

# V2V SAFETY TECHNOLOGY SURVEY

We are from the Connected Car Services Research Group, Center of Intelligent Cloud Computing, Multimedia University. This survey is conducted to gain a better understanding of the communities opinions about transportation and Vehicle-to-vehicle (V2V) safety technology.

Vehicle-to-vehicle (V2V) communication technology consist of wireless network where vehicles can communicate with each other by sending and receiving safety messages or information about their vehicles and driving behavior. Example of information including speed, location and braking. This technology is aimed to improve road safety, reduce traffic congestion and help in smooth-running of vehicles flow on the road.

This study will take about 20 minutes to complete and we ask that you complete the survey in one sitting (without taking any breaks) to avoid distractions.

Thank you for participating in this survey! Your input is extremely valuable to us. Your answers are private and confidential. No one will ever be able to connect your name with these answers.

## Disclaimer:

By participating in this survey, respondents agree and understand that:

- i) the disclosure of any information here are made on voluntary basis;
- ii) the researchers are not liable and responsible for any loss arising from the use of the information provided;
- iii) any identifiable information obtained in connection with this survey would remain confidential, and
- iv) the results may be submitted for publication and the anonymised dataset would be made publicly available in data repository.

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**\*Required**

## SECTION A : DEMOGRAPHIC INFORMATION



## 1) Age \*

- ☐ 18 - 25 years old
- ☐ 26 - 34 years old
- ☐ 35 - 54 years old
- ☐ 55 - 64 years old
- ☐ above 64 years old

## 2) Education \*

- ☐ SPM
- ☐ Certificate
- ☐ Diploma
- ☐ Bachelor's Degree
- ☐ Master's Degree
- ☐ Doctoral / Professional Degree
- ☐ Other:

## 3) Gender \*

- ☐ Female
- ☐ Male



#### 4) Area of Expertise \*

- ☐ Agriculture, Food and Natural Resources
- ☐ Architecture and Construction
- ☐ Art, Audio/Video Technology and Communication
- ☐ Business management and Administration
- ☐ Education and Training
- ☐ Finance
- ☐ Information Technology
- ☐ Law, Public Safety, Corrections and Security
- ☐ Manufacturing
- ☐ Marketing, Sales and Services
- ☐ Science, Technology, Engineering and Mathematics
- ☐ Transportation, Distribution and Logistics
- ☐ Other:

#### 5) How would you describe the area in which you live?

- ☐ Rural
- ☐ Suburban
- ☐ Urban



6) Choose the best statement which describes you. If you have a Malaysian driving license, please answer Question 7 and 8. Else, proceed directly to Question 9. \*

- ☐ I currently have a Malaysia driving license and I do drive upon need.
- ☐ I currently have a Malaysia driving license but I have not drove a car ever since acquiring my driving license.
- ☐ I currently have a Malaysia driving license and plan to purchase my own car.
- ☐ I do not have a Malaysia driving license but plan to get one in 1-2 years time.
- ☐ I do not have a Malaysia driving license and not interested to acquire one.

#### 7) Driving Frequency

- ☐ Never
- ☐ Rarely
- ☐ Few times a month
- ☐ Few times a week
- ☐ Daily

8) Approximately, how many kilometers do you drive your primary vehicle per week?

- ☐ Less than 100 km
- ☐ 100-200 km
- ☐ 201-300 km
- ☐ 301-400 km
- ☐ More than 400 km



9) How long ago was the last car accident you were involved in? ( Please skip Question 10 if you choose the first option ) \*

- ☐ I have never been involved in a car accident
- ☐ Less than 5 years ago
- ☐ 5-10 years ago
- ☐ 10-15 years ago
- ☐ 15-20 years ago
- ☐ More than 20 years ago

10) Choose the options below that apply to your most recent car accident. ( You can choose more than one )

- ☐ The accident involved injuries requiring medical attention.
- ☐ The accident involved damage over RM1000
- ☐ The accident involved minor damage or injury (fender bender) ONLY

11) Do you plan on purchasing or leasing a new car in the next 12 months?

- ☐ Yes (Please proceed to Question 12)
- ☐ No
- ☐ Don't Know



12) Which of these would highly influence your vehicle purchase? Please select all that apply.

- ☐ Family members
- ☐ Friends
- ☐ Sales staff
- ☐ Professional reviews, such as from Consumer Reports
- ☐ User / consumer reviews, such as from [cars.com](https://www.cars.com) or auto [trader.com](https://www.trader.com)
- ☐ Advertisements
- ☐ Manufacturer websites
- ☐ Insurance Institute for Highway Safety (IIHS), which issues the "Top Safety Pick"
- ☐ Safety Ratings of the car
- ☐ Auto-trader
- ☐ None of these sources
- ☐ Other:

## SECTION B: DESIRABILITY V2V TECHNOLOGY

The next series of questions are about your opinions on Vehicle-to-Vehicle technology, or "V2V". V2V communication technology allows vehicle to transmit data to another connected vehicle via wireless network. Example, if a vehicle suddenly brakes, the vehicle will send safety message to other connected vehicles so that the other vehicles can take safety precautions and avoid unnecessary collisions.

1) Are you in favour of having in-vehicle systems which can provide driving assistance?

- ☐ Yes
- ☐ No



2) If this technology are widely used and available at low cost, how interested are you in having V2V technology in your next car? \*

	1	2	3	4	5	
Not interested at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Very interested



3) How important would these potential benefits of V2V be to you if you were to consider purchasing a vehicle that included V2V technology? Assume that the system is widely used. Driving a vehicle equipped with such technology would make .... \*

	1 - Not important at all	2	3	4	5 - Very Important
Driving more convenient and efficient for drivers in general.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The number of car accidents (and associated injuries and fatalities) among drivers in general lower	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving safer for drivers in general.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Driving safer for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insurance company to reduce insurance rates	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reduce workload while driving	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide more comfort to driver and passenger comfort	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reduce travel- time and delays	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Be fuel economy and	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>





reduce  
emissions

Enhance safety  
of the driver and  
passengers

☐☐☐☐☐

Allow  
environmental  
and social  
connected

☐☐☐☐☐

Make driving  
less tiring

☐☐☐☐☐

4) Please rate your preferences on the V2V technology which provides driver assistance based on the statement: "I would prefer in-vehicle systems that ...." \*

	1- least preferred	2	3	4	5 - most highly preferred
provide information about the trip, such as routes, congestion and incidents?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
assist with driving, such as signal timing information or blind spot occupancy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
enhance safety, such as automated braking systems and collision avoidance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
enable automated highway driving using lane centering and safe headways.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
include self-driving systems which do not require human input other than destination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



5) Please rate your agreement or disagreement with the following statements. I believe that : \*

	1 - Strongly Disagree	2	3	4	5 - Strongly Agree
I may be less attentive while driving, due to over-reliance on V2V technology or distractions from the alerts.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I may rely too much on V2V technology for safety, and not apply safe driving practices as much as I should (e.g., maintain a safe distance from other vehicles).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other drivers may be less attentive while driving, due to over-reliance on V2V technology or distractions from the alerts.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other drivers may rely too much on V2V technology for safety, and not apply safe driving practices as much as they should (e.g., maintain a safe distance from other vehicles).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Security breaches and	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



"hacking" of V2V technology would occur.

Electromagnetic activity from communication devices such as those used in V2V pose a health risk to drivers.

Too few drivers would participate in the system for V2V to be useful (V2V technology depends on a network of drivers, so a minimum number of drivers must use it in order for the system to be useful).

The use of V2V technology by law enforcement agencies to identify illegal behavior.

The use of V2V technology by the government to track drivers' locations and activities.

The government should use V2V technology to track drivers' locations and activities in order to make drivers safer.

Law enforcement

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

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identify illegal  
activity in order  
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safer.

## SECTION C : PREFERENCES TO V2V TECHNOLOGY

1) Which of the following statements best describes you? \*

- ☐ I prefer to be the first to buy and try new technologies.
- ☐ I prefer to wait until new product hype has calmed before I purchase and try new technologies.
- ☐ I prefer to wait until new technologies have been thoroughly tested and reviewed, and others I know have purchased and used new technologies before I purchase.
- ☐ None of the above.



2) What is the most you would be willing to pay for V2V technology if it were available to purchase today? \*

- ☐ I would not pay for V2V technology.
- ☐ RM1-RM100
- ☐ RM101-RM200
- ☐ RM201-RM400
- ☐ RM401-RM600
- ☐ RM601-RM800
- ☐ RM801-RM1000
- ☐ RM1,001-RM1,500
- ☐ RM1,501-RM2,000
- ☐ More than RM2,000

3) Which of the following actions best describes what you would do if V2V were included in a car you purchased? Please select only one option. \*

- ☐ I would use the technology.
- ☐ I would ignore the technology but leave it on.
- ☐ I would disable the technology.
- ☐ I would remove the technology from the vehicle.



4) We're interested in your opinion about what we might call Vehicle-to-Vehicle technology, other than "V2V technology". Of the following possible names for V2V, which are your favorites? Please select up to three (3) names. \*

- ☐ 360 Awareness
- ☐ Auto Alert
- ☐ Certified Driving
- ☐ Secured Driving
- ☐ Total Awareness
- ☐ Vehicle Awareness Safety System
- ☐ Vehicle Awareness System
- ☐ Vehicle Perimeter Safety
- ☐ Vehicle Positioning System (VPS)
- ☐ V2V Communications
- ☐ Connected Vehicles

I may be contacted via ... (If possible, please provide your email address or phone number)

Your answer

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