Allbesmart experience with Fed4FIRE+

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Fed4FIRE workshop @ NGI Forum
Outline

- Allbesmart LDA - Who we are
- Fed4FIRE SME OC experiment
- Business impact
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
Smart Highway testbed in Antwerp (imec)
Smart Highway testbed in Antwerp (Belgium) provided by imec

Real life, real time, large scale...

First focus
(E313 highway leaving Antwerp)

... 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
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

I2V->Infrastructure to Veicule
V2I->Veiucle to Infrastructure

Messages type to implement:
Day-1-services, Day-1.5-services and custom messages

In vehicle Tablet or display to show messages.
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!

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