

FRAV Survey on External Light-Signaling for ADS Vehicles

This survey concerns FRAV discussions on external light-signaling specifications for ADS vehicles. The responses will support the work of the Other Road User (ORU) Safety workstream under FRAV. Experts are requested to return the completed survey with any additional comments by **10 May** to:

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Contact Information

Name:

Organization:

Email:

Telephone:

1. Are there any safety needs to inform ORU when the ADS is operating the vehicle? (Yes/No)

If no, please explain.

If yes, please respond to the following questions:

- 1.1. What would be the safety benefits in providing this information?

- 1.2. Are there any safety risks that should be considered in establishing a requirement?

- 1.3. In what form(s) might the information be provided?

- 1.4. Might the form differ across ADS configurations or be limited to specific ADS configurations (for example, driverless vehicles, ADS designed for use with a fallback user)?

- 1.5. Should the operational status be communicated to all ORU? (Yes/No) *If no, please indicate the ORU who should be provided with the operational status information.*

2. Should ADS vehicles be required to inform ORU via an external light signal when the ADS is operating the vehicle? (Yes/No)

If no, please explain.

If yes, please respond to the following questions.

- 2.1. From which ORU locations should the signal be visible (vehicle front/side/rear, following/oncoming in opposite direction, at what distance, etc.)?

- 2.2. How conspicuous should the signal be (light intensity, visibility, demands ORU attention or visible if ORU knows to look for it, etc.)?

- 2.3. Pursuant to question 1.4., would the light-signal requirement apply to all or to specific ADS configurations?

- 2.4. Pursuant to question 1.3., should the signal be limited to a light signal or could a light signal be one of several permissible means (options) for fulfilling a requirement to inform ORU of the operational status of the ADS?

3. Are there other aspects of lighting (road illumination, direction indication, conspicuity) where requirements for ADS vehicles might differ from current requirements for conventional vehicles?

