

Indicators of Inclusiveness in Transport

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Sustainable Cities

- An ‘Inclusive Approach’ that is pegged on four pillars:
 - (i) Environmental sustainability,
 - (ii) Social equity,
 - (iii) Economic growth and
 - (iv) Political empowerment

Macro Level Indicators

Input Indicators

- Fiscal Instruments – These are in the national and state level decisions within the Indian Federal structure. These decide the pricing of the public transport at the local level. Many
 - Taxation
 - Subsidies
- Urbanisation
 - Level of urbanisation (population base)
 - Rate of urbanisation (rate of rural urban population migration)
- Urban settlement structure and policy – Determines the urbanisation structure such as concentration of population in mega cities or more dispersed urbanisation

- Urban Employment structure
 - Extent of participation of workers in the economy
 - Employment Structure , determines the travel needs (41% of urban workers are self employed, 41% are regular employed and have regular travel pattern)
 - Of the self employed, 5-6% are working as street vendors, who can be displaced by the transport projects
 - About 6-7% of male workers in the metros and 10-12% of the male workers in non-metros are in transport
- Financing of transport under the national level programmes – In this, expenditure on NMT at the national level
- Urban land policy – Landuse policy instruments at the national level, including space allocation for informal sector



Output Indicators

- Health indicators

Characteristics of Indian Cities (All South Asian cities)

- Mixed land use and high densities, which reduces travel demand by motorized vehicles
- Informal sector – informal housing & informal working and now increasingly home-based working (Nearly half of the manufacturing employment in urban India has moved into self-employment category, that is working out of homes).
- Informalities are caused on account of economy as well as legislative structure – poor live in the interstices of formal land market
- Is transport a reason for ‘slumming’?

Transport & Urban Poor in Reforms period- Metros

- Land market dynamics (speculative land market) have led to urban sprawl and pushing out of the urban poor to the peripheries.
- Thus, the cost of travel, especially for the poor, has increased considerably (NUTP, 2006).
- Women drop out of the labour force, inspite of need to earn, in the poor families in event of displacements or poor women trade their time for money
- Thus, poor's access to livelihood have become far more difficult.
- Spaces for vending are vanishing on account of public transit systems as well besides competing demands of private vehicular traffic and parking

Differentials within the poor

- Poor working women have fewer transport choices.
- Cycling is a taboo. Shared autos are not always preferred. Most women walk to work in Indian cities.
- Most poor women manage household, children and work.
- Even in poor households, rest of the family does not have an access to private modes.
- Long walking hours cuts into their leisure and creates a situation of time poverty



Photo: Carlos F. Padro

- **Access**
- **Infrastructure for each mode**
- **Safety**
- **Mobility needs**
- **Time use**

Level of Accessibility

- **'Shorter' distance** - linked with time spent, cost and mode selection.
- There might be different benchmarks for the different sizes of the cities.
 - For such cities, one-way trip of walking for more than 30 mins (for men and 15 mins (for women) or more than 20 mins of cycling can mean putting an 'extra effort'.
- 'Short distance' would vary according to the trip purpose. Work trips could be longer compared to shopping or education trips.

Other corresponding conditions for inclusiveness

- Heterogeneity, mixed land use, multiple job centers
- Displacement in the cities
- Low-income group housing policies – i.e. Land reservations for the poor in planning mechanism
- Effective parking policy – encouraging restrains in parking by pricing
- Air-pollution – more share of low-carbon transport

How to bring inclusiveness

- Inclusiveness is not 'topping on the cake' or add-on. It is the base
- Inclusiveness is addressing structural aspects
- Inclusiveness is multi-focal view of society
- Inclusiveness is paying special attention to needs of vulnerable population through policy interventions
- Benchmarking important for inclusiveness
- Inclusive of all trip-purposes

For inclusiveness

Transport surveys to include data disaggregation by:

- All trip purposes
- Economic groups
- Social groups to capture the issues of minorities
- Residents of vulnerable geographic locations such as peripheral areas and rehabilitated areas
- Age groups
- People with special needs

The data should be disaggregated by gender

Attention to be given to in methodology

- i) Slum dwellers
- ii) Within the slums, of households living in katcha housing as that is indicating BPL households
- iii) Recent migrants to the city and temporary migrants to the city
- iv) Residents of old city
- v) Households living in relocated sites
- vi) Scheduled Caste households
- vii) Minority groups
- viii) street vendors etc.