

National Research Project on Automated Driving System SIP-adus ; Automated Driving System for universal service

Meeting with TransAID project, 7th April 2020



Society 5.0



Data convergence

Economic

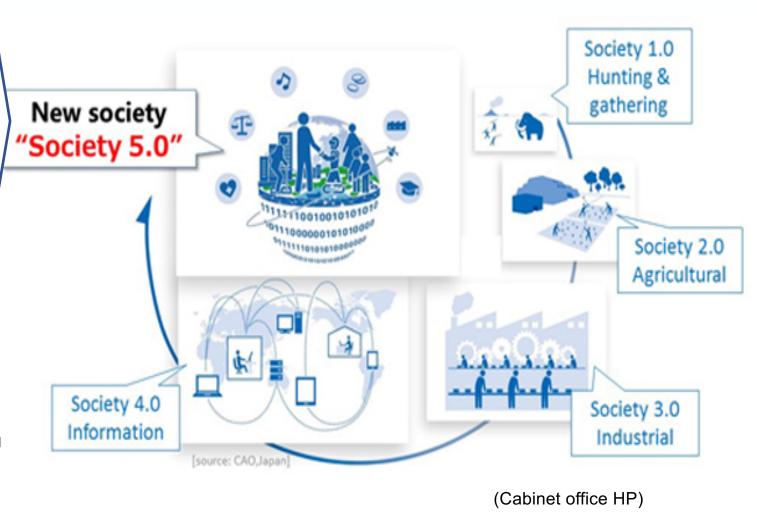
advancement

high degree of convergence between cyberspace (virtual space) and physical space (real space).



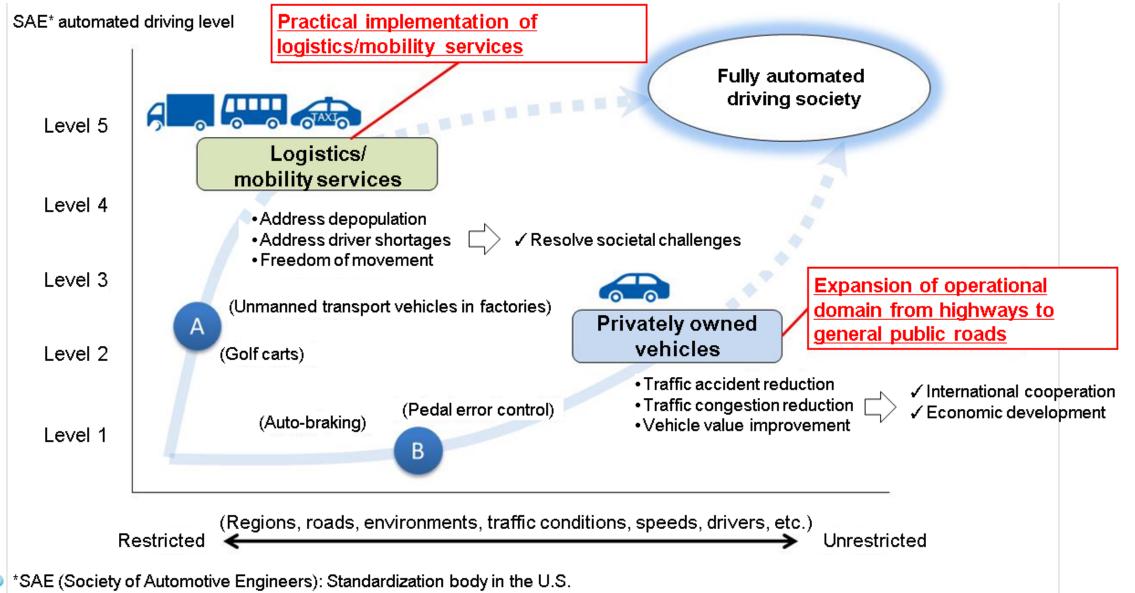
provision of products and services that are needed to the people that need them at the time they are needed

human-centered society in which anyone can enjoy a high quality of life full of vigor



Overview of 2nd Phase of SIP-adus



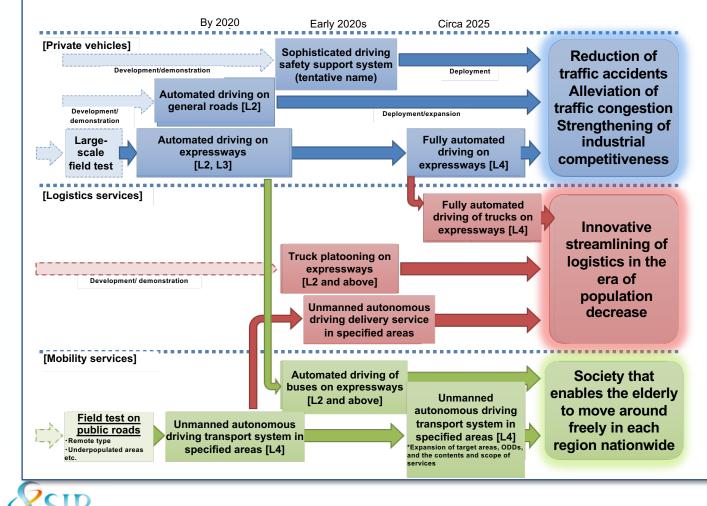


Objectives



Public-Private ITS Initiative/Roadmaps 2019

Scenario for the commercialization and service of fully automated driving by 2025

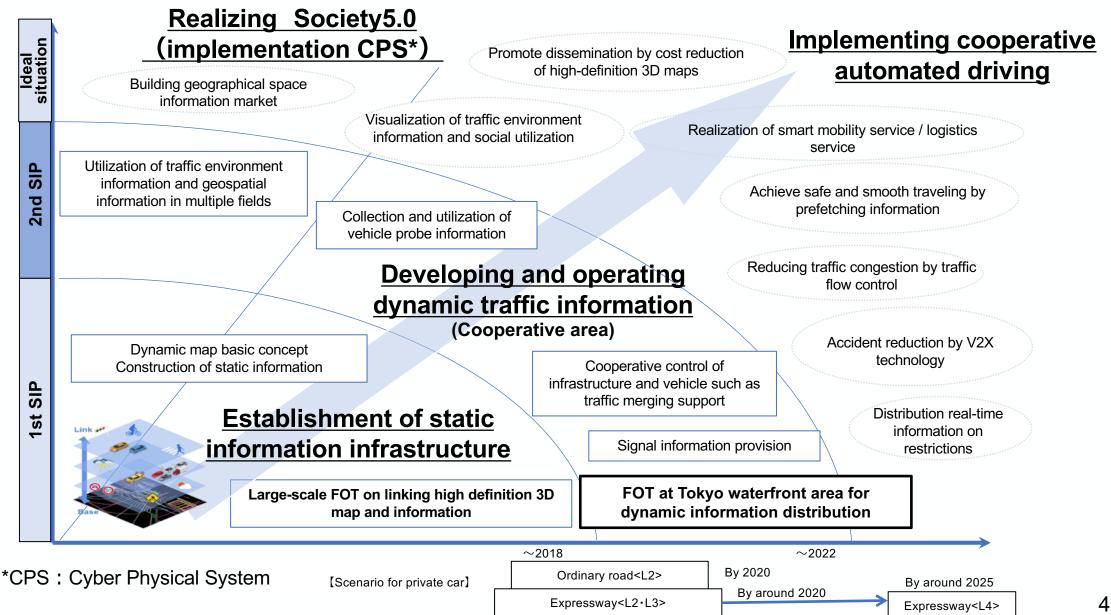




- To establish the **cooperative areas** technologies essential for implementation by 2023
- To create multiple example cases for commercialization through FOTs by involving various businesses and local government

Building the Traffic Environmental Info. Framework





Areas for the FOTs





Orange: Tokyo Waterfront City area Blue: Haneda Airport area Green: Metropolitan Expressway that connects Haneda Airport with the Tokyo Waterfront City area, etc.



Tokyo Waterfront City area

- An environment to provide traffic signal data from traffic signals (ITS roadside units)
- High-precision 3D maps linked with traffic signal data, etc.



Haneda Airport area

- An environment to provide traffic signal data from traffic signals (ITS roadside units)
- Routes with magnetic markers embedded
- Temporary bus stops
- Dedicated lanes, etc.



Metropolitan Expressway that connects Haneda Airport with the Tokyo Waterfront City area > An environment that provides merging assistance

- An environment that provides merging assistance information
- An environment that provides ETC gate data
- An environment that provides traffic congestion data for each lane, etc.

·High-precision 3D maps linked with traffic signal data

•On-board equipment to receive traffic signal data, merging assistance information and etc.

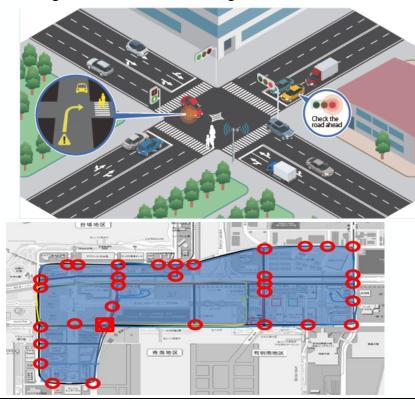
FOTs (Tokyo Waterfront Area)

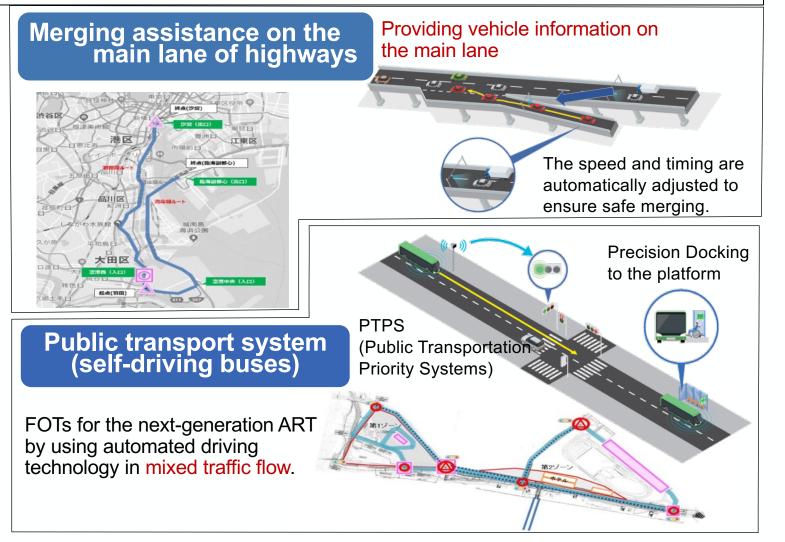


■ FOTs started in October 2019 in the Tokyo waterfront area (general roads and Metropolitan Expressway / Haneda area) with 29 participants widely



Providing the signal display and change timing information even in environments where recognition is difficult using in-vehicle cameras.





Participants of the FOTs



Total 29 entities including OEMs, suppliers, venture companies and universities with about 100 vehicles will participate in our FOT in Tokyo.



Alphabetical order. A total of 29 institutions

SIP-adus Workshop



SIP-adus Workshop 2019 November 12-14 @ Tokyo International Exchange Center

Regular annual international conference for Info. Sharing & discussion





Welcome Speech TAKEMOTO Naokazu Minister of State for Science and Technology Policy, Cabinet Office ,Japan



Breakout Workshop

SUDO Akira: Executive Director in charge of SIP/PRISM/ImPACT, CSTI, Cabinet Office, Japan
Harold W.Martin II: National Coordination Office for Space-Based Positioning, Navigation, and Timing, USA
Ludger Rogge: European Commission, Belgium
KUZUMAKI Seigo: SIP-adus Program Director, Cabinet Office, Japan

5 Anne-Marie Idrac: High Representative for Autonomous Driving Development Policy, France

Main themes of International Cooperation

Dynamic map

Connected Vehicle

Human Factors

Cybersecurity

Safety Assurance

Field Operational Test

Thank you