Informal document GRVA-22-28
22nd GRVA, 24 June 2025
For review at the Bangkok meeting,
hosted during the Road Safety week,
2-5 June 2025 (ESCAP/UNCC)
Provisional agenda item 4(a)

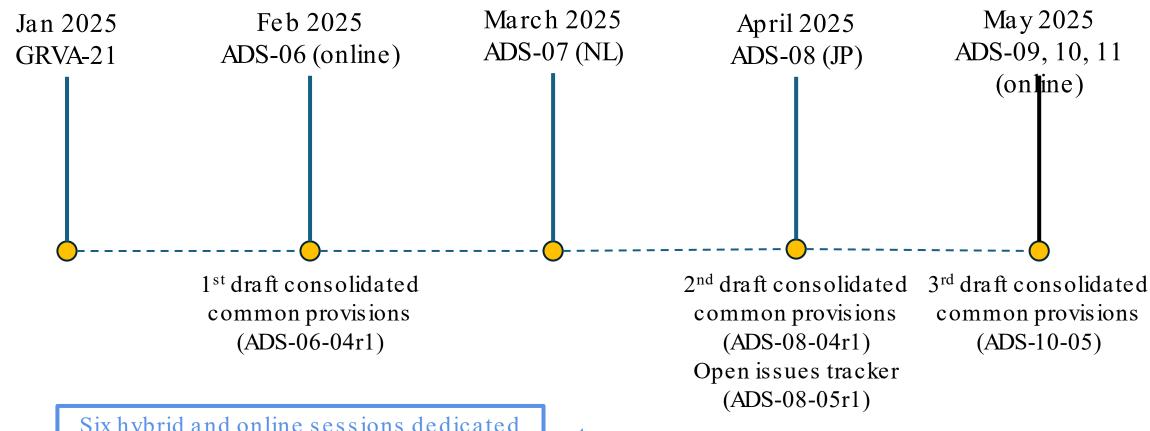
### ADS IWG Status Report

Report to GRVA





#### Progress since GRVA last January



Six hybrid and online sessions dedicated to "common provisions" applicable to both a GTR and a UN Regulation.

GRVA ADS Workshops | EDR/DSSAD IWG | FADS/AVRS/AVSR | AVC...

Liaison with other WP.29 IWG and task forces



#### ADS Overview of common provisions (ADS-10-05)

Document ADS-10-05 10<sup>th</sup> ADS IWG session 23 May 2025

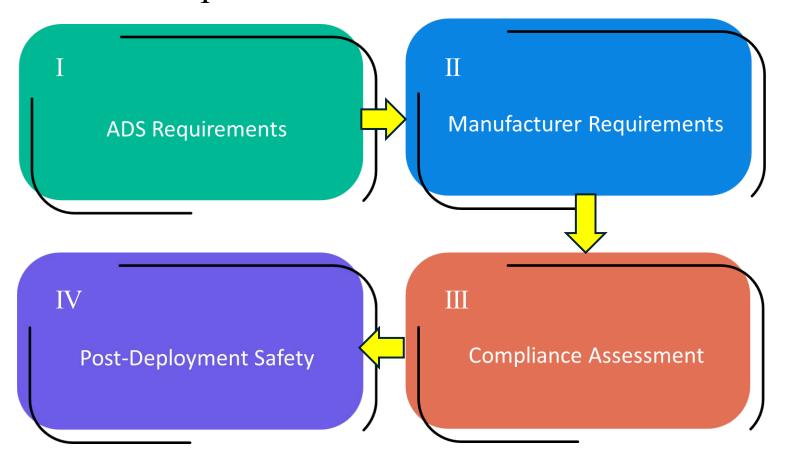
#### Consolidated Draft of Common Provisions on ADS Safety

(Version 1.5: 23 May 2025)

This document consolidates the ADS IWG work up to and including the 8th meeting in Tokyo in April 2025. This consolidated document will act as the base document going forward until separated into a draft GTR and a draft UNR (currently foreseen for the July ADS IWG meeting). Where text appears in two columns, the left and right columns present GTR and UNR variants, respectively, of the same provision.

| Contonto |   |
|----------|---|
| 1.       | Purpose   |
| 2.       | Scope#  |
| 3.       | Definitions#  |
| 4.       | General Requirements#   |
| 5.       | ADS Requirements#   |
| 5.1.     | Performance of the DDT#   |
| 5.2.     | Safety of ADS User Interactions with the ADS#                           |
| 5.3.     | Other Requirements#   |
| 6.       | Manufacturer Requirements#  |
| 6.1.     | Safety Management System#   |
| 6.2.     | Testing of the ADS#   |
| 6.3.     | Safety Case for the ADS#  |
| 6.4.     | Post-Deployment Safety#   |
| 7.       | Compliance Assessment#  |
| 7.1.     | Audit of the Safety Management System#                                  |
| 7.2.     | ADS Testing Credibility Assessment#                                     |
| 7.3.     | Assessment of the Safety Case for the ADS#                              |
| 7.4.     | Post-Deployment Safety Assessment#                                      |
| Annexes  |   |
| Annex 1. | List of Reportable Occurrences by Reporting Type                        |
| Annex 2. | In-Service Reporting Template: Short-term Reporting                     |
| Annex 3. | In-Service Reporting Template: Periodic Reporting                       |
| Annex 4. | Threshold Definitions   |
| Annex 5. | ODD-based Behavioural Competencies and Scenario Identification Approach |
| Annex 6. | Use-case for Nominal, Critical, and Failure Situation Mapping           |

#### Main Components of the Common Provisions





#### Overview of common provisions (ADS-10-05)

I ADS Requirements

High-level requirements applied depending on ADS use case:

- DDTperformance across nominal, critical, and failure traffic scenarios (§5.1.)
- Safety of Interactions between ADS and ADS vehicle users (§5.2.)
- Other safety requirements (in-service, cyber security, software updates, DSSAD) (§5.3.)

II
Manufacturer Requirements

Requirements for manufacturer validation of an ADS:

- Safety Management System (§6.1.)
- Testing Environments (§6.2.)
- Safety Case (§6.3.)

Compliance Assessment

Assessment of manufacturer's validation against requirements:

- Safety Management System Audit (§7.1.)
- Testing Credibility Assessment (§7.2.)
- Safety Case Assessment (§7.3.)

IV

Post-Deployment Safety

Assess manufacturer capabilities based on in-service monitoring and reporting requirements:

- Safety monitoring
- Remedial actions if needed
- Short and periodic performance reporting

§6.4

§7.4.



#### ADS II. Manufacturer requirements



Minimum requirements for the manufacturer's safety management system (§6.1)

A Safety Management System (SMS) is a systematic approach to managing safety.

- Organisational safety policies, principles and culture
- Processes for risk management and ADS design and development
- Personnel competencies



Minimum requirements for credible testing environments (§6.2)

Ensure that the physical test environments and toolchains (e.g. virtual testing toolchains) are appropriate for their use.



Minimum requirements for providing a valid ADS safety case (§6.3)

Structured presentation of claims supported by SMS and testing outcomes that the ADS meets or exceeds the requirements of the regulation and is free from unreasonable risks to the ADS vehicle user(s) and other road users.



Minimum requirements for in-service monitoring (§6.1) and reporting (§6.4)

Establishes minimum requirements for capabilities to monitor the performance of ADS in use and establishes requirements for reporting on ADS safety performance.



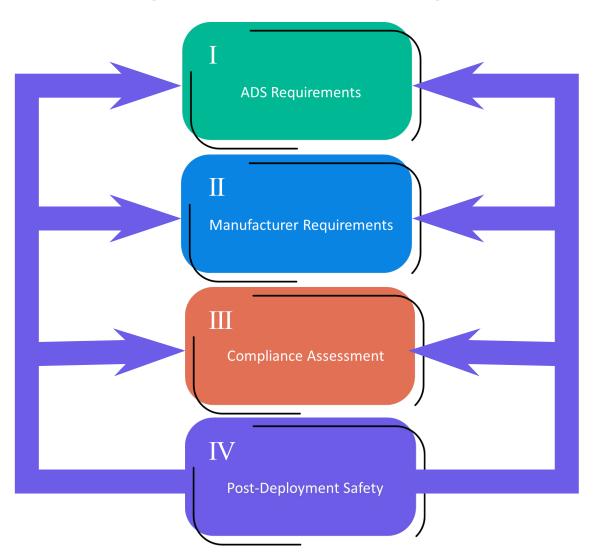
# ADS III. Compliance assessments

| ( ) | Audit the Safety Management System (§7.1) | Verify compliance with SMS requirements. As ingle SMS may cover multiple ADS. Periodic certification anticipated   |
|-----|---|--|
| × × | Assess test environment (§7.2)            | Verify the credibility of the manufacturer's ADS testing organisation and management, including application of SMS outcomes to ensure effective testing of the ADS.                    |
|     | Assess safety case (§7.3)                 | Assess the ADS safety concept and the claims, arguments, and evidence for its effectiveness against the ADS safety requirements and mitigation of safety risks identified per the SMS. |
|     | Perform confirmatory testing (§7.3)       | Verify claims for behavioural competencies made in the safety case by selectively reproducing testing used to generate the evidence for those claims.                                  |



#### ADS IV. Post-deployment safety

Capabilities to monitor ADS performance and comply with reporting requirements verified as part of initial ADS assessment

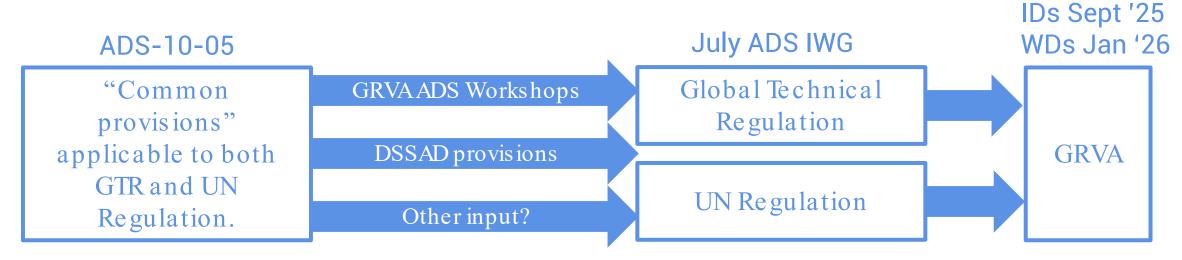


In-service monitoring and reporting provides feedbackto assess effectiveness and support improvements

"pre-approval"

"post-approval"





- ADS IWG finalising common provisions.
- Input from GRVA workshops: awaiting further input.
- Input from EDR/DSSAD IWG: review of DSSAD guidance document and coordination ongoing. GRVA feedback on expected integration outcome.
- Developing documents for GTR and UNR.

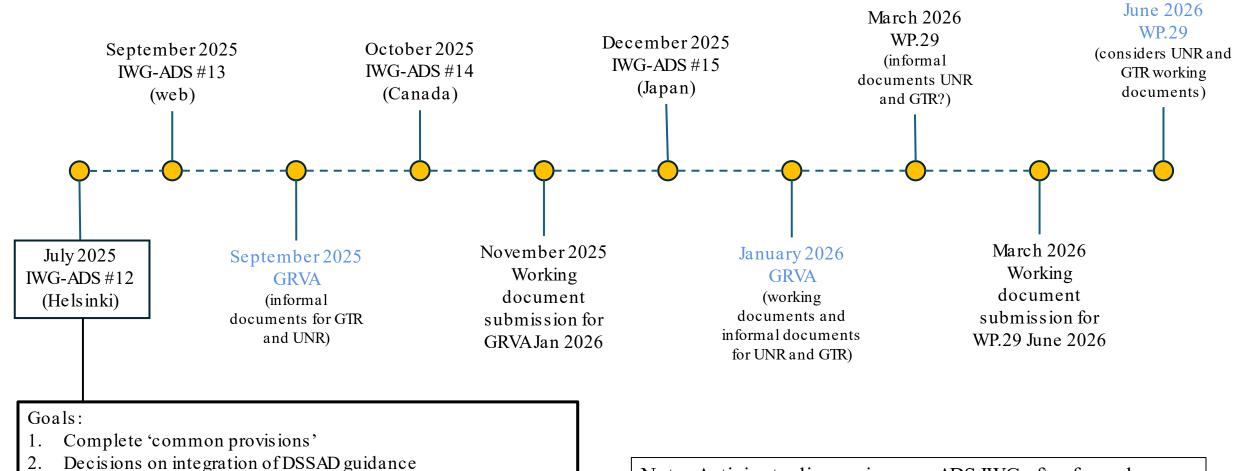


#### ADS Plan going forward

GTR and UNR integration document (structure and content

GRVA workshops, and DSSAD guidance.

placement for common provisions, deliverables 1 and 2 from



Note: Anticipate discussions on ADS IWG after formal submissions in early November 2025 (e.g., further work, terms of reference).

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## Thank you

