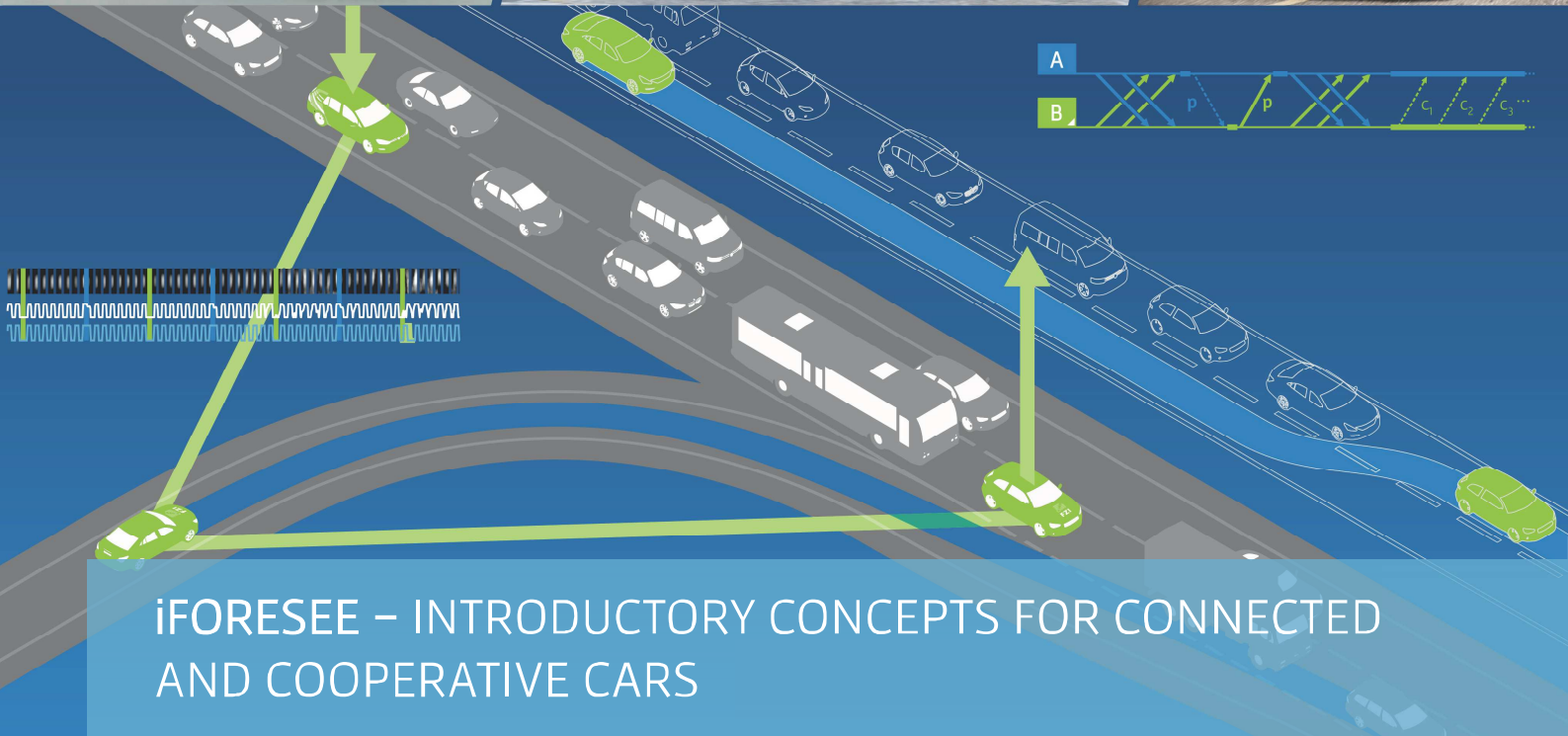




iFORESEE – INTRODUCTORY CONCEPTS FOR CONNECTED AND COOPERATIVE CARS

The automated systems developed in this project explicitly aim at adding market value at low densities of connected vehicles in traffic (starting from around 10%) under realistic conditions and close-to-market technology. At the same time, the systems must provide upward-compatibility which allows them to co-exist symbiotically with later generations of vehicles and higher levels of automation and cooperation.

To demonstrate the market value of such technologies, a broad approach is necessary, that includes not only technological feasibility, but also privacy, safety/security, acceptance, the transportation system and, above all, standards and added value across manufacturers and suppliers.

For this reason, the project joins a widespread selection of research institutions in and around Karlsruhe, which focus on automated driving functions (FZI, KIT-MRT and Fraunhofer IOSB), communication technology (KIT-IHE), traffic research (KIT-IfV), as well as acceptance and market studies (KIT-IFAB and Fraunhofer ISI), and relies on a close cooperation with the industry and public bodies.



For connected driving functions, human-machine interaction and user acceptance is one of the key challenges requiring systematic studies.

For testing and validation of the developed driving functions, the project relies on the capabilities of the “Test Area Autonomous Driving Baden-Württemberg” for test drives in real urban and inter-urban traffic, as well as on the close cooperation with the “Virtual Test Area” project (also part of the “Profilregion Mobilitätssysteme Karlsruhe”) for simulation studies and safety/security analyses.

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