FACULTY OF TRANSPORTATION SCIENCES CTU IN PRAGUE

Project MAVEN

Preliminary survey results

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 690727

Online Survey

Our target audience

The survey is targeting mainly on general public, i.e. future users of autonomous vehicles and participants of the traffic (drivers of conventional vehicles, VRU and others).

Due to the nature of the survey distribution, this group will also include some experts, city authorities and people interested in the topic of autonomus driving. They are however not targeted primarily.

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Online survey

Main topics / groups

1. **Socio-demographic characteristics**

   (4 - 5 questions)

2. **Expected impacts / Effects of autonomous driving** (e.g. expected impact on congestions, safety or others)

   (4 - 5 questions)

3. **Integration into a city** (e.g. sensitivity to sharing of public space, sensitivity to priorities of the different modes, reaction to MAVEN use cases)

   (4 - 5 questions)

4. **Transition** from the current state to a state with higher penetration of autonomous vehicles

   (4 - 5 questions)

5. **Perception** (e.g. concerns, potential issues)

   (1 - 2 questions)

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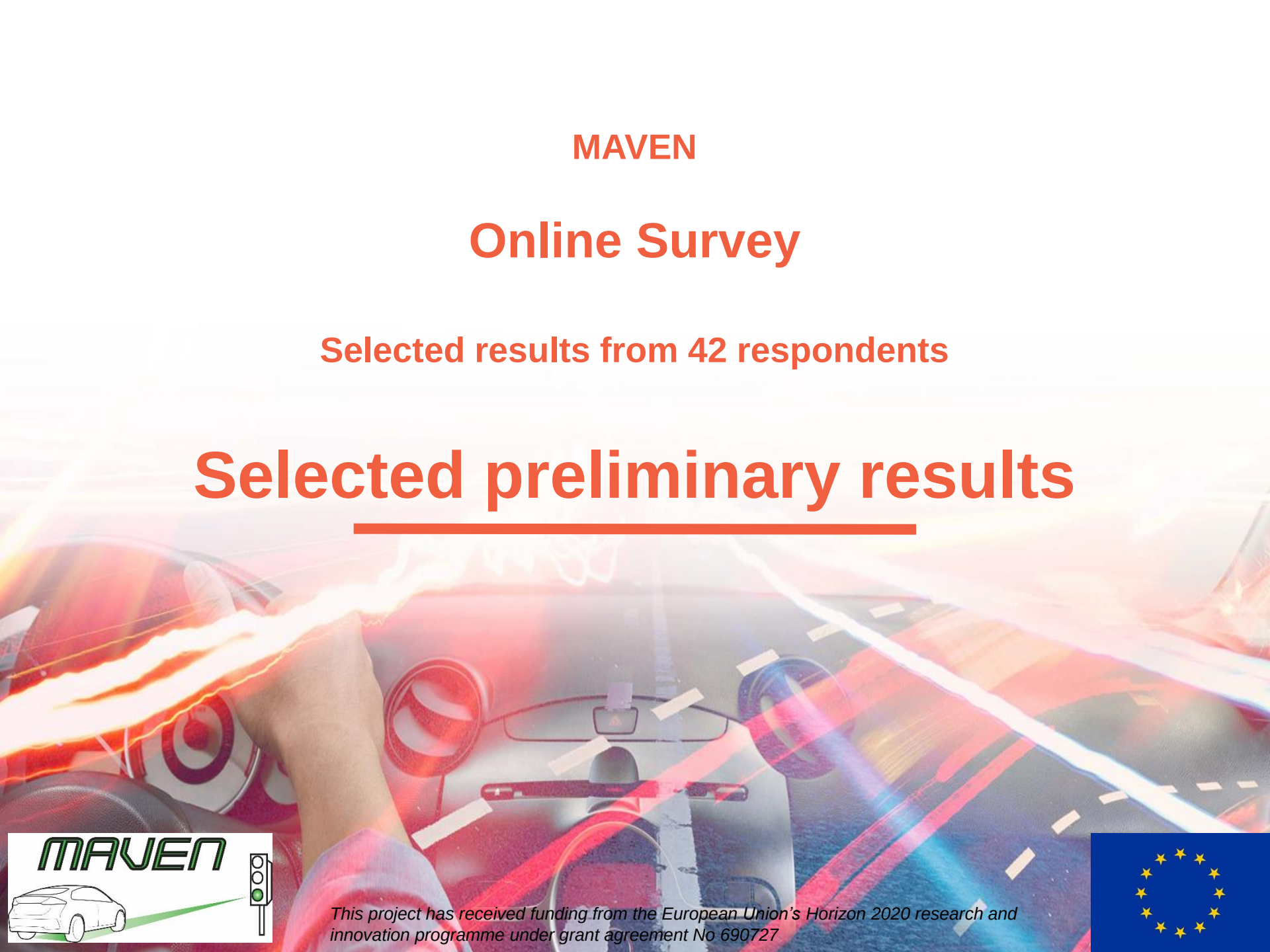
MAVEN

Online Survey

Selected results from 42 respondents

Selected preliminary results



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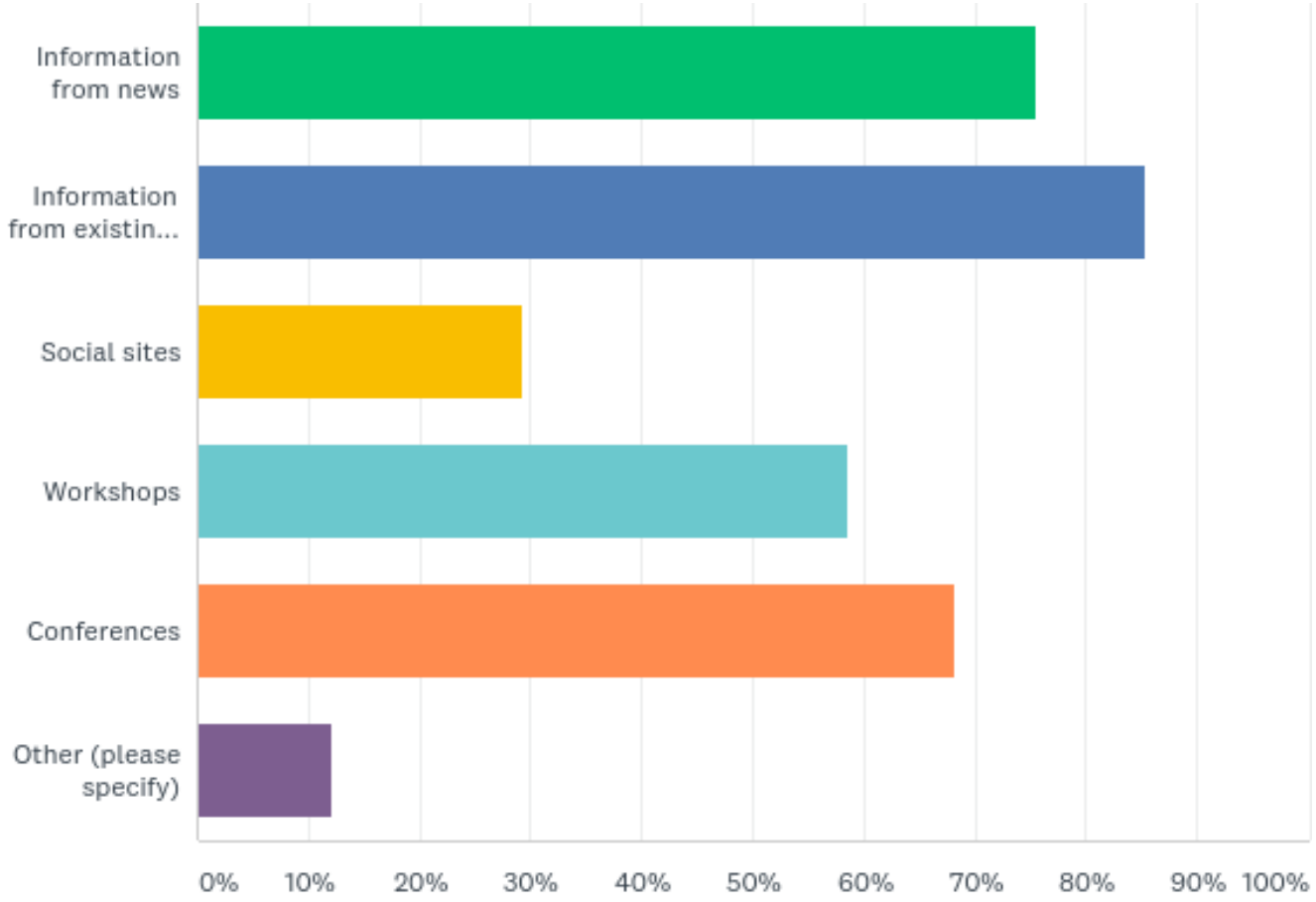
Q2: What is your source of information related to automated vehicles?

Answered: 41 Skipped: 1



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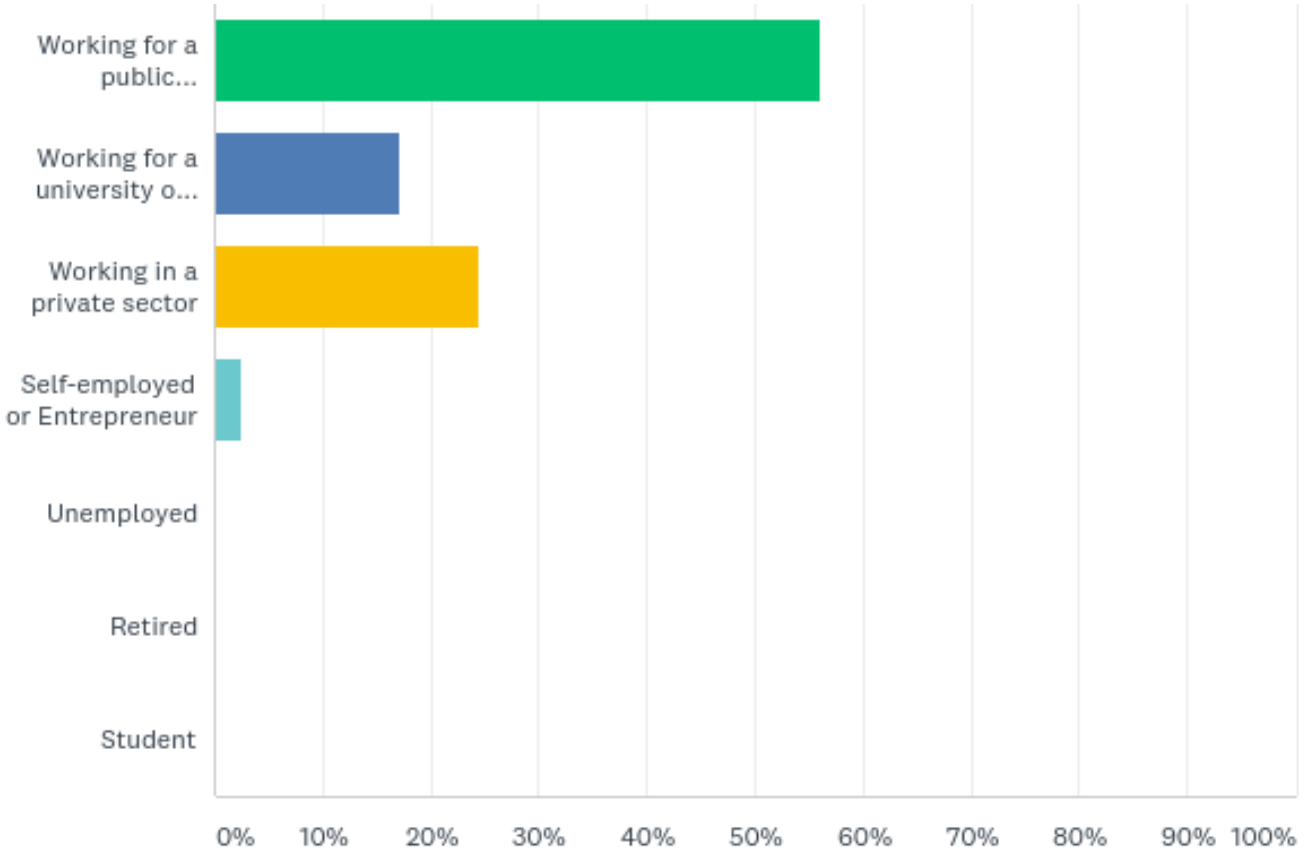
Q5: What is your working status?

Answered: 41 Skipped: 1



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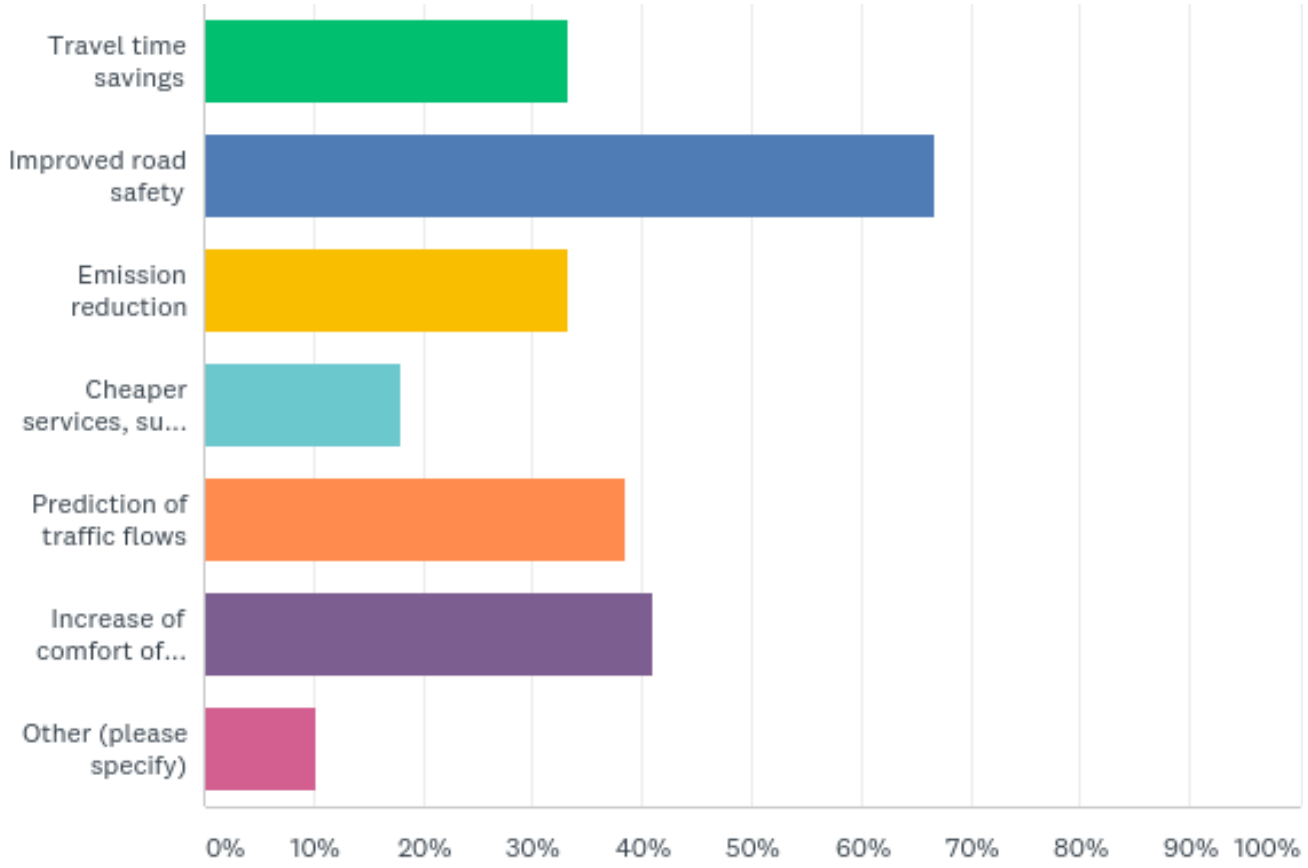
Q7: What are the most important benefits you expect automated vehicles to deliver?

Answered: 39 Skipped: 3



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Q11: What impact do you expect automated vehicles to have on your quality of life?

Answered: 39 Skipped: 3

	VERY NEGATIVE	NEGATIVE	NEUTRAL	POSITIVE	VERY POSITIVE	TOTAL	WEIGHTED AVERAGE
(no label)	2.56% 1	5.13% 2	25.64% 10	58.97% 23	7.69% 3	39	0.64

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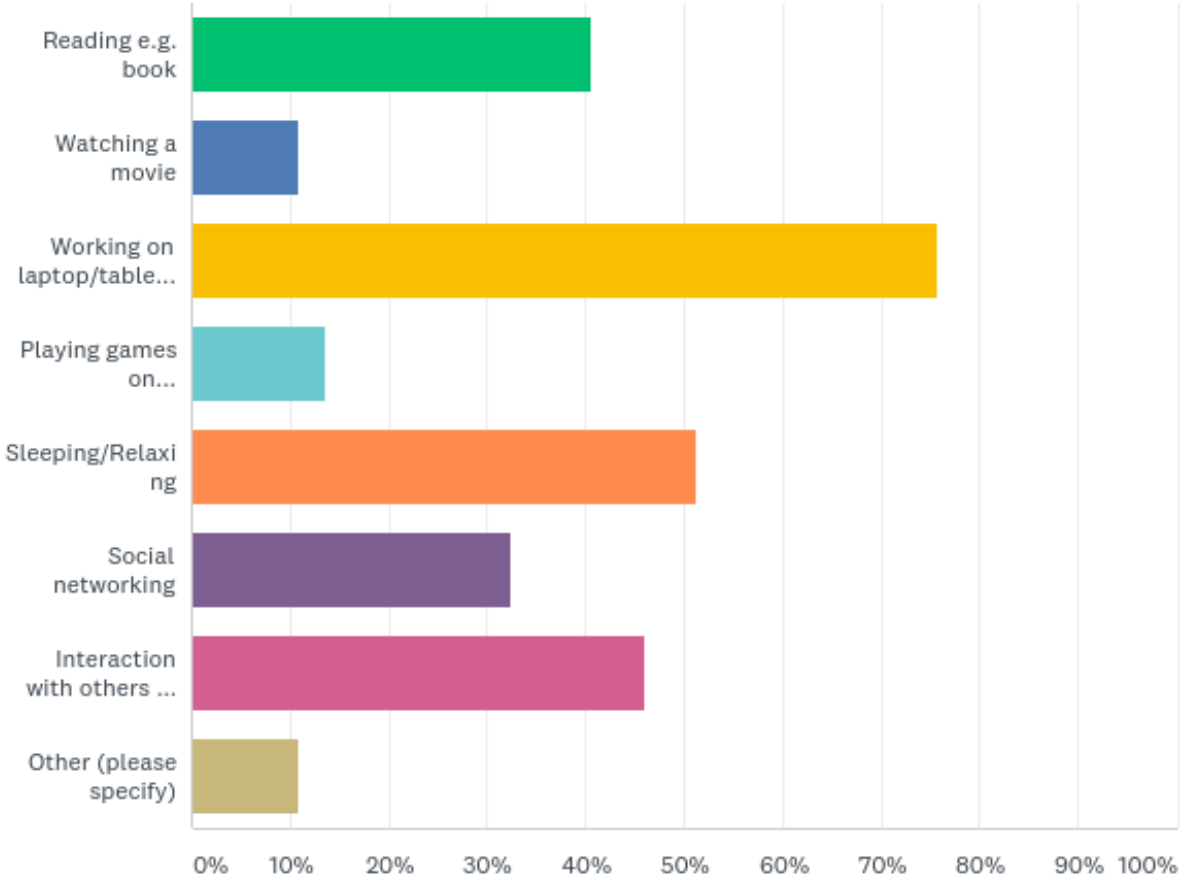
Q12: If you would ride in an automated vehicle, how would you use the extra time instead of driving?

Answered: 37 Skipped: 5



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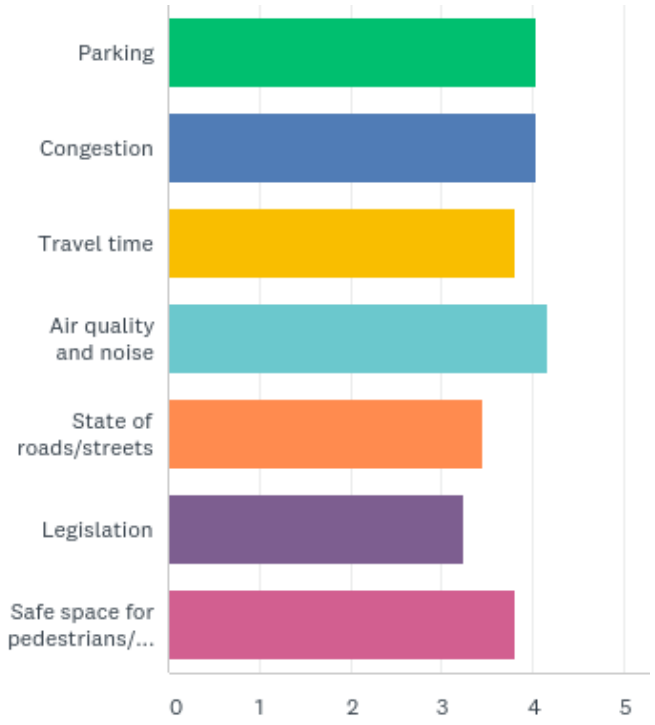
Q13: How critical are the following issues related to mobility and infrastructure in your city?

Answered: 37 Skipped: 5



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Q14: Do you agree that a platoon of five automated vehicles should get an extended green light to allow the full platoon to pass through the traffic signals?

Note: A vehicle platoon is a group of vehicles that travels in close proximity to one another, nose-to-tail. A lead vehicle is followed by a number of other vehicles that closely match their speed and maneoeuvres to the lead vehicle.

Answered: 37 Skipped: 5

	STRONGLY DISAGREE	DISAGREE	NEITHER AGREE NOR DISAGREE	AGREE	STRONGLY AGREE	TOTAL	WEIGHTED AVERAGE
(no label)	2.70% 1	29.73% 11	18.92% 7	40.54% 15	8.11% 3	37	0.22

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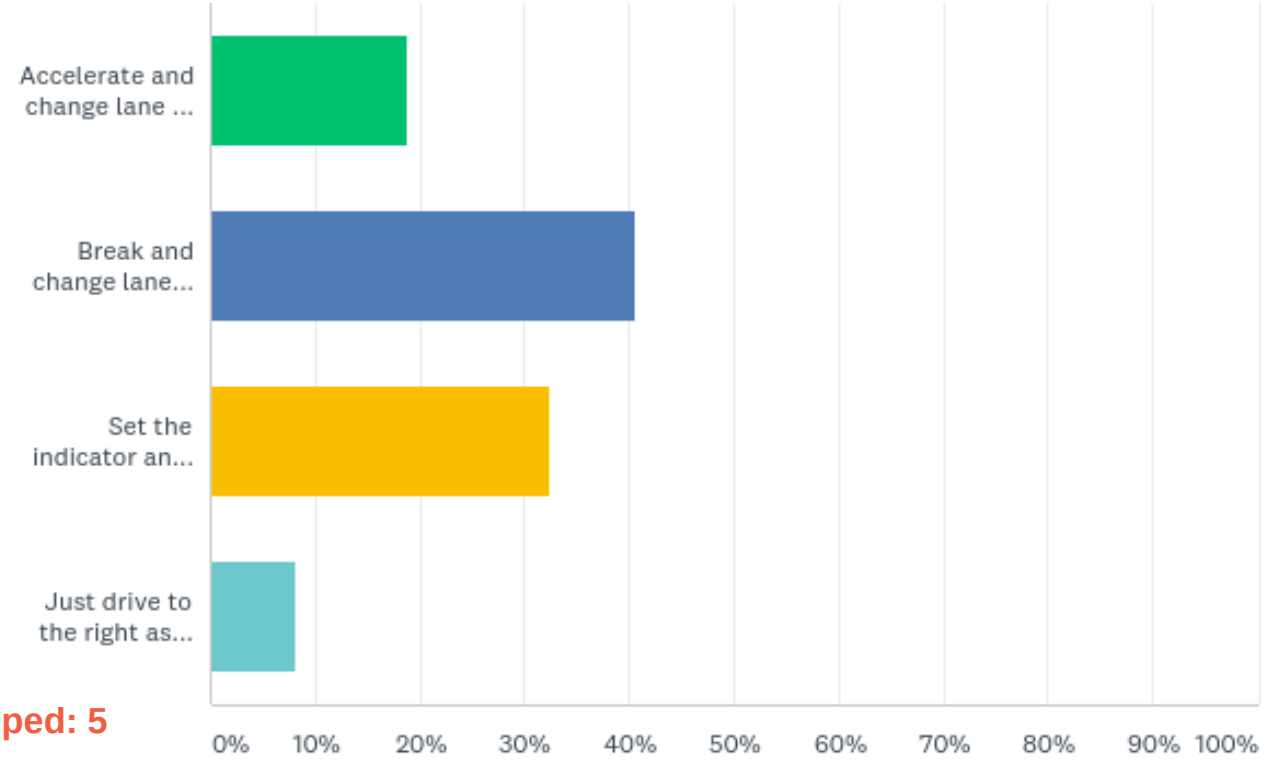
Q15: How would you react in the following situation?

Situation: You are driving manually on the left lane in a city while a platoon of 5 vehicles is driving on the right lane with the same speed. There are no other vehicles and the road is straight. You want to turn right on the next intersection in 200m, where a traffic light just became green, and need to change lane to the right. What will you do?



Answered: 37 Skipped: 5

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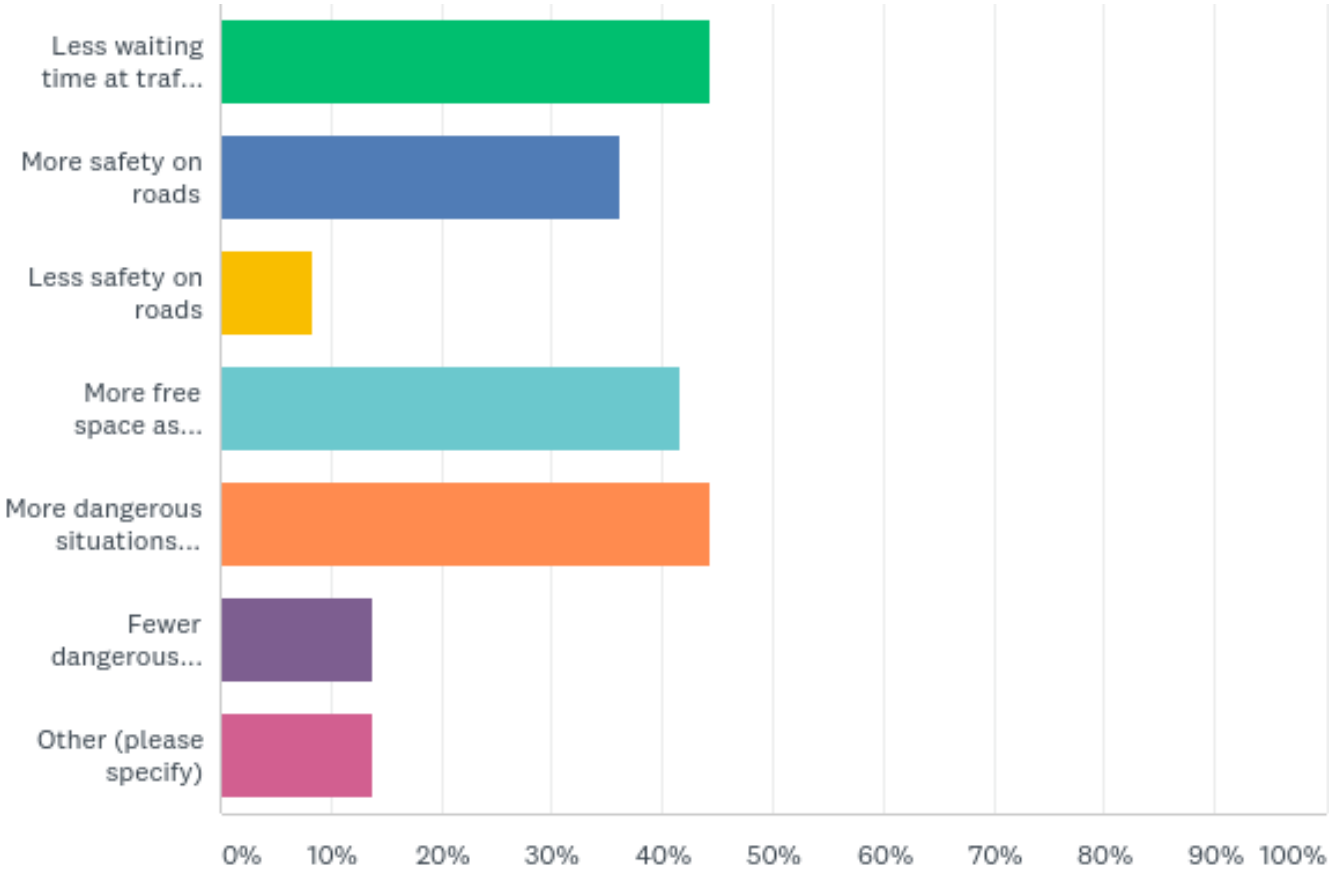
Q17: What do you think would be an impact of platoons in urban areas?

Answered: 36 Skipped: 6



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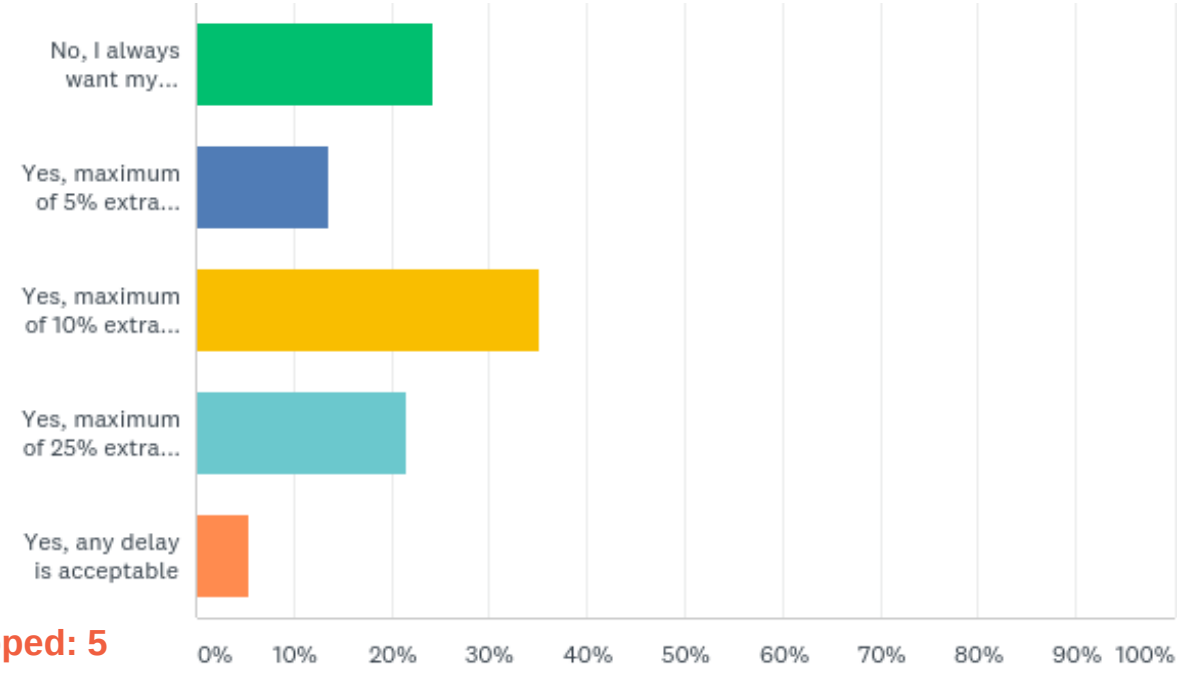
Q18: You are a passenger in an automated vehicle and you don't have an appointment at a specific time at your destination. Would you accept the vehicle taking a detour to reduce congestion?

Note: This could lead to better distribution of traffic in the network and thus reaching the overall optimum, but lead to an increase of travel time for you particularly.



Answered: 37 Skipped: 5

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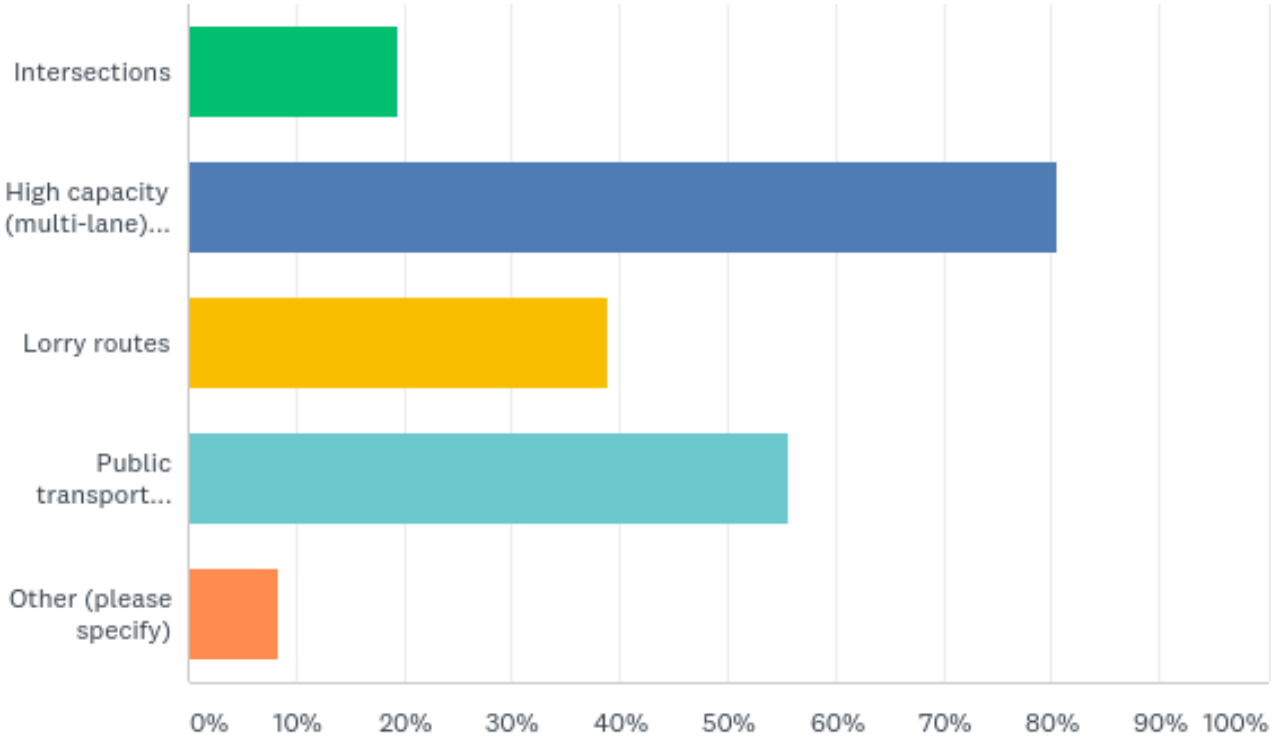
Q19: Where do you think, platooning could play a beneficial role in cities?

Note: A vehicle platoon is a group of vehicles that travels in close proximity to one another, nose-to-tail, at highway speeds. A lead vehicle is followed by a number of other vehicles that closely match their speed and manoeuvres to the lead vehicle.



Answered: 36 Skipped: 6

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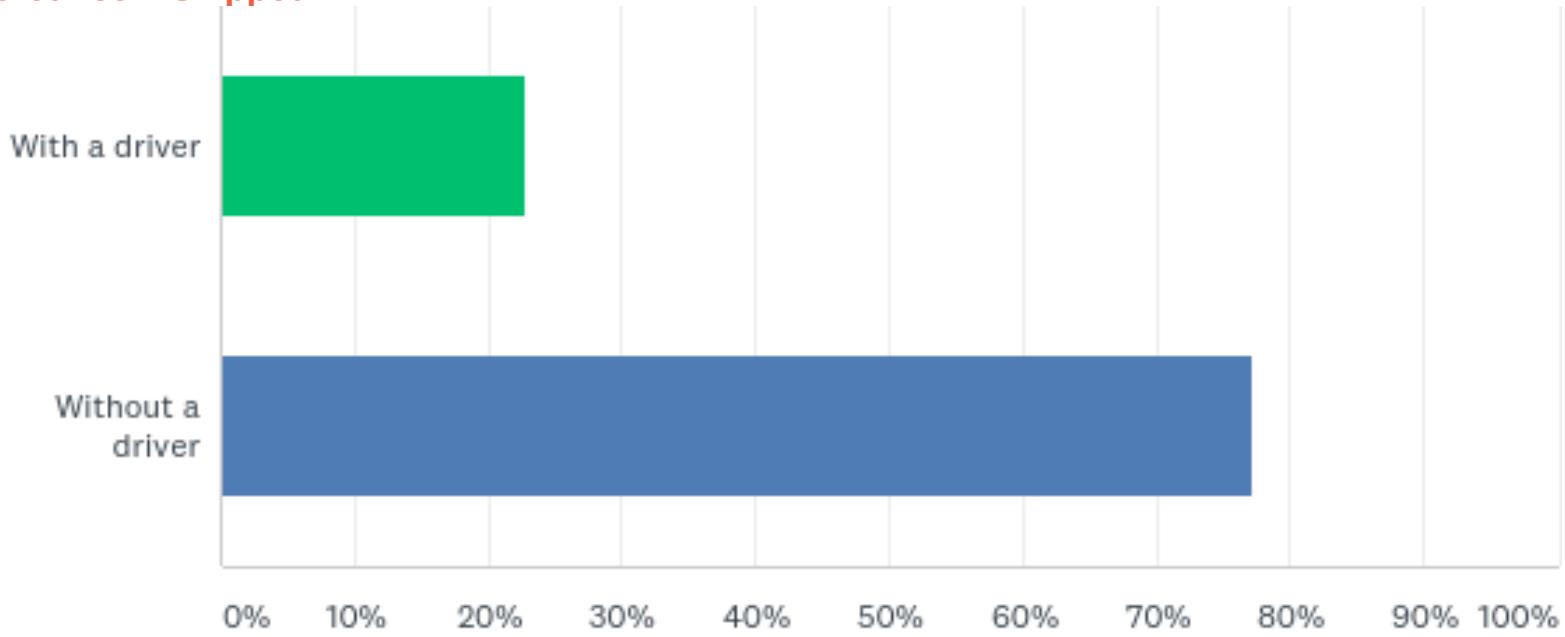
Q20: For your business trip, you can order a standard taxi (with a driver) or an automated taxi (without a driver). Both with the same error rate. Which one will you select, if automated taxi is 10% cheaper?

Answered: 35 Skipped: 7



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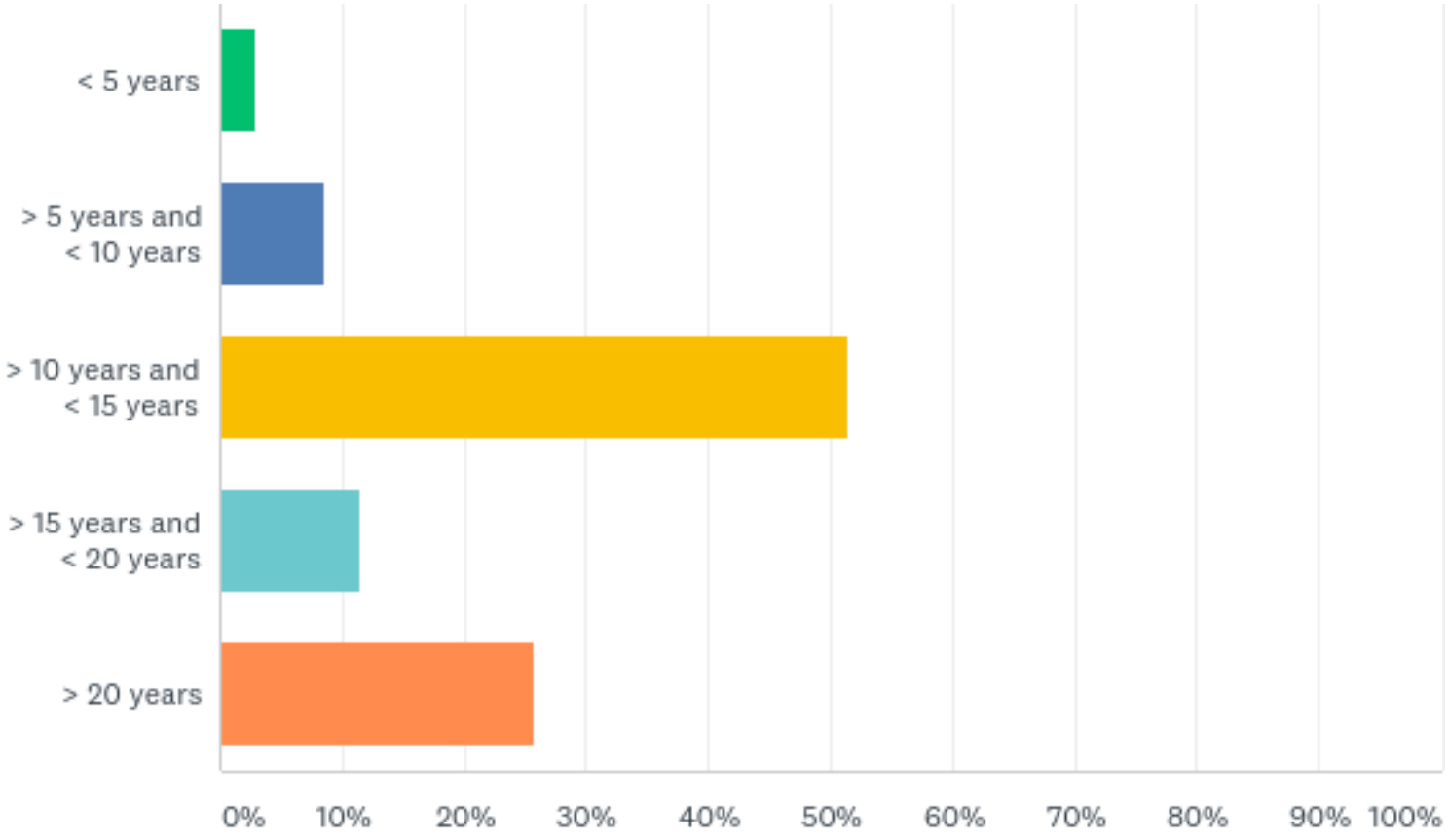
Q22: In how many years do you expect 10 % of all vehicles in the cities to be automated?

Answered: 35 Skipped: 7



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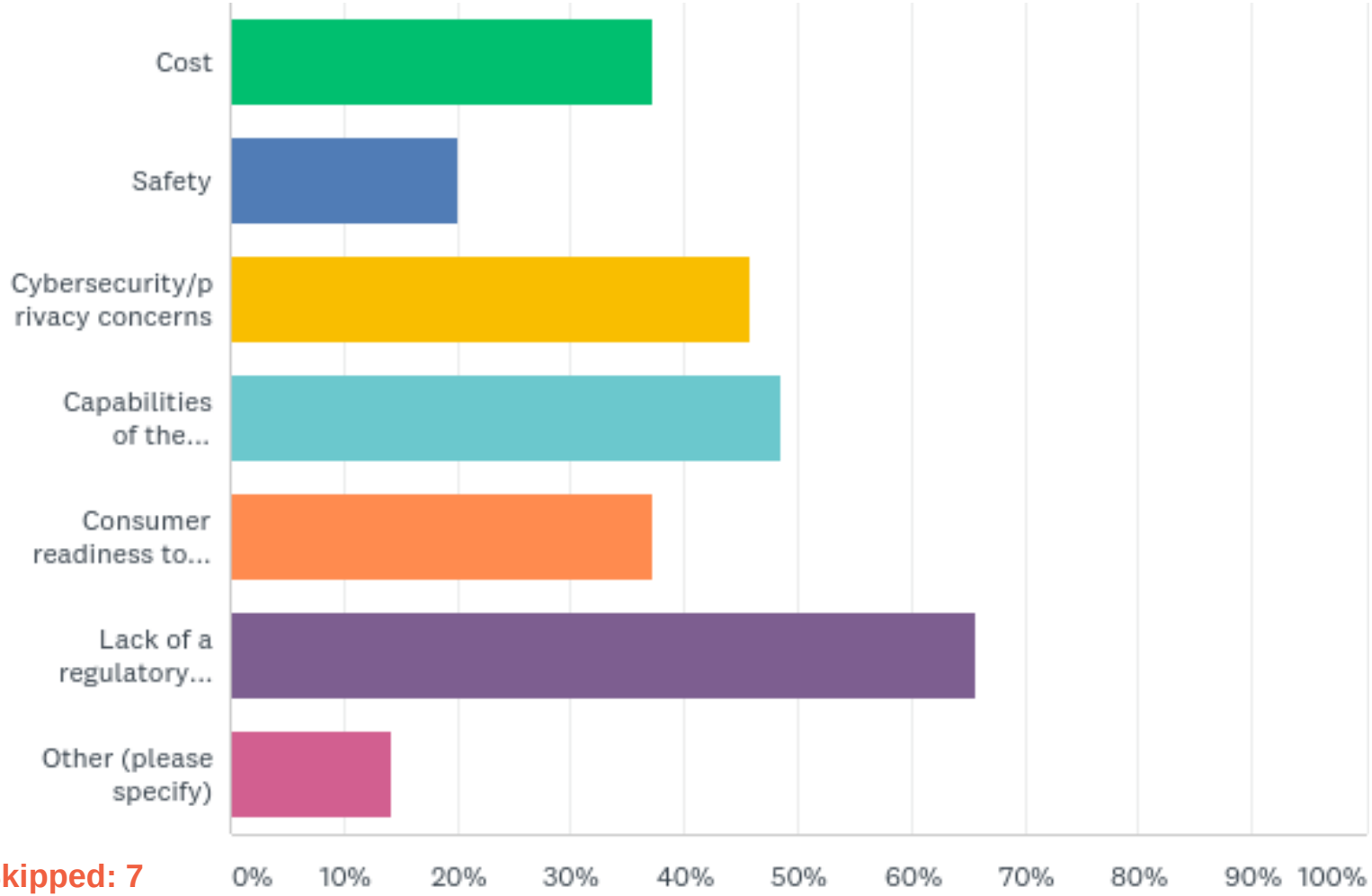
Q24: What do you see as the biggest obstacle to the introduction of automated vehicles?



Answered: 35 Skipped: 7

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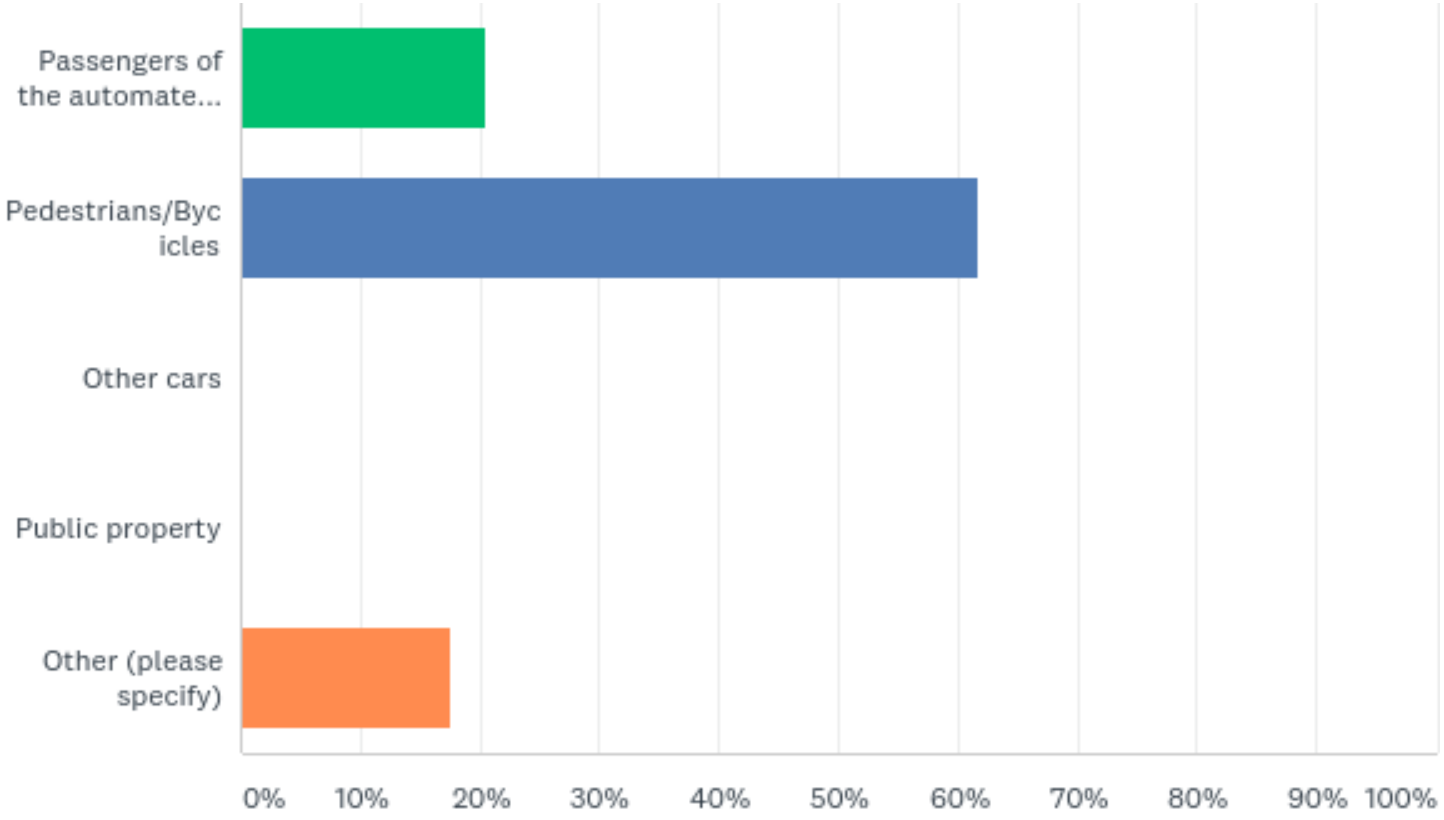
Q26: Who should be protected (prioritizied) by the automated vehicle software in case of a dangerous situation?

Answered: 34 Skipped: 8



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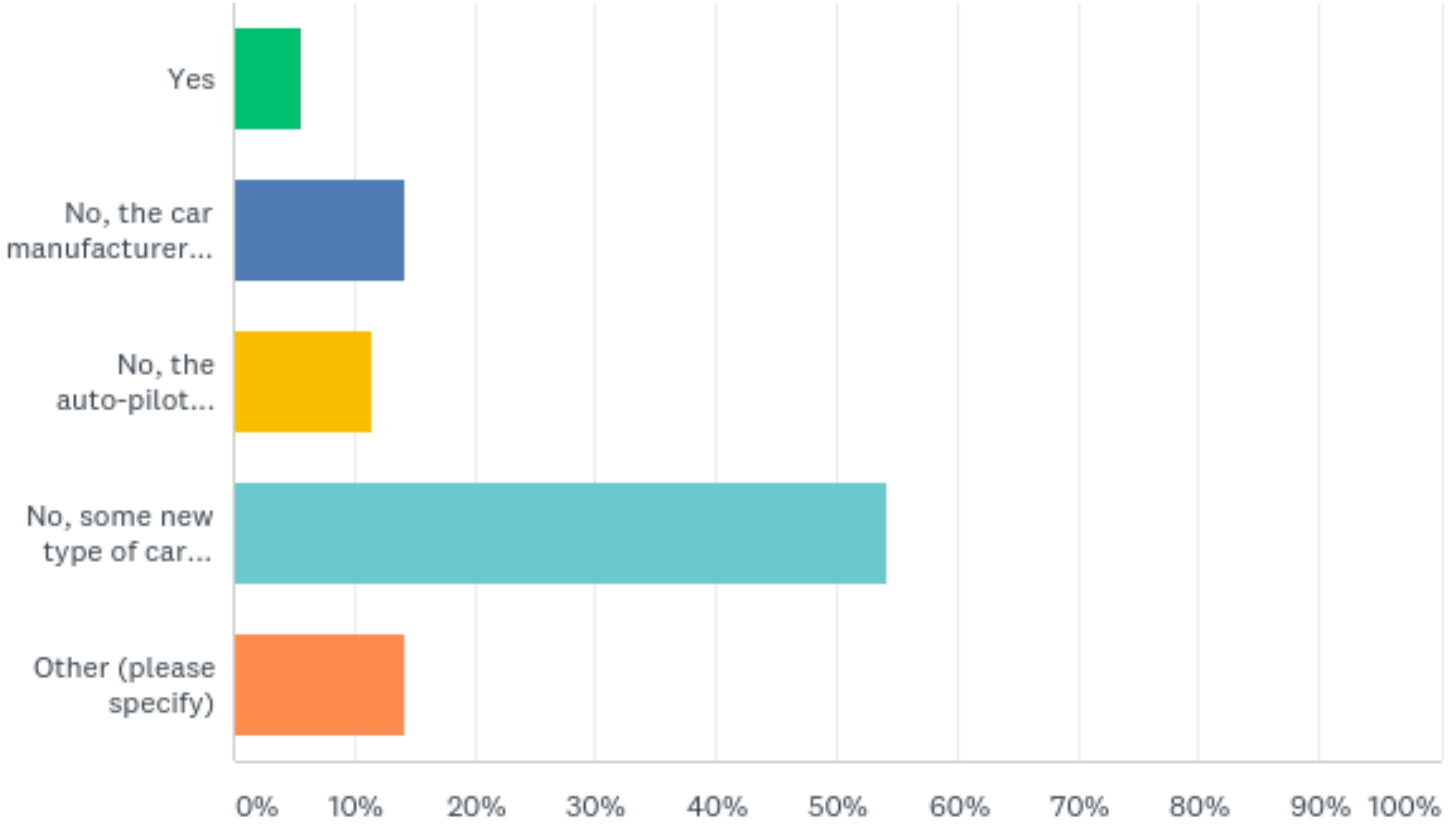
Q27: Would you be willing to accept liability if there was an accident while the car was driving automatically?

Answered: 35 Skipped: 7



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If you have not yet participated in the survey...

https://www.surveymonkey.de/r/MAVEN2018_on

The analysis of the complete survey results will be available in May 2019.

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Thank you for participation!

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