Wrap-up of the 9th VMAD IWG web-conference

Date: July 22, 2020

Time: 13:00 – 15:30 (CEST)

**Participants**: Co-chairs/Ca, NL, J.

**Canada**/TC, **China**/CATARC, **EU**/EC, JRC, Finland/T&C Agency,

**France**/UTAC, **Germany**/BMVI,BASt, **Japan**/MLIT, NTSEL, JASIC,

**Korea**/KATRI, **the Netherlands**/RDW, **the Russian Federation**/NAMI,

**Singapore**/LTA, **UK**/Mclaren, **USA**/NHTSA

AAPC, CIECA, CLEPA, EGEA, ETSC, OICA, SAE, SAFE

(Total: around 50 participants)

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* Co-chair/NL chaired the meeting.
* VMAD-IWG agreed on the following action items.

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| Agenda item | Action items |
| 5. SG2b Compilation Document  VMAD-08-07-rev.1 | **Action item 1:** SG2b will resume its activities in late August and further elaborate Compilation Document. (Co-chair mentioned the necessity to advance the date of the next SG2b meeting.) |
| 6. Interaction between New Assessment Test Methods  VMAD-08-03 | **Agreement 2:** The following comments/ questions raised during the meeting will be considered by CLEPA-led voluntary group and SGs(\*1).  - The interaction between the pillars and functional requirement should be considered (\*2).  - Should elaborate on what 'expert scenarios' are.  - Need to describe in more detail how one assessment method could support another - especially when there may be a failure case. (failure in test track test can be further evaluated through virtual tests)  - Should be more specific about the test method order (which may have an impact on the order of functional requirements being assessed).  - Should further elaborate the overall purpose of the NATM.  - Should be clearer that if a functional requirement is fully assessed by a specific test method, then there is no need to reassess by another method.  - In-use monitoring data could also include more positive data - related to accidents avoided etc. currently it references data related to near misses and critical situations. Positive data could be useful to support public acceptance of ADS (Dutch Safety Council presentation @GRVA)  - It would be beneficial to set a clear minimum performance for the aggregated results provided by the test methods. |
| 8．FRAV and VMAD document consistency  VMAD-09-03 | **Common observation:** Only f. “System safety” and d. “OEDR” are mentioned for VMAD IWG task in the Framework document. However, it can be understood that item f. can cover all necessary elements for VMAD IWG including HMI. |
| 10. Future meeting | - August 7 (Friday): the 10th VMAD IWG web-conference focusing on “Scenario”  - August 28 (Friday): the 11th VMAD IWG web-conference focusing on “Virtual testing”  - September 9 (Wednesday) and 10 (Thursday): the 12th VMAD IWG web-conference focusing on “Track testing, Real-world testing, Audit, and NATM Integration”  - October 9 (Friday): the 13th VMAD IWG web-conference for Master Document Update |

Note from Co-chairs:

(\*1) The comments to the annex of VMAD-08-03 would be considered by responsible SGs.

(\*2) At this stage SGs should focus on high-level general descriptions including definitions, high-level description, strengths and weaknesses, etc. of each pillar/element (report of VMAD #8). First, we work on (define, etc.) each pillar/element (Activity 1), then together with functional requirements developed by FRAV, we consider which and how test method is used to each functional requirement (Activity 2). This is partly because the functional requirements being assessed will have an impact on what test method is used (VMAD-08-03). With this understanding;

(a) we will be engaged in the Activity 1 until September,

(b) the result of the Activity 1 would be fed into the first part of the Master Document (result of VMAD10 on scenarios will mainly be fed into section 5 of the Master Document, that of VMAD11 on virtual testing into section 6, those of VMAD12 on Track testing, Real-world Testing, Audit & NATM Integration into section 7, 8, 9, 4 respectively), and

(c) the Activity 2 will start after September GRVA and the result of the Activity 2 will mainly be fed into section 10 of the Master Document.