

Questionnaire on public acceptance of driverless buses

Dear Mr./Ms.,

Thank you very much for taking the time to participate in this survey on the public acceptance of driverless buses. Please tick the box that matches your personal information or psychological state on the content described. All data collected in this survey will only be used for academic research, and your personal information will remain confidential.

Best regards!

Introduction:

The driverless bus is a new type of intelligent bus that can learn the surrounding road environment through numerous on-board sensors, as well as automatically control the vehicle steering and driving speed through the automated driving system. Road tests of driverless buses have already been initiated in many countries, including China. The Alphabus in Shenzhen and the Apolong of Baidu are typical examples of China's driverless buses. Below are some pictures related to the appearance, internal space, and actual operating status of the Alphabus and Apolong, to help you create a more intuitive feeling of driverless buses.



Part 1 Personal information

1. Gender:

- Male Female

2. Age:

- <18 18-25 26-40 41-60 >60

3. Education Level:

- High school and below College degree
 Bachelor's degree Master's degree and above

Part 2 A measurement scale for the public's subjective perceptions of driverless buses

1. Test ride locations for driverless buses will be easy to find.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

2. The payment methods for taking driverless buses will be straightforward.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

3. I will soon become familiar with and accustomed to taking driverless buses.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

4. Driverless buses can reduce traffic congestion, thereby shortening the riding time.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

5. Driverless buses can reduce traffic accidents.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

6. Driverless buses can improve the efficiency and quality of my study, work, and life.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

7. If relatives and friends around me are taking driverless buses, I will follow along.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

8. If colleagues around me are taking driverless buses, I will follow along.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

9. Propaganda and guidance from the media will convince me to take the driverless bus.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

10. Taking the driverless bus will give me more conversation starters in social activities, thereby enhancing my social image.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

11. Driverless buses have received much policy support.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

12. Related management technologies can support driverless bus operations.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

13. I already have the knowledge needed to ride a driverless bus.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

14. I often pay attention to the development trend of driverless buses.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

15. I am willing to try new technology products and services.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

16. I am often the first to use emerging technology products or services among my acquaintances.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

17. I am good at exploring and trying new things.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

18. I think the speed of driverless buses is not fast enough, which will affect my travel time.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

19. I am concerned that driverless buses will cost more than traditional buses.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

20. I am concerned that the functional design of driverless buses is still not perfect today.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

21. I am concerned about being persecuted by others in the driverless buses.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

22. I am concerned that the safety performance of driverless buses is not guaranteed.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

23. I am concerned that driverless buses will conflict and interfere with human-driven vehicles.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

24. I will take the driverless bus when the technology is mature in the future.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

25. I will take driverless buses often in the future.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree

26. I would highly recommend taking driverless buses to my relatives and friends.

- Strongly disagree Disagree Disagree somewhat Neither agree nor disagree
 Agree somewhat Agree Strongly agree