

Efforts in the Focus Fields (Automated Driving)

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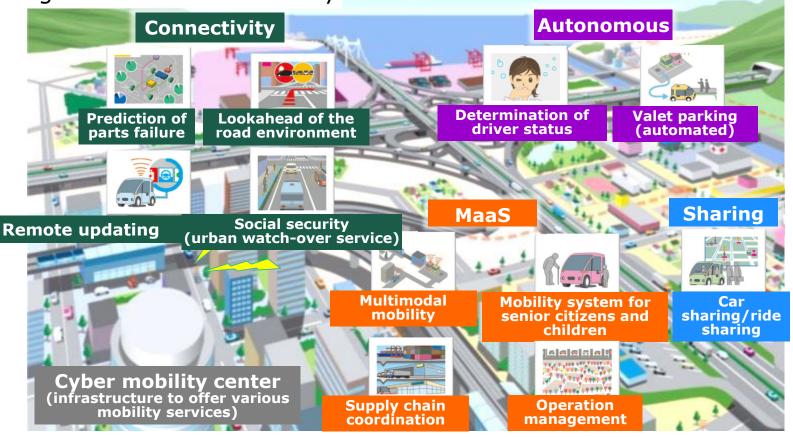


1. Goal



Future vision of mobility

Integration of IT and mobility



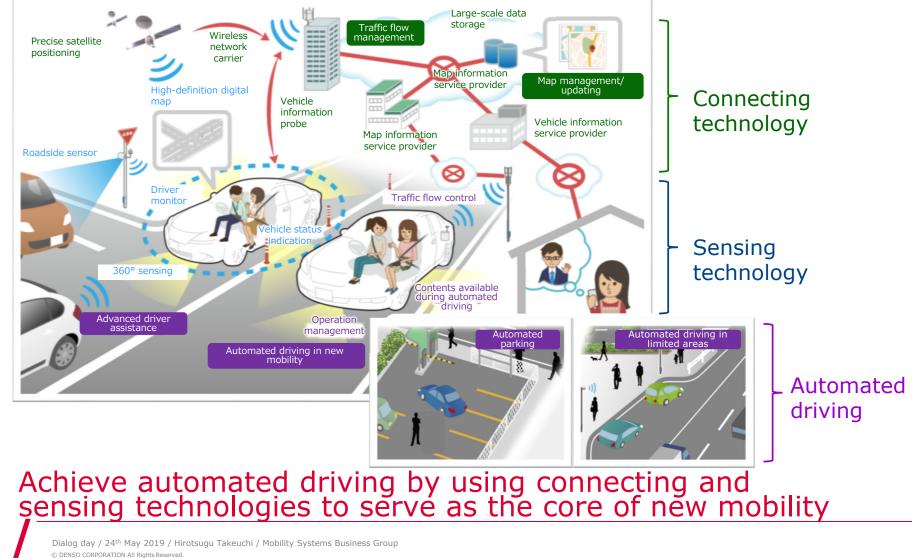
Integrate car electronics technology with IT to solve social issues





DFNSO

Crafting the Core



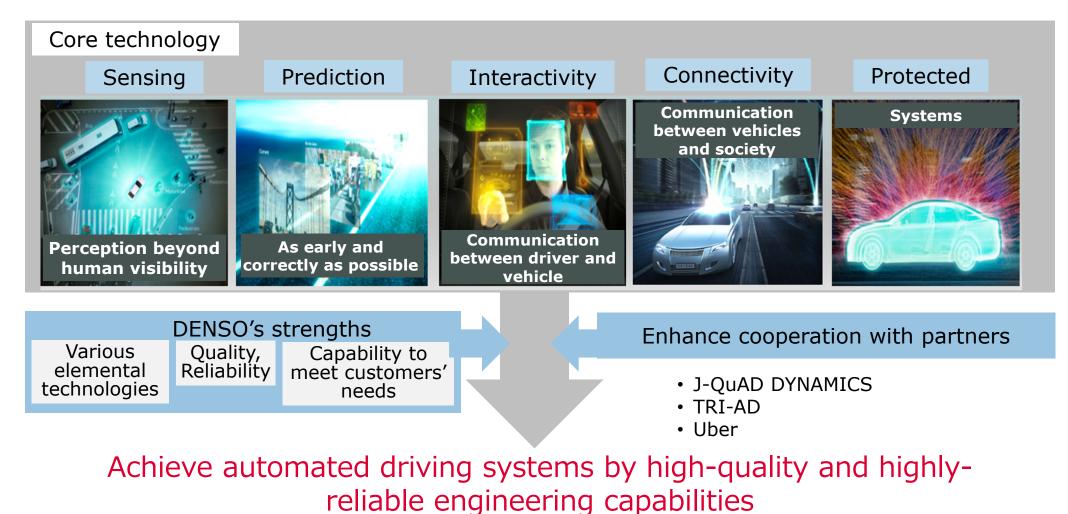
2.

Efforts to achieve the target

- Automated driving
- Cockpit system



Realization capability (individual capability × core technology)



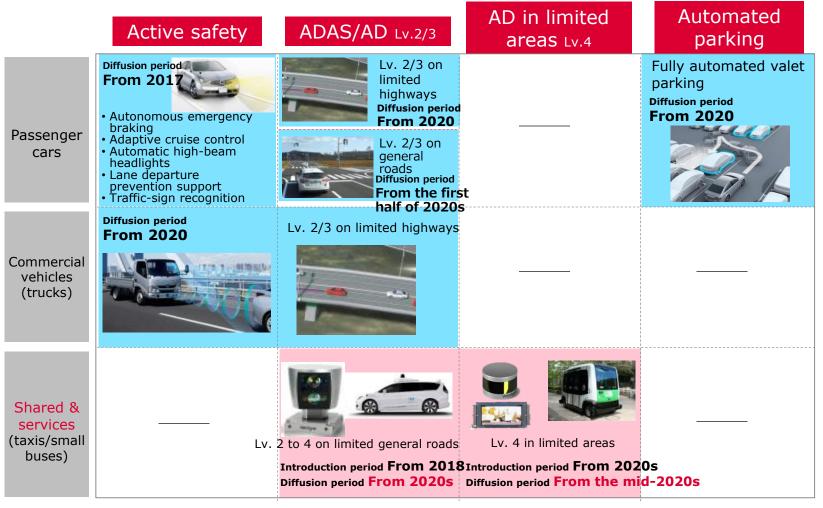
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Crafting the Core

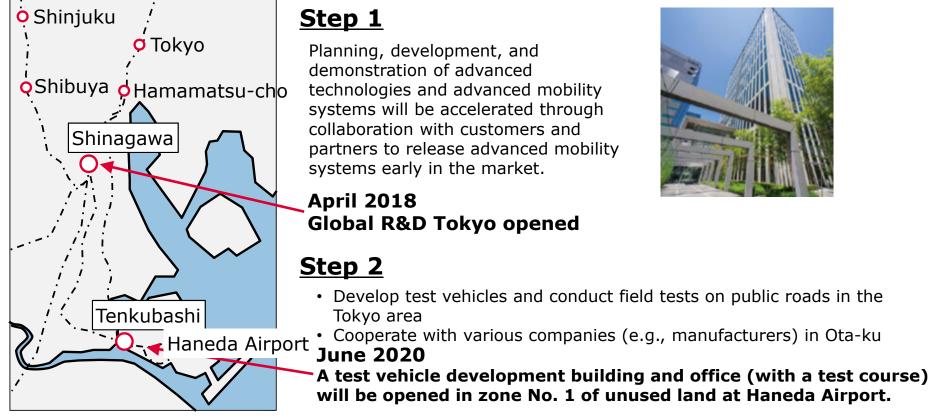
Efforts to achieve automated driving systems





Establishment of an advanced development center in Tokyo — Taking on challenges to create new value —

Value: Realize a safe society free from traffic accidents and achieve comfortable and flexible mobility



Implement the entire process from planning and R&D to prototype production and field tests in the Tokyo area



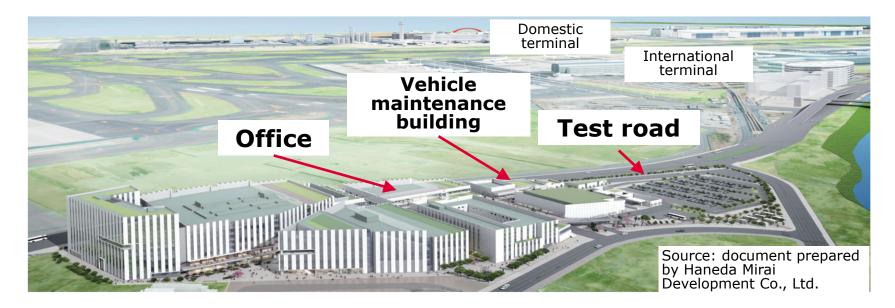
Profile of Global R&D Tokyo



Opening	April 2018
Location	16F and 17F, W Building, 1-8-15 Konan, Minato-ku, Tokyo
Employees	270 (as of December 2018)
Functions	R&D on advanced driver assistance, automated driving, and connected vehicles



Profile of the test vehicle maintenance building and office in Haneda



Opening	June 2020 (planned)
Location	Part of Hanedakuko 1-chome and 2-chome in Ota-ku, Tokyo
Employees	About 200 (planned for opening)
Functions	Prototype development of automated driving technologies, field tests using vehicles



Advanced development of ADAS/AD

Development of AD system packages

AD center

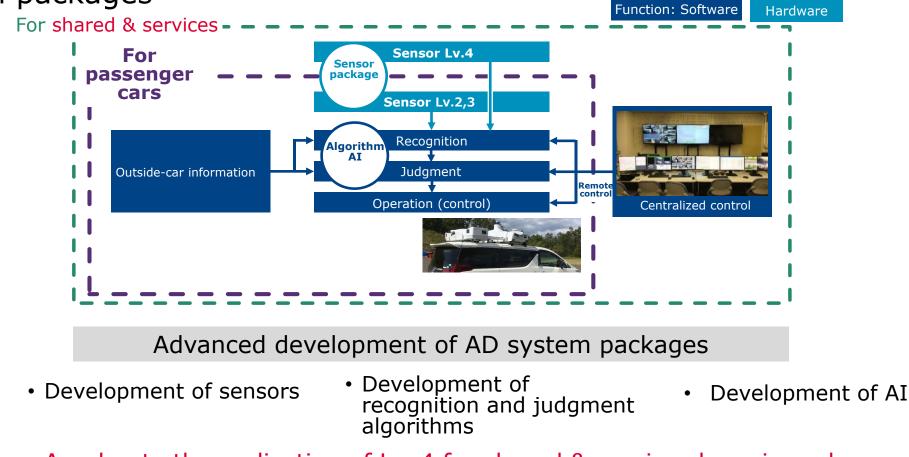


Development of automated parking systems





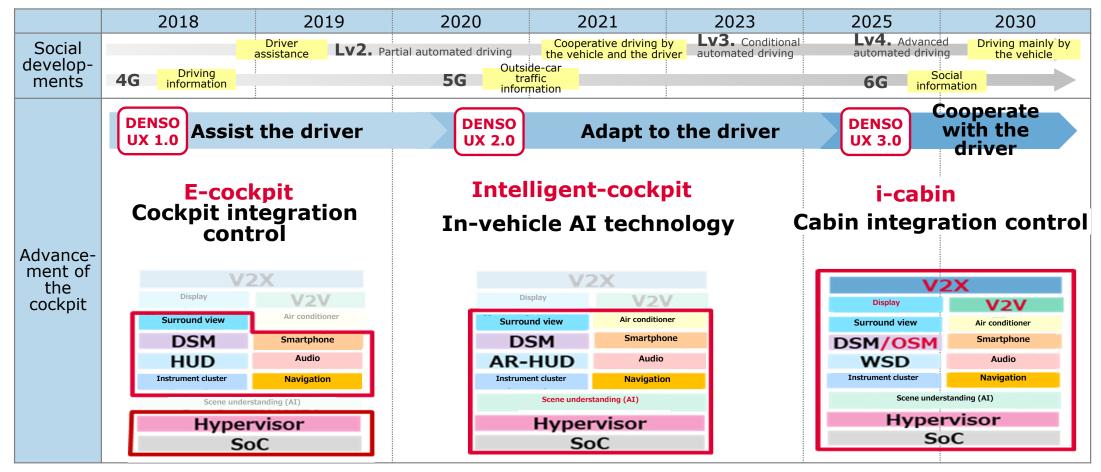
Advanced development of ADAS/AD: Planning and development of system packages



Accelerate the realization of Lv. 4 for shared & services by using advanced sensors and centralized control



Roadmap for the cockpit system



Offer cockpit systems that support the driver in line with the advancement of vehicles

DENSO Crafting the Core

Coordination between air-conditioning technology and HMI technology (thermal collaboration) — Challenges to create new value —

Example of i-cabin development

Cockpit appropriate for the new era

- Wide field of view, large foot space, and a thin instrument panel
- Incorporation of an advanced display device

- A space that offers peace of mind appropriate for automated driving
- Driver status (drowsiness, carelessness) determination and awakening systems

Air flow that can be controlled flexibly

- Air flow based on the occupants' positions
- Capable of controlling the air quality at will

CID: Center Info-Display HVAC: Heating, Ventilation, & Air-Conditioner DSM: Driver Status Monitor

Integration of DENSO's air-conditioning technology and HMI technology

Brain that

connects the

driver with

the vehicle



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Heart that

controls the

quality and

quantity of air

Smart

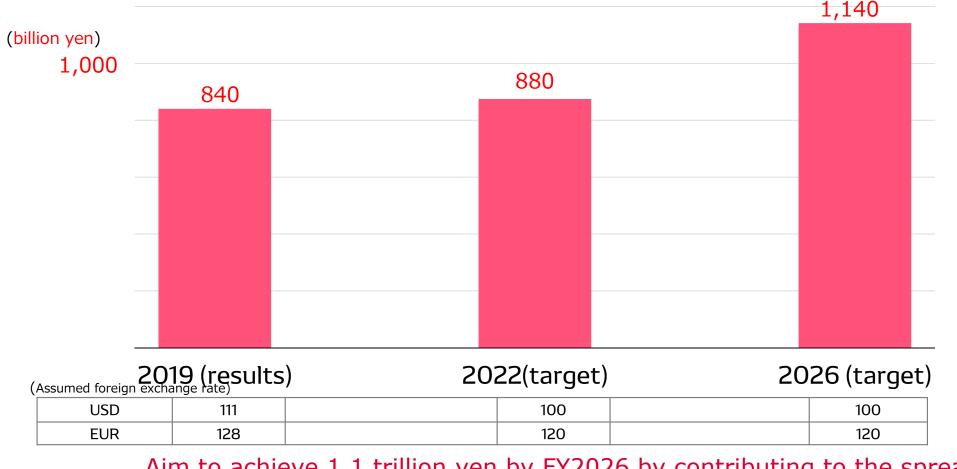
Pleasant

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3. Growth target



Mobility Systems Business – Revenue target for FY2026



Aim to achieve 1.1 trillion yen by FY2026 by contributing to the spread of automated driving (about 1.4 times compared to the results in FY2019)



Aiming to realize "Quality of Mobility" by achieving a three-way harmony between people, vehicles, and society as a whole, to bring the joy of mobility to all people



