SIP-adus workshop 2020

### Challenge to establish ecosystem of sustainable mobility -Academic collaboration and practice-Prof. Yoshihiro SUDA Director of Mobility Innovation Collaborative Research Organization (UTmobl), The University of Tokyo Advanced Mobility Research Center (ITS Center),

Institute of Industrial Science,

The University of Tokyo



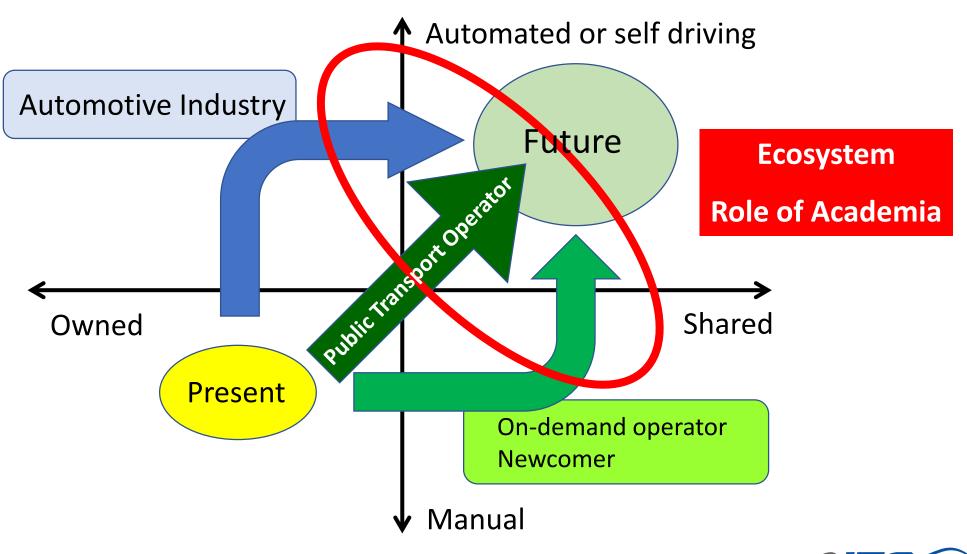






東京大学 The University of Tokyo

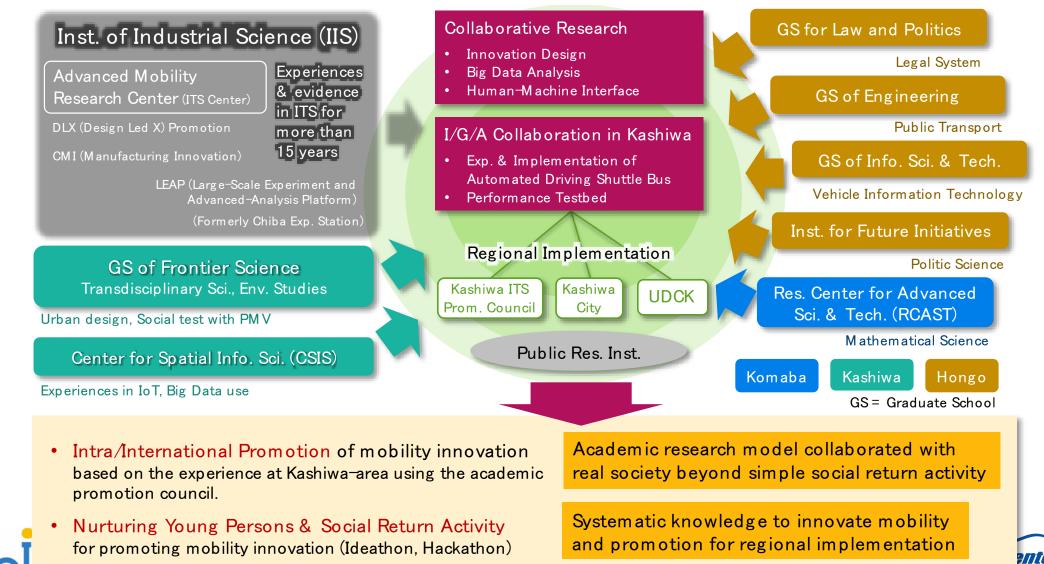
## Mobility as a Service and social change







## Mobility Innovation Collaborative Research Organization (UTmobl), The University of Tokyo





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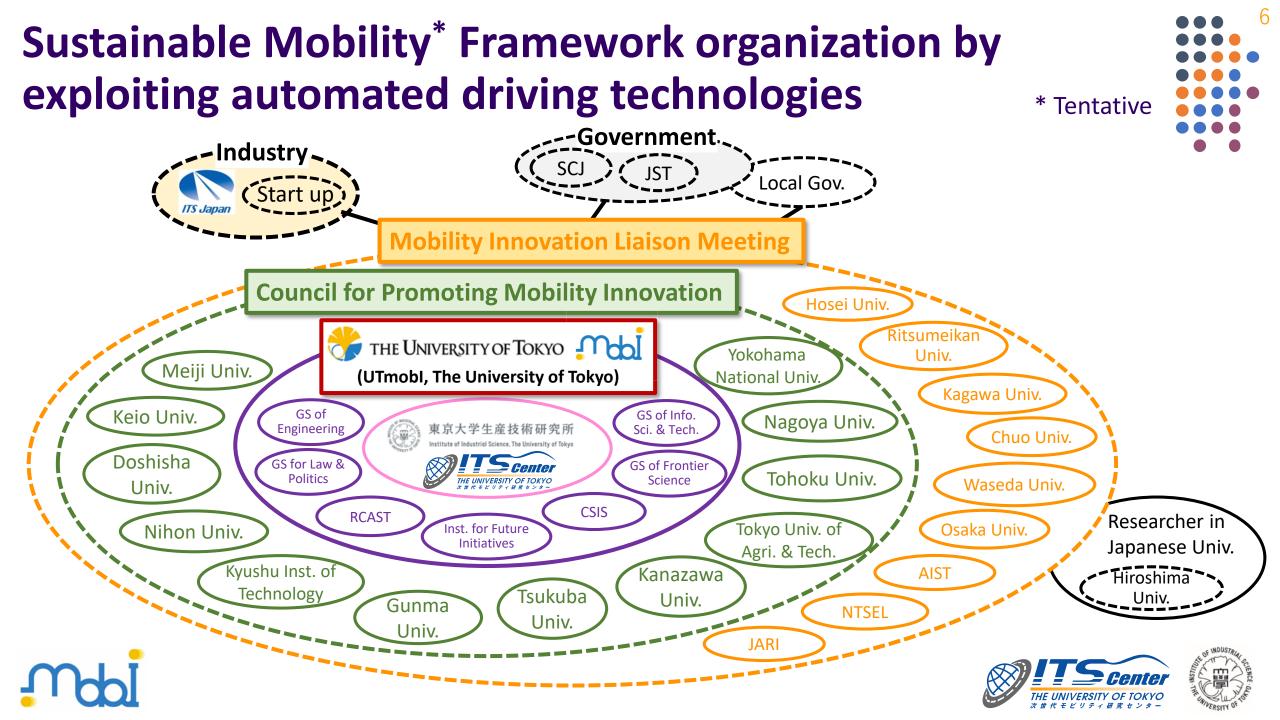
## Utilization by venture company of automated driving technologies (Kashiwa Open Campus 2019, The Univ. of Tokyo)



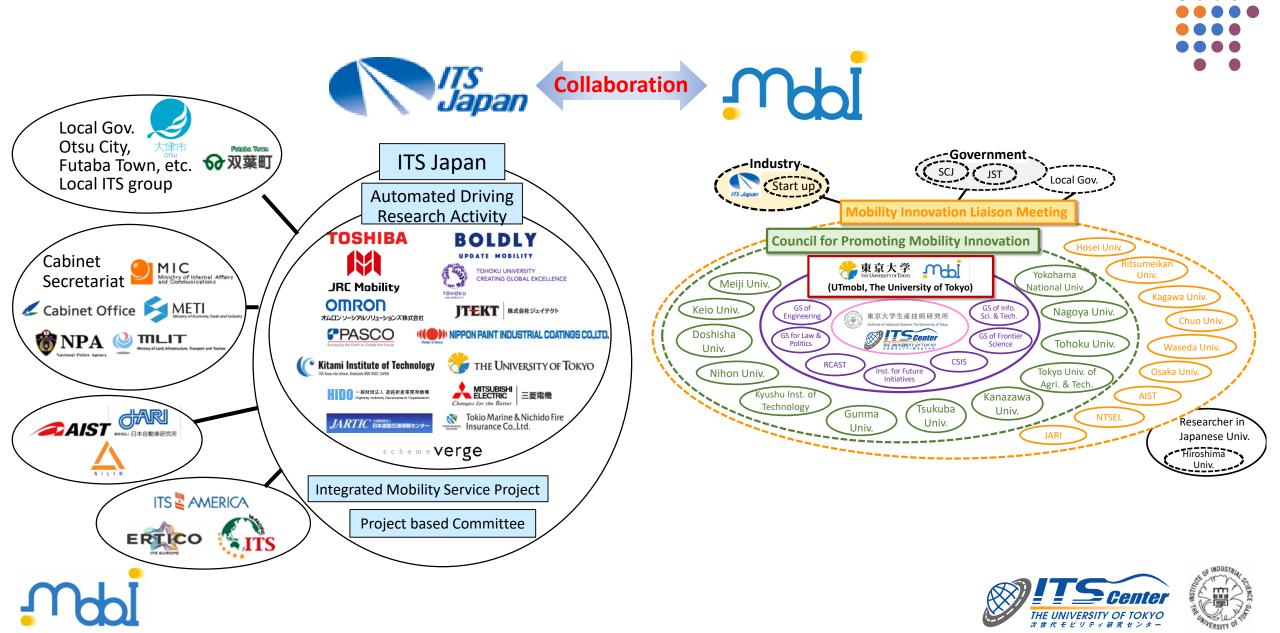






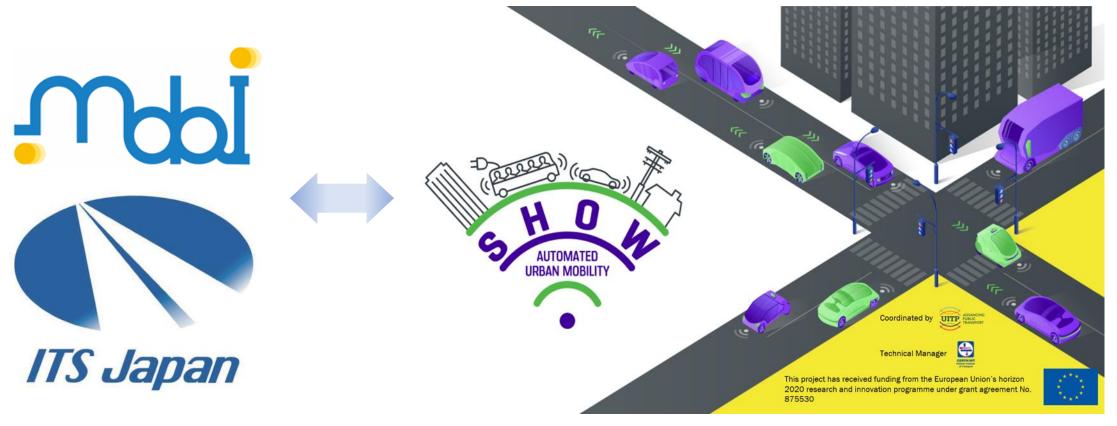


## **Consortium to realize Level 4 Mobility Services**



#### International Collaboration - Collaboration with SHOW project in Europe -

- NDA was concluded between SHOW and ITS Japan/Univ. of Tokyo.
- Discussion has been started for future collaborations.



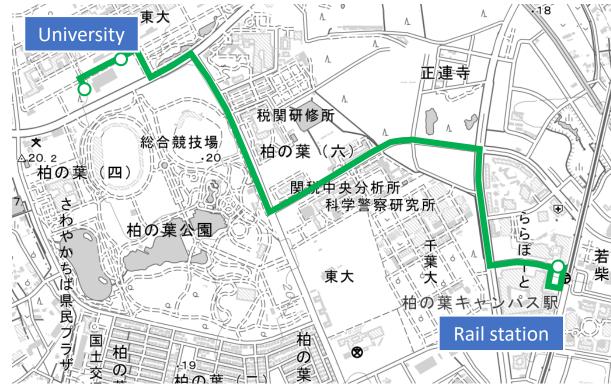






#### Long Term Automated Bus Pilot Deployment (Kashiwa-city)

Long term deployment since 1st Nov. 2019







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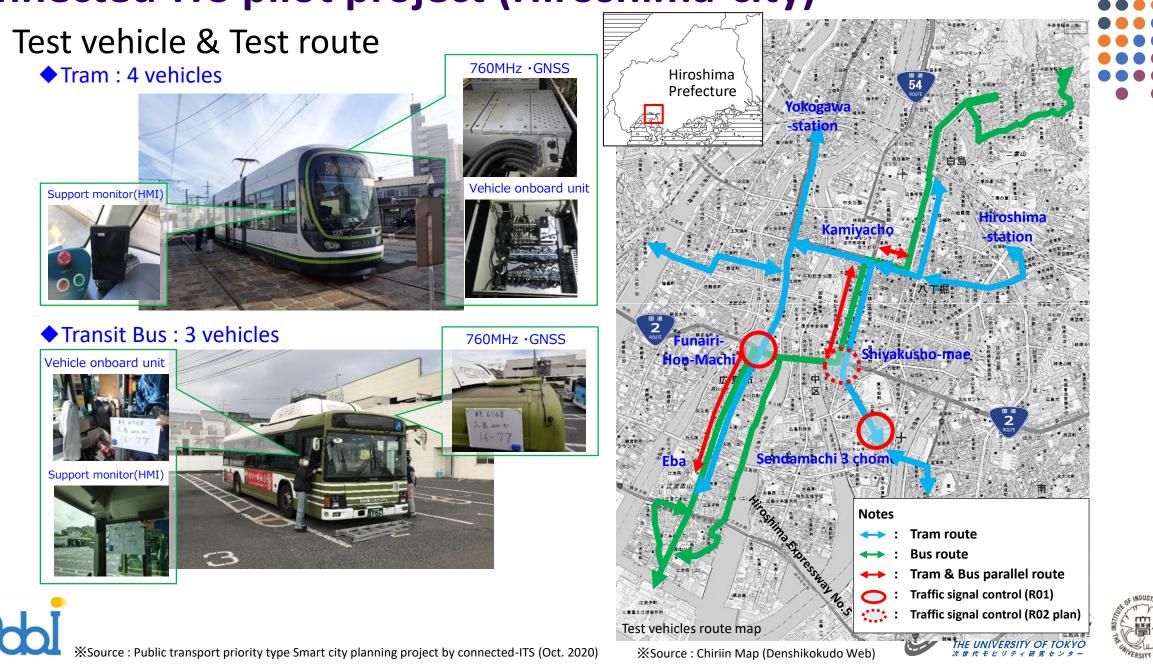


Source : Chiriin Map (Denshikokudo Web)

Connect between rail station and university by Automated Bus



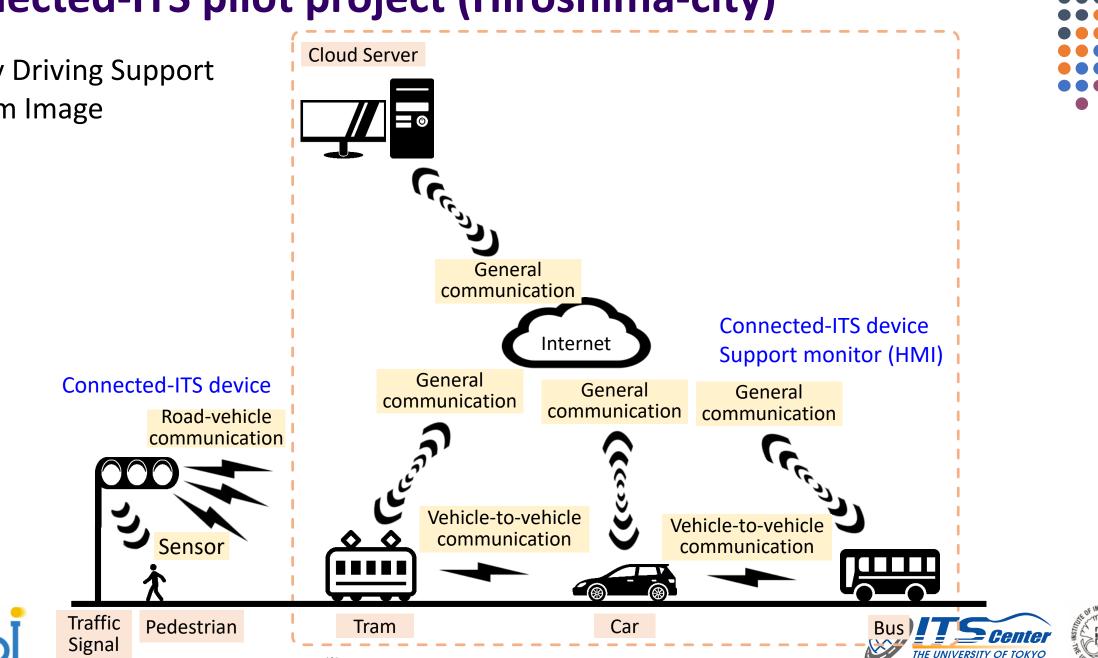
#### **Connected-ITS pilot project (Hiroshima-city)**



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## **Connected-ITS pilot project (Hiroshima-city)**

Safety Driving Support System Image

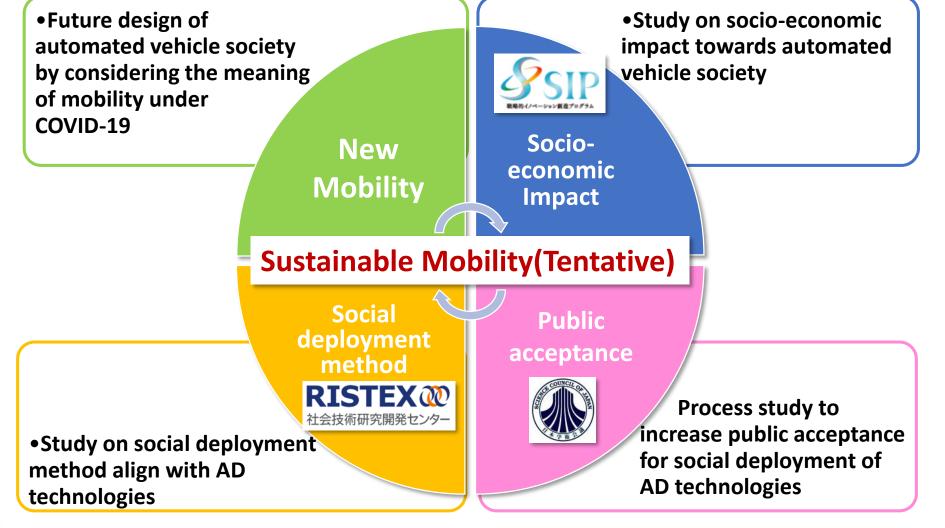


Source : Public transport priority type Smart city planning project by connected-ITS (Oct. 2020)

# Sustainable Mobility<sup>\*</sup> Framework by exploiting automated driving technologies

\* Tentative

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## **Mobility Vision for Post COVID-19**

#### **Suggestion**



- Address demand-flattening and utilize a surplus by demand-flattening.
- Further involvement by public authority for public transport business.
- Realize integrated mobility service by technology development and implementation of new mobility service and MaaS.
- Technology development and system design to contribute effective logistics and productivity improvement.
- Correspond to still-existing mobility demands.

Big wave of society change triggered by infection measures may be a good opportunity to proceed solving these issues, although some of issues cannot be implemented in the past.





## **Concluding Remarks**

- UTmobl and Mobility Innovation Liaison Meeting were established to enhance academia networking to challenge future Mobility Innovation.
- Mobility Innovation Liaison Meeting is promoting activities for Sustainable Mobility.
- Establishment of eco-system is important for sustainable automated vehicle operation.
- Pilot deployments in Kashiwa-city and Hiroshima-city are in progress.



