

# **TRANSPORT SYSTEMS FOR** **SLUM DWELLERS**

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**SPA DELHI**

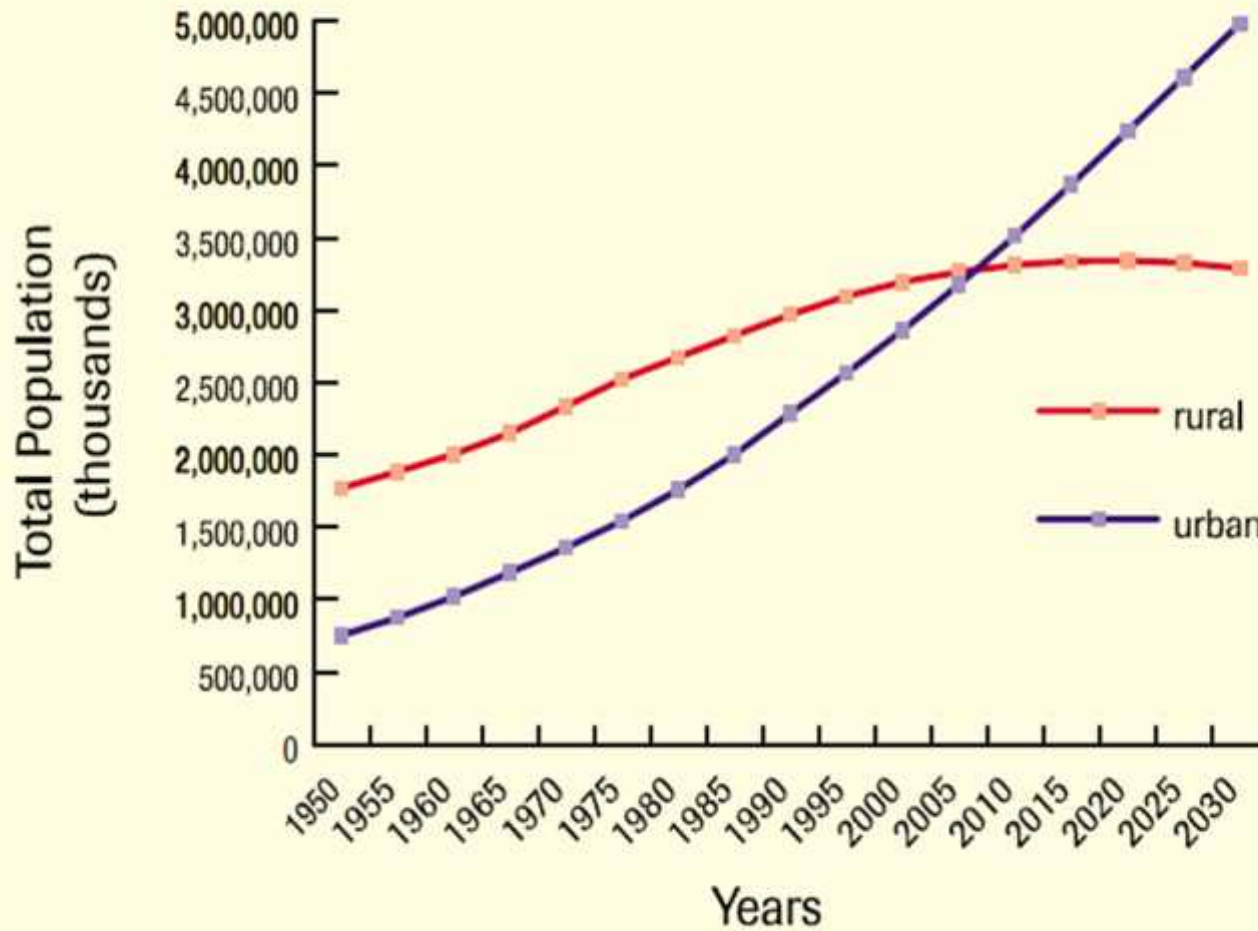
## INTRODUCTION

*“An estimated one-third of all urban residents live in informal settlements or slums—the vast majority in developing countries. Slum dwellers also often face more subtle disadvantages such as poor integration with the rest of the city and the social stigma attached to an inferior residential location.”*

- This study attempts to find out whether this occupational mobility is also observed in case of an urban slum dweller who migrates from his native place in search of earning opportunity, with a hope to improve his livelihood condition, and earn more than that he is earning at his native place.
- Physical immobility to move from dwelling units for work is also examined in this research paper. The study is based on Household survey conducted in five appropriately selected slums in Delhi, which represent the slum population of Delhi.

# World Scenario

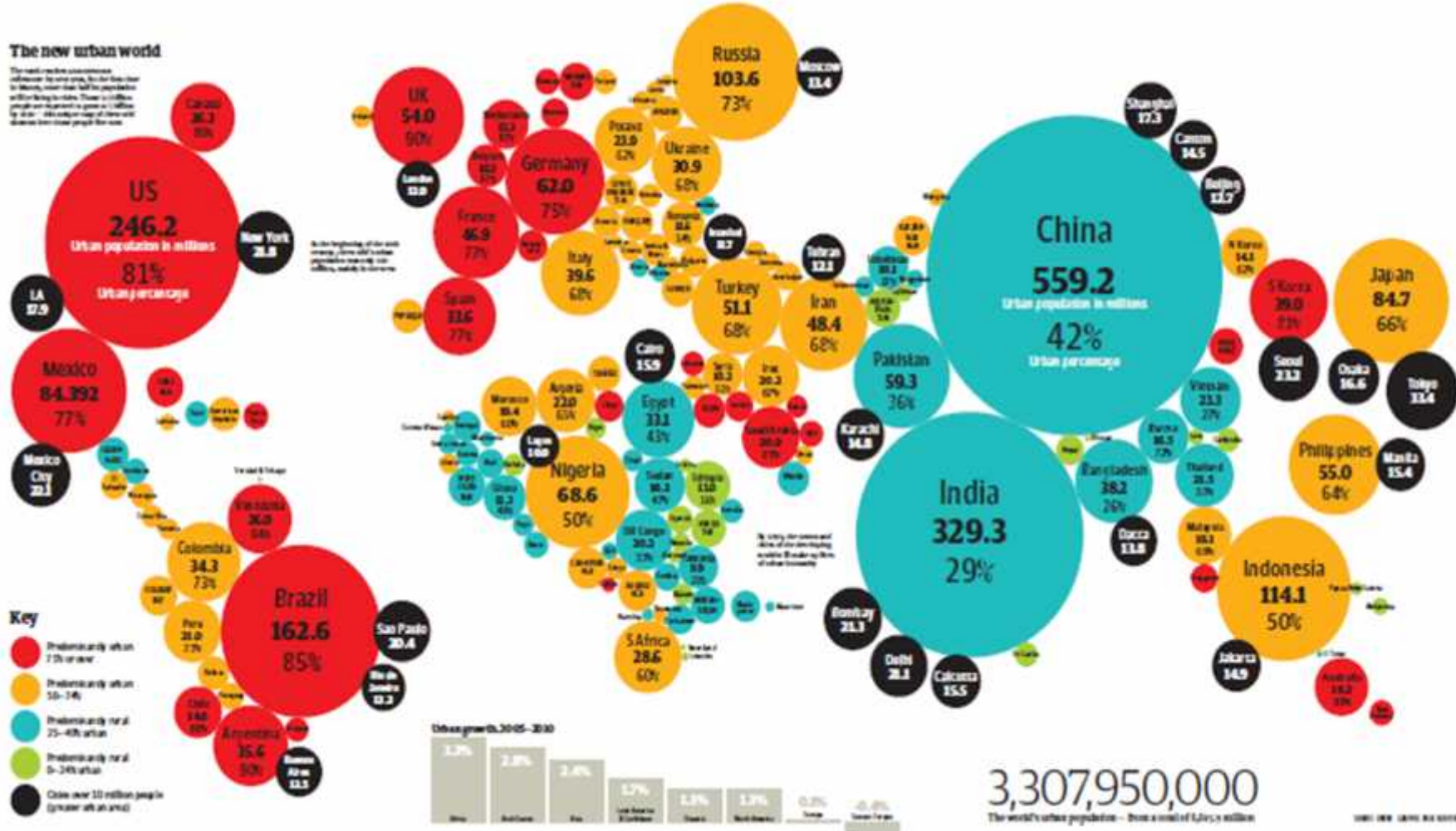
## WORLD POPULATION GROWTH 1950-2020



Source: World Urbanization Prospects 2001

### The new urban world

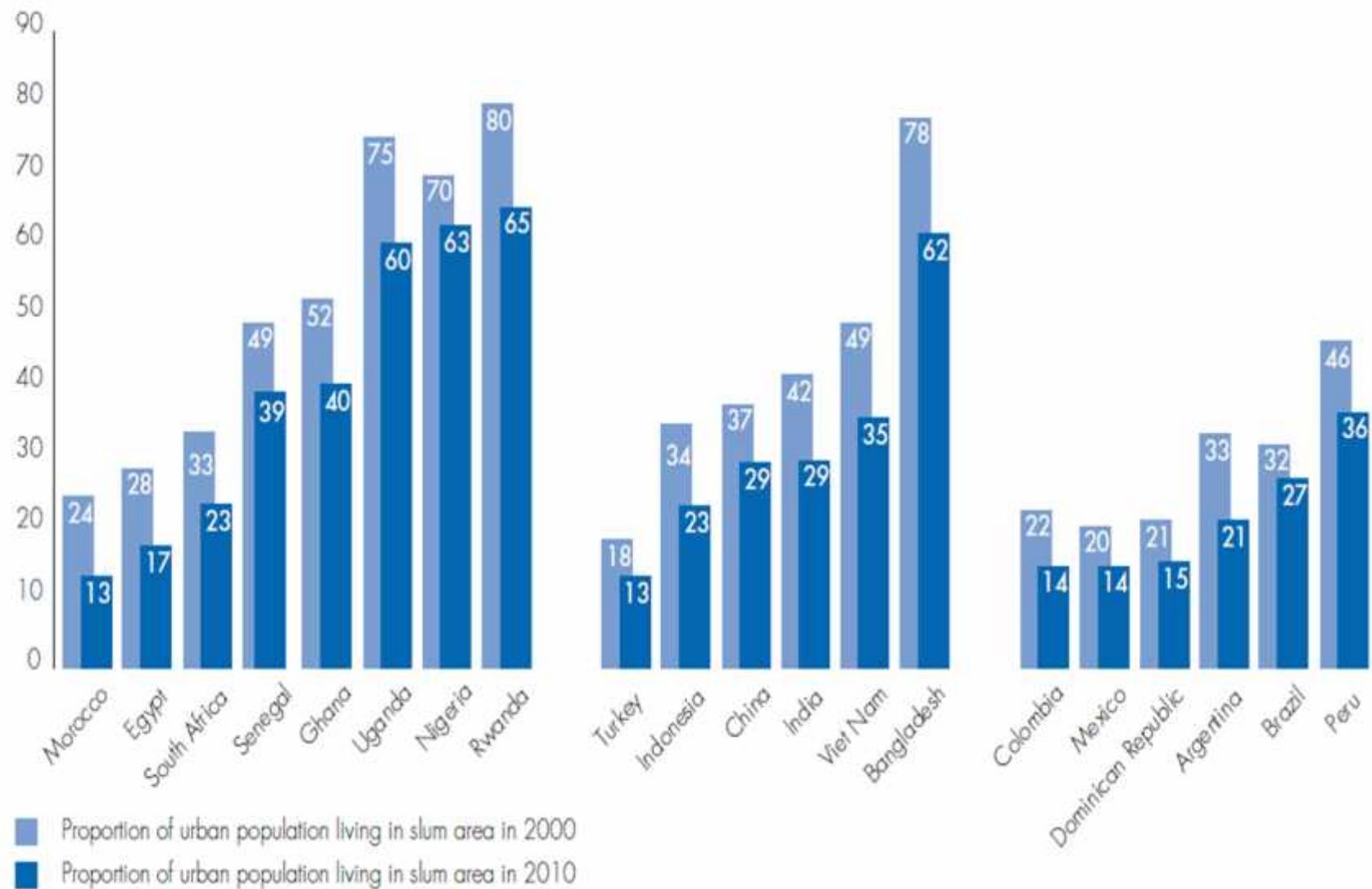
The world's urban population is growing faster than ever before. In 2008, 55% of the world's population lived in urban areas. This is a significant increase from 30% in 1950. The world's urban population is projected to reach 6.7 billion by 2030.



## BASIC NEEDS FULFILLED (SLUM DWELLERS WORLDWIDE)

Sub-region	Urban Population (%)	% of Urban Classified Slum	Population with Lack of Improved water (%)	Population with lack of improved water	Population with lack of improved sanitation (%)	Population with lack of improved sanitation
Northern Africa	52	28.2	3.8	2,87,633	19.12	14,47,250
Sub-Saharan Africa	34.6	71.9	18.1	41,82,041	56.7	1,31,00,648
Latin America and Caribbean	75.8	31.9	7.2	28,75,572	19.7	78,67,884
Eastern Asia	39.1	36.4	5.6	1,59,263	32.7	1,74,35,051
Eastern Asia (excluding China)	77.1	25.4	2.6	31,22,139	23.8	14,57,869
South-central Asia	30	58	6.9	20,28,540	34.3	1,55,20,201
South-eastern Asia	38.3	28	10	11,36,981	14.6	29,61,688
Western Asia	64.9	33.1	9.1	37,296	18.2	22,73,962
Oceania (excluding New Zealand and Australia)	26.7	24.1	18	1,68,15,285	9.5	19,684
<b>Total</b>	40.9	43	8.3			
<b>World</b>	47.7	31.6				

Proportion of urban population living in slums in selected top-performing countries, 2000 and 2010 (Percentage)



# Best Practices Worldwide



# VAN TRANSIT SYSTEM

**Place:** Bangkok, Thailand

**Organisation:** Bangkok Metropolitan Region (BMR)  
Authority

**Year of Establishment:** 2004

**Concept:**

- The Vans used to offer transportation service have a seating capacity of 12 persons.
- These vans operate on public streets as well as on mixed traffic expressways.

# CYCLE TAXI

**Place:** Malaba, Kenya ( Popular in Africa and Uganda)

**Year of Establishment:** 1960' s

The bicyclet axis (boda-bodas) are enhancing mobility in the East African countries by providing a low-cost transportation option to People

- Boda-bodas are faster and environment friendly
- Bicycle taxis have helped in enhancing the socio-economic condition of the boda-boda drivers



# ALWAR VAHINI

**Place:** Alwar, Rajasthan, India

**Organisation:** Regional Transport Office (RTO), Punjab National Bank, Urban Improvement Trust (UIT) Alwar, UIT Bhiwadi, and Deputy Registrar Co-operatives

**Year of Establishment:** 3<sup>rd</sup> December 2011

- Public transport service in the form of minivans with a seating capacity of 8 Persons
- Zero direct investment by the government in establishing the public transport system
- Replacement of older polluting fleet by new Euro IV compliant vehicles



# METRO-CABLE PROJECT IN CARACAS

Providing physical connectivity to ranchos/slums and improving local socio-economic prospects Metro-cable Project in Caracas

Place: Caracas, Venezuela

- Provision of public transport connectivity to ranchos  
Community involvement.
- Minimum demolition and rehabilitation during construction of public transport infrastructure.
- Development of social infrastructure around the stations.



# METROCABLE

World's first modern urban aerial cable-car public transport system connecting the low income settlements in Medellin

**Location:** Medellin, Colombia

- Pro-poor planning of public transport system
- Up gradation of social infrastructure along the public transport Corridors
- Community participation
- Increase in the ridership of subway





# BRT-Lite

A formal transport system catering to the urban poor and low income groups in Lagos

Place: Lagos, Nigeria

## **Key Features:**

- Africa' s first BRT system
- Cheaper to construct than conventional BRT system
- Cheaper fares than alternatives modes of travel



# CYCLING OUT OF POVERTY (COOP)

- An Africa-wide initiative to promote bicycling as a pro-poor mobility option

Location: Africa

- An Africa-wide initiative to promote bicycling as a pro-poor mobility option

Location: Africa

## **Key Points:**

- Promoting bicycle as a tool to move out of poverty
- Improving access to basic socio-economic services & facilities- work, school, healthcare centres, etc.
- Bicycle design modifications customized to meet business needs and local conditions



# Indian Scenario



**Table D: State-wise projected slum population from 2011 to 2017 (in millions)**

State	2011	2012	2013	2014	2015	2016	2017
Andaman & Nicobar Islands	0.034	0.035	0.037	0.038	0.040	0.041	0.043
Andhra Pradesh	8.188	8.273	8.357	8.440	8.522	8.603	8.681
Arunachal Pradesh	0.098	0.103	0.109	0.114	0.120	0.126	0.131
Assam	1.071	1.100	1.130	1.160	1.191	1.222	1.254
Bihar	1.684	1.707	1.730	1.753	1.774	1.796	1.817
Chandigarh	0.332	0.349	0.365	0.382	0.397	0.411	0.430
Chhattisgarh	2.112	2.169	2.228	2.288	2.348	2.410	2.471
Dadar & Nagar Haveli	0.026	0.029	0.032	0.034	0.037	0.040	0.043
Daman & Diu	0.009	0.009	0.009	0.009	0.009	0.010	0.010
Delhi	3.163	3.261	3.361	3.464	3.571	3.682	3.793
Goa	0.155	0.161	0.168	0.175	0.181	0.186	0.192
Gujarat	4.663	4.760	4.857	4.954	5.052	5.150	5.246
Haryana	3.288	3.391	3.495	3.600	3.707	3.815	3.924
Himachal Pradesh	0.087	0.089	0.091	0.093	0.095	0.097	0.099
Jammu & Kashmir	0.494	0.504	0.514	0.524	0.534	0.544	0.554

State	2011	2012	2013	2014	2015	2016	2017
Jharkhand	0.932	0.949	0.966	0.984	1.001	1.019	1.037
Karnataka	3.631	3.700	3.770	3.840	3.910	3.981	4.049
Kerala	0.533	0.536	0.539	0.541	0.544	0.546	0.548
Lakshadweep	0.002	0.002	0.001	0.001	0.001	0.001	0.001
Madhya Pradesh	6.393	6.523	6.654	6.786	6.918	7.051	7.181
Maharashtra	18.151	18.550	18.951	19.353	19.754	20.153	20.557
Manipur	0.075	0.076	0.077	0.077	0.078	0.078	0.079
Meghalaya	0.205	0.209	0.212	0.215	0.219	0.223	0.226
Mizoram	0.106	0.108	0.110	0.112	0.114	0.116	0.118
Nagaland	0.083	0.084	0.085	0.086	0.087	0.088	0.089
Orissa	1.736	1.771	1.805	1.841	1.876	1.912	1.948
Puducherry	0.137	0.143	0.150	0.156	0.162	0.167	0.174
Punjab	2.798	2.864	2.930	2.996	3.063	3.128	3.194
Rajasthan	3.826	3.895	3.962	4.030	4.095	4.160	4.225
Sikkim	0.013	0.014	0.014	0.015	0.015	0.015	0.016
Tamil Nadu	8.645	8.863	9.081	9.299	9.515	9.730	9.940
Tripura	0.131	0.134	0.137	0.140	0.143	0.146	0.149
Uttar Pradesh	10.878	11.127	11.379	11.631	11.885	12.140	12.394
Uttarakhand	0.826	0.846	0.866	0.887	0.907	0.927	0.948
West Bengal	8.547	8.641	8.733	8.825	8.919	9.014	9.106
India	93.056	94.978	96.908	98.845	100.787	102.729	104.668

Source: Table 2C from Gol. Committee on slum statistics/census. 2011-12





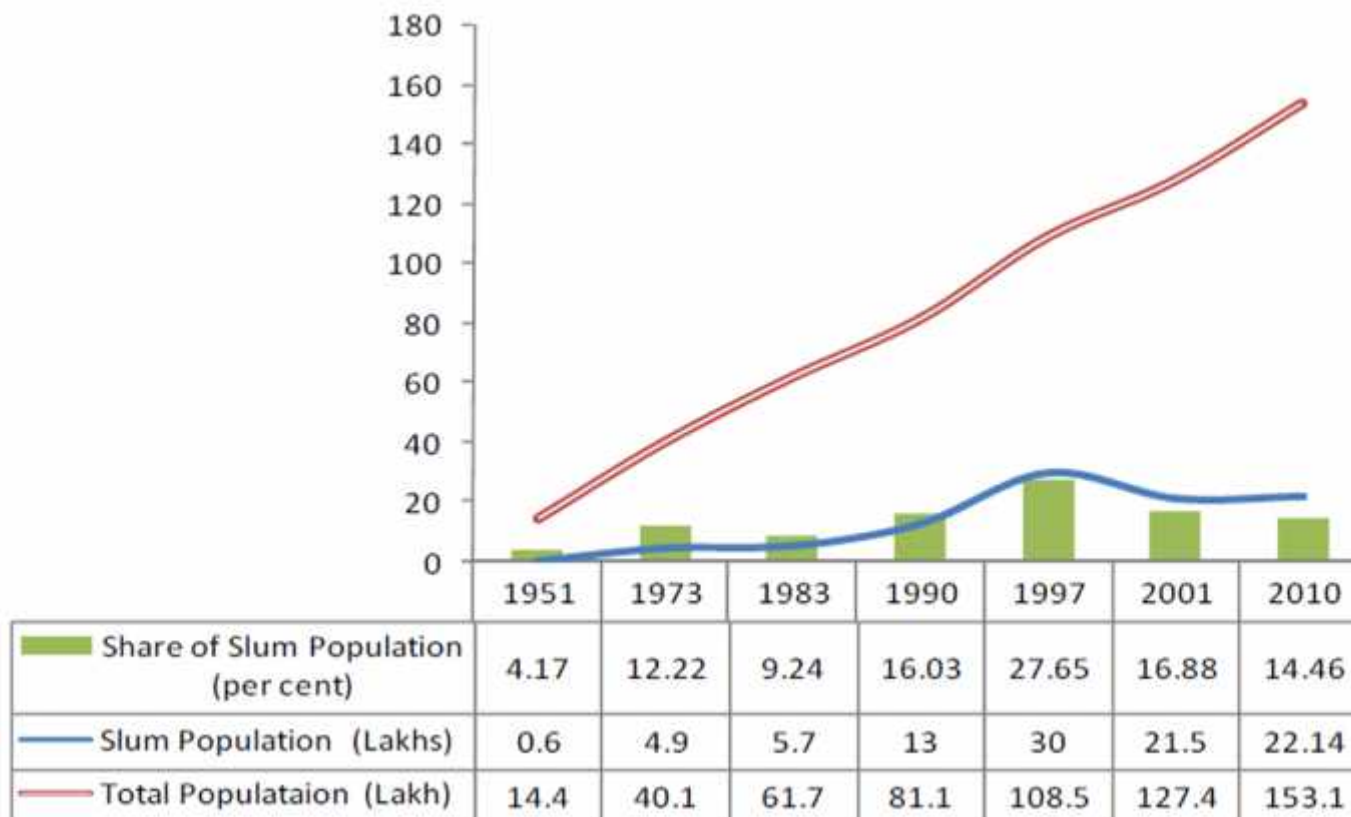
Slum Dwellers  
Characteristics in Delhi

Sl. No.1	Year	Jhuggi HHS (Lakh)	Slum Population (Lakh)	Total Population (lakh)	Share of Delhi Population living in slums (per cent)	Jhuggi HHS (CAGR)	Growth in Population of Delhi (CAGR)
1	1951	0.1	0.6	14.4	4.4		
2	1973	1.0	4.9	40.1	12.3	11.0	10.0
3	1983	1.1	5.7	61.7	9.2	1.0	1.5
4	1990	2.6	13.0	81.1	16.0	13.1	12.5
5	1997	6.0	30.0	108.5	27.6	12.7	12.7
6	2001	4.3	21.5	127.4	16.9	-8.0	-8.0
7	2010	4.4	21.6	153.1	14.1	0.1	0.3

- Number of slums increased steadily from 0.13 lakh in 1951 to 6 lakh in 1997.
- The share of slum population to total population of Delhi in 1951 was 4.60 per cent the same increased to 15.57 per cent in 2001 and declined to 14.27 per cent in 2010.

(Source:(1) Slum department, Municipal Corporation of Delhi (Figures from 1951 to 2001); (2) CGDR Survey 2010 & research)

## GRAPH DENOTING THE INCREASE IN SHARE OF SLUM POPULATION FROM 1951-2010



## DISTRIBUTION OF SLUMS AND SLUM POPULATION IN DELHI (2011)

Region	Slums		Slum HHs		Slum Population		Rank		
	Number	Share(per cent)	Number	Share(percent)	Number	Share (percent)	By Slums	By Slum HHs	By Slum Population
Central	61	12.8	23662	5.5	126742	5.9	5	5	5
East	87	18.2	85408	19.7	410065	19.0	3	3	3
North	68	14.3	79128	18.2	361585	16.7	4	4	4
South	128	26.8	140164	32.3	713119	33.0	2	1	1
West	133	27.9	105376	24.3	551090	25.5	1	2	2
<b>Total</b>	<b>477</b>	<b>100.0</b>	<b>433738</b>	<b>100.0</b>	<b>2162601</b>	<b>100.0</b>			

Source: CGDR Research

- The distribution of 477 identified Slum clusters by Zone is presented in Table.
- From the ranking of the slums by numbers, it is found that maximum number of Slums numbering 133 (27.88 per cent) is located in the western Zone
- Southern Zone has 128 slum clusters (26.83 per cent), 87 in East (18.24 per cent), 68 (14.26 per cent) in North and 61 (12.79) in Central Delhi.

## TYPOLOGY OF ROAD IN SLUMS

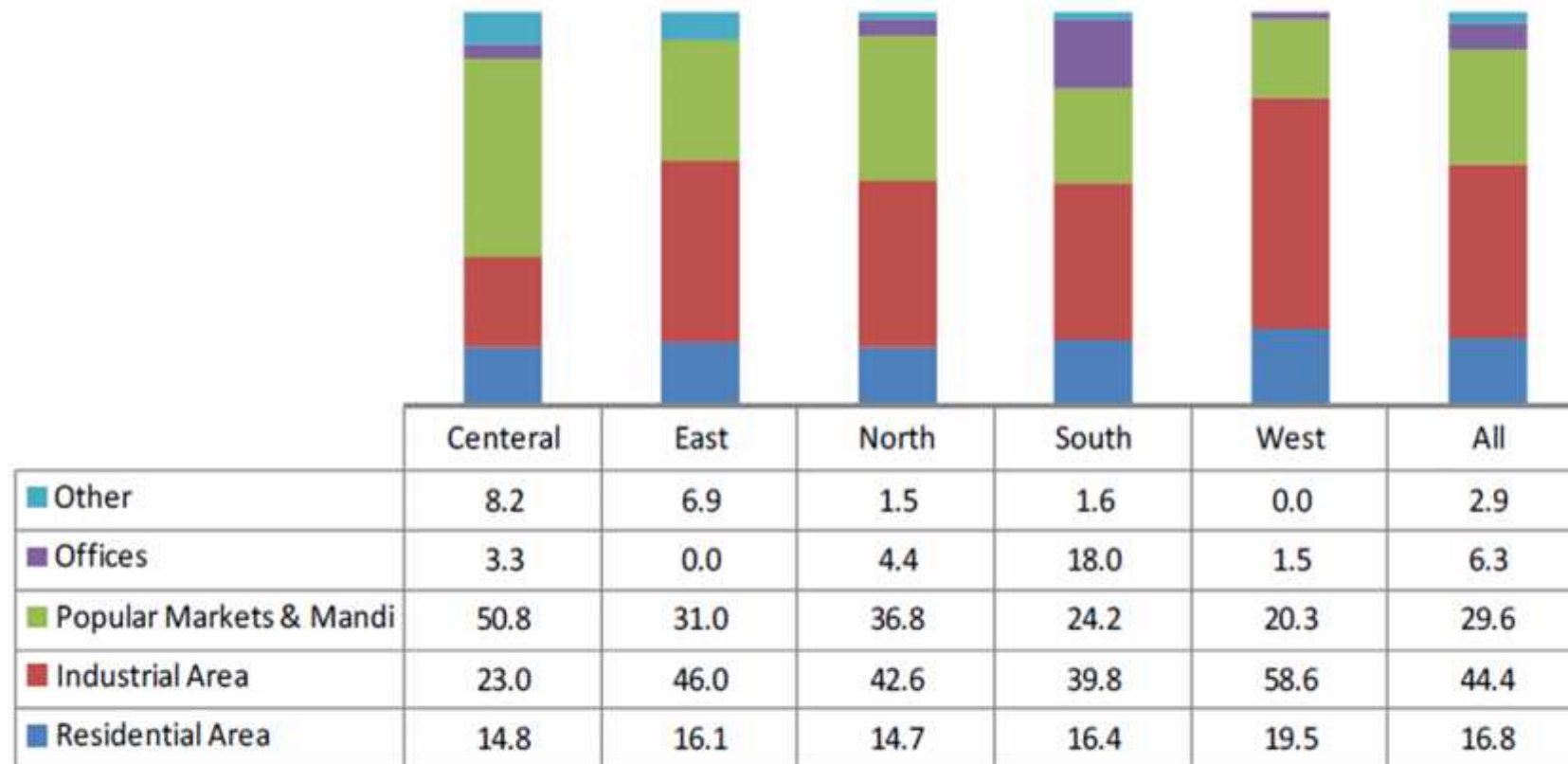
<b>Zone</b>	<b>Metal</b>	<b>Cement concrete</b>	<b>Kutchra</b>	<b>Both metal and cemented</b>	<b>Mixed</b>	<b>All Total</b>
<b>Central</b>	21.31	19.67	6.56	4.92	47.54	100.00
<b>East</b>	14.94	66.67	3.45	0.00	14.94	100.00
<b>North</b>	7.35	25.00	1.47	1.47	64.71	100.00
<b>South</b>	21.09	40.63	3.13	0.00	35.16	100.00
<b>West</b>	3.01	7.52	2.26	2.26	84.96	100.00
<b>Total</b>	13.00	31.24	3.14	1.47	51.15	100.00



**PERCENTAGE OF HOUSEHOLDS BY DISTANCE IN KM OF THE PLACE OF  
WORK OF HH HEAD**

<b>KM</b>	<b>Central</b>	<b>East</b>	<b>North</b>	<b>South</b>	<b>West</b>	<b>All</b>
<b>0-1</b>	8.1	11.4	14.7	8.1	12.7	11
<b>1-5</b>	61.7	42	48.7	45.1	44.3	45.8
<b>6-10</b>	1.1	2	3.8	2.4	2	2.4
<b>11-15</b>	0	3.1	0.9	1	0.2	1.2
<b>16-20</b>	0	1.4	0.3	0.7	o.s	0.7
<b>21-25</b>	0	0.3	0.4	0.4	0.5	0.4
<b>30-35</b>	0	0.3	0	0	0	0.1
<b>36-40</b>	0	0	0	0.1	0	0
<b>Not Fixed (labour/d river)</b>	29.1	39.5	31.2	42.2	39.9	38.5
<b>All</b>	100	100	100	100	100	100

## PRIMARY JOB MARKETS



Inference: In the northern part of Delhi industrial area and markets account to the larger percentage.

## DISTRIBUTION OF HOUSEHOLDS BY BROAD OCCUPATION GROUPS OF HOUSEHOLD HEAD

Rank	Occupation	Central	East	North	South	West	All	Cumulative Total
1	Labour	32.4	32.8	51.5	40.3	42.7	41.0	41.0
2	Private service	12.8	19.1	11.8	30.7	28.6	23.4	64.4
3	House Wife	17.9	10.4	5.2	3.0	3.2	5.9	70.3
4	Shop keeper	2.0	4.3	3.6	3.3	5.8	4.1	74.4
5	Tailor	1.9	4.1	1.9	2.3	1.2	2.3	76.7
6	Driver	1.5	2.5	2.6	2.7	1.3	2.2	78.9
7	Pensioner	4.1	2.5	2.8	1.1	1.5	2.0	80.9
8	Domestic Servant	5.2	2.9	2.1	0.8	1.1	1.8	82.6
9	Hawker	0.2	1.7	2.3	0.9	2.1	1.6	84.2
10	Petty Shop	0.6	0.8	0.9	1.6	2.3	1.4	85.6
11	Mason	0.4	0.8	4.4	0.5	0.8	1.3	86.9
12	Government Service	0.0	2.2	0.1	1.9	0.3	1.3	88.2
13	Rickshaw Puller	2.7	1.2	1.8	0.3	0.8	1.0	89.2
14	Security Guard	0.0	0.8	0.8	1.4	0.7	0.9	90.1
15	Dhobi	3.1	0.9	0.2	0.1	1.4	0.7	90.9
16	Salesman	0.0	2.8	0.1	0.5	0.0	0.7	91.6
17	Carpenter	0.5	0.4	0.5	1.0	0.7	0.7	92.3
18	Painter	0.9	0.6	0.8	0.5	0.5	0.6	92.9
19	Tea Shop	0.5	0.7	0.1	0.4	0.6	0.5	93.3
20	Sweeper	0.2	0.3	0.0	0.9	0.3	0.4	93.7
21	Rafi picker	0.0	0.2	0.1	1.0	0.1	0.4	94.1
22	Barber	0.2	0.3	0.3	0.3	0.5	0.4	94.5
23	Teacher	0.0	1.1	0.1	0.3	0.0	0.3	94.8
24	Electrician	0.2	0.6	0.5	0.2	0.1	0.3	95.1
25	Handicraft	2.4	0.0	0.1	0.0	0.0	0.2	95.3
	Other	5.9	4.3	2.7	2.5	1.4	2.8	98.1
	Unemployed	4.3	1.8	2.3	1.6	1.5	1.9	100

Source: CGDR Research

## **BACKGROUND**

Indian cities are characterized by rapid growth of Urban population and almost equal growth of Urban Slums. Mobility patterns of poor are different because of certain constraints. The paper attempts to analyze the trip patterns of urban poor in general and slum dwellers in specific.

## **ISSUES AND CHALLENGES**

- Limited monetary resources
- Less inclination towards New modes of Transportation
- Illiterate population, difficulty in understanding the systems, e.g. Metro
- Considerable Share of Slum population in Delhi

## SLUM DWELLERS MOBILITY PATTERN

To understand the mobility patterns and variation in patterns with change in location of Slum Dwellers in Delhi ,

surveys were conducted at five slum locations of Delhi.

All locations are within approx. 1 km from the metro stations. Given below is the list of the Slums covered:

- New Seelampur Colony
- Lal Bagh Colony, Azadpur
- Taimoor Nagar
- Indraprastha Colony
- Bhalaswa

## **Data Collection Methodology**

- Household Survey for trip information

### **Data Analysis: Data was analyzed under following heads**

#### Trips Behavior by Purpose

Percentage of trips for different purposes have been analyzed.

#### Trips by Modes of Travel

Analysis of different Modes used for trip making.

#### Distance by Modes of Travel

Distance travelled by different modes is analyzed.

#### Modes of Travel by Purpose

Under this, the modes used for different purposes is analyzed.

# SLUM LOCATIONS COVERED UNDER THE STUDY



- Area Surveyed: Bhalaswa (J J Colony)
- Nearest Metro Station: Jahangirpuri ( 1200 m)
- Nearest Bus Stop: 500m
- No. of Households Surveyed: 20



- Area Surveyed :Anna Nagar
- Nearest Metro Station: Indraprastha ( 600m)
- Nearest Bus Stop: 400m
- No. of Households Surveyed: 20



## Map Showing Survey Locations

- Area Surveyed: Seelampur Colony
- Nearest Metro Station: Seelampur ( 700m)
- Nearest Bus Stop: 150m
- No. of Households Surveyed: 20



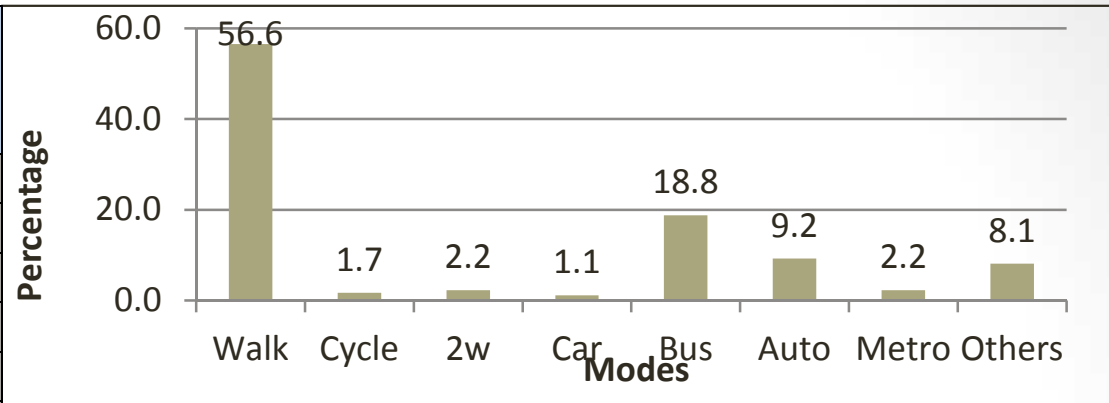
- Area Surveyed: Lal Bagh Colony
- Nearest Metro Station: Azadpur ( 800m)
- Nearest Bus Stop: 400m
- No. of Households Surveyed: 20



- Area Surveyed :Taimoor Nagar
- Nearest Metro Station: Kalkaji Mandir ( 2000m)
- Nearest Bus Stop: 500m
- No. of Households Surveyed: 20

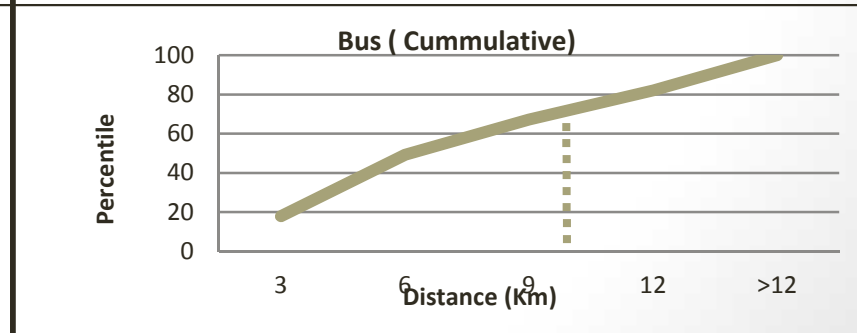
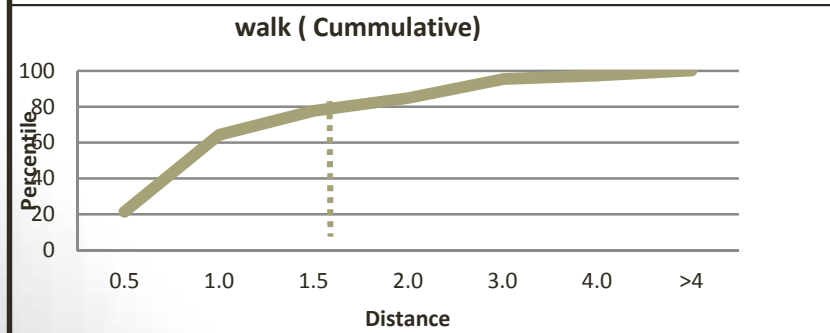
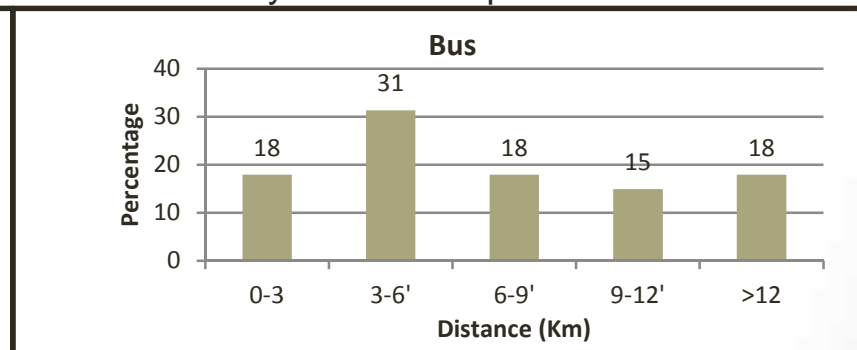
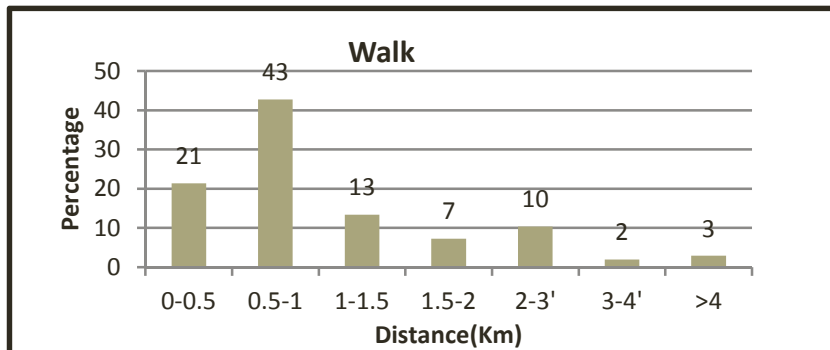
# TRIP CHARACTERISTICS BY MODES OF TRAVEL

	No. of Trips	Percentage	Total surveyed population	PCTR
Walk	202	56.58	231	0.87
Cycle	6	1.68	231	0.03
2w	8	2.24	231	0.03
Car	4	1.12	231	0.02
Bus	67	18.77	231	0.29
Auto	33	9.24	231	0.14
Metro	8	2.24	231	0.03
Others	29	8.12	231	0.13
	357	100	231	1.55



## Inferences:

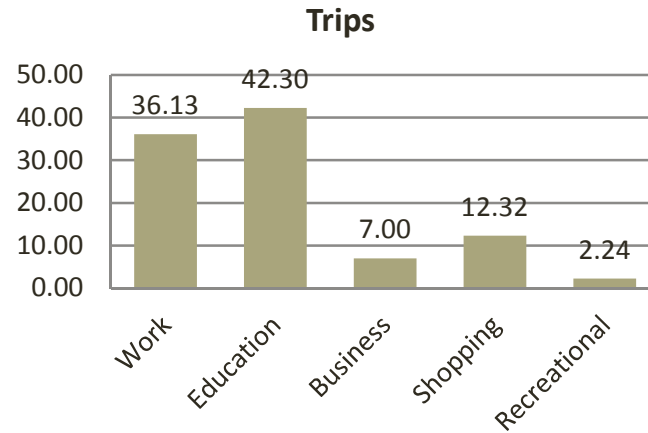
- Of the total trips made, 57 % are walk trips & 19% are bus trips
- 75 % walk trips are made within 1.2 km
- 75 % Bus Trips are made within 10 km
- Metro as mode is used only for 2.2 % trips





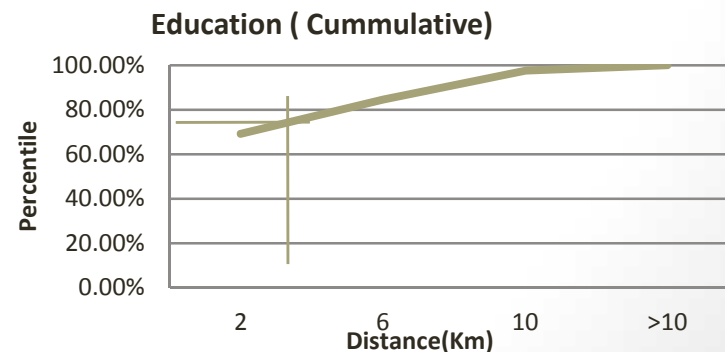
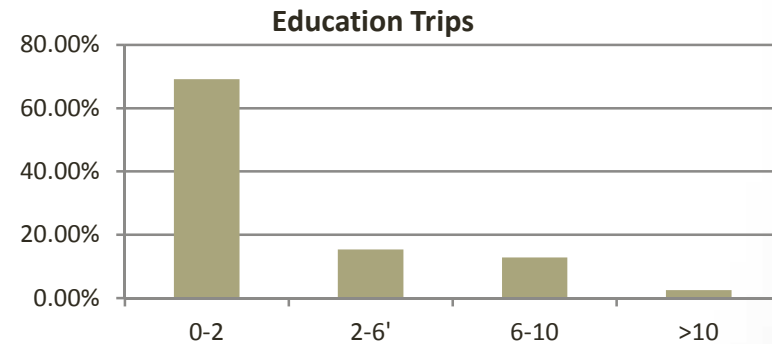
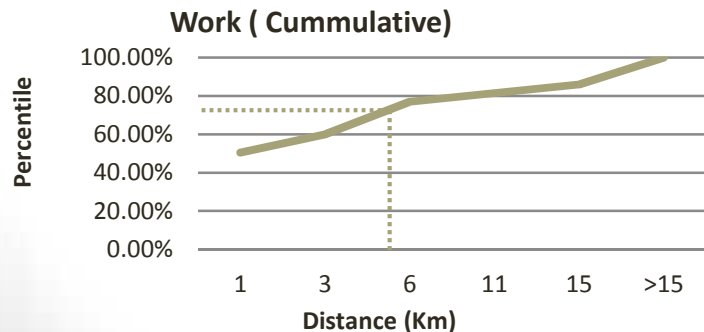
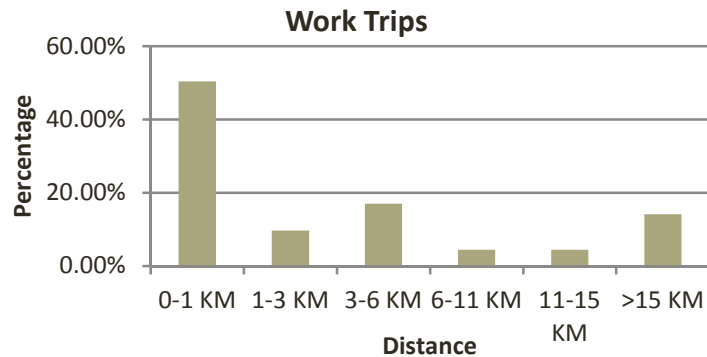
# TRIP CHARACTERISTICS BY PURPOSE OF TRAVEL

Purpose	Trips	Percentage
Work	129	36.13
Education	151	42.30
Business	25	7.00
Shopping	44	12.32
Recreational	8	2.24
<b>Total</b>	<b>357</b>	<b>100.00</b>



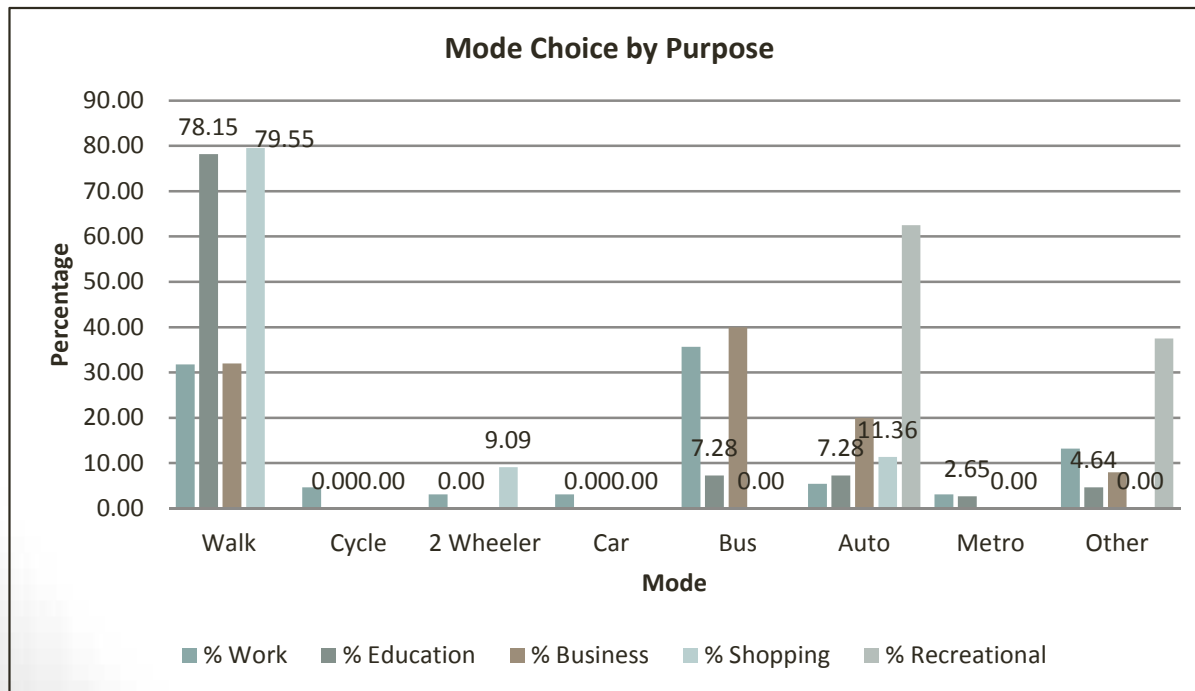
## Inferences:

- Of the total trips made, Education trips have the highest share of 42% followed by work trips(36%)
- 75 % work trips are made within 5.5 km
- 75 % of education trips are made within 3km range



# TRIP CHARACTERISTICS (MODE CHOICE BY PURPOSE OF TRAVEL)

	Walk	Cycle	2 Wheeler	Car	Bus	Auto	Metro	Other	Total
<b>Work</b>	41	6	4	4	46	7	4	17	129
<b>Percentage</b>	31.78	4.65	3.10	3.10	35.66	5.43	3.10	13.18	100.00
<b>Education</b>	118	0	0	0	11	11	4	7	151
<b>Percentage</b>	78.15	0.00	0.00	0.00	7.28	7.28	2.65	4.64	100.00
<b>Business</b>	8	0	0	0	10	5	0	2	25
<b>Percentage</b>	32.00	0.00	0.00	0.00	40.00	20.00	0.00	8.00	100.00
<b>Shopping</b>	35	0	4	0	0	5	0	0	44
<b>Percentage</b>	79.55	0.00	9.09	0.00	0.00	11.36	0.00	0.00	100.00
<b>Recreational</b>	0	0	0	0	0	5	0	3	8
<b>Percentage</b>	0	0	0	0	0	63	0	38	100.00
<b>Total</b>	202	6	8	4	67	33	8	29	357



## Inferences:

-As Analysed maximum no. of walk trips are made for Education(78%) and Shopping (80%)

- Bus as a mode is used for business and work trips

## TRIPS CHARACTERISTICS (BY GENDER)

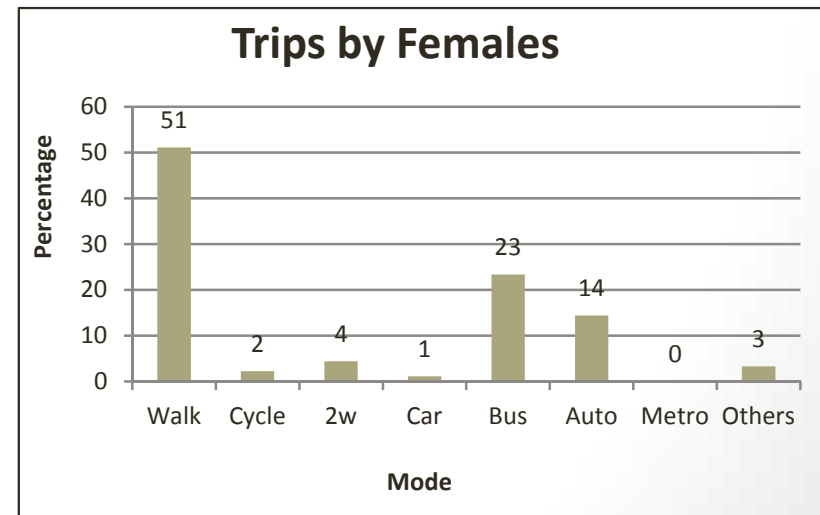
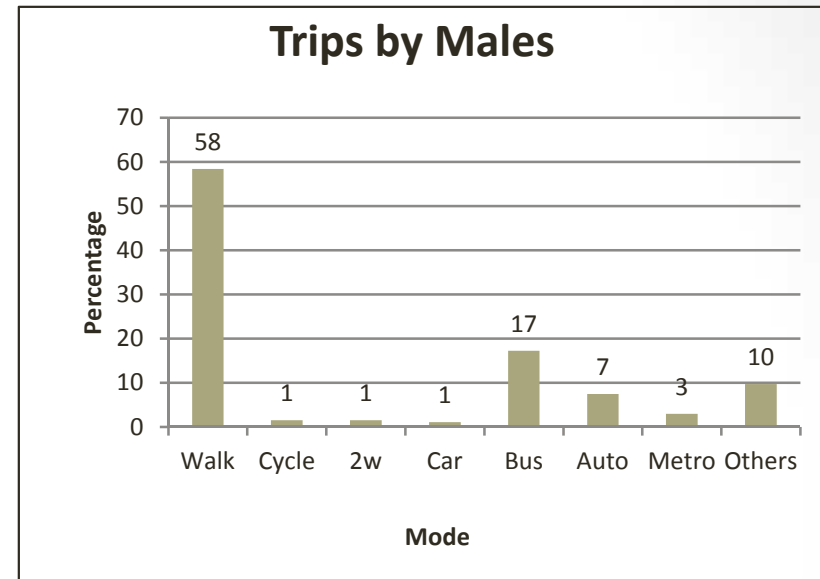
### Trips made by Males and Females by different modes

Gender	No. of Trips	Percentage
Male	267	74.79
Female	90	25.21
<b>Total</b>	<b>357</b>	<b>100.00</b>

- Of the total 357 Trips, 75 % are male trips and 25 % are female trips.

-Of the total trips made by male population, 58% are Walk Trips, 17% are Bus Trips and Metro as a mode constitutes for only 3 % of the trips.

- Of the total trips made by Female Population, 51% are Walk Trips, 23% are Bus Trips and Metro is not a preferred mode.



**SLUM DWELLERS**  
**TRANSPORT POLICY**

## URBAN TRANSPORT AND POVERTY REDUCTION

- Poor people's inability to access jobs and services is an important element of the social exclusion that defines urban poverty.
- Urban transport policy can attenuate this poverty, both by contributing to economic growth and by introducing a conscious poverty reduction focus to infrastructure investment, to public transport service planning, and to fare-subsidy and financing strategies.
- A rich agenda of urban transport policies that are both pro-growth and pro-poor, yet which are consistent with the fiscal capabilities of even the poorest countries.
- Deteriorating urban transport conditions have a particularly severe impact on poor people. Growing reliance on private vehicles has resulted in a substantial fall in the share of, and in some cases an absolute decline in the number of, trips made by urban public transport in many cities.

## **Moving towards a more poverty-focused transport policy would require the following:**

- Urban transport planning studies should take a more demand-oriented approach, recognizing the existence of distinct socio-economic communities already at the data collection, diagnostic and design stages;
- The importance of walking, other non-motorized transport activities and the special needs of the mobility impaired should be recognized both in infrastructure design and in traffic management;
- Design of public transport fare policies has to be based on more than the commonly used criterion of affordability; a nominally a pro-poor policy of charging low fares without an assured deficit finance mechanism has proved to leak benefits and lead to service deterioration;

- There should be increased use of targeting, whether group-oriented or location-oriented, both in service design and fare policies;
- Transport being only one of services essential for the welfare, fare policies in the transport sector have to be designed taking into consideration policies in other sectors;
- Uncontested monopoly in the supply of public transport services should be replaced by regulated competition; this is likely to decrease costs and increase supply to poor people;

- Policies for regulating the informal transport sector need to be framed with their impacts on poor people carefully taken into account, lest the poor be the losers in the anti-congestion drives;
- Efforts to secure modal integration need to be carefully managed to ensure that they do not increase the number of times poor people have to pay per trip, and that fares on the services on which they are particularly dependent do not increase.



### **POVERTY-FOCUSED URBAN TRANSPORT INTERVENTIONS: ROAD INFRASTRUCTURE**

<b>Specific Intervention</b>	<b>Nature Of Impact</b>	<b>Cost &amp; fiscal Impact</b>	<b>Implementation ease</b>
Maintaining public transport routes	Faster & less Expensive public transport	Moderate	Easy
Paving poor areas	Access for public transport	Moderate	Easy
Bicycle & Pedestrian tracks	Safer Trips ,encouraging NMT (non-motorized traffic)	Moderate	Moderate
Separation of NMT on existing roads	Safety; Speed for all modes	Low	Difficult

### **POVERTY-FOCUSED URBAN TRANSPORT INTERVENTIONS: RAIL INFRASTRUCTURE**

<b>Specific Intervention</b>	<b>Nature Of Impact</b>	<b>Cost &amp; fiscal Impact</b>	<b>Implementation ease</b>
Concessioning	Improved service to user' s : Fare effects uncertain	Cost saving	Moderate
Severance payments	Protects (poorer) Workers	Small	Moderate
Resettlement arrangements	Protects disturbed residents from consequence of developments	Medium	Difficult
Converting Sub-urban railways	Improves speed & frequency	Moderate	Moderate

Source:-CITIES ON THE MOVE: A WORLD BANK URBAN TRANSPORT STRATEGY REVIEW

### A POVERTY-FOCUSED AGENDA: PUBLIC TRANSPORT SERVICE PLANNING

<b>Specific Intervention</b>	<b>Nature Of Impact</b>	<b>Possible Cost &amp; fiscal Impact</b>	<b>Implementation ease</b>
Introduce Competition in public transport	Cost reduction service growth	Cost saving	Moderate
Public transport interchange	Faster safer trips	Medium	Moderate
Bus priorities	Faster , less expensive trips	Low	Difficult
Develop Informal sector	Lower cost service	None	Moderate

### POVERTY-FOCUSED URBAN TRANSPORT INTERVENTIONS: FINANCE STRATEGIES

<b>Specific Intervention</b>	<b>Nature Of Impact</b>	<b>Cost &amp; fiscal Impact</b>	<b>Implementation ease</b>
Subsidy Finance reform	Line agencies to finance exemptions , better focus of support	Uncertain	Moderate
Public transport fare integration	Enables use of faster Modes	Low	Moderate
Congestion pricing	Direct impact small, provides basis for public transport improvement	Generates revenue	Difficult

Source:-CITIES ON THE MOVE: A WORLD BANK URBAN TRANSPORT STRATEGY REVIEW

## CONCLUSION AND RECOMMENDATIONS BASED ON THE STUDY

- While rehabilitating the slum population, their mobility characteristics should be considered otherwise, they would have more transport expenditure and also loose the job opportunities.
- As observed from the characteristics, the education trips are considerable which is a healthy sign.
- However, the education quality should be improved.

-Despite being closer to the metro, they are not using metro

i) Complex System

ii) More dispersal cost

iii) Job search confined within a limited radii.

-For rehabilitated population, transport incentives need to be given.

-Equitable Transport Supply is to be provided to link them with the mainstream.

# PLANNING FOR ALL