2020 Roadmap

Deployment Phase	Day 1 – Awareness Driving	Day 2 – Sensing Driving	Day 3+ – Cooperative Driving
Sample Use cases	• **Warning applications** (e.g. collision avoidance) • **Information from infra** (e.g. road/intersection signage)	• **Advanced warnings** • **VRU protection** (e.g. pedestrian, PTWs, +infra support) • **Semi-automated driving** (e.g. Coop. emergency brake assistance, Coop. ACC) • **Cooperation with traffic light controllers**	• **Cooperative automated driving** (CACC-strings, cooperative lane merging) • **Cooperation with Infra for automated driving** (intersection crossing, assisted transition of control)
Communication Services	• **CAMs, DENMs** (status, dynamics & notificatons) • **SPAT/MAPs, IVIs** (static & dinamic signage)	• **Extended CAMs, DENMs** (e.g. for PTW, ASIL qualifiers) • **CPMs** (detected objetcts) • **RTCMEM** (position corrections) • **SSREMs, SSEMs** (priority, preemption)	• **Extended CAMs** (e.g. supported AD level, planned maneuvers/routes,...) • **Extended IVIs** (e.g. signage for automated driving,...) • **MCMs + extensions** (planned/desired trajectories, infra-support) • **VAMs** (dedicated VRUs awareness)
Supporting functionalities	• **Security support** (use of EU CCMS)	• **Functional safety support** (e.g. Certification of ASIL qualifiers for tx data) • **Misbehavior detection** • **Improved positioning support** (e.g. GP corrections from infra)	• **Automated coordination** (e.g. Objective Matching, AD coordination rules)

Accident free road transport

Optimal Traffic Flow

Support from risks & info dissemination to coordinated automation

Improvement of exchanged information

- Trustworthiness (for functional safety)
- Accuracy (Position and Time)
- Timeliness (update frequency)

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