

# METI's effort to realizing autonomous driving

Shigekazu Fukunaga  
Director ITS and Autonomous Driving  
Promotion Office,  
Ministry of Economy, Trade and Industry

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# 1

# CASE

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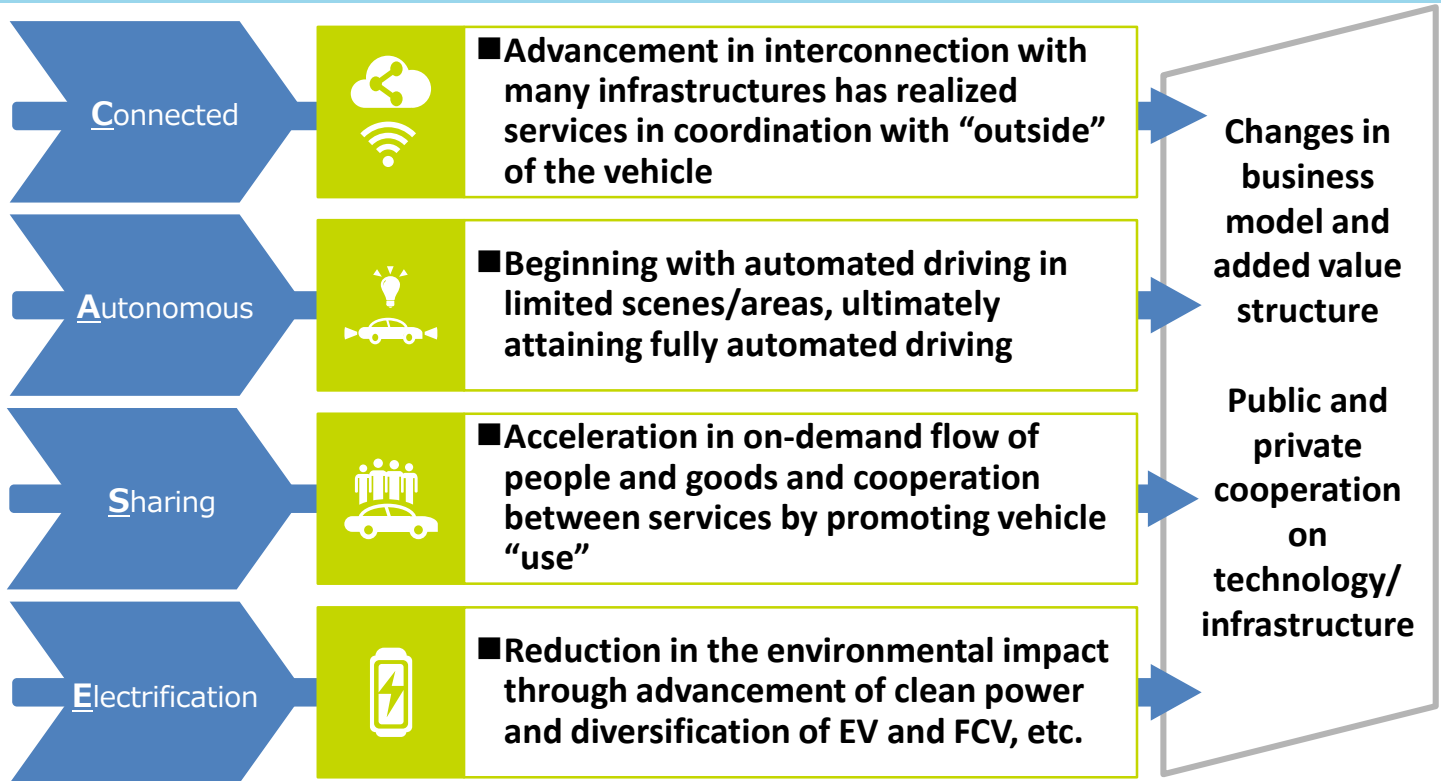
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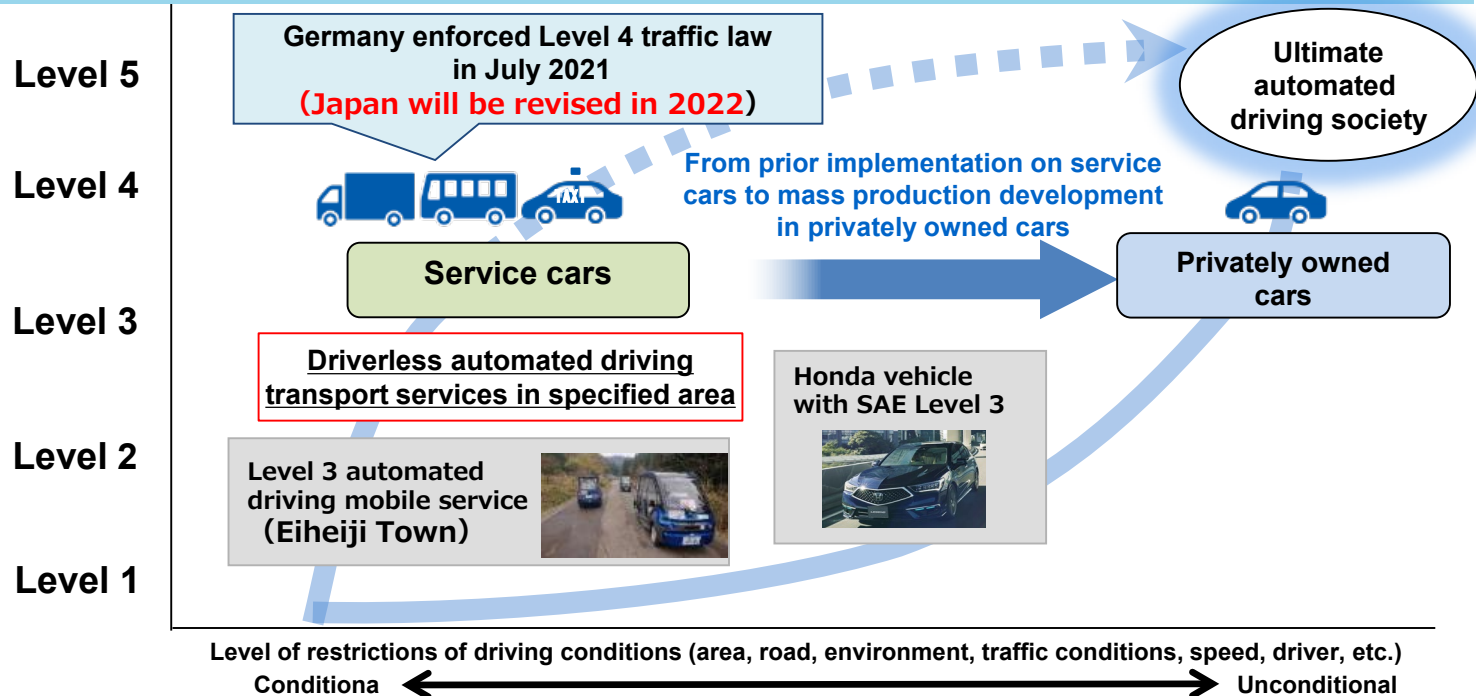
# What is the CASE trend?

- The automotive industry is expected to reform its business model to catch up with the so-called “CASE” trends of Connected, Autonomous, Sharing and Electric that may significantly change the industrial structure.



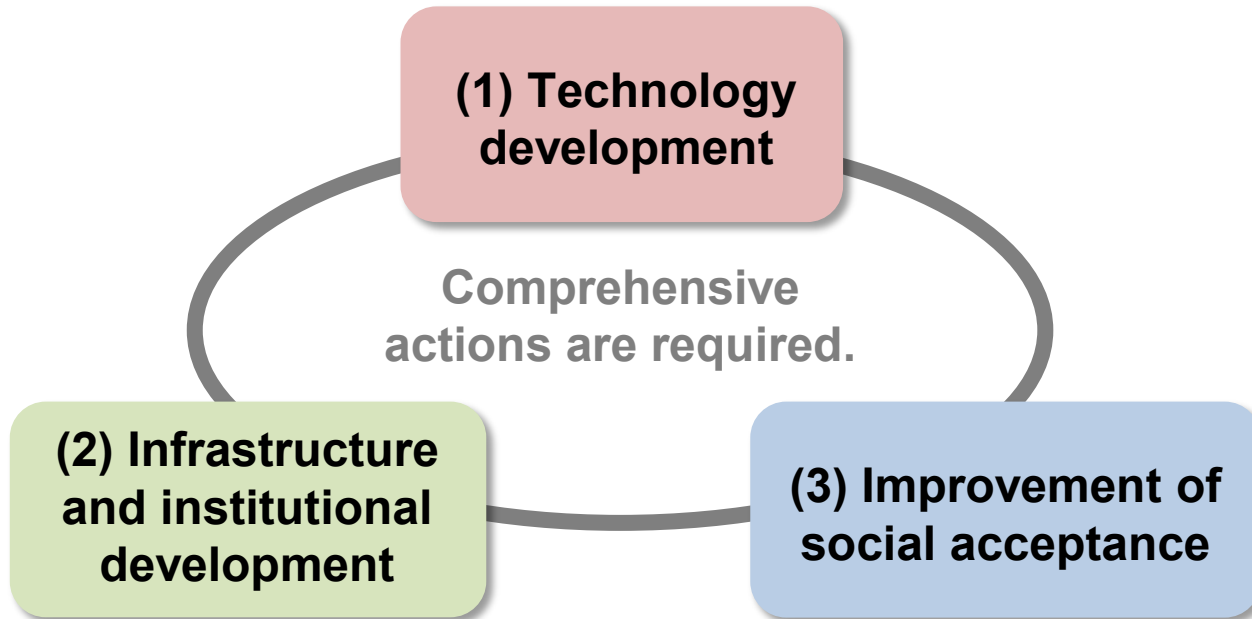
# Trends towards an automatic driving society implementation

- There are various turning points (elemental technology, infrastructure cooperation, safety evaluation, business model) until the realization of fully AD without conditions (SAE Level 5).
- Regarding commercial vehicles, full-scale operation of the driverless automated driving service of Level 3 started in March 2021.
- Honda released a vehicle with Level 3 automatic operation device in March 2021.



## Efforts Necessary for the Realization of AD

- For realizing automated driving, it is necessary to take comprehensive actions including **(1) technology development**, **(2) infrastructure and institutional development**, and **(3) improvement of social acceptance**. We promote those measures in cooperation with presiding ministries and agencies.



# 2

# RoAD to the L4

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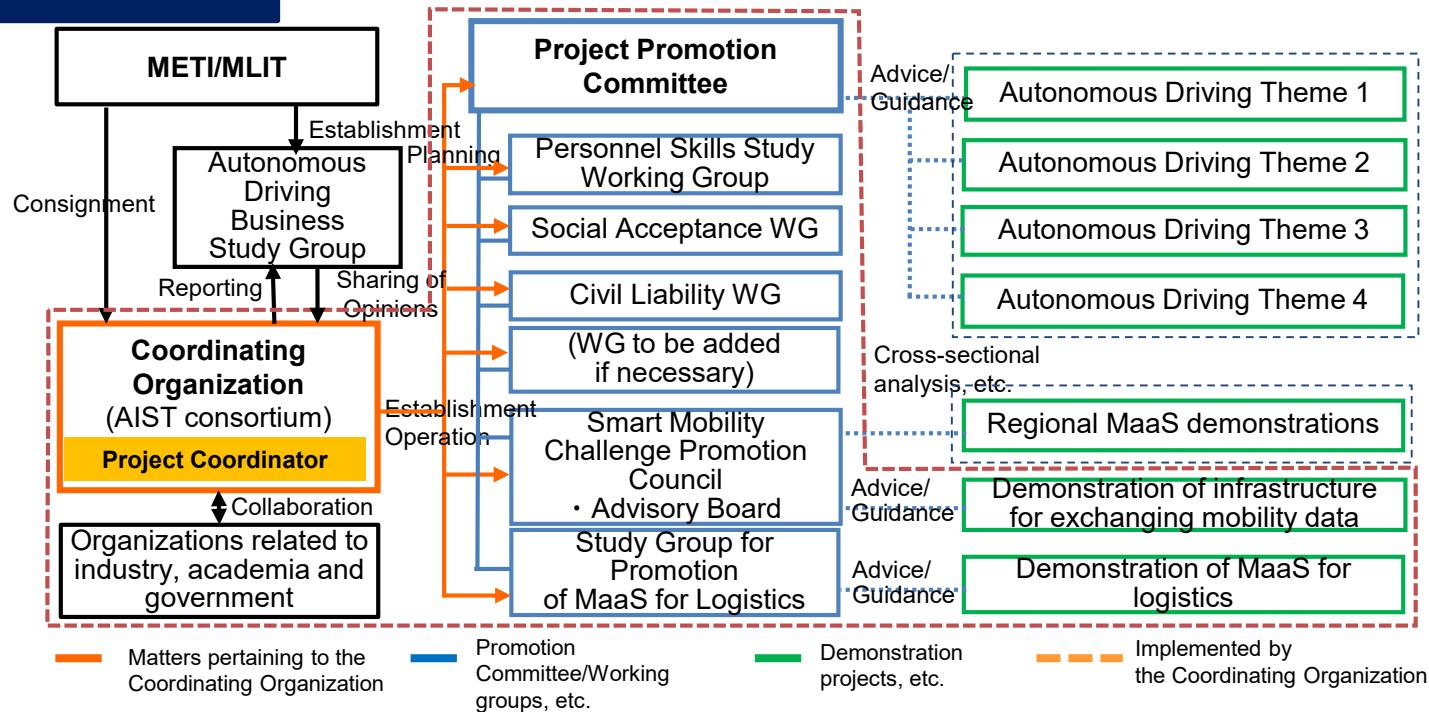


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# Advanced mobility service research, development and social implementation project for level 4 AD, etc.

- To realize and popularize advanced mobility services such as level 4 AD, the new project "**Advanced mobility service research, development and social implementation project for level 4 AD, etc. (RoAD to the L4)**" has just been launched starting in 2021 and will feature consistent initiatives including R&D, demonstration tests, and social implementation.

## Implementation system





# "RoAD to the L4" Research and Development / Social Implementation Plan / Overview

Items executed

Realization of Promotion of Driverless AD Services

## • Theme 1

### Demonstration of an AD Service with Remote Monitoring (Level 4)

Future image:

- Conduct demonstrations of an AD service in limited locations and vehicles with remote monitoring (level 4) by FY2022



(Image) Remote-operating AD System in Eiheiji-cho

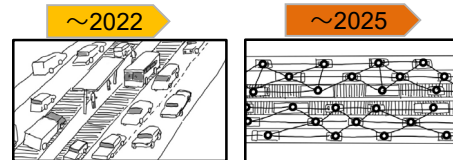
Area/vehicle expansion

## • Theme 2

### Other initiatives to expand target areas and vehicle, as well as improve business viability

Future image:

- Deployment of level 4 driverless AD services to diverse areas and with various type of vehicles at more than 40 locations by FY2025.



(Image) AD System of Toyota and Hino Motors

## • Theme 3

### Deployment of High-Performance Trucks including Platooning on Expressway

Future image:

- Deploy level 4 AD trucks and its platooning technology on expressway after 2025



(Image) Automated driving on Expressway

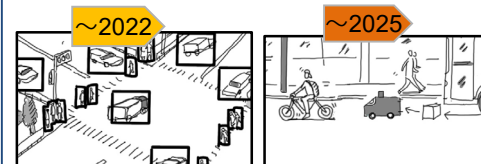
Support for mixed traffic environments

## • Theme 4

### Harmonization and interoperability of infrastructure, V2V and V2P for deployment of level 4 AD in mixed traffic environment

Future image:

- Achieve level 4 AD services in mixed traffic in diverse areas using cooperative system by around 2025



(Image) Driving assistance using data from infrastructure

# Thank you !

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