

POLIS

CITIES AND REGIONS FOR TRANSPORT INNOVATION

regio arnhem
nijmegen



EMT MADRID

SHOW and AUTO-BUS

Roadmap towards automation of EMT buses

Sergio Fernández Balaguer

International Collaboration projects
department, EMT MADRID

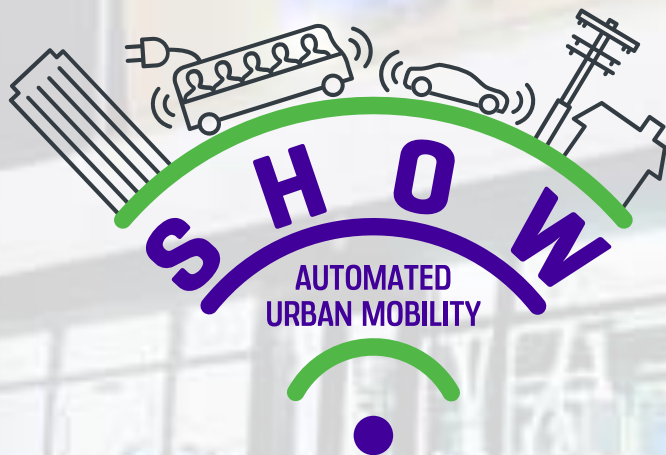
Annual Conference 2020



#POLIS20



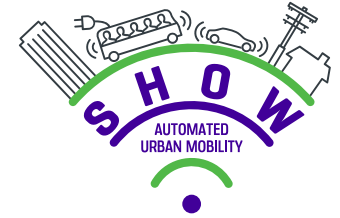
AUTO-BUS



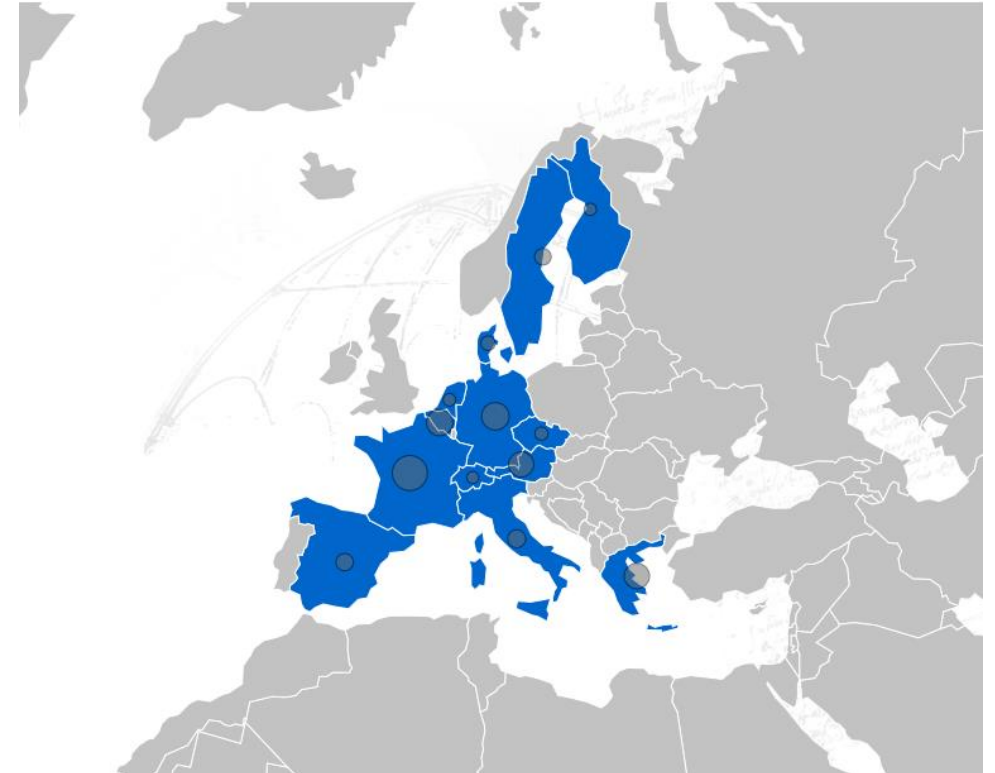
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 875530



SHOW- Shared automation Operating models for Worldwide adoption

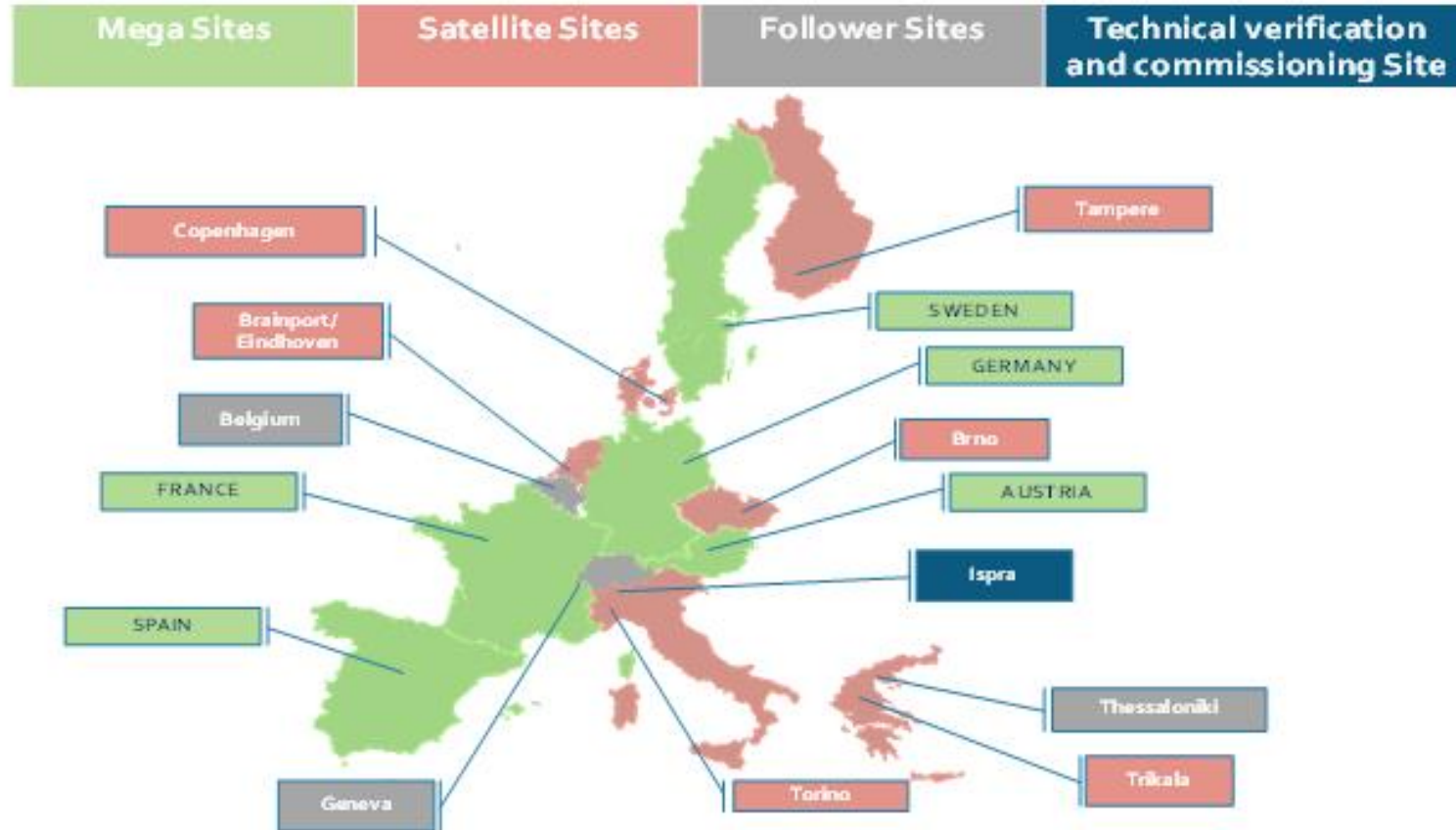


- Coordinated by UITP that includes **69 top-level partners** from all over Europe (companies, operators, technology providers, associations, research centers, etc.) as well as additional support from **60 organizations** and twinning actions with **11 EE organizations**. .US., South Korea, Australia, China, Taiwan and Singapore
- It is the **largest and most comprehensive urban demonstration initiative of connected autonomous vehicles in real conditions** carried out in Europe to date
- Total budget for the entire consortium: **36 million euros**

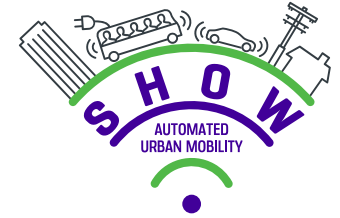




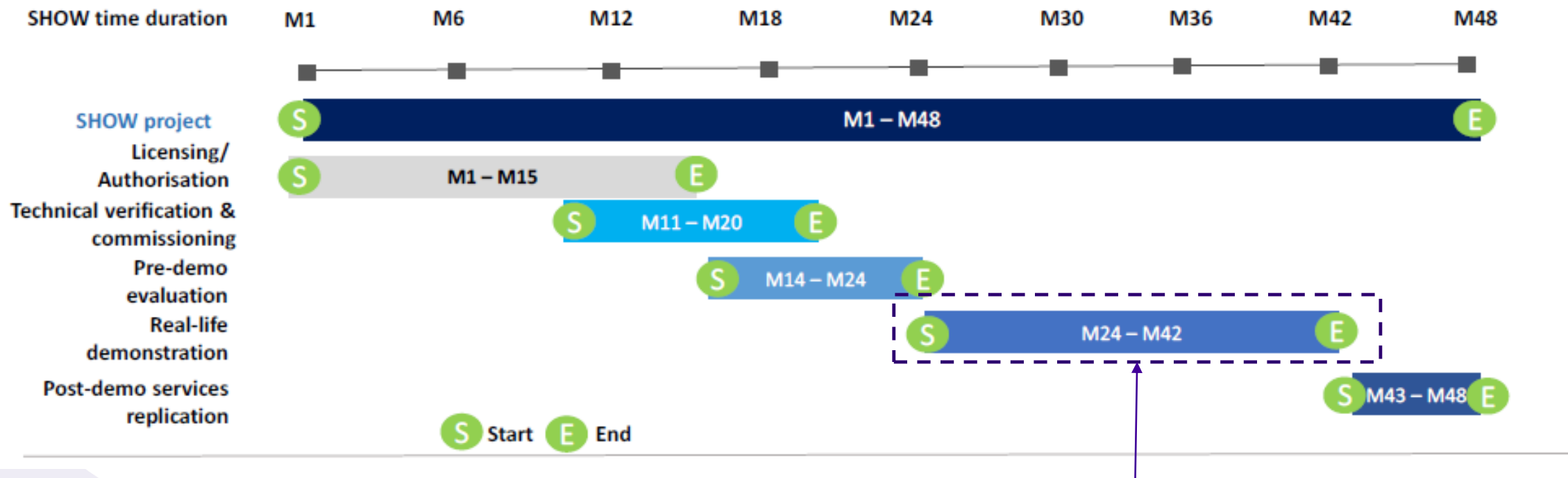
Demo sites and vehicles (selection)



SHOW- SHared automation Operating models for Worldwide adoption



Started last January 1st, 2020 (4 years)



Real-life urban demonstration, with real service seamless operation in each pilot site lasting at least 12 months

Madrid mega site partners and objective



1 x i2eBus
Electric
SAE* L3



indra



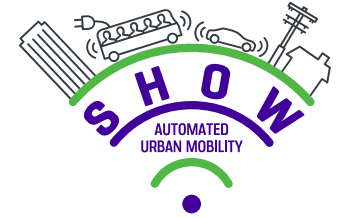
2 x Gulliver
Electric
SAE L2
(1 under the
AUTO-BUS
project)



2 x Renault Twizy
Electric
SAE L2



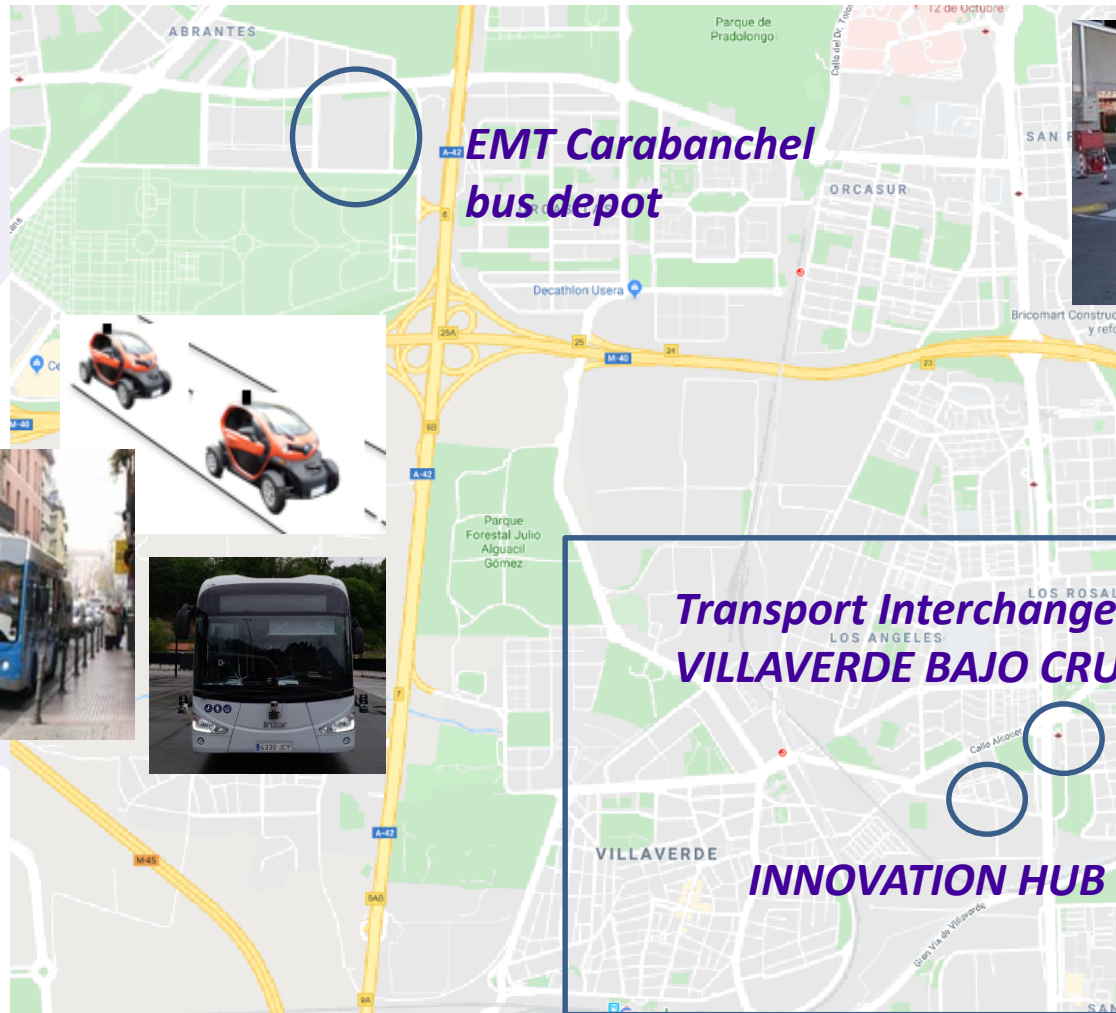
2 locations/pilot sites in Madrid



- In an **open environment**: Autonomous shuttle in real traffic conditions between “La Nave” (Madrid Innovation Hub) and the Villaverde Bajo-Cruce interchange station, providing a public passenger transport service
- In a **semi-controlled environment**: at the EMT Carabanchel bus depot, for self-guided operations to parking, washing, workshop and refueling (**AUTO-BUS project, funded by CDTI**)

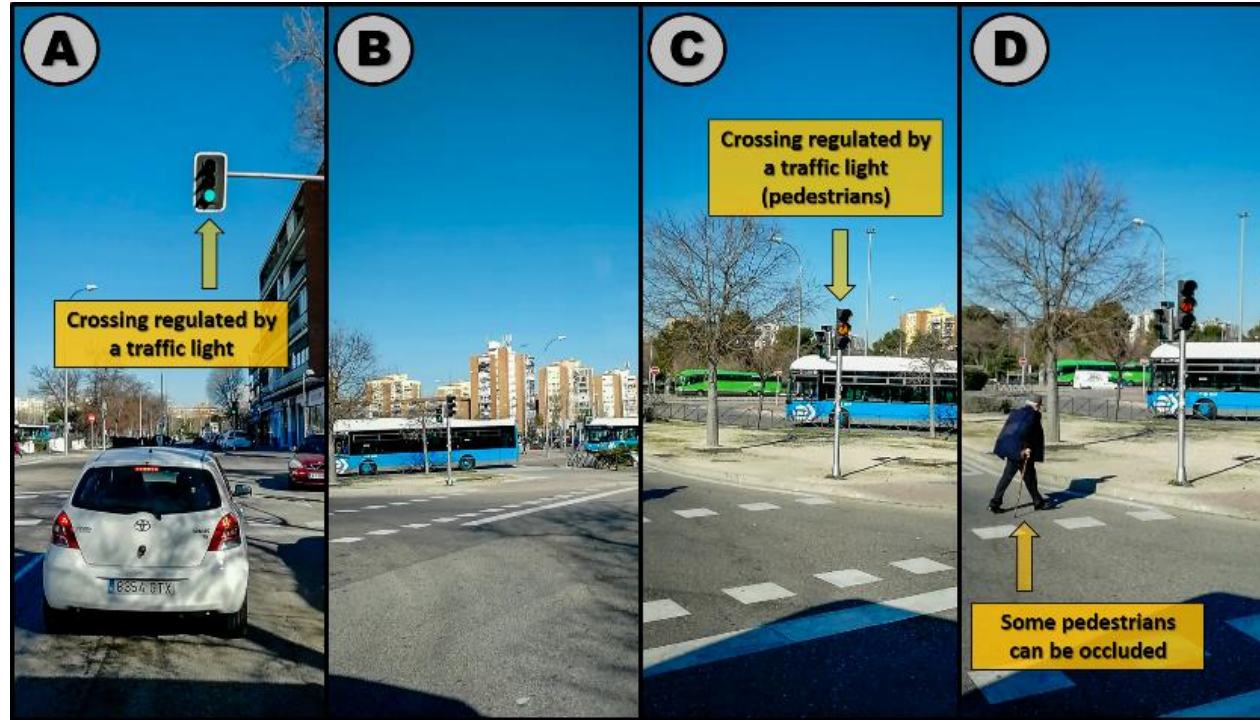


SHOW: Madrid Mega pilot – Locations

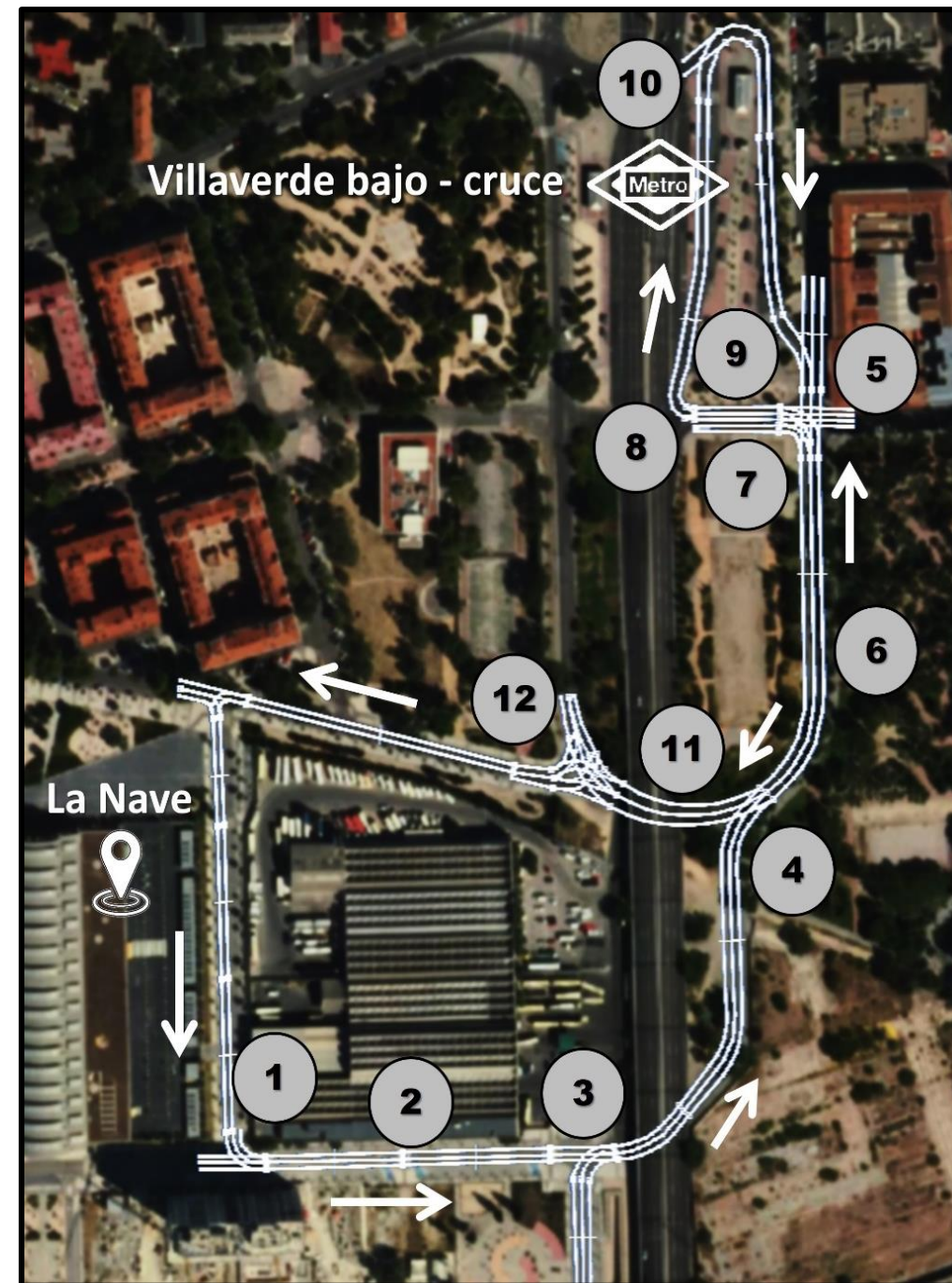




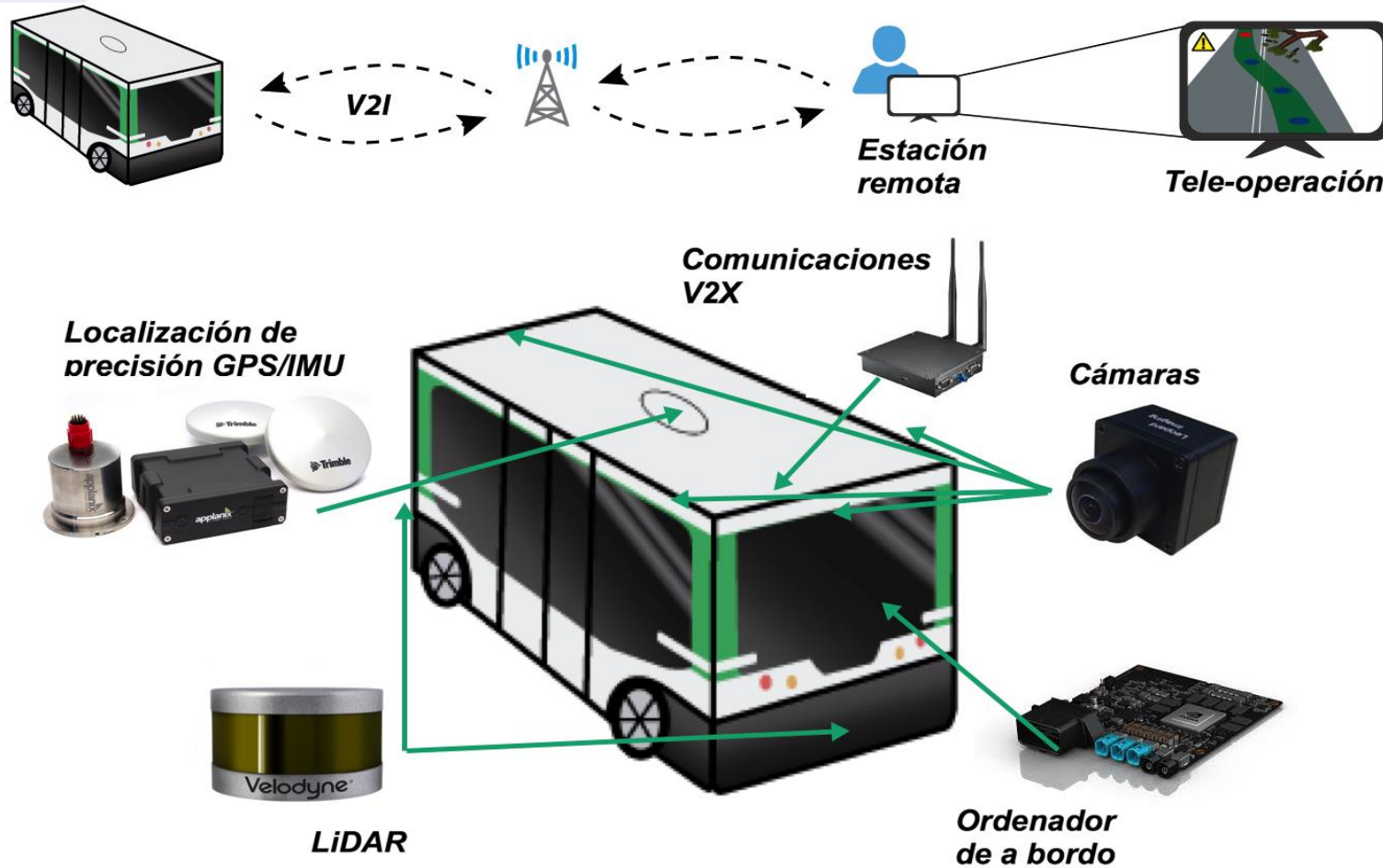
Examples of road interactions



Location 7: traffic lights sincronization



AUTO-BUS project



Thanks!



- Sergio.fernandez@emtmadrid.es
 - Website: www.show-project.eu
 - LinkedIn: <https://www.linkedin.com/company/showh2020/>
-  @show h2020

POLIS Conference 2020



#POLIS20