



Safe Public Transport a means to Empower Women

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Background

- Limited travel choices increase the dependency of women on Public transport - 34% women in Delhi commute to work using buses as compared to 25% men. (Shah.S, 2017).
- 27 % working women and 13 % non-working women in Delhi see mobility and safety concerns as a major constraint to participating in the workforce. International Labor Organization (ILO), 2011
- Almost 45 % of molestation cases take place in public buses. Survey by Delhi Police, 2014.
- Travel patterns of women different to those of men
 - Trip chaining
 - Usually travel with dependents
 - Travel more during off peak hours
 - More concerned about cultural and societal norms

Safety in Public Transport



1. Behavioral Issues
2. Planning Issues
3. Infrastructure issues
4. Other issues

- Research conducted to understand safety perceptions of women in all 4 legs of the PT journey
- To Identify most unsafe part of women's transport journey.
- Assess impact of safe public transport on women's economic and social opportunities

Variables Studied

Around 27 parameters examined

- ***Journey to and from Destination To Stop-*** Distance to Stop, street lights, Lively Areas (people, shops, markets, residential area, etc.), clear Footpaths, Public conveniences (public toilets, drinking water, etc.), availability of IPT modes, visibility of Police in neighbourhood
- ***Waiting at the Stop-*** adequate lighting, Location, Design of stop, CCTV Cameras, Information, police visibility...
- ***Boarding and Alighting the Vehicle-*** Step Height, overcrowding entry exit gates, Buses do not stop at designated stops., information display on bus
- ***Experience inside the Vehicle:*** Rash Driving, Overcrowding, CCTV cameras, Emergency panic buttons, Women's Helpline no , Reserved seats for women, Visibility of Security Personnel/ Marshals in vehicles.

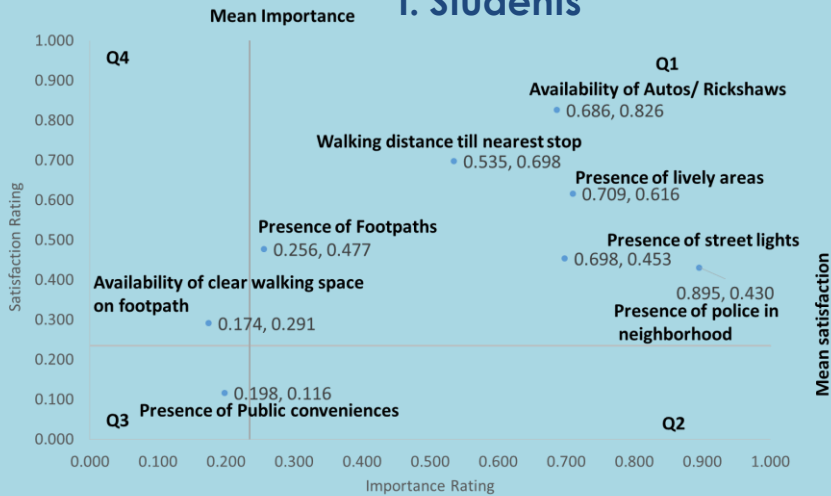
Study area and Surveys

- Study conducted in New Delhi covering areas of south and west Delhi
- User perception survey conducted for 247 females
 1. Students (86no- captured in educational campus),
 2. Working women (78 captured at work locations) and
 3. Non working women(83 captured in residences)
- FGD also conducted for working women from low income groups.

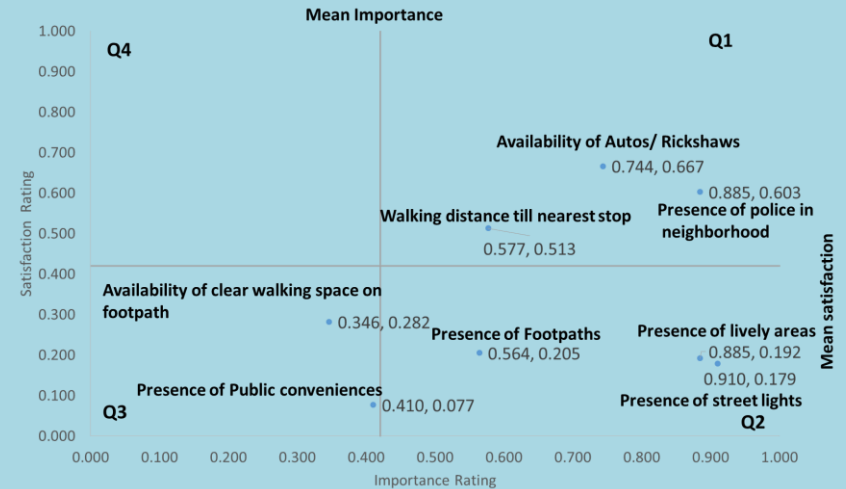
Results- Important satisfaction analysis

I. Journey to /from Stops to Destination

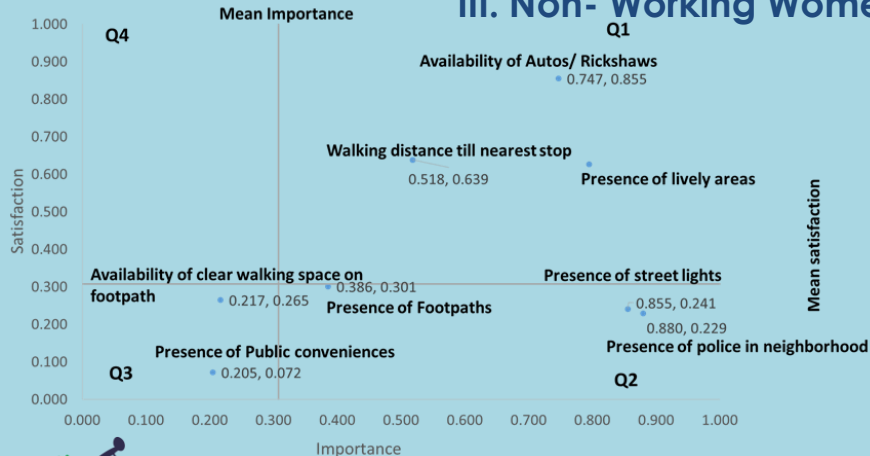
I. Students



II. Working Women



III. Non- Working Women



1. Infrastructure Issues

Presence of footpaths, streetlights are important.

2. Urban Planning Issues

Presence of lively areas is important.

3. Other Issues

Presence of police in Neighborhood is important

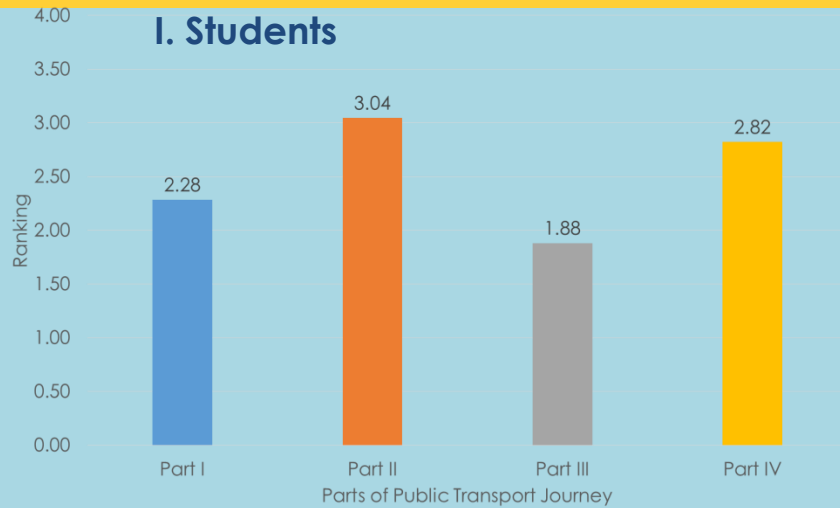
Overall Results

Factors which impact women's perception of safety significantly include:

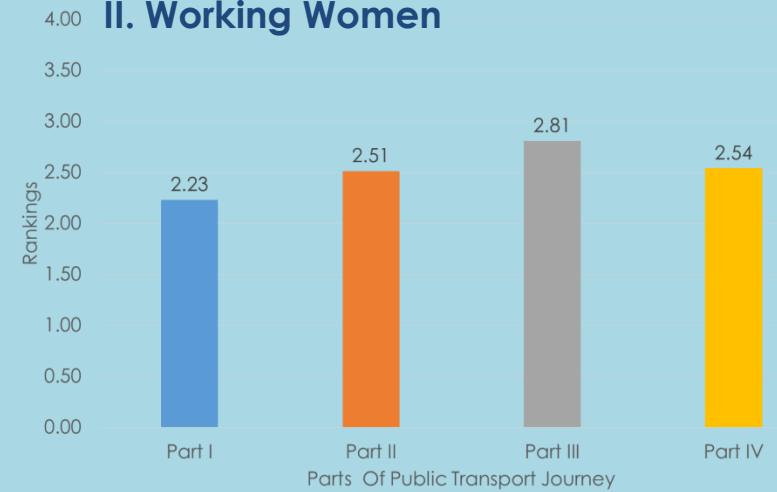
- I. Overcrowding at entry/ exit gates and inside the vehicle.
- II. Presence of CCTV cameras at the stops & inside the vehicle.
- III. Presence of street lights.
- IV. Presence of adequate lighting at the stops and inside the vehicle.
- V. Presence of walkable and clean footpaths.
- VI. Presence of lively areas (markets, shops, hawkers, people, etc.)
- VII. Presence of police/ security staff near the stops and inside the vehicle.

Difference in Perception of Safety within the groups

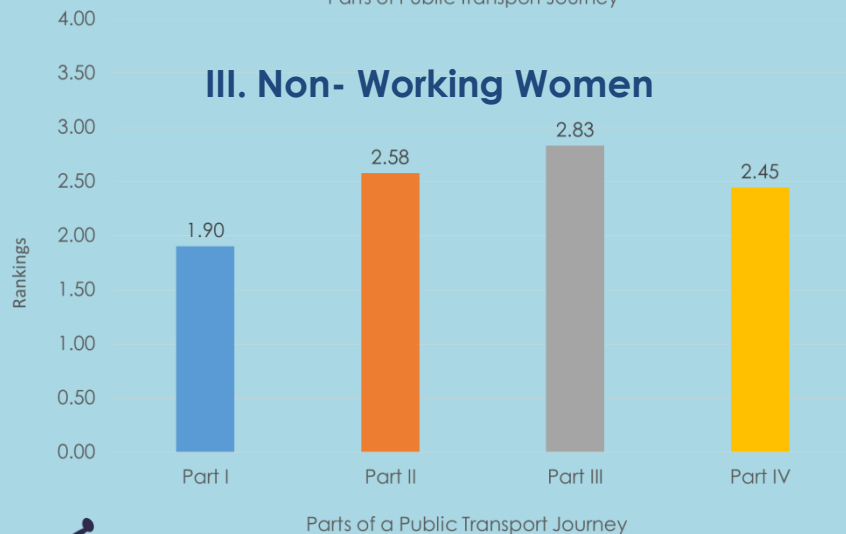
I. Students



II. Working Women



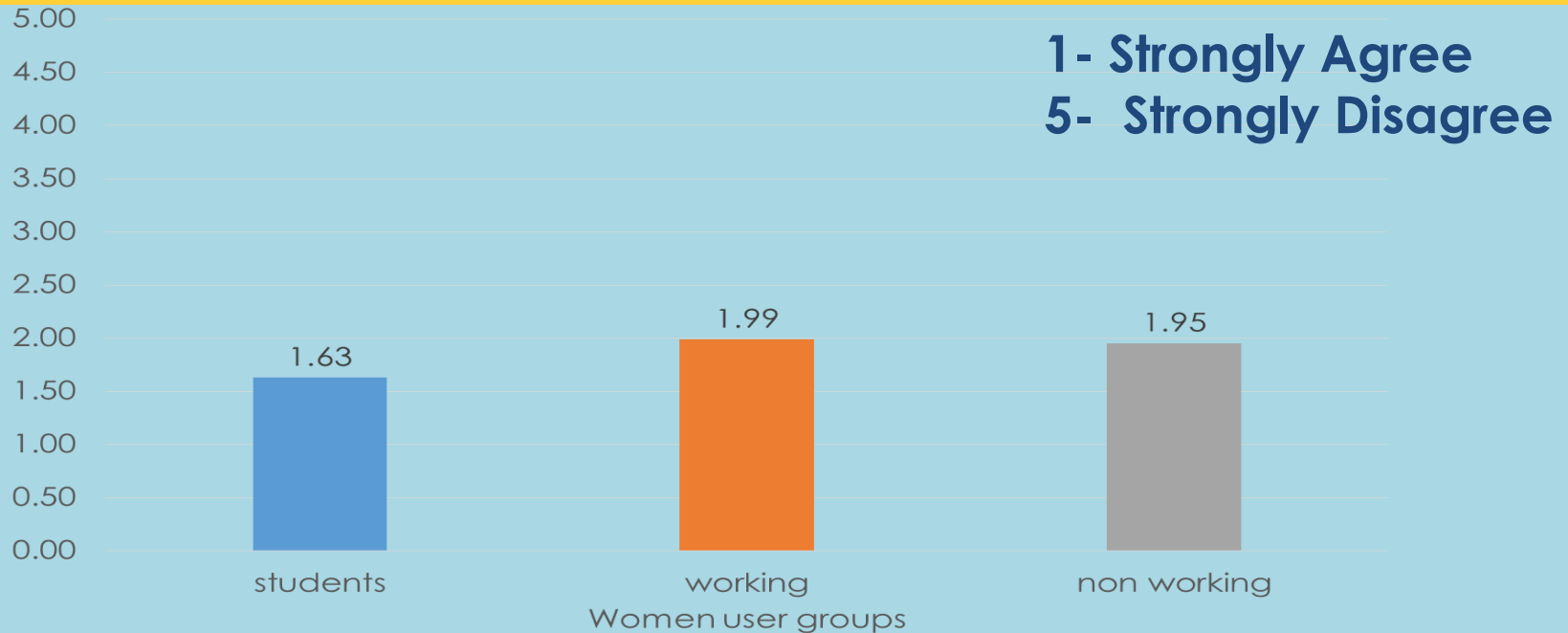
III. Non- Working Women



Results indicated

- waiting at the stops - most unsafe
- Journey to and from stop to destination- Safest..

Does lack of safety in Public transport restricts women's social and economic Mobility?

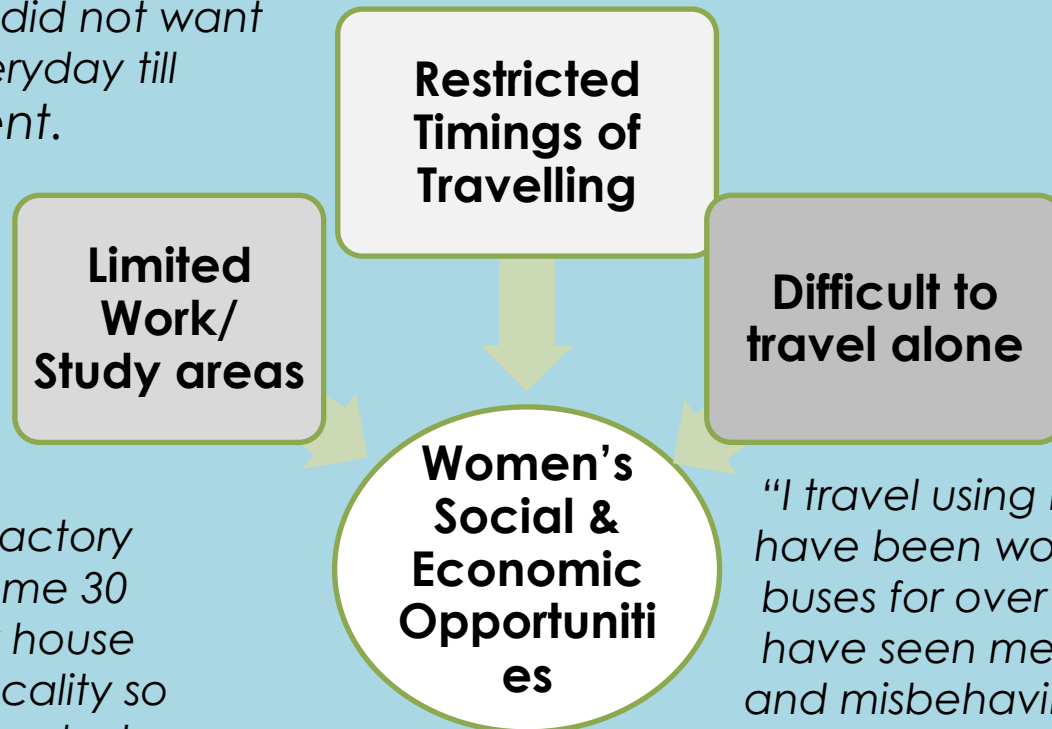


Results of ANOVA indicated

- significant difference in mean values of students as compared to working/ non –working women.
- No significant difference in means working & non –working women.

Impact of Public transport on women's social and economic opportunities

I took admission in a college near to my house. My parents did not want me to travel alone everyday till North Campus. Student.



"I Live nearby to the factory where I work. It takes me 30 minutes to walk till my house everyday. I know the locality so I feel safe here. My parents do not allow me to travel far for work." working woman

"I travel using bus everyday. I have been working and using buses for over 15 years now. I have seen men commenting and misbehaving with women. Nobody says anything to them. It is difficult to travel alone. I prefer getting back home before it gets dark." – working women

THANK YOU