







Performance

Summery for performance & function >
It widened this prediction area of Risk Map to urban road and intersection, it even consider potential risks in blind spots to enable expected driving.

⟨Appeal point⟩

- 1)Accuracy with recognition of potential risks, and safeness of "Expected Driving" in urban scene and intersection.
- 2)Proposing for solution enabling further safeness and convenient, smooth driving by "Connected"



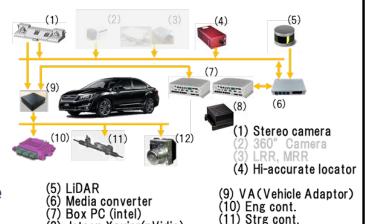


Technology Summary

(system composition)

Risk Map Technology

- Expansion of prediction range and responding to intersection by evolving of prediction model.
- Expressing risk/potential risk on individual layer enable to plan/judge corresponding with each risk.
- expressing existing risks in 3D space by 2D, enable to calculate by ADAS ECU.



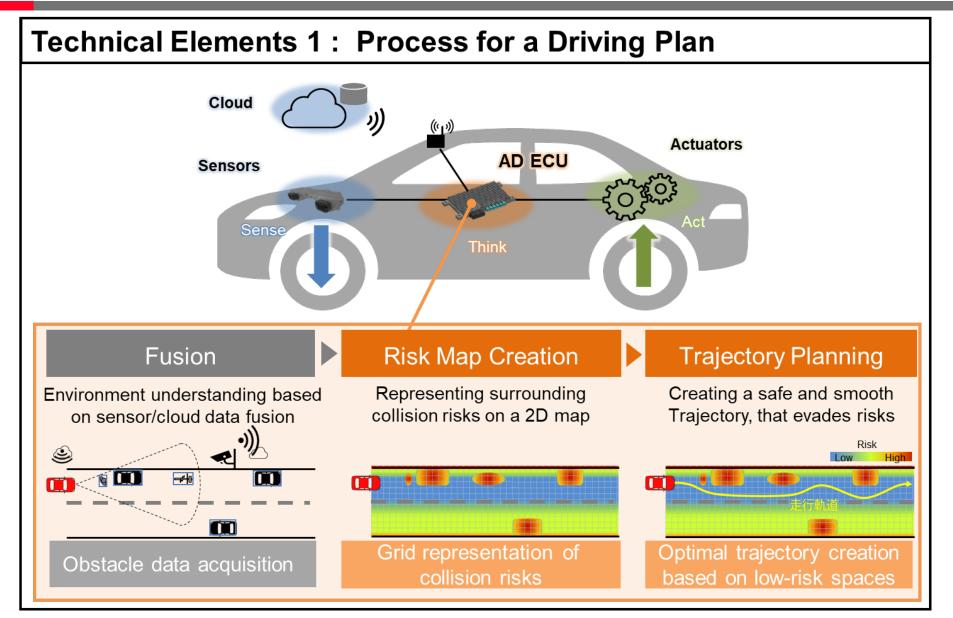
(8) Jetson Xavier(nVidia)



(12) Break cont.







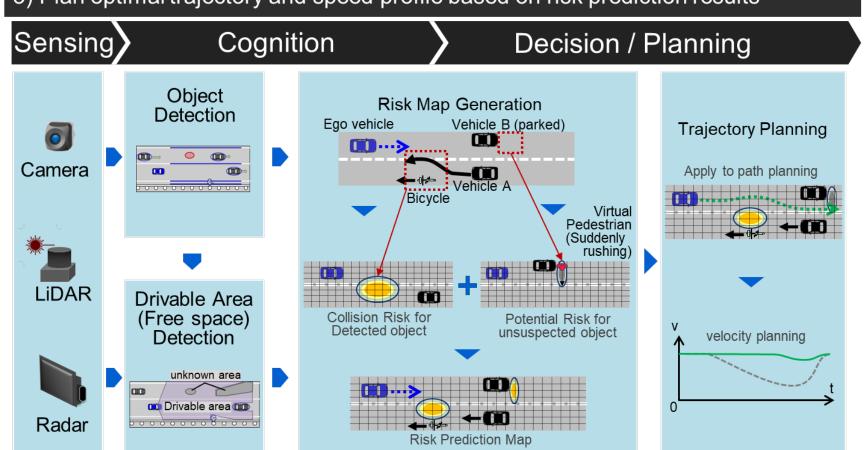






Technical Elements 2 : Dynamic Risk Map Technology

- 1) Detect surroundings with sensors, recognize surrounding objects and free space
- 2) Predict collision risk with detedted objects and potential risk of blind spots
- 3) Plan optimal trajectory and speed profile based on risk prediction results



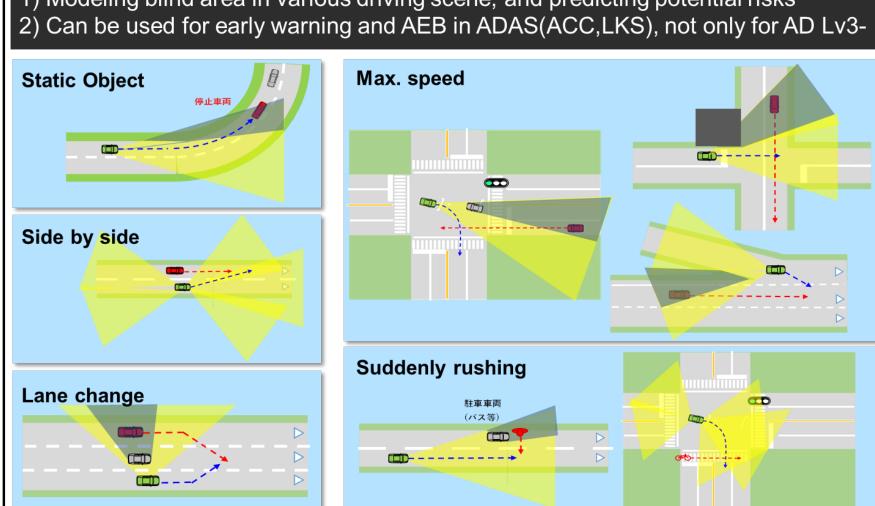






Technical Elements 3: Use cases of Risk Map

1) Modeling blind area in various driving scene, and predicting potential risks





Astemo