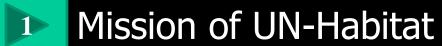


Claudio Acioly jr.

Head Capacity Building
claudio.acioly@un.org

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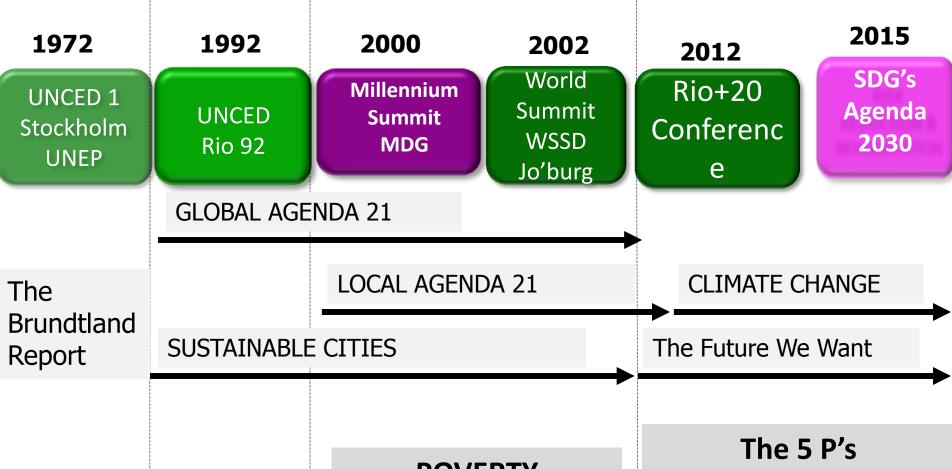


Understanding Sustainable Development:

Let's us remember where we came from 20 years ago. The evolution of our thinking & action



The Sustainable Development Agenda



THINK GLOBAL ACT LOCAL

29/06/2018

POVERTY ERRADICATION

Change Unsustainable patterns of consumption & production

Claudio Acioly Jr, Head CDU, UN-HABITAT

The 5 P's
People Planet Prosperity
Peace Partnership
End extreme poverty, fight
inequality and injustice, and

protect our planet



Rio, 2012: 'The Future We Want' Rio+20

What is sustainable development?

"Sustainable development meets the needs of the present generation without compromising the ability of future generations to meet their own needs"

Rio, 1992: 'Our Common Future'

AGENDA 21,

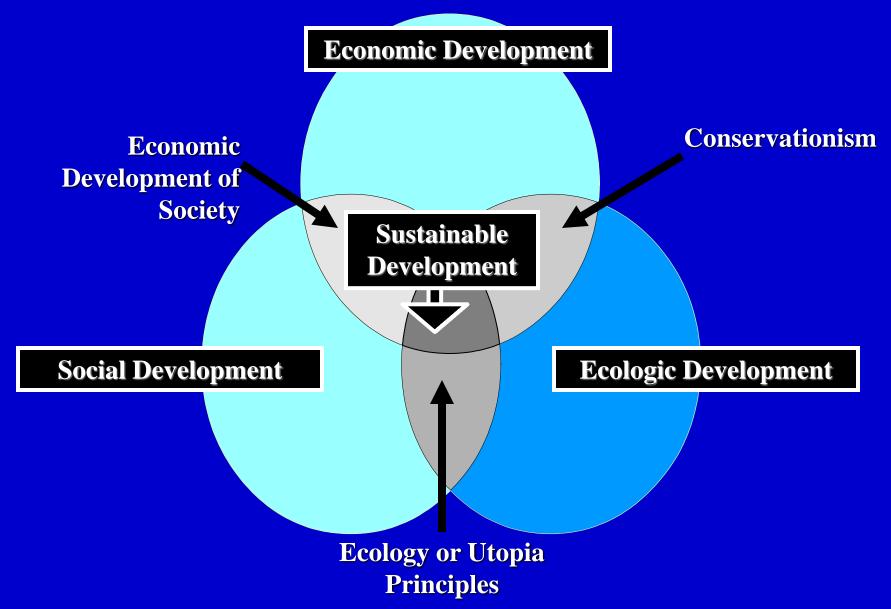
Chapter 7: Human Settlements

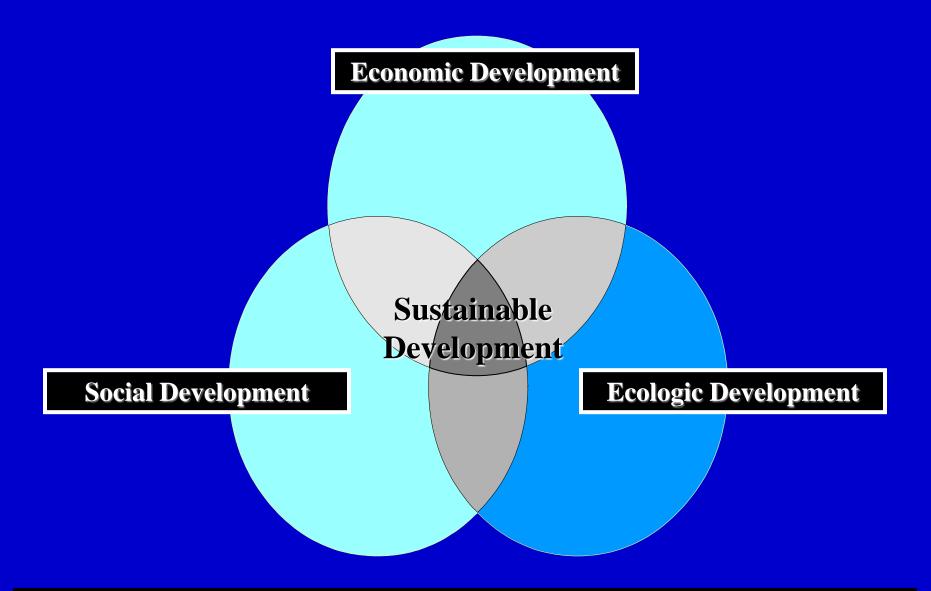
Chapter 28: Local Agenda 21

Sustainable Cities

ACT LOCALLY, THINK GLOBALLY.

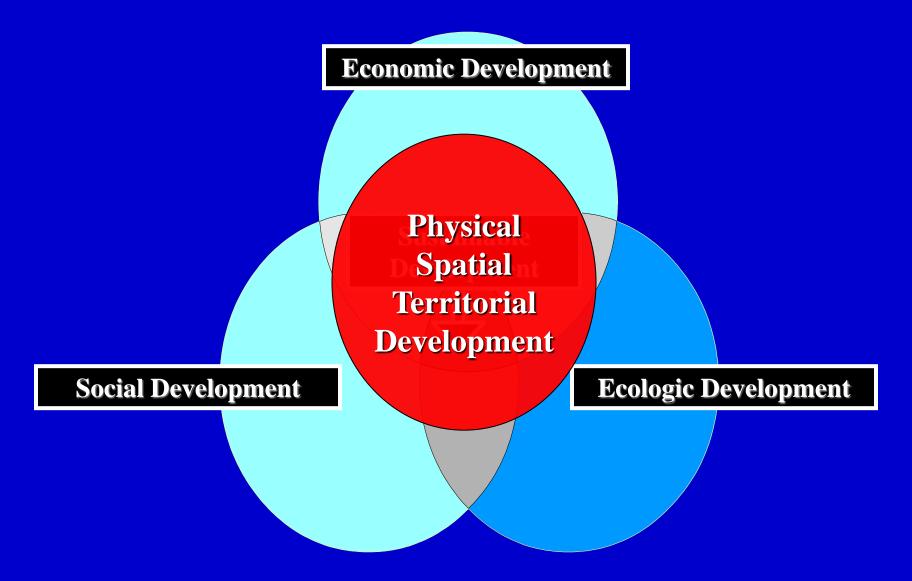
What's sustainable development?





How to reconcile goals and interests of multiple actors, institutions and processes?

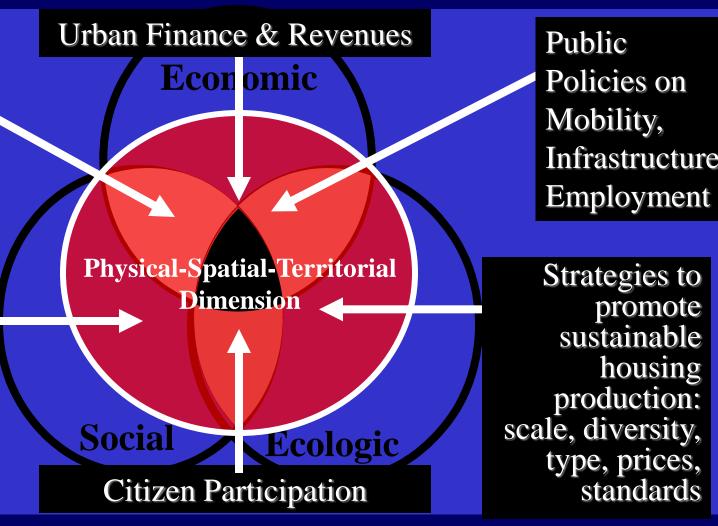
Are we missing a dimension in the Sustainable Development equation?



Sustainable Urban Development

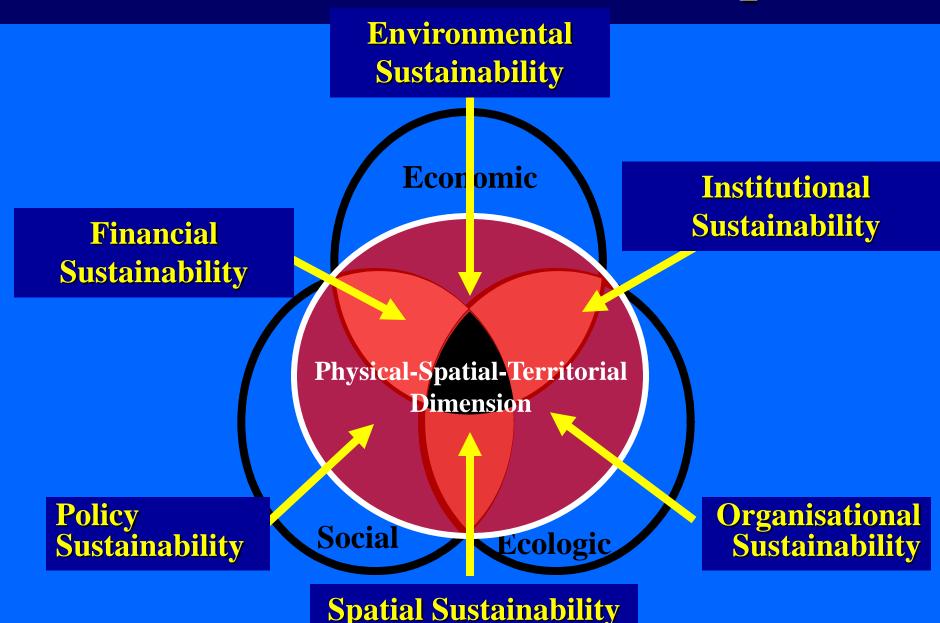
Urban
Policies &
Strategic
Urban Plans

Citywide Slum Upgrading & Regularization of Informal Settlements



Management and Planning for Urbanisation is crucial for the future of a planet of cities

Sustainable Urban Development

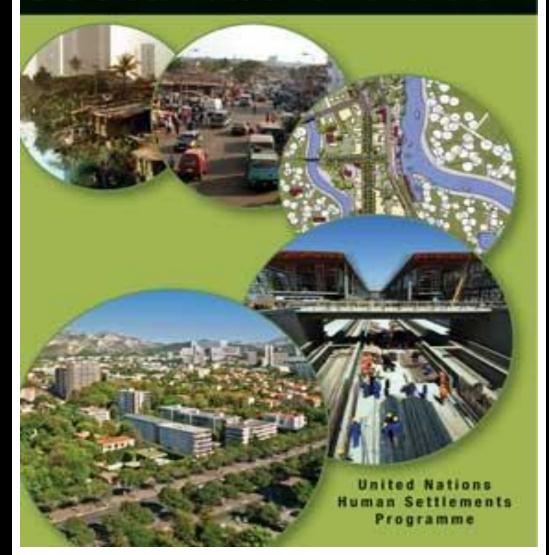


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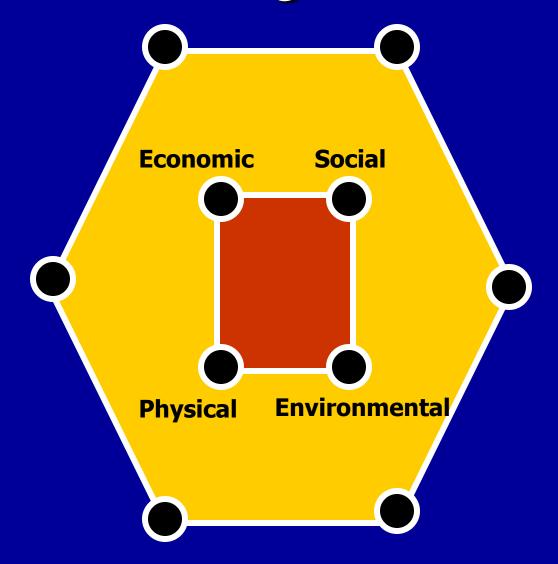
TIME TO THINK URBAN

GLOBAL REPORT ON HUMAN SETTLEMENTS 2009

PLANNING Sustainable Cities



Are we missing a dimension?







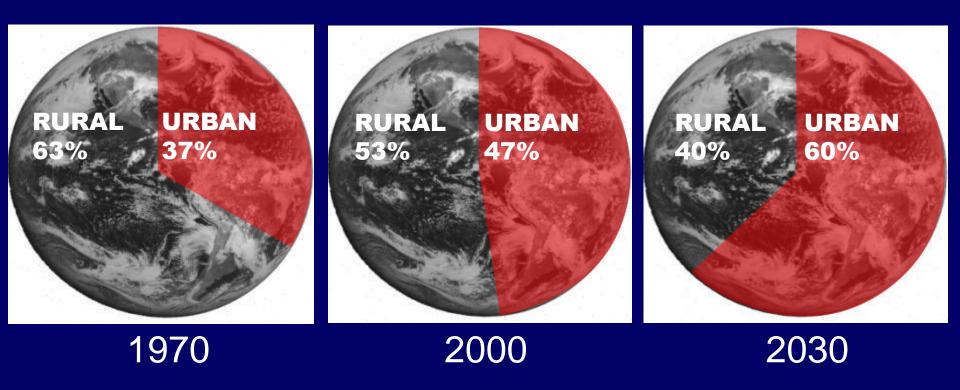
Urban Expansion and New Frontiers of Urban Boundaries:

The sustainable urbanization concept.



29/06/2018 Claudio Acioly

Preparing to Absorb Urbanisation



Source: UN-HABITAT, 2008

Sustainable urban development is the spatial manifestation of urban development processes that create a built environment with norms, institutions and governance systems that enable individuals, households and societies to maximize their potential. These urban development processes must also improve access to a vast range of environmentally and economically efficient services so that homes and neighborhoods, cities and towns are planned, built, renewed and consolidated in ways that minimize any adverse impact on the environment and safeguard the quality of life and livelihood of current and future inhabitants. The term "sustainable urban development" can thus be defined as the spatial transformation of the urban environment and the quality of life of its inhabitants – through participatory, equitable, accountable and effective planning, management and governance processes and systems – making neighborhoods, towns and cities more environmentally sound, economically productive and socially inclusive for present and future generations. GC23 Theme Paper, HSP/GC/23/4, 28 January 2011

INCORPORATING THE "SPATIAL DIMENSION" INTO A DEFINITION OF SUSTAINABLE URBAN DEVELOPMENT

"sustainable urban development can be defined as the spatial manifestation of urban development processes that creates a built environment with norms, institutions and governance systems enabling individuals, households and societies to maximize their potential, optimize a vast range of services so that homes and dynamic neighborhoods, cities and towns are planned, built, renewed and consolidated restraining adverse impacts on the environment while safeguarding the quality of life, needs and livelihood of its present and future populations". Source: UN-Habitat contribution to Rio+20, 27 October 2011.































The Sustainable City:

Enabling cities to maximize its role as engine of development & economic growth without jeopardizing the opportunities of future generations.



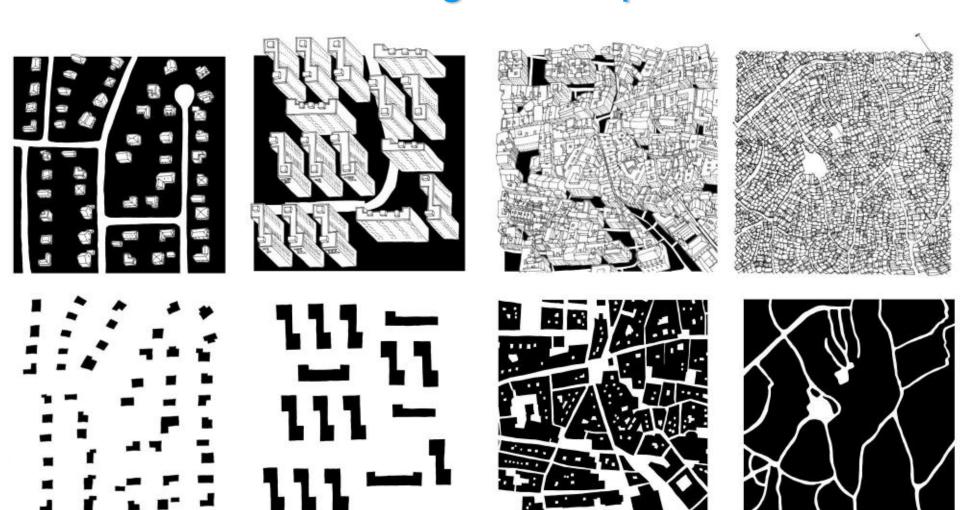
THE "SPATIAL DIMENSION" OF **SUSTAINABLE URBAN DEVELOPMENT (1)**

- 1. The physical manifestation of urbanisation
- 2. Planning and Managing the built environment: land, buildings, infrastructure, services
- 3. Setting up rules: urban laws, norms, institutions, policies and governance systems
- 4. Regulations to enable, prevent and/or harmonize activities & interests of individuals, households and firms
- 5. Harmonize and maximize the economy of scale derived from concentration of people and economic activities

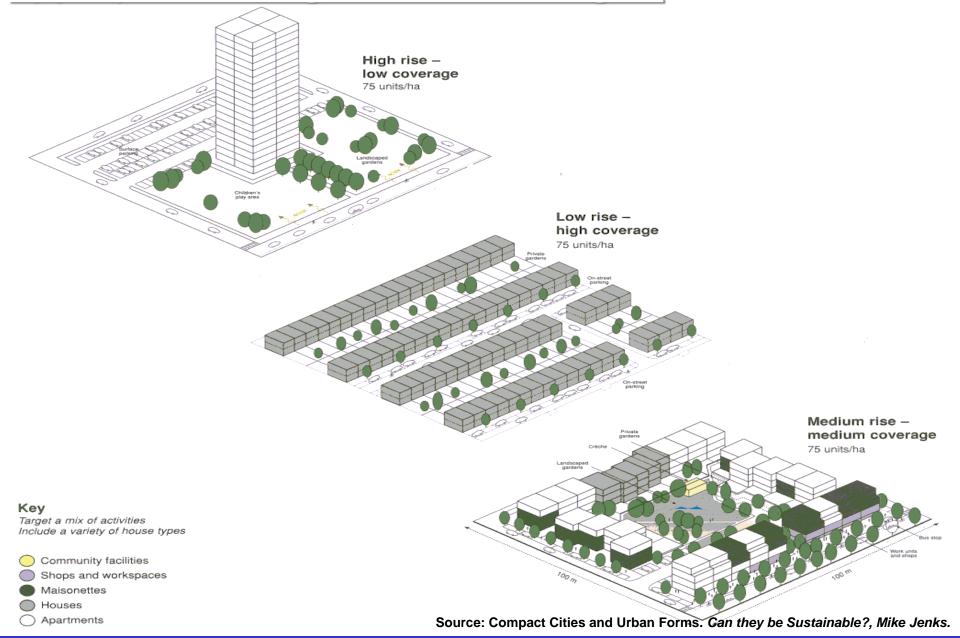
- 6. Maximize the LOCUS of economic opportunities & wealth production: major part of GNP of countries is produced in cities.
- Policies to agglomerations providing services, homes, business opportunities, education, technological innovation
- Adaptation & Mitigation: concentration of environmental vulnerabilities & economic growth
- Systems to safeguard quality of life, needs and livelihood of its present and future populations: human development
- Going green with building cities: construction technologies, use and production, emissions, mobility, 29/06behaviour

Claudio Acioly

Urban Form & Densities: the urban & ecological footprint of cities



Housing Typology: seeking optimal densities, appropriate design and technologies





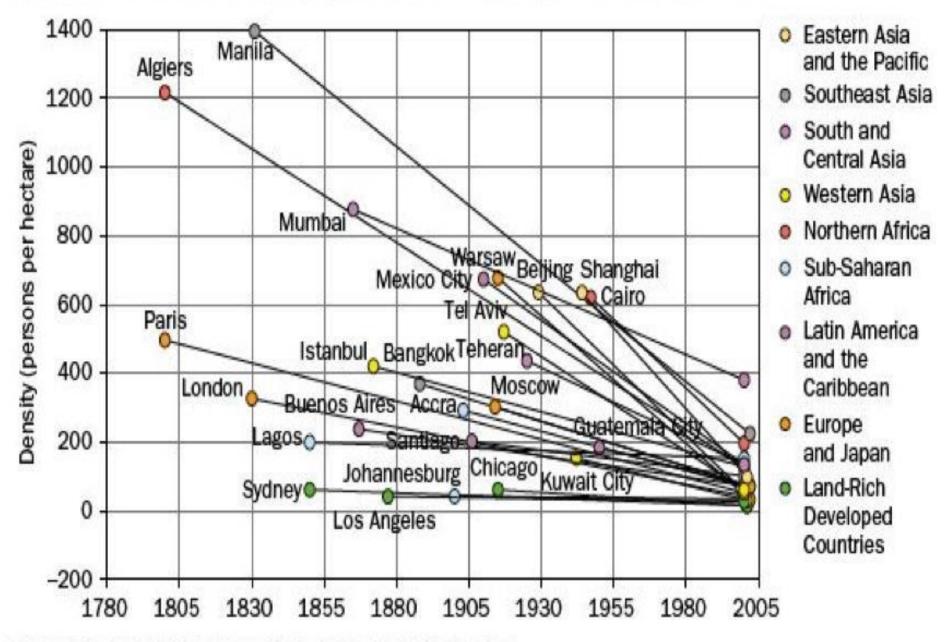


6.

Urban Density:

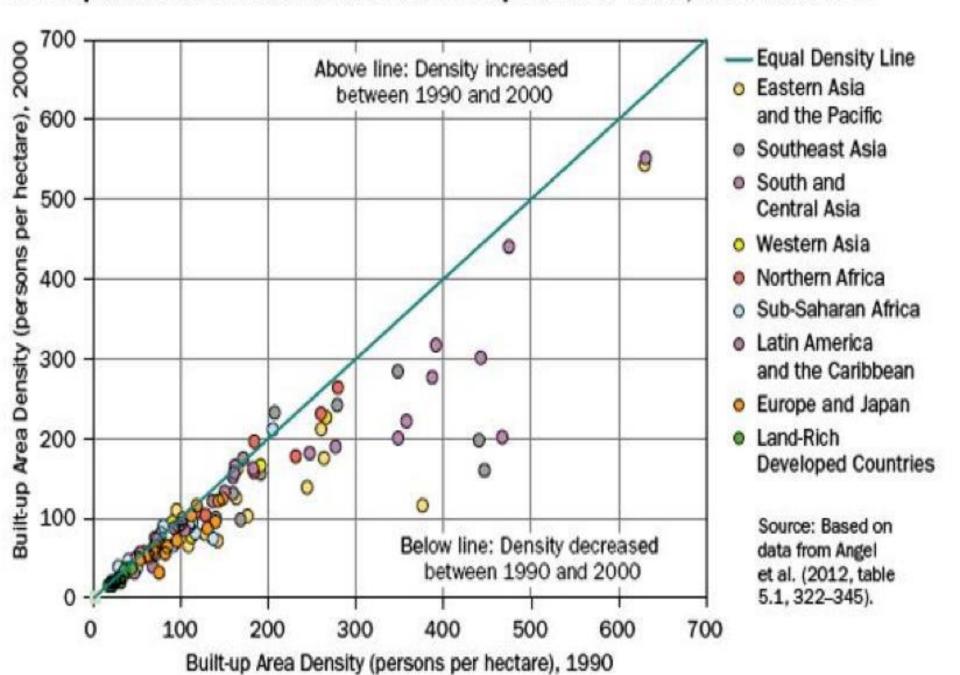
Planning and Urban Management Instruments to enable cities to maximize its resources, infrastructure, land but what is other forms

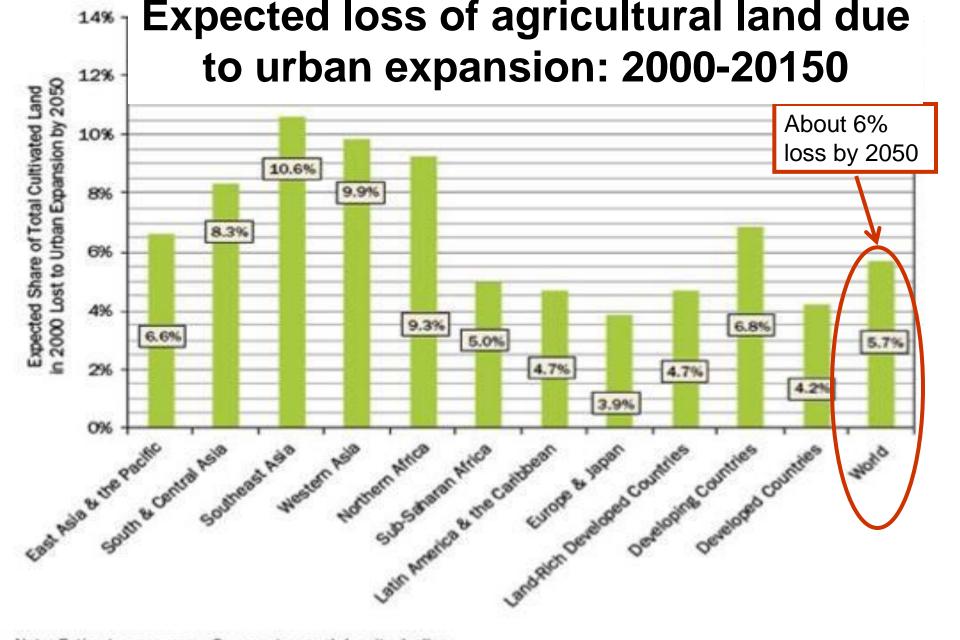
Density Decline in 25 Cities from the Peak Density Year to circa 2000



Source: Based on data from Angel et al. (2012, table 5.2, 346–349).

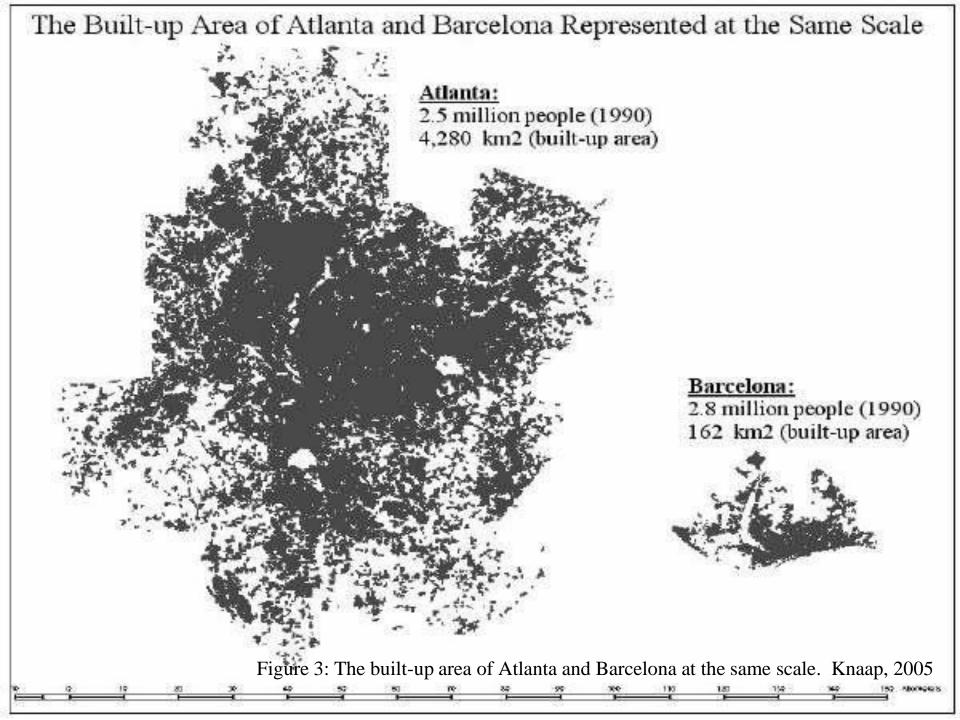
A Comparison of Densities in the Global Sample of 120 Cities, 1990 and 2000



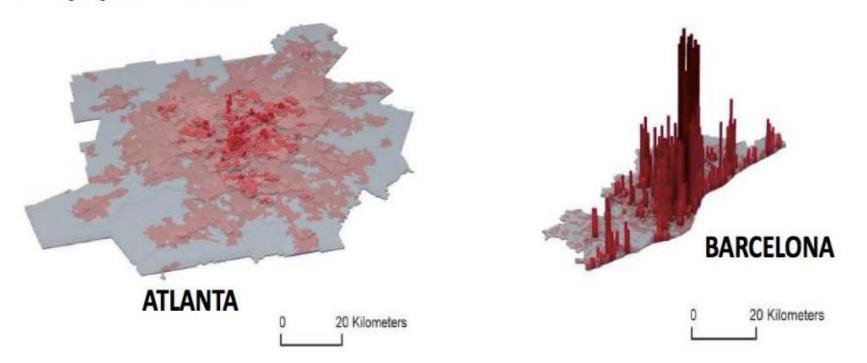


Note: Estimates assume a 2 percent annual density decline.

Sources: Urban land cover data from Angel et al. (2012 online); cultivated land map based on MODIS data in Friedl et al. (2002); and urban expansion estimates based on United Nations Population Division (2010) and the author's density projections.



Similar populations...

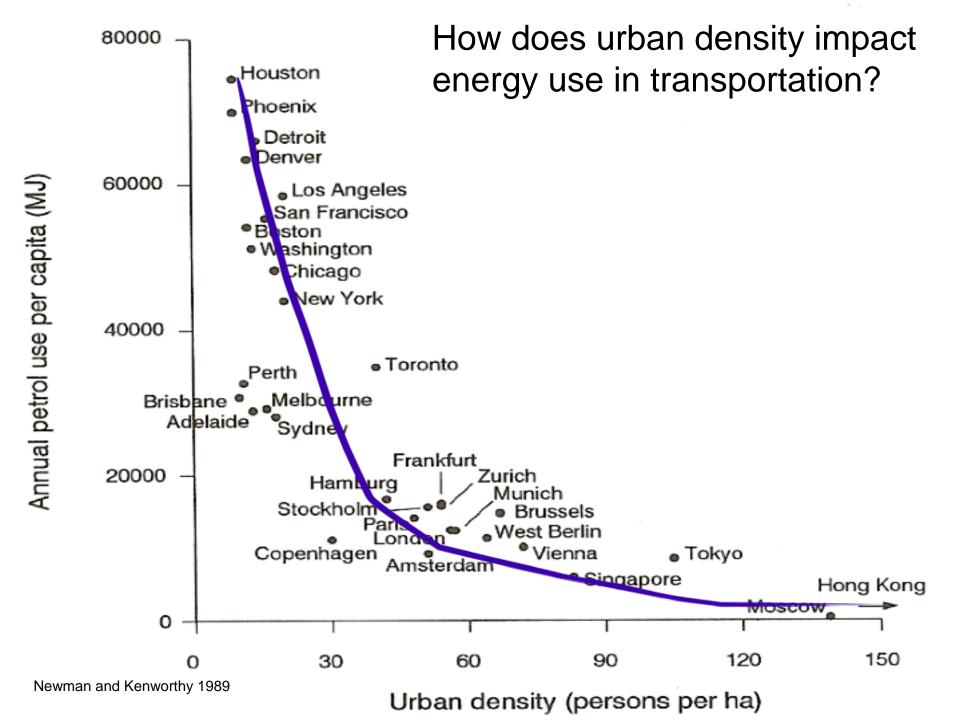


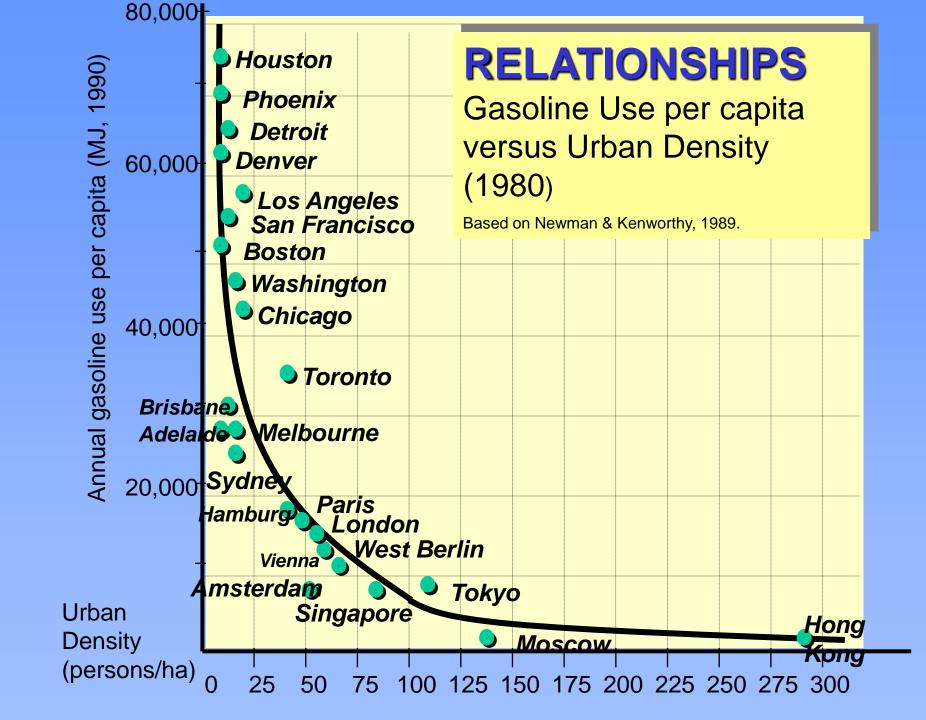
but Atlanta using 11.8x more urban land, 5.75x more emissions per capita

Population 5.3 M Urban area 7,692 km² Transport emissions 6.9 tons CO₂ Population 5 M Urban area 648 km² Transport emissions 1.2 tons CO₂

Atlanta versus Barcelona

- Because of the difference of density, Atlanta's built-up area is 28 time larger than Barcelona's
- As a consequence, the metro of Barcelona is only 99 km long and its stations are within walking distance to 60% of the population
- By contrast, to provide the same service to the same number of people, Atlanta would have to develop 3400 km of metro track!





Achieving the Right Balance & Optimal Use of Land



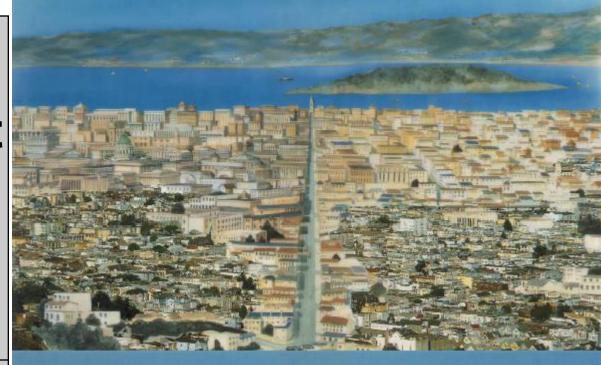
Source: www.urban-advantage.com

Urban Management

San Franciso 1916

Densification

San Francisco 1990's









Mexico





Bolivia

China







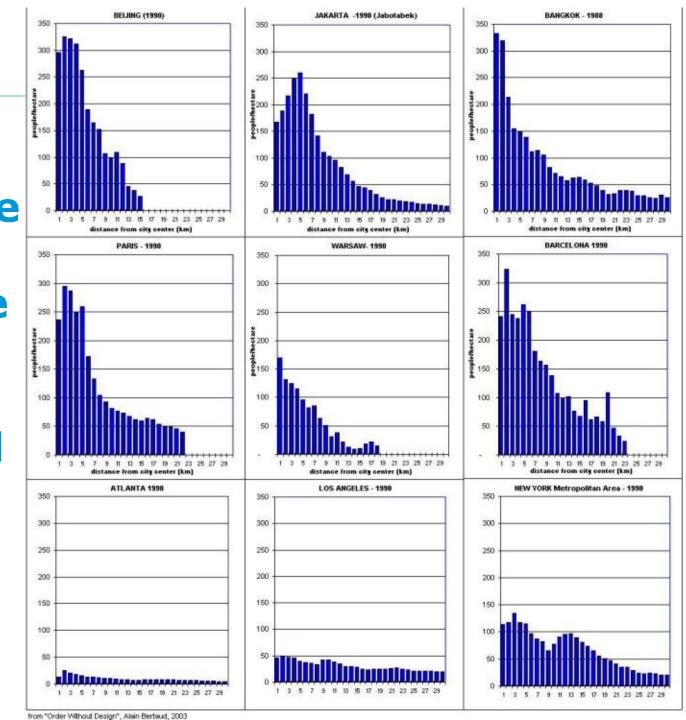


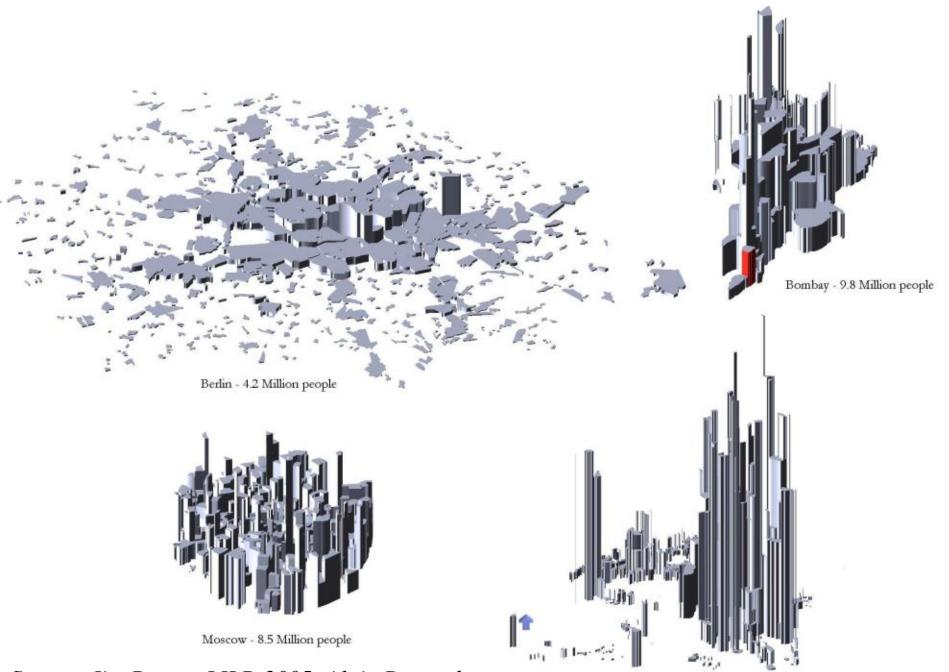




Comparative density profile: nine cities in Asia, Europe, and **USA** Person/ HA vs. **Distance in km**

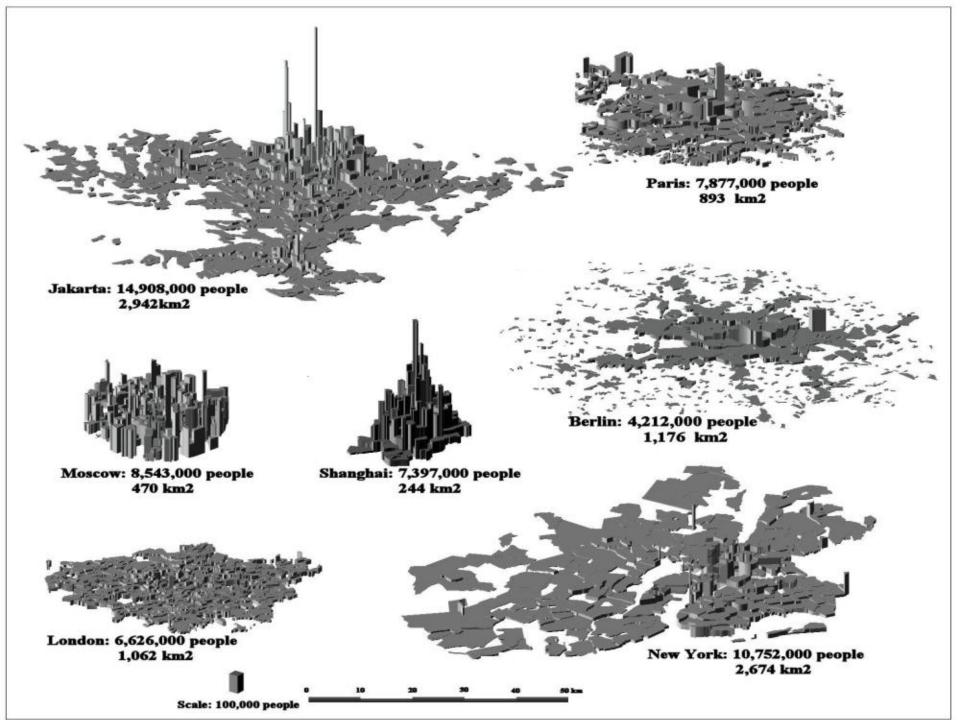
Alain Bertaud





Source: Jim Brown, LILP, 2005; Alain Bertaud,

Hong Kong - 5.4 Million people



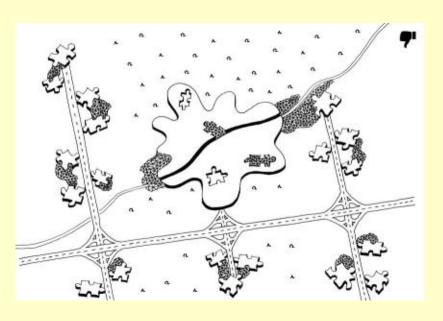


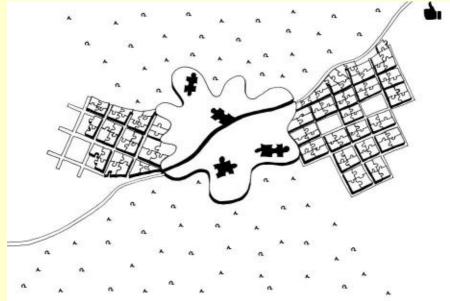
UN-Habitat response to the urban environmental problems:

The Sustainable Cities Programme and the Localizing Agenda 21 Initiative.

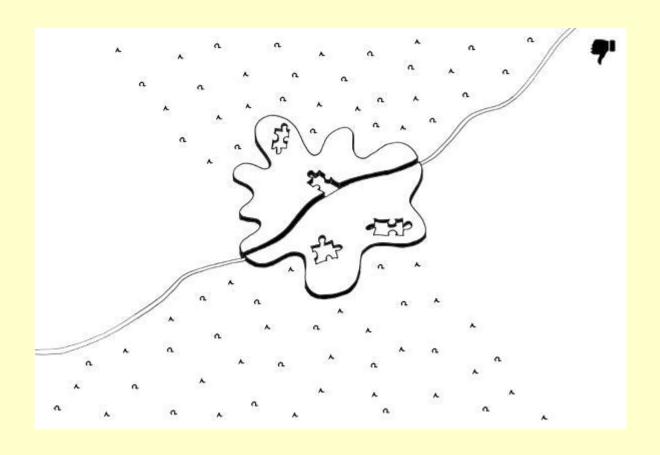


Unsustainable and Sustainable City Growth?



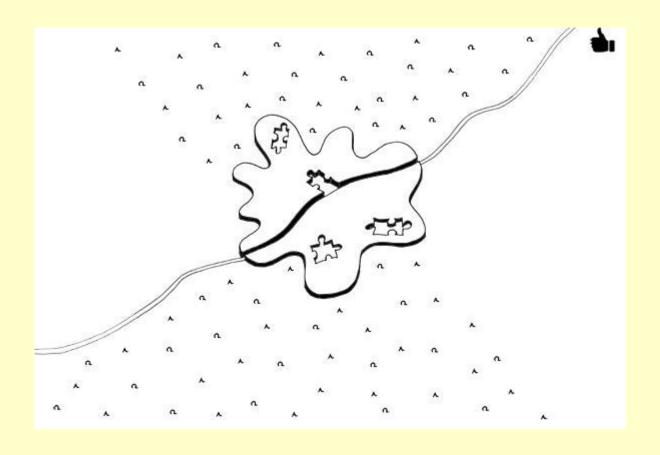


Sustainable City Growth?





Sustainable City Growth?









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