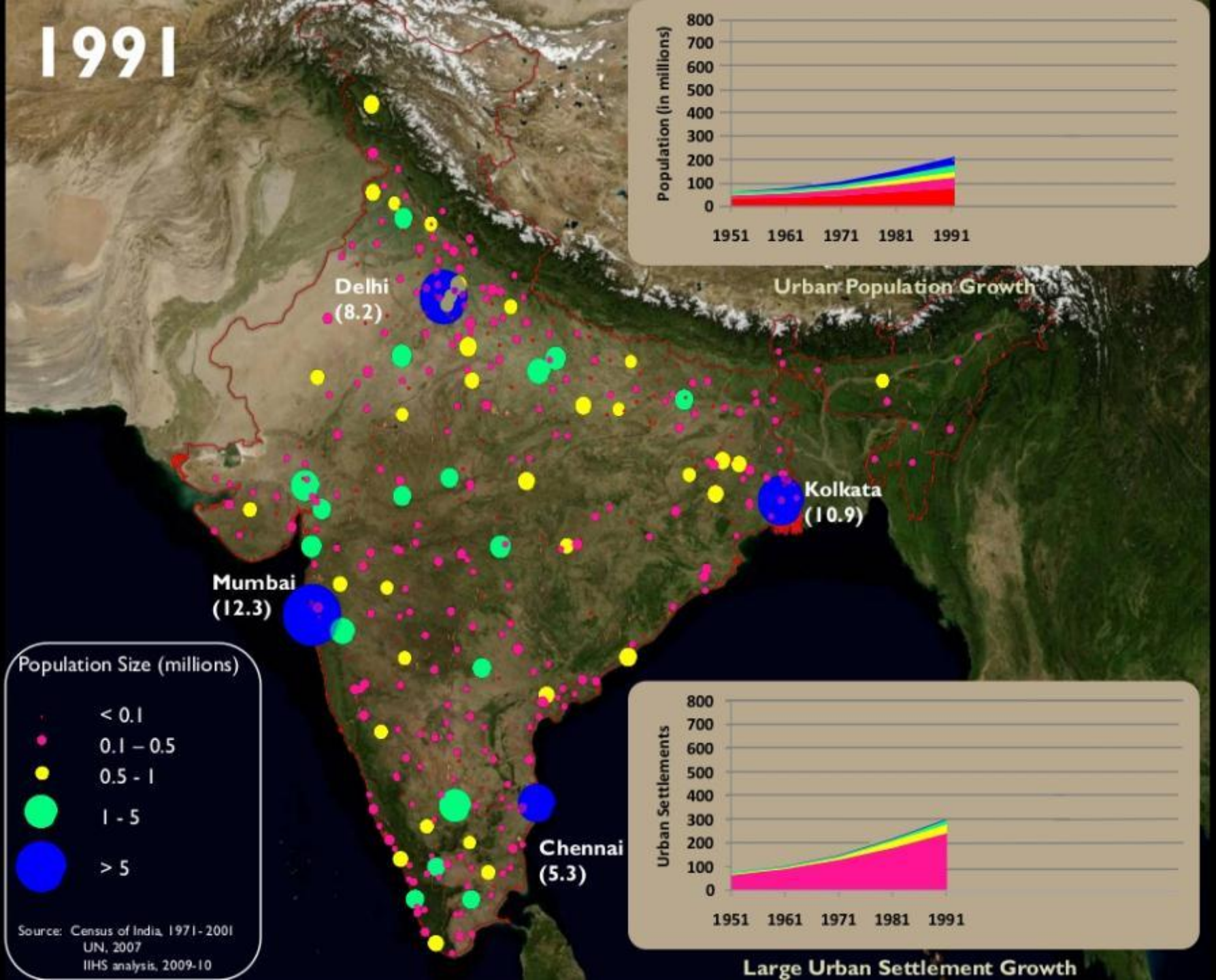
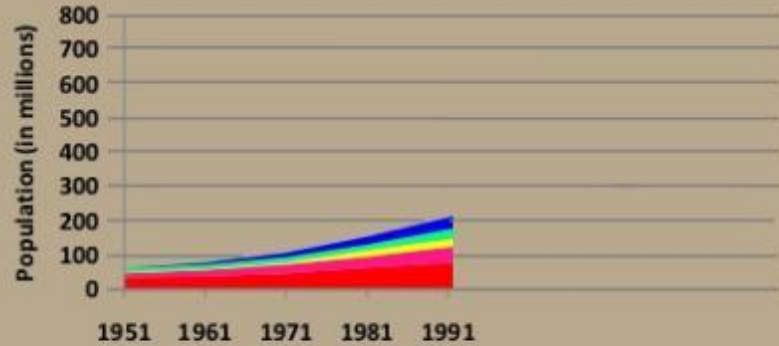


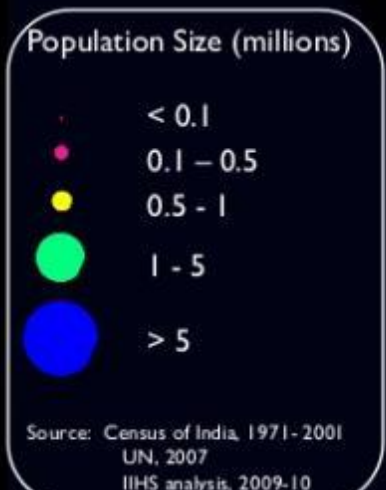
SUSTAINABLE TRANSPORT FOR SUSTAINABLE DEVELOPMENT



1991



Urban Population Growth



Large Urban Settlement Growth

2011

3 cities with a population > 10 m and 53 with > 1 m

833 m live in 0.64 m villages
377 m live in ~ 8,000 urban centres

Delhi (16.9)

Ahmedabad (5.7)

Mumbai (20)

Pune (5.0)

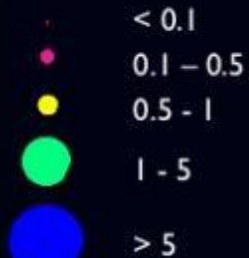
Bangalore (7.2)

Hyderabad (6.7)

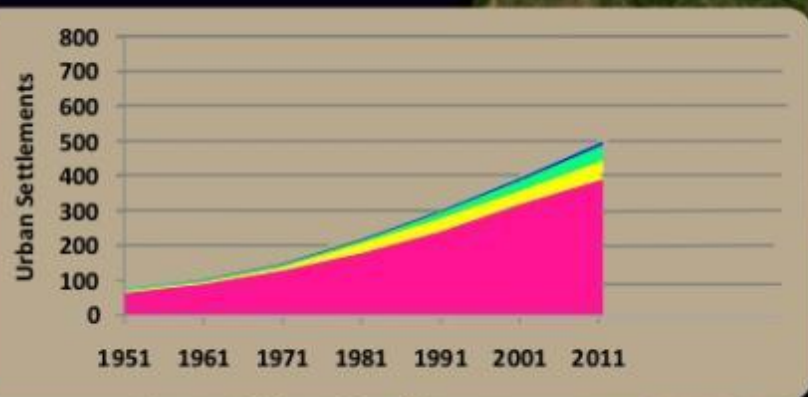
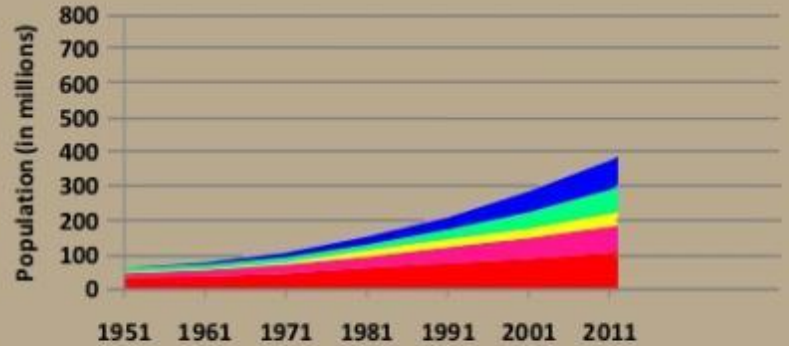
Kolkata (15.5)

Chennai (7.5)

Population Size (millions)

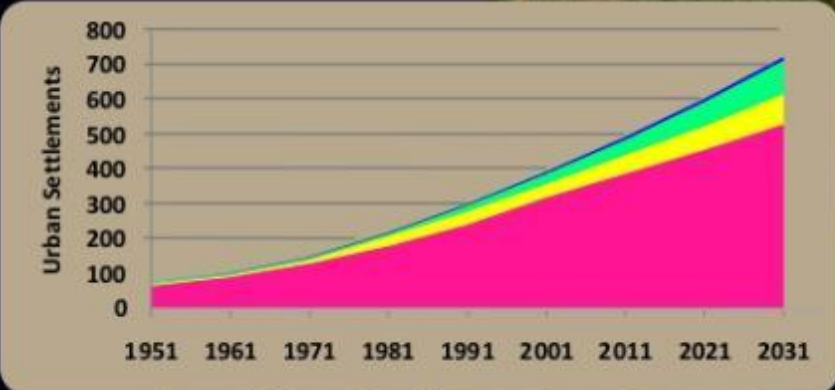
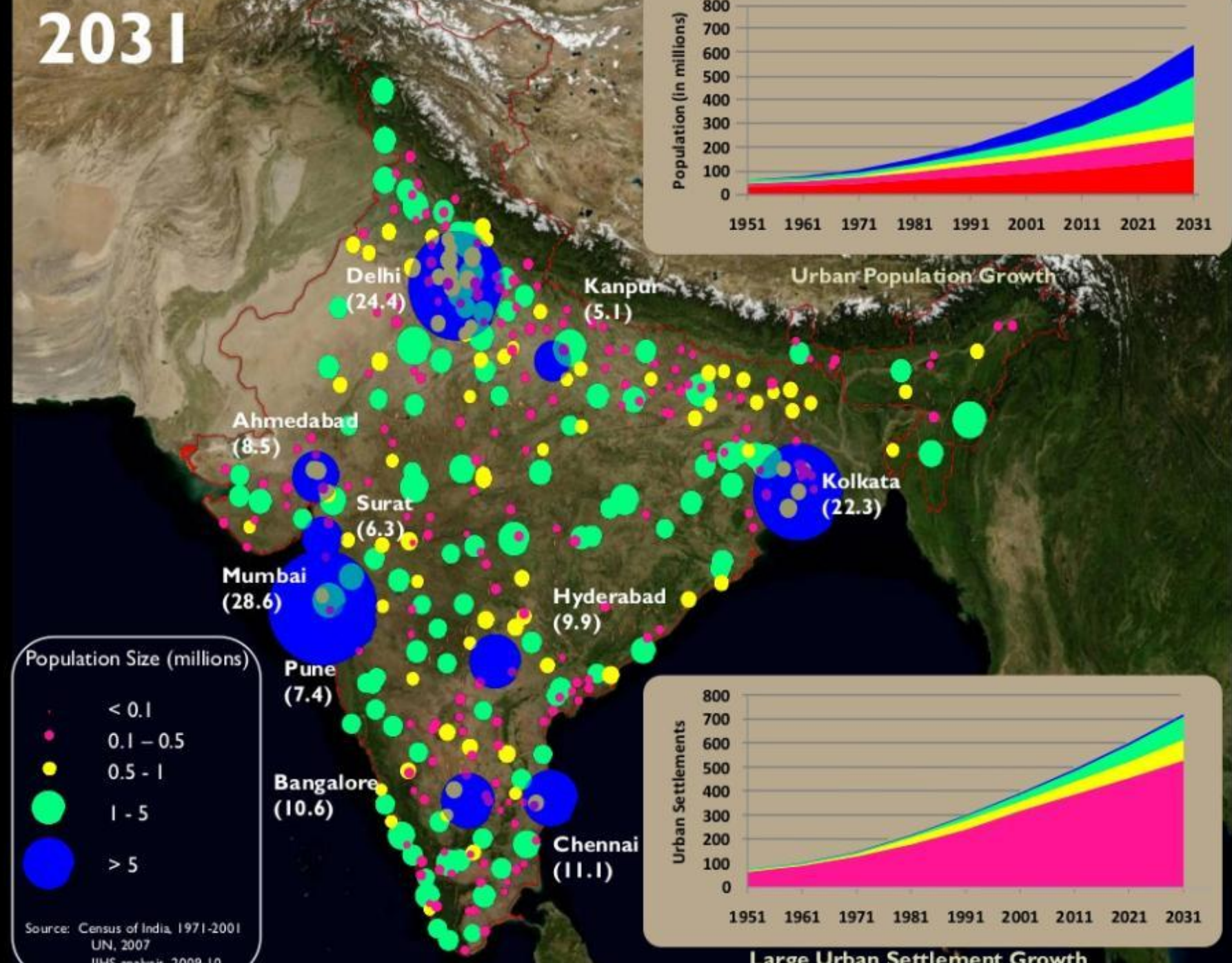
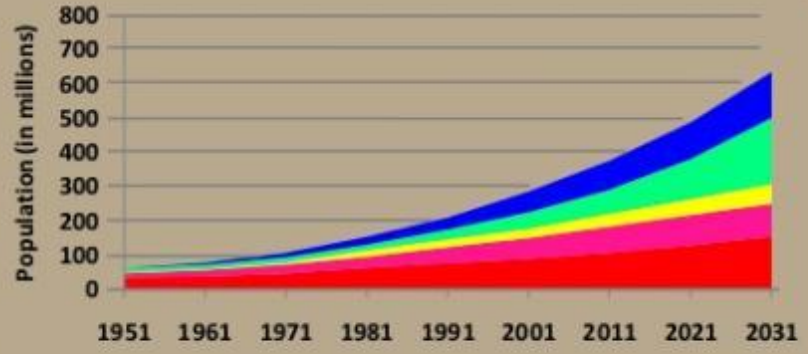


Source: Census of India, 1971-2001
UN, 2007
IIHS analysis, 2009-10

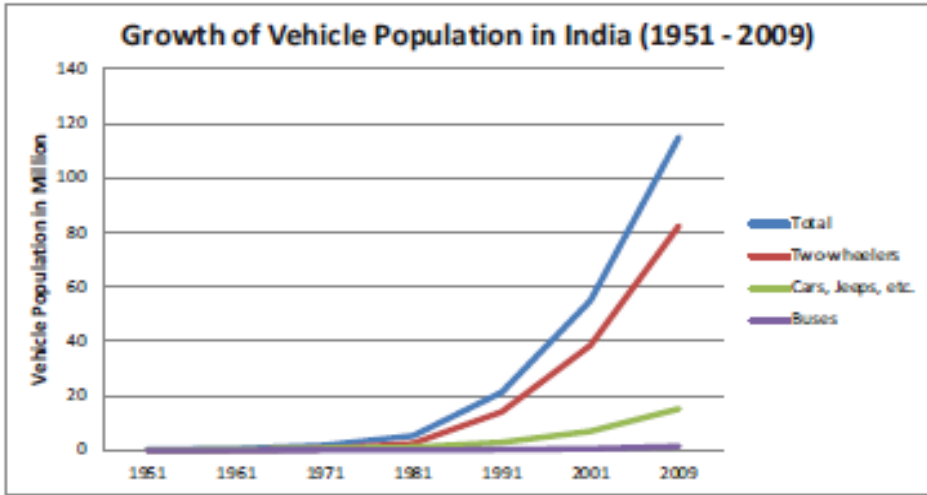
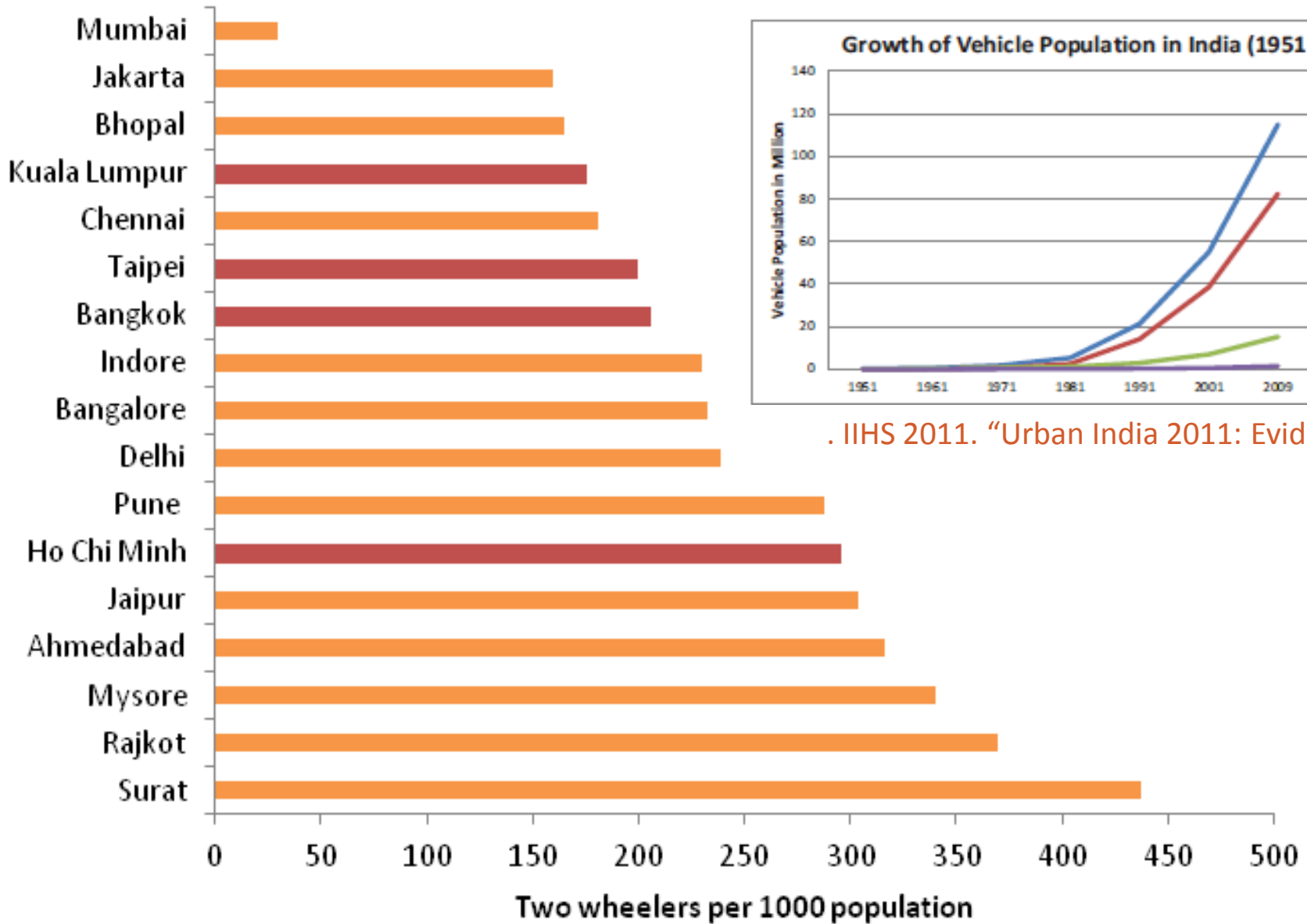


Large Urban Settlement

2031



Source: Census of India, 1971-2001
UN, 2007
IIHS analysis, 2009-10



. IHS 2011. "Urban India 2011: Evidence"

Pai, M. 2010. "India Urban Transport Indicators"

**Some alarming
facts about our
mobility**



ISSUES: ROAD SAFETY

AMBULANCE

140,000 deaths/year in India due to road traffic crashes

DL-1A-0531

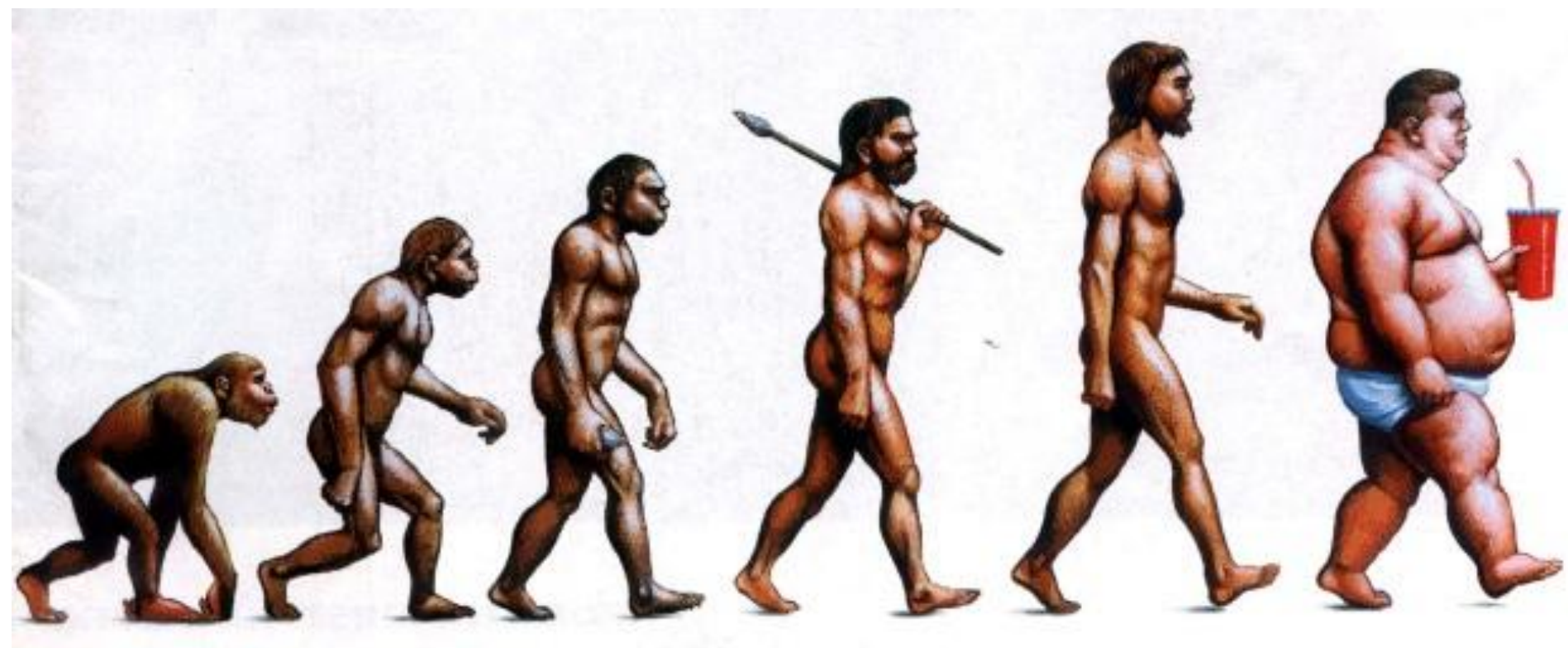
ISSUES: AIR POLLUTION

627,426 premature deaths/year in India due to air pollution



ISSUES: PHYSICAL INACTIVITY

➤ 436,122 premature deaths/year in India



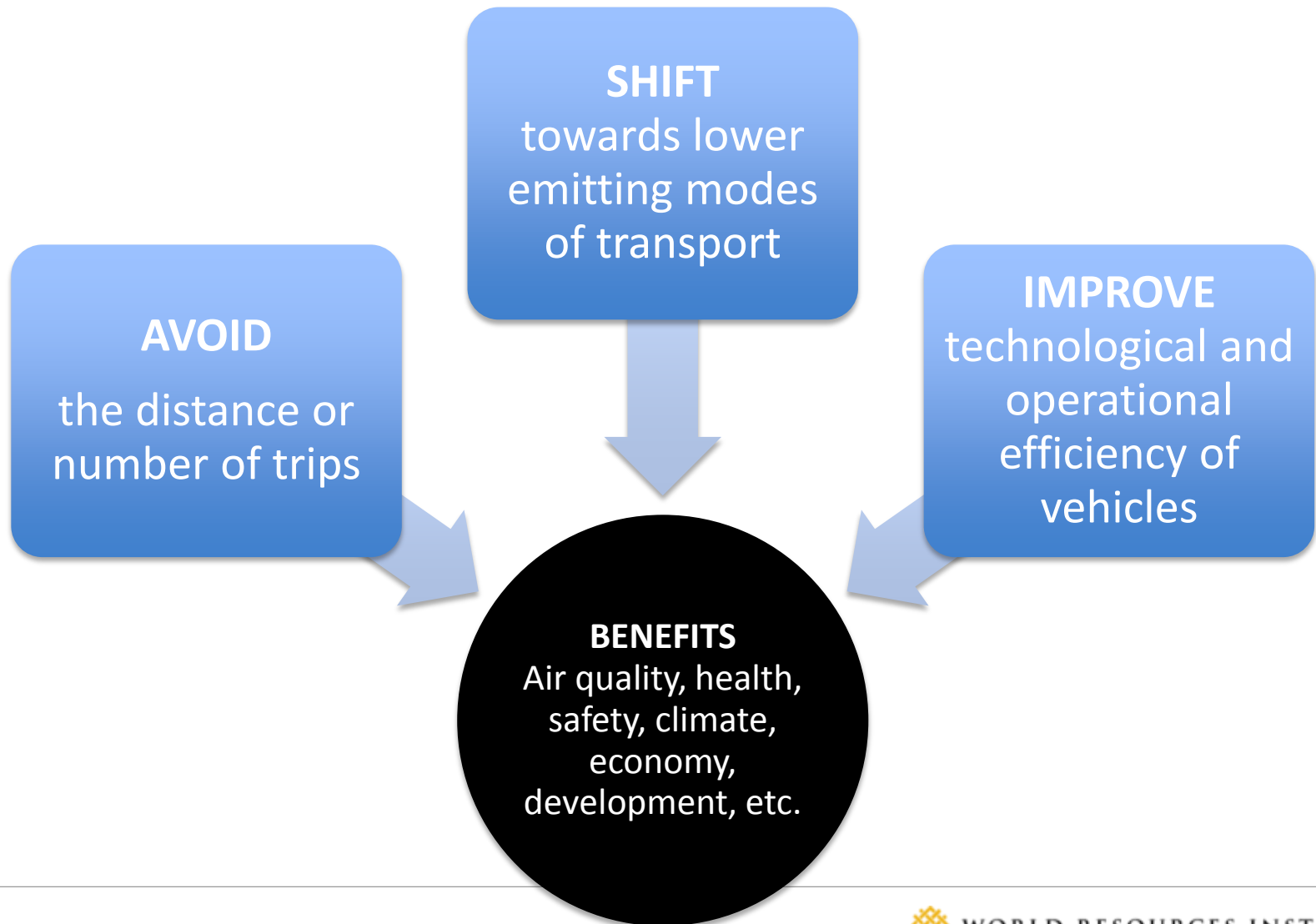
CLIMATE CHANGE



Smart Cities??



THE “AVOID-SHIFT-IMPROVE” STRATEGY



Opportunity is Biggest – Right Now

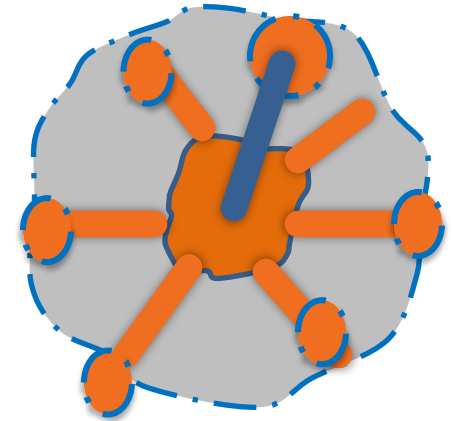
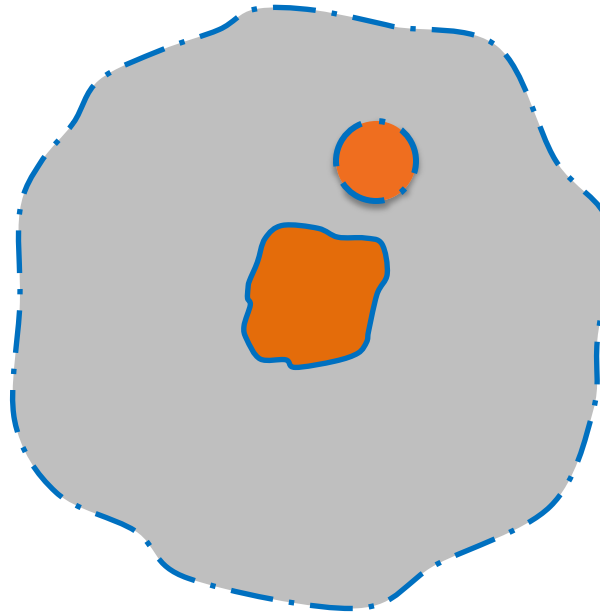
Today

2041

Automobility

Sustainable Transport

Ahmedabad



Population (millions)

5.4

13.2

13.2

Trips (millions/yr)

5.6

39.75

39.75

Area (Sq. Km.)

1330

6484

3242

Emissions
(million Tons CO2/yr)

0.33

12.32

1.97

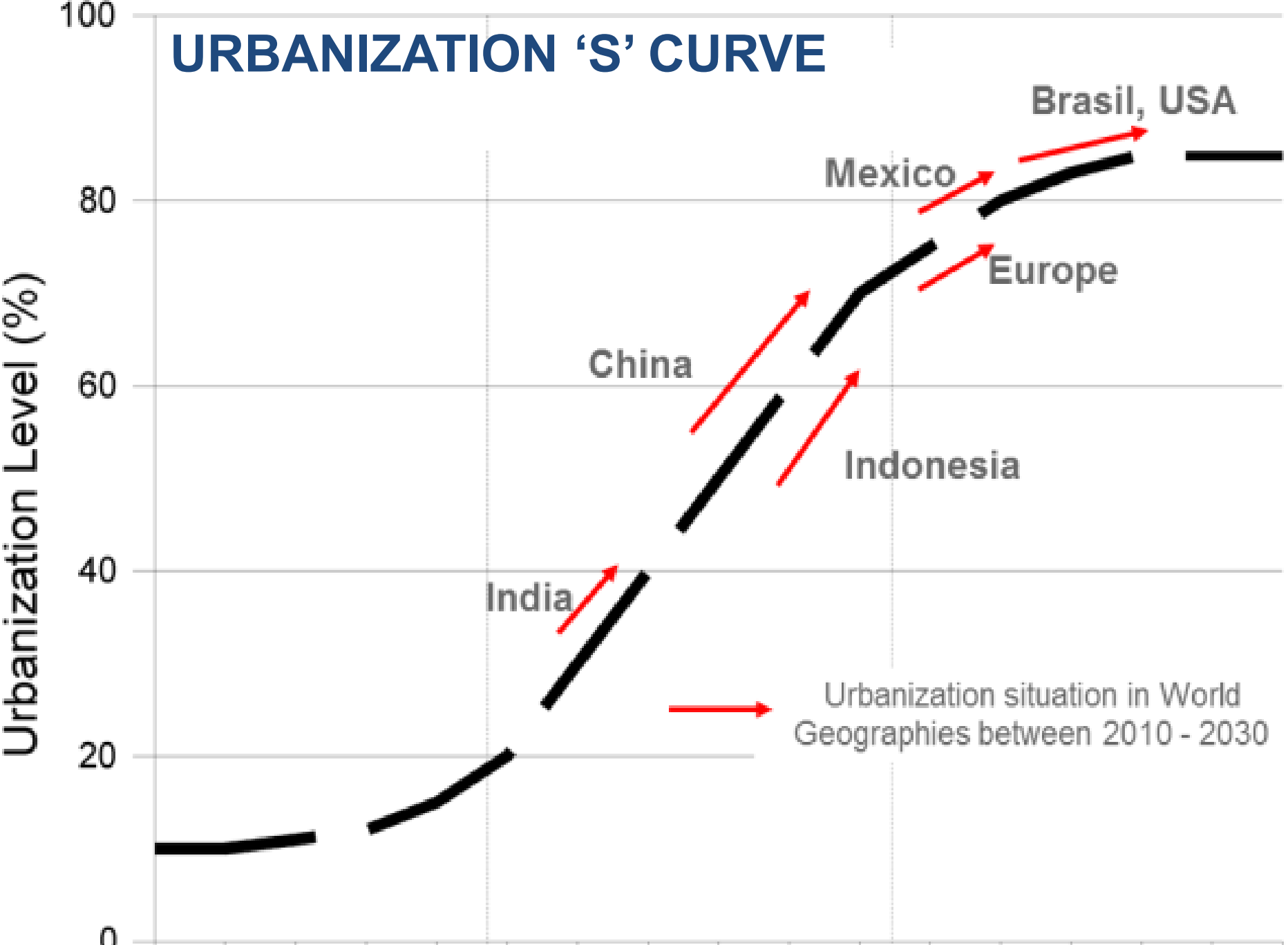
Traffic Fatalities
(per yr)

175

5,232

1,225

URBANIZATION 'S' CURVE



Urbanization situation in World Geographies between 2010 - 2030

Thank You

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