

A crack in the automobility regime? Exploring the opportunities and challenges for sustainable urban mobility policy implementation in São Paulo, Brazil.



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São Paulo: overview

- ▷ Home to 11.3 million people.
- ▷ 21 million people in the metropolitan region.
- ▷ Rapid urban growth from the 1950s.
- ▷ Economic powerhouse of Brazil.
- ▷ GDP was 189 billion NZD in 2011 (Fecomercio).



Source: Michael Guimarães, Flickr.



Source: Valrui, Flickr.

Urban mobility in São Paulo

- ▷ Historical car-based urban growth.
- ▷ 6 million automobiles in the city (Detran).
- ▷ Heavy traffic congestion, with an average commute time of 2 hours in 2016.
- ▷ Traffic causes a 65 billion NZD drain on the economy per year (Haddad & Vieira, 2015).
- ▷ Shared governance structure.

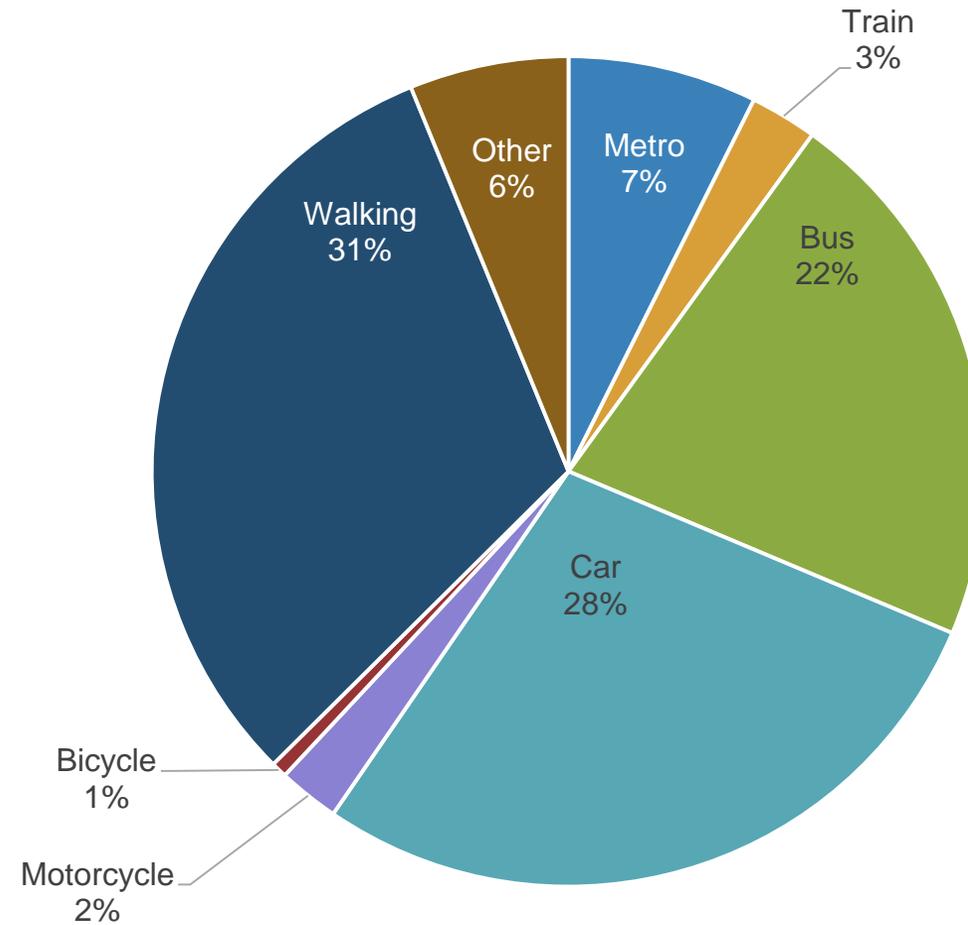


Source: Reuters.



Source: Johnny De Franco, Sigmappress, Estadão Conteúdo.

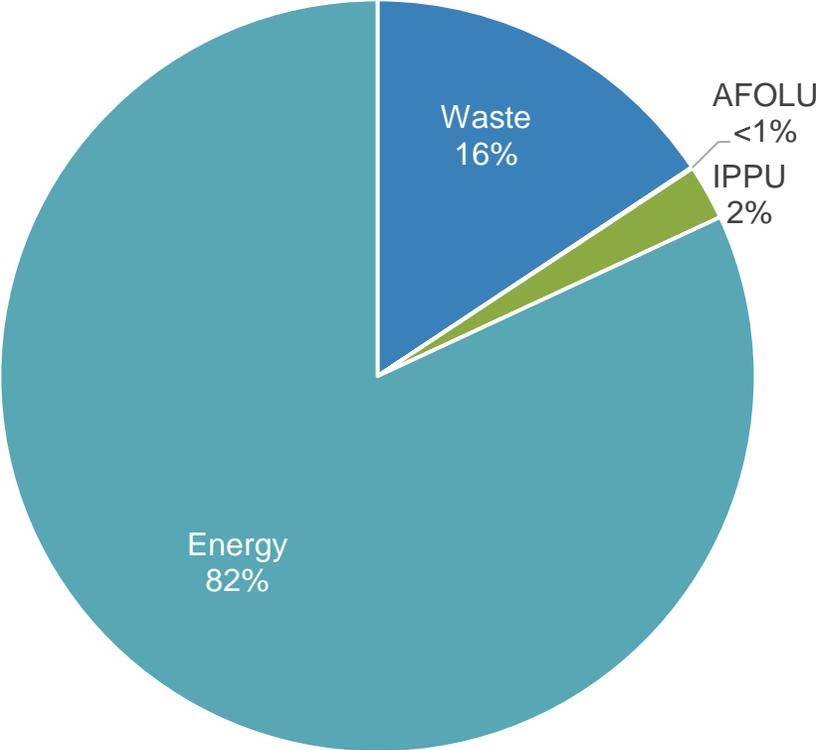
Modal Share 2012



Adapted from Pesquisa Origem-Destino (Metro SP, 2012).

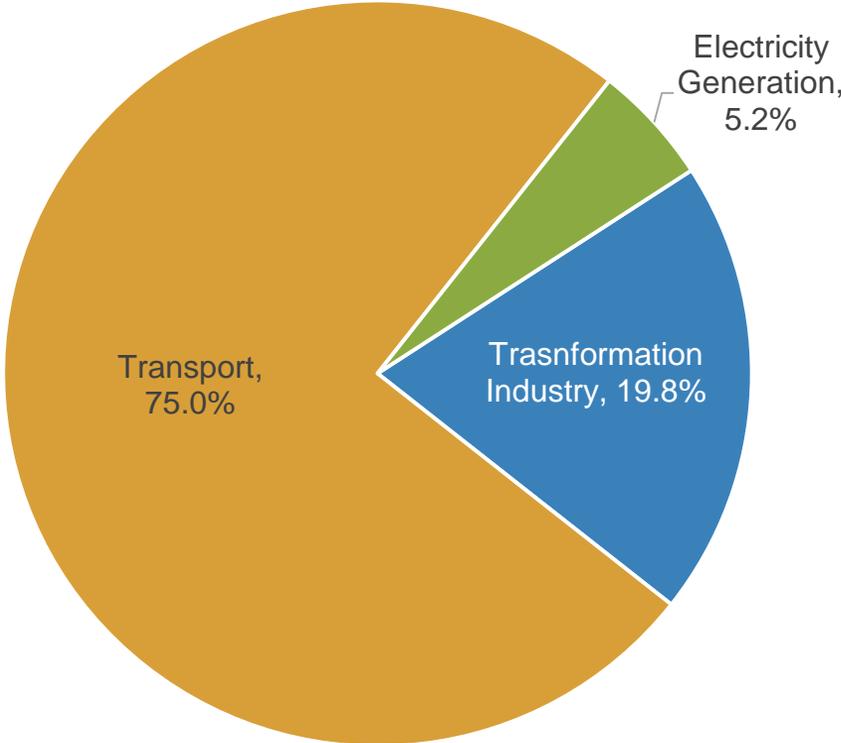
GHG Emissions in São Paulo (2003-2009)

GHG emissions in São Paulo (2003-2009)



Source: Prefeitura de São Paulo, 2013

Fuel Combustion Subsector (2009)



Source: Instituto Ekos Brasil and Geoklock Consultoria, 2013

Master Plan and Urban Mobility Plan

- ▷ 2012 National Urban Mobility Law – calls for sustainable urban development and social control.
- ▷ 2014 Strategic Master Plan – guiding urban development for the next 20 years.
- ▷ 2015 Urban Mobility Plan – guiding the urban mobility system for the next 15 years.

Methodology

- ▷ Aim: To analyse the sustainable urban mobility policies implemented in São Paulo in accordance with the city's Strategic Master Plan and Urban Mobility Plan.
- ▷ Research adopts a qualitative approach.
- ▷ 17 semi-structured interviews with 20 participants
- ▷ Thematic interview analysis.
- ▷ Use of secondary data sources.

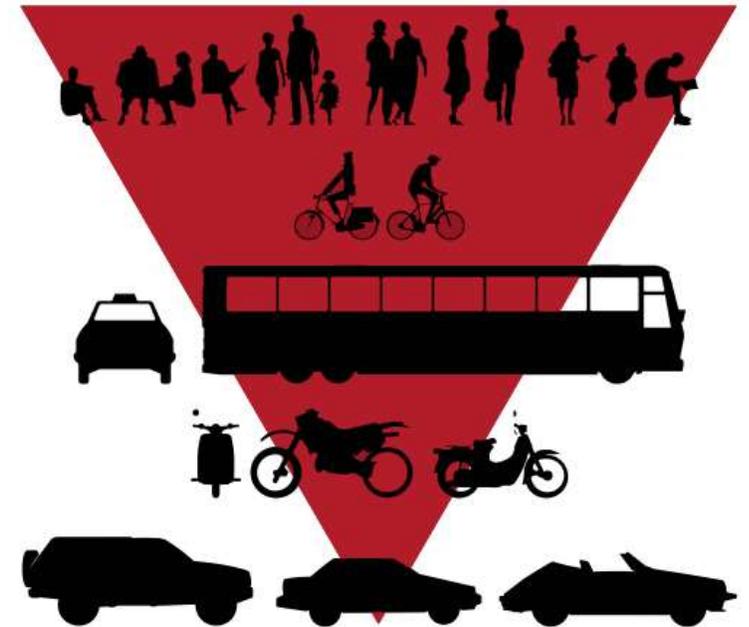
Sustainable Urban Mobility

Four actions required to achieve sustainable mobility (Banister, 2008):

1. Reduce the need to travel – substitution;
2. Reduce levels of car use – modal shift;
3. Land-use policy measures – distance reduction;
4. Technological innovation – efficiency increase.

“Transport planning must involve the people”
(Banister, 2008, p. 75).

“There must be a willingness to change” (p. 79).



Transport Hierarchy. Source: Bike Perth

Socio-technical transitions to sustainability

- ▷ Transitions: shifts from one regime to another
- ▷ Why socio-technical?

The Multilevel Perspective (MLP) Framework

1. Niche: locus for innovation development;
2. Regime: practices and rules stabilizing the system;
3. Landscape: exogenous context.

Four characteristics of the MLP:

1. Co-evolutionary and systemic process (Geels, 2012);
2. Actor-based approach;
3. Stability and change;
4. Complex Dynamics.

Implementation of sustainable urban mobility policies

- ▷ Institutional capacity:
 1. problem of fit;
 2. horizontal coordination;
 3. human and financial resources.

- ▷ Urban political economy factors:
 1. local framing;
 2. leadership.

- ▷ Trigger events and windows of opportunity.

Understanding Policy Windows

- ▷ Kingdon's (1995) Multiple Streams Framework.
- ▷ Three separate processes:
 1. Problems;
 2. Process;
 3. Politics.
- ▷ Streams come together forming a policy window.
- ▷ Critical role of policy entrepreneurs in linking streams.

June 2013 Protests

- ▷ City government announced 0,20c fare hikes;
- ▷ Expensive and low quality public transport;
- ▷ Groups take to the streets protesting the measure;
- ▷ Violent police repression;
- ▷ Demonstrations gain force and spread nationally;
- ▷ Fare hike rejected.



Source: Terra



Source: Estadão Conteúdo

The policy window in São Paulo

- ▷ New administration elected in 2012;
- ▷ Mayor's commitment with cycling advocates;
- ▷ Sustainable urban mobility in the agenda;
- ▷ Protests provided momentum for policy;
- ▷ Political will and leadership.



Source: R7



Source: Associação Cilocidade, Flickr

Policies implemented

- ▷ CMTT - space for civil society participation;
- ▷ 2015 Urban Mobility Plan;
- ▷ Bus lanes and bus corridors;
- ▷ 400km cycling network by 2016;
- ▷ Mobilab – innovation in transit management;
- ▷ Speed limits reduction;
- ▷ Metro and train network expansion;
- ▷ Paulista Aberta.



Source: Ciro Amado, Flickr



Source: Luiz Cláudio Barbosa, Estadão Conteúdo

Transition to sustainable mobility in São Paulo

- ▷ Local framing for policy implementation: urban mobility problems.
- ▷ Momentum for sustainable urban mobility in the city.
- ▷ Alternative regimes to automobility have gained space.
- ▷ Spaces for civil society participation have been opened.
- ▷ Political will and demonstrations were fundamental.
- ▷ Key role of sustainable mobility advocacy groups.



*The privilege of the car is now
being contested and this is socially
accepted*

Transition to sustainable mobility in São Paulo

- ▷ There has been a 'crack' in automobility, but this regime is still dominant.
- ▷ Regime is reinforced by social and governance factors:
 1. Car ownership association with status;
 2. Fragmented governance structure.
- ▷ Institutional capacity difficulties.
- ▷ Concern with new city government elected in 2016.
- ▷ São Paulo as an example for other Brazilian cities.

Recommendations for future research

- ▷ Integrating São Paulo's metropolitan region.
- ▷ Integrating the urban mobility governance structure in the city.
- ▷ Policy change with newly-elected city government.
- ▷ More research analyzing socio-technical transitions in Brazilian cities.

Thanks!

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