SIP-adus Workshop 2020

# Research and Development of SIP Part.1

## FOTs in Tokyo waterfront area

FOTs for cooperative automated driving systems are testing under actual traffic environments with 29 participants from diverse sectors in Japan and other countries.

**Participants**

先進モビリティ, BOLDLY, BOSCH, 中部大学, Continental, DAIHATSU, epitomical, Field.auto, HINO, HONDA, JTEKT, 金沢大学, 名城大学, MITSUBISHI ELECTRIC, MITSUBISHI MOTORS, 名古屋大学, NISSAN, SAIKO, 損保ジャパン, SUBARU, SUZUKI, TierIV, TOYOTA, Valeo, VOLKSWAGEN

Alphabetical order, A total of 29 institutions

Period: Oct.2019 – Mar. 2021

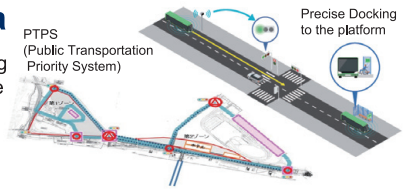
### Tokyo Waterfront City area (general road)

- ☐ Signal display and change timing information via ITS infrastructure
- ☐ HD 3D map linked with signal info. etc.

ITS infrastructure at over 30 point

### Haneda airport area

- ☐ Signal display and change timing information via ITS infrastructure
- ☐ Magnetic marker
- ☐ Bus stop, designated lane for Bus service

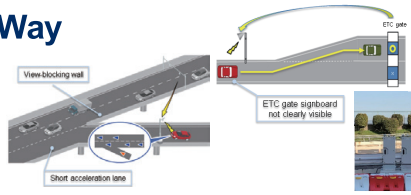



Magnetic marker

Dedicated bus lane

### Metropolitan Express Way

- ☐ Merging assistance on the main lane of highways
- ☐ ETC gate open/close info.
- ☐ Lane level traffic flow regulation info. etc.



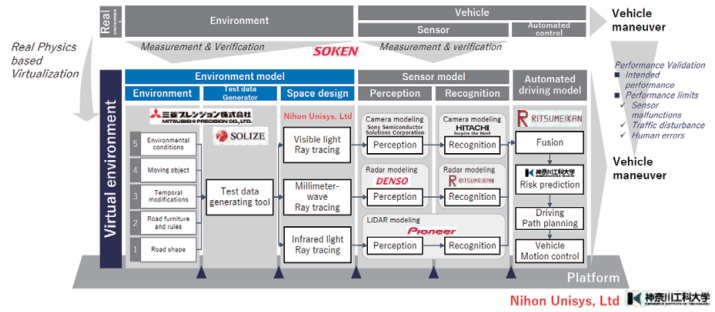

Roadside sensor

## Safety assurance in virtual space

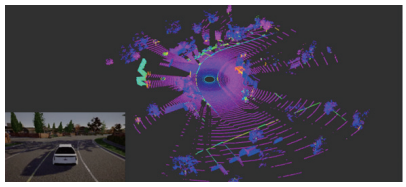
Developing Virtual Simulation contributes to Automated driving Safety assurance validation methodology

### DIVP® (Driving Intelligence Validation Platform)

**DIVP® project design**




**LiDAR simulation**



**Odaiba Virtual Community-ground**

- ☐ Highly consistent sensor modeling
- ☐ Sensing domain based approach
- ☐ Open Interfaces