



Connected vehicles - C-ITS

C-ITS

- V2V communication: in-vehicle sensors collect and transmit data to following vehicles
- V2I communication: data is transmitted to road operator TMC
- I2V communication: TMC transmits information to the vehicle related to its position

C-ITS goals

- Improve road safety
- Improve road worker safety
- Improve traffic information services
- Develop new services

C-Roads Project

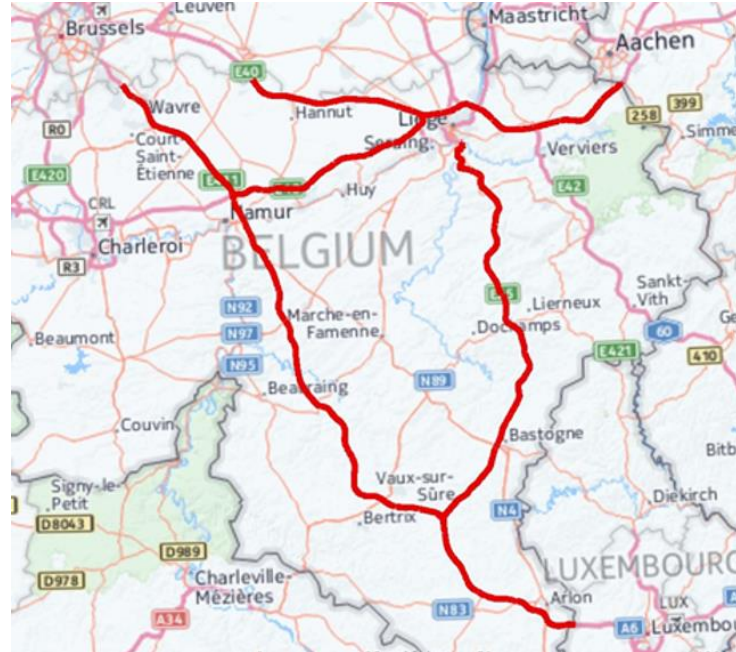


- Belgium/Wallonia is member of C-Roads Platform
- C-ITS deployment pilot to be launched Q1 2019 and demonstrated Q4 2019
- Partners

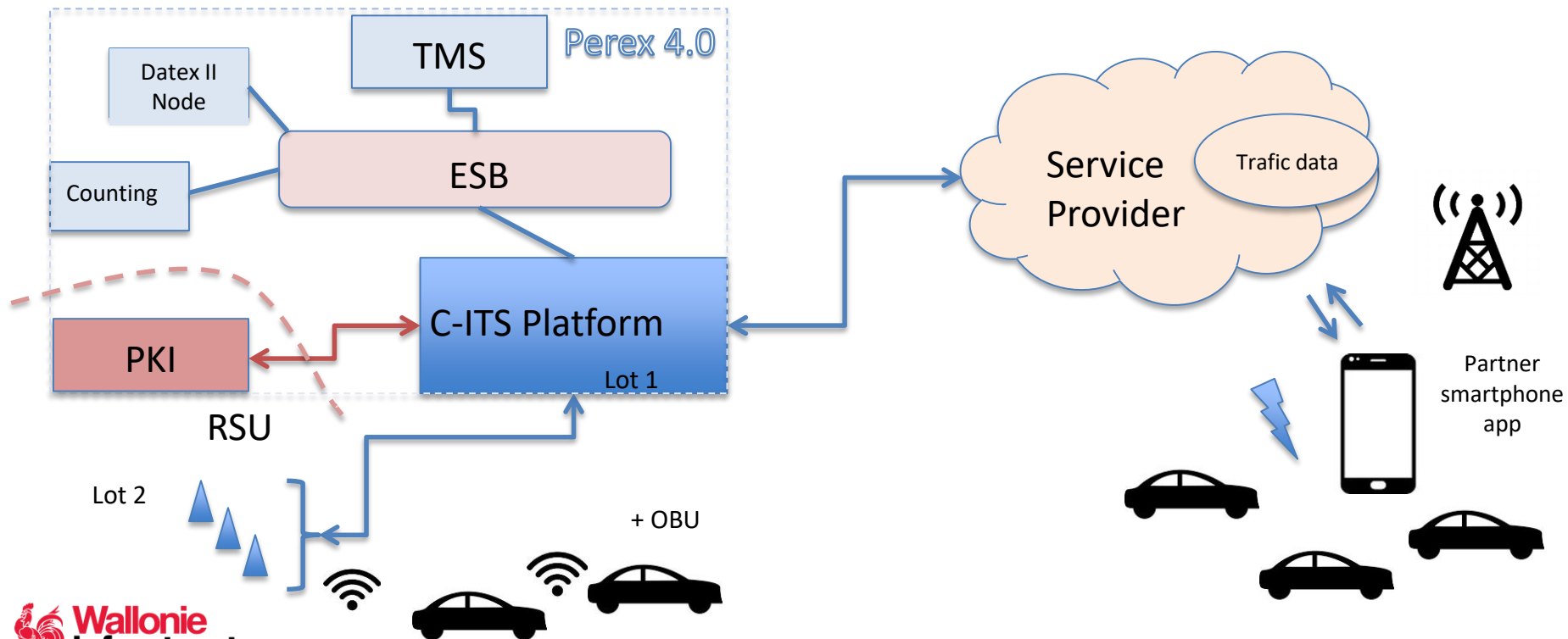


Belgium/Wallonia Pilot Scope

- Pilot coverage
 - A3 (E40)
 - A4 (E411)
 - A26 (E25)
 - A602 (E25/E40)
 - A15 (E42)
- Test C-ITS service chain connecting road users to TMC
- Improve traffic information services
- Involve private sector
- Assess both technologies G5 & **cellular**
- Interoperability testing (test car)

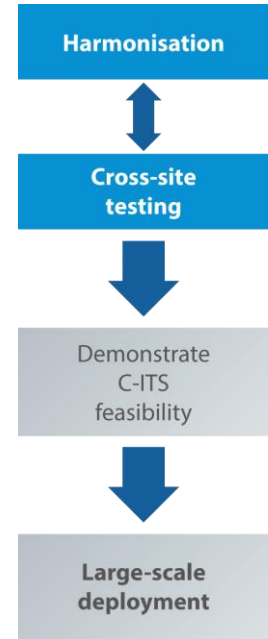


C-ITS Architecture



C-ITS Use cases

- Day-1 services
 - SSV : Slow or stationary vehicle warning [4 cases]
 - TJAW : Traffic jam ahead warning [2 cases]
 - OHLN : Other hazardous location notification [14 cases]
 - RWW : Road works warning (incl. winter maintenance) [6 cases]
 - WCW : Weather conditions [8 cases]
 - WMJ : Shockwave damping, wide moving jam [3 cases]
 - IVS : In-vehicle speed limits [3 cases]
- Day 1,5 services
 - SPIM : On-street parking information and management



Procurement

- C-Roads Platform (lot 1)
 - Traffic conditions/Incident: collect, manage, warn/inform
 - Geotracking management
 - Vehicle data collecting
 - Equipment Monitoring
 - Reporting
 - Security
- C-Roads UBR (lot 2)
 - Traffic conditions/Incident transmission
 - Technical status/data transmission

Procurement

- Innovation partnership foreseen to contract service provider for C-ITS deployment via cellular network and traffic smartphone application
 - Implementation of use cases, functional specification description
 - Interface with PEREX C-ITS platform

Procurement

- To be published end of june
- Te be notified end of september

Following steps

- Extend RSU coverage following evaluation
- Establish partnerships with private operators to push C-ITS services while receiving FCD and FMD
- Establish partnership with car constructor