

# **Session: Dynamic Map**

**Dynamic and integrated database of road network and surroundings**

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**Moderator: Jun Shibata,**

**Japan Digital Road Map Association**



# Dynamic Map (1)

- **Idea of Dynamic Map (DM) is based on integration of multiple Local Dynamic Maps (LDMs) at Central ITS Station or DM Center**

# Example of Dynamic Map Center

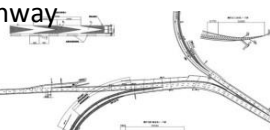

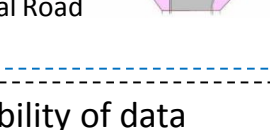
## Data Source

### Dynamic Data

- ✓ Traffic Jam
- ✓ Traffic Accident
- ✓ Road Condition
- ✓ Signal and Sign
- ✓ Traffic Restrictions
- ✓ ...

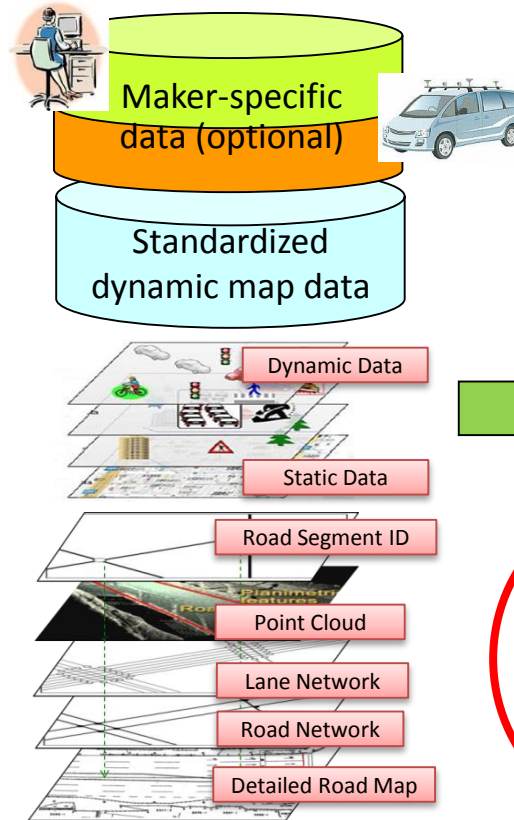
National/local government,  
Police, Road Companies

### Static Road Structure

- ✓ Highway 
- ✓ National Road 
- ✓ Local Road 

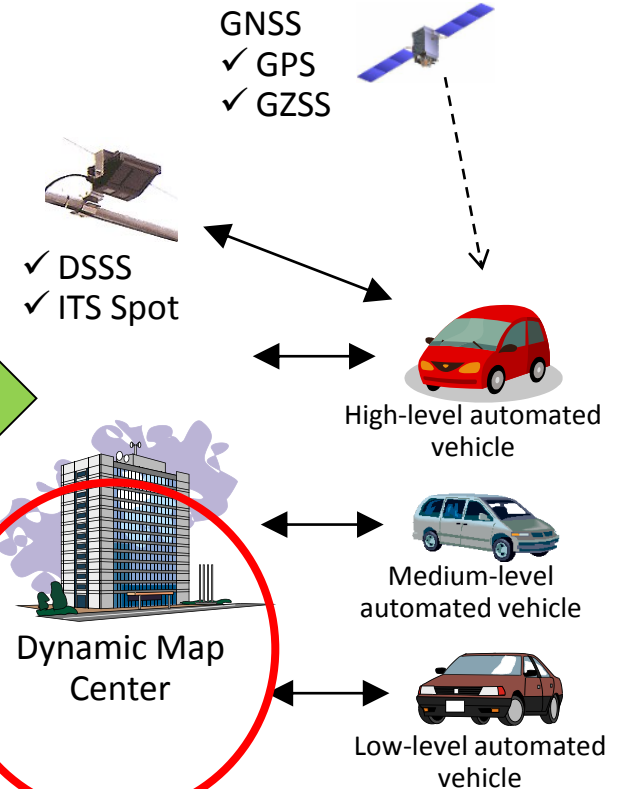
- Availability of data
- Precision, Reliability, Coverage
- Freshness, Real-time property
- Location reference
- Data format

## Data Structure



- Easy to store
- Easy to maintain
- Easy to access
- Standardization area

## Data Delivery



- Required data
- Use case
- Required precision, reliability, and freshness
- Separation of standardization and competition areas

## Dynamic Map (2)

- **While LDM was invented for C-ITS, DM will support Automated Driving Systems in addition to C-ITS and advanced road/traffic management systems with lane-level accuracy, 3D features including Lidar\* data, vehicle-sensor data, probe data, ...**

**\*Lidar=Laser Imaging Detection and Ranging**

**END**