

Project P1 - Wheelchair Users Survey

Part A: Initial Interview

A1. Please check the age category you fall into

- <25
 26-50
 51-75
 >75

A2. Please check one:

- Female
 Male

A3. What type of wheelchair do you typically use during motor vehicle transport?

- Manual
 Power
 Scooter

A4. What are the make, model and approximate year of your wheeled mobility device?

Make: _____ Model: _____ Year: _____

A5. How often do you travel in the following vehicles?

Check all that apply:

	City bus	Para transit	Personal van	Personal car
daily				
weekly				
monthly				
< once a month				

A6. Do you transfer from your wheelchair seat into a vehicle seat when transported?

Check all that apply:

	City bus	Para transit	Personal van	Personal car
Always transfer				
Sometimes transfer				
Never transfer				

A7. Is your wheelchair secured while you are transported?

Check all that apply:

	City bus	Para transit	Personal van	Personal car
WC always secured				
WC sometimes secured				
WC never secured				

A8. If your wheelchair is secured, what system is typically used?

- Belt-type system
 Pin-locking mechanism

Other type: (describe)_____

A9. Where does the securement system attach to your wheelchair? Check all that apply and demonstrate. (Note taker: assess and write down securement strategy)

- To the wheelchair frame
- To securement points mounted on my frame
- To my footrests
- To my wheels
- Other: _____

Note: wheelchair is commonly secured properly (circle) yes no

A10. When you travel do you use any form of seat belt?

Check all that apply:

	City bus	Para transit	Personal van	Personal car
Always use a seatbelt				
Sometimes use a seatbelt				
Never use a seatbelt				

The following section applies only to individuals that ride seated in a wheelchair on a city bus

A11. Do you typically need to ask the driver to help you secure your wheelchair?

- Yes, I need to ask for assistance
- No, driver typically asks if I need assistance
- I do not have my wheelchair secured
- I don't know

A12. If you use a seat belt in the city bus, what type of belt is it?

- It is anchored to the vehicle
- It is anchored to the securement system
- It is anchored to my wheelchair
- I do not where a seat belt
- I don't know

A13. Do you typically have to ask the driver to help you put on a safety belt?

- Yes, I need to ask for assistance because _____
- No, driver typically asks if I need assistance
- I don't know

A14. How often do you feel **comfortable** riding the bus while seated in your wheelchair?

- Always
- Most of the time
- Some of the time
- Rarely
- Never

A15. If you did not answer "always", why don't you feel comfortable?

A16. How often do you feel **safe** riding the bus while seated in your wheelchair?

- Always
- Most of the time
- Some of the time
- Rarely
- Never

A17. If you did not answer “always”, why don’t you feel safe? Or what makes you feel unsafe?

A18. What type of assistance do you typically need when riding the bus?

Check all that apply.

- Getting on/off the ramp/lift of a bus
- Maneuvering into/out of the wheelchair station
- Securing my wheelchair
- Putting on seat belts
- Signaling for my stop
- Transfer from/to wheelchair
- Other: _____

A19. Evaluate your transportation experience when using a city bus, by rating each of the following criteria on a scale from 1 to 10: (1= Very poor, 10= Excellent)

Criterion	Rating of my Typical Experience
My safety during stops	
My safety during turns	
My safety during vehicle accelerations	
My overall safety during the bus ride	
Quickness of use of the wheelchair station	
Independent use of the wheelchair station	
Comfort in the wheelchair station	
Ease of use of the wheelchair station	

A20. Describe the wheelchair passenger station you typically use on a bus:

A21. What do you like about this wheelchair passenger station?

A22. What do you dislike about the wheelchair passenger station you typically use?

A23. How would you improve the station?

Part B: In-Vehicle Post-Test

(Read script): You will use and evaluate three wheelchair securement systems in a city bus. You will be asked to enter the bus, maneuver into the station, and secure your wheelchair or have the driver secure your wheelchair. You will be asked to wear the safety belt that is mounted on the test wheelchair.. Each wheelchair station will be demonstrated to you and you will be able to try out the wheelchair station before we go for a ride. During and after the test ride, you will be asked several questions about the wheelchair station you just used. You will test ride and answer questions for each of the three wheelchair securement stations. While using each station, please think about your feeling of safety and comfort during the ride, and ease of use of each wheelchair station.

B1. What do you like about the wheelchair station?

4-Point Tiedown: _____

Auto Docking: _____

Rear Facing: _____

B2. What do you dislike about the wheelchair station?

4-Point Tiedown: _____

Auto Docking: _____

Rear Facing: _____

B3. Evaluate the wheelchair station you just used on each of the following criteria on a scale from 1 to 10: (1= Very poor, 10= Excellent)

Criterion	4-Point Tiedown	Auto Docking	Rear Facing
Safety during stops			
Safety during turns			
Safety during vehicle accelerations			
Overall safety during the ride			
Quick use			
Independent use			
Comfort			
Ease of use			

B4. How would you improve the wheelchair station?

4-Point Tiedown: _____

Auto Docking: _____

Rear Facing: _____

(Read script): Now you have used all three stations, please answer the following questions. Give a brief reason with each answer.

B5. Which station did you like best? _____

Explanation: _____

B6. Which station did you like least? _____

Explanation: _____

B7. Which station felt most safe during braking and turning? _____

Explanation: _____

B8. Which station felt least safe during braking and turning? _____

Explanation: _____

B9. Which station was easiest to use to secure your wheelchair? _____

Explanation: _____

B10. Which station was most difficult to use to secure your wheelchair?

Explanation: _____

B11. Which station did you feel most comfortable with? _____

Explanation: _____

B12. Which station did you feel least comfortable with? _____
Explanation: _____

B13. Which station took most time to get into? _____
Explanation: _____

B14. Which station took least time to get into? _____
Explanation: _____

B15. In which station did you feel most independent? _____
Explanation: _____

B16. In which station did you feel most dependent? _____
Explanation: _____

B17. If your favorite wheelchair station were available on the buses you travel on, would this increase your use of city buses for transportation?

- Yes
- No
- Maybe

Please explain your answer: _____

B18. If your favorite wheelchair station makes it safer and easier for wheelchair users to use the city bus, how much would you be willing to pay out of pocket to alter your wheelchair to fit the wheelchair station:

- Nothing
- <\$100
- \$100-250

>\$250

B19. Finally, you tried out all three systems to secure your wheelchair, can you think of any other features that none of these stations have and that you think may be useful?

B20. Do you have any other suggestions or comments about anything else?

B21. Based on this study we will be making design recommendations and changes to the three systems. Would you be willing to participate in a focus group on this topic so that you can give us input on the changes we made?

- Yes
- No

Thank you for your time.