

# Socio-environmental challenges in the Metropolis

## The example of La Paz (Bolivia)

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*São Paulo, 18-08-2011*

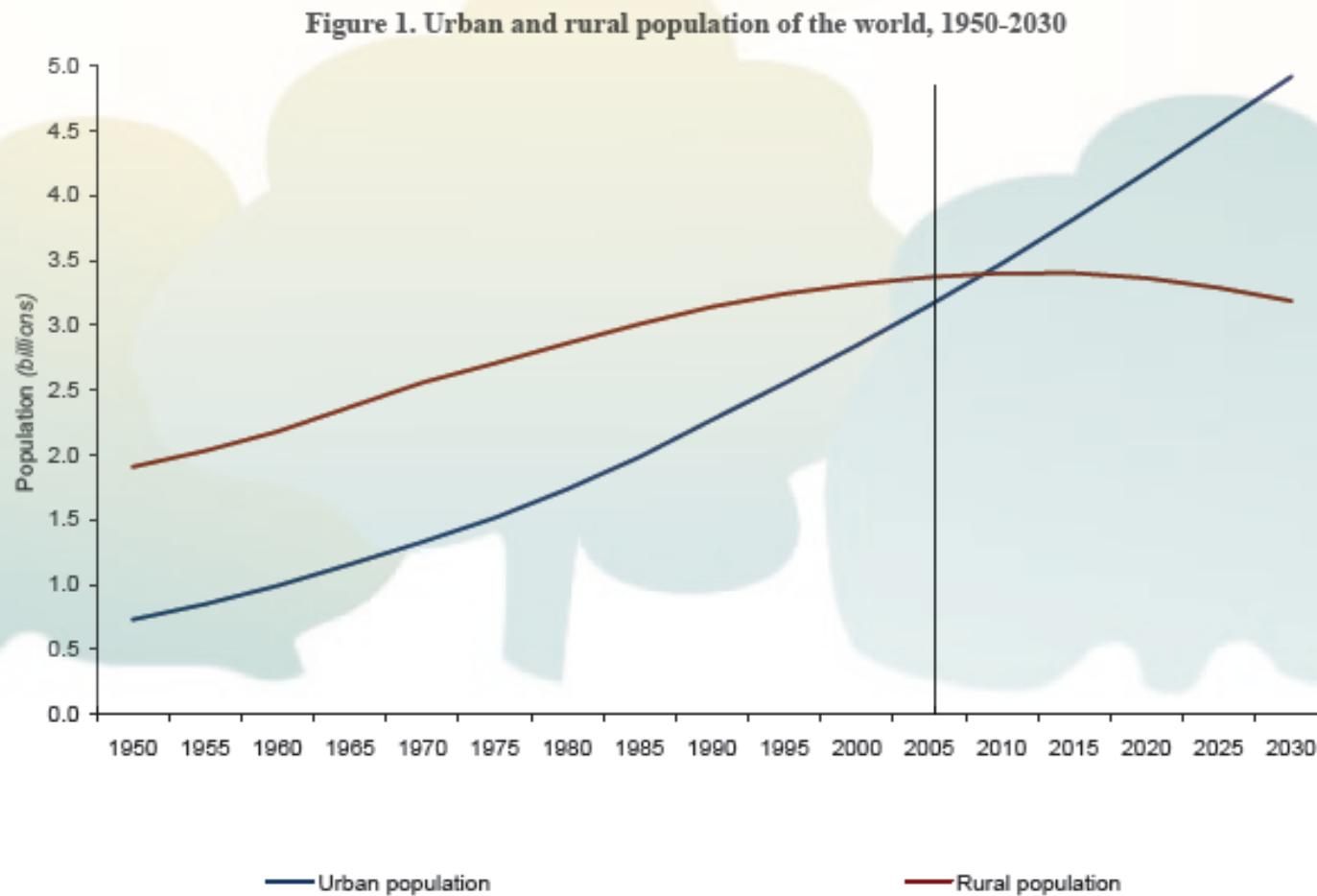
# Socio-environmental challenges in the Metropolis

- Physical vs social factors
- The challenge of urbanization
- Changing land uses (esp. in peri-urban regions)
- “urbanization of poverty”
- The importance of urban planning

# Some basic demographic data:

- Total World Population: will increase from current 7 billion to 8.2 billion by 2030
- World Urban Population: is expected to increase from current 3.3 billion to about 5 billion by 2030 ( 60 %)

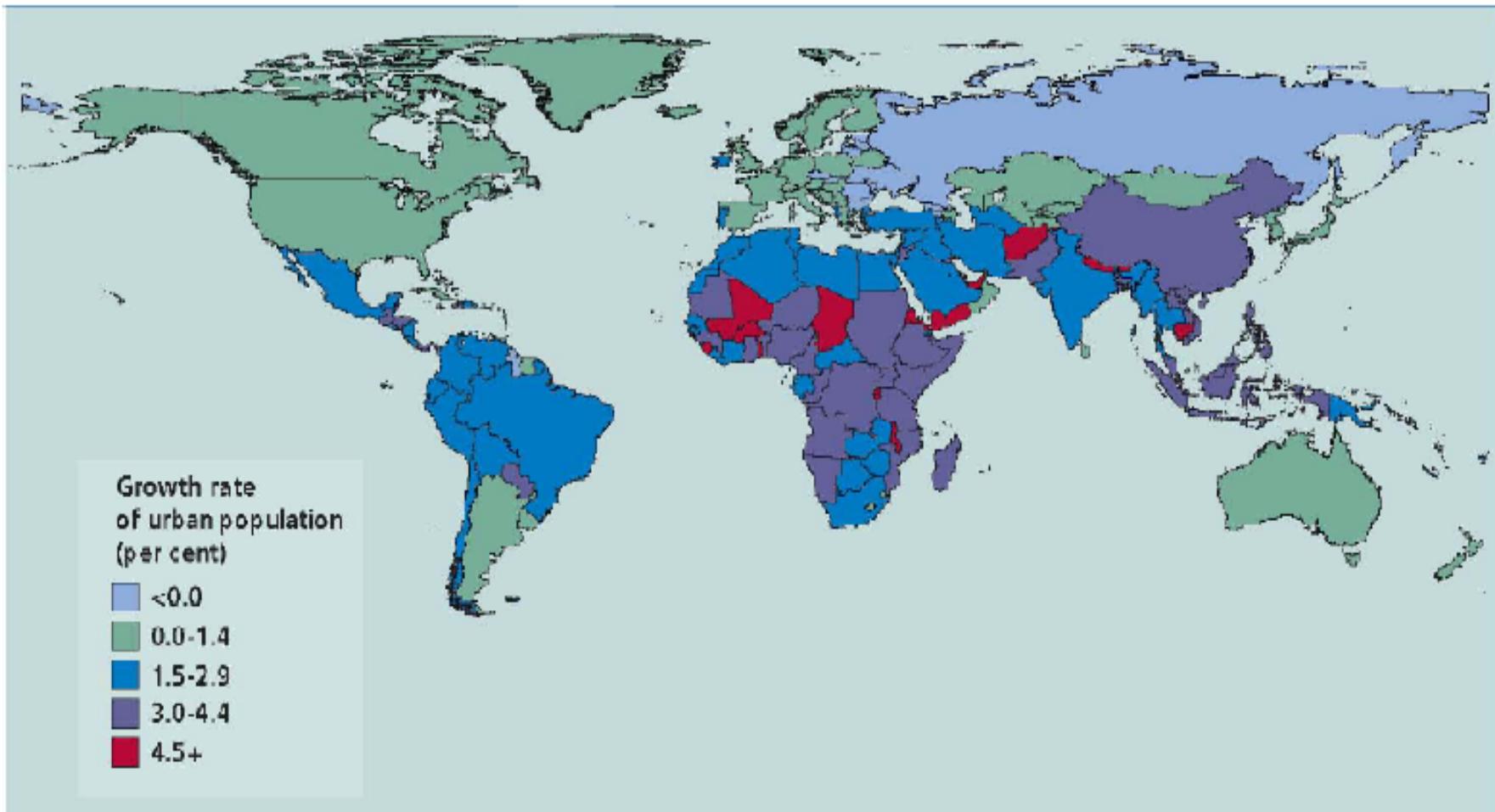
- As of 2008, half of the population is urban



Source: United Nations, Department of Economic and Social Affairs, Population Division (2006). World Urbanization Prospects: The 2005 Revision. Working Paper No. ESA/P/WP/200.

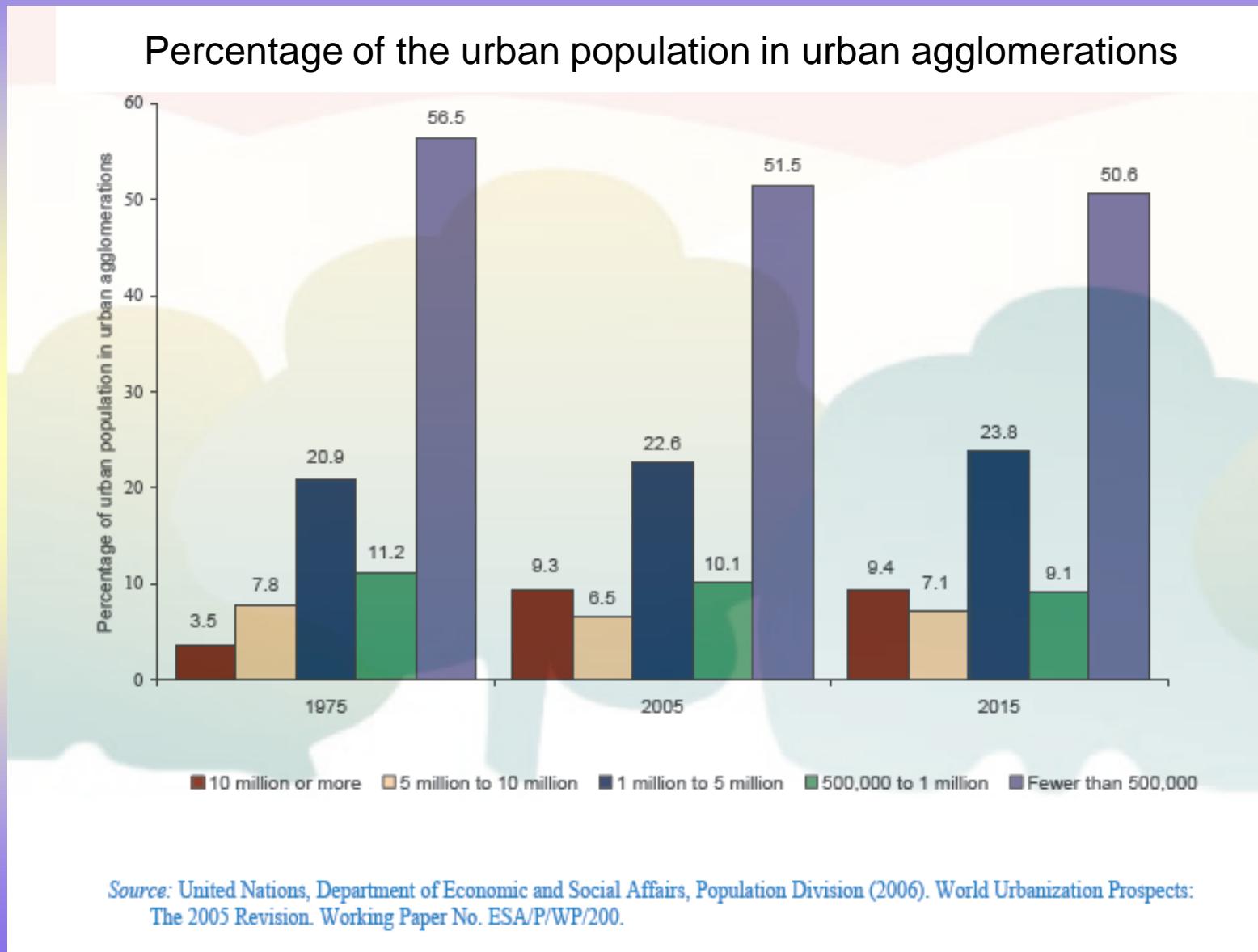
# Growth rates of urban population will be greater in developing countries

Figure 2. Average annual rate of change of the urban population, 2000-2005



Source: United Nations, Department of Economic and Social Affairs, Population Division (2006). World Urbanization Prospects: The 2005 Revision. Working Paper No. ESA/P/WP/200.

# Most of the urban population will continue residing in the smallest agglomerations



## Contrary to common belief...

**Natural increase** has a major role in the growth of cities

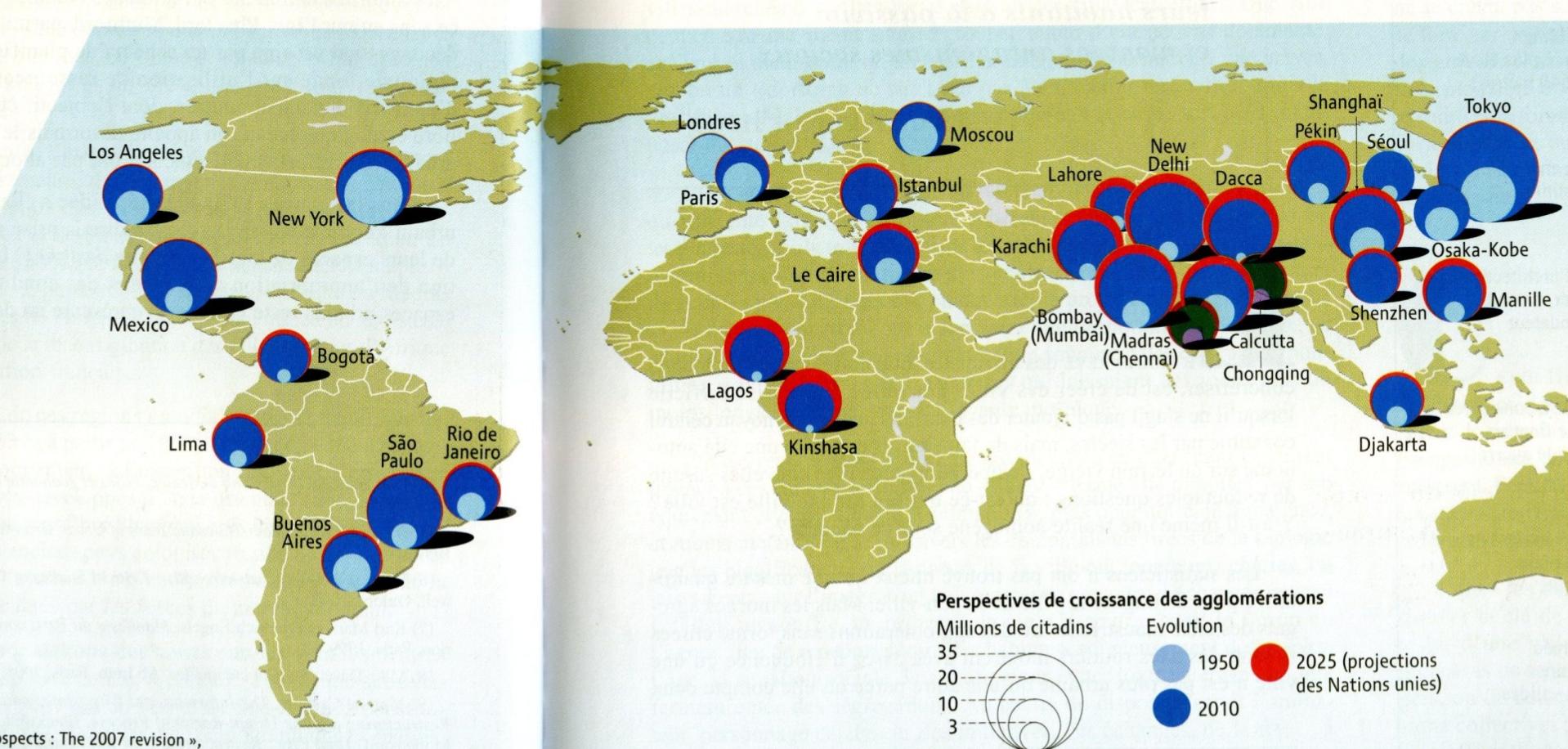
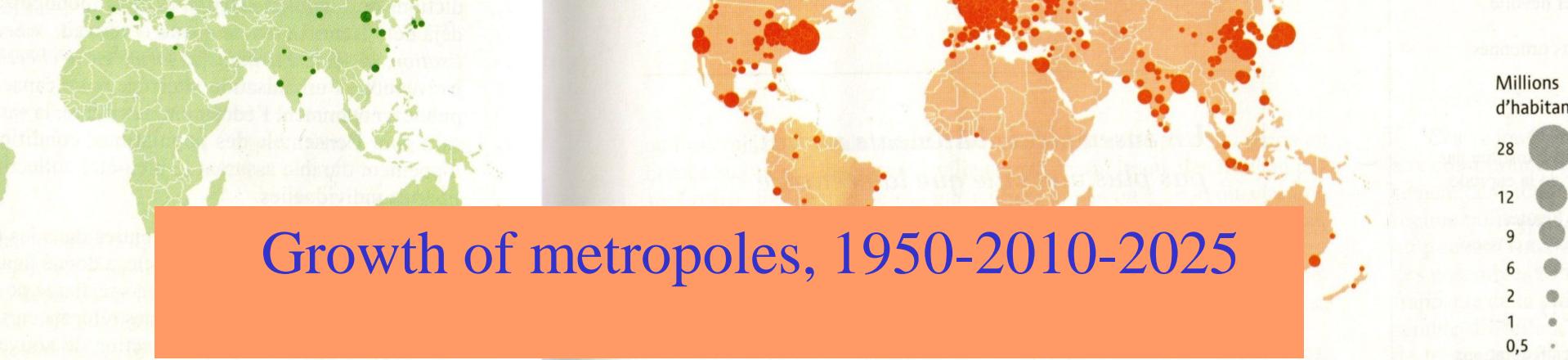
In fact:

- Most urban growth is actually due to **natural increase** (i.e. – more births than deaths)
- Natural increase: 60 %.
- Migration and classification of areas: 40%

# The poor are not a small marginal minority in cities

In developing countries, the poor are a **majority in city growth**

- Poverty is increasing faster in cities. In Sub-Saharan Africa, urbanization is synonymous with the growth of ‘slums’.
- One billion people already live in such ‘slums’
- These housing conditions determine much of human misery



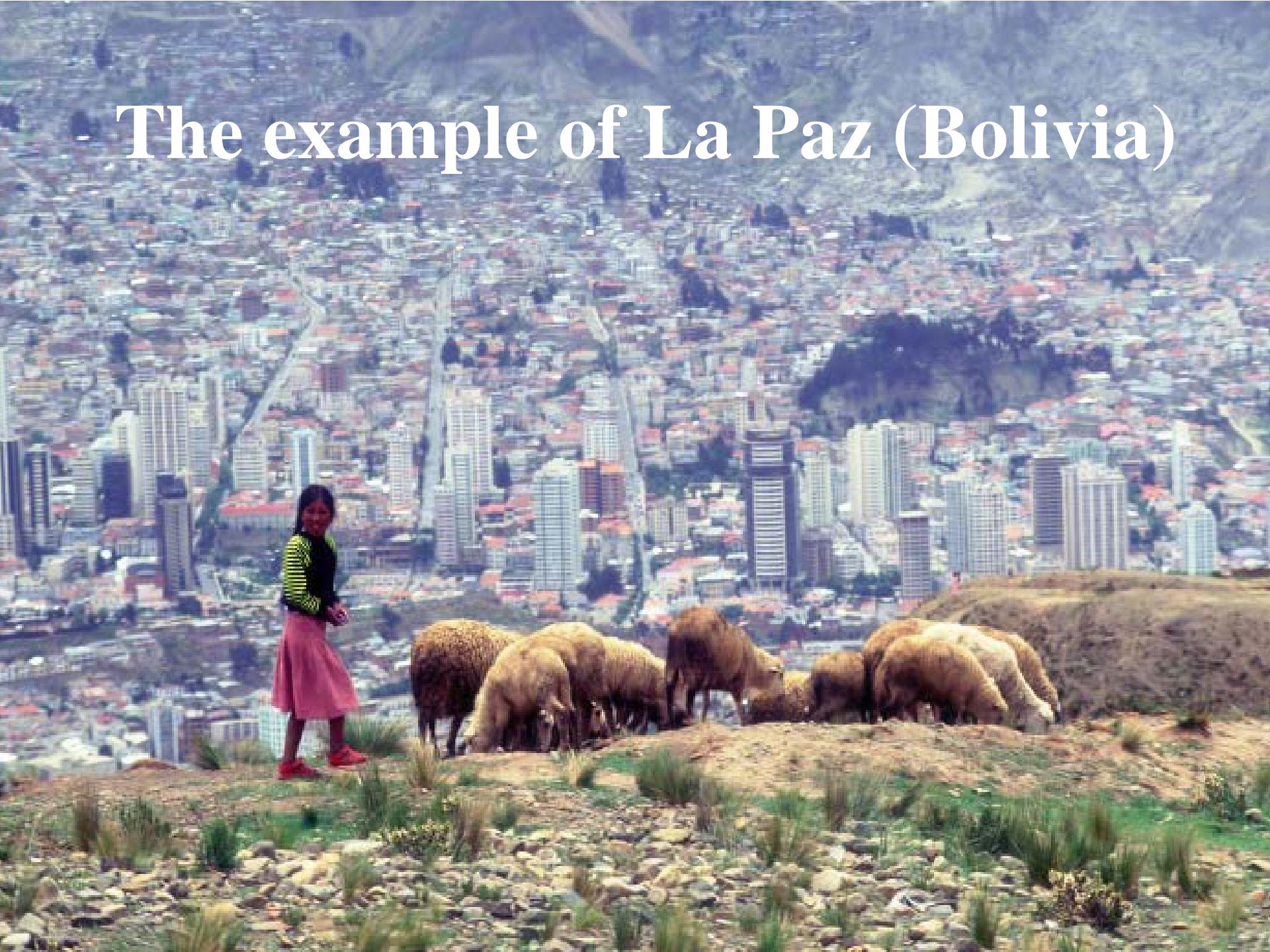
# The 5 Shelter deprivation indicators used by the UN

- Lack of durable housing
- Lack of sufficient living space
- Lack of access to save drinking water
- Lack of access to improved sanitation
- Lack of secure tenure

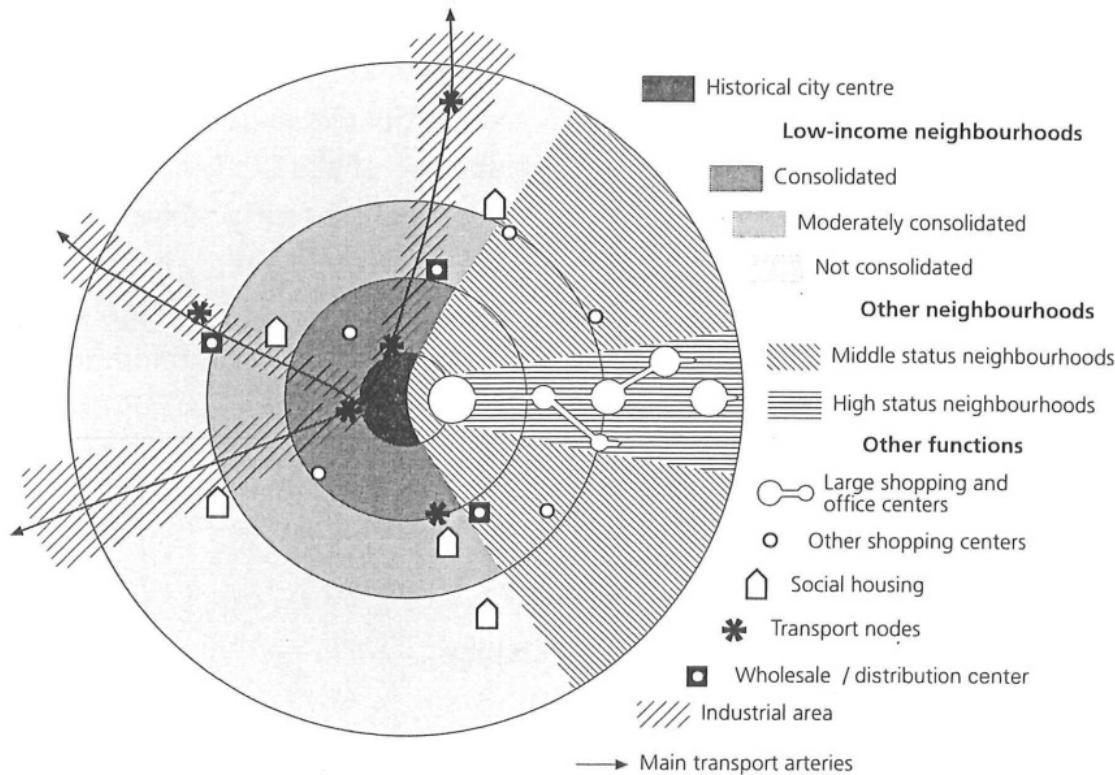
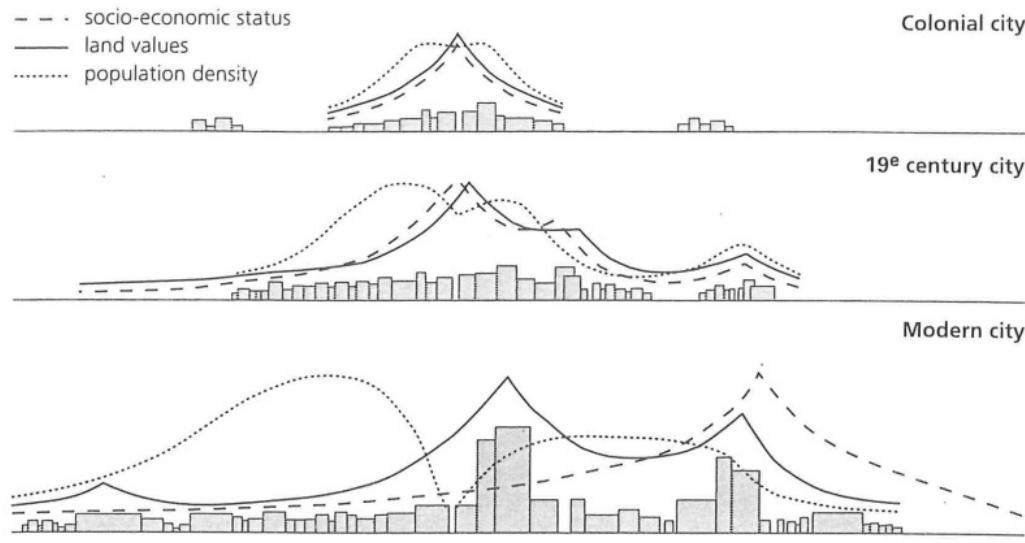
# MDG Targets & Indicators relevant to housing

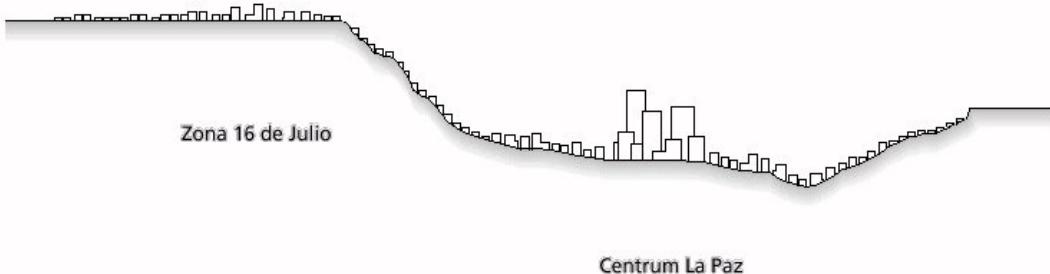
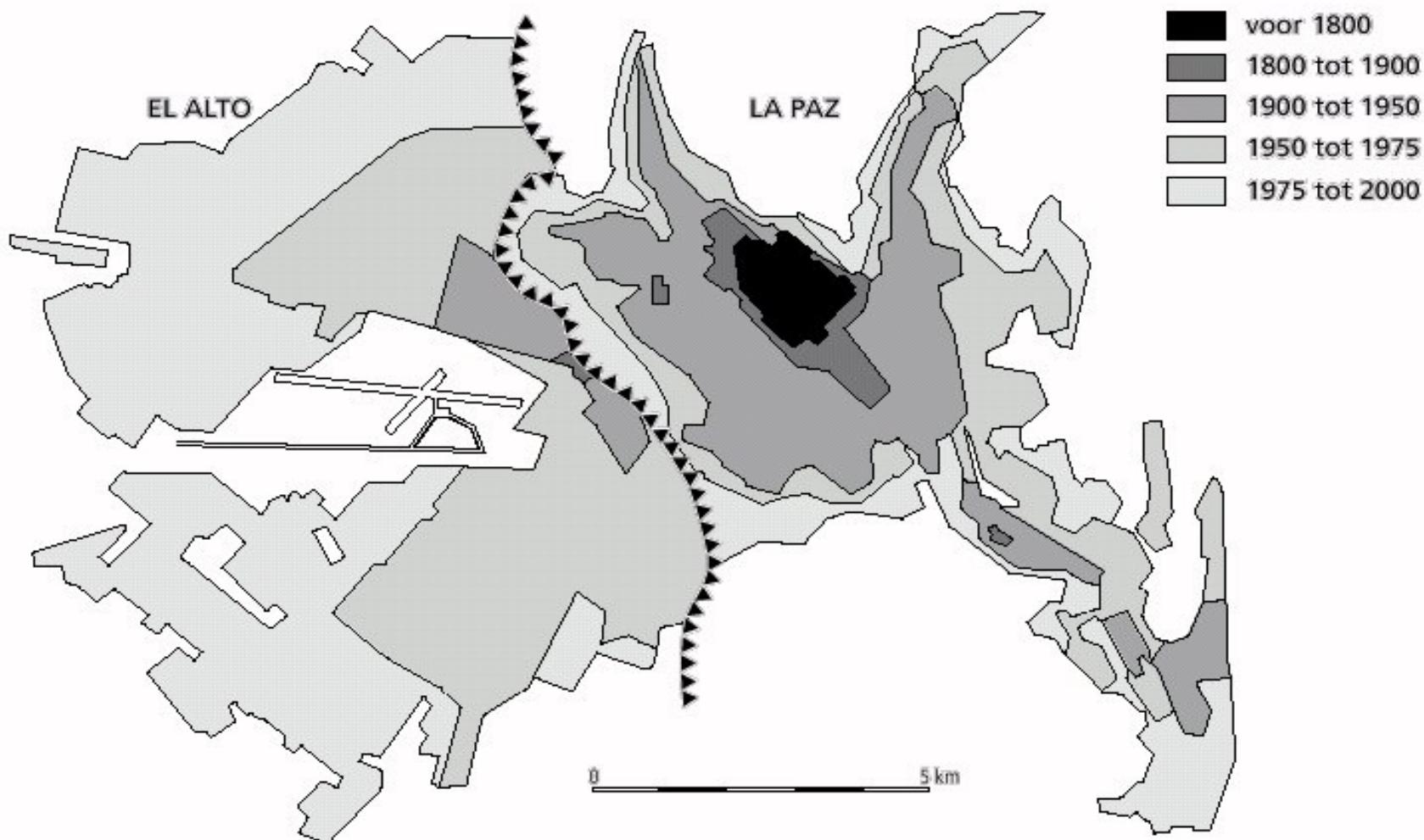
- **Target 10:** halve the proportion of people without sustainable access to safe drinking water and sanitation by 2015
- **Target 11:** Achieve a significant improvement in the lives of at least 100 million slum dwellers
- **Indicator 30:** Proportion of people with sustainable access to improved water resources
- **Indicator 31:** Proportion of people with access to improved sanitation
- **Indicator 32:** Proportion of people with access to secure tenure

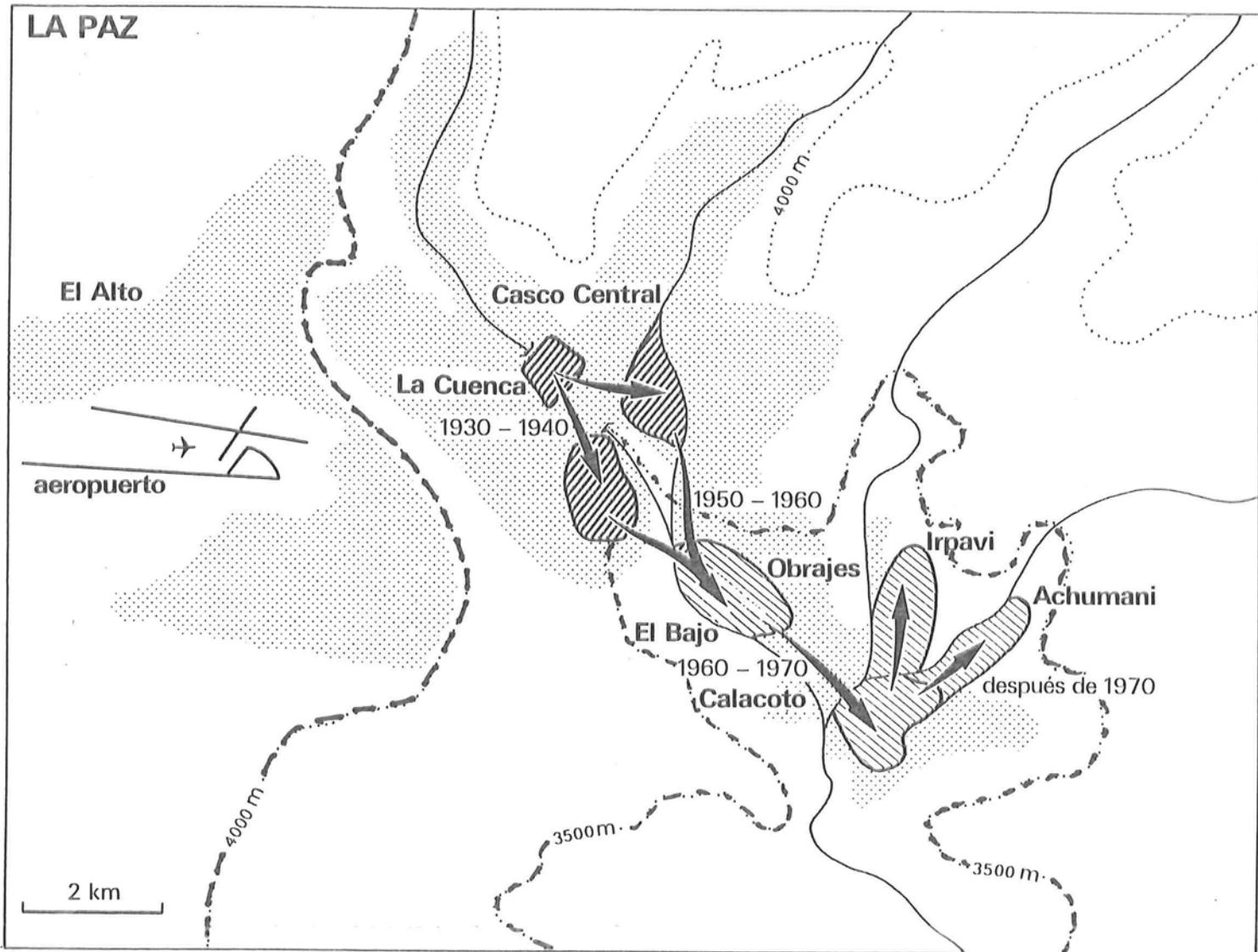
# The example of La Paz (Bolivia)











Upper class mobility

# Eje central (CBD)









PÓBLA DE  
VILLAVICIOSA Y  
CANTABRIA  
EN MATERIALES DE  
CONSTRUCCIÓN  
Fábrica Almenara

A photograph of a city street during the day. In the foreground, a large, brightly lit sign for "Ketal HIPERMERCADOS" is mounted on a building. The sign features the word "Ketal" in large red letters with blue outlines, and "HIPERMERCADOS" in white letters on a blue background. To the left of the sign, there's a smaller yellow sign for "NID". Further down the street, there are several other signs, including one for "BCP" and another for "Chivas". The street is lined with modern buildings of various colors (orange, blue, grey) and some palm trees. A few cars are parked on the side of the road, and a person is seen walking away from the camera. The sky is blue with some white clouds.

Ketal  
HIPERMERCADOS



CHIVAS

Av. Ballón

NID

BCP

La Vida es

BCP



Casco central











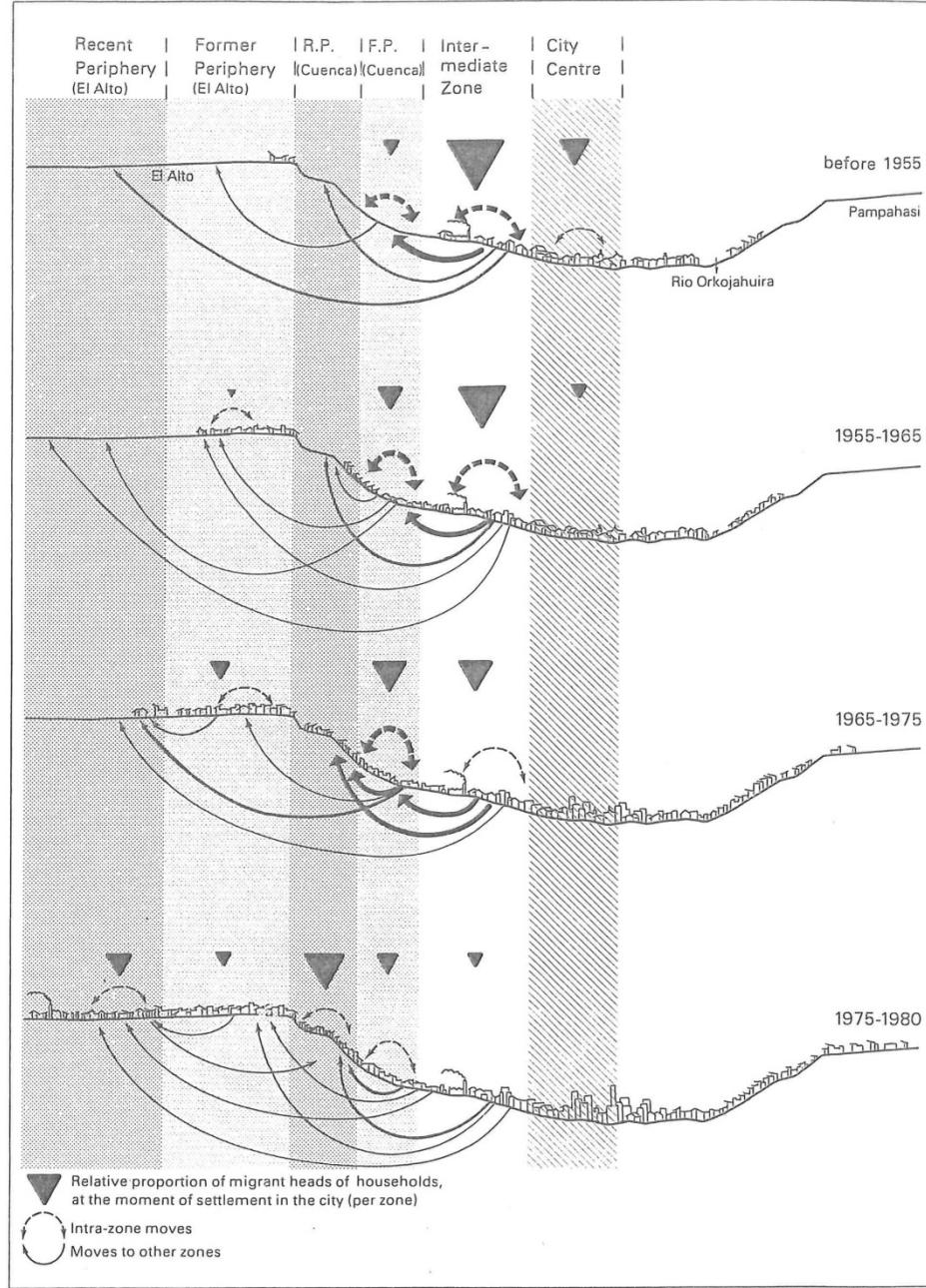


# El Alto







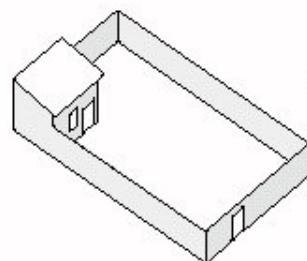


Migrant householders: main patterns of settlement and relocation in La Paz.

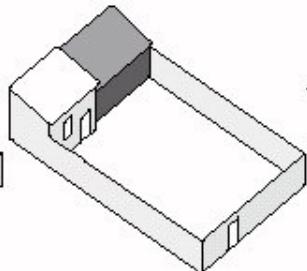




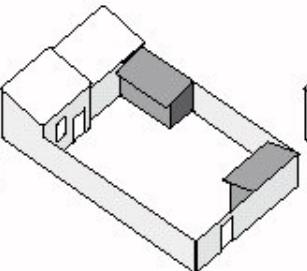
EN VENTA ESTE LOTE DE TERRENO REF. 26 DE MAYO 757  
PROYECTO



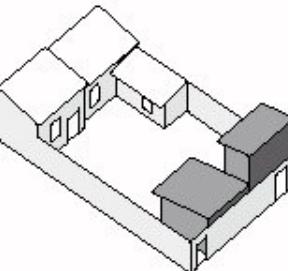
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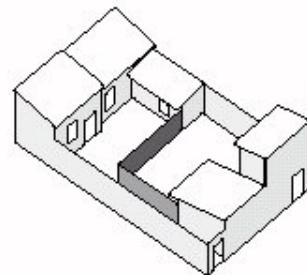
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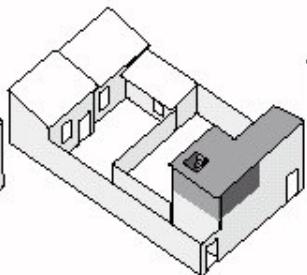
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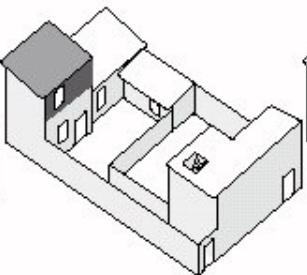
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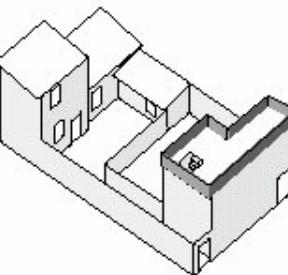
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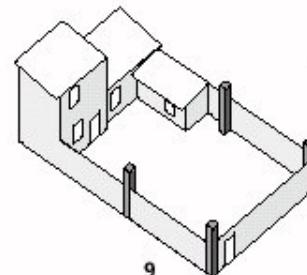
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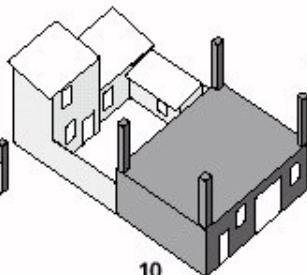
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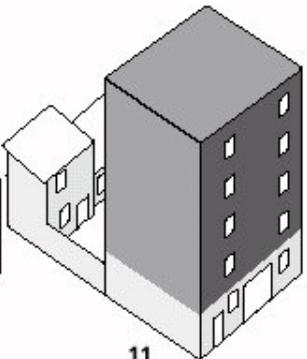
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11

















intino Lima

CARNE  
BOERA  
MERCADO  
Fido Ta









ENY  
TÉCNICA

IMPORTADORA  
WESI

Gladiator FOREST GARDEN RIDGID

HERRAMIENTAS INDUSTRIALES

ñéq

TECNOLOGÍA QUE DURA MÁS

LA ÚNICA  
CON  
DOBLE GARANTÍA

X85

BH



fia  
arts en Gral

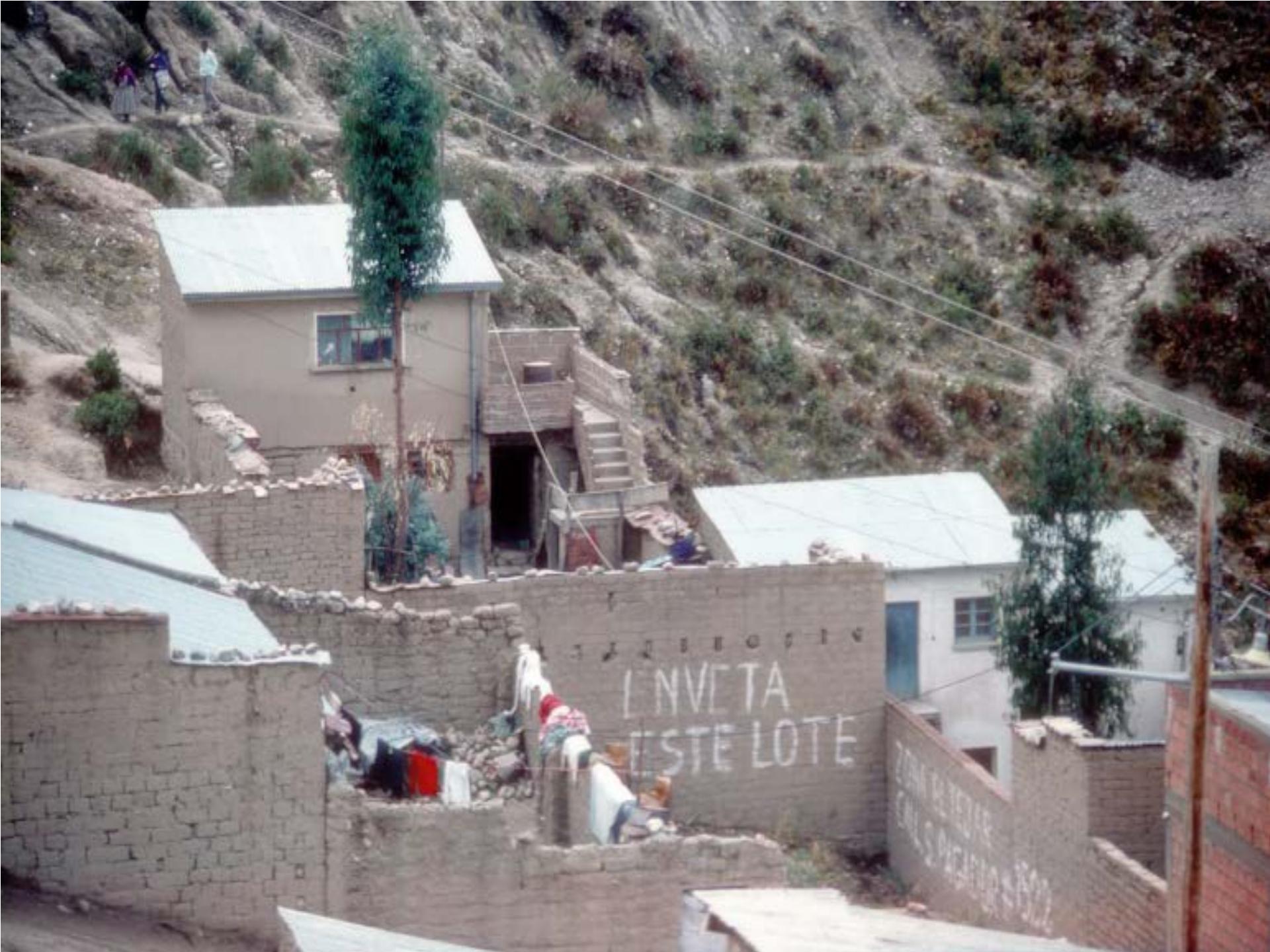
CENTRO ESTETICO INTENSO  
"Marbella's"  
Especialistas en Belleza

ELLEZEA  
CORTES  
RAYITOS  
TINTES  
BASES  
LAVADOS  
MASAJE  
MONJOS  
GERIAS

FIESTA DE FIESTAS

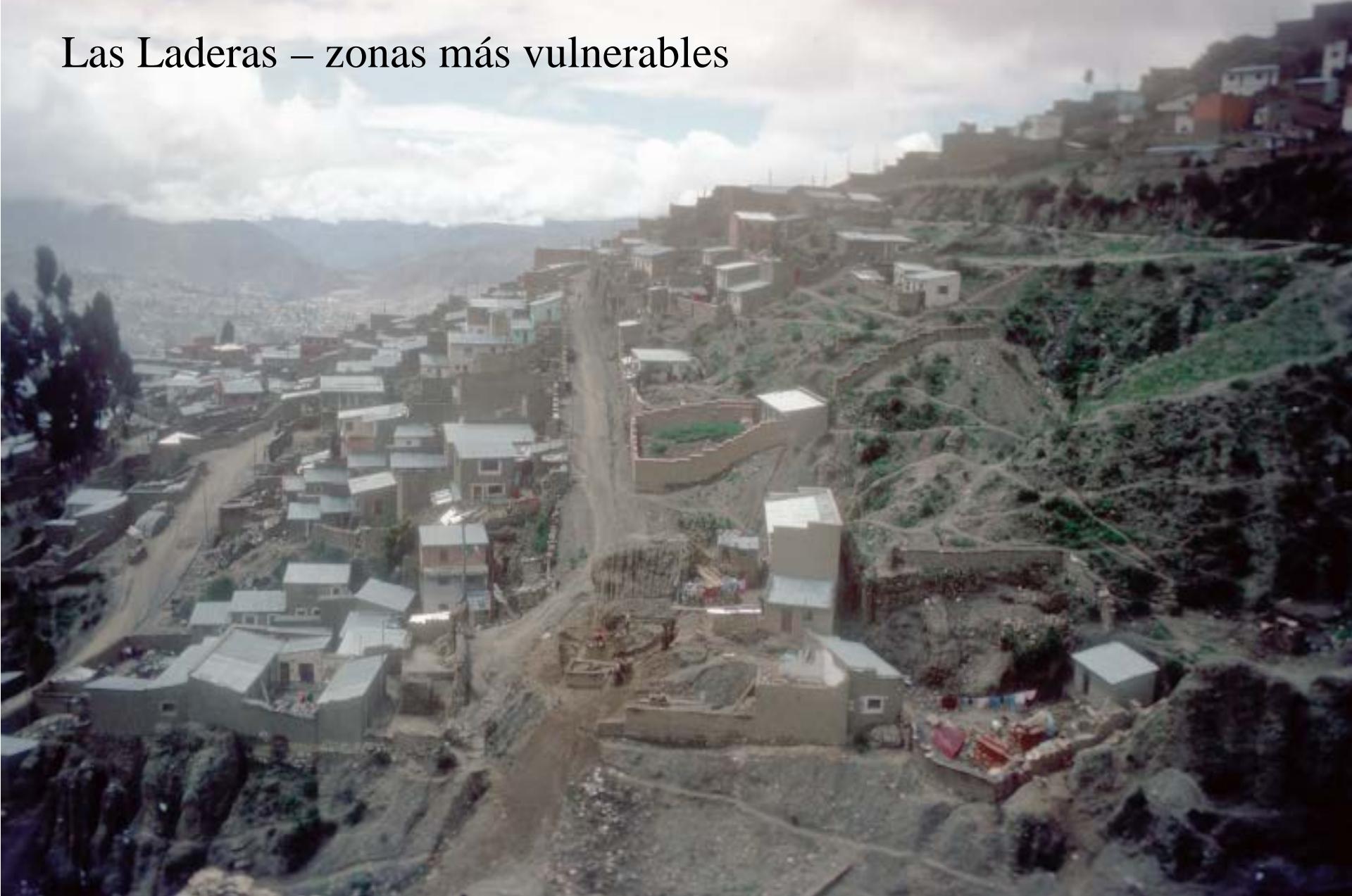
VACENA  
ARTESANIA

ALICANTE  
ORION



INVETA  
ESTE LOTE

## Las Laderas – zonas más vulnerables



















Laderas; zona Callapa

- 26 de Febrero 2011







KUDINI  
NARHONIA  
WALLACE

KD1



AVENIDA  
PAZ TERRAMOLINOS

























Y vale una vida  
en te crees que todo

ELINCA



# Socio-environmental challenges in La Paz; key factors:

- Population pressure
- Land tenure and self help building
- Lack of services and urban infrastructure
- Inadequate municipal planning