

**New proposal of Close-proximity Field of vision
for Vehicle moving off from standstill (M1, N1).**

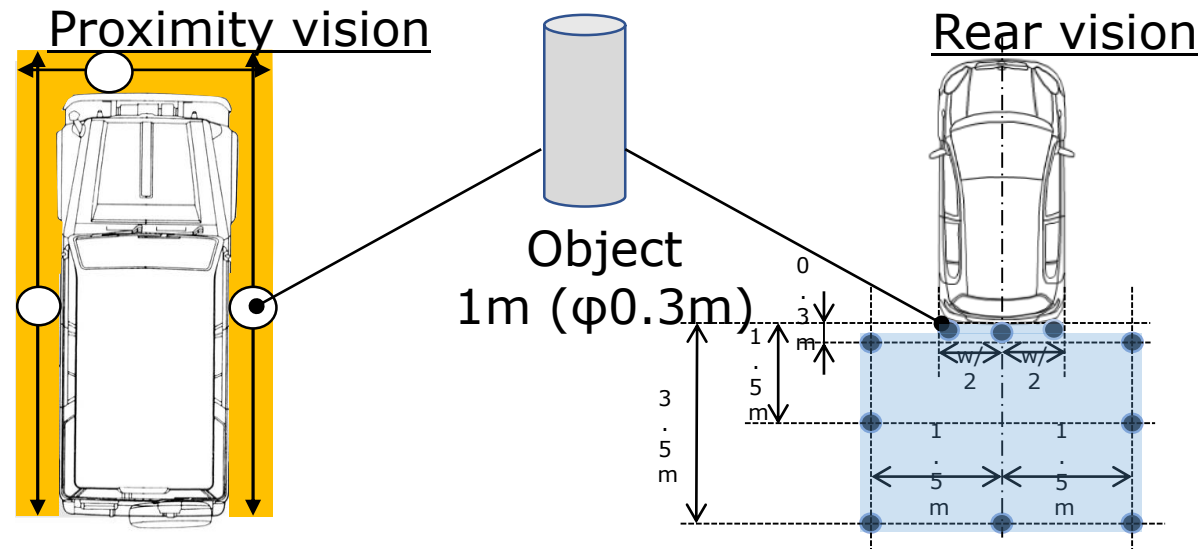
JAPAN.

Background

According to the accident analysis in Japan, there are many accidents involving VRU, and countermeasures are strongly required.

The close-proximity field of vision was originally proposed to GRSG with reversing field of vision until 2016.

Regarding the priority for reversing safety, requirements were separated and focused on reversing.



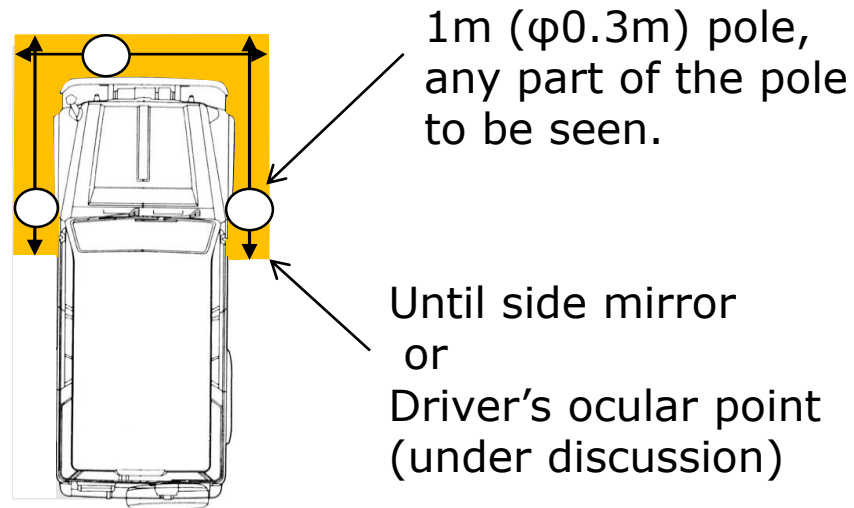
Proposed field of vision in GRSG-110-10 (2016)

Proposal

New regulation for close-proximity safety when the vehicle moving off.

To propose vehicle close-proximity field of vision in order to prevent accidents when the vehicle moving off by driver awareness.

* Japan think 1st priority is increasing driver's awareness.



Technology neutral and Multi-modal approach:
Direct vision, Indirect vision (camera, mirrors), Detection.

Scope: M1, N1

Schedule

Past proposals

~2016 GRSG

Sep., 2019 VRU-Proxi #11 Concept and draft proposal

Nov., 2019 VRU-Proxi #12 Schedule proposal

Feb., 2020 VRU-Proxi #13 Accident data presentation

Sep., 2020 VRU-Proxi #15 Concept proposal (Now)

Nov., 2020 VRU-Proxi #16 Draft proposal and discussion #1

Feb., 2021 VRU-Proxi #17 Draft proposal and discussion #2

Jun., 2021 VRU-Proxi #18 Working document finalization

July., 2021 WD Submission to 121th GRSG

Oct., 2021 121th GRSG Proposal and adoption to WP29

System requirements can be communized with the reversing regulation or UN-R46.

Thank you for your attentions.