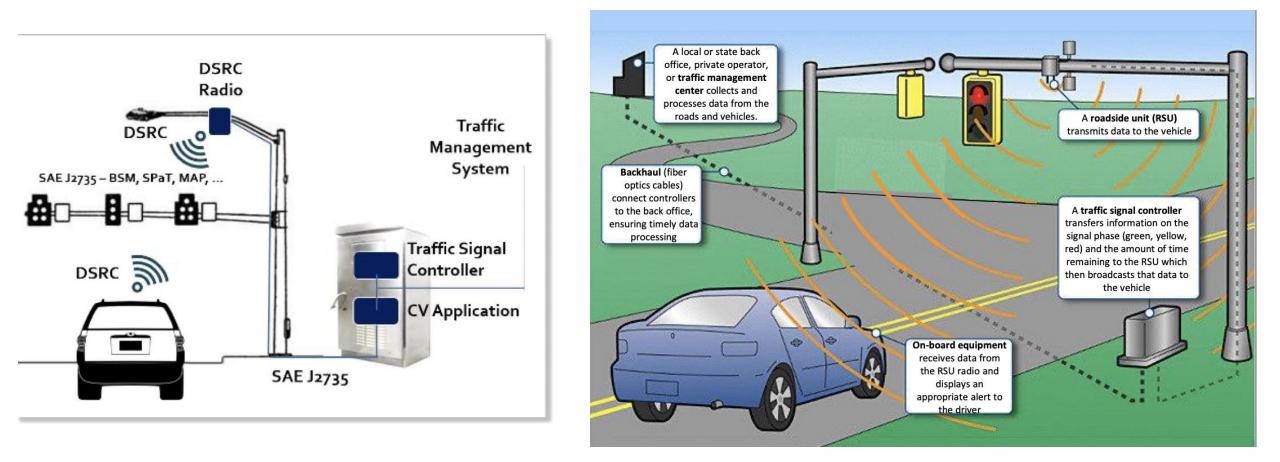
Use Case: Private & Public C-ITS Federation

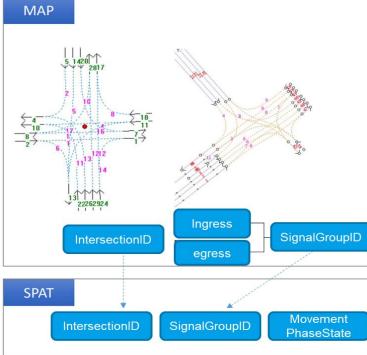
2023. 07. 20 MDKP Public WG Meeting #2

> Taesang Choi ETRI





V2X Messages (SPaT & MAP) - from SAE J2735 – broadcast to vehicle



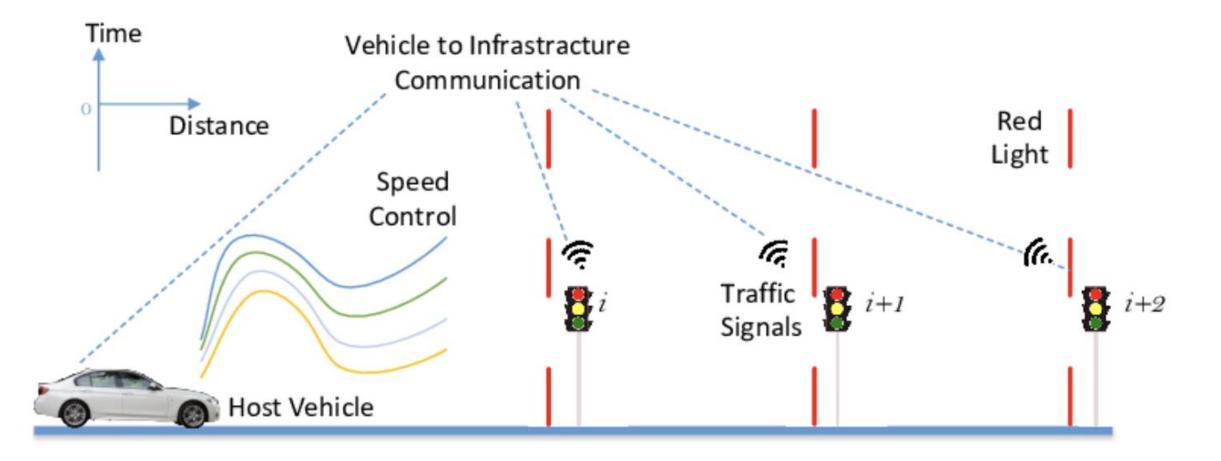


- SPaT (Signal Phase and Timing)

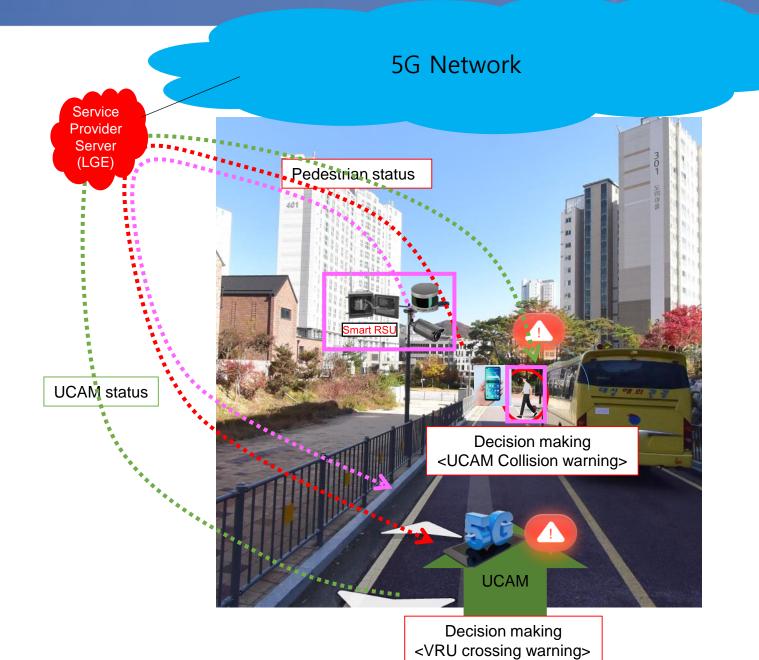
 current signal state
 time until change
- MAP (Intersection Map)

 geometry of the intersection

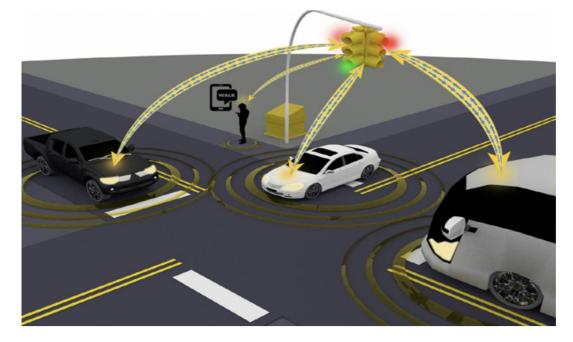




Soft V2X (LGE) UC #1 VRU safety in School Zone



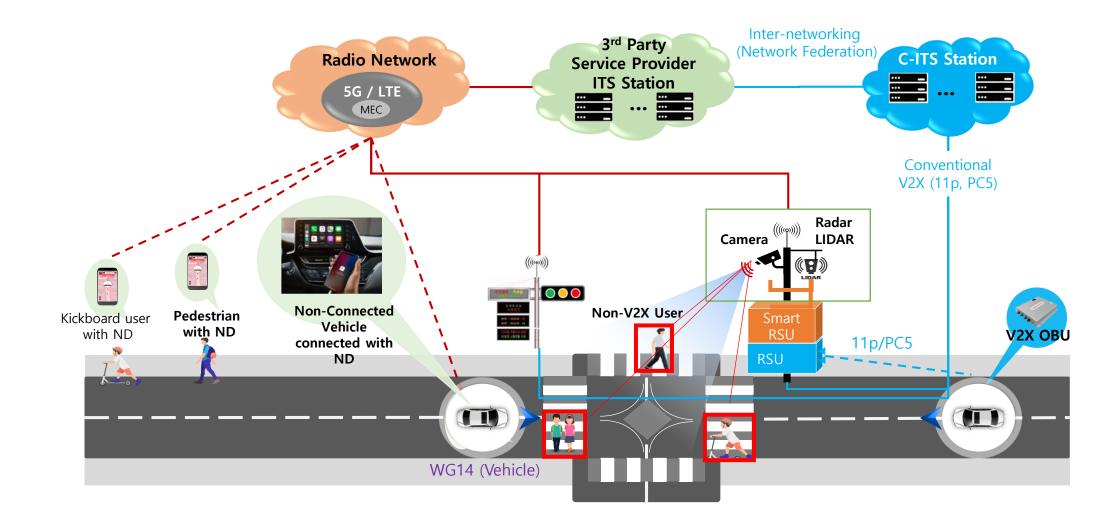
Traffic signals are an important part of the connected vehicle environment. They will help to prevent crashes by sharing messages between all nearby vehicles, infrastructure and even pedestrian cell phones.



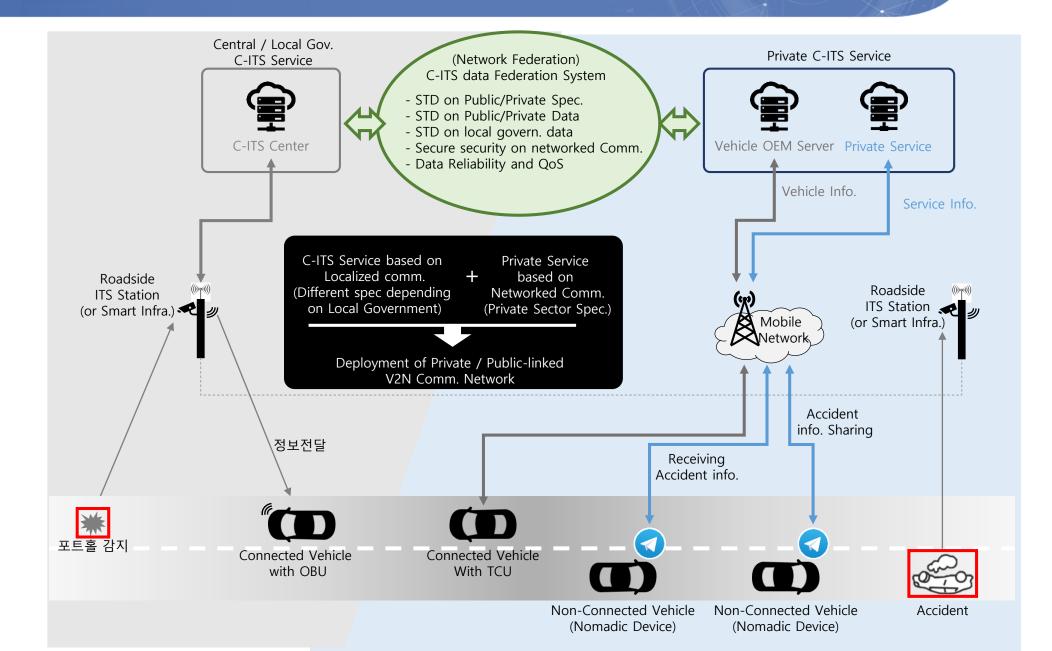
Images courtesy of the U.S. Department of Transportation



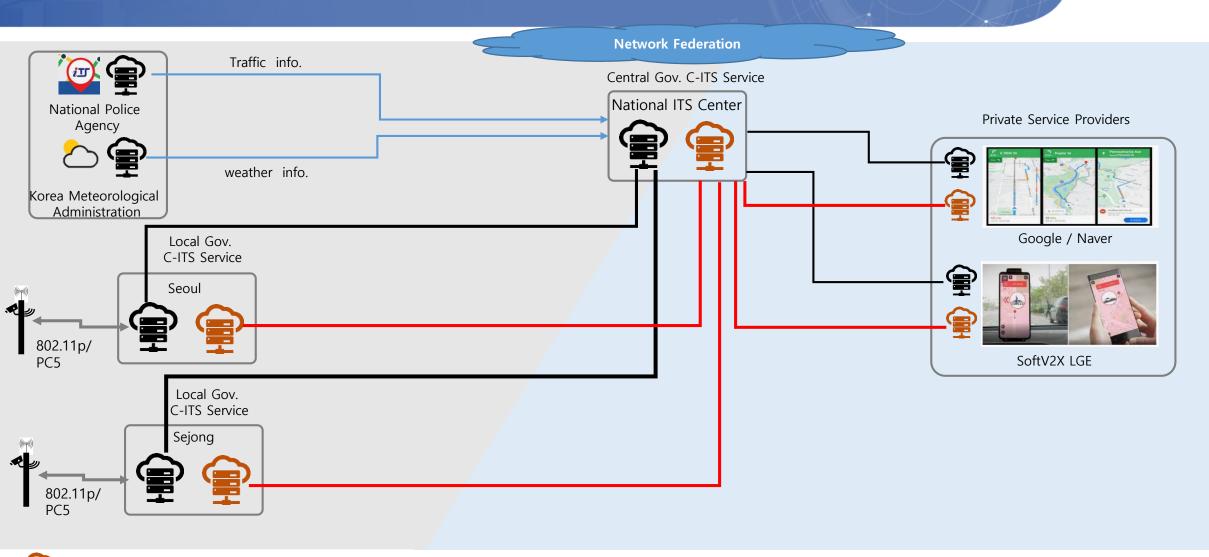


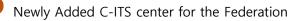


How to federate C-ITS service between public and private sector



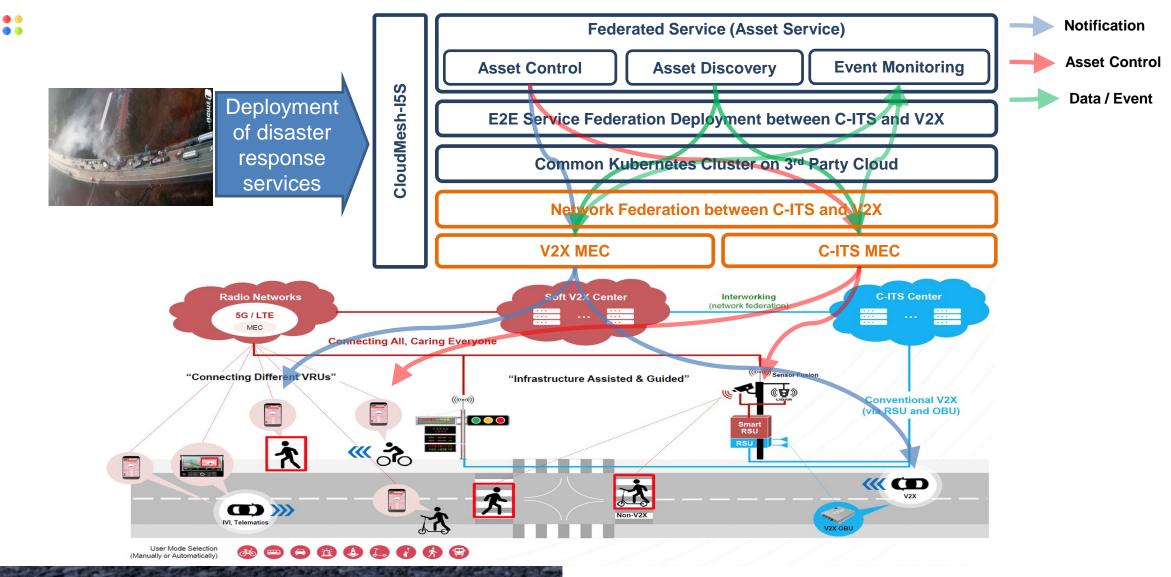
C-ITS service between public and private sector





Conventional C-ITS center

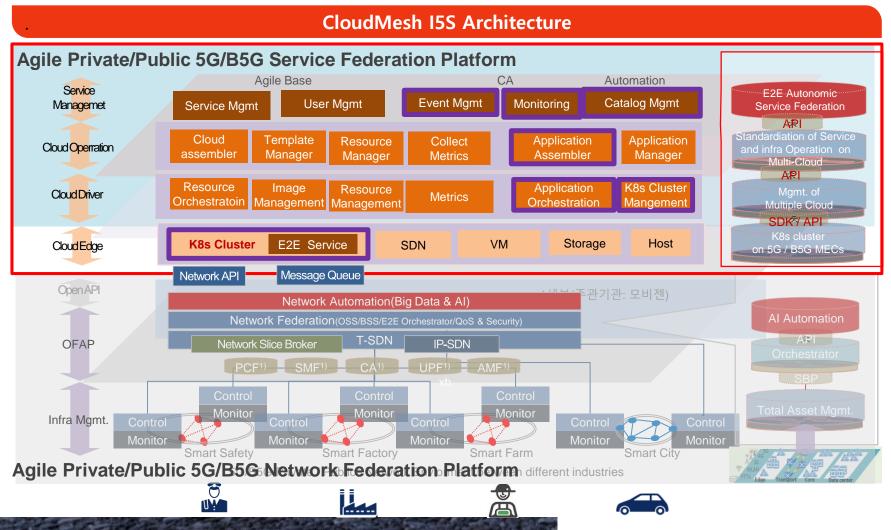
3. Disaster Response Service (PoC) based on C-ITS, V2X



I. 기술성

1. Cloud-based Open Autonomic Federation Platform – CloudMesh-I5S _

Provides a cross-industry E2E service federation in the 5G & Beyond Era, and a multi-cloud integrated operation platform for integrated management of multi-cloud resources.



Main Capabilities

- Orchestration of multi-cloud infrastructure (SDC, SDN, SDS on MEC), kubernetes cluster and application for a cross-industry E2E service federation in the 5G & Beyond Era.
- Design and build Service Federation Template and standard API for multicloud-based a cross-industry E2E service federation in the 5G & Beyond Era.
- Provides advanced user interface for lifecycle management of multi-cloud service
- Auto-Discovery of Assets (CCTV, drone, etc...) connected to the 5G Private Cloud