

ITS CONGRESS 2018:

SUSTAINABLE MOBILITY IN CITIES

11 October 2018, Brussels



C-ROADS BELGIUM



Co-financed by the Connecting Europe
Facility of the European Union



C-ROADS BELGIUM/FLANDERS

TRACTEBEL IN SMART MOBILITY



Future visions in mobility

Our mobility solutions

BETTER MOBILITY TODAY

Support in future business development

B2B advise in mobility solutions for employees

Mobility innovation partner in EU-projects

City-level advise in deployment of smart mobility solutions

Smart mobility integration in smart city solutions

Strategic advise in future urban logistics

C-ROADS PLATFORM

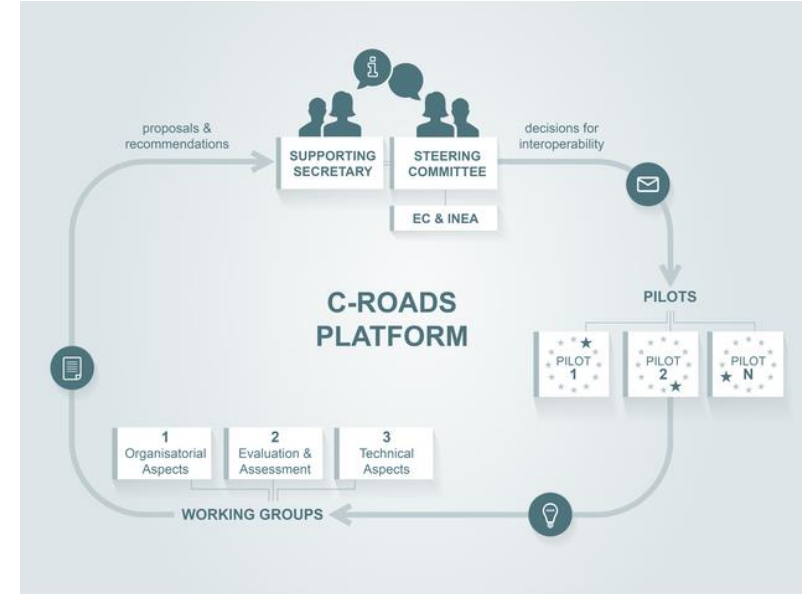


What?

The C-Roads Platform is a cooperation of **Member States** and road operators working on the deployment of **harmonised and interoperable C-ITS services** in Europe.

How?

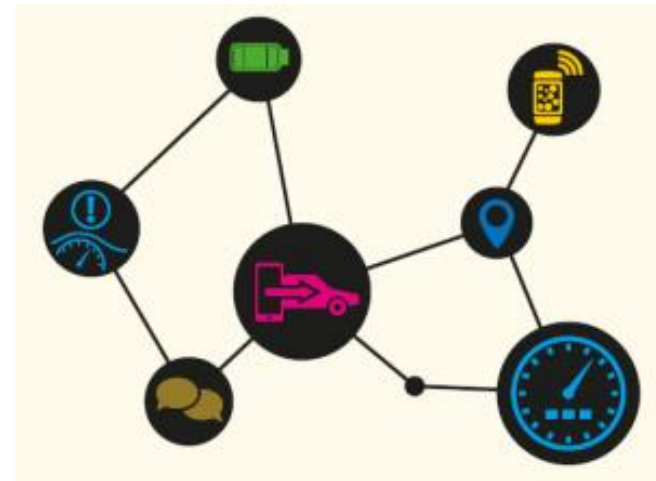
The C-Roads Platform approach will pursue **cooperation on a holistic level** in order to cover all dimensions linked with the deployment of C-ITS.



THE BELGIUM/FLANDERS PROJECT



- **Goal**
 - » Roads Flemish pilot is to operate and assess the deployment of a cloud based 'virtual infrastructure' for an effective deployment of C-ITS services
- **Technology**
 - » At the test site existing cellular based **3G-4G/LTE mobile communication** networks will be used in combination with the HERE Location Cloud and the local Traffic Management Centre's applications.



THE BELGIUM/FLANDERS PROJECT



- **Region**
 - » Flemish test area will concentrate on the (common) E34 – E313 segment East of Antwerp. As such motorways E34 (Antwerp – Eindhoven) and E313 (Antwerp – Liège) will be targeted for detailed evaluation purposes
- **Partners**



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SETUP



- **Test-users**
 - » 1000 test drivers
- **Use cases**
 - » C-Roads Flanders focuses on the following Day-1 Services including 10 use cases: 8 Hazards warnings and 2 signage applications:
 - » 1) Temporarily slippery road
 - » 2) Reduced visibility
 - » 3) Exceptional weather conditions
 - » 4) (Fixed/stationary) Road works
 - » 5) Slow and stationary vehicle
 - » 6) (Unprotected) Accident area
 - » 7) Obstacle on the road
 - » 8) Traffic jam ahead warning
 - » 9) Current speed limit
 - » 10) Shockwave Damping based on Wide Moving Jam
- **Test-period**
 - » The test-period is 1 year (starts (March) 2019).

CALL FOR PARTICIPANTS



- **If your company is**
 - » Near the test area
 - » Interested in new C-ITS technology
 - » Willing to test a market ready application with your employees



- **Contact**
 - » Sven Vlassenroot
 - › Sven.vlassenroot@tractebel.engie.com
 - › Or you can give me your business card
 - » Or go to the HERE-booth to subscribe



C-ROADS BELGIUM/WALLONIA

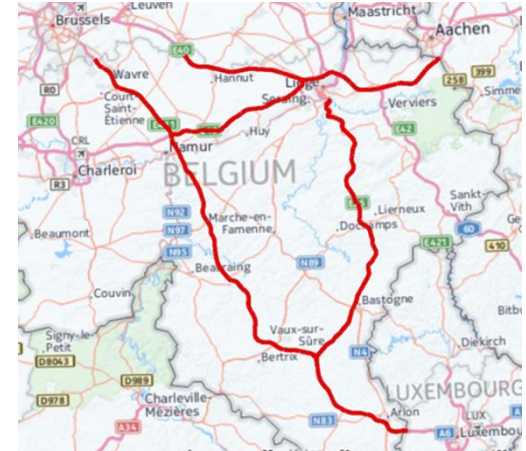


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THE BELGIUM/WALLONIA PROJECT



- Goal
 - » The pilot aim is to deploy and test C-ITS services using a cloud-based solution to connect road users to PEREX Traffic management center via a dedicated smartphone application using 3G/4G/LTE communication networks.
 - » The pilot will also include a limited number of road side units to test ITS-G5 communication and compare use cases testing.
- Coverage
 - » Cellular: A3 (E40); A4 (E411); A26 (E25); A602 (E25/E40); A15 (E42)
 - » ITS G5: A602 (E25/E40)
- Partners

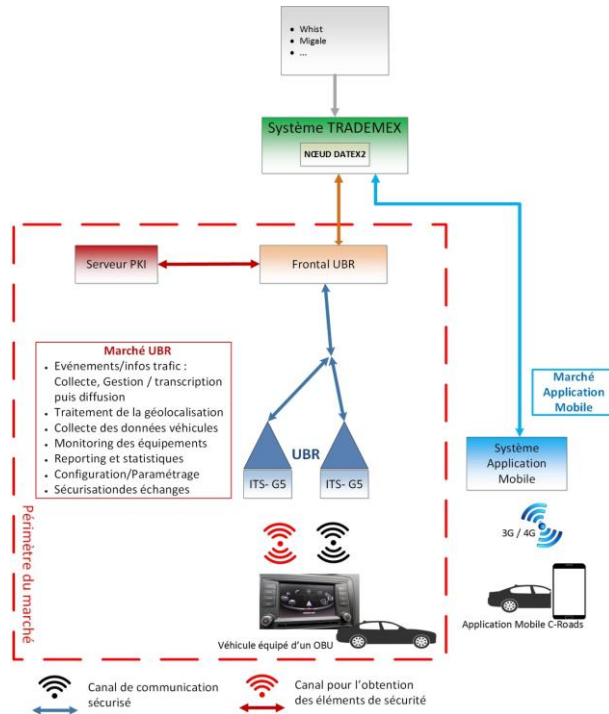


THE BELGIUM/WALLONIA PROJECT



- Day-1 Services
 - » Hazardous Location Notification – 7 use cases
 - › Accident zone, Traffic jam ahead, Stationary vehicle, Animal or person on the road, Weather condition warning, Wrong way driving
 - » Road Works Warning – 3 use cases
 - › Lane closure, Winter maintenance salting and ploughing
 - » In Vehicle signage – 1 use case
 - › Dynamic speed limit information
- Day 1.5 Services
 - » Information on parking lots location and availability

THE BELGIUM/WALLONIA PROJECT



- Procurement « Mise en œuvre d'une infrastructure de véhicules connectés – projet pilote C-Roads »
 - » RSU Management system, RSU installation, PKI infrastructure, OBU
 - » To be published **by end of October**
- Service Procurement for C-ITS services deployment via an external system with its dedicated smartphone application
 - » Private actor active in traffic or mobility services with existing app developments to be contracted
 - » To be published by end of the year

THE BELGIUM/WALLONIA PROJECT



- Period
 - » Wallonia pilot starts 01/04/2019 until end of 2019
 - » 1 or 2 additional use cases per month
- Info, ideas or suggestions
 - » Contact: N. Leroy
nicolas.leroy@spw.wallonie.be



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