



Belgisch **Wegen**congres
Congrès belge de la **Route**

LEUVEN • 4-7.04.2022



Working Group 5: Digital Transport Infrastructure

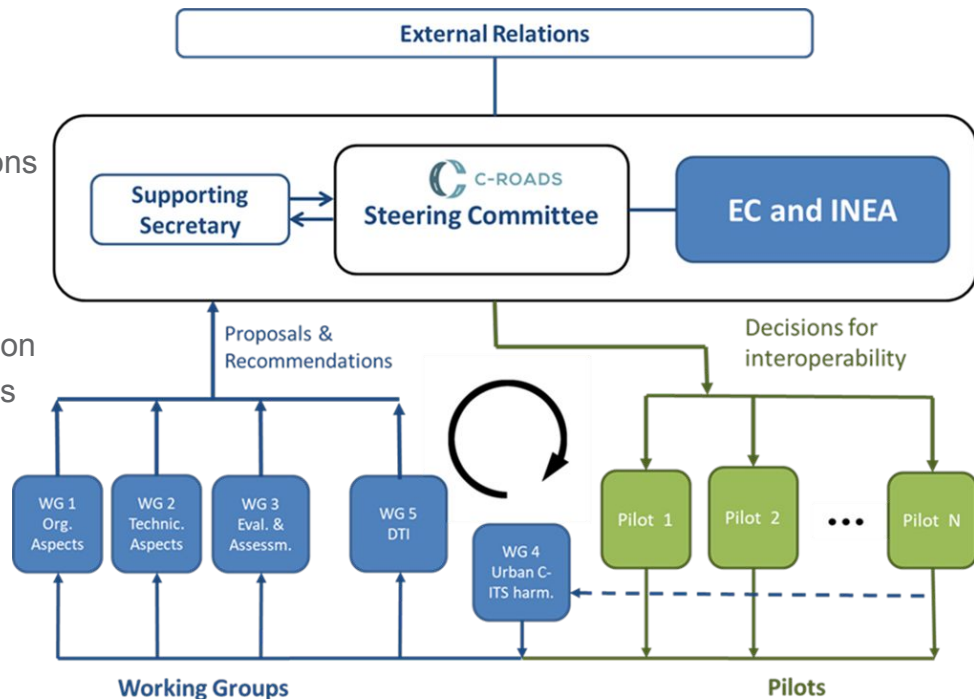




The aim of the C-Roads Platform

- linking all C-ITS deployments
- develop, share and publish common technical specifications (including the common communication profiles),
- planning intensive cross-testing to verify interoperability
- 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.

□ And by doing so C-Roads paves the ground for making Cooperative, Connected and Automated Driving reality





What is Working Group (WG) 5?

WG5 aims to define common technical elements related to the topic of Digital Transport Infrastructure (DTI) in the context of C-ITS.

A collaborative effort between member states...

#1

Creating a common understanding of the basic digital elements needed for successful C-ITS

#2

Addressing relevant standards & protocols crucial to C-ITS, which must be considered by wider C-Roads members

#3

Investigating the digitisation of transport rules and regulations in an available format to end users



Context behind WG5

DTI elements in the context of C-ITS can be understood in a variety of aspects and may include, among other elements, the following:

- Traffic data
- Infrastructure information
- Network connectivity
- Digital maps (HD maps)
- Digital transport rules and procedures
- Additional aspects for connected and possibly automated driving in the future

WG5 are investigating these elements to be classified under key DTI categories:

#1

Digital maps supporting dynamic C-ITS services (use-case driven)

#2

Digital information elements and their network connectivity aspects

#3

Digital traffic rules and machine-readable regulations for Co-operative, Connected and Autonomous mobility (CCAM)



What is WG5 trying to deliver?

#1



A set of harmonised **C-ITS road infrastructure meta data, data and information elements** for key C-ITS services

#2



Recommendations on **common transport rules and regulations** and their applications within other Member States

#3



Data elements and their **communication network connectivity parameters**, and possibly **handover procedures** between them, for a complete service chain and coverage

#4



Common **Test and Validation procedures** for digital content when implementing C-ITS Services, **based on test and validation procedures** defined in a separate Working Group

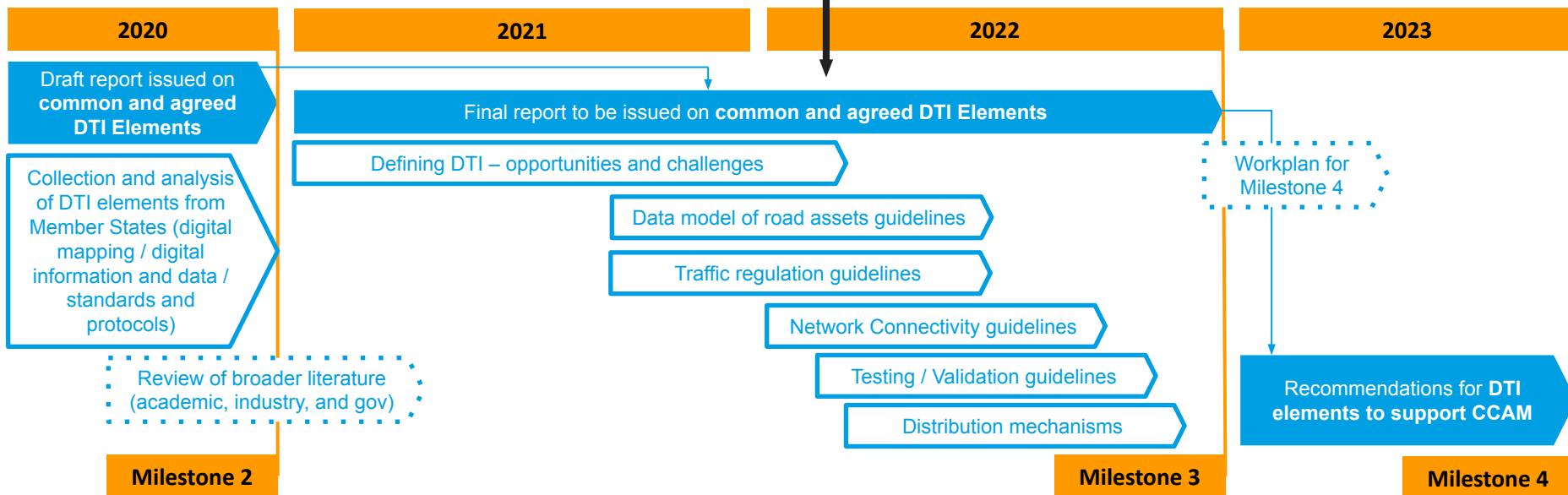
#5



Mechanisms to **distribute** these **new contents** to C-ITS-stations **via different communication channels** in a **hybrid approach**



Work done to date, and what is next?





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Thank You

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