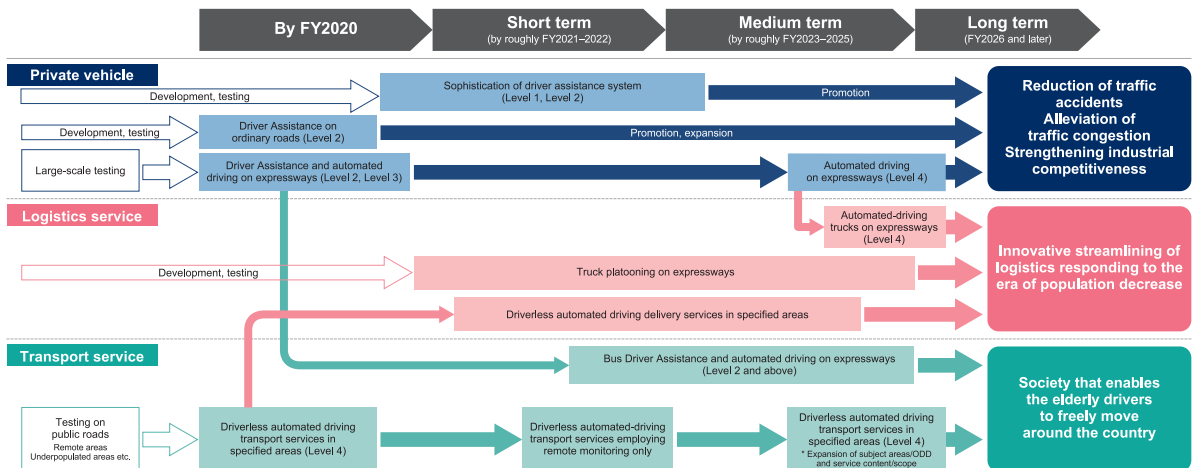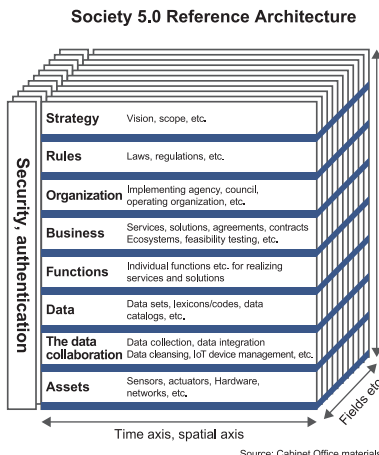# Public-Private ITS Initiative/ Roadmaps 2020

Overview

- Since it was formulated in 2014, the Public-Private ITS Initiative/Roadmaps has been updated each year based on the latest changes in circumstances affecting ITS and automated driving systems.
- The Public-Private ITS Initiative/Roadmaps 2020 provides a future vision incorporating automated driving for the rapidly advancing Mobility-as-a-Service (MaaS) and Smart city sector.

Scenario for Achieving Automated Driving

| By FY2020 | Short term (by roughly FY2021–2022) | Medium term (by roughly FY2023–2025) | Long term (FY2026 and later) |

Private vehicle
- Development, testing
- Sophistication of driver assistance system (Level 1, Level 2) — Promotion
- Development, testing — Driver Assistance on ordinary roads (Level 2) — Promotion, expansion
- Large-scale testing — Driver Assistance and automated driving on expressways (Level 2, Level 3) — Automated driving on expressways (Level 4)

Reduction of traffic accidents / Alleviation of traffic congestion / Strengthening industrial competitiveness

Logistics service
- Development, testing
- Truck platooning on expressways
- Automated-driving trucks on expressways (Level 4)
- Driverless automated driving delivery services in specified areas

Innovative streamlining of logistics responding to the era of population decrease

Transport service
- Bus Driver Assistance and automated driving on expressways (Level 2 and above)
- Testing on public roads (Remote areas, Underpopulated areas etc.)
- Driverless automated driving transport services in specified areas (Level 4)
- Driverless automated-driving transport services employing remote monitoring only
- Driverless automated driving transport services in specified areas (Level 4) * Expansion of subject areas/ODD and service content/scope

Society that enables the elderly drivers to freely move around the country

Realization of Society 5.0 (coordination with smart cities)

Referring to the Society 5.0 Reference Architecture, formulating a reference architecture for mobility as a whole, to help realize the future vision. Using this architecture to realize the future vision and a framework modeled in detail, organizing future initiatives and promoting development of flexible mobility systems in coordination with other fields.

Society 5.0 Reference Architecture

Strategy	Vision, scope, etc.
Rules	Laws, regulations, etc.
Organization	Implementing agency, council, operating organization, etc.
Business	Services, solutions, agreements, contracts Ecosystems, feasibility testing, etc.
Functions	Individual functions etc. for realizing services and solutions
Data	Data sets, lexicons/codes, data catalogs, etc.
The data collaboration	Data collection, data integration Data cleansing, IoT device management, etc.
Assets	Sensors, actuators, Hardware, networks, etc.

Security, authentication

Meaning axis

Time axis, spatial axis

Fields etc.

Source: Cabinet Office materials

Reference architecture in mobility systems (for transporting people and things)