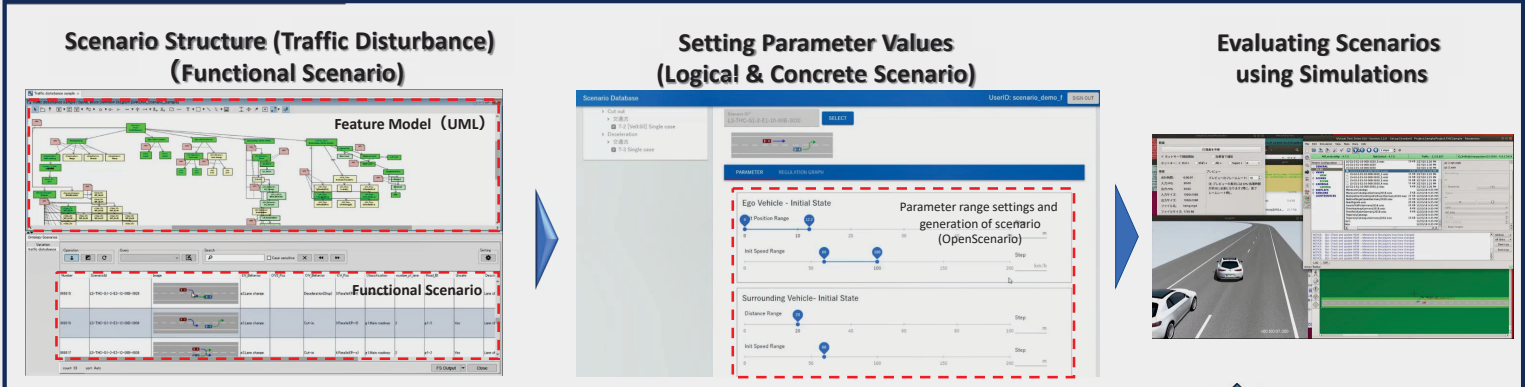


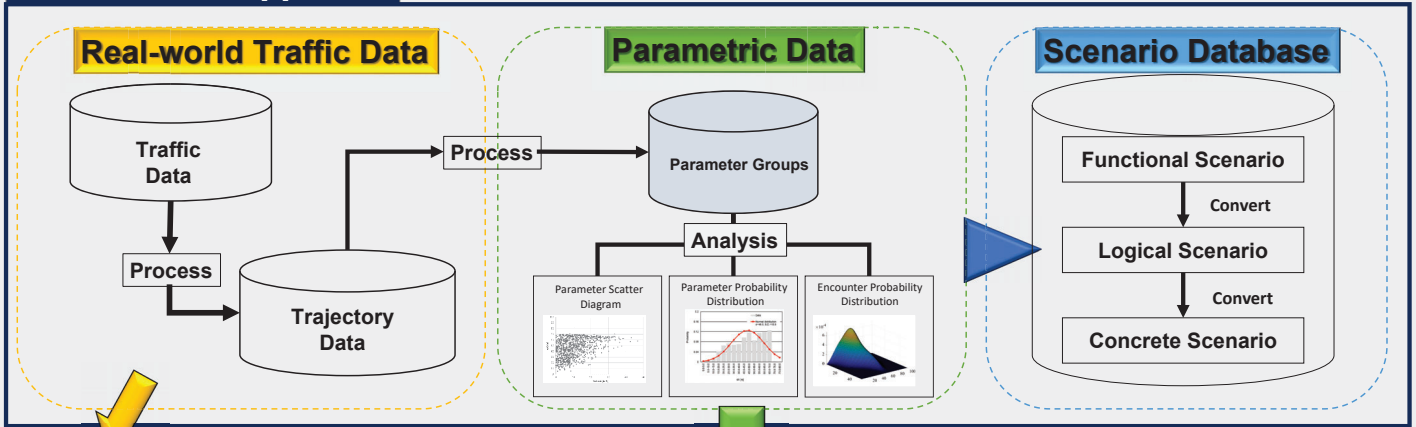
Summary

- Socially acceptable and technically sound safety assurance methodologies are needed to introduce Automated Driving systems into the market safely.
- The SAKURA Project aims to harmonize data collection, develop research methodologies, and coordinate standardization activities through joint efforts with vehicle manufacturers (JAMA) and traffic safety research institutions.
- Within this project, safety assurance process has been developed. Several activities are being deployed, including real-world traffic data collection, development of scenarios for safety evaluation, and definition of safety criteria.
- This project proposed the ISO international standard (ISO34502) for safety assessment scenarios in collaboration with each country, and contributed to the establishment of international and domestic standards for ALKS (Automated Lane Keeping System). It also works with the PEGASUS family, SOTIF, and ASAM.
- From this year, the expansion to urban roads, a safety evaluation platform comprised of a scenario DB combining Traffic Disturbance, Perception Disturbance, and Vehicle Stability Disturbance will be created.
- The application of the safety assurance process will guide the development of the systems towards a safer Automated Driving society.

Scenario Database



Test Scenario Approach



Real-world Traffic Data

Instrumented Car

Process

Fixed Observation

Process

Ongoing third-party data acquisition with both instrumented vehicles and fixed cameras over motorways

Parametric Data

Parameter from Real-World Traffic Data

Parameter definition of the Subject vehicle lane change & Object vehicle cut-in

Scenario dependent parameter definition and automatic extraction

1 Pattern example

Parameter Correlation Analysis

Estimation of Parameter Distribution