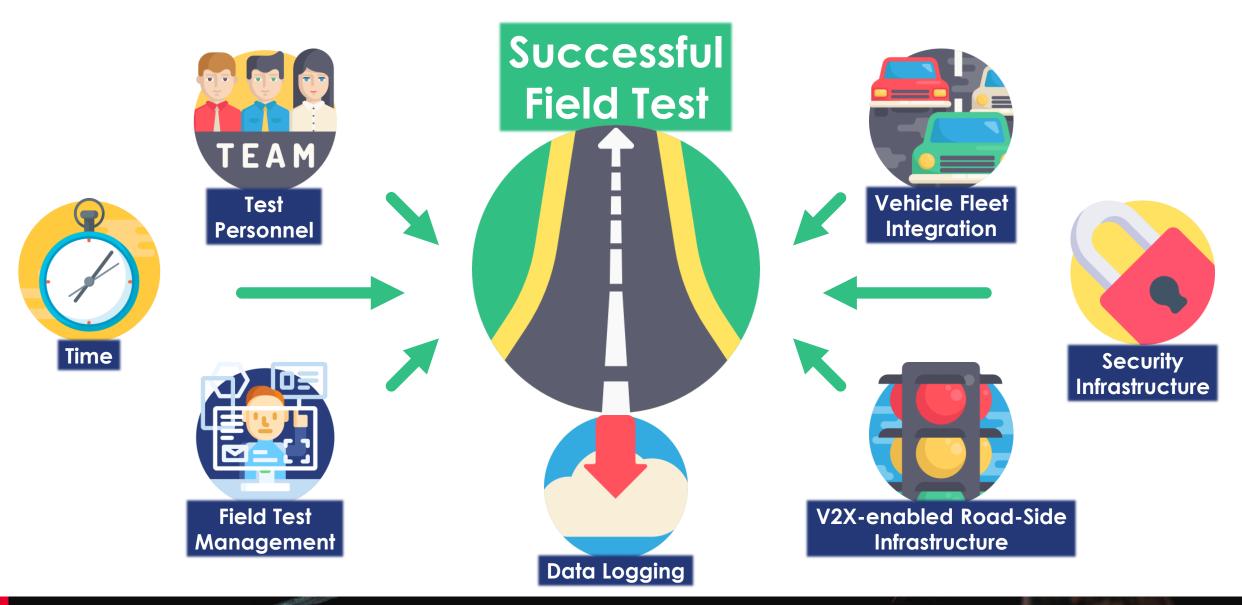




Resource intensive task = Challenge





Facing challenges with modular based approach

V2X module

Evaluation Kit

Yocto

Docker

Applications

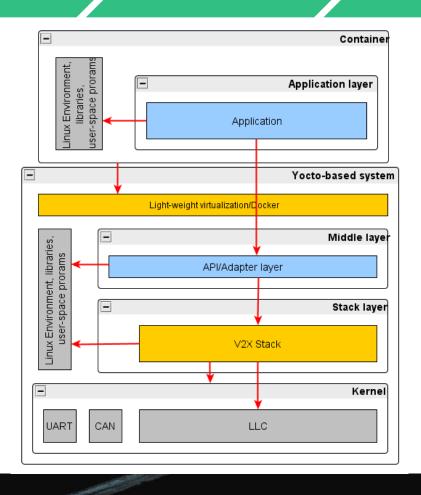
LTE module

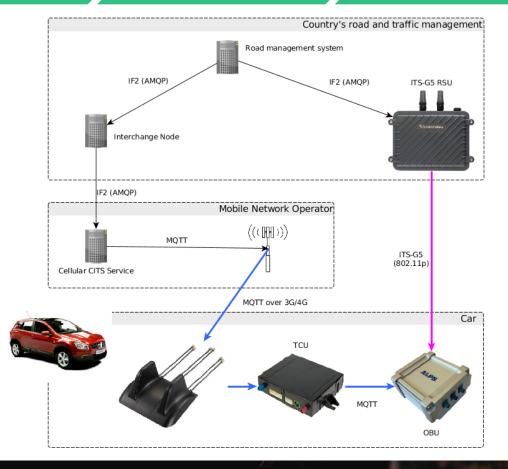
MQTT Broker

AMQP Client

Interchange Node

Road Management System







Vehicle integration

- V2X Evaluation Kit
 - V2X module
 - 。 GNSS DR
 - Host CPU V2X Stack
- V2X GNSS combo antenna
- Vehicle CAN sniffing
 - CAN message interpretation
- Inertial Measurement Unit
 - Vehicle dynamics





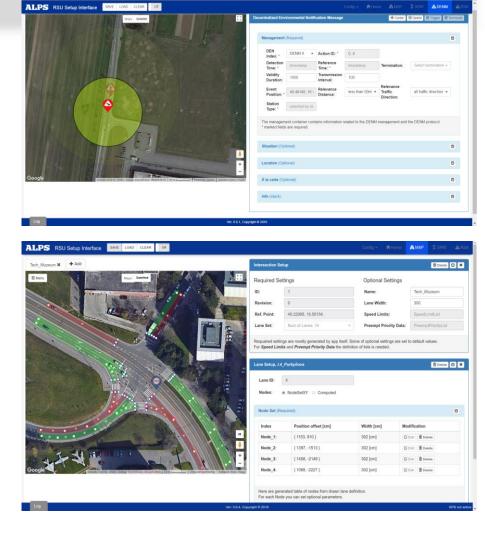




Setup & GO RSU

Short Time-To-Test (EU/US)

- Simple lane and crossing segments drawing (MAP)
- Detail defining hazardous situation (DENM/RSA)
- Traffic light signal phase and timing definition + synchronization (SPAT)
- In Vehicle Information (IVI / IVS) definition and UI overview



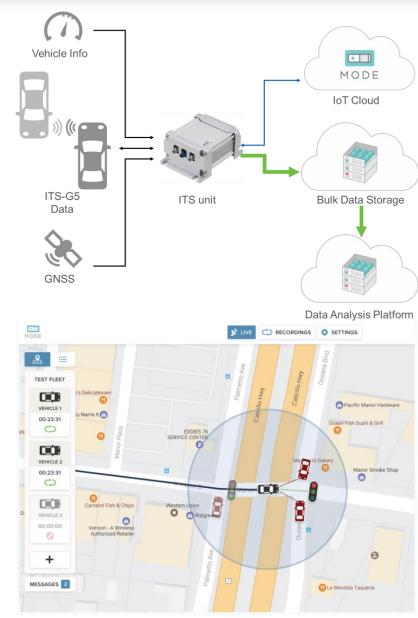






Cloud base logging and presentation

- Data logging
 - Multi vehicle synchronised logging
 - V2X Events and Notifications
 - Custom data logging
 - Cloud disconnect data buffering
- Data presentation & processing
 - Real time situation overview
 - Graphical log replay
- Selective data download

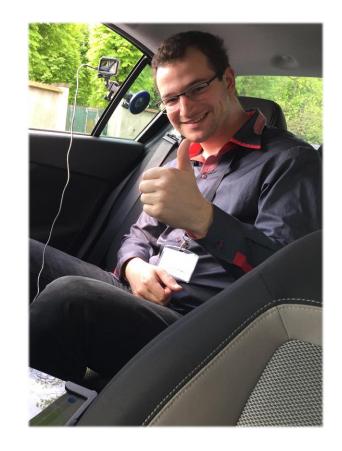




Successful stories

- Antwerp March 2019 (BE) Hybrid + PKI; 12 teams; RWW, IVS, GLOSA
- Kent & London October 2018 (UK) –Hybrid; 17 teams; RWW, IVS, GLOSA
- Reims April 2018 (F) ITS-G5 + PKI; 19 teams; RWW, IVS
- Dordrecht July 2017 (NL) –ITS-G5; 16 teams; RWW, IVS

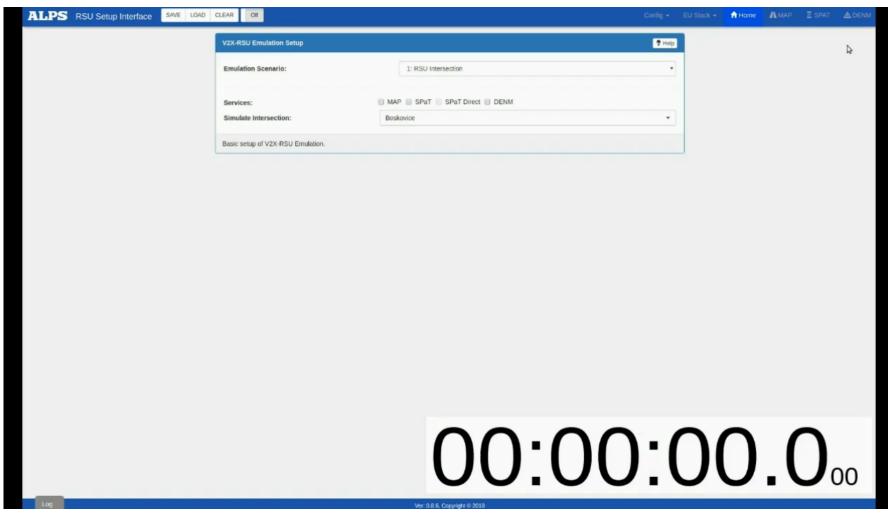






Successful stories

Utilizing the system on real scenario:



https://youtu.be/T2IBN-2It8s