

Group No.1, Faculty of Psychology, BNU



Contents

Part 1 Project Description

Part 2 Research Conclusion

Part 3 Research Methods

Part 4 Research Results

Part 5 Suggestions

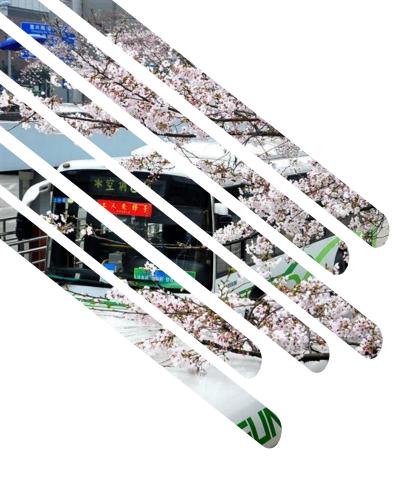
Project Description

Beijing Public Transport Company wants to improve the user experience of bus stations, please complete a research project.

The project includes:

- 1, context observation and research on the bus station user experience;
- 2, according to the collected data, conducted workflow analysis, to find out
- the "pain points" and "opportunity points";
- 3, proposed 1-2 possible UX solutions.





Research Conclusion

Users cover all ages and have diverse physical characteristics.

The current bus stop meets most passengers' needs, but the pain points include: narrow shades, small seating area, no real-time bus information, tortuous bus routes, small bus station sign, unreasonable placement and design of station information, no place for change, inconvenience for the special groups to get on and off, the routes crossing with auxiliary roads, crowded entrances and exits at platform (noisy and disordered environments).

The proposed changes are:

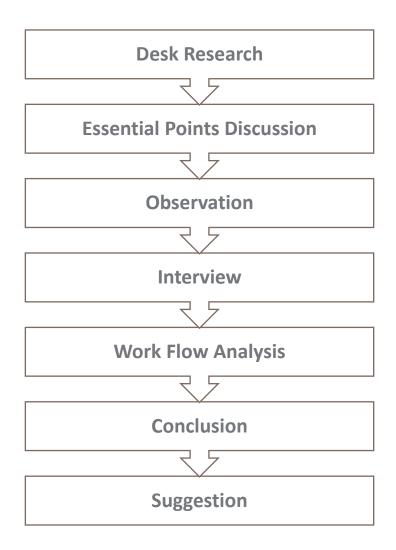
Provide real-time bus information broadcast, combine billboards and station plates to increase the seating area space, set up automatic currency change machine, build awning and electronic screen, set up automatic lifts to help special groups.



Research Methods

Research Methods





Essential Points Discussion

Environments

- General Stations (small, medium, large)
- Night Bus
- Bus Rapid Transit

Users

- Passengers(Divided groups, like elder, disabled)
- Volunteer guiders
- Conductor
- Bus driver

Tasks

- Waiting
- Getting on
- Getting off
- Finding ways
- Guiding
- Dropping by

Function(Data)

- Bus station sign
- Bus routes
- Mobile phones

The results of the discussion:

- 1, need to consider the environment of different stations;
- 2, bus station's main users are passengers, so research mainly focus on passenger and different needs of them.

Research Results





Context Research

Large station

Medium station

Small station







Observation

Place: Jishuitanqiaonan Station (Medium Station)

Period: 12:04 —— 12:14

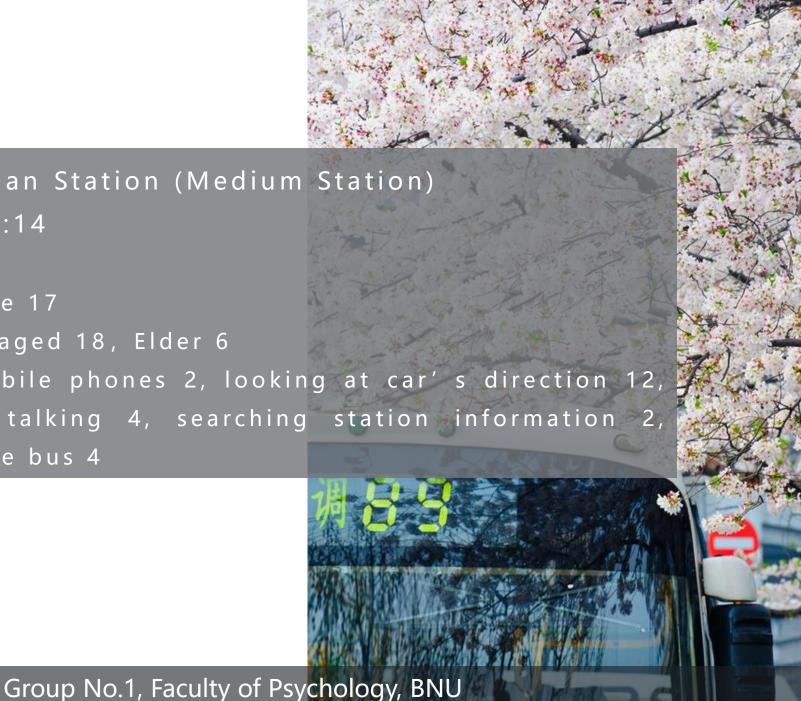
Gender: Male 8, Female 17

Age: Young 1, Middle aged 18, Elder 6

Activities: Playing mobile phones 2, looking at car's direction 12,

taking luggage 1, talking 4, searching station information 2,

running to get on the bus 4







Observation

Users

Data

Environments



Behaviors



Interview

Place: Jishuitanqiaonan Station
Elder 2 Male
Elder 1 Female
Middle Aged 1 Female
Young 2 Male

Place: Deshengmenxi Station Old Man 1 Female Middle Aged 1 Pregnant female Middle Aged 1 Male Young 1 Female Participants (10)

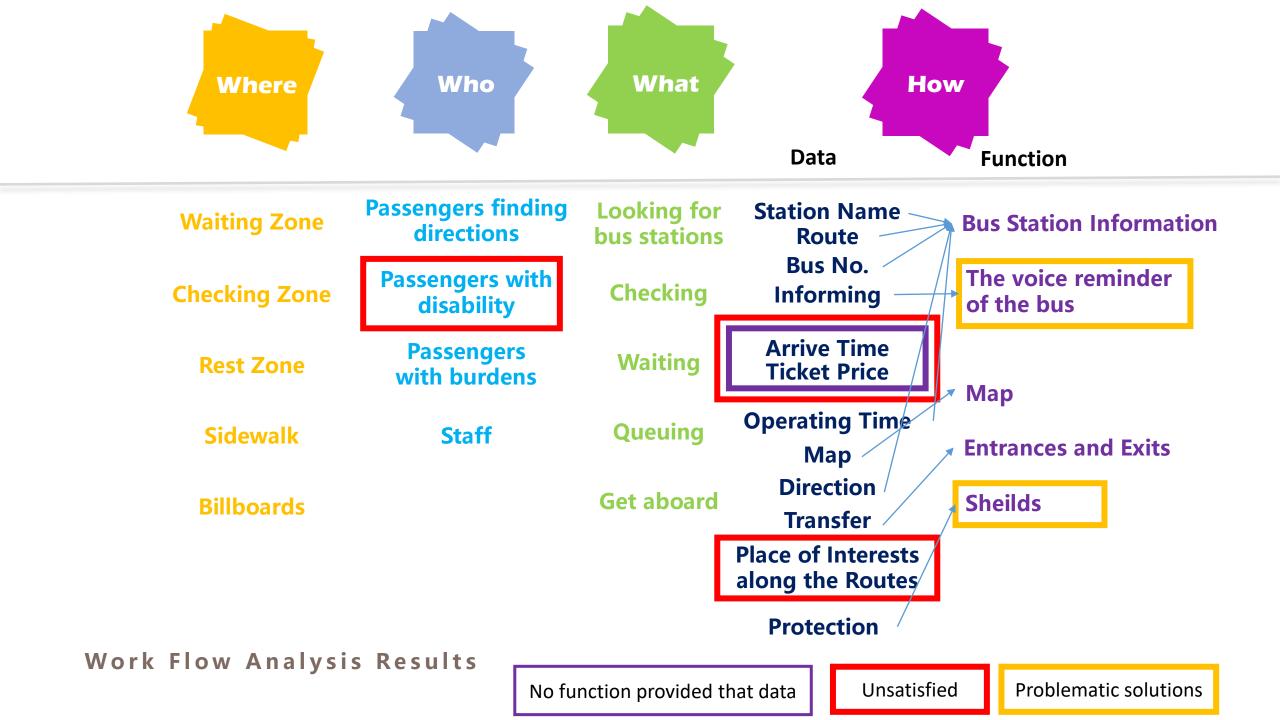


Interview

Feedback:

- Shades are too narrow
- Passengers cannot know when the bus will come
- The bus stop is too remote, and the route to the bus is tortuous
- The seating area is too small to have enough seats
- The bus stop sign is too small and needs to get close to search and check information

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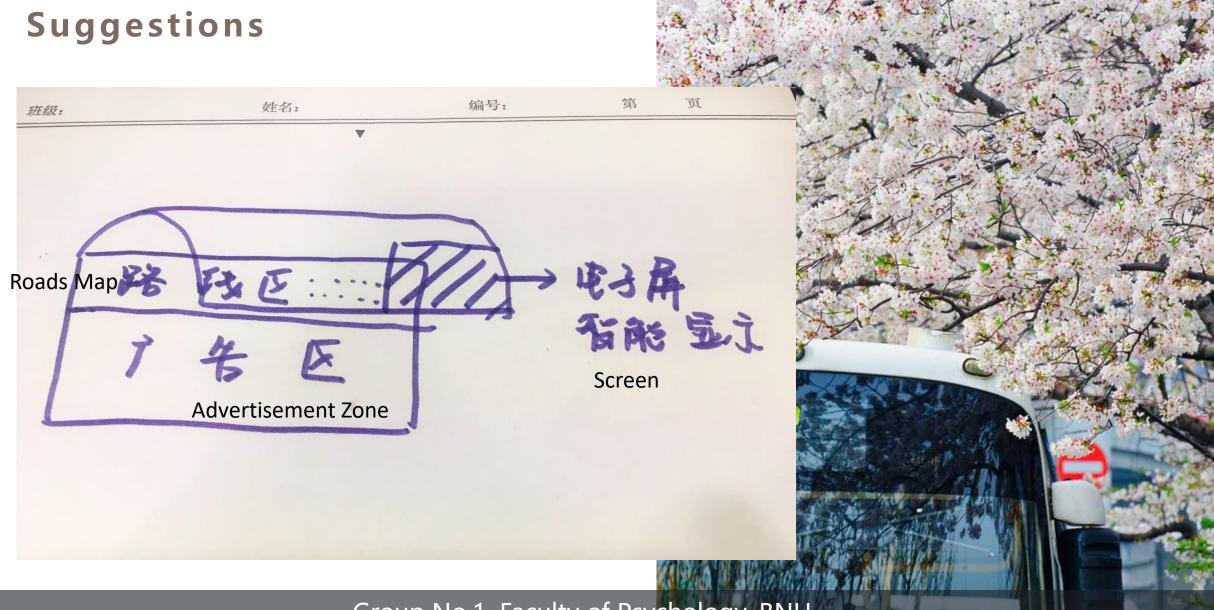
Pain points:

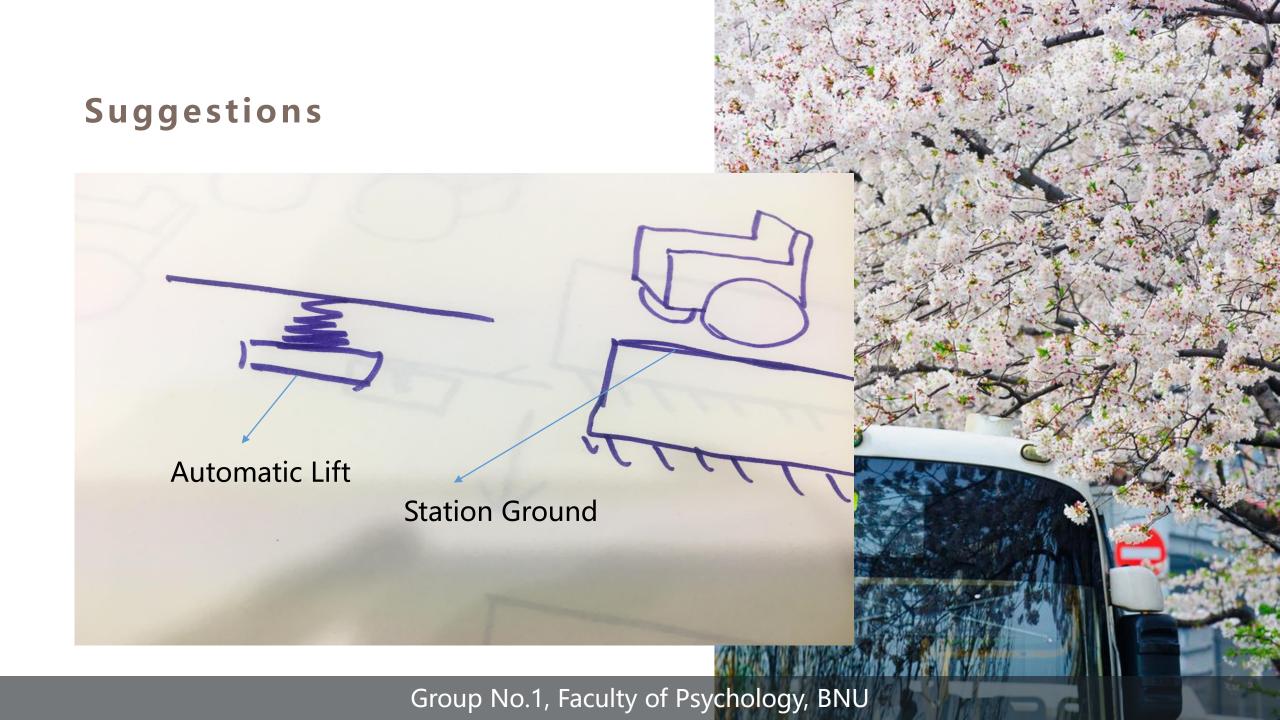
- Unreasonable position of the station sign: only one side presents information, and it is inconvenient to search and check during peak hours
- Unclear station sign information: too small characters
- Unknown arriving time
- Inconvenient for special people to get on and off
- Inconvenient to change
- Crossing with auxiliary roads
- Crowded entrances and exits at platform (noisy and disordered environments, narrow space)

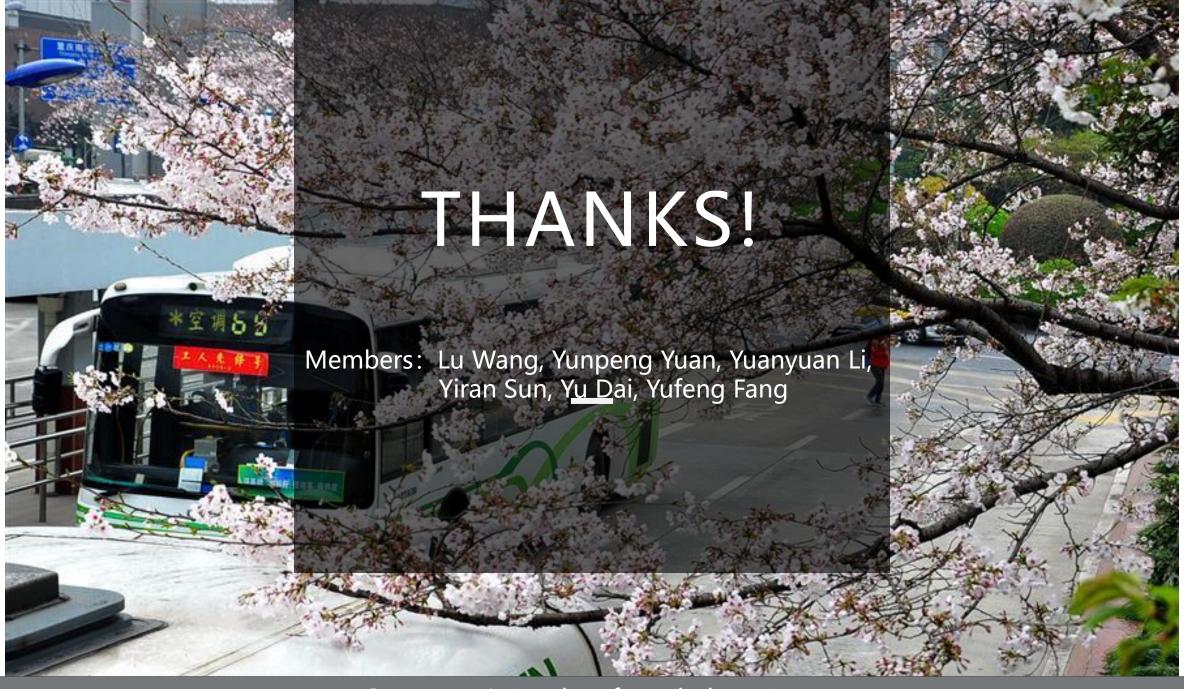
Suggestions

- Real-time bus information broadcast
- Billboards and Stations in one to save space
- Automatic currency exchange machine
- Awning combined with electronic screen
- Automatic lifts to help special groups









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