

## Technology Road Map

Partial Introduction of DENSO's Technological Development and Road Map Supporting Future Growth in Focus Fields

### Green Electrification and Energy Management Domains

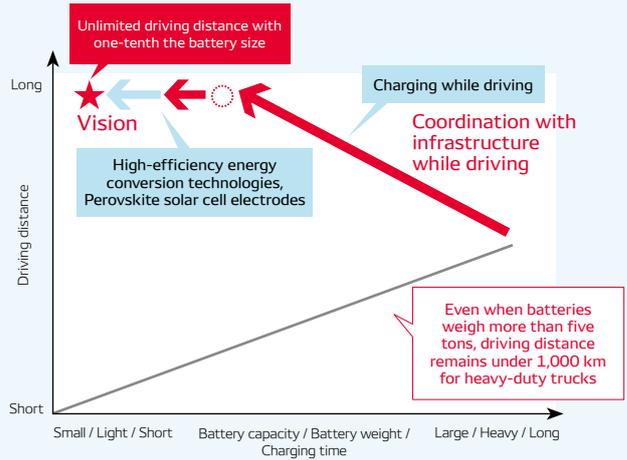
**Main technologies:** Systems for automatically charging BEV batteries while driving or stopped via power transmission devices embedded in the road. Viewed as a key technology by governments and industries for its potential to fundamentally address issues with BEV charging and driving distance

**Competitiveness:** Reduces battery capacity to one-tenth while extending driving distance to virtually unlimited levels, without relying solely on battery performance, by leveraging optimized cross-domain control technologies cultivated over many years of developing electrification products

**Issues:** Participation in large-scale projects for practical application and establishment of production systems that ensure quality for in-vehicle products

**Road map:** Completion of technological verification, development of vehicle-mounted components, and completion of demonstration on low-speed track test. Currently implemented verification test on public roads with the aim of realizing commercialization during fiscal 2029

Changes in Battery Load and Driving Distance with Power Supplied While Driving



### Peace of Mind ADAS Domain

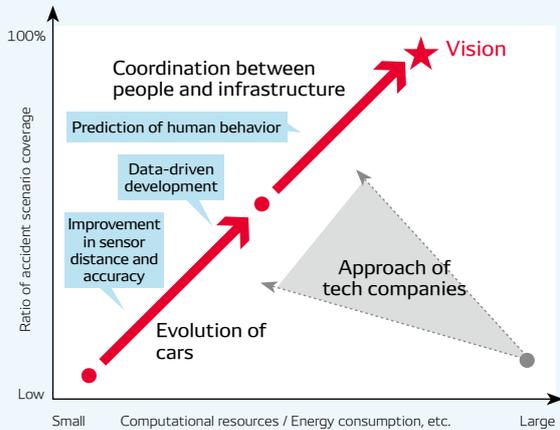
**Main technologies:** Technologies that utilize AI to swiftly realize automated driving through data-driven development. Technologies that predict human behavior and encourage behavioral modification

**Competitiveness:** Realize safety of automated driving technologies, leveraging track record in the mass production of ADAS. Provide safe mobility to all people through coordination between people and infrastructure

**Issues:** Acceleration of development speed through collaboration with partner companies

**Road map:** Utilization of data-driven development to establish automated driving technologies that can be rolled out globally. Aim to realize comprehensive accident scenario coverage by 2035 through the integration of people, vehicles, and infrastructure

Change in Accident Scenario Coverage through Coordination between People, Vehicles, and Infrastructure



### Fundamental Technologies Semiconductor and Software Domains

**Main technologies and competitiveness:** Manufacturing of SiC semiconductors at over 10 times the speed of conventional manufacturing, using proprietary, innovative "gas-phase" power semiconductor manufacturing technology and delivers post-SiC semiconductor performance surpassing that of consumer-grade products. For SoC, realizes high-speed computation with low power consumption optimized for automotive applications through IP capable of supporting cutting-edge AI models

**Issues:** Collaboration with partners from the perspective of geopolitical risks, etc., and establishment of supply structure capable of responding to fluctuations in semiconductor demand

### Software

**Main technologies and competitiveness:** Automotive software development with the latest AI technologies, thereby achieving significant cost reductions while handling increasingly complex, large-scale projects and maintaining quality necessary for in-vehicle products

**Issues:** Recruitment of roughly 6,000 software development personnel through continuous development and strengthening of recruitment activities (see "Human Capital" [P.48-52](#)).