

Allbesmart experience with Fed4FIRE+

Paulo Marques

19 May 2021

www.allbesmart.pt

Fed4FIRE workshop @ NGI Forum

Outline

- Allbesmart LDA - Who we are
- Fed4FIRE SME OC experiment
- Business impact

Allbesmart LDA

- ALLBESMART is a SME from Portugal funded in 2015 specialized in wireless connectivity and IoT solutions.
- The team has more than 10 years' experience on telecommunication projects at international level.
- With a strong network of research partners and scientific background, we put a component of innovation in all solutions, exceeding customer expectations.



Vehicular Communications (C-V2X)



5G C-V2X will unlock the potential of autonomous driving



Vehicle-to-network
V2N

Vehicle-to-pedestrian
V2P

Vehicle-to-infrastructure
V2I

Vehicle-to-vehicle
V2V



Smart Highway testbed in Antwerp (imec)



Smart Highway testbed in Antwerp (Belgium) provided by imec

Real life, real time, large scale...



... testing and validating

1. Test bed infrastructure
 - LTE-V innovative technologies
 - Installation RSUs (and OBUs)
2. Hybrid communication
3. Multi-access Edge Computing
4. Smart localization
5. Driver monitoring
6. Security and data protection
7. Regulation and policy
8. Cost & business modelling
9. Traffic modelling
10. Impact assessment

V2X testbed

Parallel studies

Smart Highway testbed in Antwerp (Belgium) provided by imec

- Roadside Unit's cabinet installed in the E313 highway in Antwerp



Allbesmart business impact



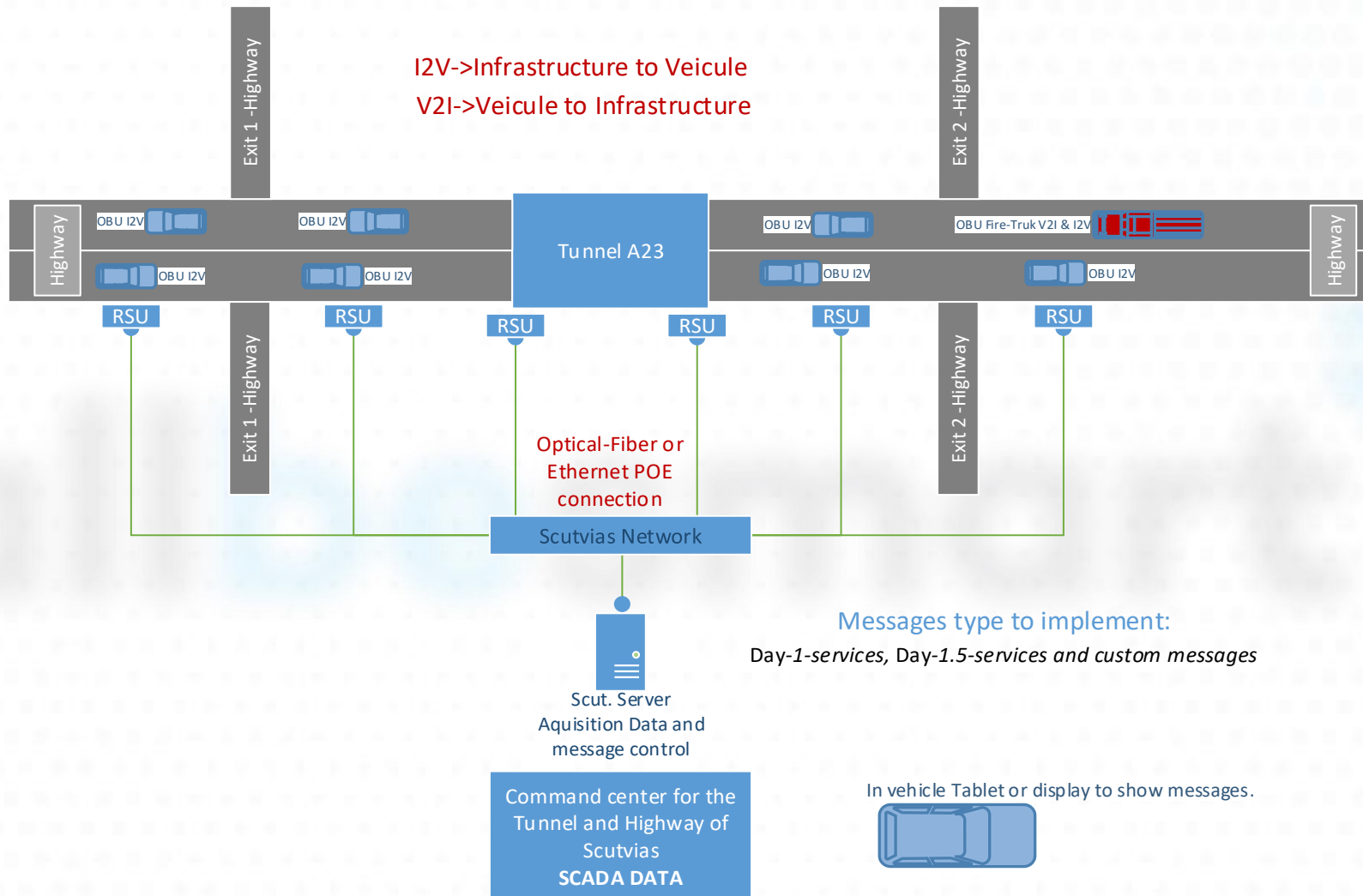
C-ITS project for the road operator Globalvia in the A23



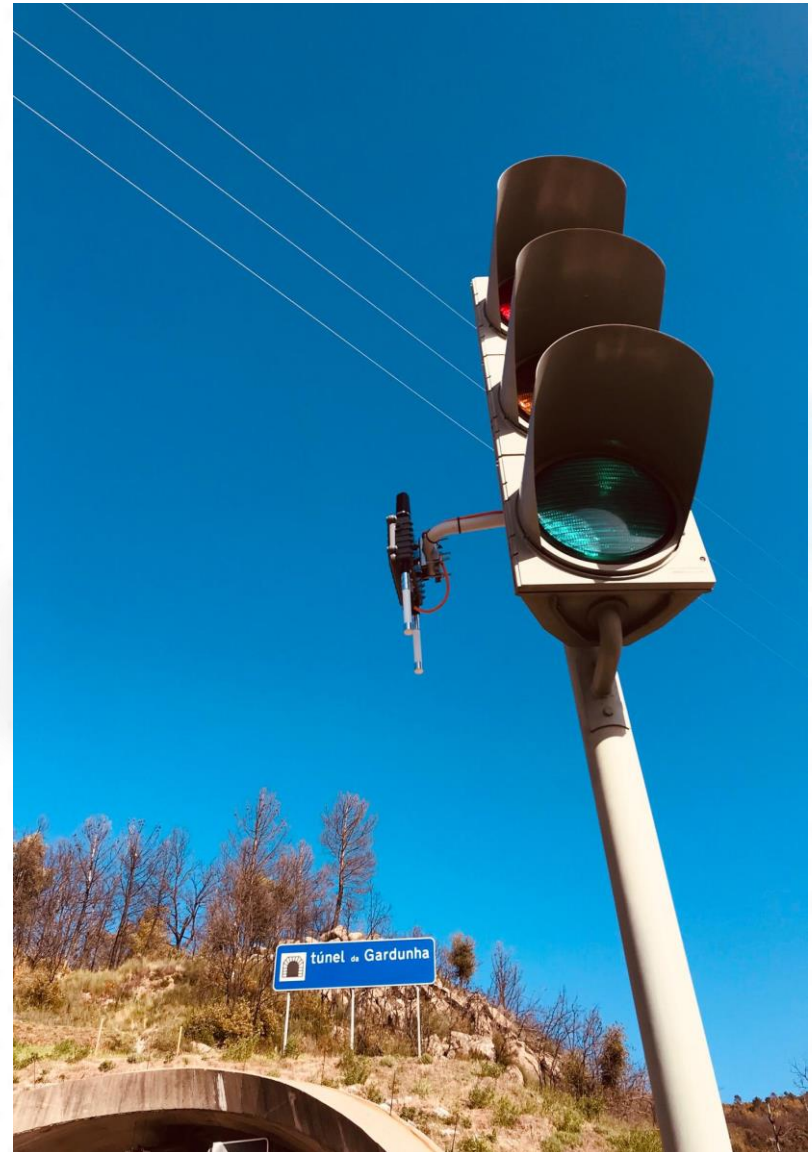
C-ITS project for the road operator Globalvia in the A23



Arquitetura da rede de comunicações instalada pela Allbesmart



RSU deployed in the A23 highway



OBU in drive tests vehicles



Business impact

- ALLBESMART doesn't have access to the range of ITS and V2X equipment available in the Smart highway testbed.
- Fed4FIRE+ experiment was a crucial step in our product development process.
- This Fed4FIRE+ experiment has enabled us to speed up our prototype demonstration in operational environment (TRL7), complete it and qualify it for commercial adoption (TRL8).
- The showcase was very important to attract clients for our C-ITS solutions.

Great points of H2020 Fed4FIRE

- Access to state-of-art experimental facilities
- You can get financial support
- Remote access and technical support
- Low administrative burden compared with other H2020 projects

Thanks !

pmarques@allbesmart.pt

