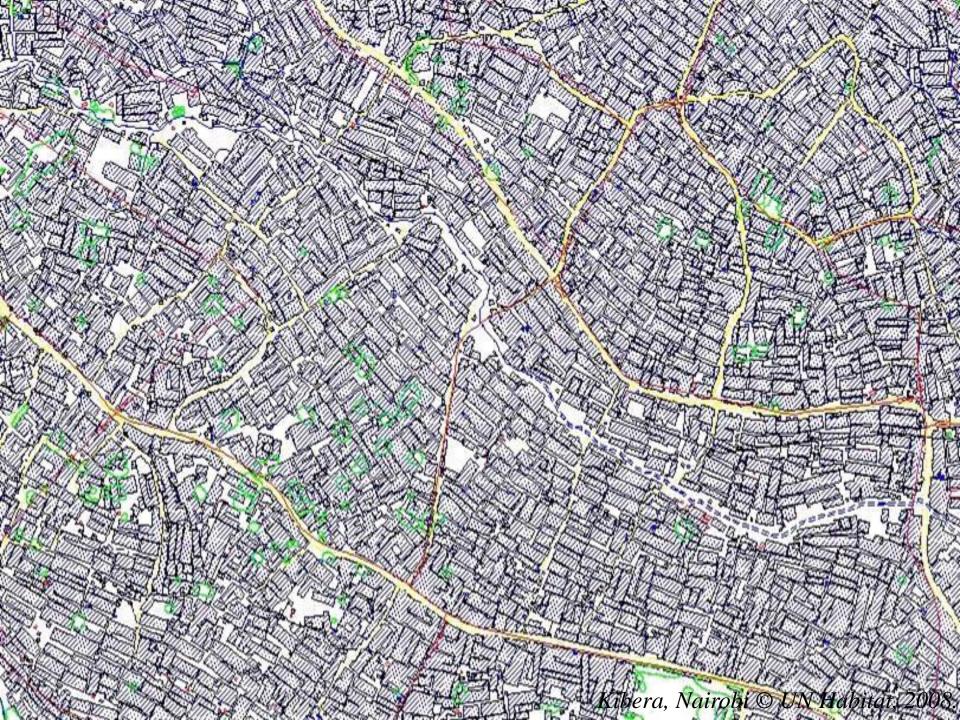




























## The Twin-track approach adopted by UN-Habitat:

Citywide slum upgrading is implemented simultaneously to policies that bring housing opportunities to scale.



#### **Improvement Policies**

- 1. Planning for development
- 2. Strategies to improve existing slums
- 3. Approaches to improve the quality of life

#### **Preventive Policies**

- Plannning BEFORE development
- 2. Solving land delivery bottenecks, planning for today and tomorrow & anticipating urban growth
- 3. Housing Reforms, Urban & Housing Policies
- 4. Measures to access inputs to housing: diversified policies to bring solutions to scale.
- 5. Connecting housing to income

#### **Slum Upgrading Strategies**

Well-informed Policies,
Evidence-based Responses
Urban Policies
Serviced Land Supply
Scaled-up and Diversified,
Anticipative Urban Planning,
Social Pact,
Institutional Articulation
Housing Policies

SLUM UPGRADING
Strategies to
create & strengthen
social & economic
capital.

Opening of streets, planning the layout, Infrastructure, regularisation

28/08/2018

**Urban & Housing Strategies** 





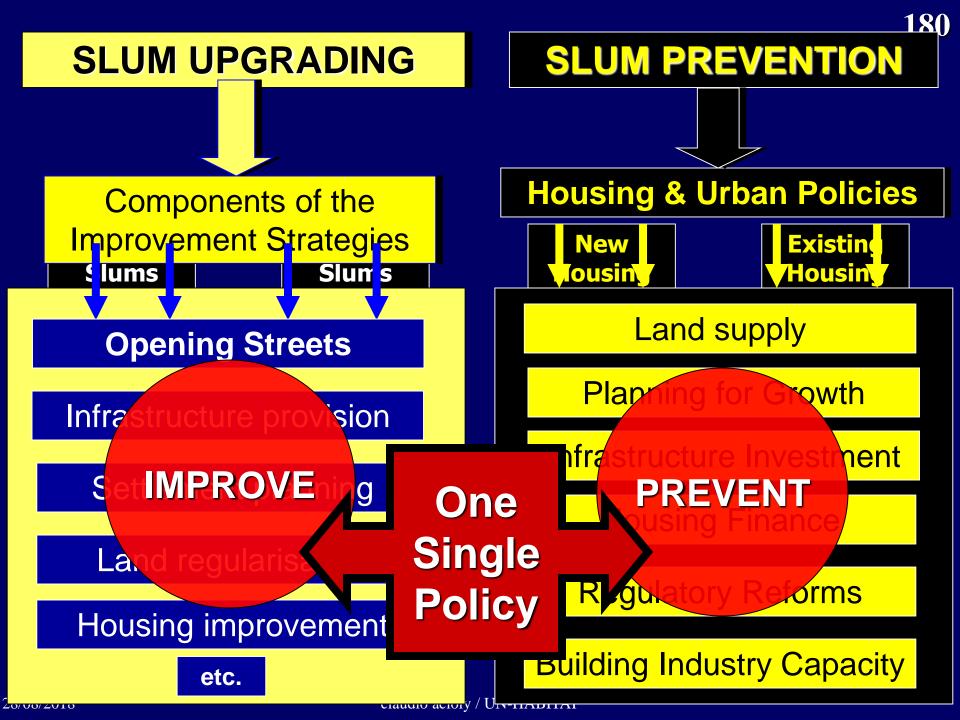
The strategy is to bring housing options to scale and improve existing slums:

Adopting an integrated approach & defining new roles for governments and civil society organisations.



## FIVE Policies to Bring Housing Options to Scale

- Improvement, upgrading and regularization of existing slums must go hand-in-hand with housing at the center of urban policies and strategies leading to a well-performing housing sector and housing supply at scale in diversity of price, location, size, standard and typology;
- 2. Unlock land for housing: serviced land supply at scale;
- 3. <u>Citywide Slum Upgrading:</u> from projects to programme with a menu of interventions that includes streets, urban planning, citizen participation, mapping, infrastructure, land allocation, security of tenure, economic development, etc.
- 4. Different forms of self-financing e.g. property tax, plus-valia, value capture, TDR
- Knowledge and data/information to sustain evidence-based policies





## Citywide Slum Upgrading:

How do we actually do it?

Understanding & managing the process.

From project to program & vice-versa.





Priorities & Program
Components: CP,
Infrastructure, Roads &
Accesses, Housing,
Employment, Tenure, Services,
etc.

WHAT?

SETTLEMENT UPGRADING.

Institutional setting, Organization, Responsibilities, Project & Program Management

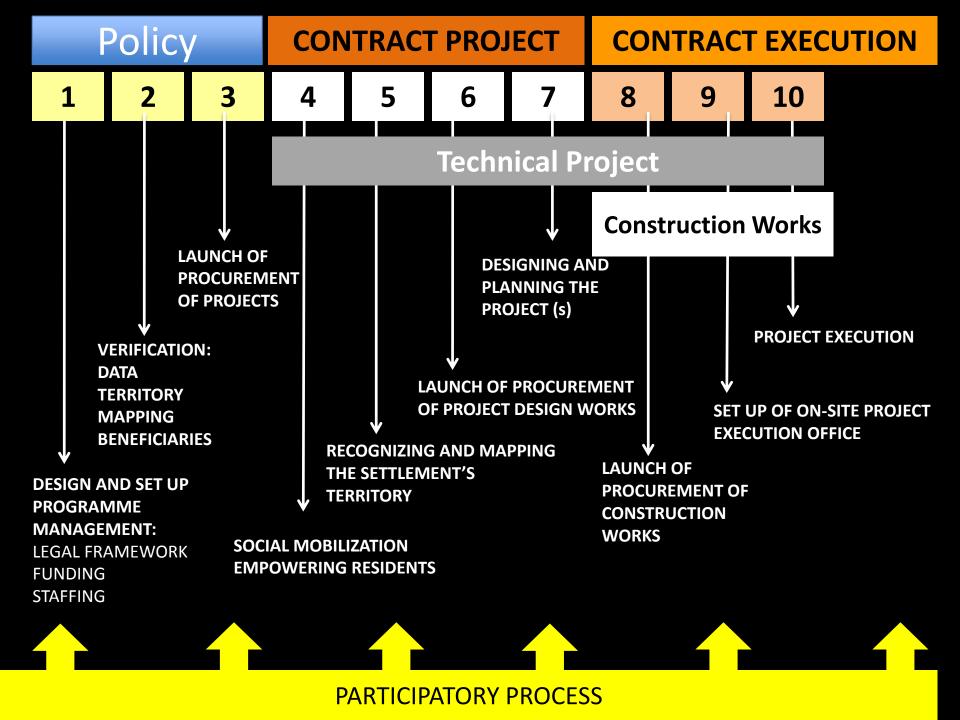
WHO?

Strategies, Methods, Tools and Techniques

<u> HOW?</u>

Economics & Finance, Cost Recovery, Replicability and Sustainability

**HOW MUCH?** 



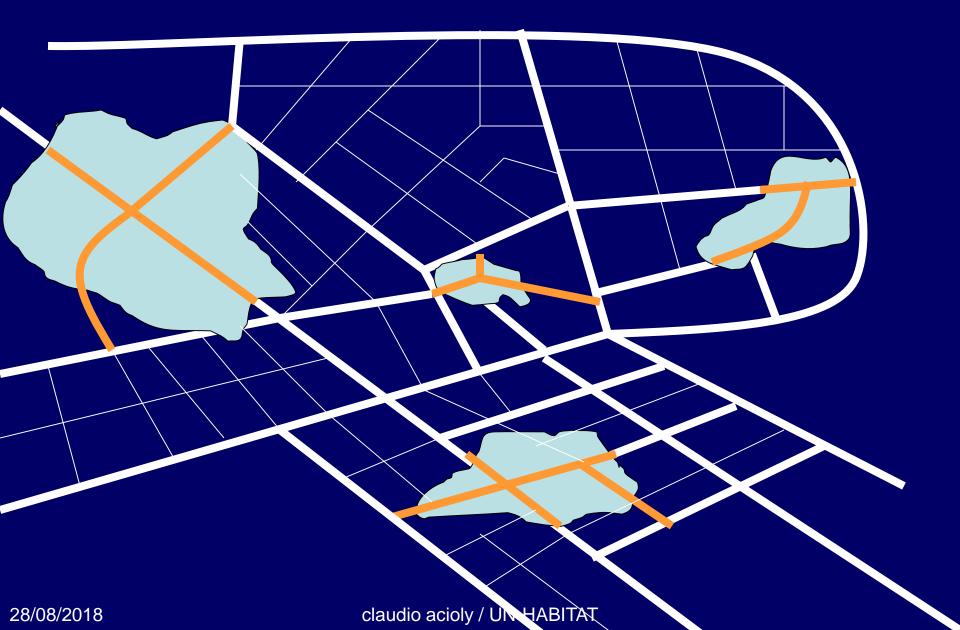


### Streets in Slum Upgrading:

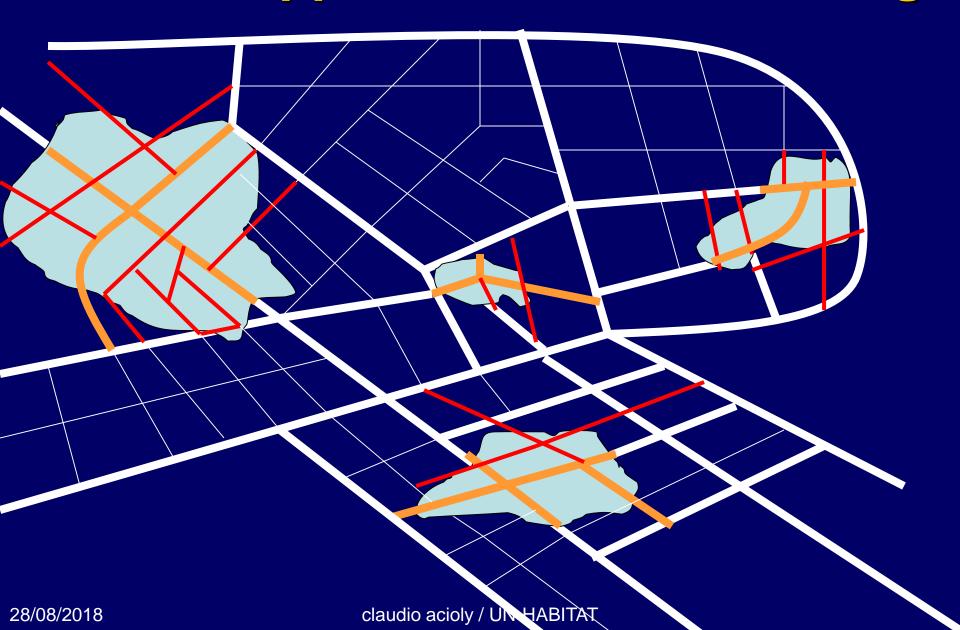
A gradual process of street-making and the execution of the area-based plan that enables an optimal use of scarce resources.



### Street-led Citywide Slum Upgrading



#### Phased Approach to Street-making





## The Lusaka Slum Upgrading and Sites & Services Project, Zambia:

Pioneering the planning & regularisation of informal settlements in Africa using street-based planning teams

## PLANNING OUR OWN ROADS

- Community Participation -

#### OFFICE OF THE PRIME MINISTER

DECENTRALISATION DIVISION
Chalimbana Training Institute
LUSAKA P.O. BOX 50027
ZAMBIA

Drawings by: Les Eliphas APRIL 1990



Plate 3.2 The Road Planning Group, together with community development staff and technical advisers, walks along a potential route for a road in Lusaka.



Plate 3.3 The Road Planning Group's proposals are put down on paper and discussed before a final commitment is made. Here they are shown being presented by the chief engineer, the architect and the chief community development officer.



Plate 3.4 One of the consequences of participation in decision-making. Residents demolished their own houses, almost for the fun of it. No one had to be evicted by force.

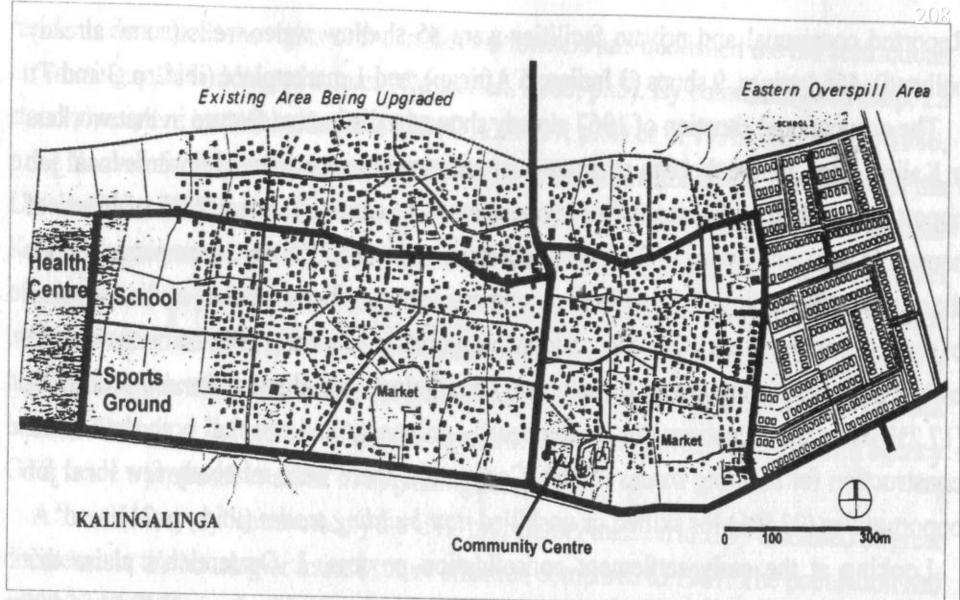
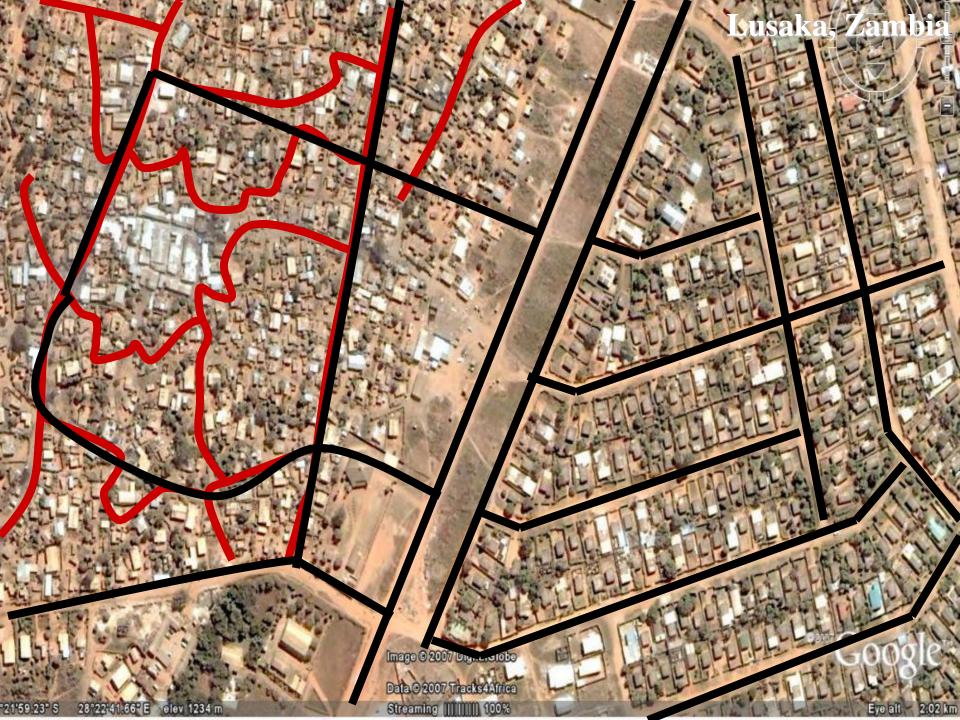


Figure 11.1 Map of Kalingalinga

Source: GRZ Survey Department and Goethert/Oestereich, 1987





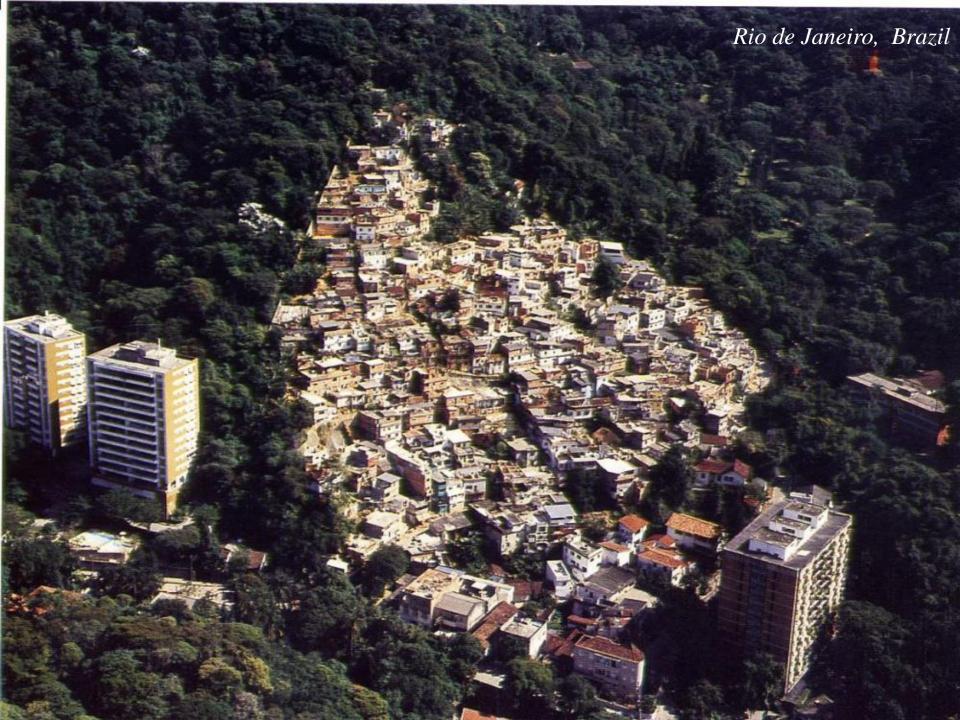
# ZIZIZ BAIRRO

# Managing a citywide Slum Upgrading Programme

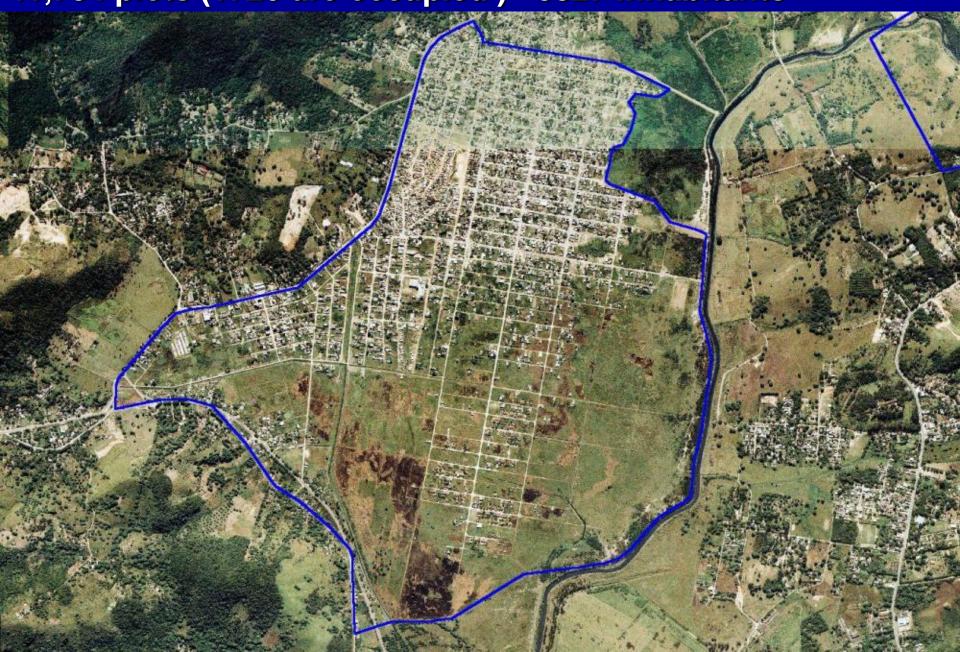
The institutional, organisational and management aspect of the Favela-Bairro Programme.

1. Mapping location of the favelas & loteamentos irregulares & clandestinos was the first important step to know the scale and location of the slum problem in the city.





Illegal subdivision in Guaratiba called Jardim Maravilha - 11,754 plots (1720 are occupied) - 5527 inhabitants





Sewerage



**Accessibility** 



Legislation



Square



Maintenance



**Housing Construction** 

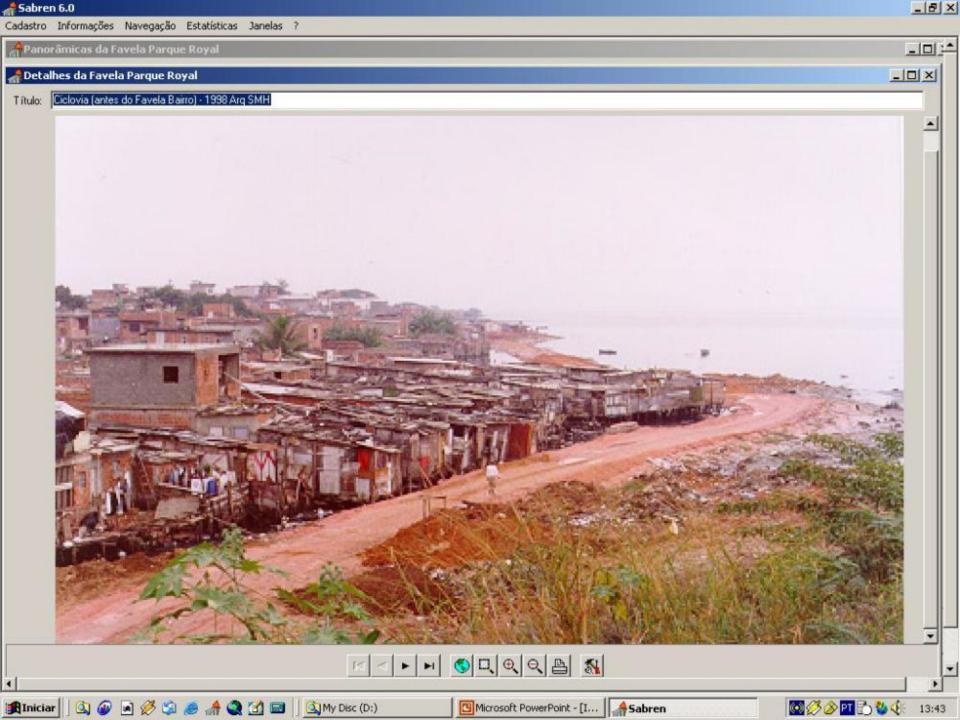


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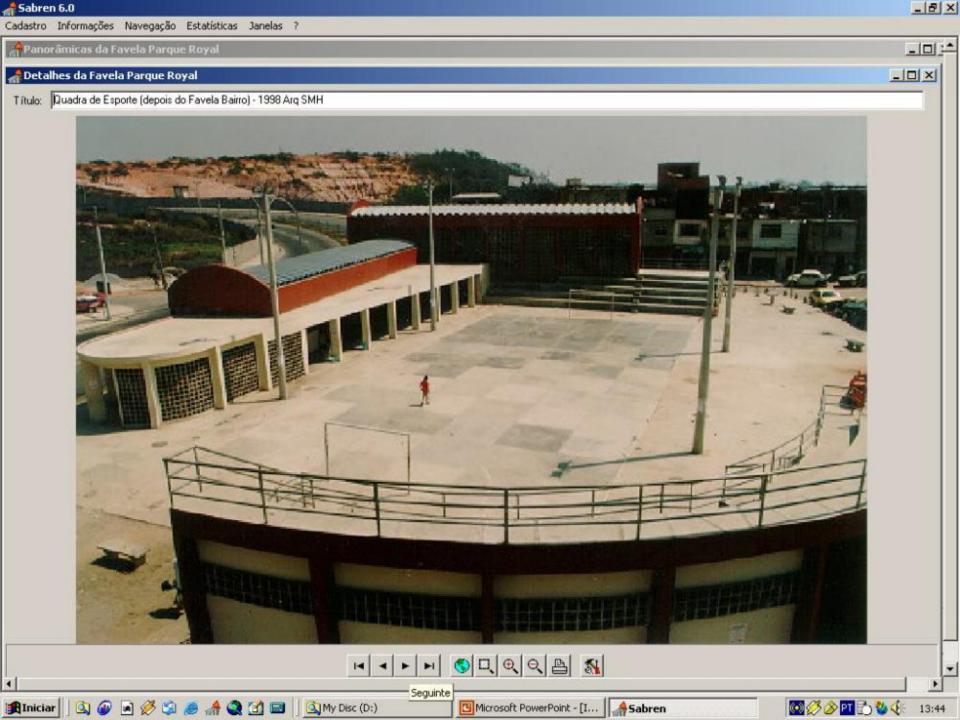


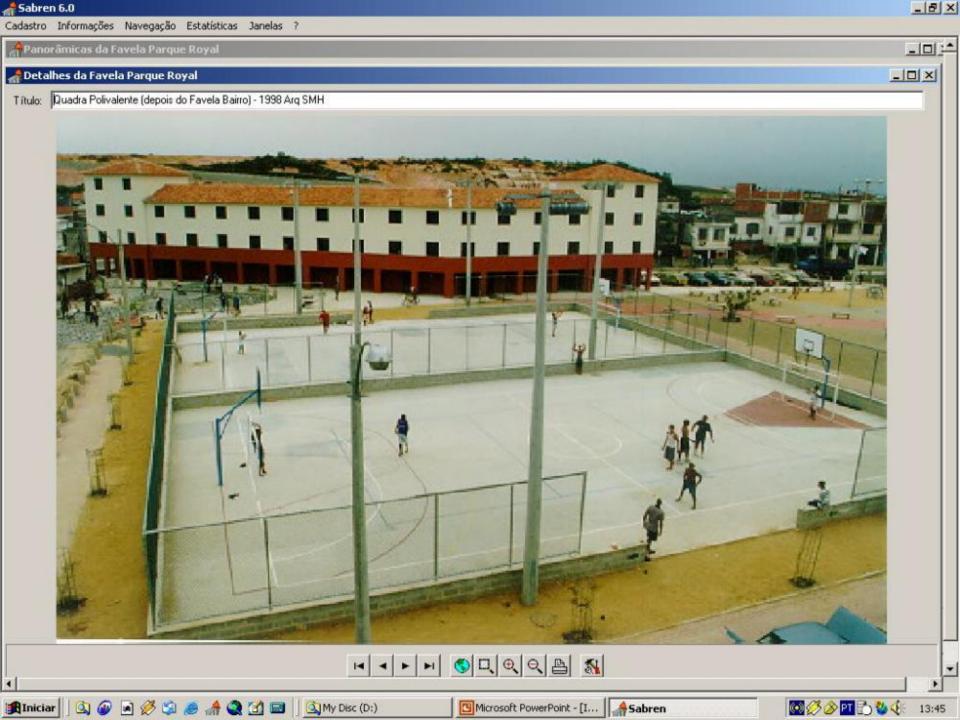


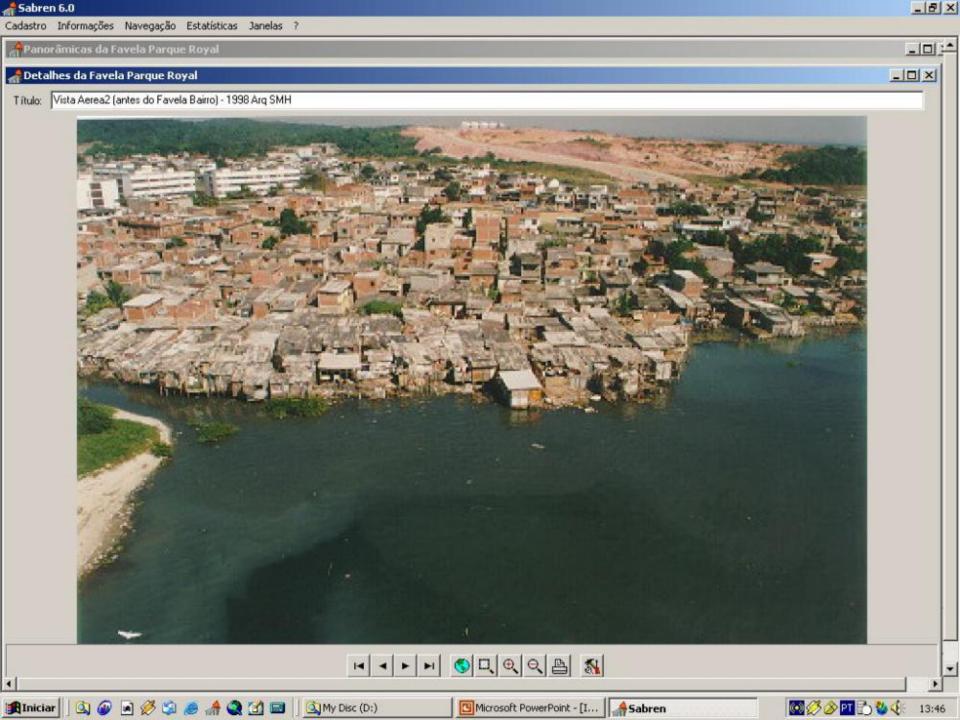


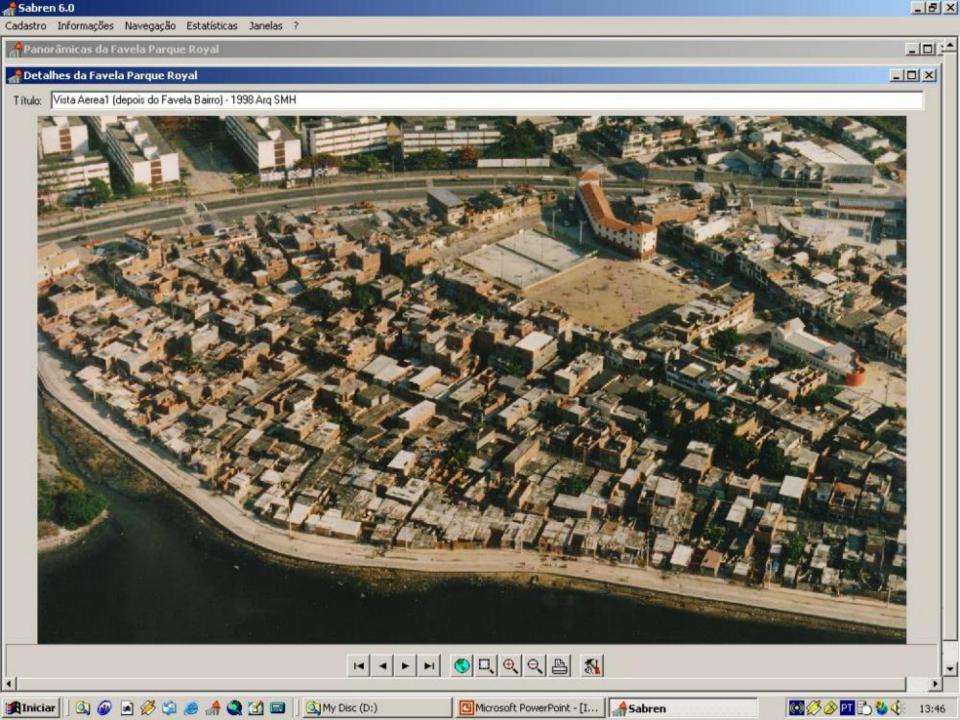




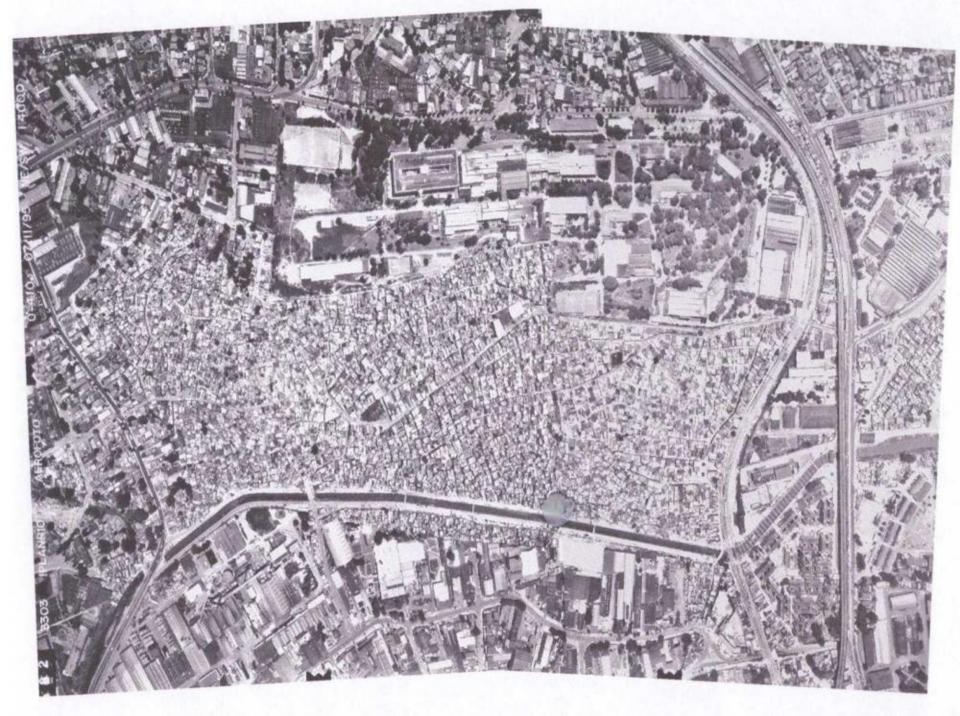


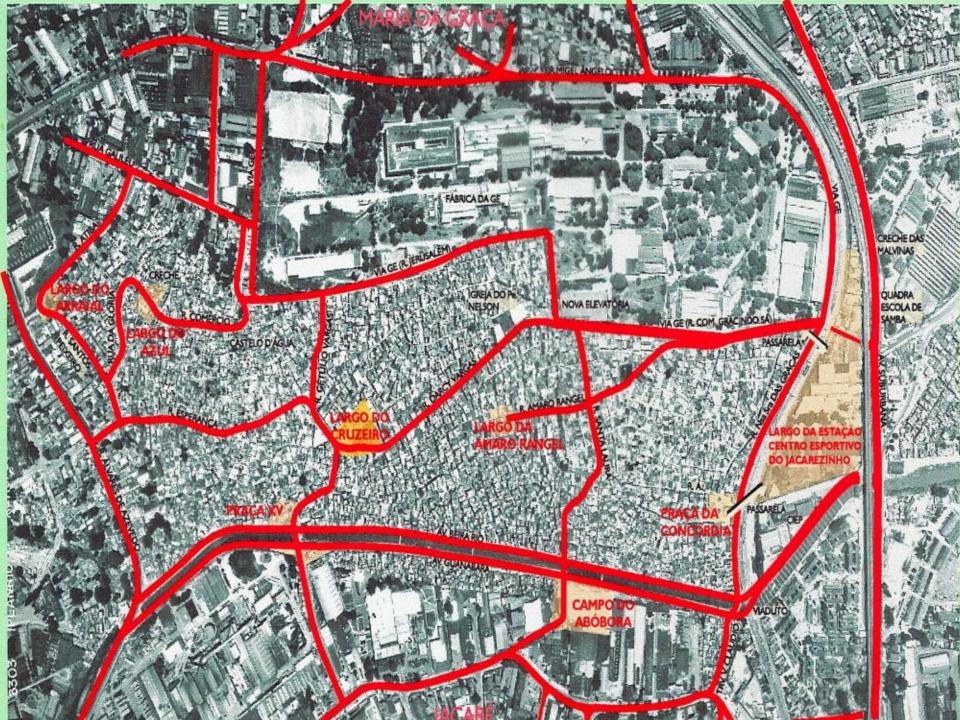






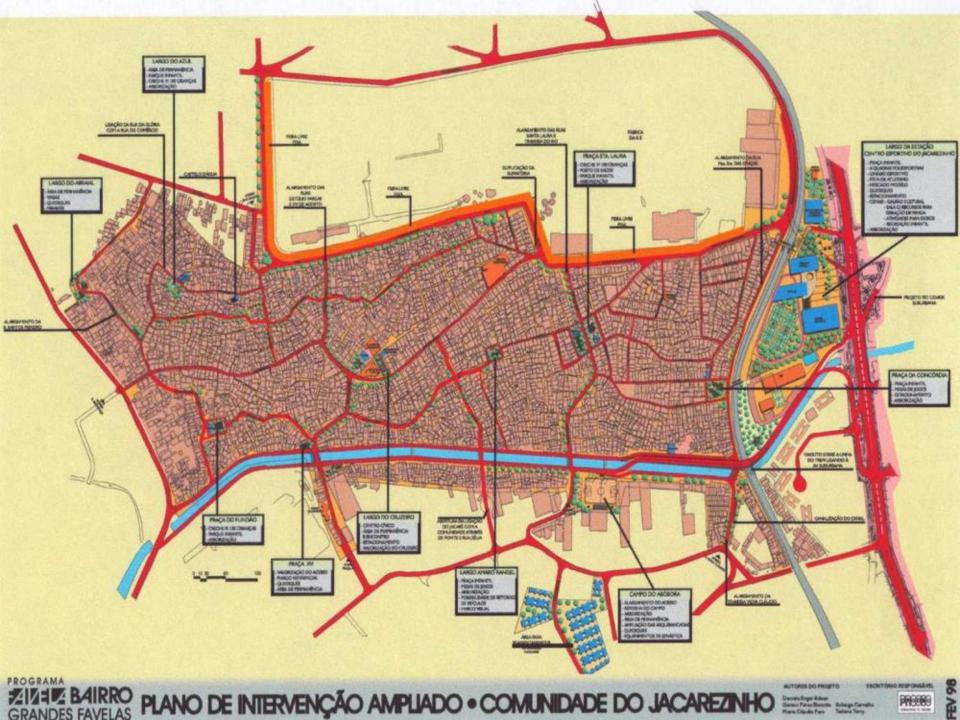






















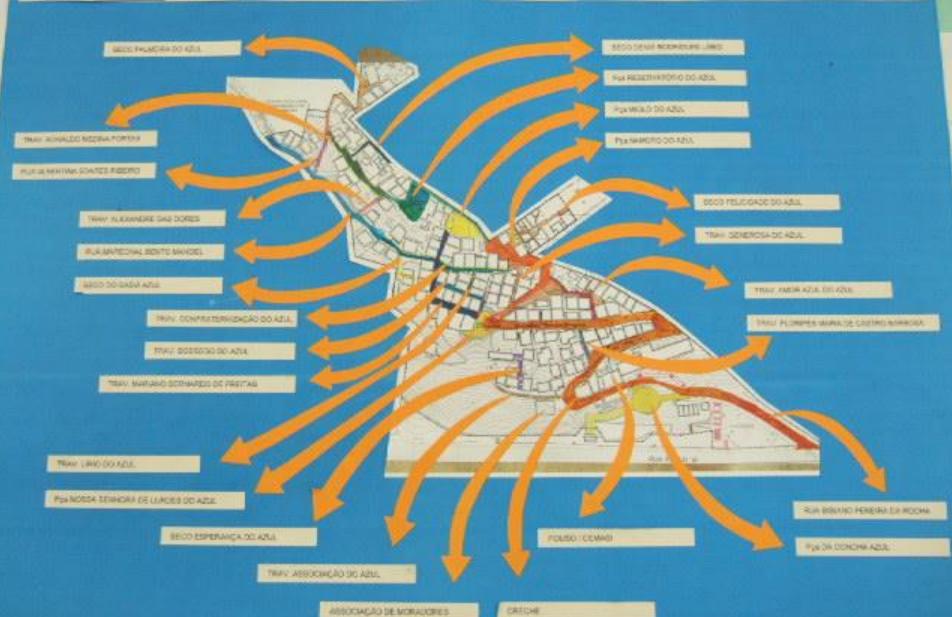
### Street Addressing in Morro Azul:

- 1. Demand for recognition by residents: a street name, house number, and a post code means citizenship rights (Post Office and other public services)
- 2. Residents meet, organize consultation and propose names (not be murdered or have criminal records, and be endorsed by community)
- 3. Street identification increases identity and sense of ownership, plus pride and self-esteem
- 4. Point of departure for other municipal interventions: the place has a name and a location



#### LOGRADOUROS RECONHECIDOS DO BAIRRO AZUL





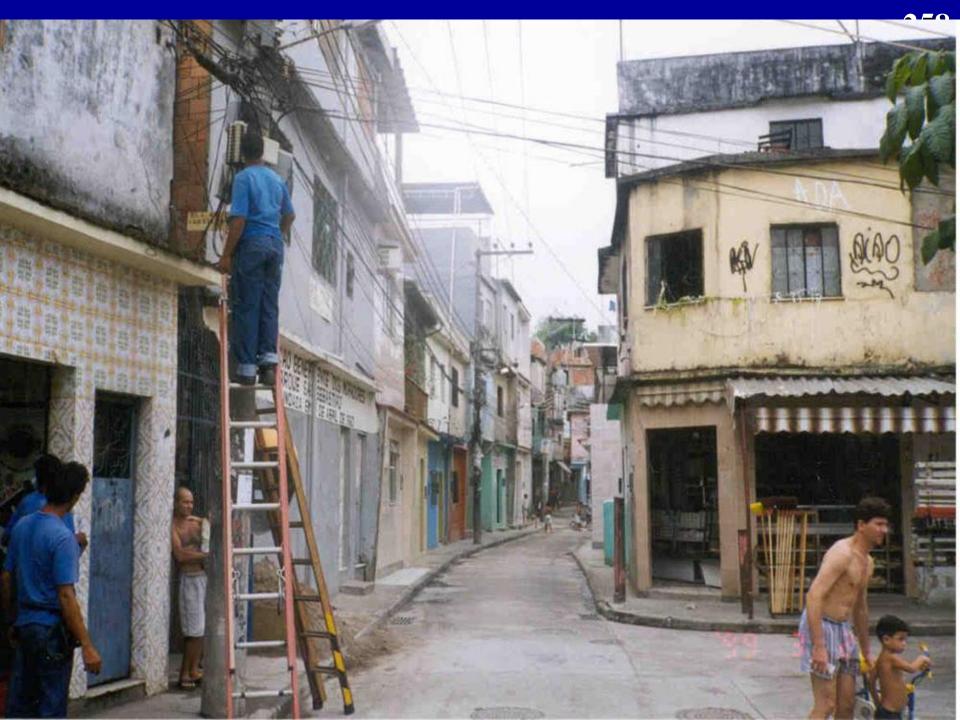






### QUADRA MARCELO DO AZUL

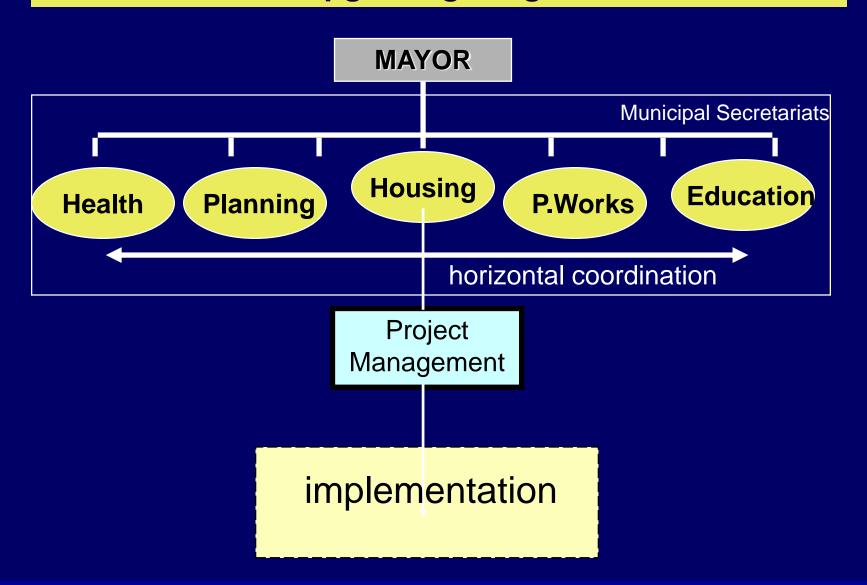




### How was the programme executed?

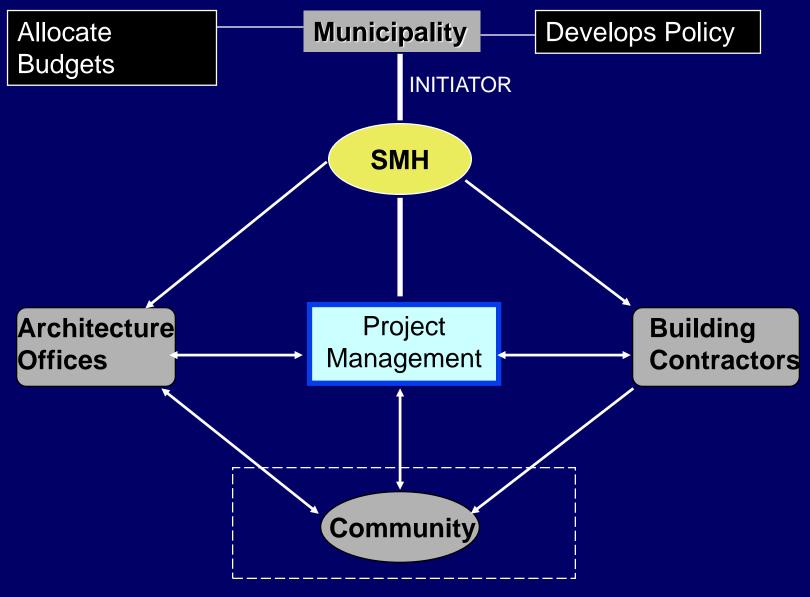
- 1. Agreeing on who initiates and coordinates the policy within the municipality.
- 2. Defining the coordination mechanisms
- 3. Setting up the programme management system
- 4. Defining roles and responsibilities of different actors, public, private, community
- 5. Commissioning development of methodology for programme intervention at settlement level

#### Rio de Janeiro's Upgrading Program - Favela Bairro

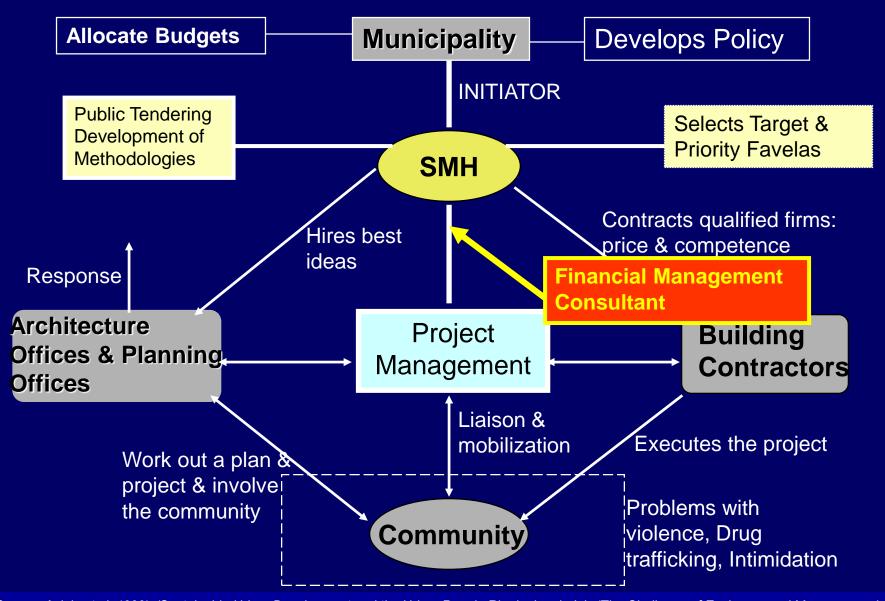


Source: Acioly et al, 1999). 'Sustainable Urban Development and the Urban Poor in Rio de Janeiro', in 'The Challenge of Environmental Management in Urban Areas', M. Mattingly, E. Fernandes, J. Davila and A. Atkinson (eds), Ashgate, London, UK, 1999. (pp. 127-138). Acioly, Claudio. (2001) "Reviewing Urban Revitalisation Strategies in Rio de Janeiro: from urban project to urban management approaches", in GeoForum, Special Issue on Urban Brazil, Volume 32, Number 4. November 2001. UK. Elsevier. pp. 509-520.

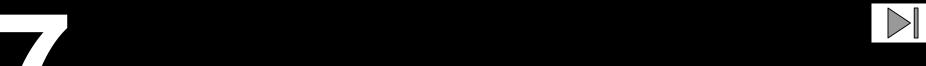
#### Rio de Janeiro's Upgrading Program - Favela Bairro



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Source: Acioly et al, 1999). 'Sustainable Urban Development and the Urban Poor in Rio de Janeiro', in 'The Challenge of Environmental Management in Urban Areas', M. Mattingly, E. Fernandes, J. Davila and A. Atkinson (eds), Ashgate, London, UK, 1999. (pp. 127-138). Acioly, Claudio. (2001) "Reviewing Urban Revitalisation Strategies in Rio de Janeiro: from urban project to urban management approaches", in GeoForum, Special Issue on Urban Brazil, Volume 32, Number 4. November 2001, UK, Elsevier, pp. 509-520.





### The Design of the Slum Upgrading project intervention:

The area-based plan and the urban layout will define the most adequate street pattern that will determine the future configuration of the settlement: it must deal with the scale, standard and forms of tenure regularisation

#### Street-led Slum Upgrading Project Cycle

#### **Getting Started**

#### **Getting the Plan**

#### **Implementation**

#### **Post-Upgrading**

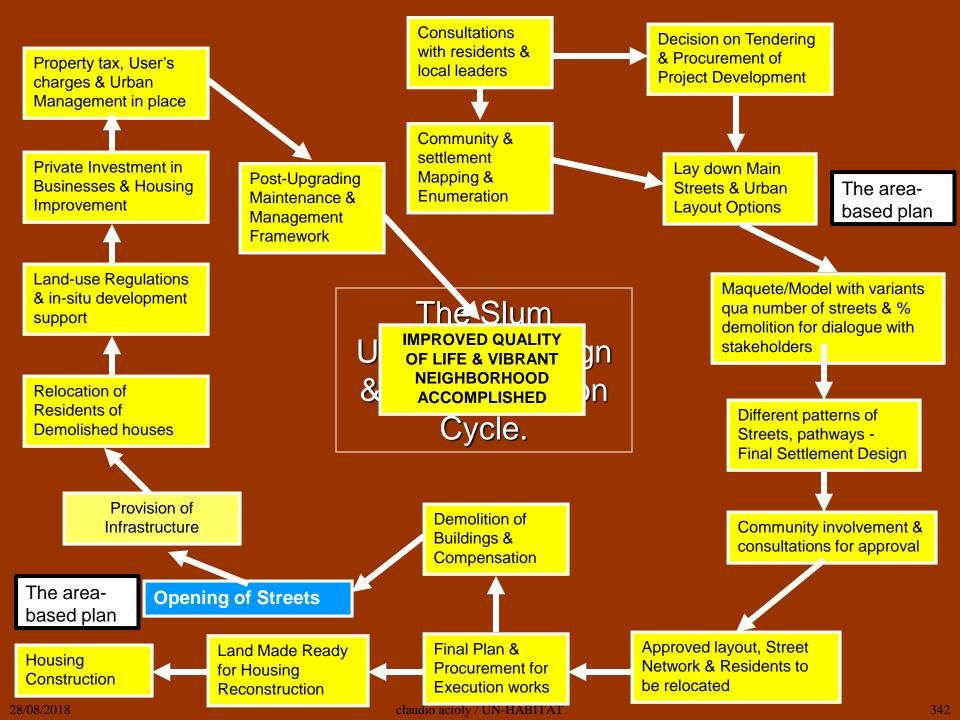
- 1.Consultations with residents and local leaders
- 2.Community
  Mapping &
  Enumeration
- 3. Inventory of infrastructure networks & situation analysis
- 4.Project development through procurement

- Preparing a model, maquette
- 2.Designing the urban layout plan& the street pattern
- 3.Community consultations & Street prioritisation
- 4.Approval of final layout Design & Community endorsement

- Final Plan for procurement & execution works
- 2.Demolition, compensation,
- 3. Opening Streets
- 4.Land & Infrastruture provision
- 5.Housing construction
- 6.Resettlement

- Social Pact for community management
- 2.Land-use and building regulations
- 3.Home improvement programme
- 4.Property tax and user's charges
- 5.Maintenance and management framework

#### Incremental Development Process



place

#### **Post-Upgrading**

Getting the Legal & Istitutional Basis Right Setting Regulations Organising Financial Sustainability

1

#### **Getting Started**

Establishing the Status-quo

Status-quo

Restablishing the Status-quo

Project Setup

Project Setup

5

Development Maintenance & Management

2

#### Getting the Plan

Participatory Planning
Urban Design
The Street as locus

Approved layout, Street Network & Residents to be relocated

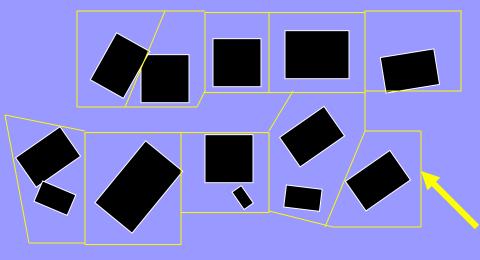
3

#### **Execution**

Project Implementation
Demolition, Success, Housing

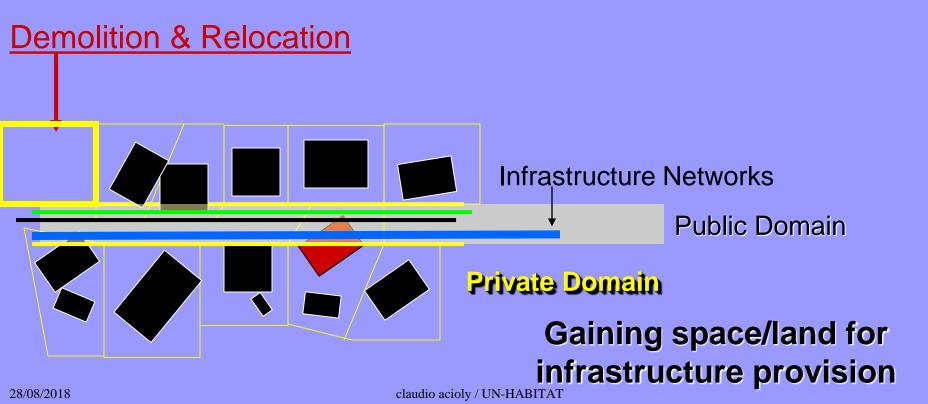
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#### **Getting the Planning right**

Defining the existing and future private domain – housing unit + land parcel





## 10.

### Some conclusions...





### The End

Thank you!



### **END CONTENT**



- A. Virtuous Cycle of Capacity Building in Slum Upgrading
- B. Streets and Public Spaces: where we come from
- C. Street Connectivy and City Prosperity
- D. Introduction: the problem, scale and scope of slums globally
- 1. The Twin-track Approach
- 2. Bring housing to scale & upgrade existing slums
- 3. The Citywide Approach
- 4. Rio de Janeiro, Brazil: streets as integration & citizenship
- 5. Medellin, Colombia: streets as public space & urban mobility
- 6. Problems & Obstacles hindering street-centred slum upgrading
- 7. The Project Design: street, scale, standards, security of tenure
- 8. UN-HABITAT strategy: steps and components of slum upgrading
- 9. Streets against land regularisation: most critical problem
- **10. Some Conclusions**

