

# Innovation of Automated Driving for Universal Service (SIP-adus)

- mobility bringing everyone a smile -

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Acting PD of SIP-adus





# Challenge of road transportation

#### Traffic accident





**Traffic congestion** 

Aging society



#### More than 1.2 million traffic-fatalities worldwide

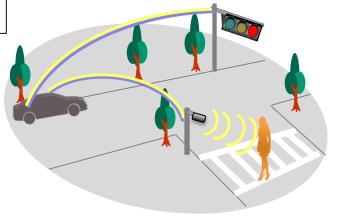


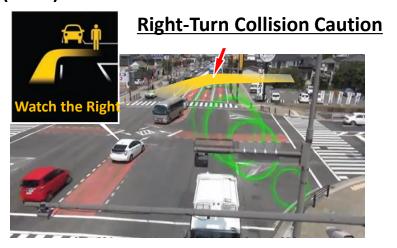


### **ITS Connect**

CONNECT

Vehicle-to-Infrastructure (V2I)



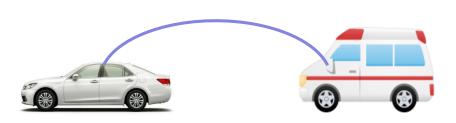


Vehicle-to-Vehicle (V2V)

**Cooperative Adaptive Cruise Control (C-ACC)** 



**Emergency Vehicle Notification** 



ITS connect service start form this fall in Japan for the world-first



## SIP-adus; Goal & Exit Strategy



Innovation of Automated Driving for Universal Service (SIP-adus)

- Reducing road crashes and etc. Achieving the national goal:
   The national infrastructure for achieving the national goal
- 2. Realizing automated driving system and becoming widely used the system:
  - Turning the system into a commercial and promoting with research and development through A to Z and concurrent international cooperation
- **3.** Putting into practical use of public transportation system for next-generation:

Developing and working with as milestone on the road to Tokyo Olympics and Paralympics





# Technologies for Automated driving systems

## Vehicle







**HMI :Human** Machine Interface

HMI

Cooperation

with Human

Sensor



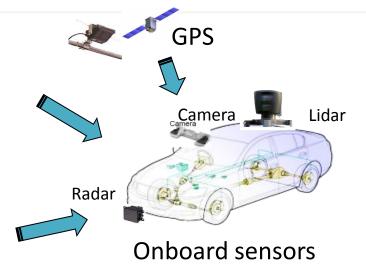
Actuator

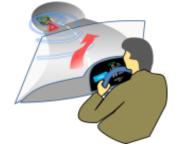


**Dynamic Map** 



ITS Anticipative Info.





Interface to secure safety and smoothness

Basic Tech.

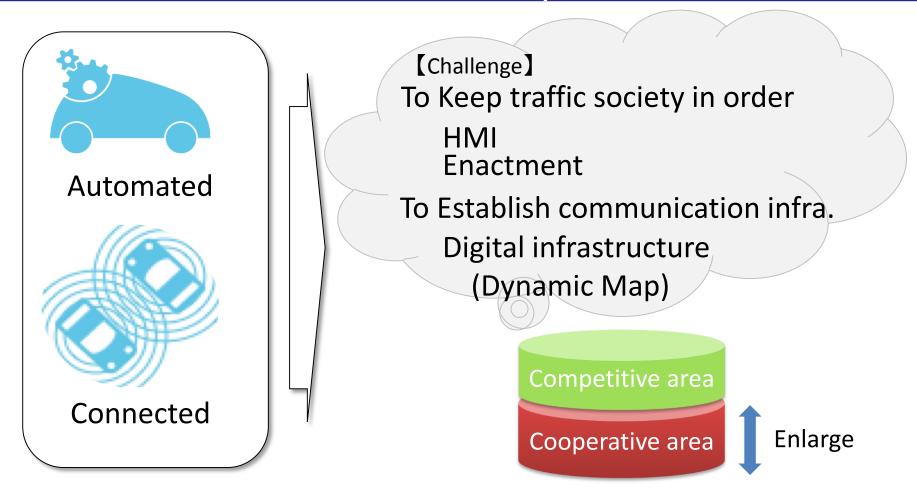
Security, Simulation, Database, etc.

In red : Area of Cooperation ⇒ Main Area of SIP





# International cooperation



International cooperation is necessary to clear many challenges such as technical, legal, and ethnical issues.

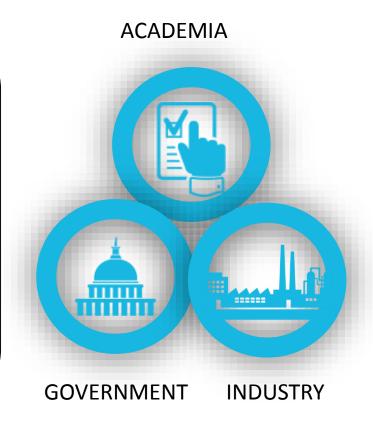




## Collaboration

#### SIP-adus Focused themes

- 1) Dynamic Map
- 2) Connected Vehicle
- 3) Security
- 4) Impact Assessment
- 5) Human Factors
- 6) Next Generation transport



Cooperation between academia, government and industry is critical in addition to international cooperation.







mobility bringing everyone a smile!