DENSO supports the Sustainable Development Goals (SDGs).
New Mobility Envisioned by DENSO

Green

Peace of mind

Roles of vehicles

- Further evolution
  Highly intelligent vehicles

- Nodes of infrastructure
  Vehicles serving as part of social infrastructure (as sensors and actuators of infrastructure)

Software is the key to achieving the vision.
DENSO’s Progress toward Future Mobility

Past
Evolution of each single domain

Future
Cross-domain evolution

Single domain
Competition of independent values

Changes in the value proposition
Changes in the social structure

Cross-domain
Coordination in the ecosystem

Step up efforts in both cross-domain value and foundation
Offer cross-domain value

Development of a cross-domain system (example):
Advanced driver assistance products (marketed in April 2021)

Software first

Architecture
- Electronic platforms
- Hardware/software separated architecture
- Brain/limb ECU architecture

Development methodology
- Distributed development of large-scale software systems
- Globally coordinated development environment
- Model-based/virtual development

Quality
- Integration with high enough liability
- Security
- Fail-operational, Functional safety

Vehicle level viewpoint

DENSO’s strength
Software technologies and development know-how in all domains

Continue to lead the evolution of the cross-domain value based on DENSO’s proprietary technologies and development expertise
Build the foundation of the industry standard

Priorities in development

- Connection between vehicles and infrastructure
  Interface between automotive technologies and IT
- Connection in vehicles
  Interface between the cross-domain ECU and respective ECUs

Promoting standardization

- Enhance standardization activities (JasPar / AUTOSAR)
- Promote standardized specification on vehicle architecture and interface between ECUs with OEMs

DENSO’s strength

Development experience and mutual trust with OEMs and mobility industry

Continue to help expand the ecosystem that reflects “green” and “peace of mind” through partnerships across the industry
Changes in Human Resources and Organization

**Human resources**

- **Recurrent training of software developers** (from January 2021)
- **Establishment and deployment of recurrent training system** (skill definition, education curriculum, accreditation system)
- **Accelerate two shifts** towards 2025

**Organization**

- **Development of a cross-domain organization** (from June 2021)
- **Integrated control of software development through a cross-functional organization**

**Mature field → Growth field**

- 2,000 engineers

**Hardware → Software**

- 1,000 engineers

**Encourage engineers to innovate own career, in the organization that gives opportunities to play an active role**
DENSO
Crafting the Core