



THE DIGITAL DATA INFRASTRUCTURE APPROACH WITHIN C-ROADS

C-Roads Antwerp/Helmond consortium Symposium

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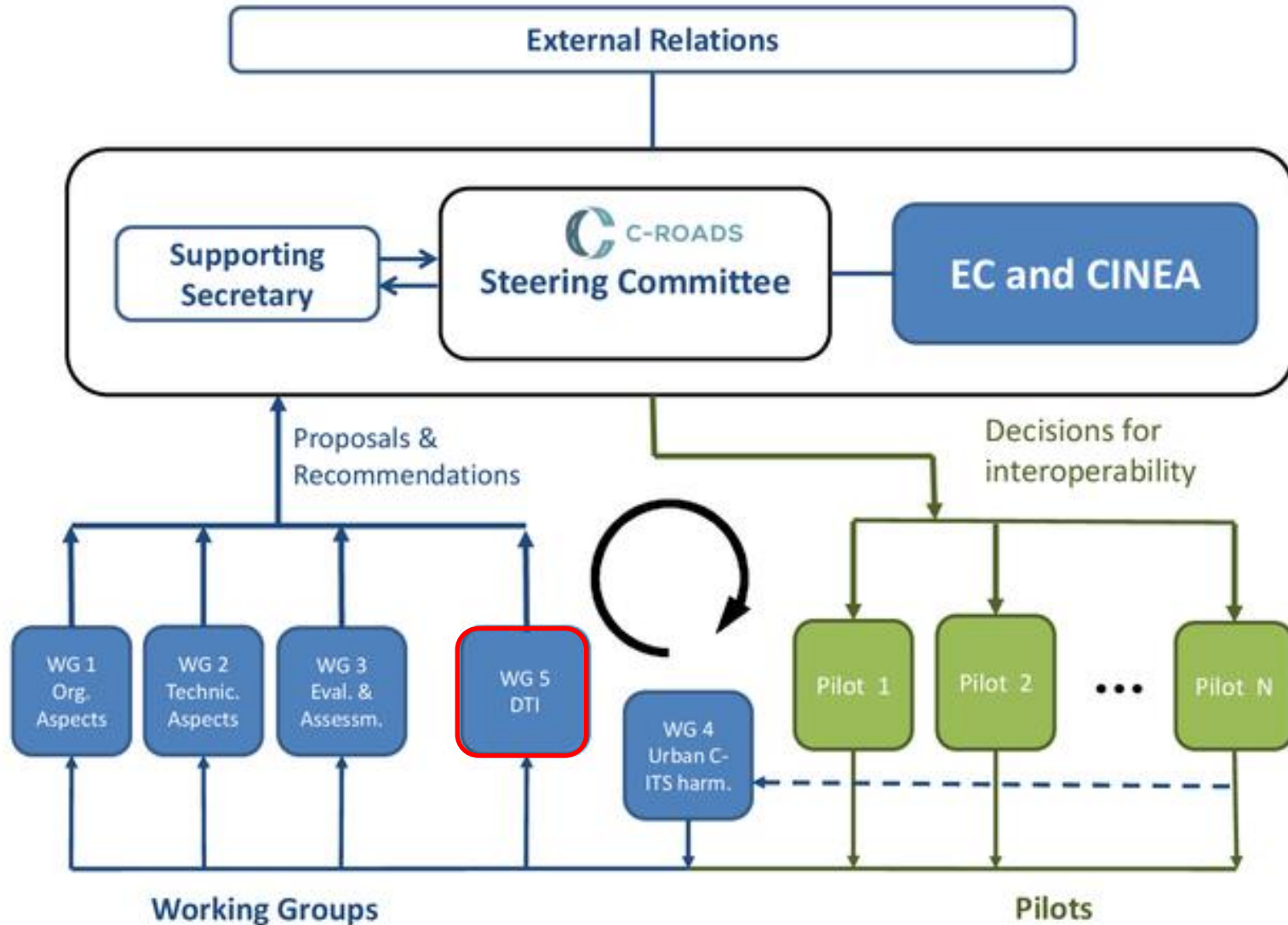
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AIM OF HARMONISATION OF C-ITS RELATED DEPLOYMENTS THROUGHOUT EUROPE.

- Specification and definition work performed by the Working Groups with a focus on common elements in all pilot activities, but also single topics of high importance for the overall success of the C-Roads Platform.

- The following Working Groups and Task Forces are currently in place:
 - Working Group 1 C-ITS Organisation
 - Working Group 2 Technical Aspects
 - Task Force 1 Security Aspects
 - Task Force 2 Service Harmonisation
 - Task Force 3 Infrastructure Communication
 - Task Force 4 Hybrid Communication
 - Task Force 5 Cross-Testing and Validation
 - Working Group 3 Evaluation and Assessment
 - Working Group 4 Urban C-ITS Harmonisation
 - **Working Group 5 Digital Transport Infrastructure (DTI)**

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WG 5 Approach

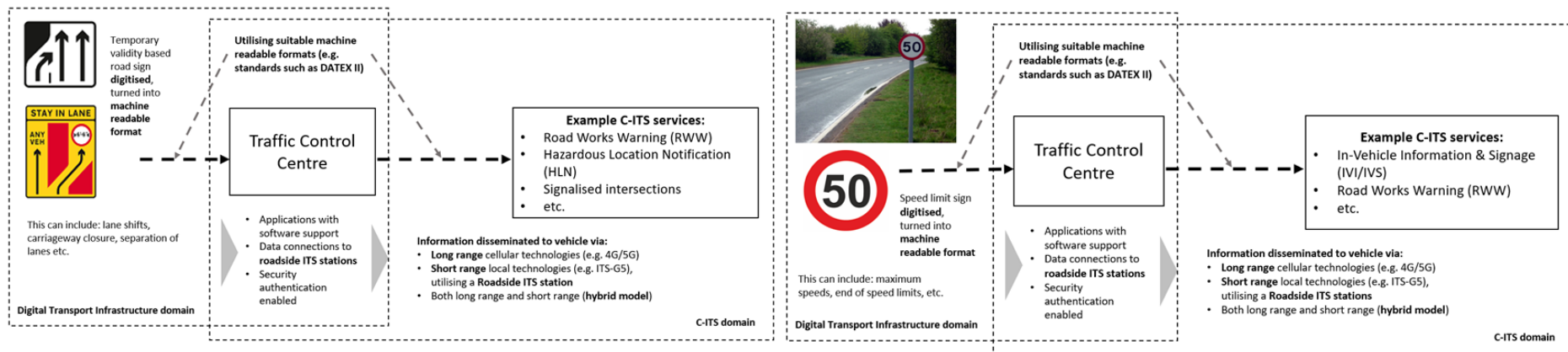
The focus is on the infrastructure needs for an overarching digital infrastructure, including:

- Traffic Management
- 'HD' maps
- Existing standards will be reflected (TN-ITS and/or the work on METR - Management for Electronic Traffic Regulations)
- Provide recommendations to infrastructure operators.

WG 5 Approach

The decision was taken to focus on two ‘Use Cases’ to test the definition of DTI through a working example and identify the DTI elements that need to be considered:

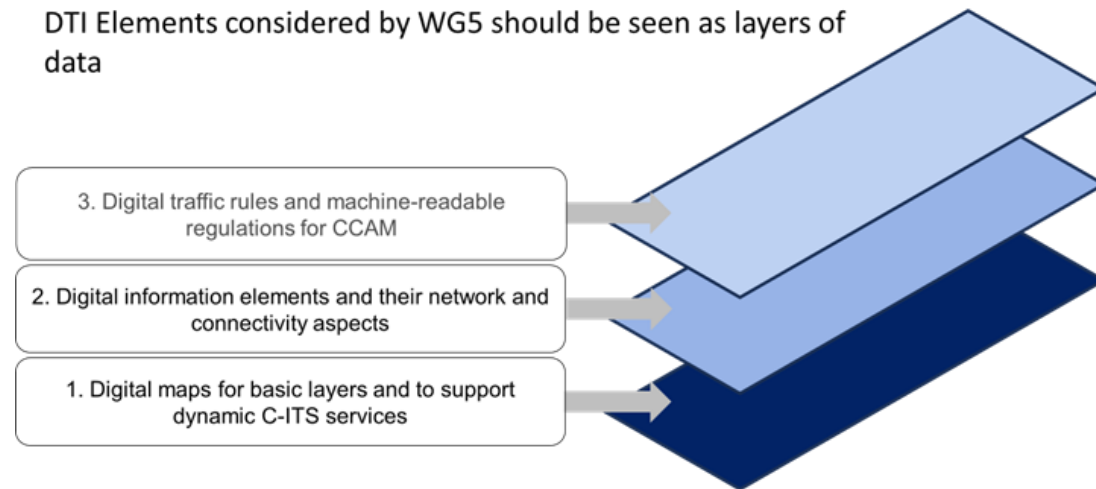
- Speed Limits
- Temporary changes to the network



WG5 Outputs 1

Main areas of work: DTI data elements

DTI Elements considered by WG5 should be seen as layers of data

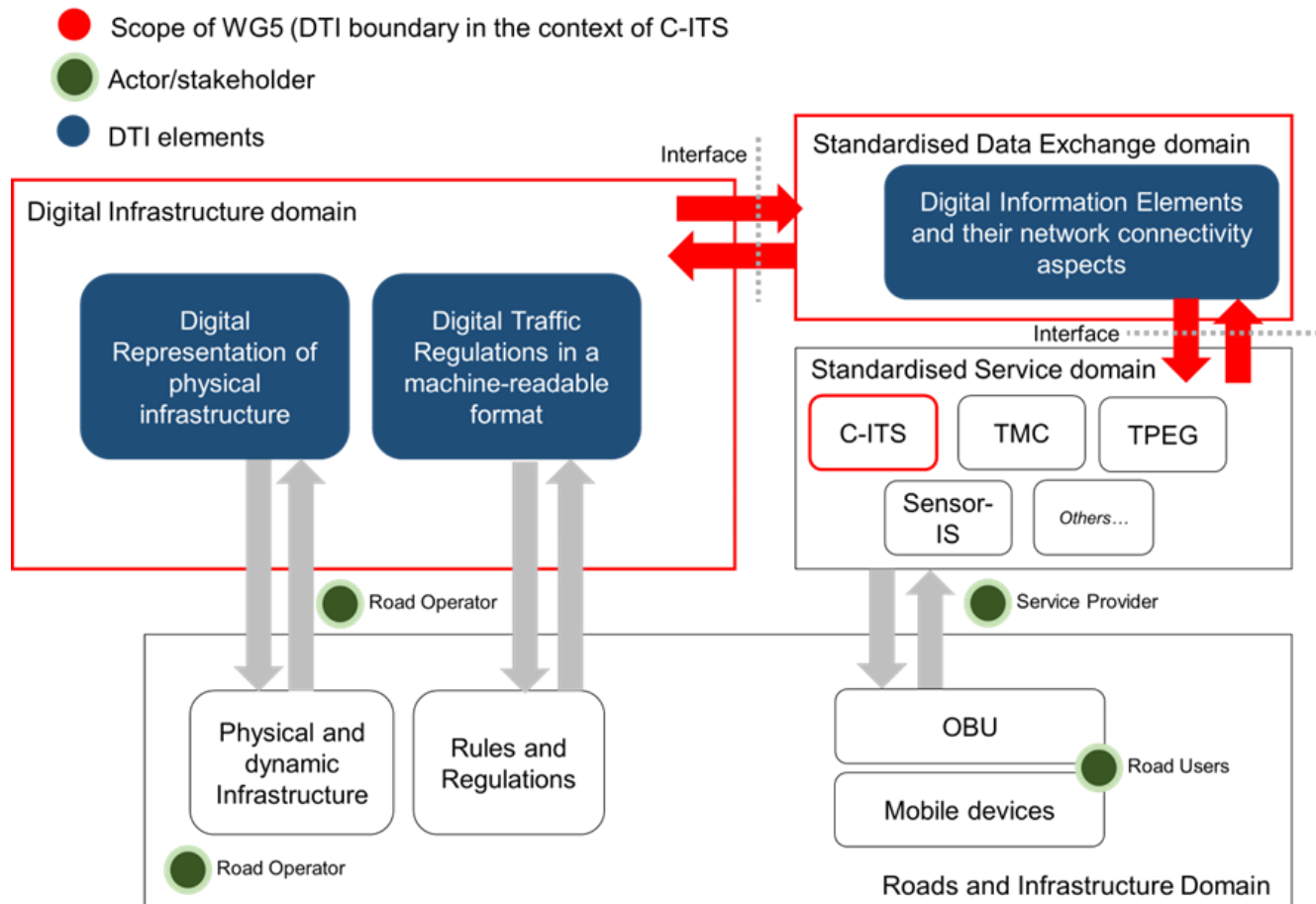


Definition of DTI

DTI constitutes anything required for the harmonised digitalisation of physical and dynamic transport infrastructures, operating processes, and rules and regulations, to enable digital services to an actor or system in the mobility landscape.

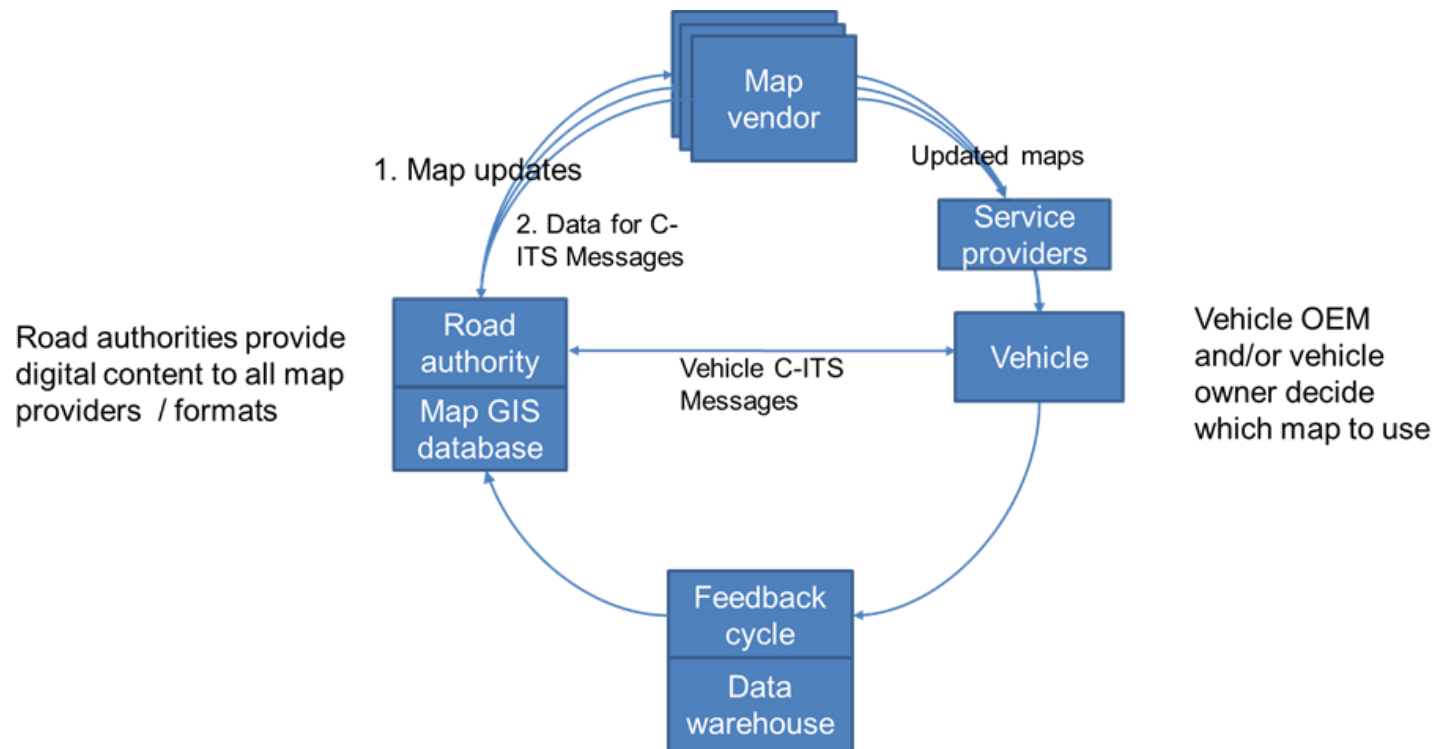
WG5 Outputs 2

Overarching domain architecture



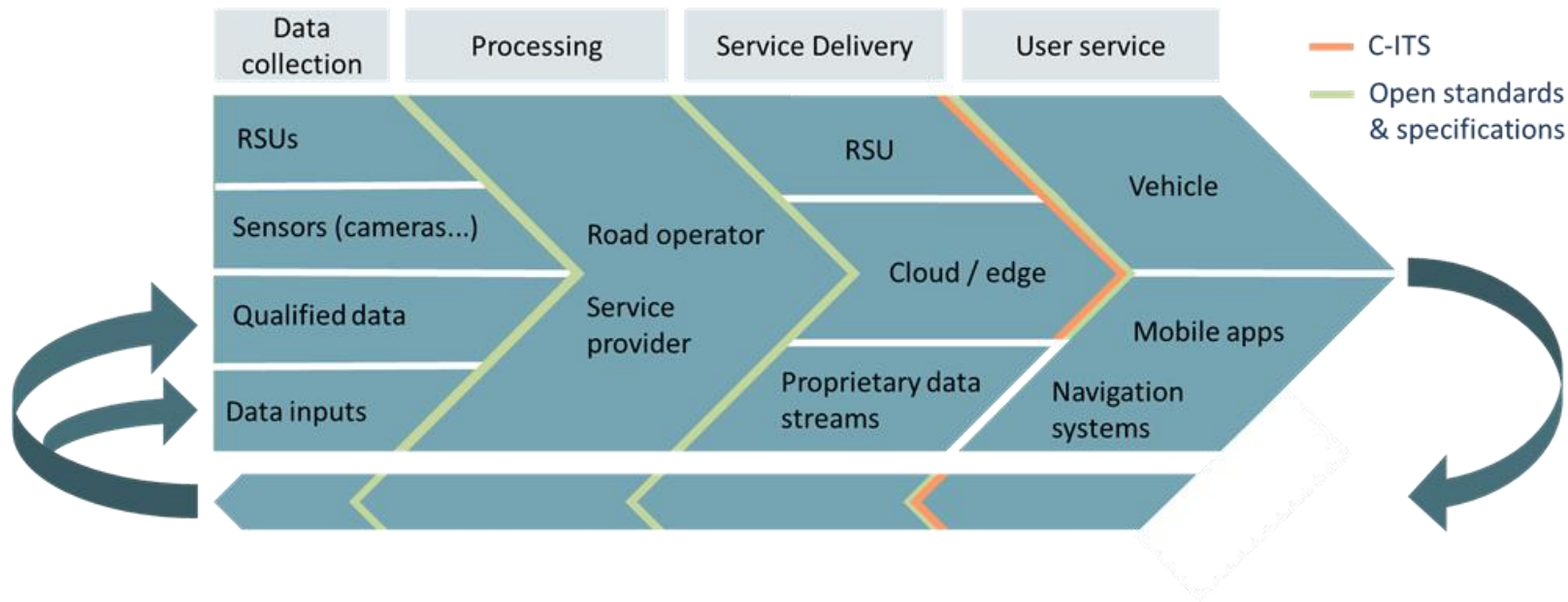
WG5 Outputs 3

- Proposed digital update cycle (i.e. for maps)



WG5 Outputs 4

- Proposed data model for Traffic Information (based on C-ITS)



WG5 Outputs

What High level recommendations could there be?

- **Governance** - an agreed framework for data flow including governance, security and data quality requirements.
- **Advisory to Regulatory** - Identify a point when digital information needs to be the primary source of regulatory information and identify changes (i.e. legal frameworks, standards of encoding guidance, evidential trail for enforcement)
- **Skills** – identify required changes to existing stakeholder organisations processes and knowledge base.
- **Data** - review specifications in line with investigated recommendations in cooperation with NAPCORE.



THANK YOU!

