International Collaboration on Dynamic Map

ISO Activities

✓ **Contribute mainly for ISO/TC204/WG3 (ITS geographic data) .**

ISO17572-1:Intelligent transport systems (ITS) — Location referencing for geographic databases — Part 1: General requirements and conceptual model

ISO17572-4:Intelligent transport systems (ITS) — Location referencing for geographic databases — Part 4: Precise relative location references (precise relative profile)

ISO20524-1:Intelligent transport systems — Geographic Data Files (GDF) GDF5.1 — Part 1: Application independent map data shared between multiple sources

ISO20524-2:Intelligent transport systems — Geographic Data Files (GDF) GDF5.1 — Part 2: Map data used in automated driving systems, Cooperative ITS, and multi-modal transport

TS22726-1:Intelligent transport systems — Dynamic data and map database specification for connected and automated driving system applications — Part 1: Architecture and logical data model for harmonization of static map data

TS22726-2:Intelligent transport systems — Dynamic data and map database specification for connected and automated driving system applications — Part 2: Logical data model of dynamic data
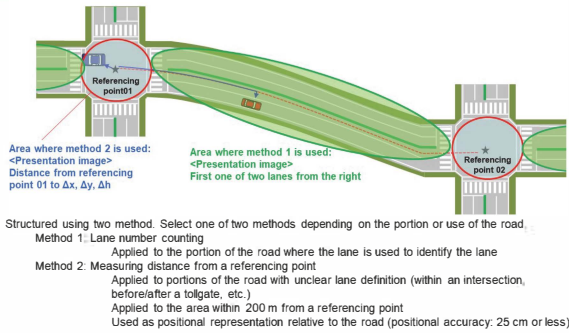

Area where method 2 is used: <Presentation image> Distance from referencing point 01 to Δx, Δy, Δh

Area where method 1 is used: <Presentation image> First one of two lanes from the right

Structured using two method. Select one of two methods depending on the portion or use of the road.
Method 1: Lane number counting
    Applied to the portion of the road where the lane is used to identify the lane
Method 2: Measuring distance from a referencing point
    Applied to portions of the road with unclear lane definition (within an intersection, before/after a tollgate, etc.)
    Applied to the area within 200 m from a referencing point
    Used as positional representation relative to the road (positional accuracy: 25 cm or less)

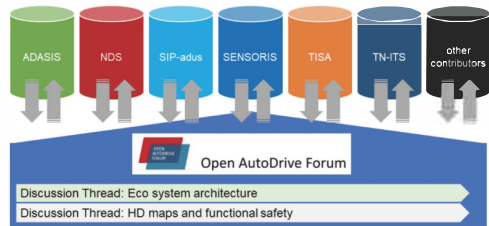**Figure. ISO17572-4:Precise relative location referencing method**

OADF: Open Auto Drive Forum

✓ **Participate as a committee member.**

ADASIS:Advanced Driver Assistance Systems Interface Specifications
NDS:Navigation Data Standard
SENSORIS:Sensor Interface Specification
TISA:Traveller Information Services Association
TN-ITS:Transport Network – Intelligent Transport Systems

- OADF generates **input for standardization** and aligns the results towards **industry wide acceptance** and **state of the art solutions**

ADASIS | NDS | SIP-adus | SENSORIS | TISA | TN-ITS | other contributors

Open AutoDrive Forum

Discussion Thread: Eco system architecture
Discussion Thread: HD maps and functional safety

EU-US-Japan Automation on Road Transport WG

✓ **Participate as a co-chair for Physical and Digital Infrastructure group**

EU-US-Japan Automation on Road Transport WG is lead by govornmental bodies on three regions.
Several sub-groups are working.
Phisical and digital infrastructure group is working as an information sharing group.

[Sub-group/ Information sharing group]

ART WG
- Human Factors
- Road worthiness Testing
- Impact Assessment
- Physical and Digital Infrastructure
- Next-Generation Transport