



C-ROADS PLATFORM

CODECS Webinar on Use Cases, April 5, 2018

C-Roads Platform



Violeta Bulc @Bulc_EU · 19h

I want to see cooperative vehicles on #EU roads in 2019. The C-ROADS platform will make it happen! #realITS

👤 EU Transport and INEA

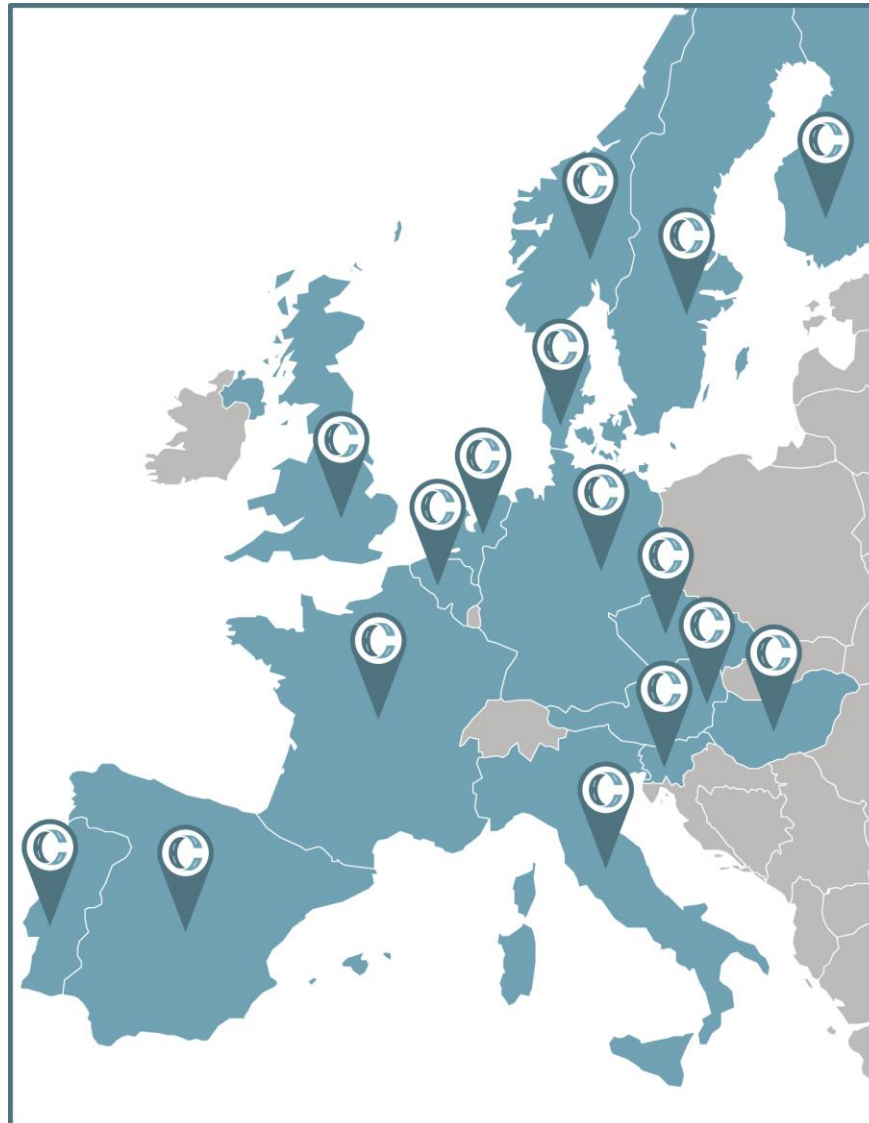


General Principles

Member States agree to work together to achieve deployments that enable interoperable and seamless cross-border C-ITS services for European travelers. Hereby the general principles of the C-Roads Platform are agreed as follows, which reflect EC's expectations completely:

- The main goal is to link C-ITS pilot deployment projects in EU Member States,
- To develop, share and publish common technical specifications (including the common communication profiles),
- To verify interoperability through cross-site testing,
- and to develop system tests based on the common communication profiles by focusing on hybrid communication mix, which is a combination of ETSI ITS-G5 and operational cellular networks.
- The details of the day-to-day cooperation in the C-Roads Platform are laid down in the Terms of Reference (ToR).

C-Roads Core Members



Core Members 2016

- Austria
- Belgium/Flanders
- Czech Republic
- France
- Germany
- Slovenia
- The Netherlands
- UK

Core Members 2017

- Belgium/Wallonia
- Denmark
- Finland
- Hungary
- Italy
- Norway
- Portugal
- Spain
- Sweden

Associated Members

- Ireland
- Switzerland

- Australia
- New Zealand

Day 1 Services



C-ROADS PLATFORM

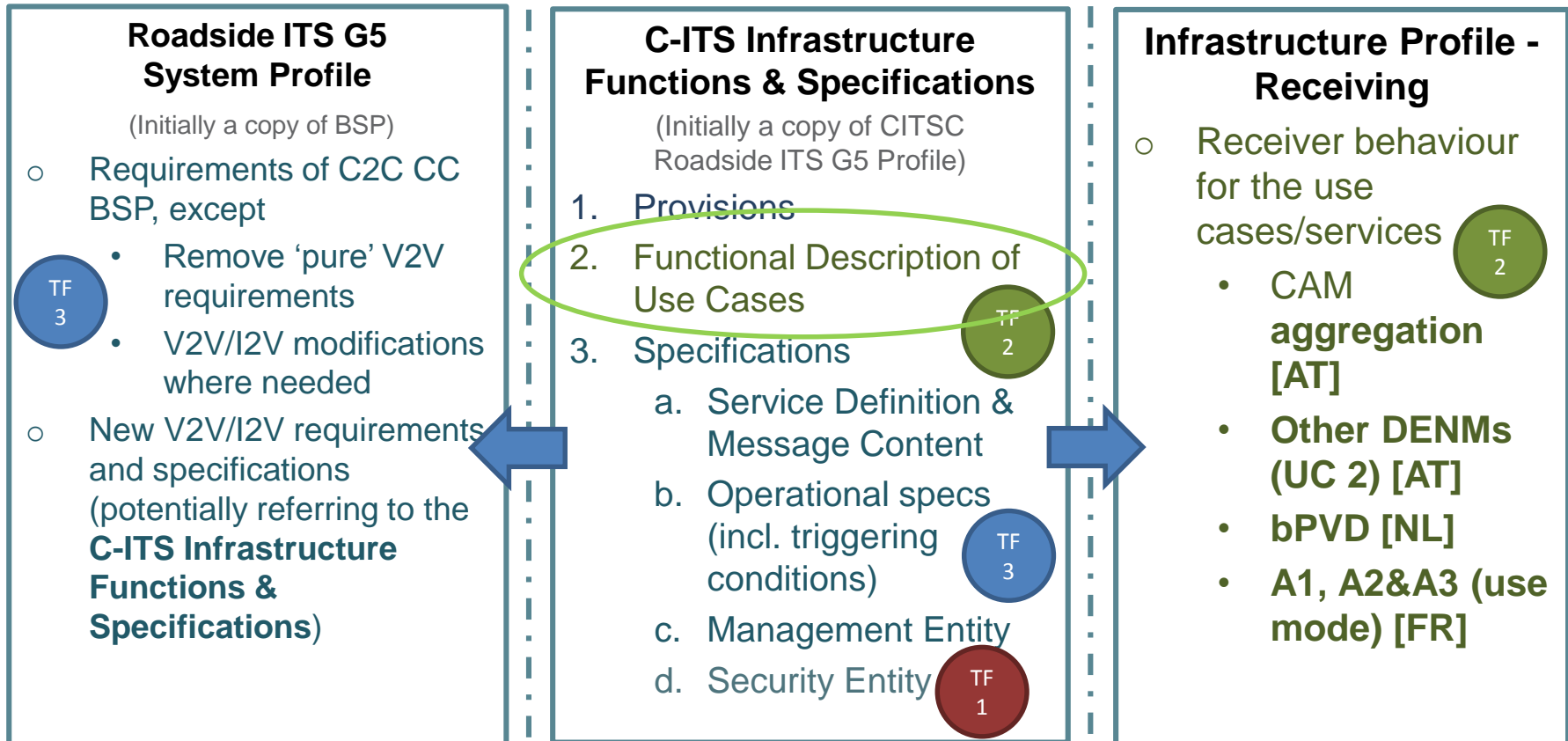
Structure of Working Groups

- WG 1 C-ITS Organisation (Marek Skjerba)

- WG 2 Technical Aspects (Marie Christien Esposito)
 - TF 1: Security (Sandro Berndt)
 - TF 2: Service Harmonisation (Onno Tool)
 - TF 3: Infrastructure Communication Profile (Jandrisits Marko)

- WG 3 – Evaluation & Assessment (Luca Studer)

Infrastructure profile: approach



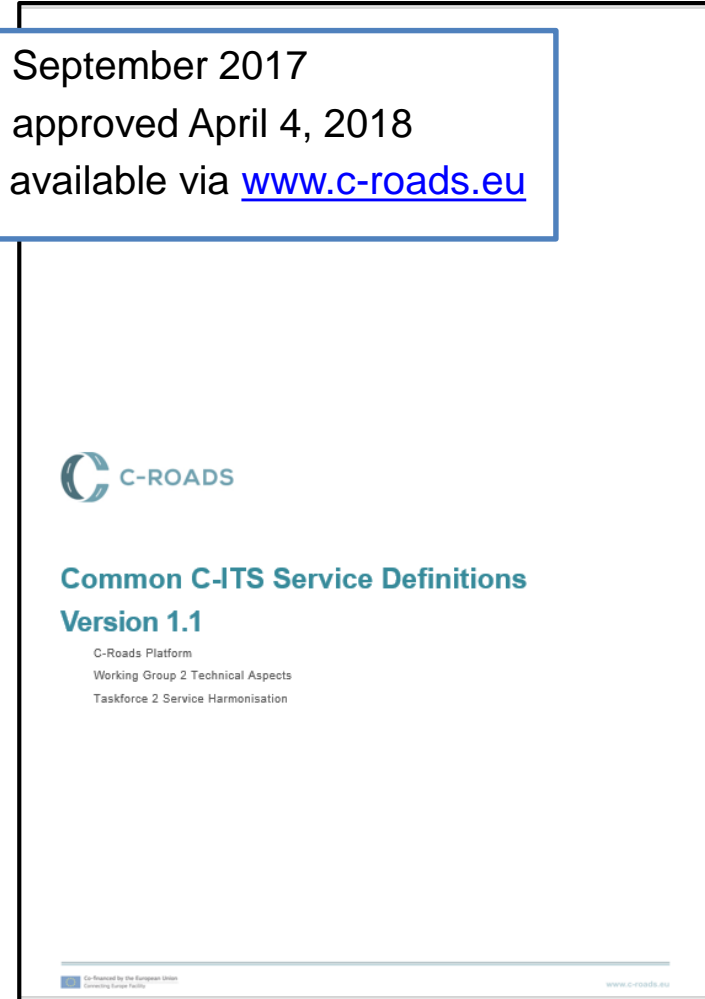
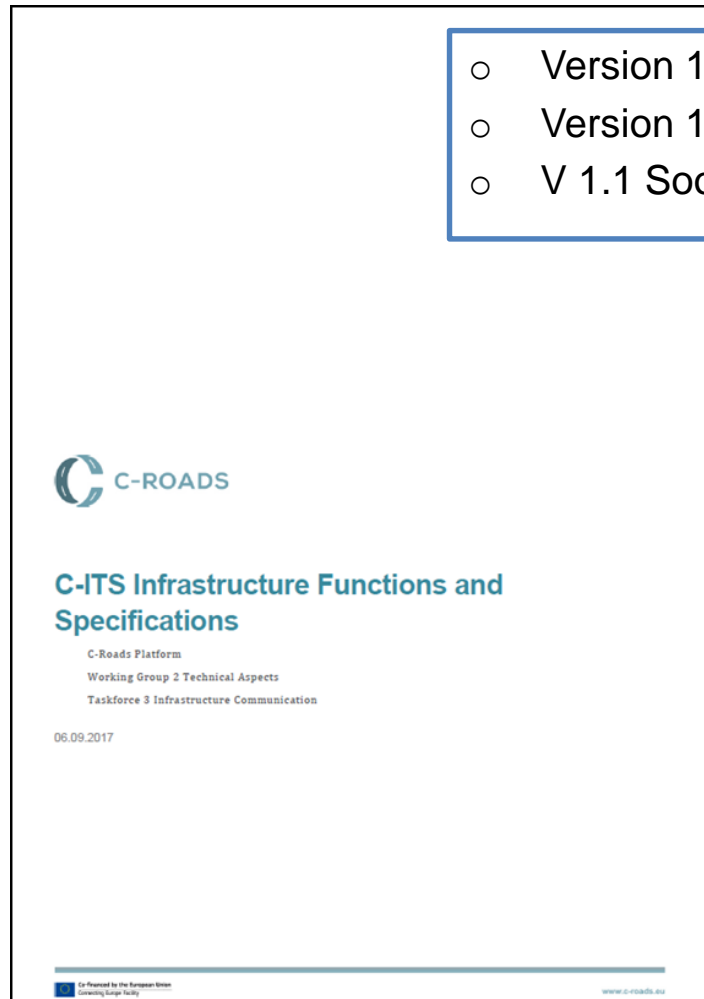
Sending ITS-S behaviour – Requirements (incl. option range)

Sender & receiver: UCs
Sender: Specifications (incl. national choices)

Receiver Specifications

Publication of the Communication Profile for ITS-G5

- Version 1.0 September 2017
- Version 1.1 approved April 4, 2018
- V 1.1 Soon available via www.c-roads.eu



TF2 Content of Release 1.1

- In Vehicle Signage (IVS)
 - Dynamic Speed Limit Information (IVS-DSLI)
 - Embedded VMS “Free Text” (IVS-EVFT)
 - Other Signage Information (IVS-OSI)
- Other Hazardous Locations Notification (OHLN)
 - Accident Zone (OHLN-AZ)
 - Traffic Jam Ahead (OHLN-TJA)
 - Stationary Vehicle (OHLN - SV)
 - Weather Condition Warning (OHLN-WCW)
 - Temporarily Slippery Road (OHLN-TSR)
 - Animal or Person on the Road (OHLN-APR)
 - Obstacle on the Road (OHLN-OR)
- Road Works Warning (RWW)
 - Lane Closure (and other restrictions) (RWW – LC)
 - Road Closure (RWW – RC)
 - RWW – Road Works – Mobile (RWW-RM)

TF2 Approach (1)

- TF2 works with smaller service working groups that consist of the member states that are or will be implementing these Use Cases under the specific service.
- Use of harmonised template.
- TF2 descriptions are (almost) technology agnostic, functional descriptions
- TF2 works with aligned with TF3, this means that there must be functional and technical specifications available for a use case to start the harmonisation process.
- Aim: 1:1 relation with the TF3 profiles and profiled message sets.
- In the current TF2 document only those use cases that have a certain maturity on functional and technical level.

TF2 approach (2)

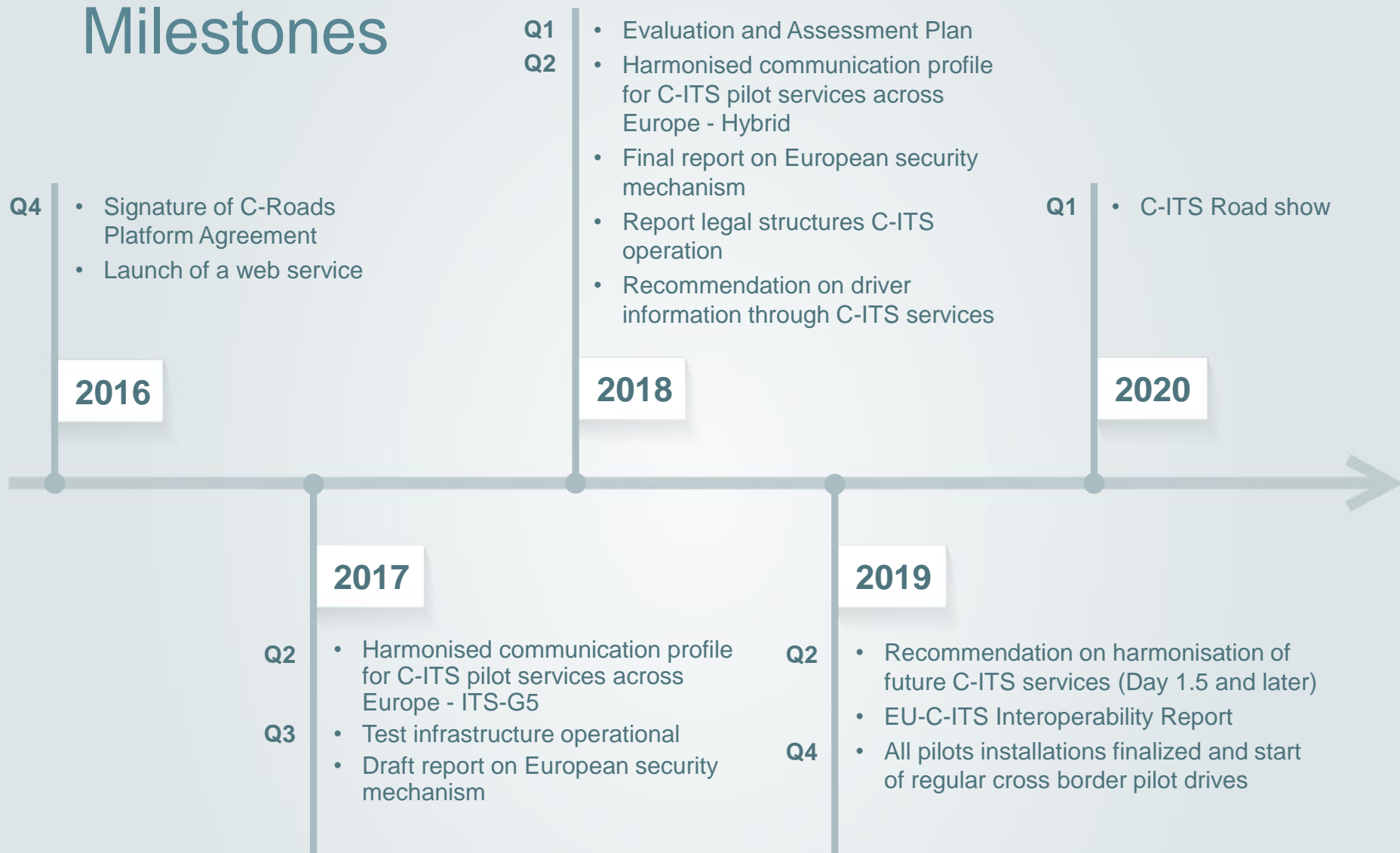
Towards next versions (V1.2 or later):

- TLM & RLT:
 - Green Light Optimal Speed Advisory (GLOSA)
 - Time to Red / Time to Green (TTR / TTG)
 - Priority Request by Public Transport (PRPT)
 - Priority Request by Emergency Vehicles (PREV)
- SWD - Shockwave Damping
- Other services / use cases based on available documentation coming from the C-Roads Pilots (timing, see inventory, next slide)
- <https://www.c-roads.eu/pilots/implemented-services.html>

Time line

- Release 1.0 was published on 14th of September 2017
- Release 1.1 to be published by 5th of April 2018
- Further Releases to be scheduled, release 1.2 foreseen this summer
- EC is currently preparing a delegated act for C-ITS
- C-ITS specifications will be integral part of the delegated act
- Most likely the C-ROADS specifications will be annexed to delegated act, hence MS need to comply with them
- Tight time line
- Release management under development in C-Roads

Milestones



THANK YOU!

