



C-Roads Platform

Terms of Reference

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Author: AustriaTech

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1 Purpose

The C-Roads Platform Terms of Reference (ToR) document defines the structure and procedures to be followed within the C-Roads Platform as well as the content to be discussed and agreed upon to achieve interoperable deployments of C-ITS services across Europe from a road operators perspective.

The C-Roads Platform Agreement, which is signed by all C-Roads Partners, refers to these ToR. So both documents need to be seen together as they are a precondition for deployments of several pilot deployments which are co-funded by the European Union through the Connecting Europe Facility.

For the Grant Agreements of single Pilot projects, to be initiated in Austria, Belgium/Flanders, Czech Republic, France, Germany, the Netherlands, Slovenia and UK, the EC stated clearly the following expectation:

A C-Roads Platform Agreement will be signed by the representatives of all pilot actions. The C-Roads Platform Agreement shall specify with an appropriate level of details:

1. How each and every pilot action will participate to the C-Roads Platform and to the different Working Groups. Each pilot action shall actively participate to the C-Roads Platform and its Working Groups.
2. How technical and functional interoperability of the piloted C-ITS services will be achieved. The agreement shall make clear that the overarching goal of the pilot actions is to ensure interoperability. To that effect, the C-Roads Platform Agreement shall explain what mechanisms will be put in place to specify, test and validate the technical solutions of the commonly specified communication profile, detect as soon as possible any interoperability issues and propose solutions. Technical solutions shall be selected by each pilot action in line with the other pilot actions, so to ensure technical compatibility and interoperability.
3. How and when cross-site tests will be carried out. Each pilot action shall test at least one on-board unit on all other pilot sites and provide a test report. To that effect, the C-Roads Platform Agreement shall detail the main principles for these tests, in particular as regards the support provided by the "visited site" to the "visitor". Achieving interoperability based on the commonly specified communication profile shall be a joint responsibility of all C-Roads Platform partners.
4. How the progress and results of the EU C-ITS Platform will be taken into account. In the interest of EU interoperability, the solutions developed within the C-Roads Platform will have to be fully aligned with the guidelines and framework established for that specific domain by the EU C-ITS Platform.

Even the C-Roads Platform Agreement needs to be agreed upon and signed by the single pilot beneficiaries (coming from mainly two pilot actions: C-Roads pilots and InterCor), other partners representing European Member States are invited to become active members (core partners) of the C-Roads Platform.

2 Governance Structure

As it can be seen in Figure 1, the driving body of the whole C-Roads Platform is the C-Roads Steering Committee composed by representatives of the Member States and the infrastructure operators as implementing bodies. It composes the interface to all internal and external stakeholders, including the European services (European Commission and INEA). Additionally, it has the responsibility to ensure interaction with external stakeholders through dedicated workshops as well as to the EU-C-ITS-Platform and acts as the ultimate decision body of the C-Roads Platform. The C-Roads Steering Committee is chaired by the C-Roads chair, who will be elected on an annual basis.

The proper functioning of the C-Roads Platform (Monitoring of progress, invitation to meetings, etc.) is organised by the Supporting Secretariat, composed by the coordinators of the single pilots and chaired by a General Secretary.

All decisions done by the C-Roads Steering Committee are followed by the single pilot activities, where appropriate. This especially goes with technical decisions, which influence deployment and procurement decisions. In case that proposals or/and recommendations are not adopted by the Steering Committee, Member States can continue in their deployment activities in accordance to valid standards and/or specifications, but they need to be ready to adopt their deployments to Steering Committee Decisions on a later stage, but before cross-site testing.

To ensure proper decisions towards interoperable deployments, Working Groups are installed as decision support for the Steering Committee. Individual experts participating in the single pilots and nominated by C-Roads Steering Committee members work together in these Working Groups to prepare recommendations. The Steering Committee decides on the recommendations and use them as basis for interoperable deployments (including procurements).

Additionally members of the single pilot activities as well as of the C-Roads-Working Groups actively contribute to the work of the EU-C-ITS-Platform.

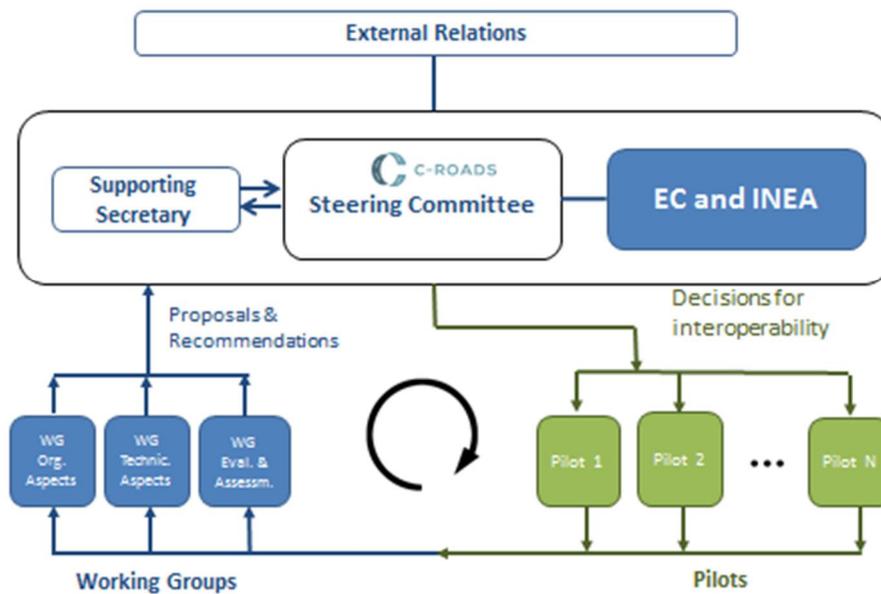


Figure 1: C-Roads Platform - Governance Structure

Member States can become members of the C-Roads Platform, with the differentiation between core members and associated members:

- Core members acknowledge the general principles of the C-Roads Platform
- Core members commit themselves to actively participate in all Working Groups (at least one expert per Working Group) drafting C-Roads specifications.
- Core members will be allowed to vote on C-Roads specifications to be used for C-ITS deployments
- Core members commit themselves to follow the C-Roads specifications, when setting up pilot deployments
- Associated members acknowledge the general principles of the C-Roads Platform
- Associated members have access to gathered knowledge, but they will have no voting right for specifications
- Associated members commit themselves to use C-Roads specifications in their pilot implementations

The European Services, composed by representatives of the European Commission (EC) and the Innovation and Networks Executive Agency (INEA), are closely linked to the C-Roads Platform through policy guidance and the legislative framework of C-ITS. Even if the European Services have no voting right at Steering Committee level, they are invited to follow and actively participate to discussions at all C-Roads Platform levels, ensuring also the link to other C-ITS relevant stakeholder groups like e.g. the EU-C-ITS Platform. They additionally will bring in the policy support needed for such a pan-European deployment platform.

The different bodies of the C-Roads Platform, their members, their roles and responsibilities are described in detail in the following sections.

3 C-Roads Steering Committee

3.1 Tasks and responsibility

The C-Roads Steering Committee is responsible for:

- the overall steering of the platform
- the formal representation of the C-Roads Platform to the EC
- the interface of the C-Roads Platform towards external stakeholders
- establishing Working Groups for single work items and allocating needed resources
- assigning, revising and adoption of the work items from all Working Groups
- endorsement of deliverables from the Working Groups
- ensuring the link between specifications elaborated within the Working Groups and real pilot implementations and hereby
- ensuring that the decisions at platform level will be followed at pilot implementation level.

Decision procedures:

All decisions in the C-Roads Steering Committee are done in a unanimous way and have to be taken on full consensus. That includes, that all decisions, when effecting deployments in Member States, need to take national legislations into account. It is expected that only unanimous decisions lead to interoperable C-ITS service deployments.

3.2 Member structure

The C-Roads Steering Committee is composed by ONE representative per Member State (one Voting Member per Core Member). This representative might be supported by other partners (Supporting Member), designated by the voting Member State (e.g. Road Operators).

Steering Committee meetings are planned twice a year, and Core Members (having voting rights) need to be represented. If a Core Member cannot participate, the Steering Committee shall be informed in advance on the position of the Core Member State on all agenda items marked for decision.

If the Steering Committee in its meeting decides on content-wise amendments to relevant and previously distributed texts, a 7 day voting period following the meeting shall apply. If required an (additionally) revised text will be subject to a formal endorsement by written procedure, or the voting can be postponed to the next Steering Committee meeting by decision of the SC Chairman.

For details of the member structure see ANNEX 1

3.3 Meeting calendar

Steering Committee Meetings will take place twice a year as physical meetings. In between, if necessary, conference calls can be set up.

Voting in Steering Committee Meetings can be done either directly at the meeting or in written form beforehand a C-Roads Steering Committee Meeting.

C-Roads Steering Committee meetings are arranged by the C-Roads Supporting Secretariat, which as well prepares the agenda and minutes. Decision points need to be clearly indicated in the agenda and supporting documents need to be delivered beforehand. For all decision points, supporting documents need to be delivered at least three weeks in advance to the C-Roads Steering Committee Meeting.

At the meeting itself, C-Roads Steering Committee Members (both, core and associated), members of the C-Roads Platform Supporting Secretariat as well as Working Group Leaders are invited. In the following table an overview of possible decision points, which are in accordance with the C-Roads Platform milestone list, is provided:

Date	Host	Decision points
Q2 2017		Revision and confirmation of C-Roads work items. Approval of common documents of previous work-periods, plus: <ul style="list-style-type: none"> • Harmonised communication profile for C-ITS pilot services across Europe . ITS-G5 • Detailed pilot description and demonstration plan available • Detailed pilot partner and structures description available
Q4 2017		Revision and confirmation of C-Roads work items. Approval of common documents of previous work-periods, plus: <ul style="list-style-type: none"> • First Test infrastructure operational • Draft Report on European security mechanism
Q2 2018		Revision and confirmation of C-Roads work items. Approval of common documents of previous work-periods, plus: <ul style="list-style-type: none"> • Evaluation and Assessment Plan

		<ul style="list-style-type: none"> • Harmonised communication profile for C-ITS pilot services across Europe . Hybrid • Recommendation on driver information through C-ITS services • Final report on European security mechanism • Report on legal structures for C- ITS operation
Q4 2018		Revision and confirmation of C-Roads work items. Approval of common documents of previous work-periods.
Q2 2019		Revision and confirmation of C-Roads work items. Approval of common documents of previous work-periods, plus: <ul style="list-style-type: none"> • Recommendation on harmonisation of future C-ITS services (Day 1.5 and later) • EU-C-ITS Interoperability Report
Q4 2019		Revision and confirmation of C-Roads work items. Approval of common documents of previous work-periods, plus: <ul style="list-style-type: none"> • Integrated report about cross-site-test results of single partners in different pilot sites • All pilots installations finalized and start of regular cross border pilot drives
Q2 2020		Revision and confirmation of C-Roads work items. Approval of common documents of previous work-periods, plus: <ul style="list-style-type: none"> • Start of C-ITS Road show
Q4 2020		Revision and confirmation of C-Roads work items. Approval of common documents of previous work-periods, plus: <ul style="list-style-type: none"> • Detailed evaluation report

Table 1: C-Roads Steering Committee Meeting Plan

4 C-Roads Platform Supporting Secretariat

4.1 Tasks and responsibility

The C-Roads Platform Supporting Secretariat is responsible for the management of the day-to-day work in C-Roads.

It supports the C-Roads Steering Committee and in this respect it will

- Perform the overall coordination of the platform activities; this includes administrative tasks, planning, quality assurance, document procedures and reporting
- monitor the progress of the Working Groups
- coordinate the information flow between the different Platform bodies and the pilot implementations
- monitor the progress of the pilot implementations
- collect inputs for the annual reporting for all CEF-funded pilots, focusing on the Platform Activities
- be the day-to-day interface for EC, INEA and external stakeholders
- draft agendas and write minutes of the C-Roads Platform Steering Committee Meetings
- organise and moderate the C-Roads Platform Steering Committee Meetings
- operate the platform-website
- coordinate dissemination activities
- follow up external information and contacts on behalf of the C-Roads Platform Steering Committee, the work groups or pilots if needed
- organise workshops for the interested external stakeholders
- represent the C-Roads Platform at public events, if requested by the Steering Committee

4.2 Member structure

The C-Roads Supporting secretariat is composed by experts, nominated by the C-Roads Steering Committee Member States. Ideally members of the C-Roads Supporting secretariat are involved in national pilot activities.

If a member of the C-Roads Supporting Secretariat cannot participate in meetings, the respective Member State representative shall appoint a replacing delegate.

For details of the member structure see ANNEX 1

4.3 Meeting calendar

Supporting Secretariat Meetings will take place on a quarterly basis, mainly as web-conferences. For the preparation of Steering Committee Meetings, physical meetings might be used, which take place approximately 4 weeks before the respective meeting. Where necessary, Steering Committee members and/or Working Group chairs might be invited.

5 Working Groups (WGs)

The main specification and definition work will be performed by the Working Groups under the strategic control of WG Leaders responsible for completing the assigned tasks and documents according to defined objectives, schedules and costs. The common elements in all pilots of C-Roads partners, but also in the single topics are hereby of high importance for the overall success of the initiative. Therefore Working Groups and their Leaders play a formal and important role in the overall management of the C-Roads Platform. In this respect they are part of the management of C-Roads. The responsibility of the WG Leaders is to steer the WG contributions, to ensure that all contributions are taken into account and treated in an equal and fair manner, to find the common elements of all pilots and to collect, coordinate and monitor the schedules of all related tasks and check their validity in terms of resources and competencies allocated. The WG Leaders have to monitor the progress of the WG, monitor the agreed milestones and timely availability of results. The WG Leader has the obligation to identify delays and risks (in work content and time) as soon as possible, and to provide reports to the C-Roads Steering Committee. The WG Leaders are requested to hold WG meetings (face-to-face meetings as well as phone-conferences) with the appropriate persons within their group on a regular basis and to use (e-mail) reporting and monitoring to perform these obligations.

At the start of the C-Roads Platform there are three Working Groups planned, with the option that further topics will be added if needed in order to achieve interoperable pilot deployments. The working groups contain the main aspects of work to reach the overall C-Roads objectives, if during the performance of the activities and pilots additional work items are needed C-Roads partners will discuss this at C-Roads Platform Steering Committee level and decide about additional/adopted work groups or task forces.

5.1 Tasks and responsibility

- Working Group leaders define a work program for the respective Working Group, covering the full scope of C-Roads for the single work group topics
- Perform a State of the Art analysis based on the contributions and documents from single partners and the next activities they propose (Working Group Leader with inputs from all members)
- Generate a first document structure and main contents for the working group and attribute single chapters editor responsibilities, if needed (Working Group Leader)
- Revise and comment the work group report according to the single pilot contributions (all members)
- Define the next versions of the work group report, taking into account all feedback received and elaborate the common aspects of the C-Roads contents agreed by all pilot implementations. (Working Group Leader with inputs from all members)
- Report regularly to single pilots and to the C-Roads Steering Committee during the document refinement phase. (Working Group Leader with inputs from all members)
- Revise the final draft of the work group report and propose a formal support from the C-Roads Steering Committee members in the next meeting (Working Group Leader)

- Distribute the final version of the work group report (with document status adopted) via the Supporting Secretariat to the C-Roads Steering Committee
- If Working Group members are unable to participate in meetings, then the Member State representatives need to ensure proper representation.

5.2 WG 1 – C-ITS Organisation

- Analyze and describe the cooperation needed for the roll-out of C-ITS in different organisational environments in Europe, starting from a leading role of public actors (e.g. Road operators or authorities) with interactions with private entities and service providers to other settings where public and private organisations contribute to the delivery of C-ITS Services.
- Collect and investigate solutions to overcome known and newly identified legal barriers and obstacles (including privacy issues) related to C-ITS. Most important will be their appropriate documentation so that other partners and stakeholders will have the possibility to apply these to their own operating environments and assess if they could pose dangers to the implementation of their services.
- Connection to other Working Groups on strategies for attracting and involving end users.
- Collection and exchange of business models for the deployment of C-ITS infrastructures. Focus here is the business case of public authorities and road operators, including expectations towards improved safety, improved efficiency, and reduced negative environmental impact.

5.2.1 Member structure

For details of the member structure see ANNEX 1

5.2.2 Related milestone

- M18, Report on legal structures for C-ITS operation, (Q2/2018)

5.2.3 Meeting calendar

Quarterly meetings (physical or web meeting) are planned to be carried out from 01/2017 to 01/2018, based on a decision of the Working Group. At least one physical meeting is hereby foreseen, dedicated to deliverable discussion and revision. (All WG members)

After finalization of milestone M18 web based meetings to elaborate and exchange findings of the single pilots might be sufficient.

5.3 WG 2 – Technical Aspects

The focus of this Working Group are technical standardisation and interfacing issues in order to be able to provide a common standard repository in the shape of a web service, incorporating interface description to data and services within the pilot sites.

This includes dedicated monitoring of standards, identification of relevant aspects and alignment with respective pilot requirements. Of course inputs from existing projects (on national as well as international level) and platforms (see as well chapter 7) will be taken into account in the specification drafting.

Traffic management issues, such as usage and processing of data for traffic management, will be identified and integrated into the overall picture of influencing factors, which will also contain the link to urban environments.

In order to ensure C-ITS service consistency for users, recommendations from the road operators' point of view on the visualisation or presentation of messages on HMIs will be discussed and recommendations made.

Overall goals of the working group are, among others:

- to give recommendations on driver information through C-ITS services
- the harmonisation of current and future C-ITS services (Day 1, Day 1.5 and later)
- to contribute to the definition and implementation of a harmonised communication profile for C-ITS pilot services on road infrastructures all across Europe
- to take existing standards in the drafting of specifications into account and to contribute with new and/or updated items to the standardisation processes.

Solutions to be elaborated include:

- a harmonised C-ITS road infrastructure communication profile for all C-Roads pilots covering the day one services
- a C-Roads approach for dealing with security issues for C-ITS service provision and secure communication within the EU C-ITS Trust model
- a C-ITS road infrastructure profile for improving traffic safety for ~~on~~ railway level+crossings
- Common Test and Validation procedures for implementing C-ITS Services in Europe
- how drivers can effectively be supported in understanding C-ITS messages delivered via different channels and consistent with their driving environment
- the methodology for dissemination of C-ITS messages by different communication technologies and their interactions with changing service platforms
- mechanisms to distribute communication certificates to all C-ITS-stations in a secure way and enable trustful communication in the C-ITS network

5.3.1 Task forces

Tasks, which can be seen as core assets of the C-Roads Platform will be handled by separate Task Forces linked to WG 2 . Technical Aspects. This is not only to reflect their importance, but also to

structure them and get them organized in the same way as this is done with Working Groups. Task Forces report to the Working Groups to ensure that all proposed specifications fit together as well in technical terms. To achieve that, all Task Force chairs need to participate as well in Working Group meetings and need to report on progress and results.

Under the umbrella of WG 2, there will be the following 3 task forces:

- TF 1: Security Aspects
- TF 2: Service Harmonization
- TF 3: Infrastructure Communication

5.3.2 Member structure

For details of the member structure see ANNEX 1

5.3.3 Related milestones

- M8, Harmonised communication profile for C-ITS pilot services across Europe . ITS G5 (Q2/2017)
- M10, Test Infrastructure operational (Q3/2017)
- M11, Draft report on European security mechanisms (Q4/2017)
- M12, Test vehicles operational (Q4/2017)
- M16, Harmonised communication profile for C-ITS pilot services across Europe . Hybrid (Q2/2018)
- M17, Final report on European security mechanisms (Q2/2018)

5.3.4 Meeting calendar

Monthly meetings (physical or videoconference) are foreseen from 12/2016 to 05/2018 with at least two physical meetings for document discussion and revision. Additional details on the meeting plan will be elaborated, as soon as the detailed work plans are finalised and agreed.

5.4 WG 3 – Evaluation and Assessment

This WG defines how cross-site tests as well as evaluation are done and which aspects (safety, efficiency, etc.) are assessed in which pilots. This includes:

- Transmitting the achievements of the tasks completed in the other Working Groups to practical environments and also collecting findings from these environments with the overall goal of interoperability and C-ITS service harmonisation. Indicators will deal with improved safety, improved efficiency, and reduced negative environmental impact.
- Defining a methodology and performing cross-site tests all across Europe, including a suitable number of test vehicles/devices per site or pilot implementation
- Assess the impact of the C-ITS services in terms of interoperability, but also regarding sustainability, safety, efficiency, and environmental aspects. Evaluations will include

interoperability and harmonisation between countries, partners, pilot sites and technologies and will help to display the impact of C-ITS on a large scale.

5.4.1 Member structure

For details of the member structure see ANNEX 1

5.4.2 Related milestones

- M15, Evaluation and assessment plan, (Q1/2018)
- M19, Recommendation on driver information through C-ITS services (Q2/2018)
- M32, Detailed evaluation report (Q4/2020)

5.4.3 Meeting calendar

Monthly meetings (physical or videoconference) are foreseen from 12/2016 to 12/2020 with at least two physical meetings for document discussion and revision.

6 Pilot activities

Setup and operation of pilots is in the responsibility of the single C-Roads Platform Member States. Aside pilot specific tests and pilots, each C-ITS Pilot activity shall test at least one on-board unit on all other pilot sites and provide a test report. Consequently, WG 3 . Evaluation and Assessment shall detail the main principles for these tests, in particular as regards the support provided by the "visited site" to the "visitor". Achieving interoperability based on the commonly specified communication profile is a joint responsibility of all C-Roads Platform partners

The pilot operation as detailed in the respective Grant Agreements will take place in all C-Roads Platform Member States.

7 Liaison with external partners

Information exchange with external partners plays an important role for the visibility of the activities of the C-Roads Platform and forms the base for the deployment and further on the use of developments within the C-Roads Platform.

In order to structure this liaison, the following items are agreed:

- Workshops with external partners should happen at least once a year.
- C-Roads partners should (collectively and) actively engage in other Platforms and Groups, such as
 - EU-C-ITS-Platform
 - Amsterdam Group

- Car-to-Car Communication Consortium
- ASECAP COPER III
- CEDR N7
- PIARC TF B.1.
- CODECS/CIMEC project
- EU-Cooperative Corridor projects
- National C-ITS projects
- EU C-ITS Platform and expert group
- and will contribute C-Roads related information to them and report within the C-Roads Platform activities about the liaison and the information exchange.
- The involvement in other Platforms and Groups is also done to ensure a closed link, meaning that experience gained through this participation is then also (vice versa) used within the C-Roads Platform.
- Invitations to selected external experts including representatives of major infrastructure managers not directly involved as platform partners for contributing to single working groups in C-Roads can be a means of active exchange and cooperation.

In the interest of EU interoperability, the solutions developed within the C-Roads Platform will be aligned with the guidelines and framework established for that specific domain by the EU C-ITS Platform and the defined work groups.

8 Interoperability

The C-ITS Platform phase 1 report has generated a C-ITS day one service list+, which forms the basis for the introduction of common services on European roads. This list is supported by various deployment initiatives in Member States and is therefore the starting point for discussing interoperability between roadside installations of C-ITS Services and in vehicle implementations of C-ITS services and applications all over Europe.

However, in this discussion there are several levels of the understanding of interoperability and C-Roads as a Member State driven initiative needs to discuss and agree on the common understanding of the way forward to achieve this high level objective completely and in a consistent way.

The levels of interoperability can be defined as the following ones:

- The basic definitions are the C-ITS standards . and the set of standards and specifications used and referenced as the complete set for the mobile and roadside service implementations
- Where applicable the used specifications are taken to be harmonized with the goal to create profiles of similar use cases.
- To test these common C-Roads specifications joint tests are executed based on predefined test cases. Here the communication level+ message transmission between C-ITS stations from different vendors is tested (e.g. at an ETSI Plug Test).
- Service extensions and introductions in single C-ITS stations, environments and networks. (hybrid cases of service transmission, and extensions to different platforms and channels.)

The C-Roads Platform activities need to analyse these aspects carefully and propose a way forward for achieving interoperability across Europe. Hereby the discussion and agreement of the mobile and roadside specifications are the next key step in the direction of interoperability at a European Level. The elaborated C-Roads specifications are expected to lead towards interoperable operations. In this respect C-Roads specifications will as well be an important source for the further development of ETSI standards, especially when it comes to new scenarios (including on railway-level crossings) and interoperability definitions.

9 Communications

9.1 Internal Communication

To enable fast and direct communication in the various Groups of the C-Roads Platform a number of email distribution lists are created within the single groups involved.

A general rule is, that the topic of all C-Roads related emails shall start with %C-Roads:õ +. This enables a quick recognition of C-Roads related emails for all partners.

9.2 Website

The C-Roads platform-related information (external and internal) will be distributed via the webpage of C-Roads (<http://www.c-roads.eu>). The Member area is at the same time the document repository for all project documentation.

Pilot partners are invited to update their respective information pages.

Member Area, Hierarchies:

A specific password protected C-Roads-Portal will be set up for the exchange of project related documents and reports, presentations etc. within the platform partnership. The website contains a separate member-area, allowing dedicated persons to get access to specific content and documentation not accessible to the general public

Within the member area, there are 2 access-levels:

1st level gives read-access to all content of the member area

2nd level additionally gives write-access. This includes adding of hyperlinks, tables, pictures etc.

Since there is system of sequential numbering for website-changes in place, it is not possible for anyone (beside the administrator) to actually delete any content.

9.3 Documentation

9.3.1 Creating Documents

Project related templates (Word template for reports as well as a PowerPoint template for presentations) that are needed for the official documents will be available on the C-Roads Portal. For project related communication to persons outside the project, these templates have to be used for each Deliverable unless agreed by the C-Roads Steering Committee.

9.3.2 Status of documents within C-Roads

For the effective exchange of documents within the project the following steps during the creation of project documents are defined and used within C-Roads:

- Draft versions (v0.1 to v0.9) (initial status of the document)
- final or version v1.0 (sent to Steering Committee)
- C-Roads approved (approved by Steering Committee)

10 Milestones

In order to achieve the result of the C-Roads initiative the following list of milestones has been agreed by the involved partners. As soon as a milestone has been achieved, the C-Roads Steering Committee needs to be informed. Also a delay needs to be reported as soon as it is identified.

Milestone #	Name	Date	Means of Verification
1	Signature of C-Roads Platform Agreement	Q4/2016	Agreement signed by all Beneficiaries
2	Launch of a web service giving access to the %common standard repository+as well as the interface description to data and services within the pilot sites.	Q4/2016	Web service available to the general public
3	Dissemination Plan	Q4/2016	Report available and approved by the Steering Committee
4	Steering Committee meeting	Q4/2016	Approved set of Documents
5	Annual pilot overview report 2016	Q1/2017	Report available and approved by

			beneficiaries
6	Detailed pilot description and demonstration plan available (platform)	Q2/2017	Report available and approved by the Steering Committee
7	Detailed pilot partner and structures description available (platform)	Q2/2017	Report available and approved by the Steering Committee
8	Harmonised communication profile for C-ITS pilot services across Europe - ITS-G5	Q2/2017	Report available and approved by the Steering Committee
9	Steering Committee meeting	Q2/2017	Approved set of Documents
10	Test infrastructure operational	Q3/2017	Implementation verified by the responsible working group of the platform and ev. by the project management team
11	Draft report on European security mechanism	Q4/2017	Report available and approved by the Steering Committee
12	First test vehicles equipped and operational	Q4/2017	Implementation verified by the responsible working group
13	Steering Committee meeting	Q4/2017	Approved set of Documents
14	Annual pilot overview report 2017	Q1/2018	Report available and approved by beneficiaries
15	Evaluation and Assessment Plan (platform)	Q1/2018	Report available and approved by the Steering Committee

16	Harmonised communication profile for C-ITS pilot services across Europe - Hybrid	Q2/2018	Report available and approved by the Steering Committee
17	Final report on European security mechanism	Q2/2018	Report available and approved by the Steering Committee
18	Report on legal structures for C-ITS operation	Q2/2018	Report available and approved by the Steering Committee
19	Recommendation on driver information through C-ITS services	Q2/2018	Report available and approved by the Steering Committee
20	Steering Committee meeting	Q2/2018	Approved set of Documents
21	Steering Committee meeting	Q4/2018	Approved set of Documents
22	Annual pilot overview report 2018	Q1/2019	Report available and approved by beneficiaries
23	Recommendation on harmonisation of future C-ITS services (Day 1.5 and later)	Q2/2019	Report available and approved by the Steering Committee
24	EU-C-ITS Interoperability Report	Q2/2019	Report available and approved by the Steering Committee
25	Steering Committee meeting	Q2/2019	Approved set of Documents
26	Integrated report about cross-test results of single partners in different pilot sites	Q4/2019	Report available and approved by the Steering Committee
27	All pilots installations finalized and start of regular cross border pilot drives	Q4/2019	Report available and approved by the Steering

			Committee
28	Steering Committee meeting	Q4/2019	Approved set of Documents
29	Annual pilot overview report 2019	Q1/2020	Report available and approved by beneficiaries
30	C-ITS Road show	Q2/2020	Roadshow available for the general public
31	Steering Committee meeting	Q2/2020	Approved set of Documents
32	Detailed evaluation report (platform)	Q4/2020	Report available and approved by the Steering Committee
33	Steering Committee meeting	Q4/2020	Approved set of Documents

Table 2: List of Milestones