#### **EUCAD** "International cooperation"

## **SIP Automated Driving System**

SIP-adus ; Automated Driving System for universal service

#### Seigo KUZUMAKI Program Director of SIP-adus

3 April 2019



## Society 5.0



#### Data convergence

high degree of convergence between cyberspace (virtual space) and physical space (real space).

## Economic advancement

Solution of social problems

provision of products and services that are needed to the people that need them at the time they are needed

+

human-centered society in which anyone can enjoy a high quality of life full of vigor



## **Outline of SIP2**



#### Intensive R&D program

- ✓ promote 5-years R&D (FY2018 FY2022)
- ✓ from fundamental research to practical and commercialization

#### Promote cross-sector collaboration

- ✓ enhancing cross-ministerial cooperation
- ✓ promote industry-academia-government collaboration

#### Leadership and total Budget

 CSTI appointed Program Directors and allocates the budget for each research theme.\*

\* \50bil in total per year
(65% for SIP 12 themes, 35% for medical R&D)



Cross-Ministerial Strategic Innovation Promotion Program

Council for Science, Technology, and Innovation

Governing board (CSTI Executive Members)

Cutside experts

#### Executive Director of SIP (Assigned from 2018)

**Program Director (PD)** (assigned to Cabinet Office for each policy issue)

#### Steering Committee

PD (Chairman), relevant ministries, experts, corporations, Cabinet Office (secretariat)

Relevant ministries and management corporations and other researchers

## **Promotion framework of Japanese Government**





## **Overview of 2nd Phase of SIP-adus**

The operational domain of automated driving will be extended from highways to arterial and general public roads, and automated driving systems will be implemented in mobility services including public transport and logistic operations.

 $\Rightarrow$  Safe and comfortable mobility for everyone in society.





## **Deployment Milestones**



Investment and business planning by private operators will be promoted by:

- 1) taking full advantage of the Olympic and Paralympic Games Tokyo 2020
- 2) conducting FOTs based on the business plans of entrepreneurs and local government



**Open discussion** for promoting international standardization and R&D

Local FOTs involve entrepreneurs and local government.

## Main domain of SIP-adus' R&D





#### **FOTs (Tokyo Waterfront City–Haneda Area)**

## **FOTs will start in autumn 2019 in the Tokyo waterfront city area** (general roads

and Metropolitan Expressway / Haneda area) with recruiting participants widely

前方確認

Priving Safety Support

青海地区



#### **Building the Traffic Environmental Info. Framework**



#### **FOTs (Local Transportation)**



Long-term FOTs will be implemented in underpopulated areas, local communities, etc. through collaboration with entrepreneurs and local government to validate business feasibility of automated driving in terms of logistics and mobility services.

#### Mobility/logistics services in underpopulated areas, etc.









FOTs for technologies

FOTs for implementation and commercialization

Long-term FOTs on public roads toward commercialization as means of local logistics and mobility services for citizens





Ensuring means of mobility in areas where many elderly persons live or that are not easily accessible

#### **International cooperation**



#### SIP-adus Workshop 2019 November 12-14 @ Tokyo International Exchange Center

Regular annual international conference for Info. Sharing & discussion

[Themes at Breakout WS] Dynamic map, Connected, Human Factors Cybersecurity, , Safety Assurance, FOT



#### FOT in Tokyo Bay area Start from Oct. 2019

Recruit participants widely including overseas ⇒Discuss about standardization openly with various entities like OEMs, suppliers, academia. More than 25 participants are expected to join.



Collaborative research with research institutes overseas is under discussion

# Thank you http://www.sip-adus.go.jp/