

Supplementary material

Study: What will the car driver do? A video-based questionnaire study on cyclists' anticipation during safety-critical situations

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Appendix A: The 5 freezing moments and participants' knowledge of priority rules per intersection situation.....	2
Appendix B: Top views of the intersection situations	13
Appendix C: Cross-cultural differences.....	14

Appendix A: The 5 freezing moments and participants' knowledge of priority rules per intersection situation

Practice situation

Location: unknown

Intersection situation: Safe



Clip freezing moment: Late

[Columbia SC Biker]. (2017, February 10). *Failure to yield right of way, illegal turn, near collision* [Video File]. Retrieved from <https://youtu.be/Og6yCmAwxvk>
Edited video clip will be made available on request.

Situation no. 1

Location: Hoendiep – Friesestraatweg, Groningen, the Netherlands

Intersection situation: Crash



Clip freezing moment: Very early



Clip freezing moment: Early



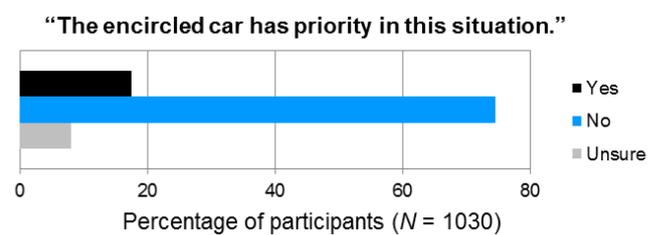
Clip freezing moment: Intermediate



Clip freezing moment: Late



Clip freezing moment: Very late
The 'relevant' car is encircled.



[Dutch Bicycle Cam]. (2017, February 8). *2 fietsers geraakt door een auto bestuurder* [Video File]. Retrieved from <https://youtu.be/xhHFgFLNw2w>

Edited video clips will be made available on request.

Situation no. 2

Location: Papegaaienlaan – Backershagenlaan, Wassenaar, the Netherlands

Intersection situation: Near miss



Clip freezing moment: Very early



Clip freezing moment: Early



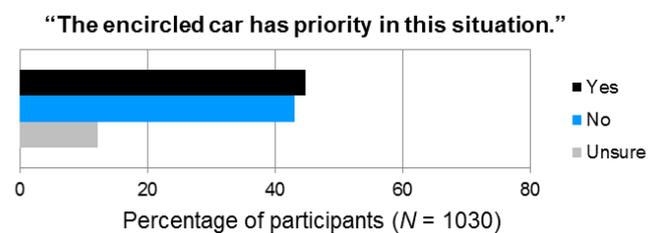
Clip freezing moment: Intermediate



Clip freezing moment: Late



Clip freezing moment: Very late
The 'relevant' car is encircled.



[Ghostbikerteam]. (2017, February 8). *Auto geeft met opzet geen voorrang* [Video File]. Retrieved from https://youtu.be/AsJSm-Zit_c

Edited video clips will be made available on request.

Situation no. 3

Location: Papegaaienlaan – Backershagenlaan, Wassenaar, the Netherlands

Intersection situation: Near miss



Clip freezing moment: Very early



Clip freezing moment: Early



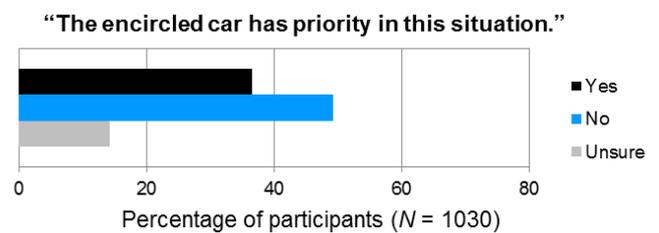
Clip freezing moment: Intermediate



Clip freezing moment: Late



Clip freezing moment: Very late
The 'relevant' car is encircled.



[Ghostbikerteam]. (2017, February 8). *Bestelauto "neemt" voorrang* [Video File]. Retrieved from <https://youtu.be/Z19Kad4eemI>

Edited video clips will be made available on request.

Situation no. 4

Location: Weigelia – Duindoorn, Leidschendam, the Netherlands

Intersection situation: Near miss



Clip freezing moment: Very early



Clip freezing moment: Early



Clip freezing moment: Intermediate



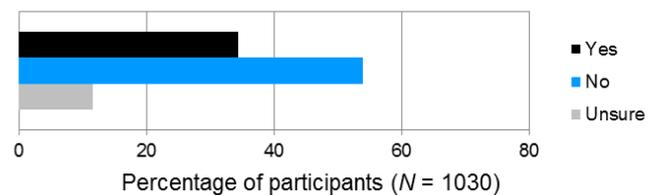
Clip freezing moment: Late



Clip freezing moment: Very late

The 'relevant' car is encircled.

"The encircled car has priority in this situation."



[Ghostbikerteam]. (2017, February 8). *Automobilist slat af zonder te kijken* [Video File]. Retrieved from <https://youtu.be/BZHqDGz0XQM>

Edited video clips will be made available on request.

Situation no. 5

Location: Zwanenburgerdijk – Lindenlaan, Zwanenburg, the Netherlands

Intersection situation: Safe



Clip freezing moment: Very early



Clip freezing moment: Early



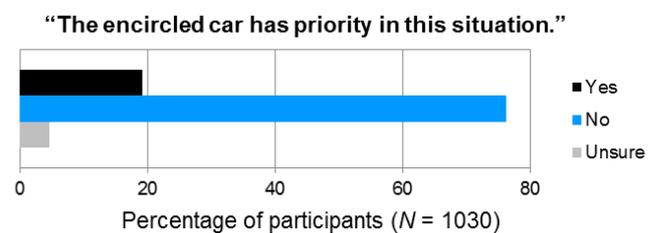
Clip freezing moment: Intermediate



Clip freezing moment: Late



Clip freezing moment: Very late
The 'relevant' car is encircled.



[The username is unknown]. (2017, February 10). *GoPro test on road bike handlebar* [Video File]. The video is no longer available online.

Edited video clips will be made available on request.

Situation no. 6

Location: Washington Avenue – St. Marks Avenue, New York, USA

Intersection situation: Crash



Clip freezing moment: Very early



Clip freezing moment: Early



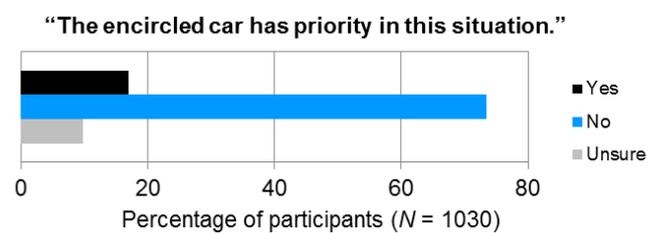
Clip freezing moment: Intermediate



Clip freezing moment: Late



Clip freezing moment: Very late
The 'relevant' car is encircled.



[Joseph Vazquez]. (2017, February 7). *Bike crash NYC. My first Gopro video!* [Video File]. Retrieved from <https://youtu.be/1ISZg8q6stc>

Edited video clips will be made available on request.

Situation no. 7

Location: Dexter Avenue North – Thomas Street, Seattle, USA

Intersection situation: Crash



Clip freezing moment: Very early



Clip freezing moment: Early



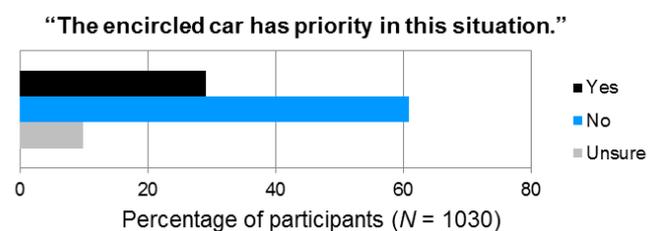
Clip freezing moment: Intermediate



Clip freezing moment: Late



Clip freezing moment: Very late
The 'relevant' car is encircled.



[KRQE]. (2017, February 8). *Seattle bicyclist captures hit and run on helmet camera* [Video File]. Retrieved from <https://youtu.be/5EMSmdLImo>

Edited video clips will be made available on request.

Situation no. 8

Location: Craighead Street – Bransford Avenue, Nashville, USA

Intersection situation: Crash



Clip freezing moment: Very early



Clip freezing moment: Early



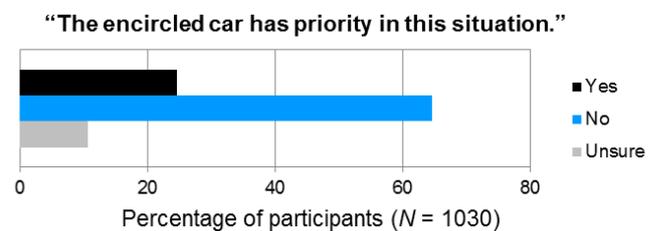
Clip freezing moment: Intermediate



Clip freezing moment: Late



Clip freezing moment: Very late
The 'relevant' car is encircled.



[wendy marin]. (2017, February 10). *Cyclist hit by car while riding in Nashville, Tennessee* [Video File]. Retrieved from <https://youtu.be/kS0RIjeUwF4>

Edited video clips will be made available on request.

Situation no. 9

Location: Joondalup Drive – Cheriton Drive, Carramar, Australia

Intersection situation: Near miss



Clip freezing moment: Very early



Clip freezing moment: Early



Clip freezing moment: Intermediate

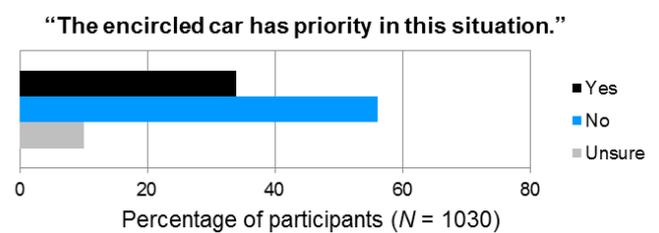


Clip freezing moment: Late



Clip freezing moment: Very late

The 'relevant' car is encircled.



[aliwoh]. (2017, February 9). *Car v cyclist* [Video File]. Retrieved from <https://youtu.be/ILpDx9MZ6Tg>
Edited video clips will be made available on request.

Situation no. 10

Location: Burns Beach Road – Sunlander Drive, Currambine, Australia

Intersection situation: Crash



Clip freezing moment: Very early



Clip freezing moment: Early



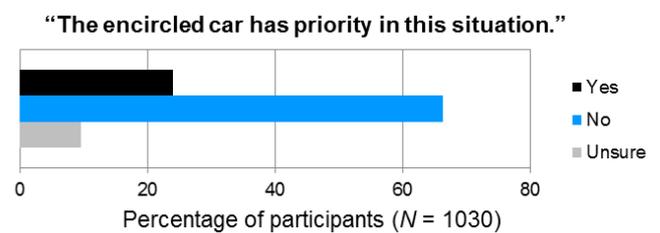
Clip freezing moment: Intermediate



Clip freezing moment: Late



Clip freezing moment: Very late
The 'relevant' car is encircled.



[aliwoh]. (2017, February 9). *Car v cyclist* [Video File]. Retrieved from <https://youtu.be/ILpDx9MZ6Tg>
Edited video clips will be made available on request.

Appendix B: Top views of the intersection situations

The top views of the 10 intersection situations on Google Maps can be found here:

<https://drive.google.com/open?id=15x2JAeMgdnN6wd1W8uffdyukDLatJBcB&usp=sharing>

Instructions:

- Tick the checkbox of the situation you would like to display.
- Click on “Car’s trajectory” to display a detailed top view of the situation.
- Click on the left arrow at the top left next to the “Car’s trajectory” to go back to the main menu.
- The blue line represents the trajectory of the car, the green line the trajectory of the cyclist, and the black line the distance which was used to calculate the cyclist’s average speed.
- By clicking on the red Conflict/Collision/Meeting point icon, the photos and videos will be shown in the left box. You can see the last frame when the car entered the bike lane (near-miss situations), the collision happened (crash situations), or the car stopped (safe situation), as well as the full-length video clip of the particular intersection situation.

Appendix C: Cross-cultural differences

Percentage of participants who reported *no* to the question “Imagine that the cyclist in the video will continue cycling at this speed. Will the car driver let the cyclist cross first?” (left), who reported *yes, I would slow down* to the question “Imagine that you are the cyclist in the video. Would you slow down?” (center), and mean scores of perceived risk for “The situation was risky.” (right) as a function of the clip freezing moment for near-miss (top) and crash (bottom) situations.

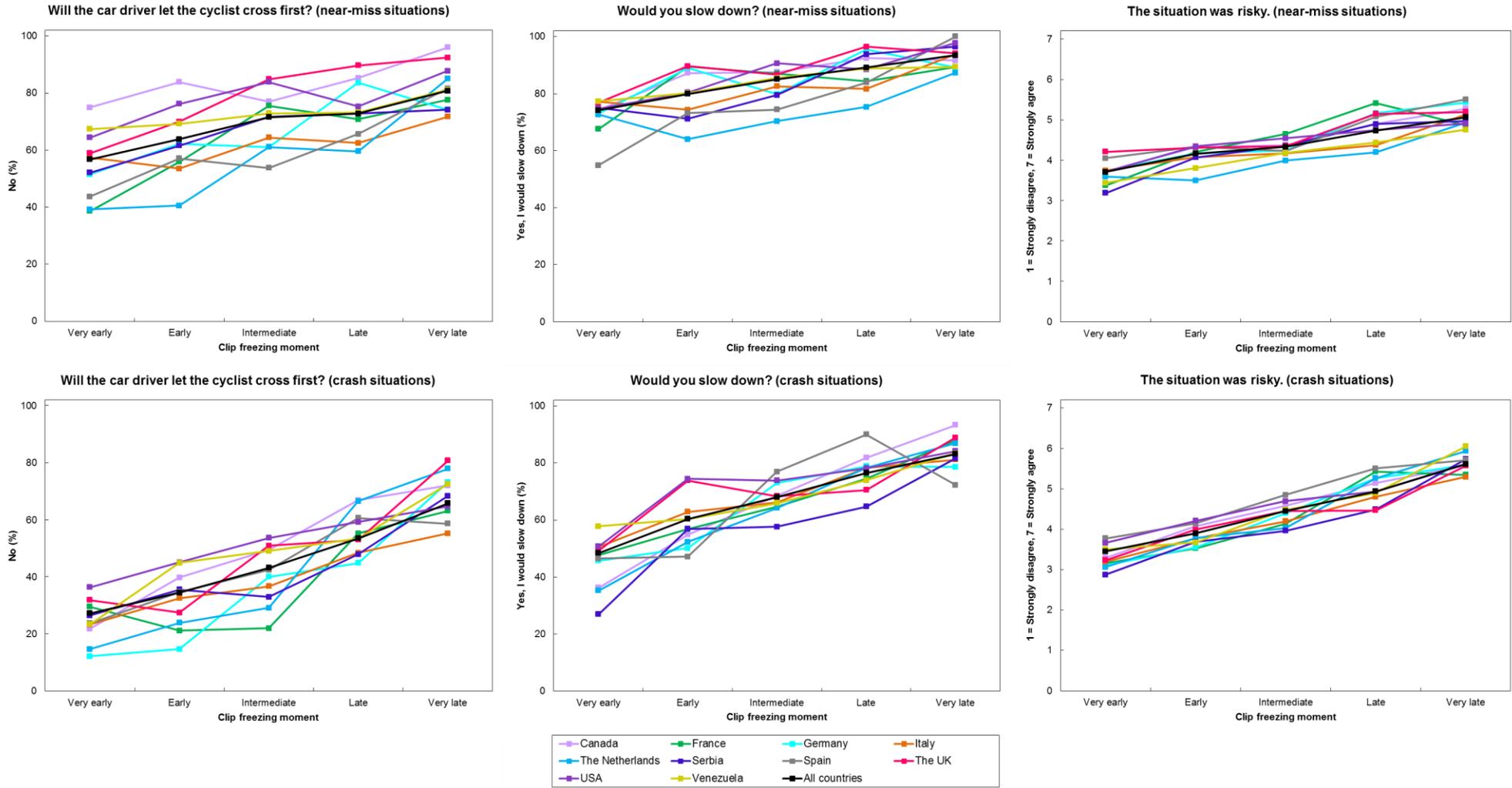


Table 1. Sample sizes per country and video clip freezing moment. Only the countries with more than 30 participants are included.

	<i>N</i>	Very early	Early	Intermediate	Late	Very late
Canada	67	14	19	12	15	7
France	32	8	7	4	7	6
Germany	40	8	11	6	4	11
Italy	116	21	26	24	23	22
The Netherlands	45	11	13	10	6	5
Serbia	54	12	12	4	14	12
Spain	38	10	9	6	5	8
The UK	52	6	8	7	17	14
USA	161	34	26	29	39	33
Venezuela	111	22	23	21	21	24
All countries	1030	205	213	189	213	210