



**CURITIBA**  
A CIDADE DA GENTE

**transit**

**DEVELOPMENT** done **RIGHT**

**Conference**

References of Curitiba for Sustainable Development

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SALT LAKE CITY

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# Sustainable Development

*“Sustainable development is the one that meets needs of the present without compromising the ability of future generations to meet their own needs.”*

*Italo Calvino.*

# Conceptual Framework of the Sustainable Urban Planning



**Sustainability relates to the existence of a balanced relationship between people and nature, or between society and its environment.**

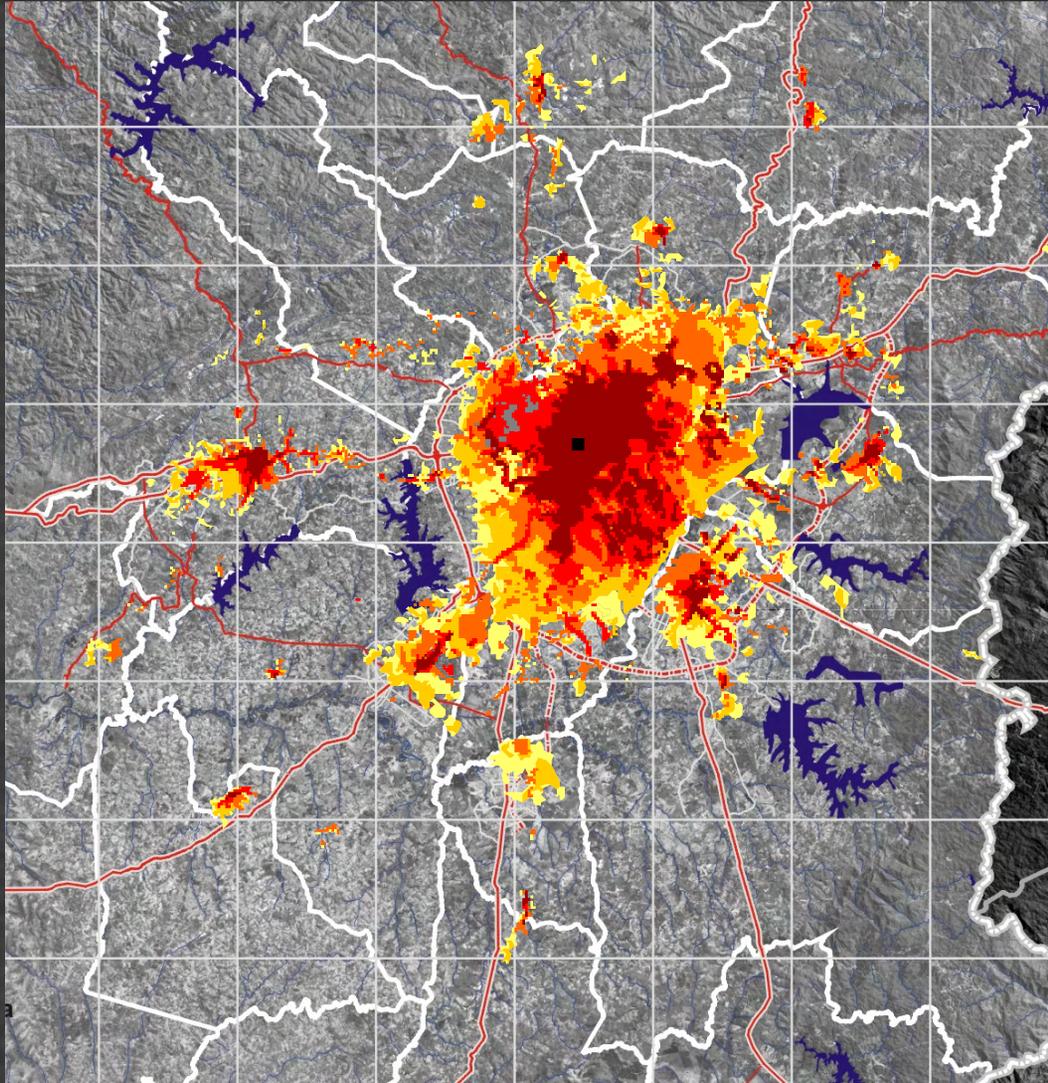
**The concept is linked to social inclusion, environmental preservation, economic feasibility and institutional continuity.**

**The Curitiba process:  
PLANNING  
MANAGEMENT  
MONITORING**

# Curitiba



# Evolution of Urban Growth



## Curitiba and Metropolitan Region

YEAR	POPULATION
1955	360.000
1965	550.000
1975	1.140.000
1985	1.700.000
2000	2.770.000
2014	4.000.000

# Curitiba's Master Plans

# Master Plans

AGACHE PLAN  
1943



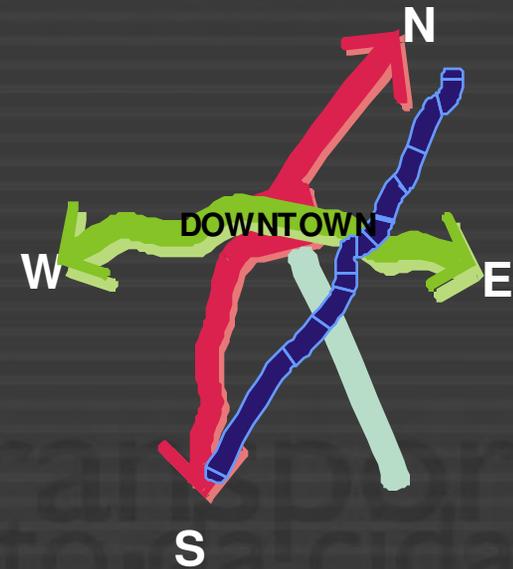
Radial and  
Perimetral Growth

MASTER PLAN  
1966



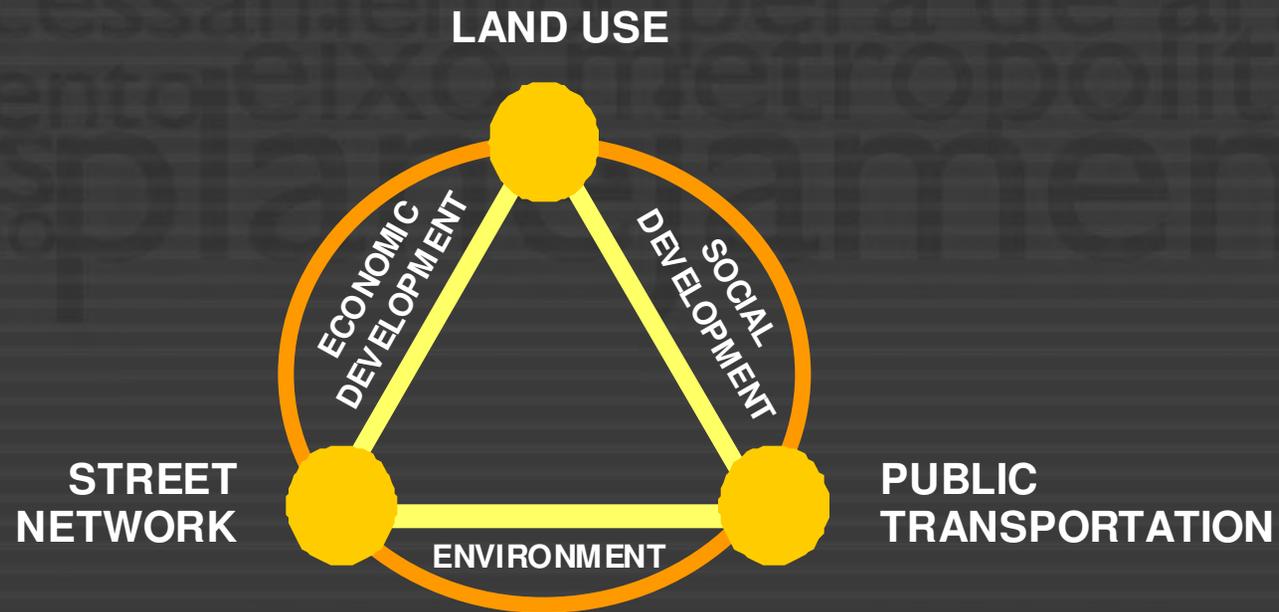
Linear Growth

MASTER PLAN / CITY ACT  
2004



Setting down of city structure  
and metropolitan approach

# Principles of Urban Planning



## Change in the city

- physical
- environmental
  - cultural
- economical
  - social

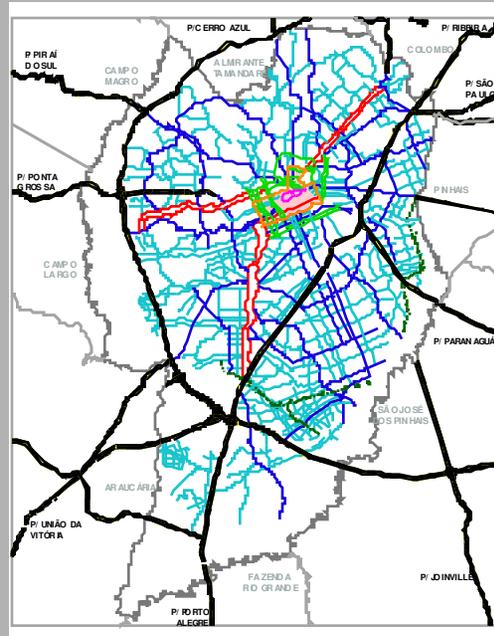
# Integrated Planning

Physical change

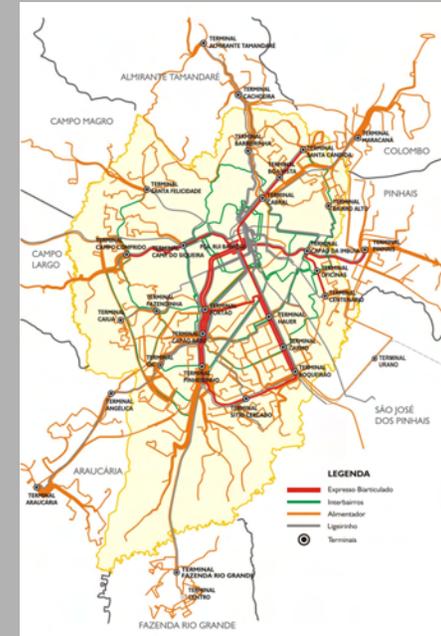
## Zoning



## Road Network



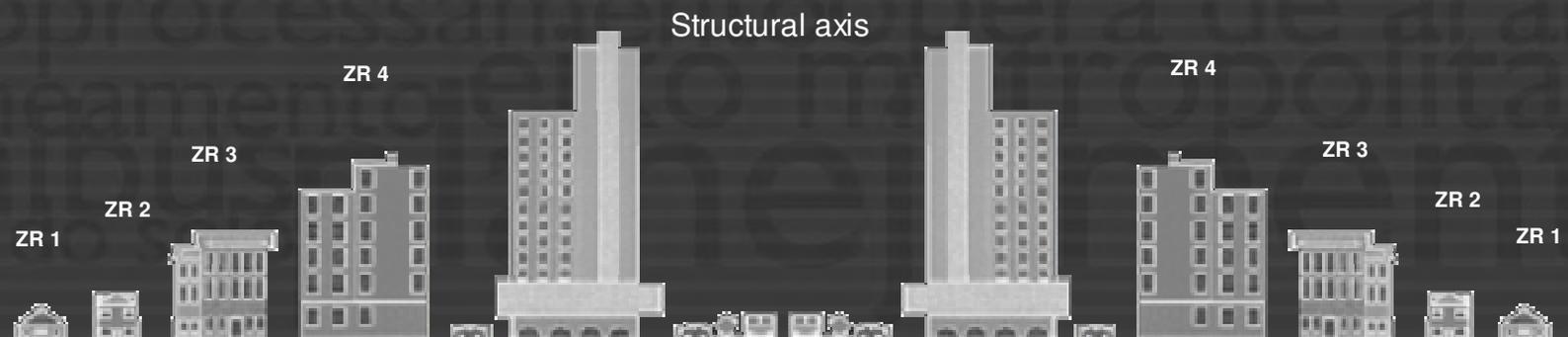
## Transportation



17%	Preservation
58%	Mainly residential
16%	Mainly commercial/ services
6%	Mainly industrial
3%	Mixed use areas



# Structural Corridors



# Structural Corridors

Population along structural corridors

North: 67.405 inhabitants

South + East: 170.998 inhabitants

West: 33.466 inhabitants

**TOTAL: 271.869 inhabitants**

Business activities: 14.684

South axis

West axis



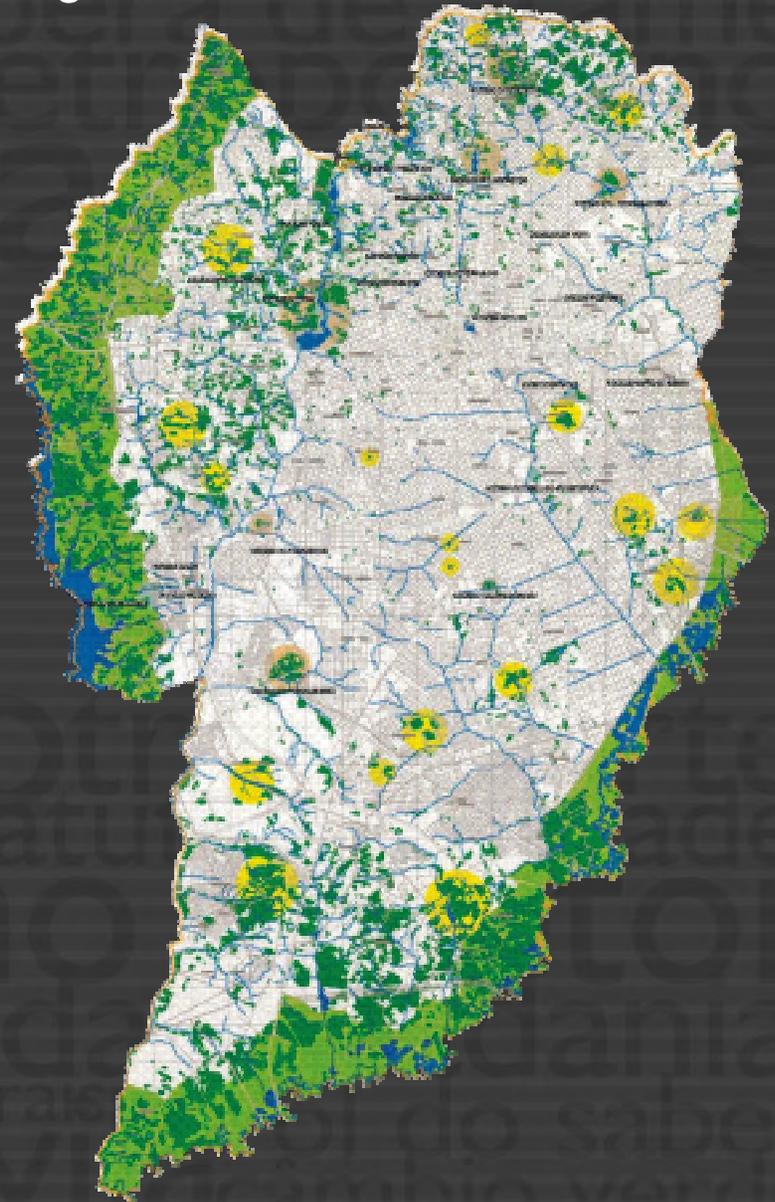
# Integrated Planning

Environmental change

## System of Conservation Units

51,50 m<sup>2</sup> of green area / inhabitant

- 17 parks and 14 woods
- 429 squares
- 346 public gardens
- 52 pedestrian areas
- 11 environmental nuclei
- 14 entertainment axes
- 6 environmental gardens



# Environmental Preservation



# Integrated Planning

Cultural change

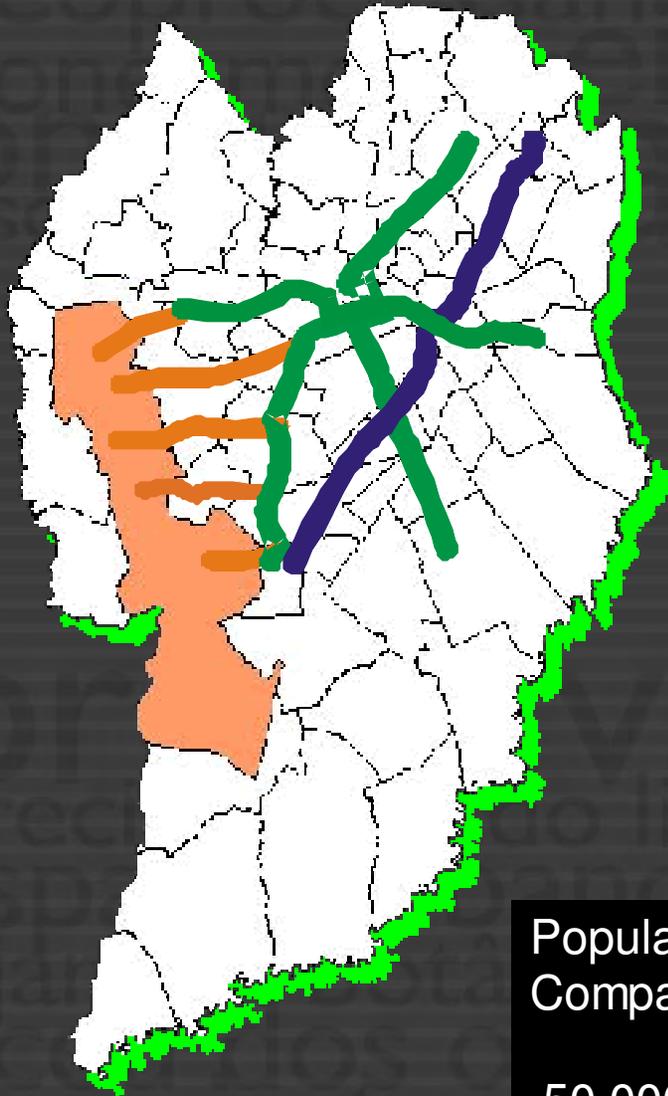


Human scale  
Priority for pedestrians  
Culture



# Integrated Planning

Economical change



1973 - Industrial District of Curitiba

Population: 157,461 inhabitants  
Companies: 5202

50,000 direct jobs  
150,000 indirect jobs

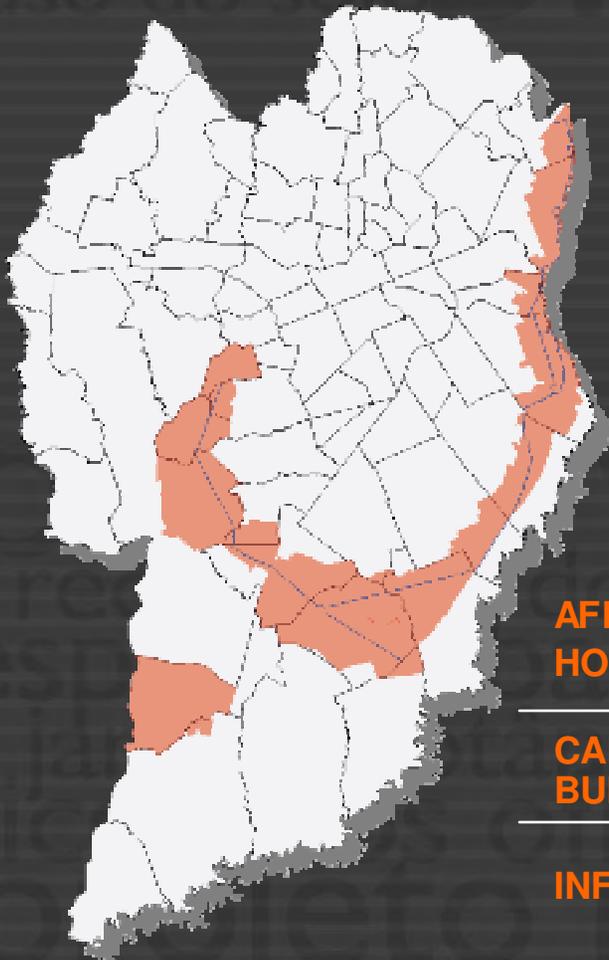
# Integrated Planning

Economical change

Job Line

Urban recovery

Job generation



1998



2000

**AFFORDABLE HOUSING**

1211 relocations  
254 legal processes

**CAPACITY BUILDING**

5878 citizens

**INFRASTRUCTURE**

02 social incubators  
12 entrepreneur sheds



# Integrated Planning

Social change

## Distribution of Municipal Services and Equipment

Food



Culture



Health care unit



Education



Children



Digital inclusion



Sports and Leisure



Social care



School



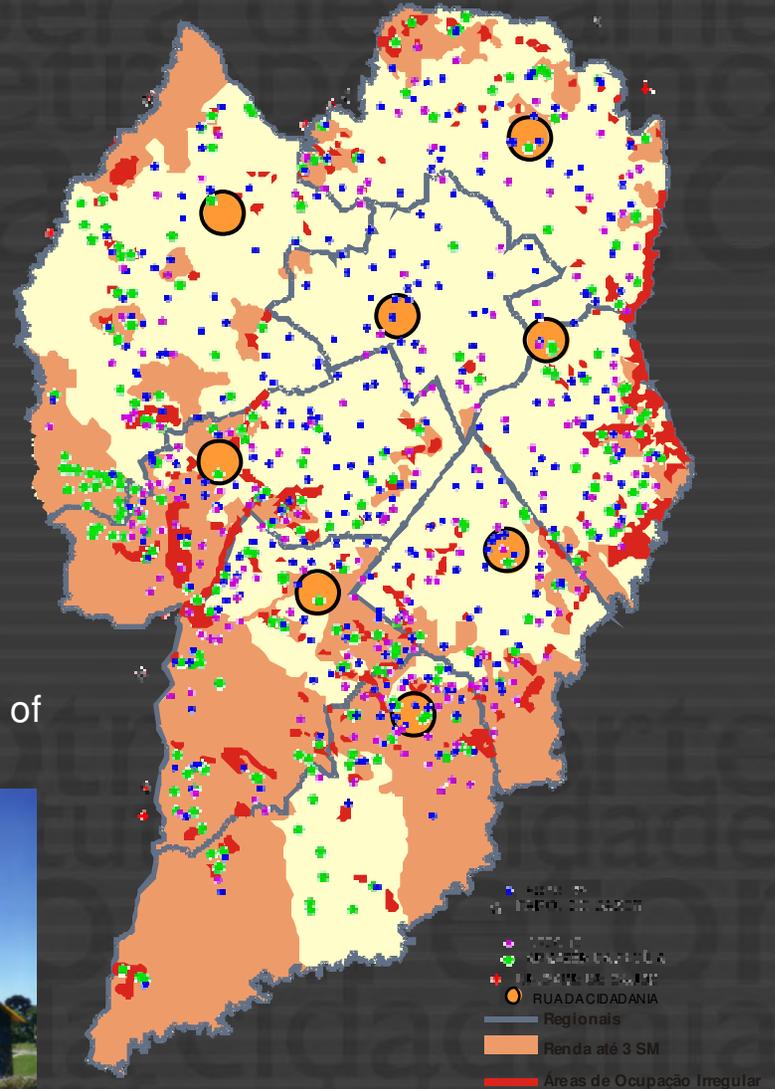
Lighthouse of Knowledge



Health



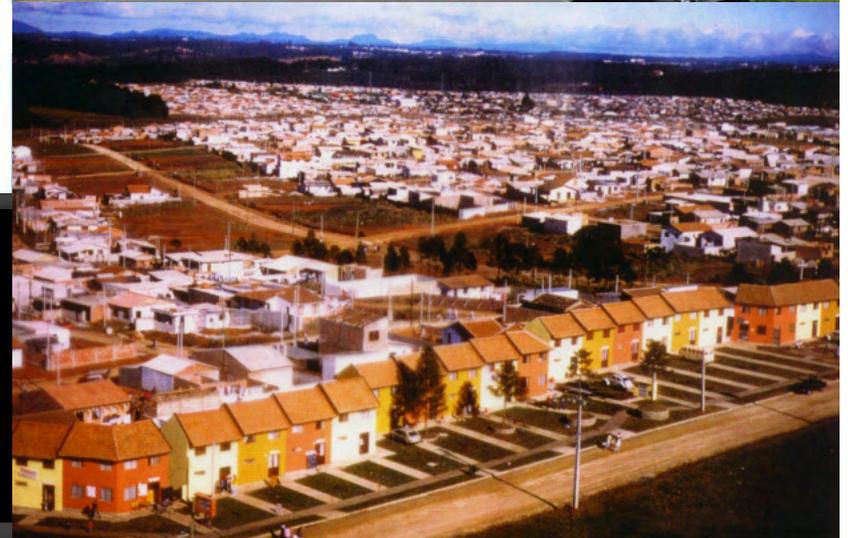
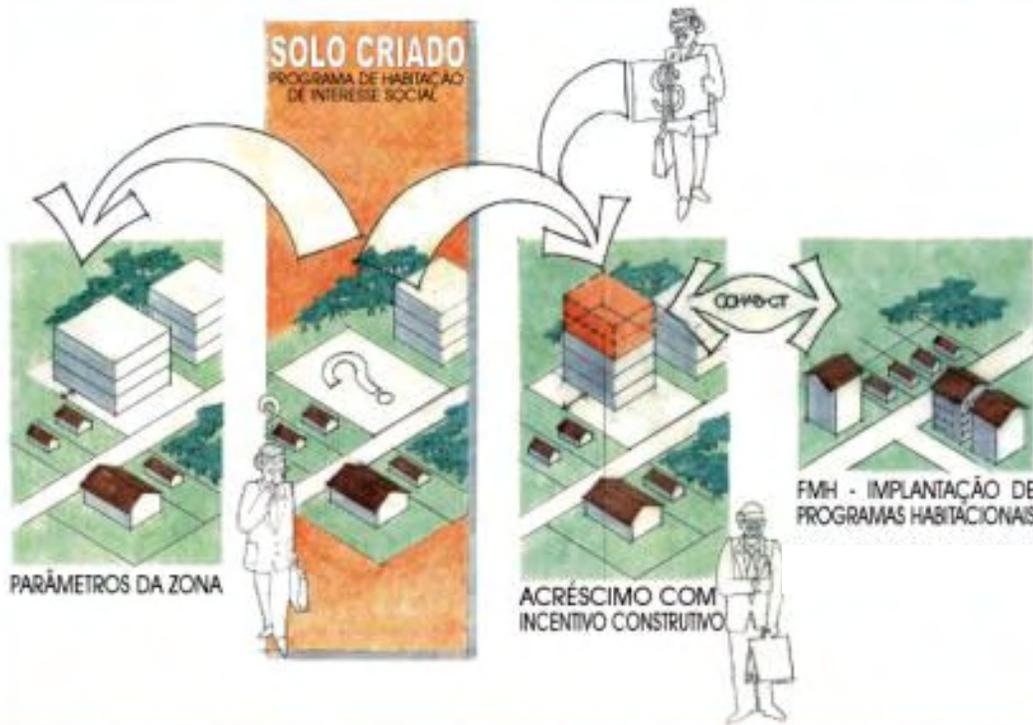
Municipal guards



# Sustainable Urban Planning Instruments

# Urban Planning Tools

## Building Incentives for Social Housing — 1991



From 1991 to 2002

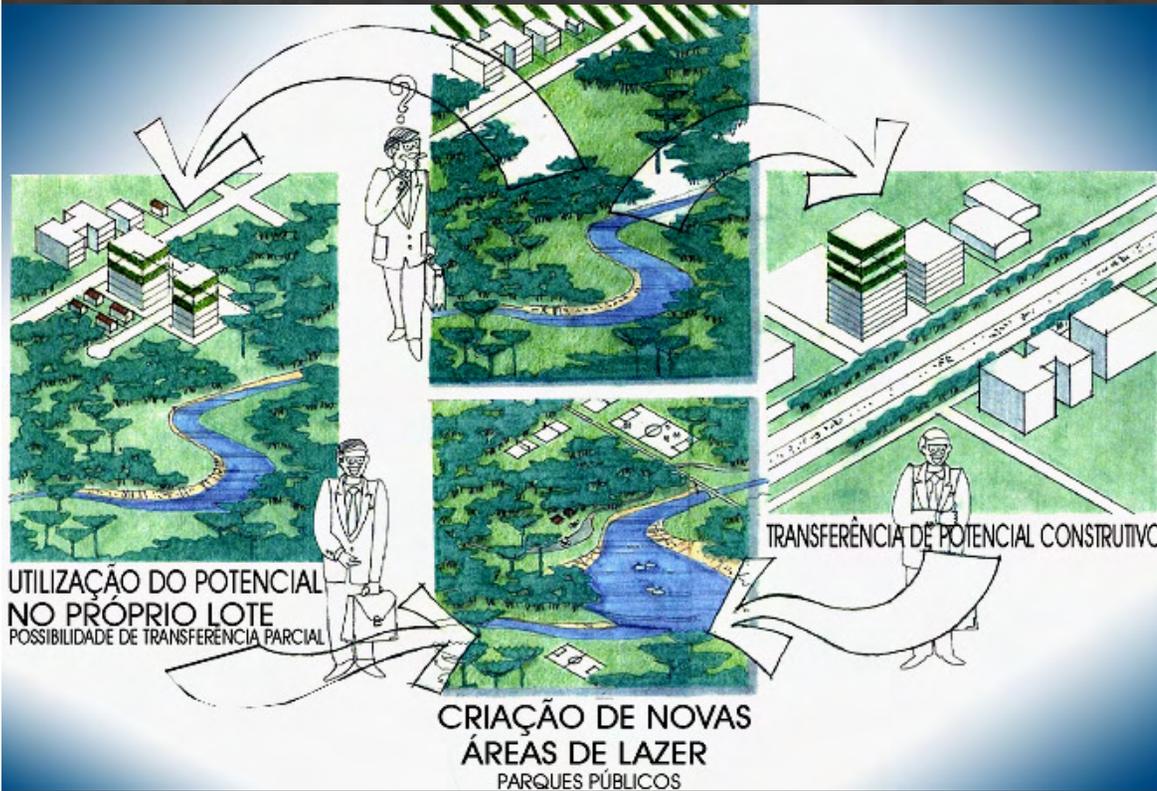
R\$ 21.320.709,22 — US\$ 9.500.000,00.

Housing units: 29.104

Total granted area: 252.296,04 m<sup>2</sup>

# Urban Planning Tools

## Transfer of Building Rights for Preserving Green Areas



# Recycling and Environmental Education



*Garbage that is not Garbage*



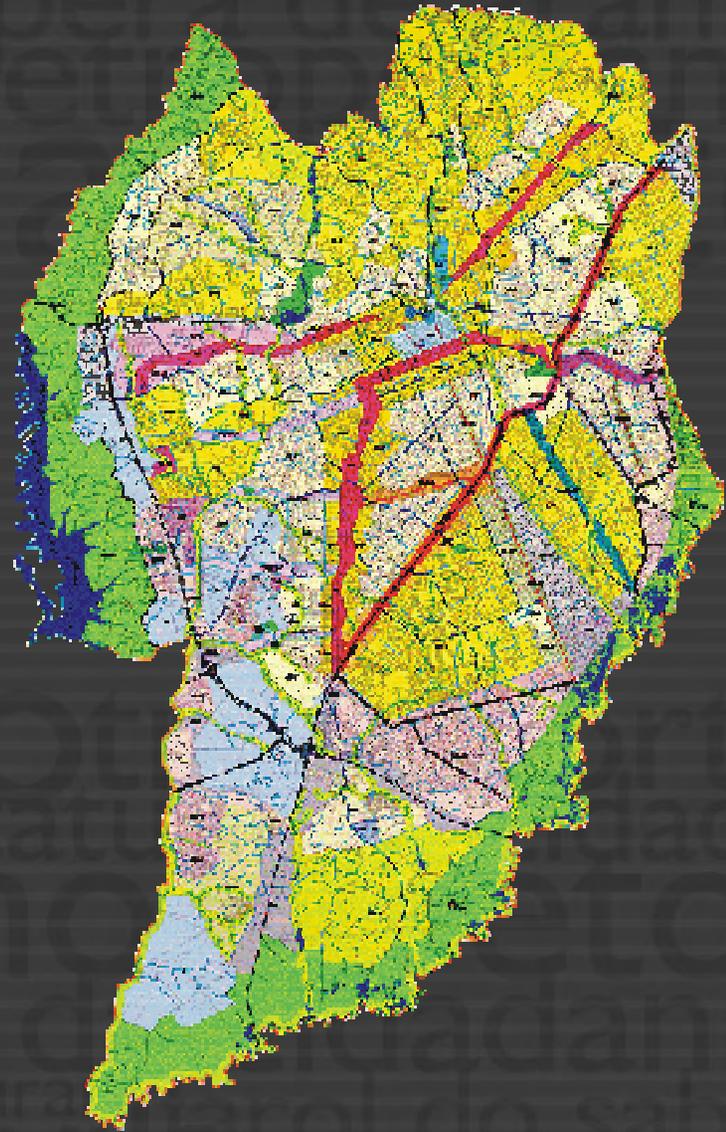
*Green exchange*



*Open University for the Environment*

# Actions for natural resource preservation

Permeability rate 25%



Law nº 10.785/ 2003 — Program of Water Conservation and Rational Use in Buildings

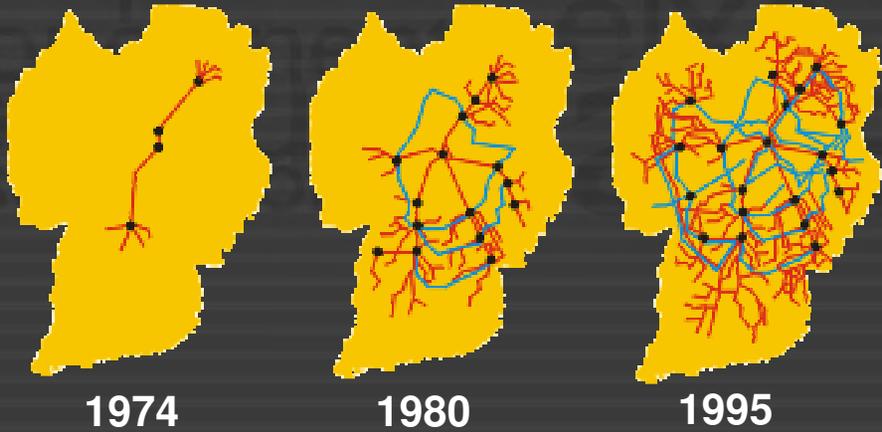
- . **User awareness**

Use of alternative water sources in buildings with more than 3,000 m<sup>2</sup>

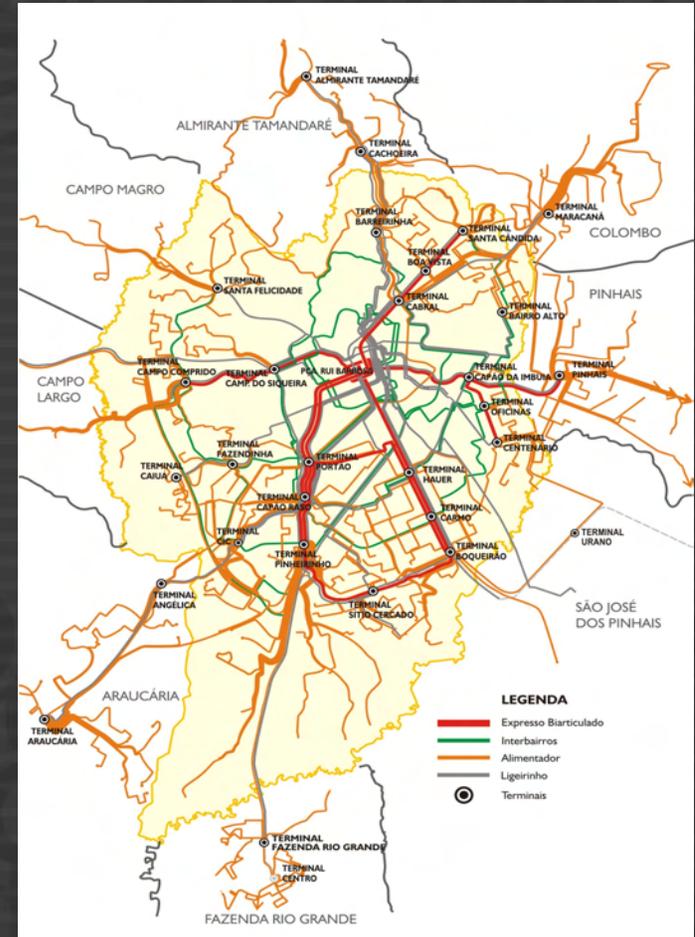
- . **Water saving devices**

# Public Transportation

## Evolution of the Integrated Network



Bus system integrated to land use and street network



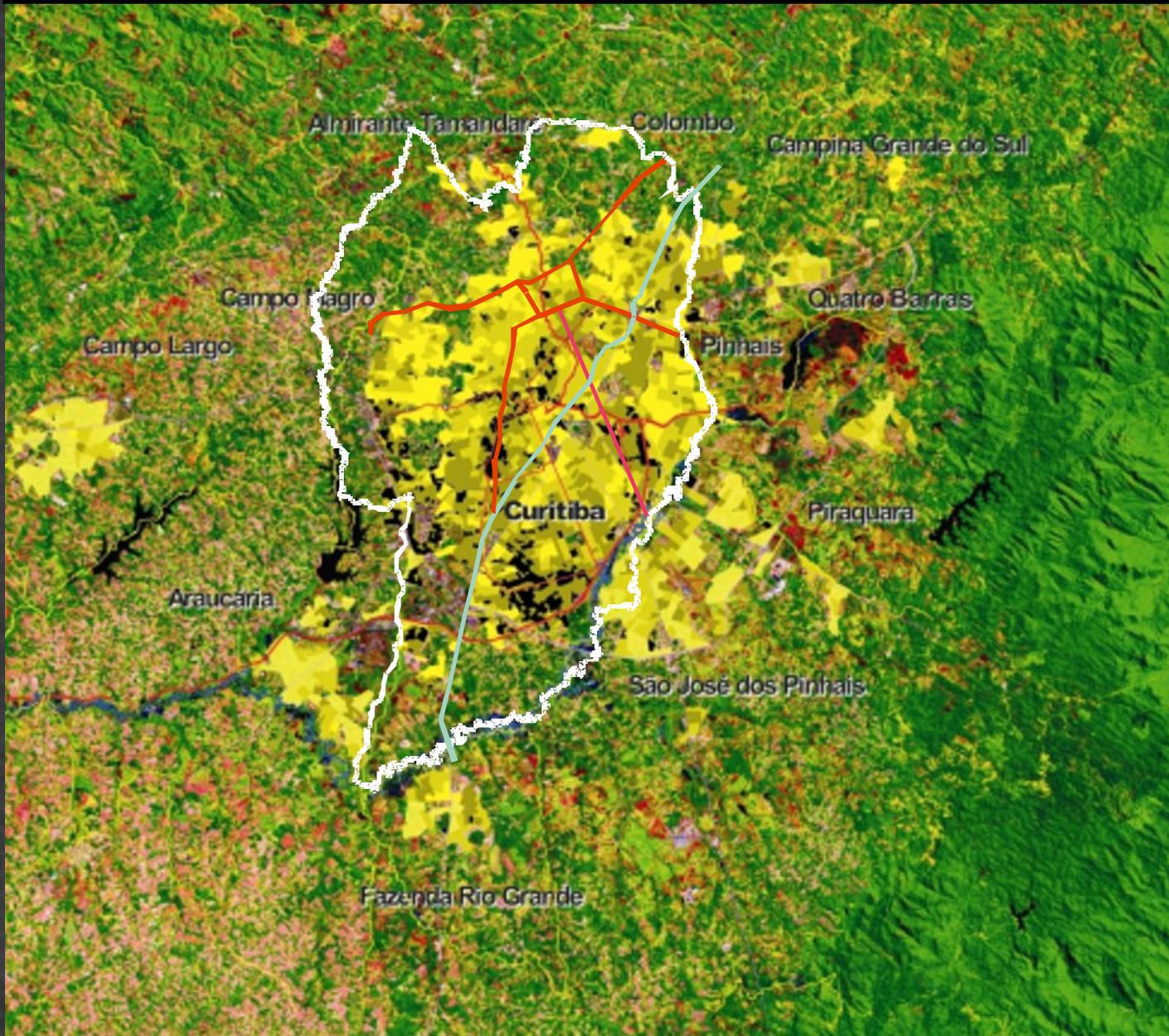
13 municipalities  
2,000,000 passengers / day  
28 terminals — 351 tube stations — 385 lines  
Network Accessibility — 500m  
Single Fare  
Exclusive bus lanes: 70 Km

# Public Transportation





# METROPOLITAN CURITIBA



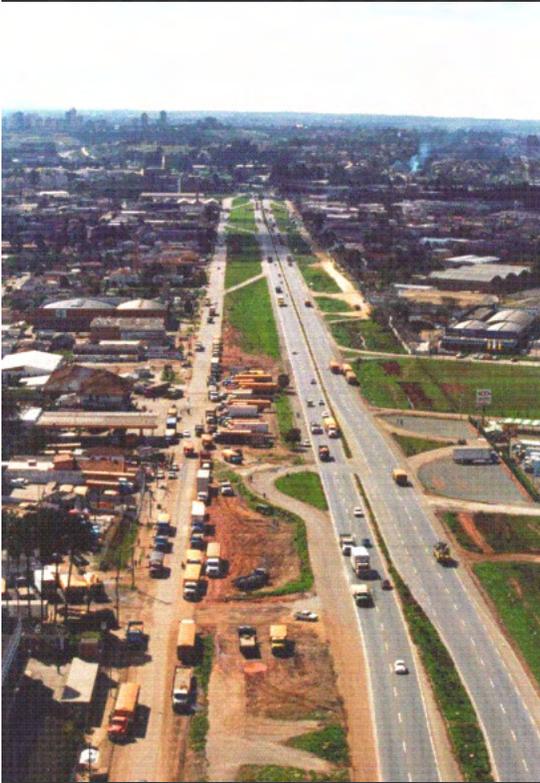
# METROPOLITAN CURITIBA

Curitiba overflows municipal boundaries, becoming a metropolis

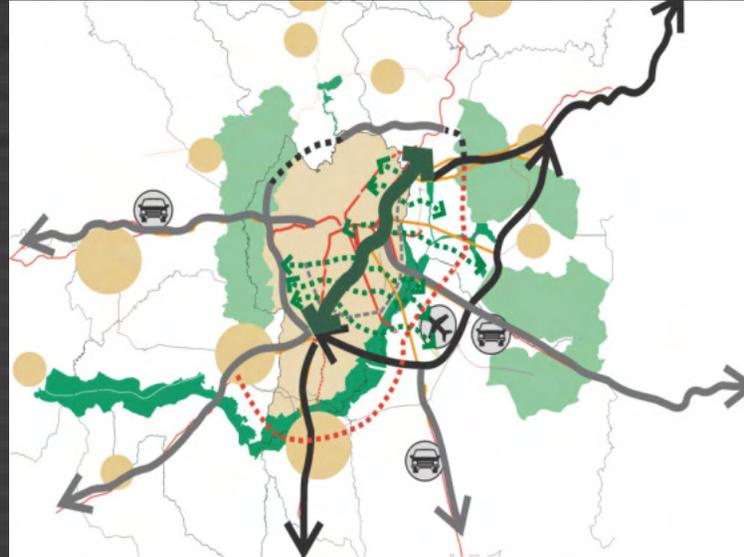
## METROPOLITAN STRATEGY

1. To build an urban environment with quality of life.
2. To make Curitiba's plan compatible with those of the Metropolitan Area municipalities.
3. To indentify possible joint actions.

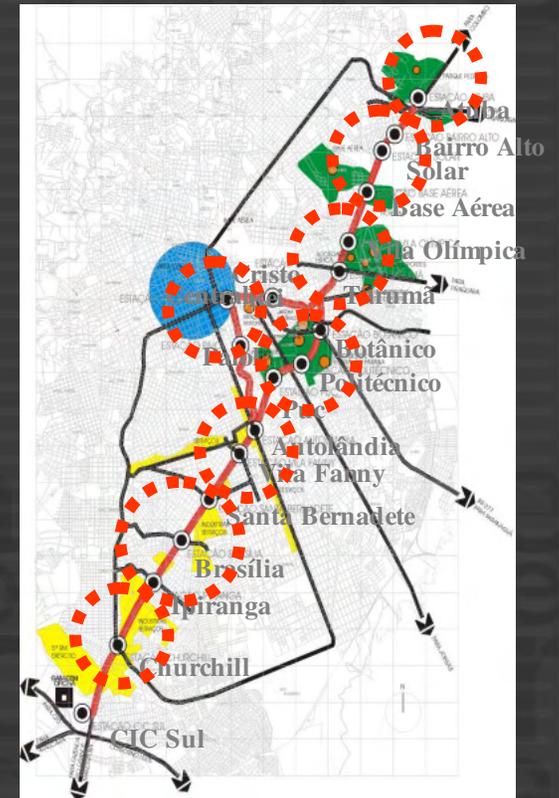
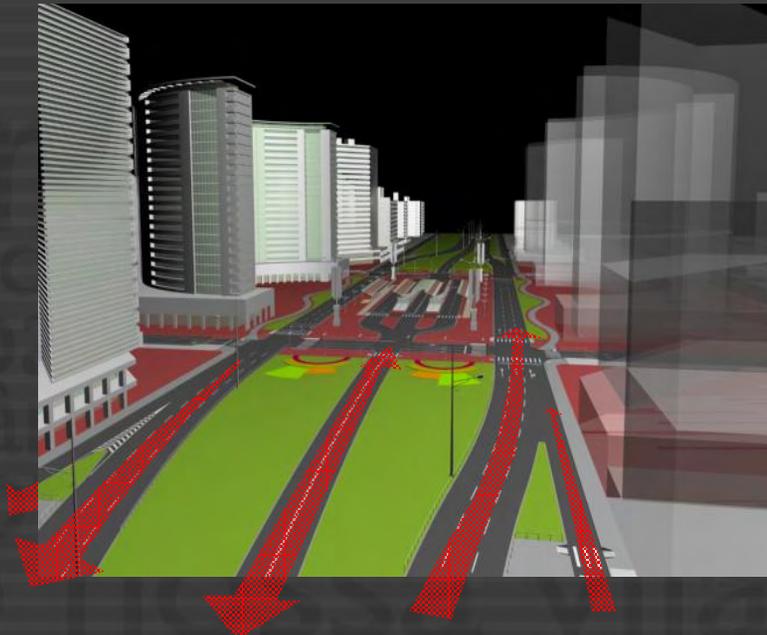
# Urban Mobility



Length: 20Km  
Range: 23 districts



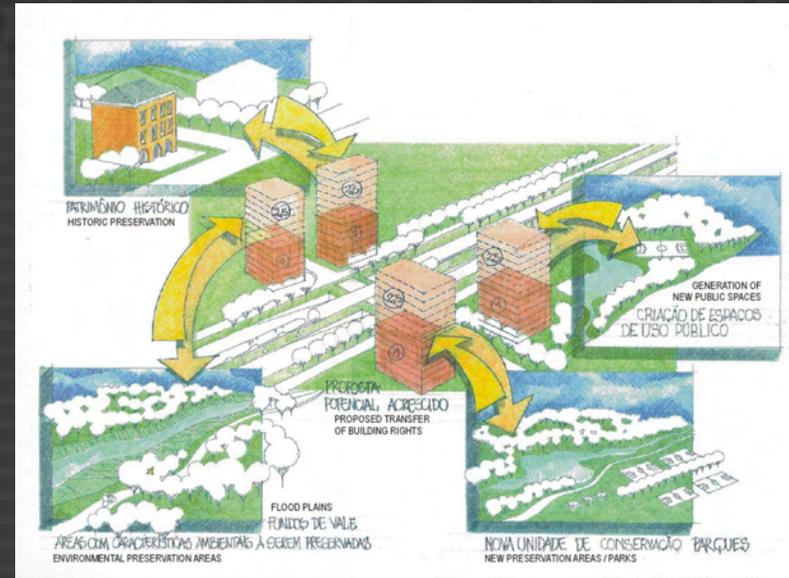
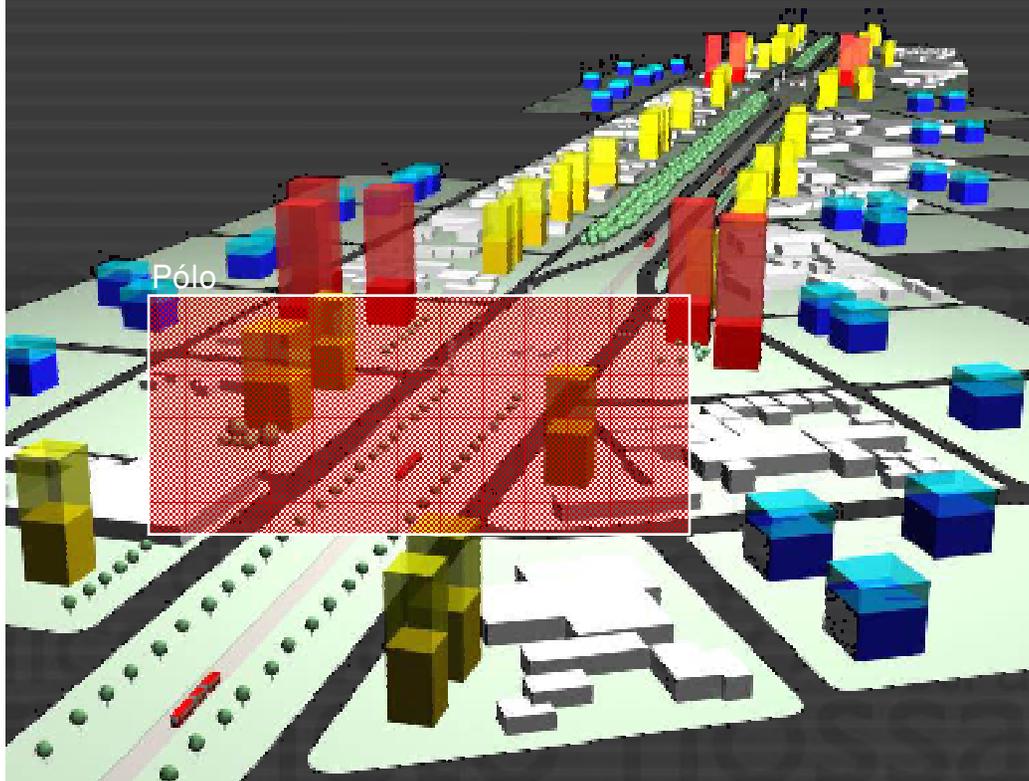
03 lines  
03 terminals  
12 stations



# Green Line

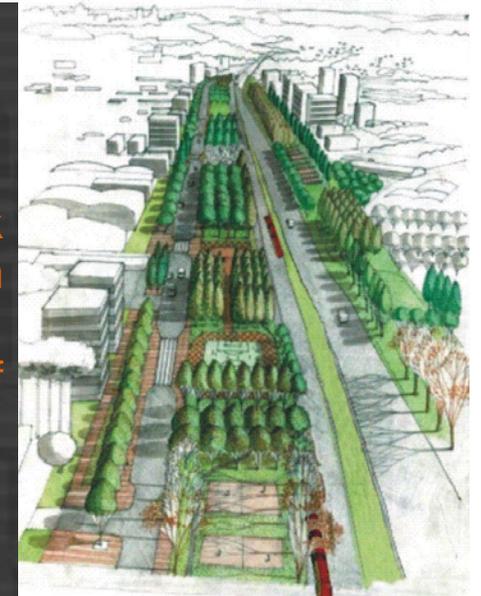
Land Use and the environment

Building incentives



Linear Park  
20,8 Km

18 Km of  
bicycle paths



# Green Line

## Transportation — Stations



*Less polluting fuel*

# Green Line



São Paulo ↑

Av. Paraná

DOWNTOWN

Parque Barigui

Nova Curitiba

Ponta Grossa ↓

Green Line

SOUTH STRUCTURAL  
AXIS

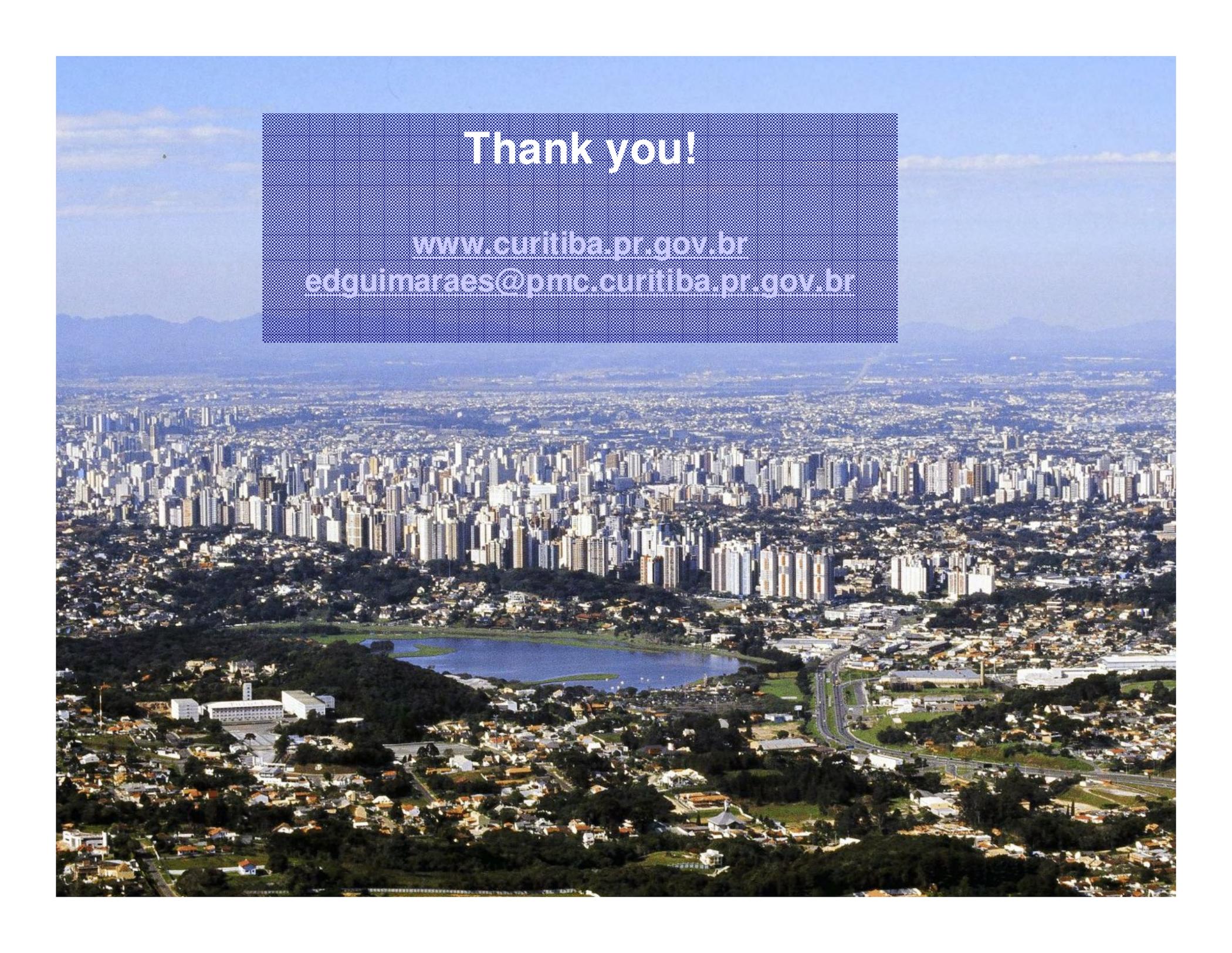
INDUSTRIAL  
DISTRICT

Represa Do Passaúna

Mal. Floriano

Parque Iguaçu

Porto Alegre →



Thank you!

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