



CREATING MORE AND BETTER PUBLIC TRANSPORT

**MINISTRY OF ENVIRONMENT AND NATURAL RESOURCES
MEXICO**

UNDERSECRETARY OF PLANNING AND ENVIRONMENTAL POLICY



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Sustainable transport is seen as harmonious whole:



- Clean vehicles.
- Transport collective.
- Alternative Mobility (i.e. Bicycle).
- Spatial planning to reduce travel.

The transportation in Mexico currently:



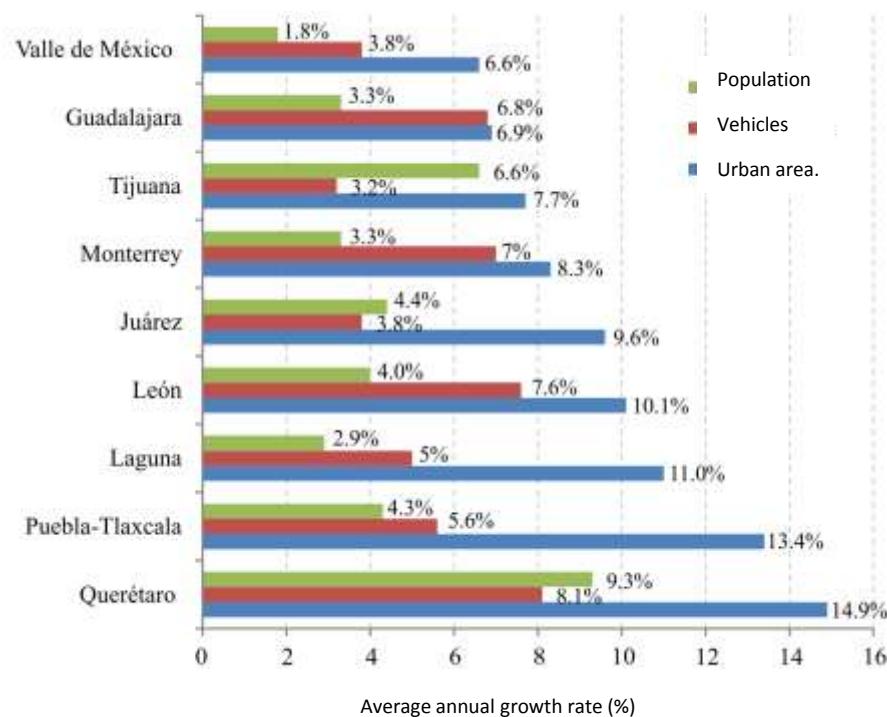
- Contributes **22%** of GHG emissions.
- It is a source of Short-Lived Pollutants with Climate Impact (i.e. black carbon).
- The costs of air pollution accounted for **4.4% of annual GDP**.
- By type of transport:
 - **91.9% trucking.**
 - 5% aerial.
 - 1.5% marine.
 - 1.2% rail.
 - 0.17% electric.

Metropolitan Areas

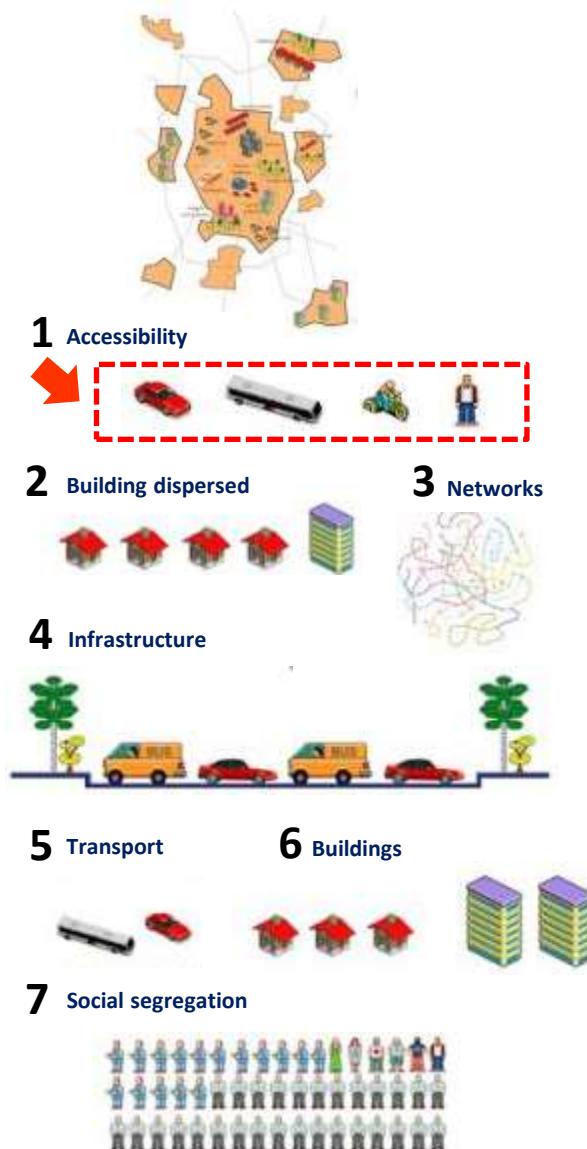
- **93 metropolitan areas**
- **383 municipalities**
- **Population:**
 - 1980: 36,186,103
 - 2010: 70,869,282
- **Surface area**
 - 1980: 177,112
 - **2010: 1,049,621**
- Rate of density reduction 30 years : **-3.6%**
- The vehicular density in the country has grown at an average rate of **7.7%** per year, well above the GDP growth (**<3.5%**) and population (**<2%**).



Some interesting facts in cities:

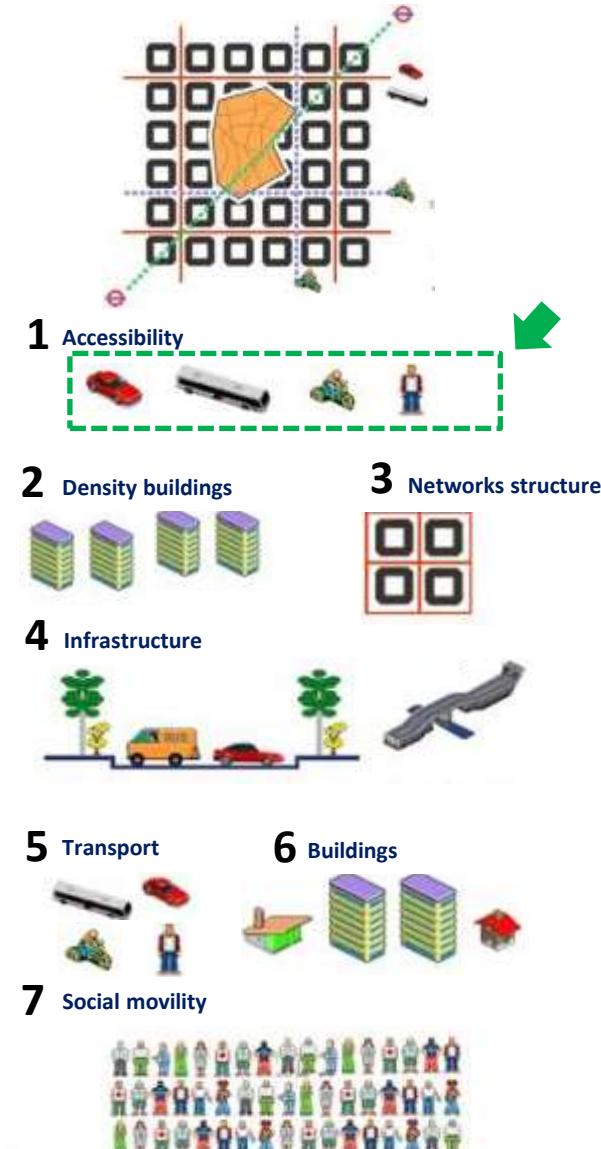


SUSTAINABLE CITIES MUST BE COMPACT AND HIGH-DENSITY



City:

- Compact**
- Dynamic**
- Polycentric**
- Equitable**



Figures from:

Model sustainable city: *sprawling city vs. compact city*. Available at: Disponible en: <http://oestearquitectos.blogspot.mx/2012/03/modelo-de-ciudad-sostenible-ciudad.html>

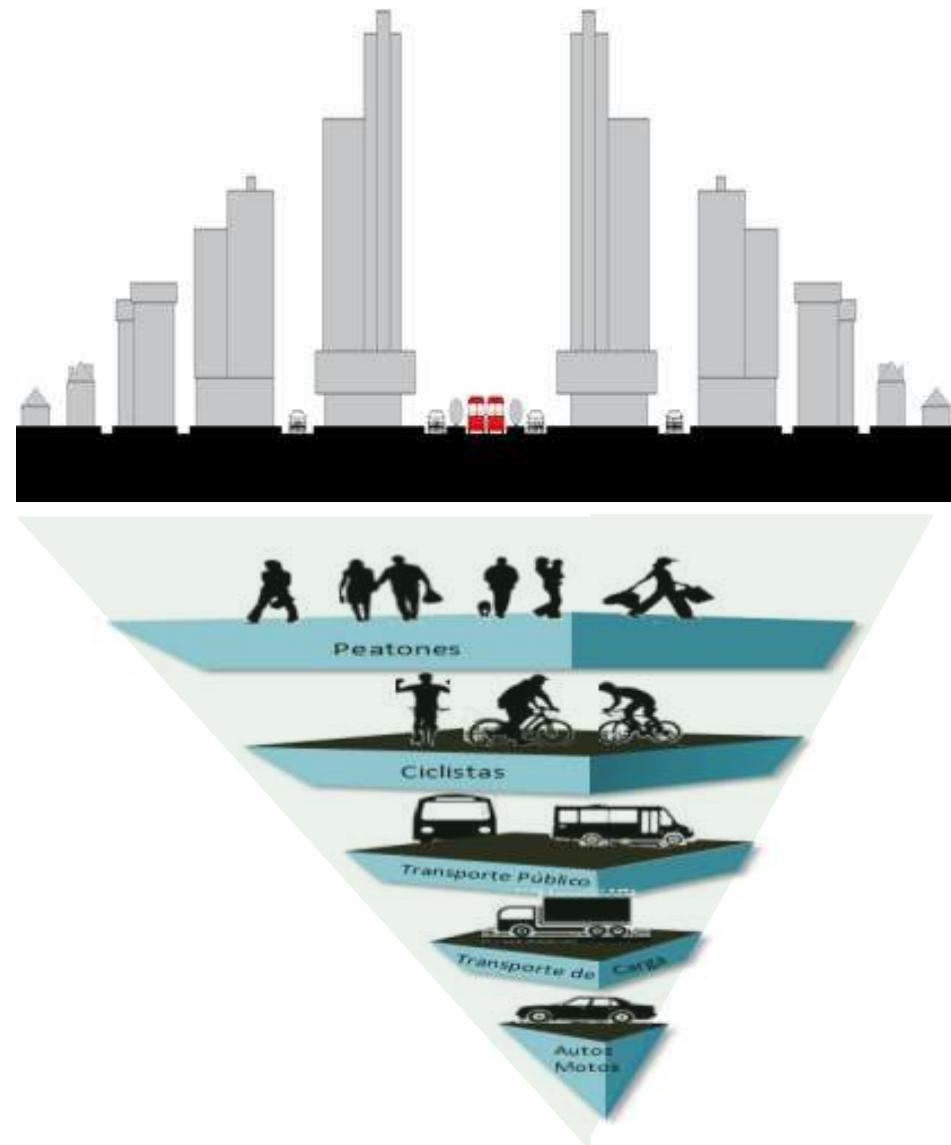


- ✓ **Densification of urban areas (P)**
- ✓ **Urban transport planning (P&R)**
- ✓ **General rules for urban transport (R&T)**
- ✓ **Energy efficiency standard and technological improvements on vehicles (T&R)**
- ✓ **Freight transport policies (R)**
- ✓ **Carbon taxes for fuels (R & Ec)**

¿How prioritize transport policies?

- Mass Transit Systems (BRT and others)
- Optimization of existing routes.
- Vehicle technology & alt. fuels
- Non-motorized transport
- Transport Demand Management

Among others...





THANK YOU

Optimizing public transportation system in dense urban centers based on 2 existing programs PROTRAM and UTTP

- PROTRAM (Federal Public Transportation Program) - promotes investment in public transport through federal financial assistance and private sector participation.
- UTTP (Draft Urban Transport Transformation) - provides concessional financing for infrastructure and low-carbon transport. This program can fund projects of less than 500,000 inhabitants and complementary infrastructure.

PROTRAM, Major projects

