

## C-ITS Architecture

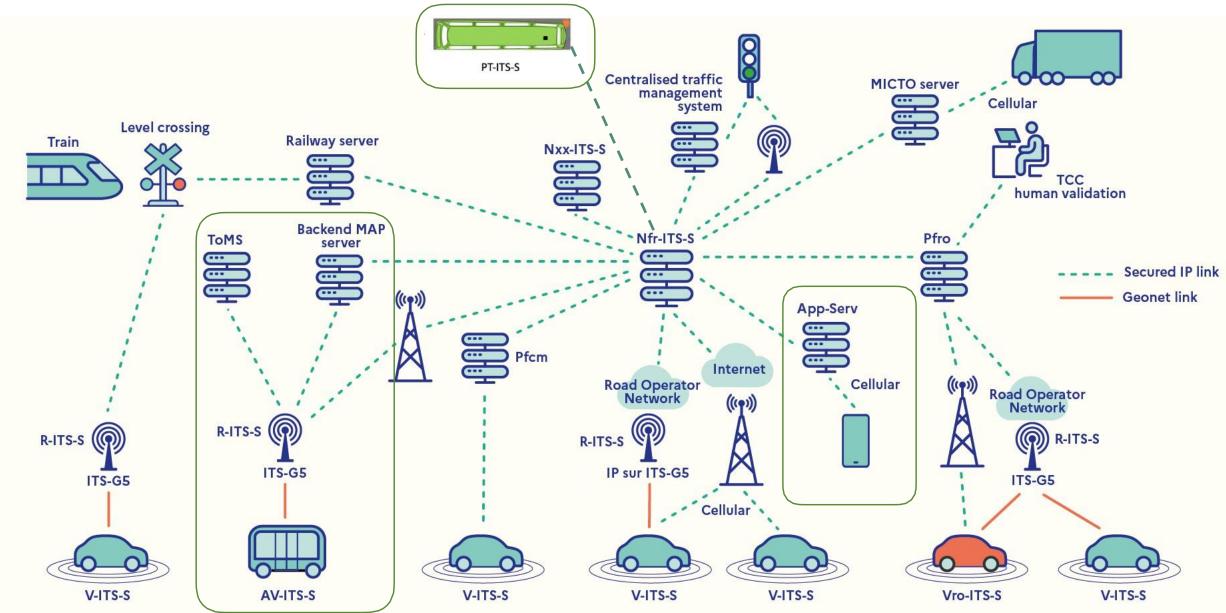
#### Hasnaa Aniss



InDiD – Infrastructure Digitale de Demain



### Architecture



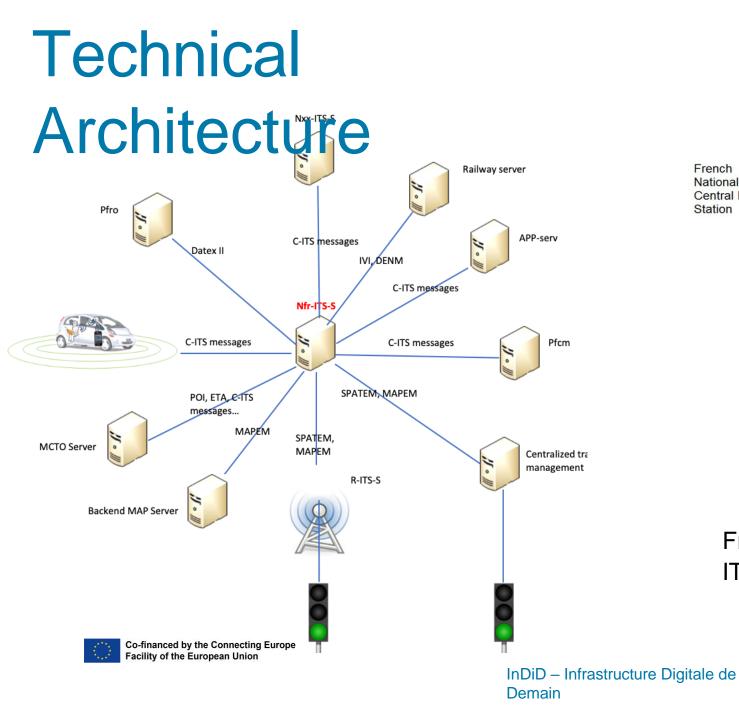
### Architecture

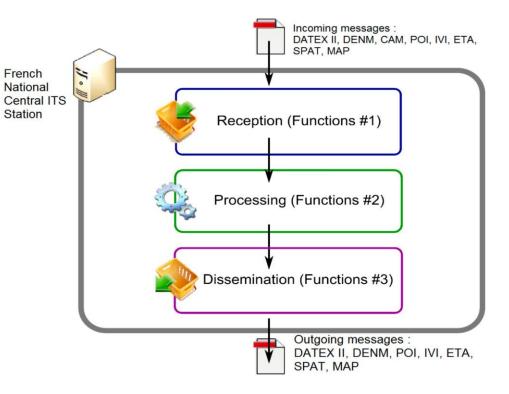
- . ITS-
- . G5/4G/5G/Hybrid
- Seamless
- connectivity
- Security on geonetworking layer

Equipment are most of them on the C-ITS trust domain

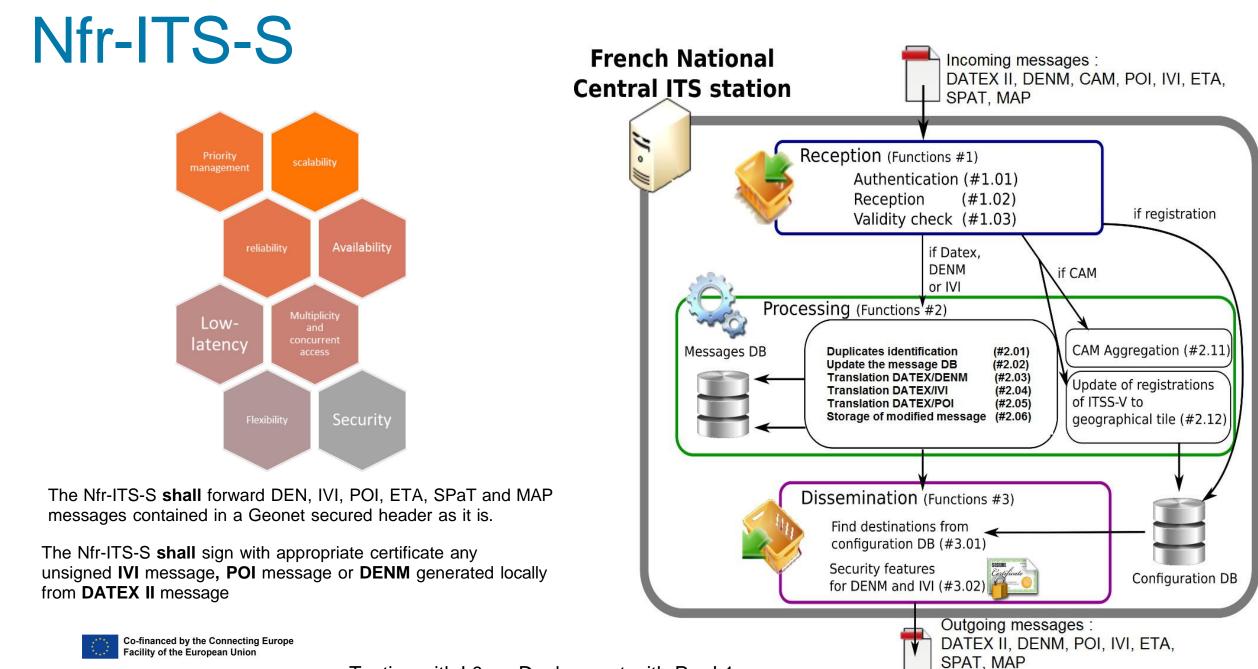
Except equipment of road operators like TMS and the smartphone but with secured links





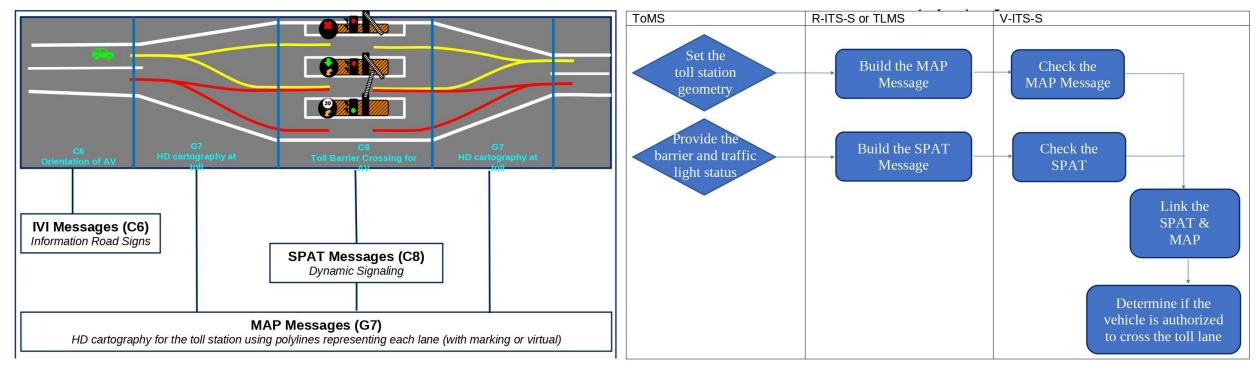


From French architecture point of view : Super R-ITS-S From European point of view: Broker



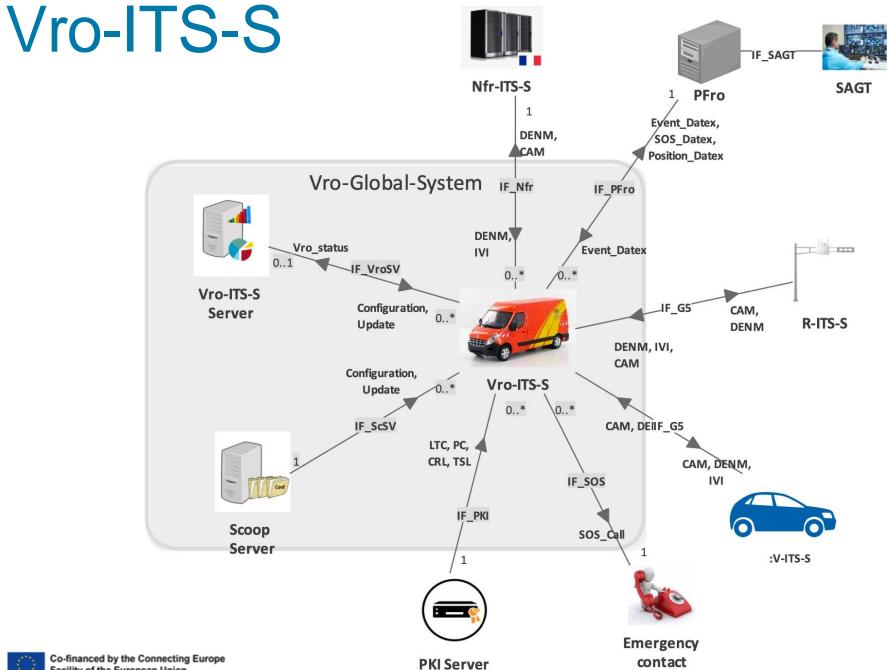
Testing with L0. Deployment with Pre-L1

# ToMS: Toll Management



### **Toll Barrier Crossing for Automated Vehicles**





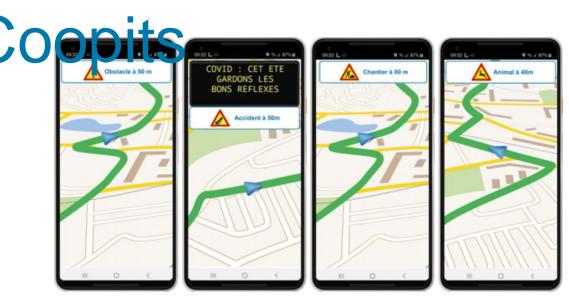
- Hybrid connectivity
- Road operators work functionalities
- User Mode
- Operator Mode

11/06/2024





## Smartphone application:

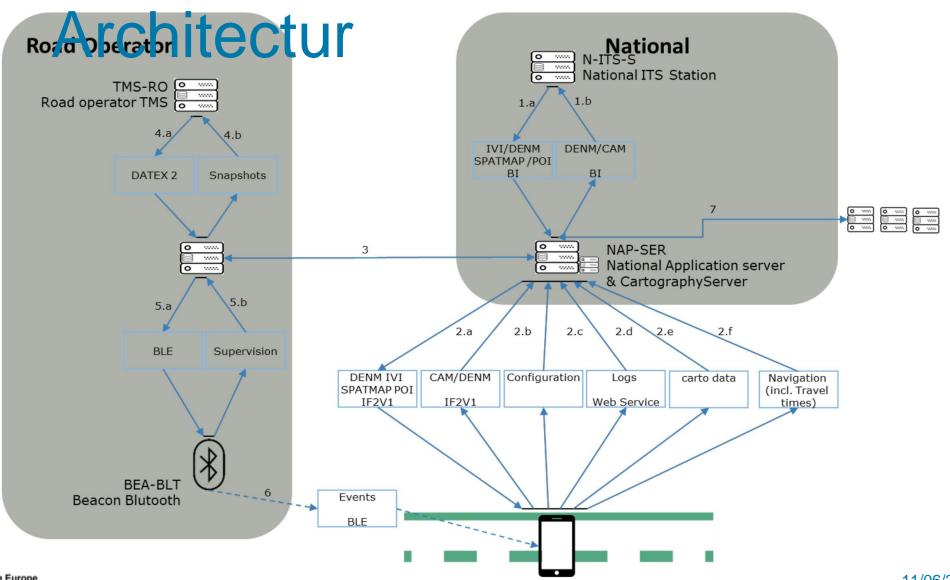




Co-financed by the Connecting Europe Facility of the European Union





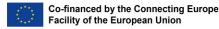


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Co-financed by the Connecting Europe Facility of the European Union



- Complexe, functional et full operational Architecture
- Multiples
  actors
- Fully Hybrid
- An architecture that has grown with each project, enabling the integration of new actors and services



# Thank s!

