

Status report

‘Sub group 2’: Real world road test

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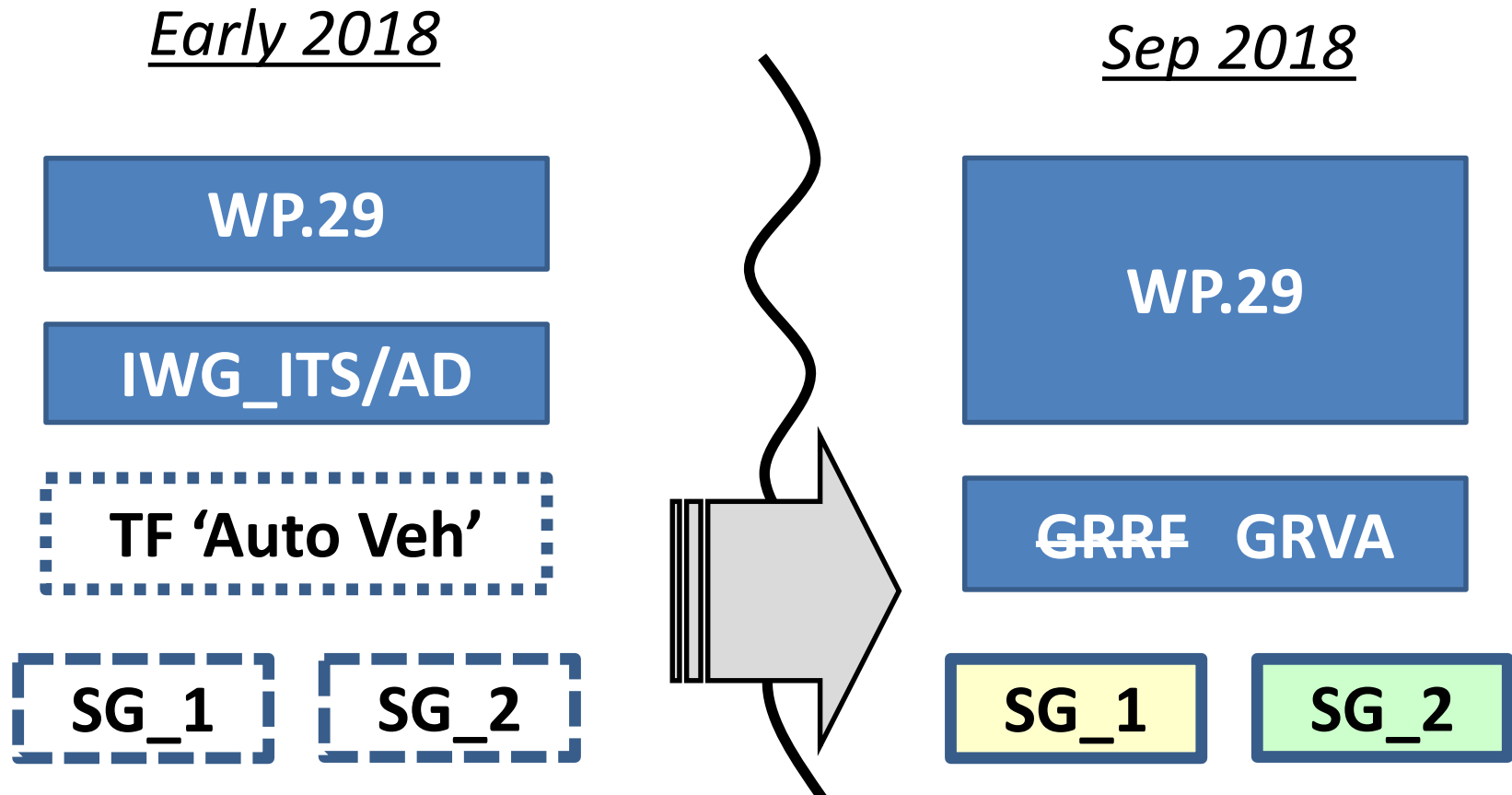
Geneva, September 2018

Content

- Background 'Sub group 2'
- Timeline
- Summary 2nd meeting
 - *ToR*
 - *AV driving behaviour measurement*
 - *AEBS on trucks*
- More information

Background

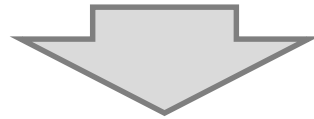
- How to test and assess the functionality of automated driving systems?



Timeline

In conjunction with Sub group_1:

- 1st meeting: The Hague, 4-5 June 2018
- 2nd meeting: Paris, 3-4 September 2018



- 3rd meeting: Niigata (Japan), 23-25 October 2018
- 4th meeting: Beijing, 14-15 January 2019 (to be confirmed)
- 5th meeting: Washington D.C., 1-3 April 2019

➤ *Mandate until December 2020*

Summary 2nd meeting

Terms of reference

- Approach based on three pillars:

Audit

Incl. simulation
Virtual testing

Test track

Assessment in a
controlled
environment

Real world

General testing

Sub group 1

Chair: Onoda-san

Secretary: Oshita-san

Sub group 2

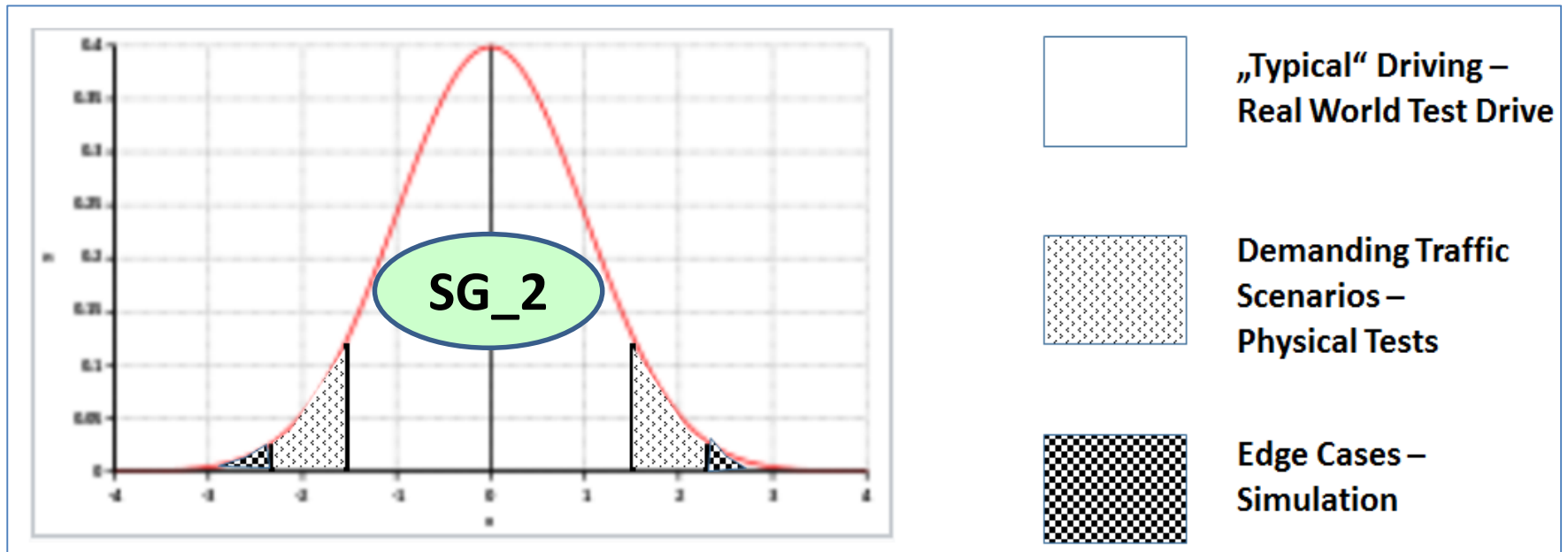
Chair: P. Striekwold

Secretary: W. Gouse

Summary 2nd meeting

Terms of reference – cont.

- Testing coverage:



Summary 2nd meeting

Terms of reference – cont.

- As part of the ‘3 pillar approach’, to *(Cat M, N on L3 – 5)* :
 - *Develop real world road tests to assess automated systems in order to ensure road safety*
 - *Demonstrate system compliance with traffic laws*
 - Develop requirements based on test scenarios
 - Focus on urban traffic and motorway/highway traffic
 - Consideration on ISC measures during the vehicle’s life
- *Implementation to be decided by WP.29 (Regulation, GTR, guideline or best practice)*

Summary 2nd meeting

Presentations

1. AV driving behaviour measurement (*McLaren/Meridian*)
 - Driving a vehicle on the public road requires ‘perception’, ‘planning’ and ‘command’. Perception is the most difficult, human behaviour is not a mechanical system
 - Human examiner is well equipped to spot the unusual but not good at monitoring a list of items
2. AEBS on trucks (Dutch ‘*Rijkswaterstaat*’)
 - Test results of trucks approaching road work barriers, appealing to the relevance of real world road tests

More information

- ToR: informal document GRVA-01-11
- Wiki: <https://wiki.unece.org/display/trans/SG-2+Real+World+Test+Drive>

- **Chair:** Peter Striekwold (RDW, Netherlands)
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- **Secretary:** Bill Gouse (SAE, US)
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