# Appendix JP: Survey Data Dictionary (questions translated to English)

| **Question** | **Data type** | **Variable name** |
| --- | --- | --- |
| Do you have a driver’s license? | Boolean | has\_license |
| How many days a week on average do you use your car? | Scale, [1-7] | car\_use\_frequency |
| Do you ever use a navigation system while driving? | Boolean | uses\_nav |
| Which of these types of navigation systems have you used most in the past 12 months in the car? | Categorical | navigation\_system\_type |
| Which navigation app have you used most in the past 12 months? | Categorical | navigation\_app |
| Can you name 5 things that distract you while driving in your own words? (Distraction 1) | Text | distraction\_1 |
| Can you name 5 things that distract you while driving in your own words? (Distraction 2) | Text | distraction\_2 |
| Can you name 5 things that distract you while driving in your own words? (Distraction 3) | Text | distraction\_3 |
| Can you name 5 things that distract you while driving in your own words? (Distraction 4) | Text | distraction\_4 |
| Can you name 5 things that distract you while driving in your own words? (Distraction 5) | Text | distraction\_5 |
| Specify 5 things that distract you while driving, specifically related to your most-used navigation system. (Distraction 1) | Text | nav\_distraction\_1 |
| Specify 5 things that distract you while driving, specifically related to your most-used navigation system. (Distraction 2) | Text | nav\_distraction\_2 |
| Specify 5 things that distract you while driving, specifically related to your most-used navigation system. (Distraction 3) | Text | nav\_distraction\_3 |
| Specify 5 things that distract you while driving, specifically related to your most-used navigation system. (Distraction 4) | Text | nav\_distraction\_4 |
| Specify 5 things that distract you while driving, specifically related to your most-used navigation system. (Distraction 5) | Text | nav\_distraction\_5 |
| Indicate how often the following distractions occur during the use of your navigation system. (Interaction with the navigation system prevents me from engaging in physical driving activities such as steering, braking, shifting, etc.) | Scale (Likert), [1-5] | distraction\_manual |
| Indicate how often the following distractions occur during the use of your navigation system. (I feel less aware of my surroundings, including the road and other road users, while using the navigation system) | Scale (Likert), [1-5] | distraction\_awareness |
| Geef aan hoe vaak de volgende afleidingen voorkomen tijdens gebruik van jouw navigatiesysteem. (Het kost te veel tijd en/of moeite om mijn focus om te schakelen tussen het rijden en interactie met het navigatiesysteem) | Scale (Likert), [1-5] | distraction\_shift\_focus |
| Indicate how often the following distractions occur during the use of your navigation system. (It takes too much time and/or effort to shift my focus between driving and interacting with the navigation system) | Scale (Likert), [1-5] | distraction\_mental\_load |
| Indicate how often the following distractions occur during the use of your navigation system. (My visual attention frequently wanders away from the road while using the navigation system) | Scale (Likert), [1-5] | distraction\_glance\_frequency |
| Indicate how often the following distractions occur during the use of your navigation system. (My visual attention remains diverted from the road for too long while using the navigation system) | Scale (Likert), [1-5] | distraction\_glance\_duration |
| Identify 5 negative effects on your driving behavior resulting from distraction caused by your navigation system. (Negative effect 1) | Text | nav\_behavior\_1 |
| Identify 5 negative effects on your driving behavior resulting from distraction caused by your navigation system. (Negative effect 2) | Text | nav\_behavior\_2 |
| Identify 5 negative effects on your driving behavior resulting from distraction caused by your navigation system. (Negative effect 3) | Text | nav\_behavior\_3 |
| Identify 5 negative effects on your driving behavior resulting from distraction caused by your navigation system. (Negative effect 4) | Text | nav\_behavior\_4 |
| Identify 5 negative effects on your driving behavior resulting from distraction caused by your navigation system. (Negative effect 5) | Text | nav\_behavior\_5 |
| Indicate how often the following negative effects occur on your driving behavior as a result of distraction caused by your navigation system. (I drive faster while being distracted by the navigation system) | Scale (Likert), [1-5] | behavior\_more\_speed |
| Indicate how often the following negative effects occur on your driving behavior as a result of distraction caused by your navigation system. (I drive slower while being distracted by the navigation system) | Scale (Likert), [1-5] | behavior\_less\_speed |
| Indicate how often the following negative effects occur on your driving behavior as a result of distraction caused by your navigation system. (I lose track of my speed while being distracted by the navigation system) | Scale (Likert), [1-5] | behavior\_speed\_control |
| Indicate how often the following negative effects occur on your driving behavior as a result of distraction caused by your navigation system. (My lane position becomes less stable (swerving) due to distraction caused by the navigation system) | Scale (Likert), [1-5] | behavior\_lane\_position |
| Indicate how often the following negative effects occur on your driving behavior as a result of distraction caused by your navigation system. (I react slower to traffic events due to distraction caused by the navigation system) | Scale (Likert), [1-5] | behavior\_reaction\_time |
| Indicate how often the following negative effects occur on your driving behavior as a result of distraction caused by your navigation system. (I take the wrong exit due to distraction or unclear instructions from the navigation system) | Scale (Likert), [1-5] | behavior\_wrong\_turns |
| Indicate how often the following negative effects occur on your driving behavior as a result of distraction caused by your navigation system. (I make mistakes in operating the car due to distraction caused by the navigation system) | Scale (Likert), [1-5] | behavior\_operating\_errors |
| Below is a statement. How often does this happen on a scale of 1 to 5? The navigation system provides unhelpful information and/or instructions. | Scale (Likert), [1-5] | bad\_instructions |
| (If you indicate that your navigation system occasionally provides unhelpful information/instructions) Can you give a few examples in your own words? (Example 1 of bad information/instructions) | Text | bad\_instructions\_example\_1 |
| (If you indicate that your navigation system occasionally provides unhelpful information/instructions) Can you give a few examples in your own words? (Example 2 of bad information/instructions) | Text | bad\_instructions\_example\_2 |
| (If you indicate that your navigation system occasionally provides unhelpful information/instructions) Can you give a few examples in your own words? (Example 3 of bad information/instructions) | Text | bad\_instructions\_example\_3 |
| (If you indicate that your navigation system occasionally provides unhelpful information/instructions) Can you give a few examples in your own words? (Example 4 of bad information/instructions) | Text | bad\_instructions\_example\_4 |
| (If you indicate that your navigation system occasionally provides unhelpful information/instructions) Can you give a few examples in your own words? (Example 5 of bad information/instructions) | Text | bad\_instructions\_example\_5 |
| Below is a statement. How often does this happen on a scale of 1 to 5? The navigation system gets interrupted when I need it while driving. | Scale (Likert), [1-5] | interruptions |
| (If you indicate that your navigation system is sometimes interrupted when you try to use it). Could you give a few examples in your own words? (Example 1 of disruptive interruption) | Text | interruptions\_example\_1 |
| (If you indicate that your navigation system is sometimes interrupted when you try to use it). Could you give a few examples in your own words? (Example 2 of disruptive interruption) | Text | interruptions\_example\_2 |
| (If you indicate that your navigation system is sometimes interrupted when you try to use it). Could you give a few examples in your own words? (Example 3 of disruptive interruption) | Text | interruptions\_example\_3 |
| (If you indicate that your navigation system is sometimes interrupted when you try to use it). Could you give a few examples in your own words? (Example 4 of disruptive interruption) | Text | interruptions\_example\_4 |
| (If you indicate that your navigation system is sometimes interrupted when you try to use it). Could you give a few examples in your own words? (Example 5 of disruptive interruption) | Text | interruptions\_example\_5 |
| According to you, what could potentially be changed in the design of the navigation system you use the most to ensure it has fewer negative effects on your driving behavior? | Text | desired\_design\_changes |
| Are there any other relevant issues you would like to mention about this topic? | Text | further\_remarks |
| Are you open to participating in further research? If yes, could you please provide your email address so that we can contact you? | Text, [email address] | participate\_follow\_up |
| Participant ID | Text | participant\_id |
| Started | Timestamp | started |
| Completed | Timestamp | completed |
| Time spent (HH:MM:SS.SSS) | Timestamp | time\_spent |
| External ID | String | external\_id |