CITIES, HEALTH AND WELL-BEING NOVEMBER 2011

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Transport Equity; Istanbul, São Paulo and Mumbai



TRANSPORT EQUITY

Sao Paulo, Istanbul and Mumbai

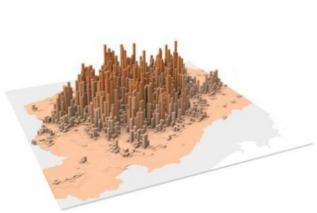


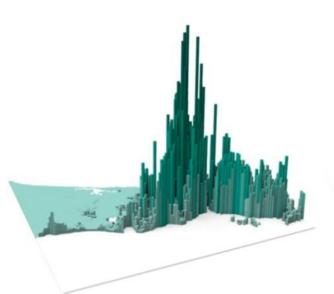
Urban Age Health and Well-being Conference Hong Kong, 17 November 2011

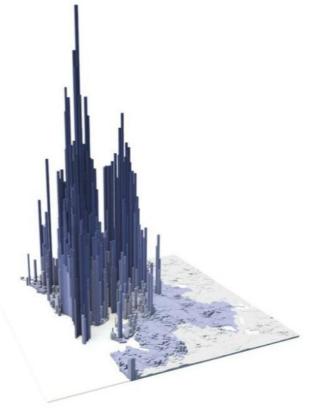
Philipp Rode, LSE Cities / Urban Age Programme London School of Economics and Political Science



RESIDENTIAL DENSITY







SAO PAULO

10,376

Avg. density central area of 10 km radius [pers./sqkm]

29,704

Max. Density [pers./sqkm]

ISTANBUL

20,128

Avg. density central area of 10 km radius [pers./sqkm]

77,267

Max. Density [pers./sqkm]

MUMBAI

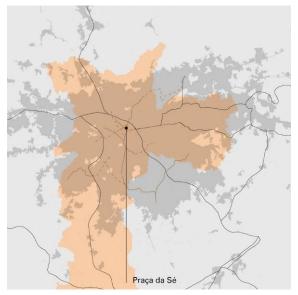
25,316

Avg. density central area of 10 km radius [pers./sqkm]

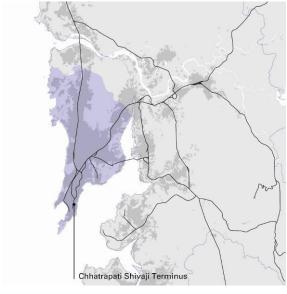
121,312

Max. Density [pers./sqkm]

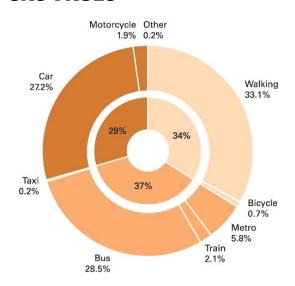
RAIL TRANSPORT INFRASTRUCTURE AND MOBILITY PATTERNS



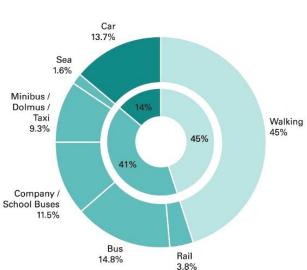
Taksim Meydanı



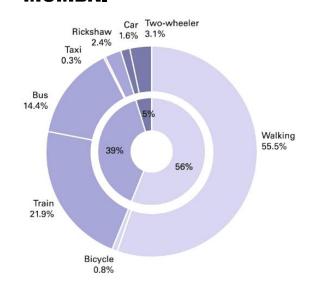
SAO PAULO







MUMBAI



URBAN AGE SURVEY BY LSE CITIES

 Household Surveys across metropolitan region commissioned by LSE Cities and conducted by IPOS MORI covering key urban policy areas

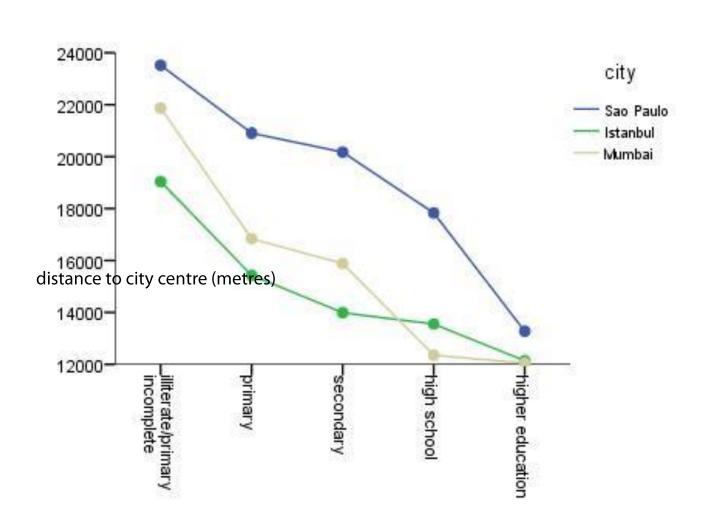
city	year	sample size
Sao Paulo	2008	1,000
Istanbul	2009	1,013
Mumbai	2010	1,001

Transport Section

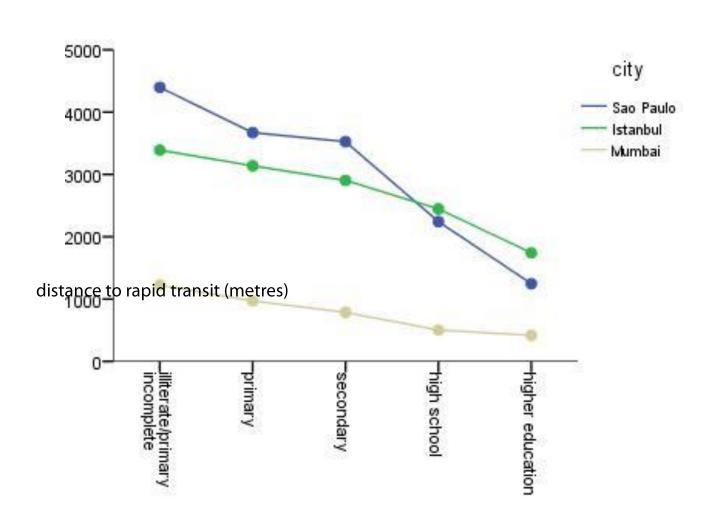
general transport patterns	main daily trip information	
travel time to various services	trip duration	
access to car	modal shares	
location	trip purpose	

• **Education levels** were used as best proxy for socio-economic status across the three cities

EDUCATION LEVEL AND DISTANCE TO CITY CENTRE



EDUCATION LEVEL AND DISTANCE TO RAPID TRANSIT NETWORK



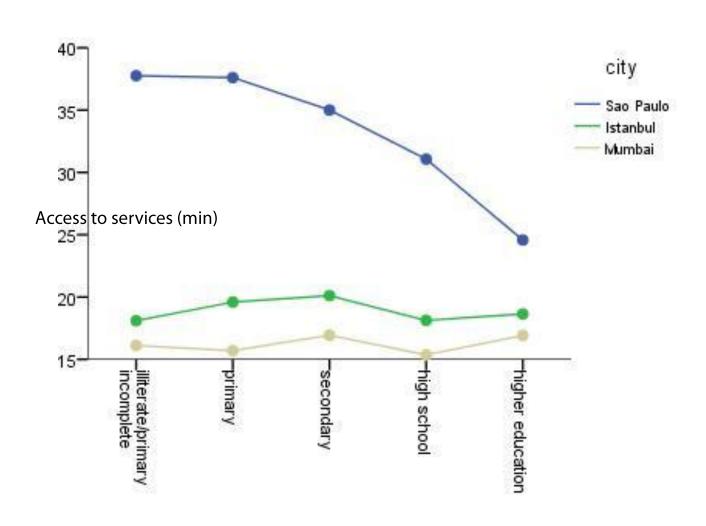


DIMENSION OF ACCESSIBILITY

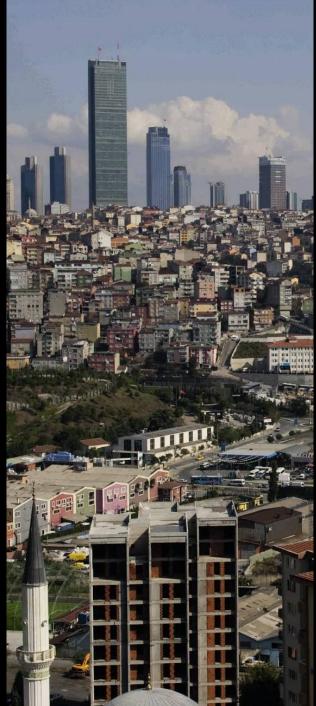
- 1. Cost
- 2. Time
- 3. Reliability
- 4. Service frequency
- 5. Physical comfort
- 6. Safety
- 7. Security
- 8. Convenience



EDUCATION LEVEL AND ACCESS TO SERVICES



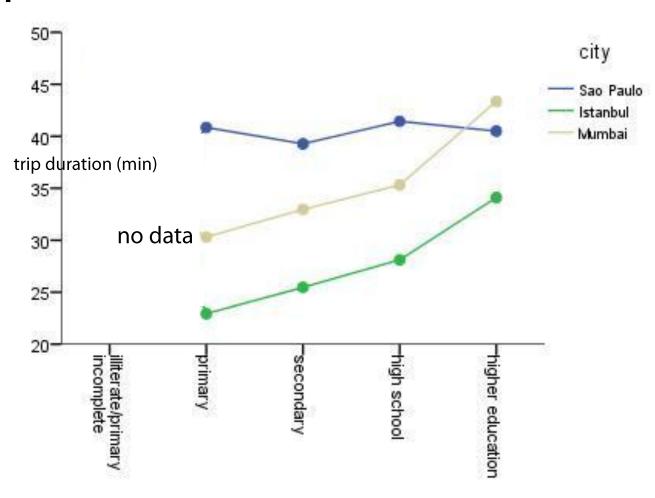






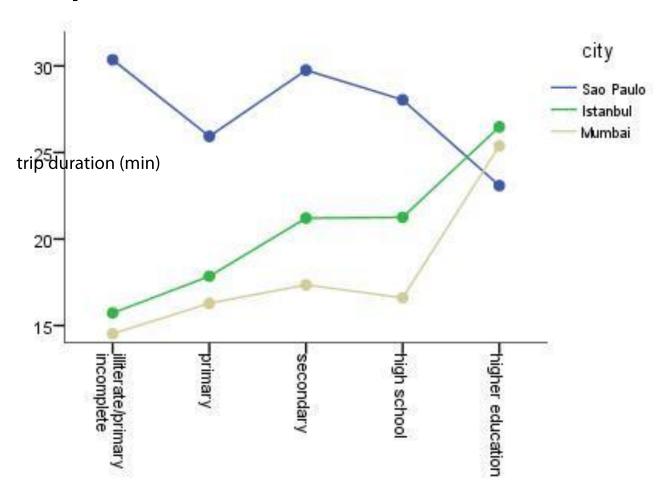
EDUCATION LEVEL AND TRIP DURATION

Work Trips

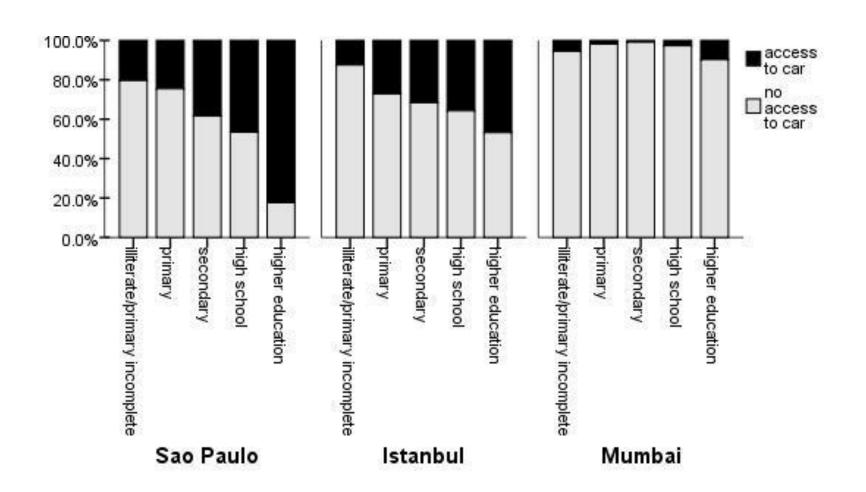


EDUCATION LEVEL AND TRIP DURATION

Non-Work Trips

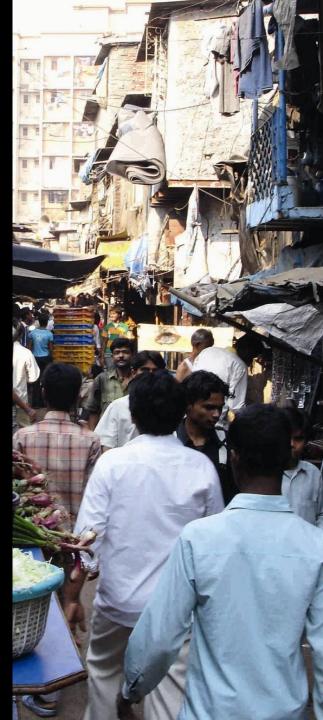


EDUCATION LEVEL AND ACCESS TO CAR









CONCLUSION

- Mumbai is the "accessibility machine" compared to the other two cities
 - Unique access also for disadvantaged groups
 - Accessibility is based on density, mix use, linear character of the city with it it's great rail
 accessibility
 - BUT compromises exist elsewhere: Personal living space, housing quality and overcrowding of public transport.
- Sao Paulo is the least accessible city with the lowest transport equity
 - Low level of accessibility for the least well-off, re-enforcing its high income inequality
 - Informal, poorer developments mainly occur at the inaccessible fringes, far away from centres of work and often even public transport
- Istanbul sits somewhere between Mumbai and Sao Paulo, sharing more similarities with the former.
 - Hypothesis that Istanbul's 'consolidated informal development' at relatively high density levels might represent the most inclusive form of urban development
 - Minimizing the trade-off between access and housing quality

