Solving Key Challenges with Cross-Industry Partners

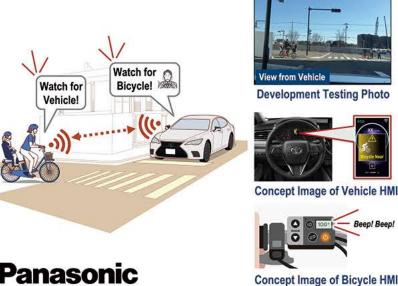
Background

- There are many technical challenges to overcome to achieve the safety, peace-of-mind, and carbon-neutrality goals of the AI & Communication-Cooperative ITS (A-ITS) concept.
- Solving these challenges requires robust cooperation between multiple industries.
- Below are some examples of the cross-industry partnerships already initiated by Toyota.

Partnership Examples

Direct Communication with Bicycles (Collaboration with Panasonic Cycle Technology)

- Good bicycle-to-vehicle (B2V) communication can help reduce accidents. Toyota is collaborating with Panasonic Cycle Technology to provide this service, by leveraging dedicated ITS wireless communication.
- Validated in 2023, our B2V communication technology is under final development for commercial ITS implementation after 2026.



Green Connected Infrastructure (Collaboration with KDDI)

- Toyota and KDDI are jointly developing multiple technologies for reducing environmental impact from the perspectives of vehicle communications, server operation, and data processing.
 - Reducing electrical consumption with container-type data centers (DC) and immersion-cooled servers.
 - Simulating solar generation to use surplus renewable energy.
- Using Open Roaming standard to secure seamless connection.
- Conducting in-field validation of technology in 2024.
- Started plan proposals for implementation from 2028.



Panasonic

Tateshina Meeting Cross-Industry Initiative to Improve Traffic Safety

- Automotive industry leaders meet annually in the Tateshina area of Nagano to discuss safety.
- Since 2019, the Tateshina Meeting has worked to achieve ZERO traffic injuries & fatalities.
- In July 2023, teams were formed for industry players to launch & promote specific activities.















































→1-37車体





三井住友海上







Emicware