# Virtual validation methodology for AD safety assurance

General Overview and DIVP® project design

DIVP® develops highly consistent AD-simulation with precise measurement-based environmental model & sensor models for virtual-based AD-safety assurance

"Safety assurance" is the key success factor for social implementation of AD technology, and developing a simulation validation PF that validates sensors is crucial in securing "safety". The DIVP® consortium is developing a virtual safety validation PF, and shares tools with automotive OEMs and suppliers, bolstering safety evaluation of AD/ ADAS while enhancing efficiency and robustness.

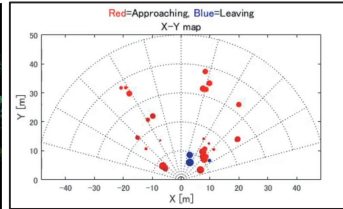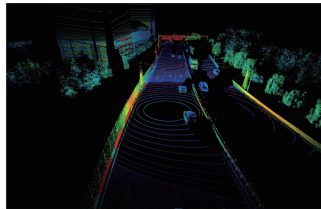DIVP® Consortium consisted of 12 experts
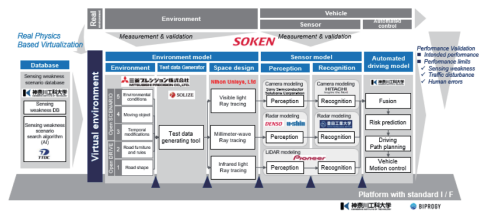
Major Outcome

Setting reflection property based on real measurement *enables sensor validation* in highly consistent evaluation environments

No Property | With Property

Camera | LiDAR | RADAR

Future Project Development

While CAO funding will end in FY22, simulation based AD safety assurance validation procedure and tool chain should be standardized for AD social implementation & realize consumer well being with Automated mobility

Roadmap: Use of AD Safety Validation Platform

Goal

神奈川工科大学 KANAGAWA INSTITUTE OF TECHNOLOGY
Pioneer
豊田工業大学 TOYOTA TECHNOLOGICAL INSTITUTE
SOKEN
TTDC
BIPROGY
Sony Semiconductor Solutions Corporation
MITSUBISHI PRECISION CO., LTD.
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