SIP-adus Workshop 2019





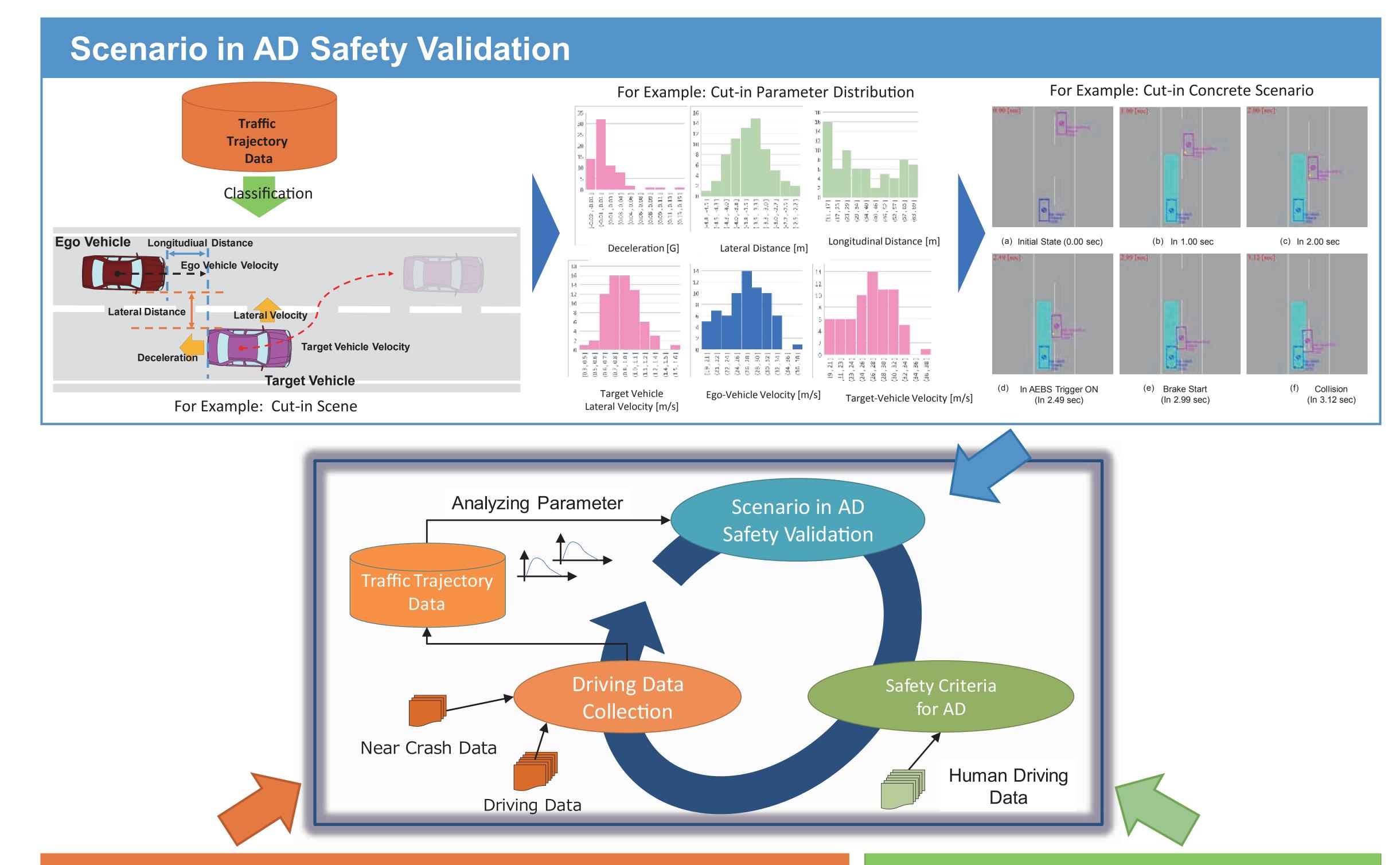
Safety Assurance Kudos for Reliable Autonomous vehicles: SAKURA Project

Summary

Socially acceptable and technically sound safety assurance methodologies are needed to safely introduce Automated Driving systems into the market.

The SAKURA project is a large scale coordinated initiative funded by the Japanese Ministry of Economy,

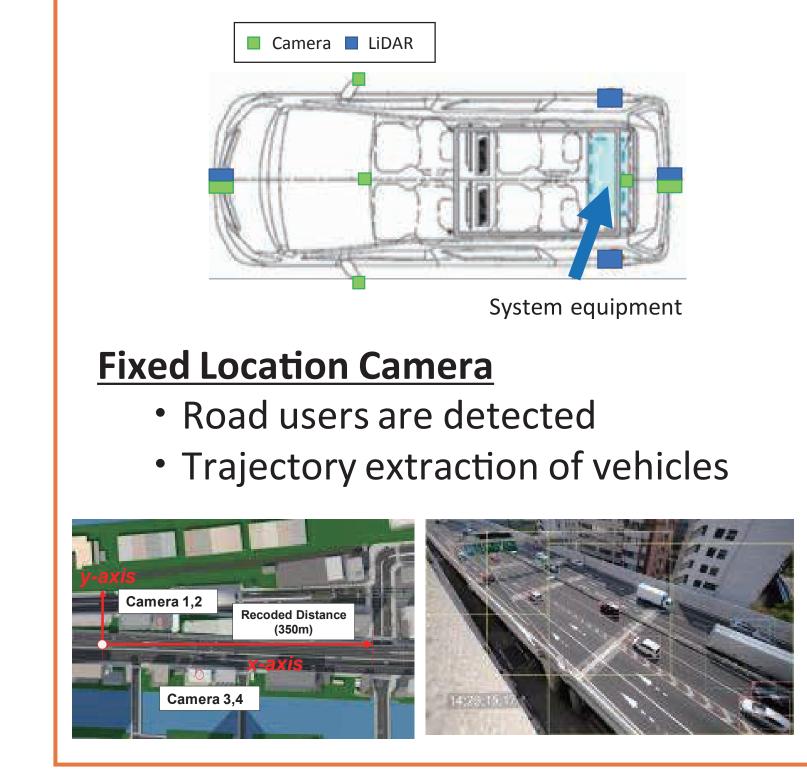
- Trade and Industry (METI) that aims at harmonizing data collection, developing research methodologies and coordinating standardization activities through joint efforts by vehicle manufacturers and traffic safety research institutions.
- Within this project, a comprehensive safety assurance process has been developed and a number of activities are being deployed including real-traffic monitoring data collection, development of traffic scenarios for safety evaluation and definition of safety criteria.
- The safety assurance process will be applied to guide the development of the systems towards a safer Automated Driving society.



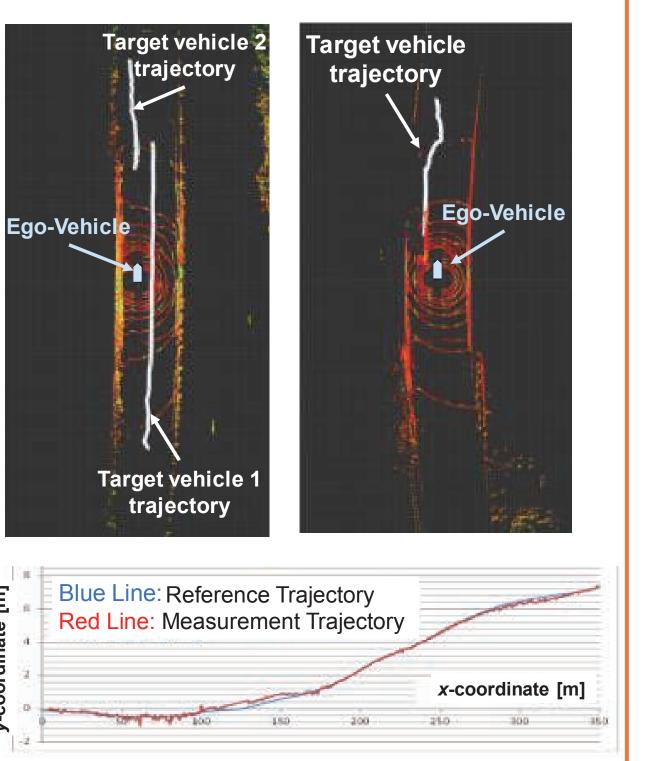
Driving Data Collection

Data Collecting Vehicle

 Collect driving data of 360 degrees around ego-vehicle



 Trajectory extraction of surrounding vehicles



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Safety Criteria for AD

Comparison with human driver capabitilty

- Evaluation of human driver capability of cut-in scenario by Driving Simulator
- Comparison of safety between human driver and Autonomous Emergency Braking System

