

# DRAFT SG4 AMENDMENTS TO NATM GUIDELINES

**14<sup>th</sup> VMAD SG Meeting**  
26 October 2022



**UNECE**

## Draft Amendments to the NATM Guidelines

- Incorporates UK Comments (VMAD-27-04)
- Review of consistency between Annexes of the NATM Master Document and the NATM Guidelines
- Concern only linguistic changes

Merely align the text with previously agreed upon text.

# UK Comments (VMAD-27-04)



Several UK comments could affect content of the NATM guidelines  
*Therefore not yet included in the draft amendments (SG4-14-02)*

Proposed approach:

- 14<sup>th</sup> SG4 Meeting: Discussion of proposed amendments with a view of seeking preliminary agreement
- Review period until 15<sup>th</sup> SG4 Meeting (9 November 2022)

# UK Comments (1/6)



## **Track Testing - A. How the pillar interacts with other pillars**

### Original text

47. It is recommended that information generated during the track-test be used as additional data to validate the virtual tests by comparing an ADS' performance **within** a virtual test with its performance on a test track **when executing the same scenario**.

### UK Comment

47. It is recommended that information generated during the track-test be used as **additional** data to validate the virtual tests by comparing an ADS' performance **between** a virtual test and a track test **on the same scenario**.

# UK Comments (2/6)



## **Track Testing - A. How the pillar interacts with other pillars**

### Original text

47. It is recommended that information generated during the track-test be used as additional data to validate the virtual tests by comparing an ADS' performance within a virtual test with its performance on a test track when executing the same scenario. **For instance, track testing can be used as an additional tool/method to validate the quality/reliability of the virtual toolchain by comparing an ADS' performance within a virtual test with its performance on a test track when executing the same scenarios.** However, it is important to keep in mind the limitations described in the NATM Master Document.

### UK Comment

Isn't this duplication rather than an example? Performance is a catch all for any of the test.

# UK Comments (2/6)



## Track Testing - A. How the pillar interacts with other pillars

### Original text

47. It is recommended that information generated during the track-test be used as additional data to validate the virtual tests by comparing an ADS' performance within a virtual test with its performance on a test track when executing the same scenario. **For instance, track testing can be used as an additional tool/method to validate the quality/reliability of the virtual toolchain by comparing an ADS' performance within a virtual test with its performance on a test track when executing the same scenarios.** However, it is important to keep in mind the limitations described in the NATM Master Document.

### UK Comment

Isn't this duplication rather than an example? Performance is a catch all for any of the test.

# UK Comments (3/6)



## **Real World Testing**

### Original text & proposed amendment

*See document VMAD-SG4-14-04*

### UK comment

*Should recommendations be in a list rather than separate paragraphs to make hem easier to “spot”.*

### SG4 leadership comment

*Would also align the structure of the parts with the parts on audits and simulation.*

# UK Comments (4/6)



## Real World Testing

### Original text & proposed amendment

54. Specific infractions identified during real-world testing may be reviewed and/or assessed by evaluating the data gathered during the original test and any data gathered during additional virtual, track and real-world testing.

### UK comment

54. Specific **safety requirement** infractions identified during real-world testing may be reviewed and/or assessed by evaluating the data gathered during ~~the original~~ **that** test and any data gathered during additional virtual, track and real-world testing.



# UK Comments (5/6)



## **Real World Testing - A. How the pillar interacts with other pillars**

### Original text & proposed amendment

55. Data generated during real-world testing may be used as additional data to validate whether portions of a virtual and/or track-testing environment were modelled properly by comparing an ADS' performance within a simulation and track test with its performance in a real-world environment when executing the same test scenario.

### UK comment

55. Data generated during real-world testing may be used as **additional** data to validate whether portions of a virtual and/or track-testing environment were modelled properly by comparing an ADS' performance within a simulation and or track test with its performance in a real-world environment when executing the same test scenario.

# UK Comments (6/6)



## **Real World Testing - A. How the pillar interacts with other pillars**

### Original text & proposed amendment

57. The information gathered from real world testing may also support improvements in the hazard and risk analysis and design of the ADS systems.

### UK comment

*Is this relevant to the activities of testing?*