

SIP-adus Workshop 2021



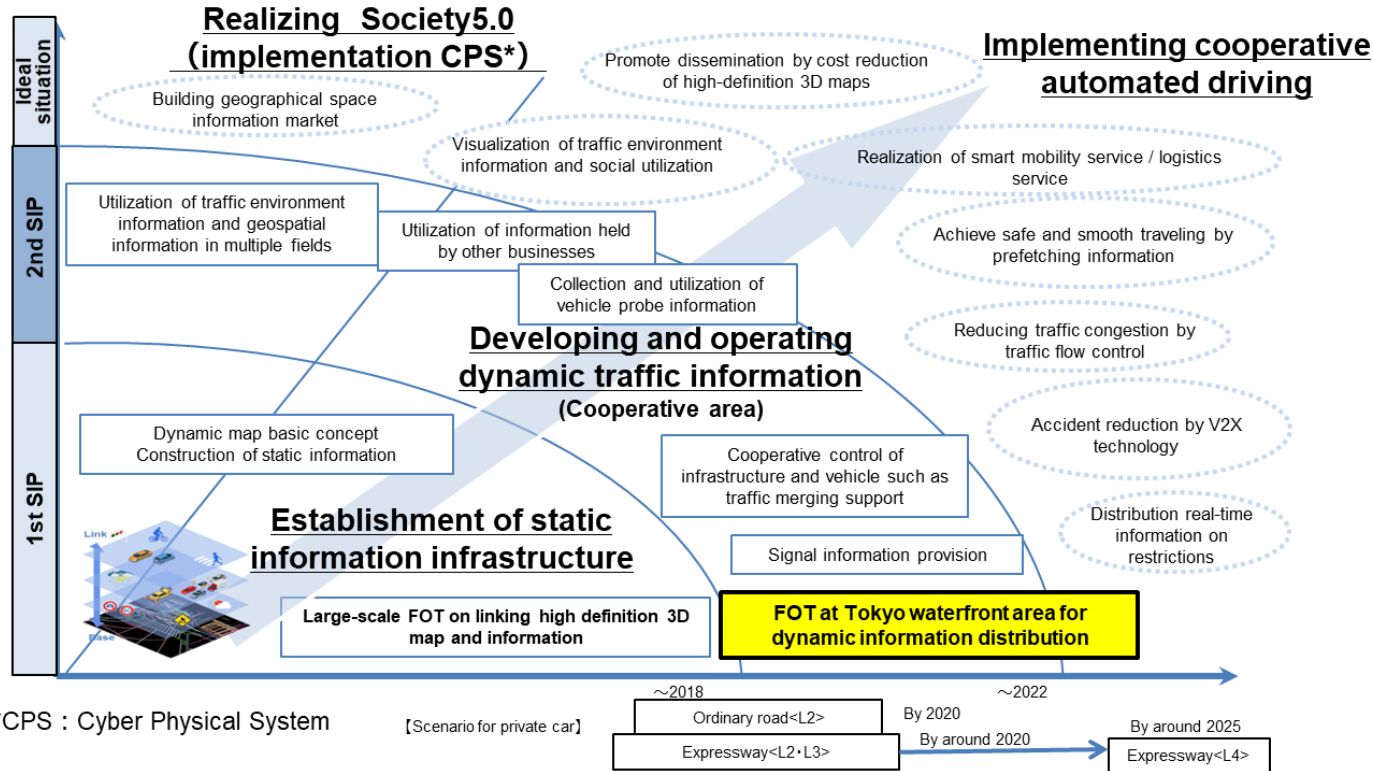
SIP-adus FOTs in Tokyo waterfront area

– Toward the realization of cooperative autonomous driving –

Masato MINAKATA (TOYOTA MOTOR Co.)

Roadmap for traffic environment information

- ◆ Formulated "Traffic environment info. construction and utilization roadmap" and worked on standardization and practical application through demonstration experiments.



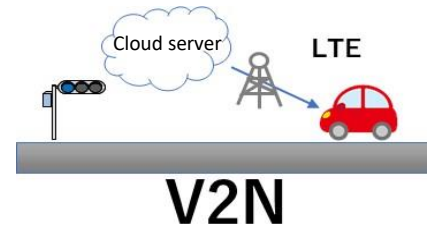
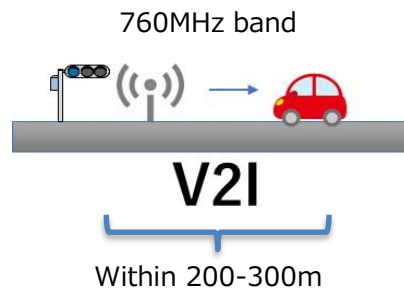
Initiatives through FOTs

SIP Phase 2 FOT in Tokyo Waterfront area(FY19~FY20)

Construction of a mechanism for dynamic info. utilization using **wireless communication**

- Demonstration by **narrow-range wireless communication (V2I **)** using a dedicated frequency band assigned to ITS * applications to establish specifications for providing **signal info..**
- Demonstrate technical feasibility with **wide area public network communication (V2N ***)** to build a mechanism for **collecting and utilizing private probe data** from POV.

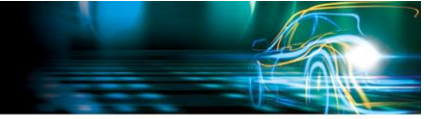
(Ex. Signal info. distribution)



*ITS : Intelligent Transport Systems

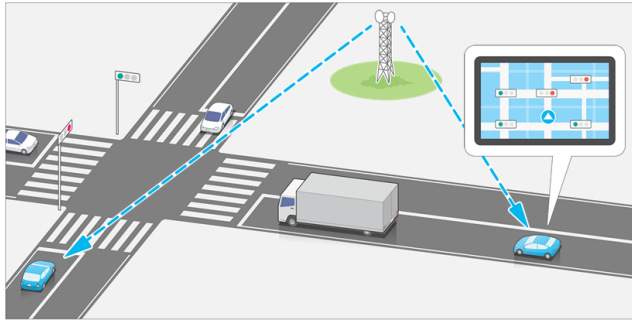
V2I : Vehicle to Infrastructure *V2N:Vehicle to Network

Aiming through 21FY FOTs

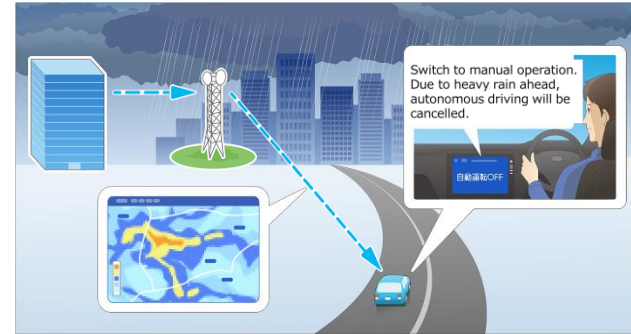


◆ By utilizing traffic environment info., driver info. is provided, advanced driver assistance systems, and automated driving system application scenes are expanded.

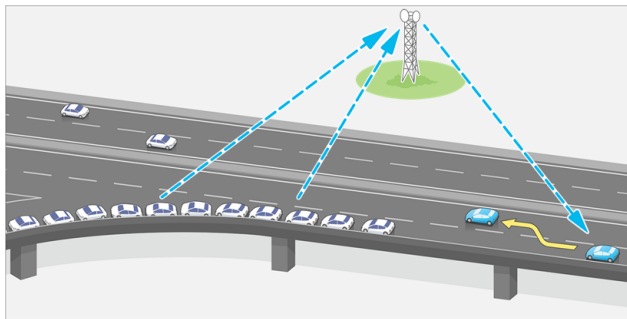
● Driving support and autonomous driving on general roads using signal info. on a regional basis



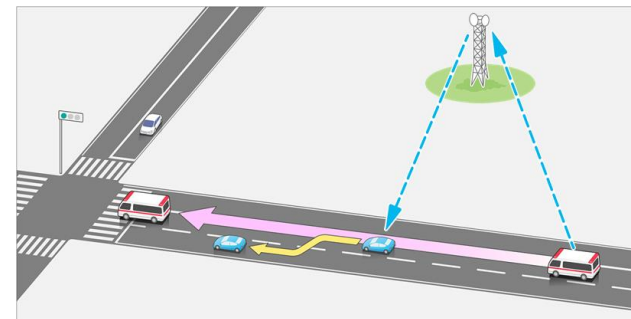
● Predict early guerrilla rainstorms
(Avoidance route, manual operation switching)



● Smooth lane change by forecasting traffic lanes



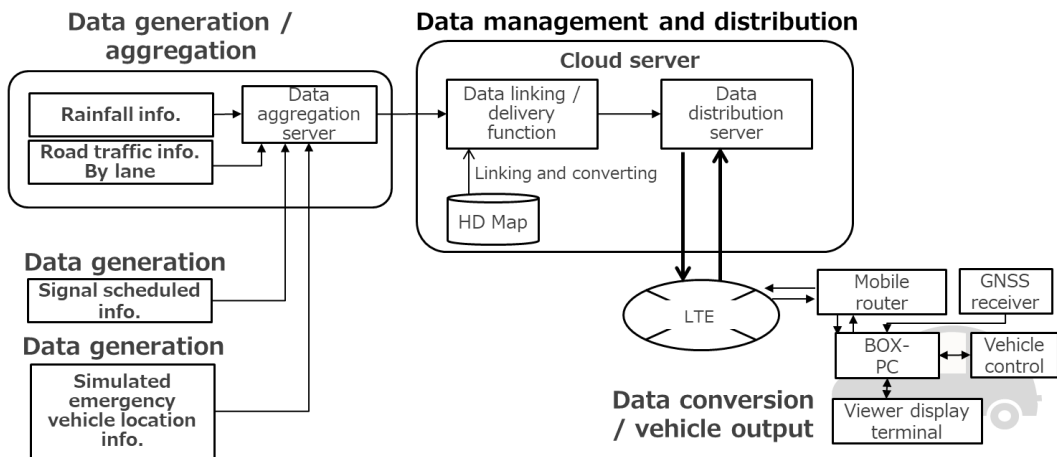
● Warning and avoidance of approaching emergency vehicles



Outline of 21FY FOTs

- ◆ Utilize new traffic environment info. to expand the operation scene of AD vehicles in the Tokyo waterfront area

- Building a new info. generation and distribution FOT environment in the Tokyo waterfront area through a public network (V2N *) in anticipation of practical use



- Participants



Alphabetical order. A total of 22 institutions



**SIP-adus
Workshop
2021**

Thank you

