5GMOBIX

5G for cooperative & connected automated MOBIlity on X-border corridors

D7.3
Dissemination Plan

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Control sheet

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Table of contents

List of figures

List of tables

ABBREVIATIONS

Abbreviation	Definition
3GPP	3rd Generation Partnership Project
4G	Fourth Generation of Broadband Cellular Network
5G	5th Generation Wireless System
ADAS	Advanced Driver Assistance Systems
CBC	Cross Border Corridor
CCAM	Cooperative, Connected and Automated Mobility
C-ITS	Cooperative ITS
CN	Urban Trial Site China
C-V2X	Cellular V2X
DE	Urban Trial Sites Germany
DoA	Description of Action
EC	European Commission
ES-PT	Cross-Border Corridor Spain – Portugal
ETSI	European Telecommunications Standards Institute
EU	European Union
FI	Urban Trial Site Finland
FOT	Field operational test
GA	General Assembly
GR-TR	Cross-Border Corridor Greece – Turkey
IoT	Internet-of-Things
ITS	Intelligent Transportation Systems
ITS-G5	Standard

KPIs	Key Performance Indicators
KR	Urban Trial Site South Korea
LTE/ LTE-V	Long-Term Evolution, LTE for 'Vehicles'
MEC	Multi-Access/Mobile Edge Computing
NFV	Network Function Virtualization
NL	Urban Trial Site The Netherlands
QoE	Quality of Experience
RAN, C-RAN	Radio Access Network, Cloud-RAN
RTD	Research and Technical Development
SAE	Society of Automotive Engineers
TS	Trial Site
TSL	Trial Site Leader
V2X	Vehicle-to-Everything
WP	Work Package
WPL	Work Package Leader
X-border	Cross-border

EXECUTIVE SUMMARY

Funded under the European Union's Horizon 2020 Framework Programme, the 5G-MOBIX project aims to execute Cooperative, Connected and Automated Mobility (CCAM) trials along x-border and urban corridors using 5G core technological innovations to qualify the 5G infrastructure and evaluate its benefits in the CCAM context as well as to define deployment scenarios and to identify and respond to standardisation and spectrum gaps.

The current document under the title D7.3 Dissemination Plan defines the dissemination strategy and the plan of action that will be implemented by the 5G-MOBIX consortium in order to ensure that the project and its results are effectively communicated throughout the project's lifecycle. It describes the methods, tools and channels that will be employed and serves as a reference point for the activities planned and the role undertaken by the project partners. Moreover, it sets the success criteria for the evaluation of the dissemination activities performed per year. Complementary, the deliverable includes the procedures to be followed for dissemination activities carried out by consortium partners.

D7.3 is a public deliverable of this project, part of WP7 and additionally includes information about the project's scope and objectives as well as the description of WP7 in order to ensure that no prior knowledge related to the project, the DoA and the other WP7 deliverables is requested from the reader. Overall, it is based on, and is consistent with the DoA and the GA, but is not a substitute for reading these documents.

The Dissemination Plan is considered as an adaptive living document and is updated as needed according to different project phases. Four versions have predated the current one. Two versions were submitted in 2019, the first one in March 2019 and the second in November 2019, both at an early stage of the project when significant results for dissemination were not produced yet. The third version was submitted in July 2020, during the first months of the pandemic, reflecting the impact of COVID- 19 in the project's previous dissemination plans. The fourth version was submitted in March 2021, at a time when COVID-19 impacts continued to expand and affect the planning of dissemination activities, due to further cancellations and alterations of scheduled dissemination activities such as participation in events, conferences and so on. At the time of writing the fifth version (March 2022), pandemic restrictions are easing up globally, however, we deem important to aim for and include online alternatives in the plan, in case unforeseen developments negatively affect planned activities.

Considering the above and mainly after the corrective actions asked by EC experts in the 4th review *(October 2021)* the current version 5.0 includes the updated individual dissemination plans prepared by each beneficiary for the period between **January 2022** until the **End of the Project (July 2022)** and detailed descriptions of the dissemination activities which will complement the planned demonstration events.

1. INTRODUCTION

This section introduces the 5G-MOBIX project by describing in brief its aims and objectives, presents the Work package "*Dissemination and Exploitation*" (WP7) and the respective tasks in which this document is part of. Finally, it gives a preview of the D7.3 relation with the other WP7 deliverables.

1.1. The 5G-MOBIX project

5G-MOBIX aims to showcase the added value of 5G technology for advanced Cooperative, Connected and Automated Mobility (CCAM) use cases and validate the viability of the technology to bring automated driving to the next level of vehicle automation (SAE L4 and above). To do this, 5G-MOBIX will demonstrate the potential of different 5G features on real European roads and highways and create and use sustainable business models to develop 5G corridors. 5G-MOBIX will also utilize and upgrade existing key assets (infrastructure, vehicles, components) and the smooth operation and co-existence of 5G within a heterogeneous environment comprised of multiple incumbent technologies such as ITS-G5 and C-V2X. 5G-MOBIX will execute CCAM trials along cross-border (x-border) and urban corridors using 5G core technological innovations to qualify the 5G infrastructure and evaluate its benefits in the CCAM context. The Project will also define deployment scenarios and identify and respond to standardisation and spectrum gaps.

5G-MOBIX will first define critical scenarios needing advanced connectivity provided by 5G, and the required features to enable some advanced CCAM use cases. The matching of these advanced CCAM use cases and the expected benefits of 5G will be tested during trials on 5G corridors in different EU countries as well as in Turkey, China and Korea. The **trials will also** allow 5G-MOBIX to conduct evaluations and impact assessments and to define business impacts and cost/benefit analysis. As a result of these evaluations and international consultations with the public and industry stakeholders, 5G-MOBIX will identify new business opportunities for the 5G enabled CCAM and propose recommendations and options for its deployment. Through its findings on technical requirements and operational conditions 5G-MOBIX is expected to actively contribute to standardisation and spectrum allocation activities.

1.2. WP7 Dissemination and Exploitation

The role of this work package is to coordinate, manage, monitor and report the communication, dissemination and exploitation activities of the 5G-MOBIX project made throughout its lifecycle. The **objectives** of WP7 are to:

1. Bring high-visibility to 5G-MOBIX activities and outcomes by ensuring a presence at relevant events and through web and social media;
2. Foster exploitation of 5G-MOBIX results by involving relevant research organisations as well as business stakeholders and public authority representatives in fora and consultation workshops to ensure the widest diffusion of 5G-MOBIX outcomes;

3 Support the smooth and impactful completion of the whole project and strengthen collaboration amongst European and global partners for research and industry innovation initiatives;
4 Define and implement an effective dissemination and communication strategy to raise awareness, create understanding, foster involvement, and generate commitment amongst the project's target stakeholders;
5 Devise an exploitation plan to ensure the development and sustainability of 5G-MOBIX results beyond the project's life;
6 Facilitate the exchange of knowledge and experience between 5G industry and V2X industry researchers in the EU and beyond (China, Korea) via dedicated events and community building, to stimulate long-term EU and global cooperation and innovation initiatives.

In the frame of achieving the above objectives, WP7 is divided into four tasks *(as foreseen in DoA)* and each one is led by project partners with long experience on the undertaken one. All tasks are directly related to one another and complementary, thus they are aligned under the supervision of WP7 Leader, ERTICO-ITS Europe. In **Table 1,** the WP7 tasks, its leaders and their description are delineated.

Table 1: W7 tasks & description

Task & Leader	Task Description
Task 7.1: Communication strategy and tools **Leader:** *ERTICO ITS-Europe*	Ensure the widespread communication of project concept and approach, to address a multitude of audiences, raise awareness and enhance the visibility of the project, in order to facilitate the dissemination and exploitation of the project's results. Define and implement a communication strategy including the objectives to be achieved, the target groups, key messages and channels; to create the project's brand identity; to design and publish the project's website and establish its social media presence; to publish periodic newsflashes; to design and produce the project's communication kit.
Task 7.2: Dissemination activities and events **Leader:** ICCS	Implement a strategy to ensure that the project results are properly disseminated to the relevant stakeholders and expert communities, in order to increase the outreach and maximize the project results' impact in Europe and beyond. Organize the presentation of the 5G-MOBIX activities and results in conferences, technical workshops and demonstration events *(particularly at each x-border corridor and trial site)*, in exhibitions and webinars, and in high quality scientific publications *(in conference proceedings and scientific and technology journals)*; to coordinate the liaison activities with other relevant projects, especially from the 5G-PPP Phase 2 and 3.
Task 7.3: Exploitation **Leader:** VICOMTECH	Develop a plan and strategy for the project's results exploitation. Identify key scientific and technical achievements; based on which to develop a business model and business exploitation plan; and develop a roadmap for large-scale deployment of the project outcomes.

Task 7.4: International cooperation **Leader:** UL	Foster the international cooperation with other projects and initiatives, active in the field of 5G and Cooperative, Connected and Automated. Ensure alignment and develop cooperation agreements with related projects and fora in USA, China, Japan, Brazil, South Korea.

1.3. The deliverable: D7.3 Dissemination Plan

Communication and dissemination strategy is really important to be established from the early stages of the project in order to ensure the effectiveness of such activities by the project partners. To this end, two separate documents have been created as foreseen in DoA:

a) **D7.1 Communication strategy and plan;** and

b) **D7.3 Dissemination plan.**

The aforementioned documents are directly interrelated to one another.

The deliverable **D7.1 Communication strategy and plan** focuses on the communication activities that will maximise the project's public awareness and visibility. Complementarily, the **D7.3 Dissemination plan** provides a detailed dissemination plan aiming to maximise the impact of project's results and outcomes. The dissemination plan describes the channels and tools to be deployed as well as well as the planned activities in order to disseminate project's results and outcomes. It should be noted that this deliverable acts as a reference point for the 5G-MOBIX partners regarding planned activities, dissemination opportunities and procedures.

All procedures included in D7.3 are in line with the **Consortium Agreement** and the H2020 communication and dissemination guidance for research & innovation projects.

1.3.1. Scope and objectives

The scope of this deliverable is to describe the project's dissemination plan which includes details regarding the methods, tools and channels to be utilized and the related foreseen actions that will be made by the 5G-MOBIX consortium during its lifecycle. In addition, it plays a significant role in establishing a common understanding amongst project partners by defining - in a clear manner - the required actions, the timeframe to be realized, the internal procedures to be followed and the success criteria (KPIs) of the performed activities. Nevertheless, it will be regularly reviewed and updated based on project's evolution and new knowledge acquired. If needed, corrective actions will be taken, in close collaboration with the WP leader and the consortium. Overall, the expected result of this dissemination plan is to achieve significant awareness of the initiative, an understanding of its benefits and active interaction with necessary stakeholders.

1.3.2. Intended Audience

The deliverable D7.3 is mainly addressed to the European Commission *(funding authority*) as well as the 5G-MOBIX consortium partners without though excluding other audiences interested in reading it. The table below presents in detail all such groups and the reasons for interest in reading.

Table 2: Intended audience

Intended audience	Reasons for interest in reading
5G-MOBIX project partners	To be informed as well as ensure common understanding amongst the consortium in regards to the project's dissemination plan *(methods, tools & channels to be deployed, action plan).*
European Commission	As the funding authority to assess the planned activities of the project and the quality of the document. It constitutes an official document of the project.
Target Groups *(industries, institutions, scientific and research community, users)*	To be informed about the project in general; its scope; the dissemination activities that will be performed during its implementation and discover the channels from where they could acquire the project's results.
Representatives of organizations involved into projects under similar topic	To share knowledge, best practices, lessons learned that might find them useful in the implementation of their dissemination activities. In addition, this document can assist in introducing the project into similar ones and lead in possible communication and dissemination synergies by identifying opportunities for future joint actions.
Anyone interested	To be informed about the topic of the project in general and its scope; the methods, tools and channels deployed for promoting 5G-MOBIX and its results.

1.3.3. Structure of the deliverable

D7.3 is comprised of **5 chapters** and **6 appendixes**. The first chapter introduces the reader to the 5G-MOBIX project, its objectives as well as the objectives of WP7. Additionally, it describes the scope of the current deliverable, the audience that is addressed to, its relation to other WP7 deliverables and the COVID pandemic effects on the project's dissemination strategy. The second chapter presents the dissemination objectives, targeted audiences and the methods, tools and channels that will be used. The third chapter forms a roadmap with information around targeted events, conferences, journals and so on accompanied

by a detailed action plan. The fourth chapter sets the success criteria for the evaluation of the performed dissemination activities per year within the 5G-MOBIX lifecycle. Lastly, the fifth chapter concludes this document.

Annex 1 includes information about the dissemination procedure, describing the guidelines and the main steps to be followed by partners for the publication or presentation of work done within the framework of the 5G-MOBIX project. Annex 2 includes the dissemination request form that partners need to fill in, providing necessary information about a planned dissemination activity and request approval from the consortium. Annex 3 presents the dissemination activity report template that partners need to fill in after the realization of the approved dissemination activity, providing additional information for progress reporting purposes and further communication. Annex 4 includes the non-European travel Report Template that partners need to fill-in and send for approval before participating in dissemination activities at conferences and events outside Europe. Annex 5 includes a list of performed dissemination activities (publications, presentations, exhibition booths, webinars, etc.) as recorded on the excel file "5G-MOBIX-Performed dissemination activities". Finally, Annex 6 includes the forms filled in by trial site leaders with information on each demonstration event organisation.

1.3.4. Relation of D7.3 to other WP7 deliverables

Communication activities require targeted messages to address a multitude of audiences, including the media and the public. Dissemination activities address key messages to specific audiences in the research community, industrial sector and all relevant stakeholders. Thus, D7.1 includes the 5G-MOBIX target groups and key messages which are used in the activities defined in the dissemination strategy. Additionally, D7.1 defines the communication channels *(namely website, social media, promotional material)* to be used to convey the messages and reach out to the targeted audience groups. Complementary, D7.3 defines the dissemination plan which includes the main channels to be used for dissemination purposes, namely **i) conferences and events** *(participation and presentations to be made);* **ii) scientific publications, iii) project's main demo events; iv) project's short demo events** organized within major conferences **v) webinars;** and **vi) liaison activities** with related initiatives.

Table 3: Relation of D7.3 to other WP7 deliverables

WP7 Deliverables	Dependencies and relation
D7.1 Communication strategy and plan	It includes the target groups for dissemination, the channels and the planned activities. – *Delivered in M3*
D7.2 Project communication identity and website	The project communication identity *(logos, posters, leaflets, templates)* is presented and will be used in all communication and dissemination activities. – *Delivered in M4*
D7.7 Report on the dissemination activities	It is a report on the dissemination activities performed and will be delivered at the completion of the project. It will also include the results of the dissemination activities based on the initial targets.

1.4. COVID-19 pandemic impact on the project's dissemination strategy

The outbreak of the pandemic and the restrictions that followed in 2020 had a significant impact on the participation of 5G-MOBIX consortium at events for disseminating the project. Due to the cancellation of several major events and conferences, 5G-MOBIX missed dissemination opportunities and had to cancel/readjust planned activities. On Table 4 you can find an overview of all scheduled events in 2020 that were cancelled or altered due to Covid-19 restrictions. For reader's ease the **cancelled** events are marked with **light grey colour,** while the rest took place **virtually** *(online).*

Table 4: Cancelled/Altered 2020 Events

Name of the event *(which event)*	Date *(when)*	Place *(Where)*
5G Forum	6-7 May 2020	Malaga, Spain
mobi_ (World Mobility and Sustainability Summit)	March 2020	Madrid, Spain
L3Pilot Summer School	13-14 May 2020	Athens, Greece
ITS European Congress 2020	18-20 May 2020 (postponed to Oct 2021)	Lisbon, Portugal
IEEE Vehicular Technology Conference (VTC) Spring	25-28 May 2020	Helsinki, Finland
XX Congreso ITS-Spain	01-03 June 2020	Madrid, Spain
IEEE International Conference on Communications	07-11 June 2020	Dublin, Ireland
EuCNC 2020	15-18 June 2020	Dubrovnic, Croatia
Automotive Testing Expo Europe	16-18 June 2020	Stuttgart, Germany
Smart Industries	23-26 June 2020	Paris, France
Jornada sobre Infraestructura Inteligente y Conectada (Workshop on Connected & Smart Infrastructure)	11 March 2020	Madrid, Spain
IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)	31 Aug – 03 Sep 2020	London, UK
Future Mobility Summit 2020	07-08 Sep 2020	Berlin, Germany

NGMN Industry Conference & Exhibition 2020	08-10 Sep 2020	Paris, France
ICT Spring Europe	15-16 Sept 2020, 2021	Luxembourg
5GLIVE 2020	23-24 Sep 2020	London, UK
MWC Barcelona 2020	February 24-27, 2020	Barcelona, Spain
TRA 2020	April 27-30, 2020	Helsinki, Finland
European ITS Congress	May 18-20, 2020	Lisbon, Portugal
ITS World Congress 2020	04-08 Oct 2020	Los Angeles, USA
South Summit	06-08 October 2020	Madrid, Spain
IEEE Vehicular Networking Conference (VNC) 2020	28-30 October 2020	Ulm, Germany
Smart City Expo World Congress	17-19 November 2020	Barcelona, Spain
IoT Week GIoTS Opening Ceremony	01-05 June 2020	Dublin, Ireland

The cancelation or alteration of the aforementioned events inevitably influenced not only the realization but also the nature of the project's planned dissemination activities. At this point, it should be stressed that the communication strategy and plan is and has been a flexible, adaptive and living document designed as a map to which partners can refer to during the various project development stages in order to ensure that information about the project and its results are effectively communicated and disseminated over its lifetime and beyond. Thus, after the pandemic's outbreak and the project's extension, the planned 5G-MOBIX attendance to events was re-evaluated as all physical events were postponed or cancelled and further opportunities were sought in order to promote the project via online events and participate virtually. Since the beginning of the pandemic more than 58 presentations (Annex 5, March 2020 – December 2021) were held virtually at conferences and events while some remote driving demonstrations were livestreamed and uploaded online, e.g., the field demonstration of service continuity for remote driving in a 5G multi-PLMN environment during the 2021 IEEE 4th 5G World Forum (13-15 Oct. 2021).

Moreover, the 5G-MOBIX consortium took the opportunity to organize 3 virtual exhibition stands presenting various information and results of the project to online conferences, namely at the ITS Virtual Congress in November 2020, at the EUCAD in April 2021 and at the EuCNC & 6G Summit in June 2021. Online tools and channels were utilized for the dissemination of the project when applicable: more attention was given to the organization of online events/webinars (six webinars were added to the previous webinars' plan for the last year of the project to widely disseminate each trial site results) and to the website, social media and the newsletter, to reach the project's dissemination objectives and goals.

2. DISSEMINATION PLAN

2.1. Dissemination objectives

The specific objective of Task 7.2 defined in the project's Grant Agreement is to ensure that the 5G-MOBIX results are systematically disseminated to the expert communities and to relevant stakeholders throughout the lifetime of the project and increase the reach and impact of 5G-MOBIX in EU, China and Korea and beyond.

The high-level objectives of the dissemination strategy and plan are summarised as follows:

1. Disseminate the project's results and outcomes to the relevant stakeholder and expert communities in order to raise awareness *(and encourage their uptake);*
2. Ensure the involvement of the relevant research organisations as well as business stakeholders and public authorities' representatives;
3. Support the impactful completion of the whole project and strengthen collaboration amongst European and global partners for research and industry innovation initiatives;
4. Coordinate with other relevant actors, related projects and standardisation bodies, facilitating the exchange of knowledge and experience between industry and research community.

The dissemination strategy is focused on addressing key messages[1] to relevant actors and targeted communities *("target groups").* To this end, dissemination activities are performed through a variety of channels, in order to raise awareness of the project results, inform relevant stakeholders about 5G and V2X combined deployment; scenarios, use cases and architectures for the trials conducted; developments and results of the tested scenarios; as well as to ensure the Europe-wide and global availability of exploitable results.

2.2. Dissemination Target Groups (audience)

The overall target groups of the project that also include the communication activities have already been presented in deliverable **D7.1 Communication strategy and plan** *(pp.10-11).* However, the target groups of dissemination activities slightly differ. The **general public** is not included in such activities as the dissemination ones are addressed to groups that project's results can produce potential implications and benefits. Specifically, 5G-MOBIX dissemination activities aim to establish a dialogue and demonstrate the research output to major automotive and telecommunications industries, institutions, scientific and research communities as well as final users, e.g., user groups impacted by the technologies, public transport operators, mobile operators, end-user associations.

[1] 5G-MOBIX key messages have been determined in the context of the communication strategy and are documented in D7.1 Communication strategy and plan (pp. 12-14).

Given that the dissemination level of the current deliverable is public and available to anyone interested in and for ensuring that no prior knowledge and / or reading of any other related 5G-MOBIX deliverable/s is required by the reader the 5G-MOBIX Dissemination target groups are presented in the table below.

Table 5: 5G-MOBIX Dissemination Target Groups

Key audience	Further segmentation
i. **Industries** *(for business exploitation)*	Including but not limited to: vehicle manufacturers and automotive suppliers; ICT & software suppliers; infrastructure suppliers; insurance companies; telecommunication.
ii. Institutions *(for implementation and follow up/take-up aspects)*	Including but not limited to: policy and decision makers at European, national or regional level; local, regional or national public authorities; standardisation bodies; national authorities for privacy; national or regional funding bodies; road operators and traffic management centres, etc.
iii. Scientific and research community *(for cross-fertilization and transfer of results to follow-up initiatives)*	Including but not limited to: academic and research institutions; operators of test sites and living labs to integrate piloted V2X technologies for future applications, etc.
iv. Users *(for acceptance, usability and impact assessment as well as take-up aspects)*	Including but not limited to: sector or geographical organisations of industrial end users e.g., clusters, associations; user groups impacted by V2X technologies e.g., public transport operators, mobile operators; end-user associations e.g., citizen associations interested in security/privacy issues.

2.3. The Strategy

The purpose of the dissemination strategy described in the current section is to provide an overall framework and guidelines for the successful implementation of all dissemination activities and ensuring that they are aligned with the overall goals of the project. To that end the strategy is composed of interrelated activities whose purpose is to inform the target groups about the produced results of the project with the scope of getting them involved and possibly contribute by providing feedback to consortium.

The rationale behind an effective dissemination strategy is imprinted by answering the following questions: a) **Why?** *(Reasons for dissemination)*, b) **What?** *(Information to be disseminated)* c) **How?** *(Tools and Channels)*; d) **Who?** *(Consortium partner/s); e)* **When?** *(Time)*; f) **To Whom?** *(Categories of Audience);* and g) **Where?** *(Location).*

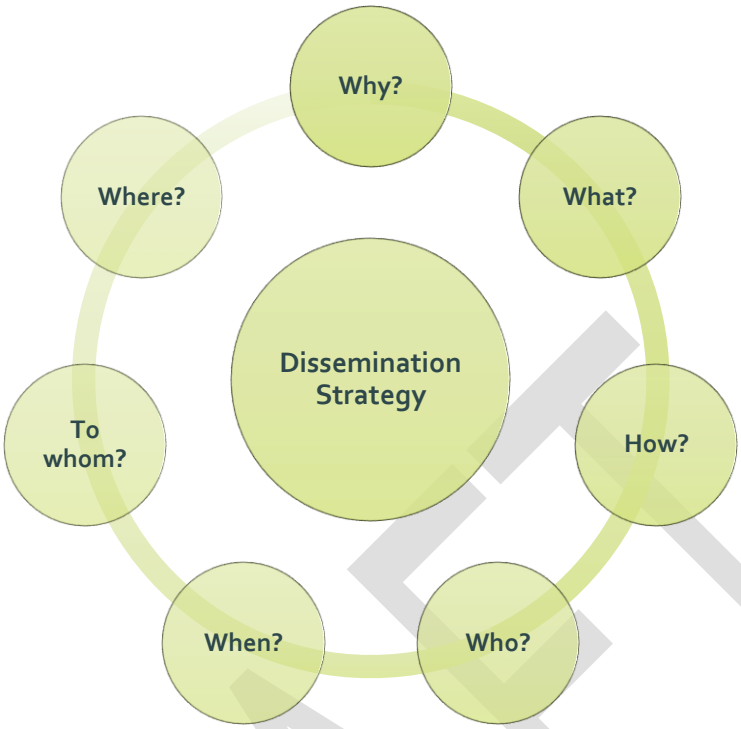

Figure 1: Dissemination Strategy Elements

Table 6: Dissemination Strategy

Questions	Description
Why? *(Reasons for dissemination)*	- contractual obligation of the consortium - demonstrate the research - transfer results to follow-up initiatives - receive feedback from the users - prepare the ground for the exploitation actions
What? *(Information to be disseminated)*	**- Project achievements**: Anything that has been achieved and how it was achieved. Examples: completion of deliverables, tasks, milestones, project events. **- Project results:** Examples: public deliverables, good practice and methodologies applied for implementing and delivering the project results. - **Lessons learnt** *(bad or good ones):* Anything related to the project that is useful for third parties to become aware and either endorse or avoid.

How? *(Tools and channels)*	Via the project website, e-newsletters, social media accounts, publications, peer-reviewed journal articles, press releases, third party events, conferences, workshops, fairs and exhibitions.
Who? *(Consortium partners)*	The project partner that has undertaken to lead the activity together with the contributors.
To Whom? *(Categories of audience)*	- Stakeholders - Industries - Users - Decision makers - Policy makers
When? *(Time)*	The scheduled time within the project's lifecycle that the activity will occur.
Where? *(Location)*	- Local level in pilot sites and cross border corridors - National level in the project partner countries - European level - International level

The four **processes** involved in the dissemination and communication strategy are:

- Identification of the **dissemination and communication activities**
- Identification of the **communication objectives**
- **Identification of the target groups**
- **Determination of the information to be provided - The message**

Dissemination strategy concerns all WPs activities and has an impact on the project as a whole. It is addressed to all 5G-MOBIX project partners in order to align their work (*e.g., conduct demonstrations, attending conferences, make presentations etc.)* accordingly with this strategy.

2.4. Dissemination methods, tools and channels

Dissemination **methods** that will be employed are **publications** (*conference proceedings, journals*), **face-to-face activities** such as workshops, meetings, demonstrations and so on; **online activities** which include the project's website, e-newsletters, invitations via email direct distribution; **press-based activities** i.e. press releases, TV or radio interviews, articles on press; **direct distribution of paper-based promotional materials** *(brochures, flyers)* in events, meetings, workshops etc.; and **establishing collaborations** *(liaisons)* with similar projects, initiatives and organizations.

A wide range of **tools** will be utilized for disseminating effectively the project, its developments and results and namely are:

- **E-Newsletter issues** will be published throughout the project's lifecycle[2].
- **Roll up banners** will be created for point of reference usage in major events and conferences and reinforce the on-spot activities of project partners.
- **Flyers and Brochures** in printable format for distribution in all kind of events and face-to-face meetings with stakeholders. It should be noted that the digital format of those promotional materials will also be available online at 5G-MOBIX website for anyone interested in.
- **Demos** and / or **videos** related to project's developments.
- **Press releases** for announcing to target audience as well as to general public *(in pilot sites)* the most important achievements of the consortium. These press releases will initially be published in English and depending on the targeted media translation will be required in partner's language.
- **Consortium interviews** for tackling the absence of physical events in 2020 *(due to COVID-19)*, a series of interviews with each of the consortium partner will be published bi-monthly on the project's website and social media *(launch in June 2020).*

A variety of **channels** will be used in order to effectively reach out the identified key audiences, taking into consideration the specific characteristics and needs of each group. The following list is not exhaustive as new needs or opportunities may arise in the course of the project implementation:

a) Presentations at external conferences, workshops and other external events;
b) Project events *(demonstrations events, including the final event, and technical workshops);*
c) Webinars;
d) 5G-MOBIX website;
e) Journals and other scientific publications;
f) Liaison activities with related projects and organisations.

Presentations at external events, in webinars or at events organised by the project ensure visibility and raise awareness and understanding of the project activities and outcomes to the relevant stakeholder communities. Together with the scientific publications, they foster exploitation and uptake of the project results. Consultation workshops and liaison activities involve and strengthen collaboration with relevant research organisations, business stakeholders and public authority representatives inside and outside Europe. They also facilitate the exchange of knowledge and experience between industry and research stakeholders.

[2] The original Communication Plan foresees one newsletter issue every 2 months. In the first half of 2020, due to the COVID-19 outbreak and the consequent travel restrictions and events cancellations, which led to a reduced production of relevant content, the newsletter has not been sent out regularly. It has been restored starting from May 2020, as a promotion tool for the 5G MOBIX webinars series.

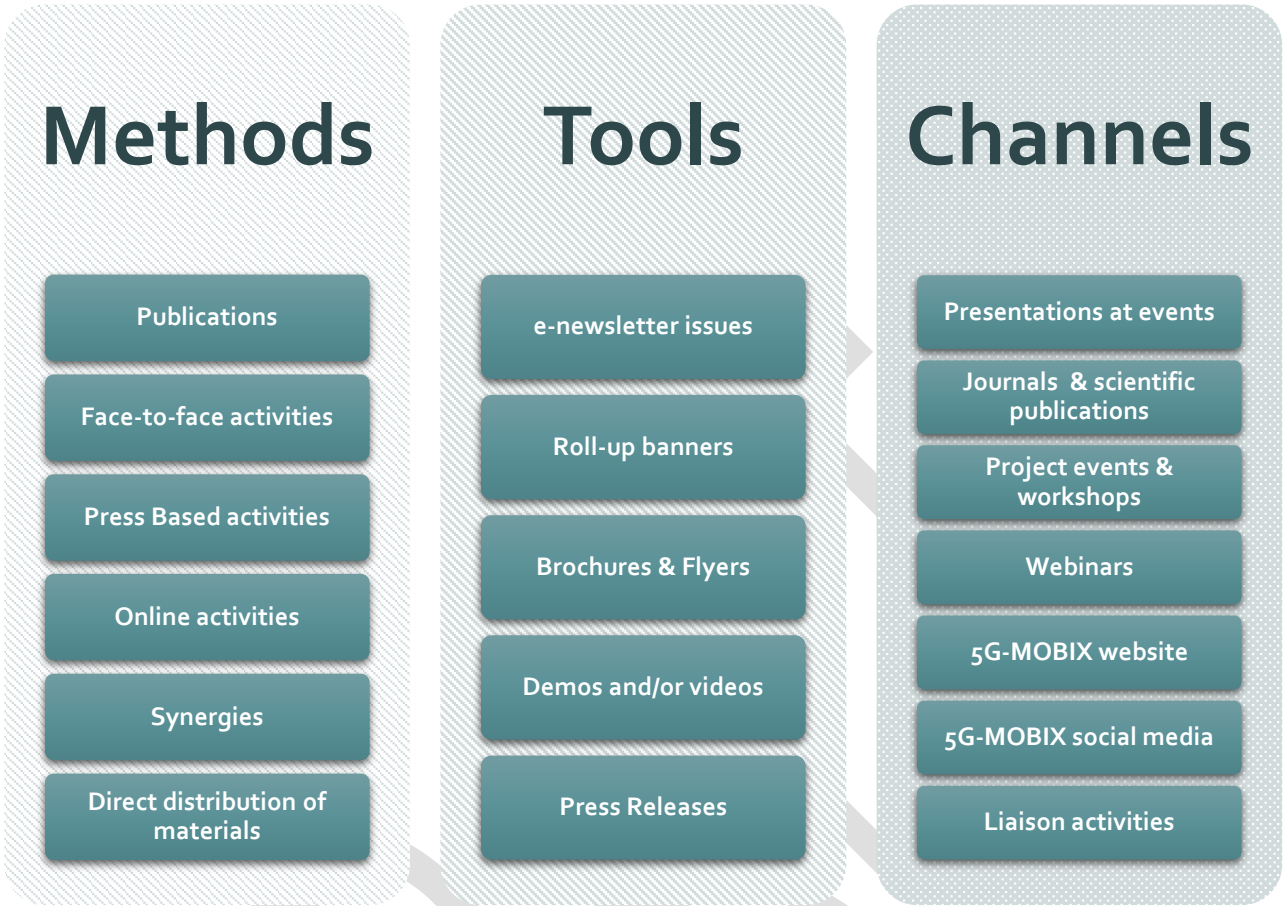

Figure 2: Dissemination Methods, Tools and Channels

2.4.1. Presentations at conferences, workshops and other events

One of the project's major dissemination activities is the participation in external conferences, workshops and other external events, including trade shows and exhibitions with the aim to disseminate the project's progress and its results, as well as to receive feedback from experts and relevant stakeholders.

Special effort will be made for participating in annual **ITS European Congresses**, **Mobile World Congresses** and **EUCNCs** without thought neglecting to seek any other opportunity to represent the project at relevant international conferences and congresses, following the 5G-MOBIX dissemination procedures, guidelines and in respect to its brand identity. Where possible, the project will capitalise on partners' or European Commission presence at international or regional events. The full list of the targeted events is provided in **subsection 3.1.2** of this document and constantly will be updated throughout the project's lifecycle.

2.4.1.1. CBC and Trial Sites Main Demo events

5G-MOBIX will use state of the art automotive technology in combination with 5G features within heterogeneous environments comprised of multiple incumbent technologies such as ITS-G5 and C-V2X. Trials will take place in real roads and highways, both cross-border corridors and urban trial sites, of

significantly diverse road conditions and driving cultures and needs aiming to advance CCAM use cases, optimize their functionality depending on the environment and define innovative upgraded functions based on 5G connectivity.

A set of **eight trials** has been selected to conduct 5G –MOBIX experiments:

a) **Two cross-border corridors** within the EU region, namely **Spain – Portugal** *(ES-PT)* and the **Greece – Turkey** *(GR-TR);*
b) **Six urban test sites**: Versailles *(France, FR)*, Berlin and Stuttgart *(Germany, DE)*, Eindhoven-Helmond *(The Netherlands, NL*) and Espoo *(Finland, FI)* and two additional places outside EU in Jinan *(China, CN)* and Yeonggwang *(South Korea, KR).*

Figure 3: The European/Asian location of the eight 5G-MOBIX cross-border corridors and trial sites

The project will organize two types of demo events clustered into the following categories:

1) The **main demo events** that will take place at the actual CBC/TS locations ***(1 per site/corridor*** *when ready to demonstrate full functionality);*

2) **Short Demo events** taking place at major conferences/ public events where part of the functionality will be showcased.

The **main demo events** in each corridor and urban test site will present and discuss trial results and achievements, with the aim to multiply the impact of the project results towards the different key audiences and encourage stakeholders to share their vision and common understanding of the project's concept and approach. In the context of these events, the local and national press will be invited. Press conferences or briefings involving the local authorities and a tour of the demonstrations will be organised. One of the abovementioned events will be the final event, with a specific focus on the way forward for the exploitation

and sustainability of cooperation in this area. Particular emphasis will be placed on attracting industry and academic research institutes through roundtable discussions.

Moreover, **short demo events** will be organized at key events/conferences showcasing functionality aspects and when possible, they will be combined with technical workshops based upon the project's needs and milestones, for example stakeholder consultation needed as input to some deliverable or milestone.

2.4.2. Webinars

Through the organisation of **fourteen webinars** during the project's lifetime, 5G-MOBIX will address different topics and stakeholders and provide a comprehensive view on particular results of the project. The first webinar entitled *"Cooperative, Connected and Automated Mobility use cases for initial deployment of 5G technological innovations"* took place on 16 September 2019. Its purpose was to present an overview of the project's concept and approach, uses cases and trial sites. A series of theme-oriented webinars will follow, according to the project's phase, developments and outcomes. In **subsection 3.2.6,** the list with the anticipated webinars, the timeline and their topics is presented.

Four webinars were organised during the first two years (M1-M26) and ten more are foreseen for the last years of the project (M27-M45). The recordings of the webinars will be available on the 5G-MOBIX website, together with the presentations made during each webinar.

2.4.3. 5G-MOBIX Website

The 5G-MOBIX website will be the main online communication channel of the project with the target groups and general public. However, it will also be used for project's dissemination activities as they are deeply interlinked with communication ones. Through this channel, the consortium aims to sustain the 5G-MOBIX results after the end of its lifecycle. During the implementation period and according to the dissemination stages, the content of the website will change from project oriented to results produced oriented. It will include public deliverables, publications *(pre-prints or under any other form that could legally be available public),* project activities such as organization of 5G-MOBIX events/webinars, links from the established dissemination synergies with similar projects and initiatives as well as news from any performed joint activities with them.

2.4.4. 5G-MOBIX social media

Within the context of promoting the project results in a more targeted manner, the social media accounts presented in D7.1[3] will also be utilized with constant updates (posts) about:

- 5G-MOBIX **publications**;

[3] LinkedIn group and Twitter accounts of ERTICO Innovation (@ERTICO); 5G-PPP @5GPPP; Project partners' Twitter accounts

- **Events** such workshops, webinars, demo, presentations and so on **organized by the consortium**;
- Videos potentially created to present the 5G-MOBIX **results**
- 5G-MOBIX **public deliverables**;
- 5G- MOBIX participation in **events and conferences**;
- 5G-MOBIX **e-newsletter issues**;
- 5G-MOBIX **promotional materials**;
- 5G-MOBIX **press releases**,
- 5G-MOBIX **liaison activities** with other 5G for CCAM projects.

The social media posts will be managed and updated by ICCS, Task leader of 7.2. Moreover, project partners are requested to contribute by posting to their organization's accounts by using the hashtag **#5GMOBIX.** All partners are responsible to provide content, information from their dissemination activities and news and/or developments of their work that would possibly interest the target groups. Moreover, they are strongly encouraged to disseminate these social media posts via their own separate channels. All social media activities will be aligned with the dissemination stages of the project and in regards to the availability of publicly announced results.

2.4.5. Journals and other scientific publications

Publications are an essential mean of raising awareness of the project's output for uptake, namely to the scientific and professional community. For this purpose, high-quality 5G-MOBIX scientific papers and technical articles will be submitted for publication in conference proceedings, scientific peer-reviewed journals, technical magazines as well as trade and magazines. In line with the Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020[4], the project beneficiaries will aim to ensure open access ('gold', or 'green') to all peer-reviewed publications relating to the project results

2.4.6. Liaison activities with related projects and organizations

5G-MOBIX consortium will coordinate with other relevant actors and build on top of existing national and European projects and initiatives that are already building similar CCAM use cases. Possible collaboration in joint workshops or other activities and events *(e.g., webinars, exhibition stands, conferences, etc.)* will be sought wherever possible. 5G-MOBIX will invite members of projects as speakers in the project webinars and workshops, in order to exchange knowledge and provide insights into e.g., 5G technologies for Cooperative, Connected and Automated Mobility, the envisioned business models and the state-of-art results from their research. Moreover, the project will seek to participate in related projects' events with the aim to present the project's approach, use cases and outcomes and to have an exchange of views in common research fields. Partners also seek every opportunity to discuss 5G-MOBIX evolutions within related

[4] https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

organizations, associations and networks where they already participate, and technical advances are presented in respective technical meetings and fora.

2.4.6.1. Indicative list of related projects and relevant organizations

The establishment of possible collaborations in joint workshops, webinars and other events and activities will be sought within the related projects and relevant organization that are indicatively listed in **Table 7.** All liaison activities will mainly be communicated via the 5G-MOBIX website without excluding other channels that the consortium uses such as e-newsletter issues, social media and so on.

Table 7: Indicative 5G-MOBIX related projects

No.	Initiative *(Call)*	Relevance to 5G-MOBIX
1.	5GCroCo	Trials on 5G technologies in the cross-border corridors, definition of new business models that can be built on top of this unprecedented connectivity and service provisioning capacity, impact to relevant standardization bodies from the telco and automotive industries.
2.	5G-CARMEN	Cross-border trials of 5G technologies in different use cases from Bologna to Munich, spanning 600 km of roads, connecting three European regions (Bavaria, Tirol and Trentino / South-Tyrol). The project will build a 5G-enabled corridor to conduct cross-border trials and will deploy a mixture of 5G micro- and macro-cells for ubiquitous C-V2X connectivity. The 5G New Radio will be used to support latency sensitive and/or bandwidth hungry services and applications. The project will leverage on a distributed mobile edge cloud spanning from the vehicle itself to the centralised cloud.
3.	5G-EVE	5G-EVE is establishing the foundations for a pervasive roll-out of end-to-end 5G networks in Europe. 5G-EVE supports this fundamental transition by offering to vertical industries and to all 5GPPP Phase3 projects facilities to validate their network KPIs and their services. Important representatives of these vertical industries are directly involved as partners of 5G-EVE exactly to influence the design of the end-to-end 5G services, and to provide an early assessment.
4.	5GENESIS	The main goal of 5GENESIS to validate 5G KPIs for various 5G use cases, in both controlled set-ups and large-scale events. This will be achieved by bringing together results from a considerable number of EU projects as well as the partners' internal R&D activities in order to realise an integrated End-to-end 5G Facility, built on five diverse in terms of capabilities –yet fully interoperable- experimentation platforms distributed across Europe and interconnected with each other.

5.	5G-VINNI	5G-VINNI will accelerate the uptake of 5G in Europe by providing an end-to-end (E2E) facility that validates the performance of new 5G technologies by operating trials of advanced vertical sector services.
6.	5G-DRIVE	Trial and validation of interoperability between EU & China 5G networks operating at 3.5 GHz bands for enhanced Mobile Broadband (eMBB) and 3.5 & 5.9 GHz bands for V2X scenarios.
7.	C-ROADS	The C-Roads Platform is a joint initiative of European Member States and road operators for testing and implementing C-ITS services in light of cross-border harmonisation and interoperability. (A-to-Be, CTAG, SIEMENS, TIS, VIGO, INFRAESTRUTURAS DE PORTUGAL).
8.	CONCORDA	Integration of current and future connectivity solutions (ETSI ITS-G5, cellular based 3G/4G/LTE, pre5G LTE-V and MEC) with the ADAS domain. CONCORDA will be an architectural reference model and provide the initial set of key building blocks.
9.	ICT4CART	Hybrid communication approach where all the major wireless technologies, i.e. cellular, ITS G5 and LTE-V, are integrated under a flexible "sliced" network architecture to enable the transition towards road transport automation.
10.	INFRAMIX	Preparation of the road infrastructure (both physical and digital) to facilitate the gradual insertion of automated vehicles in conventional traffic.
11.	AUTOPILOT	IoT Large-Scale Pilots for the automated vehicle in a connected environment. IoT devices and cloud computing to progress automated driving.
12.	MATILDA	Development of software for 5G-ready applications, as well as virtual and physical network functions and network services over sliced programmable infrastructure.
13.	CHARISMA	Converged heterogeneous advanced 5G cloud-RAN architecture for intelligent and secure media access. CHARISMA targets the 5G-PPP objectives of 1000-fold increased mobile data volume, 10-100 times higher data rates, 10-100 times more connected devices and 5x reduced latency.
14.	TRIANGLE	Development of a framework that facilitates the evaluation of the Quality of Experience (QoE) of new mobile applications, services and devices designed to operate in the future 5G mobile broadband networks.
15.	5G!PAGODA	Development of a scalable 5G slicing architecture, extending the current NFV architecture towards support of different specialized network slices composed of multivendor virtualized network functions.

16.	ONE5G	Boost the capacity of mobile networks, improve their energy efficiency and enable a variety of new vertical use cases in dense urban areas as well as in rural environments.
17.	5G-TOURS	Smart-mobility use cases; Athens is one of the trial cities for the transport-related services. The addressed business industry segments can also be relevant for our business exploitation activities.
18.	5GROWTH	AI-driven Automated and Sharable 5G End-to-End Solution namely for the Transportation Industry. Experimentation sites and partners in Portugal-Spain.
19.	5G-HEART	5G validation trials project (trial site in Greece) including transport use cases (autonomous/assisted/remote driving and vehicle data services). The consortium includes major vertical players, research/academic institutions and SMEs. 5G-HEART KPI validation ensures namely business models in a 5G market.
20.	Coventry Institute for Future Transport and Cities	As part of the Coventry University, the Institute for Future Transport and Cities brings together world class expertise in disciplines across art and design, human factors, engineering, manufacturing, computer systems and business studies. Key partner involved in West Midlands CAV testing projects and 5G testbeds. A new cross-border project is underway in Dover.
21.	5G-ACIA	5G-ACIA ensures the best possible applicability of 5G technology and 5G networks for the manufacturing and process industry by addressing, discussing and evaluating relevant technical, regulatory and business aspects. 5G-ACIA will ensure that the interests and particular aspects of the industrial domain are adequately considered in 5G standardization and regulation. 5G-ACIA will further ensure that the on-going 5G developments are understood by and transferred to the industrial domain.
22.	5G IA	The primary objective of the 5G IA is to promote and support European leadership for the development, deployment and evolution of 5G and ensuring a clear European voice on 5G around the world. This involves actively promoting all parts of the 5G lifecycle and ecosystems. The 5G IA has an Automotive Working Group focuses on connected and automated mobility and serves as a common platform between 5G-PPP projects developing V2X and Vehicle-as-Infrastructure concepts and components.
23.	5G Forum South Korea	Public private partnership to promote next–generation 5G wireless communication. The Korea 5G Forum was founded by the Ministry of Science, ICT (information and communications technology) and Future Planning (MSIP) to lead the development of 5G mobile wireless communications and to commercialize 5G technology. The forum cooperates internationally on standardization, research

		and development, and in creating an ecosystem for the next generation of wireless communications. South Korea is the first country to put 5G into large-scale commercial use
24.	5G Americas	Industry trade organization composed of leading telecommunications service providers and manufacturers. The organization's mission is to advocate for and foster the advancement and full capabilities of LTE wireless technologies and their evolution to 5G, throughout the ecosystem's networks, services, applications and connected devices in the Americas. 5G Americas is invested in developing a connected wireless community while leading 5G development for all the Americas.
25.	IMT-2020	The China IMT-2020 (5G) Promotion Group was jointly established in 2013 by the Chinese Ministry of Industry and Information Technology, the National Development and Reform Commission, and the Ministry of Science and Technology, based on the original IMT-Advanced Promotion Group. In China, it is the primary platform through which 5G research and international exchange and cooperation is conducted. Its members include the leading operators, vendors, universities, and research institutes in the field of mobile communications.
26.	5GMF	The objectives of the Japanese Fifth Generation Mobile Communications Promotion Forum (5GMF) are to conduct research & development concerning 5G Mobile Communications Systems and research standardization thereof, liaison with related organizations, and promoting education and awareness about 5G Mobile Communications Systems.
27.	5G Med	5GMed will test use cases for connected and automated mobility (CAM), including road and rail, on the basis of the same 5G network infrastructure along the Figueras-Perpignan cross-border corridor.
28.	5G Blueprint	5G-Blueprint will design and validate a technical architecture, business model and governance model for uninterrupted cross-border teleoperated transport for roads and maritime based on 5G connectivity between the ports of Antwerp (Belgium) and Vlissingen (Netherlands).
28.	5G IANA	5G-IANA aims at providing an open 5G experimentation platform, on top of which third party experimenters (i.e., SMEs) in the Automotive-related 5G-PPP vertical will have the opportunity to develop, deploy and test their services.
29.	COREnect	European industry and R&D leaders from both the microelectronics and telecommunications sectors will jointly develop a high-level strategic roadmap of core technologies for future connectivity systems and components, targeting the next generation telecommunications networks and services.

30.	5GMETA	5GMETA's main objective is to create a flexible telematics platform for pipelining car captured and generated data to traditional and new automotive industry players while ensuring data privacy, security, interoperability and ownership.
31.	5G-LOGINNOV	5G-LOGINNOV main aim is to design and innovative framework addressing integration and validation of CAD/CAM technologies related to the industry 4.0 and ports domains by creating new opportunities for LOGistics value chain INNOVation.
32.	5G-VICTORI	5G-VICTORI will conduct large scale trials for advanced vertical use case verification focusing on Transportation, Energy, Media and Factories of the Future and cross-vertical use cases.

2.4.6.2. Joint Communication and Dissemination Activities with 5GCroCo and 5G-CARMEN Projects

5G-MOBIX, 5GCroCo and 5G-CARMEN are the three automotive projects selected for funding in the 5G-PPP ICT-18-2018 Call. The **5G Infrastructure Public Private Partnership** *(5G PPP)* is a joint initiative between the **European Commission** and **European ICT industry** with the aim to deliver solutions, architectures, technologies and standards for the next generation communication infrastructures. 5G-PPP also coordinates joint opportunities for 5G projects dissemination and liaison, e.g., joint exhibition stands, joint workshops. The aforementioned projects of the 5G-PPP Phase 3 run for different durations with the main focus on implementing and testing advanced cross border 5G infrastructures in Europe. The European Commission has assigned to 5G-MOBIX the responsibility of the coordination of joint communication and dissemination activities among the three projects.

For example, common communication and dissemination activities of the three cross border projects *(5G-MOBIX, 5GCroCo and 5G-CARMEN)* include joint participation in external conferences and trade exhibitions. Particularly, **5G-MOBIX** has already performed joint dissemination activities along with **5G-CARMEN** and **5GCroCo** by participating with joint booth during the past conferences of **EUCAD 2019** (*Brussels, 2-3 April 2019) and* **EUCNC** *(Valencia, 18-21 June 2019).* Other highlights of these common activities are, among others, the organization of a joint booth at the **ITS World Congress 2021 in Hamburg**, a joint workshop at the **virtual EUCNC 2021** conference, a joint webinar on CAM deployment challenges in December 2021, a joint workshop on deployment studies in February 2022 and more opportunities of joint dissemination of namely the deployment studies, but also final results of the three projects, are being scheduled in June 2022, e.g. a joint workshop proposal has been submitted for EuCNC 2022 in Grenoble, another webinar/ online workshop.

3. ROADMAP AND ACTION PLAN

Chapter 3 serves as a roadmap, mainly addressed to 5G-MOBIX partners, which defines the dissemination stages in terms of time within the project's lifecycle and the activities included per each. It also catalogues the targeted conferences, events and journals to be consulted by partners when needed. However, the core part of this chapter is the listed planned dissemination activities (*action plan)* clustered into **5 categories a)** Participation in Conferences & Events; **b)** Organization of CBC/TC Main Demo Events; **c)** Organization of short demo events (*within conferences*); **d)** Publications; and **e)** Webinars.

3.1. The Roadmap

The dissemination activities are divided into three stages within the frame of the 5G-MOBIX lifecycle and they are related to the project's progress and results. The stages are:

- **First Stage** (M1-M12): Raise Awareness & Inform about the project
- **Second Stage** (M13-M24): Disseminate initial project's Results & Developments
- **Third Stage** (M25-M45): Disseminate the project's Results to Key Audiences

Within each stage, the main activities to be made are sketched and the appropriate channels are suggested. The dissemination stages combined with the targeted conferences, journals and technical magazines prepare the ground for individual planning per project partner and the consortium in total.

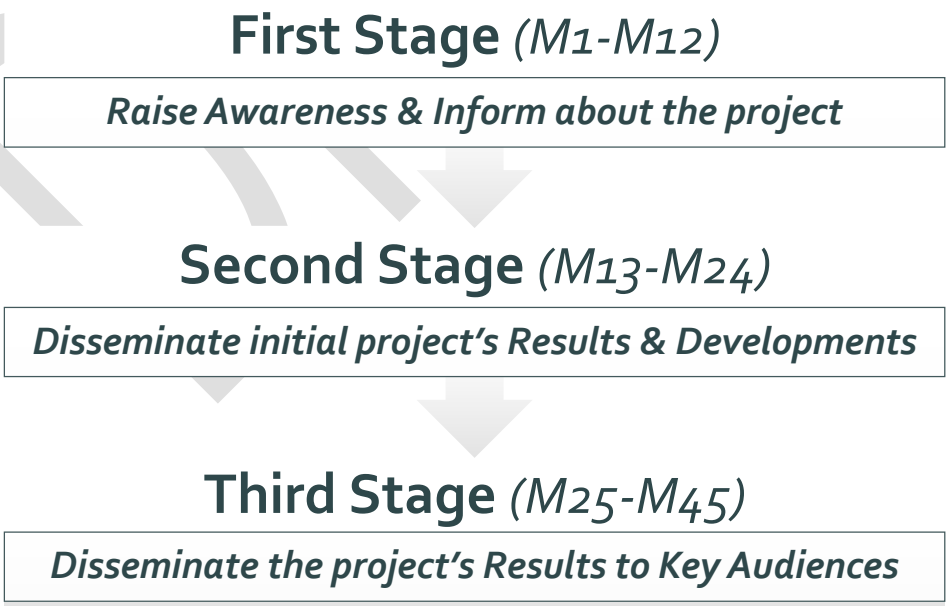

Figure 4: Depiction of 5G-MOBIX Dissemination Stages

3.1.1. Stages of the 5G-MOBIX Dissemination Activities

Table 8: 5G-MOBIX Dissemination Activities Stages

Stages	Description	Activities	Channels
First stage *(M1-M12)*	In the initial phase of the project, more emphasis will be given to the communication activities. The dissemination activities will be more intense toward the end of this phase when the initial project's results will be available. Dissemination activities will focus on **raising awareness** and **providing information** to relevant stakeholders about the project's concept and expected impact and the initial project's results	• Organisation of two webinars • Publication of scientific and technical articles • Participation in conferences, exhibitions and workshops • Identification of related projects, organisations and stakeholder communities	Scientific and technical articles, webinars, presentations
Second stage *(M13-M24)*	In this phase the activities will aim to disseminate the **initial project's results** and **developments** available.	• Organisation of four webinars • Organisation of workshops and demonstration events in cross border corridors and trial sites • Publication of peer-reviewed papers in journals and conferences • Participation in conferences and other events • Liaison activities with related projects, organisations and stakeholder communities	Webinars, workshops, demonstration events, scientific publications, articles, presentations, liaison activities
Third stage *(M25-M45)*	In the final phase of the project, a major effort will be made in effectively **disseminating the project's results** to the **key audiences** to ensure the fostering of future sustainability.	• Organisation of eight webinars • Organisation of workshops and demonstration events in cross border corridors and trial sites	Final event, webinars, workshops, demonstration events, scientific

		• Organisation of the final event • Publication of peer-reviewed papers in journals and conferences • Participation in conferences and other events • Liaison activities with related projects, organisations and stakeholder communities	publications, articles, presentations, liaison activities

3.1.2. Targeted Conferences, Events & Journals

The targeted conferences, journals and technical magazines where the consortium will focus its efforts towards the effective dissemination of 5G-MOBIX results are listed at the sub-chapters that follow. The selection was based on the individual plans collected by different partners and on opportunities available on conferences and journals more prominent in the wider field of 5G for CCAM. It should be stressed that any other opportunity identified by the consortium during the course of the project will be seized even though it is not included in **Table 9, Table 10 and Table 11** of this document.

3.1.2.1. Targeted Conferences

Table 9: Targeted Conferences

No.	Name of the event *(which event)*	Date *(when)*	Place *(Where)*	URL
1.	Digital Transport Days 2019	October 7-9, 2019	Helsinki, Finland	https://www.digitaltransport.eu/2019
2.	Road Safety and Simulation International Conference (RSS)	October 14-17, 2019	Iowa City, Iowa, USA	https://rss2019.org
3.	Autonomy (Paris)	October 16-17, 2019	Paris, France	https://www.autonomy.paris/en/
4.	ITS World Congress	October 21-25, 2019	Singapore	https://itsworldcongress2019.com/

5.	IEEE CNSM 15th International Conference on Network and Service Management	October 21-25, 2019	Halifax, Canada	http://www.cnsm-conf.org/2019/
6.	ACM MOBICOM International Conference on Mobile Computing and Networking	October 21-25, 2019	Los Cabos, Mexico	https://sigmobile.org/mobicom/2019/
7.	Workshop on 5G Technologies for Tactical and First Responder Networks	October 23, 2019	Laurel, Maryland, USA	https://futurenetworks.ieee.org/conferences/workshop-on-tactical-and-first-responder-networks/
8.	IEEE Intelligent Transportation Systems Conference (ITSC)	October 27-30, 2019	Auckland, New Zealand	https://www.itsc2019.org/
9.	IEEE CSCN – Conference on Standards for Communications and Networking	October 28-30, 2019	Granada, Spain	https://cscn2019.ieee-cscn.org/
10.	IEEE GLOBECOM	December 9-13, 2019	Waikoloa, HI, USA	https://globecom2019.ieee-globecom.org/
11.	Transportation Research Board (TRB) Annual Meeting	January 12-16, 2020	Washington, USA	http://www.trb.org/AnnualMeeting/AnnualMeeting.aspx
12.	Global IEEE 5G-IoT Summit	February 2-3, 2020	Kuwait	http://moodle.kcst.edu.kw/5gsummit/
13.	MWC Barcelona 2020	February 24-27, 2020	Barcelona, Spain	https://www.mwcbarcelona.com/
14.	TRA 2020	April 27-30, 2020	Helsinki, Finland	https://traconference.eu/
15.	European ITS Congress	May 18-20, 2020	Lisbon, Portugal	https://itseuropeancongress.com/
16.	EUCNC 2020	June 15-18, 2020	Dubrovnik, Croatia	https://www.eucnc.eu/announcement-eucnc-2020/

17.	FISITA World Automotive Congress	September 14-18, 2020	Prague, Czech Republic	https://www.fisita.com/fisita2020
18.	ITS World Congress 2020	October 4-8, 2020	Los Angeles, USA	https://www.itsworldcongress2020.com/
19.	MWC Barcelona 2021	February 2021	Barcelona, Spain	https://www.mwcbarcelona.com/
20.	3rd European Conference on Connected and Automated Driving – EUCAD 2021	April 20 – 22, 2021	Virtual	https://eucad2021-conference.eu/
21.	IEEE 93rd Vehicular Technology Conference (VTC 2021)	April 25 – 28, 2021	Helsinki, Finland (virtual)	https://events.vtsociety.org/vtc2021-spring/
22.	ETSI IoT Week	26-30 April, 2021	Virtual	https://www.etsi.org/events/1801-etsi-iot-week-2021
23.	IEEE INFOCOM 2021	May 10-13, 2021	Virtual	https://infocom2021.ieee-infocom.org/
24.	IEEE 5G for CAM	May 11-12, 2021	Brussels, Belgium (virtual)	http://5gsummit.org/CAM/index.html
25.	EUCNC 2021	8-11 June 2021	Porto, Portugal (virtual)	https://www.eucnc.eu
26.	IEEE International Conference on Communications (ICC 2021)	14-23 June 2021	Montreal, Canada (virtual)	https://icc2021.ieee-icc.org/
27.	IEEE International Mediterranean Conference on Communications and Networking (IEEE MeditCom 2021)	5-8 July 2021	Athens, Greece	https://meditcom2021.ieee-meditcom.org/
28.	IEEE Intelligent Vehicles Symposium (IV21)	11-15 July, 2021	Nagoya, Japan	https://2021.ieee-iv.org/

29.	Global IoT Summit (GIoTS2021)	31 Aug – 03 Sep, 2021	Dublin, Ireland	https://globaliotsummit.org/
30.	IEEE Intelligent Transportation Systems Conference (ITSC 2021)	19-22 September 2021	Indianapolis, USA	https://www.ieee-itss.org/itsc
31.	ITS World Congress 2021	11-15 October, 2021	Hamburg, Germany	https://www.its2021.hamburg/index.php?id=itshamburg
32.	IEEE CCNC 2022	9 January 2022	Virtual	https://ccnc2022.ieee-ccnc.org/
33.	SUMMITS 2022	09 – 10 March 2022	Ankara, Turkey	https://www.auszirvesi.org/en/home-en/
34.	ScaleUp 360° Intelligent Telematics Europe	30 -31 March 2022	Online	https://www.scale-up-360.com/en/intelligent-telematics#/
35.	IEEE CSCWD 2022	04 – 06 May 2022	Hangzhou, China	https://easychair.org/cfp/CSCWD2022
36.	IEEE International Conference on Communications (ICC 2022)	16 – 20 May, 2022	Seoul, Korea (hybrid)	https://icc2022.ieee-icc.org/
37.	IEEE 5G for CAM	May 2022	TBD	http://5gsummit.org/CAM/index.html
38.	ITS European Congress	30 May – 01 June 2022	Toulouse, France	https://itseuropeancongress.com/
39.	EUCNC 2022	07-10 June 2022	Grenoble, France	https://www.eucnc.eu/
40.	VTC 2022 Spring	19-22 June 2022	Helsinki, Finland (virtual)	https://events.vtsociety.org/vtc2022-spring/
41.	IoTWeek & Global IoT Summit	2- 23 June 2022	Dublin, Ireland	https://globaliotsummit.org/

42.	MWC Shanghai 2022	29 June – 1 July 2022	Shanghai, China	https://www.mwcshanghai.com/
43.	ITS World Congress 2022	18-22 September 2022	Los Angeles, USA	https://itsworldcongress.com/
44.	IEEE Future Networks World Forum 2022	12- 14 October 2022	Montreal, Canada	https://fnwf.ieee.org/
45.	9th Transport Research Arena - TRA 2022	14 – 17 November 2022	Lisbon, Portugal	https://traconference.eu/

3.1.2.2. Targeted Scientific Journals

Table 10: Targeted Journals (peer-reviewed scientific journals)

Topic	Journal	URL
Intelligent Transportation Systems	IEEE Transactions on Intelligent Transportation Systems journal	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6979
	IET Intelligent Transport Systems Journal	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4149681
	Journal of Intelligent Transportation Systems: Technology, Planning, and Operations	https://www.tandfonline.com/loi/gits20
	International Journal of Vehicular Technology	https://www.hindawi.com/journals/ijvt/
	International Journal of Intelligent Transportation Systems Research	https://www.springer.com/engineering/electronics/journal/13177
	Journal of Advanced Transportation	https://www.hindawi.com/journals/jat/

	Frontiers in Future Transportation	https://www.frontiersin.org/journals/future-transportation#
Communication, Cyber-security, Computing and IoT Technologies	IEEE Communications Magazine	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=35
	IEEE Transaction on Mobile Computing	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=7755
	IEEE Transactions on Wireless Communications	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=7693
	IET Communications	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4105970
	IEEE Transactions on Industrial Informatics	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=9424
	Elsevier Journal of Network and Computer Applications	https://www.journals.elsevier.com/journal-of-network-and-computer-applications
	IEEE Transactions on Big Data	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=6687317
	Transactions on Emerging Telecommunications Technologies (ETT), Wiley	https://onlinelibrary.wiley.com/journal/21613915
	Software: Practice and Experience, Wiley	https://onlinelibrary.wiley.com/journal/1097024x
Automation	International Journal of Automation and Control	https://www.inderscience.com/jhome.php?jcode=ijaac
	IEEE Transactions on Automation Science and Engineering	https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=8856

	International Journal of Vehicle Autonomous Systems	https://www.inderscience.com/jhome.php?jcode=ijvas

3.1.2.3. Targeted Technical Magazines

Table 11: Targeted Technical Magazines

No.	Technical Magazine	URL
1.	**Thinking Highways**	https://www.h3bconnected.com/thinkinghighways/
2.	**Hanser automotive**	https://www.hanser-automotive.de/
3.	**Intelligent Transport**	https://www.intelligenttransport.com/
4.	**Smart Highways**	http://smarthighways.net/
5.	**Highways**	https://www.highwaysmagazine.co.uk/
6.	**Transport Network**	https://www.transport-network.co.uk/
7.	**Thinking Highways**	https://www.h3bconnected.com/thinkinghighways/
8.	**ITS Hub**	https://e-itshub.com/

3.2. Action Plan

The action plan outlines the activities that the consortium foresees to make for the period **January 2022** to the **End of the Project**. It was derived from the individual dissemination plans provided by 5G-MOBIX partners and consolidated by Task 7.2 leader *(ICCS)*.

The purpose of this action plan is to create an overall catalogue with activities as anticipated by 5G-MOBIX partners individually and/or jointly and serve as a reference point in future. In addition, to clarify the involved

partner/s per activity as well as the **contribution** needed, **estimate the resources** required for its implementation and **formulate a timeline** when and where it will take place.

3.2.1. Methodology

The methodology that was followed for compiling this action plan was based on the constructive and close collaboration of Task 7.2 leader with all partners. Its initial version was created by ICCS and it was circulated via email communication to the consortium for reviewing and commenting. It was finalized after incorporating all comments/suggestions received.

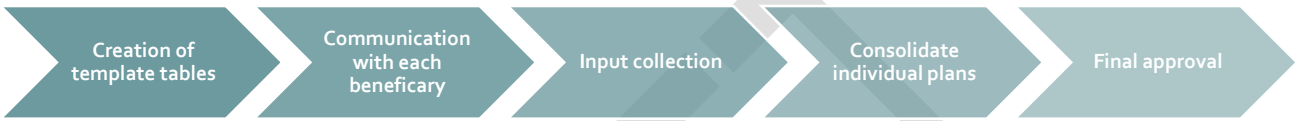

Figure 5: Methodology followed for the creation of Action Plan (depiction)

In brief, during the **first phase** of the action plan creation, ICCS created pro-forma template tables in order to assist partners to create their individual plans. In the **second phase**, each beneficiary of the project was contacted via email and asked for contribution in order to form the action plan. The **third phase** included the collection of the individual dissemination plans and the **fourth one** the consolidation of the individual plans. The **last phase** *(fifth)* concluded the activities for the finalization of the action plan by making all the needed corrections and final approval from the consortium

3.2.2. Participation in Conferences & Events

The participation of 5G-MOBIX partners in external conferences and events for disseminating the project's progress and its results include a wide range of scheduled events *(related to the project's topic)* that will take place across Europe and beyond within the period **January 2022 to End of the project (Fall 2022).** In total, opportunities for disseminating the 5G-MOBIX have been identified in **22 events** within the aforementioned period and partners have expressed their disposal to participate and communicate project's results with **39 various activities**.

Table 12: Plan for Participation in Conferences & Events

Participation in events (Conferences, Trade shows, Workshops) Planned activities *Period: January 2022 – End of the project*					
No.	**Name of the event** *(which event)*	**Date** *(when)*	**Place** *(where)*	**What to present**	**Partners involved**
01.	ATEC ITS France	January 2022	TBD	FR TS activities	VEDECOM
02.	IEEE Consumer Communications and Networking Conference (IEEE CCNC 2022)	January 2022	Online	Paper Presentation on Balancing Latency and Accuracy on Deep Video Analytic at the Edge	AALTO
03.	SUMMITS'22 "Shaping the Future of Transportation"	March 2022	Ankara, Turkey	Presentation	EC PO
04.	ScaleUp 360° Intelligent Telematics Europe	March 2022	Online	Presentation on Platooning and Autonomous Truck Routing user stories	FORD
05.	Go Mobility	April 2022	Basque Country, Spain	Speech featuring 5G-MOBIX activities	AEVAC
06.	HFES2022 – Conference of the European Chapter of the Human factors and Ergonomics Society	April 2022	Liverpool, UK	Methods for acceptability evaluation of CCAMs	CCG

Participation in events (Conferences, Trade shows, Workshops) Planned activities *Period: January 2022 – End of the project*					
No.	**Name of the event** *(which event)*	**Date** *(when)*	**Place** *(where)*	**What to present**	**Partners involved**
07.	2022 IEEE 25th International Conference on Computer Supported Cooperative Work in Design (IEEE CSCWD 2022)	May 2022	Hangzhou, China	3 Paper Presentations	DUT
08.	IWPC - The International Wireless Industry Consortium	May 2022	Online	Keynote Speech – updates on GR-TR CBC	FORD
09.	IEEE International Conference on Communications (ICC 2022)	May 2022	Seoul, Korea (hybrid)	Paper Presentation	GT-ARC, TUB
10.	ITS European Congress	May – June 2022	Toulouse, France	Presentation FR TS activities	VEDECOM
				Paper Presentation	A-To-Be, IT
11.	EuCNC 2022	June 2022	Grenoble, France	Presentation and demonstration of 5G-MOBIX results	VEDECOM
				TBD	WINGS
				Exhibition booth	ICCS, ERTICO
12.	VTC Spring 2022	June 2022	Helsinki (Online)	Workshop Presentation	VTT, AALTO

Participation in events (Conferences, Trade shows, Workshops) Planned activities *Period: January 2022 – End of the project*					
No.	**Name of the event** *(which event)*	**Date** *(when)*	**Place** *(where)*	**What to present**	**Partners involved**
13.	Global Mobility Hub	June 2022	Madrid, Spain	5G-MOBIX round table	AEVAC, TBD
14.	IoTWeek & Global IoT Summit	June 2022	Dublin, Ireland	3 Special Sessions	UL, EC PO
				Presentation	ERTICO
15.	IEEE Future Networks World Forum 2022	October 2022	Montreal, Canada	3 Special Session	UL, EC PO
16.	TRA 2022 – Transforming Mobility	November 2022	Lisbon, Portugal	5G-Mobix ES-PT CBC results	CCG
				Paper Presentation	A-TO-BE, IT
				Paper Presentation	A-TO-BE
				TBD	IMT
17.	5G-MOMENTUM event	TBD	Helsinki, Finland	CoCa demo, assessment results	VTT
18.	5G-SAFEplus (national Finnish project)	TBD	Finland (Tampere, Oulu or Sodankylä)	CoCa demo	VTT
19. **20.**	3GPP Plenary Meeting	4 times a year	Different locations around the world	TDocs / email contributions	FRAUNHOFER
21. **22.**	5GAA Meetings	4 events in total (Appr. 2 times a year)	2x Europe, 2x Asia/US	TBD	FRAUNHOFER

3.2.3. CBC/Trial Sites Main Demo Events

5G-MOBIX consortium will organise demonstration events, **one per each corridor and urban test site** to present and discuss trials results and achievements, with the aim to multiply the impact of the project results towards the different key audiences and encourage stakeholders to share their vision and common understanding of the project's concept and approach. Trial site leaders provided information related to the organization of their respective demo events, by filling in a form (Annex 6) that was prepared by WP7 partners. This input was essential to ensure a timely and efficient demo preparation from a communication and dissemination perspective, but also for maximum stakeholder engagement.

Table 13: Plan for CBC/TC Main Demo Events

<table>
<tr><th>No.</th><th>Trial site / CBC</th><th>Partners involved</th></tr>
<tr><td>1.</td><td>NL Trial Site</td><td>KPN, TNO, SIEMENS</td></tr>
<tr><td colspan="3">Date: 05 April 2022
Location: Automotive Campus Helmond NL
Type of Event: 5G-Fieldlab event organised by KPN (physical)
Use cases/ user stories to be demonstrated: Live demo of collision avoidance at the venue
Event Structure: Presentations of main use case topics in NL Trials
Target Audience/Invited Stakeholders:
• Public Authorities & Policy Makers
• Automotive Industry Stakeholders
• MNOs
• Road Operators
• Service Providers
• Press
E.g.: N/A

SME involvement: N/A</td></tr>
<tr><td>2.</td><td>FR Trial Site</td><td>VEDECOM, AKKA, CATAPULT, ORANGE/BOUYGUES, UTAC CERAM</td></tr>
</table>

Date: 21 April 2022
Location: MobiLab, Satory, Versailles
Type of Event: Stand-alone event (physical)
Use cases/ user stories to be demonstrated: Demonstration of the use case "Infrastructure-assisted advanced driving" using one connected automated vehicle, 1 connected vehicle, and one basic vehicles. Audience will experience the use case in the CAV (which changes its lane based on the guidance received from the infrastructure, if a collision risk is detected) as well as at the control centre.
Event Structure:

1. Session "5G-MOBIX": Introduction of 5G-MOBIX, FR TS activities/results,
2. Session "Related 5G projects (5GMed, 5G-META, 5G-Openroad)
3. Session "Vision of Industries on 5G and CAM

Target Audience/Invited Stakeholders:

- Public Authorities & Policy Makers
- Automotive Industry Stakeholders
- MNOs
- Road Operators
- Service Providers
- RTOs
- Press

E.g.: Stellantis, Renault, VALEO, Continental, TDF

SME Involvement: AKKA: French SME, member of 5G-MOBIX and 5G-META projects, Yogoko- French connectivity solutions provider

3.	**FI Trial Site**	AALTO, SENSIBLE4

Date: 28 April 2022
Location: Espoo, Finland
Type of Event: Stand-alone event (physical)
Use cases/ user stories to be demonstrated: The remote control or driving of an SAE L4 automated vehicle presents stringent requirements on connection between the vehicle and the Remote Operations Centre (ROC) where remote human operator is located. Furthermore, the whole control loop needs to be kept tight. The demo showcases 5G service continuity solutions for remote driving in a 5G multi-PLMN environment. These solutions ensure availability of adequate vehicle-to-network connectivity for continuous transmission of the data traffic streams from the vehicle to the ROC, particularly LIDAR and HD video, and timely reception of command messages from ROC to the vehicle. The invited participants will experience the demo from two perspectives, firstly from a follower vehicle behind the automated

vehicle and secondly from the perspective of the remote operator at the ROC.
Event Structure: The public demo will be supported by slideshows on screens that provide an introductory storyboard of the demo and presents results/KPIs of interest in showcasing the impacts of the considered solutions for service continuity.
Target Audience/Invited Stakeholders:

- Public Authorities & Policy Makers
- Automotive Industry Stakeholders
- Other: Device vendors, local public funding body, municipalities

E.g.: TRAFICOMM, Forum Virium, City of Espoo, Business Finland, Goodmill Systems

SME Involvement: Goodmill Systems is a Finnish SME that provides a 5G multi-SIM OBU for the FI-TS and leverages these trials to further showcase the capabilities of their product for critical CAM use cases.

4.	**DE Trial Site**	All DE partners

Date: May/June 2022 (tbd)
Location: Online
Type of Event: Webinar
Use cases/ user stories to be demonstrated: Recorded demo video footage from September demo event 2021 and CBC trials event (happening right now, March 2022) will be shown. The September demo video includes both DE TS use cases performed in Berlin; the CBC demo video focuses on the extended sensors use case. In addition to the videos the German trial site presents the outcome of their trials and results obtained. This will be followed by a Q&A session for the audience.
Event Structure: This will be a stand-alone event (webinar), focused on DE TS, no further programme is planned.
Target Audience/Invited Stakeholders:

- Public Authorities & Policy Makers
- Automotive Industry Stakeholders
- MNOs
- Service Providers
- Press

E.g.: Berlin Senate, Valeo, IAV, Deutsche Telekom, Cohda Wireless, MobiledgeX, local press in Berlin

SME Involvement: Cohda Wireless could be interested into the usage of RSU deployment and integration into the 5G V2X architecture.

5.	**KR Trial site**	All KR consortium

Date: 26 November 2020
Location: Workshop venue:Somerset Central Bundang Hotel in Seoul, South Korea (Demonstration site: highway test track in Yeoju, South Korea)
Type of Event: Stand-alone event (physical)
Use cases/ user stories to be demonstrated: On Nov. 26, 2020, the final field trial for Tethering via Vehicle (User Story 5.2) will be conducted on a highway test track in Yeoju, Korea, using a mmWave OBU (vehicle UE) installed on a demo bus and five gNB DUs deployed along the trackside. The field trial will mainly show the results that a data rate of 1.15 Gbps between the gNBs and the vehicle UE is achievable for 90% of the time during the trial and a Wi-Fi data rate of over 400 Mbps is attainable by a smartphone.
Event Structure: The workshop for the final field trial of Tethering via Vehicle (User Story 5.2) will take place on Nov. 26, 2020, and it will be organized as 1) a presentation on a brief overview of the field trial including background and key enablers to be demonstrated, 2) visitors move to the trial site (Yeoju highway test track), 3) field trial demonstrated to the visitors, 4) visitors move back to the venue, 5) a presentation for summary and Q&A session.
Target Audience/Invited Stakeholders:

- Public Authorities & Policy Makers
- Automotive Industry Stakeholders
- MNOs
- Road Operators
- Service Providers
- RTOs

E.g.: Korea Expressway Corporation, Hanwha systems, Amazon, Korea University

SME Involvement: SMEs of network equipment development may be involved. What may stand out to them is the Implementation of the millimetre-wave 5G NR communication system and its application on wireless connectivity provision to moving vehicles.

6.	**CN Trial site**	All the CN partners, ZTE, China mobile

N/A

7.	**GR-TR CBC**	All GR-TR partners, FORD, WINGS

Date: 10 May 2022
Location: Kipoi (GR) & Ipsala (TR)
Type of Event: Stand-alone event (physical)
Use cases/ user stories to be demonstrated:
UC Demo #1: (Platooning with) See What I See
The 'See What I see' functionality for trucks driving in platoon formation will be demonstrated, while also testing the potential Local break out (LBO) scenario.
UC Demo #2: Assisted Border Crossing
Remote vehicle inspection and predictive risk assessment for all trucks coming into the customs area of the GR-TR borders will be demonstrated, using the WINGS application and testing 2 scenarios i.e., VRU and False License Plate.
UC Demo #3: Platooning
The Platooning user story will be demonstrated in the TR side.
UC Demo #4: Truck Routing
Autonomous routing of the truck inside the customs area will be demonstrated.
Event Structure: The day will start with a Welcome and Introduction session for all stakeholders attending. Then the See what I see & Assisted border crossing demonstrations will take place in the Greek side. Participants will then cross the borders to watch the Platooning & Autonomous Truck routing demonstrations on the Turkish side. The demo event will conclude with a short Q&A session.
Target Audience/Invited Stakeholders:

- Public Authorities & Policy Makers
- Automotive Industry Stakeholders
- MNOs
- Road Operators
- Service Providers
- RTOs
- Press

E.g.: Turkcell, Tubitak, Ford, Ericsson TR, BTK Information and Communication Technologies Authority, COSMOTE, WINGS, ICCS, Local municipality representatives etc.

SME Involvement: N/A

8.	**ES-PT CBC**	26-27 October 2021 (Porto- Vigo)	All ES-PT partners
		August/September 2022 (Final Event)	All ES-PT partners

Final Event Date: August/September 2022 (tbd)
Location: Spain - Vigo
Type of Event: Stand-alone event (physical)
Use cases/ user stories to be demonstrated: Remote Driving and Vulnerable Road User- In the Tui-Valença Bridge. The operation of the use cases will be demonstrated. The transfer of attendees to the use case presentation area will be facilitated. The equipment involved and how it works will be demonstrated. Participants will be able to ride in the prototype vehicle.
Event Structure: Presentations of the activities and work carried out at the event. Transfer to the demo area and presentations of other use cases on CTAG tracks.
Target Audience/Invited Stakeholders:

- Public Authorities & Policy Makers
- MNOs
- Road Operators
- Service Providers
- Press

E.g.: DGT, Fomento, Infraestructuras de Portugal, Concello de Tui, Cámara de Valença

SME Involvement: N/A

3.2.4. Organization of Short Demo Events (within conferences/public events)

Besides the **Main Demo Events,** the project partners plan to organize **short demo events** within major conferences and other public events where part of the functionality will be showcased. Until now 4 short demonstrations have taken place at various events (Annex 5 - Exhibition Booths, Short Demos and Workshops) and **2 more such activities** are scheduled until the end of the project.

Table 14: Plan for participation in conferences/events with Demo presentations

Organization of 5GMOBIX demo/event (trial sites & CBC) **Planned activities** *Period: January 2022 – End of the project*				
No.	**Trial site / CBC** *(which trial site / CBC)*	**Date** *(when)*	**Partners involved**	**Description of the event** *(type, aim)*
1.	ES TS	June 2022	AEVAC, CTAG	Demonstration during the 'Global Mobility Hub' event in Madrid

2.	TR TS	June 2022	FORD	Vehicle and video demonstrations during EuCNC conference in Grenoble

3.2.5. Publications

Publications are an essential mean of raising awareness of the project's output for uptake, namely to the scientific and professional community. 5G-MOBIX scientific papers and technical articles will be submitted for publication in conference proceedings, scientific peer-reviewed journals, technical magazines as well as trade and magazines in Europe and beyond within the period **January 2022 to End of the project (Fall 2022).** The plan presented in **Table 15**constitutes the consolidation of individual dissemination plans as provided by 5G-MOBIX partners. In total, opportunities for disseminating the 5G-MOBIX via publications have been identified in **10 conferences, journals, magazines** and so on within the aforementioned time and partners have expressed via their individual plans to elaborate **13 topics** as publications. Analysing this data, more information could be extracted and a breakdown of publication types follow:

- **9** conference proceedings;
- **4** scientific peer-reviewed journals;

Table 15: Plan for Publications & Topics

Planned Publications *Period: January 2022 – End of the project*				
No.	**Targeted Journals / Magazines / Conferences**	**Place**	**Topic planned to be elaborated**	**Partners to be involved** *(co-authors)*
1.	Frontiers in Future Transportation	Journal	Design and Evaluation of Remote Driving Architecture on 4G and 5G Mobile Networks	TUE, SISSBV, AIIM, KPN
2.	Sensors (Special Issue Internet of Things, Big Data and Smart Systems)	Journal	A Control Method with Reinforcement Learning for Urban Un-Signalized Intersection in Hybrid Traffic Environment	DUT
3.	Software: Practice and Experience	Journal	Automatic Map Update Using Dashcam Videos	AALTO

Planned Publications *Period: January 2022 – End of the project*				
No.	**Targeted Journals / Magazines / Conferences**	**Place**	**Topic planned to be elaborated**	**Partners to be involved** *(co-authors)*
4.	Frontiers In Future Transportation	Journal	CCAM Service Continuity in a Cross-Border MEC Federation Scenario	IT, CTAG
5.	IEEE Consumer Communications and Networking Conference (IEEE CCNC 2022)	Online	Balancing Latency and Accuracy on Deep Video Analytics at the Edge	AALTO
6.	ITS European Congress	Hamburg, Germany	Portuguese 5G Connected Vehicle and Infrastructure in the 5G-MOBIX project	A-TO-BE, IT
7.	2022 IEEE 25th International Conference on Computer Supported Cooperative Work in Design	Hangzhou, China	An Extended Adaptive Large Neighbourhood Search for Vehicles' Task Offloading in Platooning	DUT
			A Leader-Follower Model with Communication Delay for Platooning Control in Highway Scenario	
			A cooperative control algorithm for real-time on-ramp merging of connected and automated vehicles	
8.	IEEE International Conference on Communications (ICC 2022)	Seoul, Korea (hybrid)	Competitive Learning for Unsupervised Anomaly Detection in Intelligent Transportation Systems	GT-ARC, TUB

Planned Publications *Period: January 2022 – End of the project*				
No.	**Targeted Journals / Magazines / Conferences**	**Place**	**Topic planned to be elaborated**	**Partners to be involved** *(co-authors)*
9.	9th Transport Research Arena - TRA 2022	Lisbon, Portugal	Cloud-based HD Mapping supporting Autonomous Driving using cellular 5G in cross-border scenarios	A-TO-BE
			5G Connected Vehicle and Roadside Infrastructure for Advanced Driving Maneuvers in a Cross-Border Scenario	IT, A-TO-BE
10.	IEEE Intelligent Vehicles Symposium 2022	Aachen, Germany	Cloud Assisted Connected and Automated Mobility System Architecture Design and Experimental Verification: The 5G-MOBIX Autonomous Truck Routing Use Case	FORD, TUB

3.2.6. Webinars

Webinars addressing different topics and categories of stakeholders will be organised at regular intervals to provide a comprehensive view on particular results of the project. Task 7.2 leader drafted the plan (Table 16) regarding topics, speakers, audience and circulated to project partners for approval and/or commenting where needed. It should be mentioned that this plan will be flexible regarding topics and timeline. Moreover, the topics could either be replaced or postponed during the course of the project upon its needs while more webinars might be added (if necessary). During the first year of the project, 1 webinar was held, 3 more were held during the second year of the project, while for the last year of the project 2 webinars have taken place so far.

Table 16: Webinars' plan (January 2022 – End of Project 2022)

No. (series)	Date	Topic	Speakers	Who to invite
7th webinar	May 2022	EU policies and regulations	WP6 partners and other similar projects that we liaise	Policy makers, *(proposed by partners)*, CroCo, CARMEN and other similar projects
8th webinar	May 2022	Presentation of NL Trial Site results	TNO, KPN, Tue, SISBV	CroCo, CARMEN and other similar projects, communication with partners to propose (local) contacts
9th webinar	May/June 2022	Presentation of FR Trial Site results	VEDECOM, AKKA, TBD	CroCo, CARMEN and other similar projects, communication with partners to propose (local) contacts
10th webinar	May/June 2022	Presentation of FI Trial Site results	Aalto, Sensible 4	CroCo, CARMEN and other similar projects, communication with partners to propose (local) contacts
11th webinar	May/June 2022	DE trial site demo and presentation of results	TUB, GT-ARC, VICOM	Stakeholders and CroCo, CARMEN or other similar projects, communication with partners to propose (local) contacts

No. (series)	Date	Topic	Speakers	Who to invite
12th webinar	May/June 2022	Presentation of KR and CN Trial Site Results	KR Consortium, CN partners	CroCo, CARMEN and other similar projects, communication with partners to propose (local) contacts
13th webinar	June 2022	Presentation of GR-TR CBC/TS results	GR-TR partners, FORD, WINGS, ERICSSON GR/TR	CroCo, CARMEN and other similar projects, communication with partners to propose (local) contacts
14th webinar	July 2022	5G for CAM in Cross-border environments: 5G-MOBIX results and recommendations	WP5 partners and trial site leaders	CroCo, CARMEN and other similar projects, communication with partners to propose (local) contacts

4. PERFORMANCE MEASUREMENT OF DISSEMINATION ACTIVITIES

The actions that will be made during the project's lifecycle *(implementation)* as described within this deliverable will be monitored by WP7 leader as well as the task 7.2 leader and will be constantly discussed and evaluated amongst the consortium. The success criteria of this Dissemination Plan are focused on quantitative measurements.

4.1. Quantitative Measurements and Key Performance Indicators (KPIs)

Measurable targets for dissemination activities have been set in order to assess the plan effectiveness and whether the desired impact is achieved or if corrective actions are needed. These targets have been set on the basis of previous experience and taking into consideration the number of dissemination activities performed in other comparable projects in terms of consortium size and type of activities (FOTs), such as SHOW, AUTOPILOT, AEOLIX and L3Pilot. The following tables present the type of tools/ channels which performance will be measured and the indicators of success respectively for each year of project's implementation.

However, it should be stressed once again that implications, due to the COVID-19 restrictions, have affected the performance of those indicators. Lastly, it should be mentioned that the project has received a nine-month extension so Y3 column includes all the produced results *(performance)* by the completion of 5G-MOBIX lifecycle.

Table 17: Main Dissemination Tools & Channels - KPIs

Tool / Channel	Measured Indicators	*Indicators of Success*			
		Y1 (M1 – M12)	Y2 (M13– M24)	Y3* (M25 – M45)	Total
Webinars	Number organised/ participants per	2/50	4/50	8/50	14/50
Conferences	Presentations (including poster sessions)	≥10	≥15	≥40	65
Trade shows	Exhibition stands	≥3	≥5	≥8	≥16

Project Events	Number of workshops / participants per	≥2/70	≥3/70	≥5/70	10/70
	Number of demonstration events / participants per	n/a	3/100	5/100	8/100
	Final event / participants	n/a	n/a	1/150	1/150
Scientific publications	Papers in conference proceedings	≥3	≥15	≥40	58
	Scientific and technical articles in peer-reviewed journals	≥3	≥5	≥15	23
	Articles in trade magazines & non-scientific publications	≥1	≥2	≥7	10

* Y_3 column includes all the produced results *(performance)* by the completion of 5G-MOBIX lifecycle, including the project's extension, i.e., M25 – M45.

5. CONCLUSION

This document outlines the activities that the consortium foresees to make for disseminating the project's outputs in the form of a plan which includes the topics, methods, tools and channels that will be employed towards this goal. It is addressed to a wide audience consisted of 5G-MOBIX partners, European Commission, target groups, representatives of organizations involved into projects under similar topic and anyone else interested.

As previously mentioned, four versions have predated the current one. The action plan included within the current document describes planned activities for the period **January 2022** to **End of the Project.** The revised action plan was derived from the individual dissemination plans provided by 5G-MOBIX partners and consolidated by Task 7.2 leader *(ICCS).* It has incorporated necessary adjustments and additions to best reflect the corrective actions requested by EC experts in the latest review *(October 2021)*.

For the realistic and effective implementation of the action plan, the consortium together with the WP7 partners are in regular contact to exchange information and updates on the status of regional conference and events and to timely identify new or alternative dissemination opportunities.

Despite limitations and COVID-19 restrictions, a significant number of activities has already been organized and implemented. More than 33 journal publications, 35 technical papers, 107 presentations at events (58 of which took place virtually), 5 workshops and 14 exhibition booths, demonstrate the project's commitment in disseminating the project results. As we move towards the end of the project, significant project results are expected to be released by partners and therefore, we anticipate that additional dissemination opportunities might emerge in addition to the present plan.

Overall, the successfulness of the presented Dissemination Plan will be based on **quantitative** measurements compared with the set of KPIs that will distinguish if corrective actions will be needed or not. Concluding, the utmost objective is to ensure that the project's concept and results are effectively disseminated throughout its lifecycle.

REFERENCES

[1] D7.1 Communication strategy and plan

[2] Ioannis Sagias, European Commission, "Dissemination and Exploitation of Research and Innovation project results", pp.2-5, 2018, Available at http://ec.europa.eu/research/participants/data/ref/h2020/other/events/2018-02-22/9_dissemination-exploitation_en.pdf, (Last Access 19/02/2019).

ANNEXES

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Annex 1 – Dissemination Procedures

Description and purpose

The dissemination procedures include guidelines and set out the main steps to be followed by partners for the publication or presentation of work done within the framework of the 5G-MOBIX project. The full description of the communication/dissemination procedures for 5G-MOBIX is presented below.

Main objectives of the procedure

The basic objectives of the aforementioned procedures are to:

c) Produce high quality 5G-MOBIX publications and presentations;
d) Avoid overlaps and possible disclosure of restricted or confidential information;
e) Monitor and record the dissemination activities of the project.

Step by step procedure

1. **At least two weeks before** the performance of any dissemination activity related to the 5G-MOBIX project, **the initiator of the dissemination activity**:
   - Fills in the dissemination request form (see Annex 2, p. 65) https://redmine.iccs.gr/projects/safertec/wiki providing necessary information (type of activity, provisional title, short summary or draft of the whole paper/set of slides, if available);
   - Informs via email the Task 7.2 Leader (Sevi Christoforou, mailto:sevi.christoforou@iccs.gr) and the Dissemination Manager, ERTICO, comms@5g-mobix.com;
   - As soon as available, share the abstract/draft paper/draft poster, etc., in a dedicated folder on the project online collaboration tool (creating a corresponding folder for the related event, and informing the Task 7.2 Leader and Dissemination Manager when it is done.

2. **The Task 7.2 Leader** sends the request within 2 days to the Consortium partners for approval, modification, request for extra information/clarifications or rejection;

3. **The Consortium partners** have to reply to the Task 7.2 Leader **within 5 working days**; no response is considered as an approval;

4. **The Task 7.2 Leader** informs the initiator of the dissemination activity and the Project Coordinator about the decision.

In case of:
a) **Approval**: The initiator may proceed with the submission or realization of the planned dissemination activity;

b) **Conflict/objection**: Any Consortium member can object to the proposed dissemination activity, for example in cases of overlaps or risk of disclosure of restricted or confidential information. **The objection has to include a clear reasoning as well as a precise request for necessary modifications.**
The issue is discussed among the Coordinator, the Task 7.2 Leader and the involved partners.

5. **Within 10 working days** after the realization of the approved dissemination activity, the initiator of the dissemination activity:
   - Uploads the final paper, presentation, poster, or other presented material on the project online collaboration tool, in the dedicated folder;
   - Uploads photos from the activity, if relevant, in the same folder (in a "photos" sub-folder);
   - Completes a dissemination activity report template (see Annex 3, p. 66) and uploads it in the same folder;
   - Informs via email the Task 7.2 leader and Dissemination Manager;
   - The Task 7.2 leader adds the performed dissemination activity to the excel file "5G-MOBIX-Performed dissemination activities" recording all dissemination activities performed in the project, for progress reporting purposes, as well as publication on the website of the related presentation, poster and /or paper (if public).

NOTE:
If partners wish to present or release material already approved, such as public presentation/material, then no formal approval is required, but the Task 7.2 Leader and Dissemination Manager have to be informed.

Non-European Travel

For dissemination in conferences and events outside Europe, the EC Project Officer needs to approve the related travel on the basis of a written justification providing details on the travel purpose and dissemination opportunity.

Partners should fill-in the Non-European Travel Report Template (see Annex 4 – Non-European Travel Report Template, page 70) at least two months before the travel and send it to the project Coordinator, to request authorization from EC PO. For possible enquiry by the auditors in the future, it is recommended to keep the form and EC's response with the respective travel documents.

Acknowledgement

Publications

The following acknowledgement text should be included in all publications related to the 5G-MOBIX work:

"This work is a part of the 5G-MOBIX project. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825496. Content reflects only the authors' view and European Commission is not responsible for any use that may be made of the information it contains".

Other communication and dissemination activities

For all other communication and dissemination activities, the EC emblem should be included with the following text:

"This work is a part of the 5G-MOBIX project. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825496."

Infrastructure, equipment and major results

For infrastructure, equipment and major results, please include the EC emblem and the phrase:

"This [infrastructure] [equipment] [insert type of result] is part of the 5G-MOBIX project. This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825496."

EC emblem

For correct use of the EC emblem, please refer to the following link:

http://europa.eu/about-eu/basic-information/symbols/flag/index_en.htm

Annex 2 – Dissemination request form template

Table 18: Dissemination request form template

5GMOBIX

List of Dissemination Requests

Date of dissemination request	Type of activity	Initiator of the activity	Title of publication / presentation	Authors/partners	Title of the event/journal/book /location	Date of the event / publication date	Link to document (internal online collaboration tool)	Description / short summary	Relation to 5G-MOBIX	Approved by consortium /conflict-objection
dd/mm/yyyy	*Please choose one: conference, special session, paper presentation, workshop, demonstration, exhibition, trade fair, press/media activity, poster, video, website, …, …,*							*Up to 30 words*	*Please choose one: Simple reference, concept description, work description, key paper presenting 5G-MOBIX, internal 5G-MOBIX activity*	

Annex 3 – Dissemination activities report template

5GMOBIX

Driving forward Connected & Automated Mobility

DISSEMINATION ACTIVITIES REPORT

Work package	7	Dissemination and Exploitation	
Lead Partner			
Status	(F = Final; D = Draft; RD: revised draft)		
Version No:	0. x		
Issue date	XXXX-XX-XX	Creation date	XXXX-XX-XX
	This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825496.		

The dissemination activities report should be filled in by the leading partner of every realized dissemination activity. The purpose of this report is to provide the necessary information to the Task 7.2 Leader (sevi.christoforou@iccs.gr) for publishing the activity to the 5G-MOBIX website and reporting to the European Commission.

Report form

In case of Events (i.e. Conferences, Meetings & Other Occasions)		
Title of event / place & date of realisation:		
Type of Event:	Conference, Workshop, technical meeting etc.	
Title of presentation:		
Type of presentation:	poster presentation, paper presentation, demo presentation, oral presentation…	
Relevance to 5G-MOBIX:	Please specify: WPx work, consept description etc.	
Authors:	Name (company)	
Other activities (if any)	i.e. destribution of promotional material, bilateral discussions etc.	
Type of audience addressed (event/meeting)	Scientific community (higher education, research)	☐
	Industry	☐
	Civil society	☐
	Policy makers / Public authorities	☐
	Media	☐
	Other: please specify	
In case of an **Event**:	☐ NATIONAL: hosting country: → Number of attendees:	
	☐ INTERNATIONAL: hosting country: → addressed countries: → Number of overall attendees: → Size of audience addressed by the performed activity:	
	Liaison with relevant actors: ☐ no, ☐ yes: partners, projects, initiatives, shared session? . Any feedback received? ☐ no, ☐ yes: Please specify.	
In case of a **meeting**:	☐ LOCAL → Number of attendees: ☐ NATIONAL: hosting country: → Number of attendees: ☐ INTERNATIONAL: addressed countries: → Number of attendees: Main purpose of the meeting: / Relevance to 5G-MOBIX: Related contacts made: / Feedback received: Do you foresee further involvement of the actors you met with?	

In Case of Scientific Publication (Conference papers, journals / magazines, book chapter etc.)		
Type of publication	journal article, conference paper, book chapter etc.	
Main Author (name, organisation)		
Title of publication:		
Relevance to 5G-MOBIX:	Please specify: WPx work, consept description etc.	
Other Authors:		
In case of a journal/magazine article:	Title of journal or magazine:	
	Volume, page:	
	Editor / Publisher:	
	ISSN:	
In case of a Conference paper:	Title of proceedings	
	Editor/publisher:	
In case of a book publication:	Title of book:	
	Title of Chapter:	
	Editor / Publisher:	
	Pages:	
	ISBN:	
For all publications:	Date of publication:	
	URL (if available)	
	DOI number	
	Open access to publication?	☐ no ☐ yes: (way to get it)
	Additional info:	

Other Activities	
Type of activity:	i.e. video presentation, event organisation, website announcement, press briefings, interviews etc.
Title:	
Occasion:	Name of Event/ publication etc.
URL:	
Relevance to 5G-MOBIX:	
Partners Involved:	
Short description:	
Other Comments:	

For all dissemination activities		
Presented material *(Full paper/article/poster/ presentation, etc.)*	Attached to this form	☐
	Link to location on 5G-MOBIX online collaboration tool	
Permission to publish the material in the 5G-MOBIX website:	YES	☐
	NO	☐
Other Comments:		

Annex 4 – Non-European Travel Report Template

Driving forward Connected & Automated Mobility

REPORT ON NON-EUROPEAN TRAVEL

Please fill-in before the travel and send the form to the project coordinator (c.bresser@mail.ertico.com), so as to inform the EC. For possible enquiry by the auditors in the future it is recommended to keep the form and EC's response with the respective travel documents.

Partner's Name	
Name of traveller(s)	
E-mail of traveller(s)	
Date, place & title of event (including URL)	
Estimated costs (Flight, hotel, subsistence)	
	Justification (Please name the reason and your motivation for the travel. Describe how the 5G-MOBIX work will be supported and benefited from this travel.)

Annex 5 – List of Performed Activities

Table 19: Publication in Journals

No.	Title	Authors	Partner(s)	Journal	Status
1.	SURROGATES: Virtual OBUs to Foster 5G Vehicular Services	Universidad de Murcia - José Santa, Pedro J. Fernández, Jordi Ortiz, Ramon Sanchez-Iborra, Antonio F. Skarmeta	UMU	Electronics	Published (open access)
2.	Empowering the Internet of Vehicles with Multi-RAT 5G Network Slicing	Universidad de Murcia - Ramón Sanchez-Iborra, José Santa, Jorge Gallego-Madrid, Antonio F. Skarmeta	UMU	Sensors	Published (open access)
3.	Chameleon: Latency and resolution aware task offloading for visual-based assisted driving	Chao Zhu, Yi-Han Chiang, Abbas Mehrabi, Yu Xiao, Antti Ylä-Jääski, and Yusheng Ji.	AALTO	IEEE Transactions on Vehicular Technology	Published (open access)
4.	Vehicular Systems Technologies: Challenges and Trends Across Transportation Means	José Santa, Ramón Sanchez-Iborra	UMU	Electronics	Published (open access)

5.	MIGRATE: Mobile Device Virtualisation Through State Transfer	José Santa, Jordi Ortiz, Pedro J. Fernández, Miguel Luis, Christian Gomes, Jorge Oliveira, Diogo Gomes, Ramón Sánchez-Iborra, Susana Sargento, Antonio F. Skarmeta	UMU	IEEE Access	Published (open access)
6.	Multi-objective Optimization of Uplink NOMA-Enabled Vehicle-to-Infrastructure Communication	Furqan Jameel, Guftaar Ahmad Sardar Sidhu, Manzoor Ahmed, Xingwang Li, Riku Jäntti	AALTO	IEEE Access	Published (open access)
7.	5G Beyond 3GPP Release 15 for Connected Automated Mobility on Cross-Border Contexts	Gorka Velez, Angel Martin, Giancarlo Pastor, Edward Mutafungwa	VICOM, AALTO	Sensors	Published (open access)
8.	Smooth and Low Latency Video Streaming for Autonomous Cars during Handover	Oussama El Marai; Tarik Taleb	AALTO	IEEE Network Magazine	Published (open access)
9.	Hybrid Positioning for Smart Spaces: Proposal and Evaluation	Pedro J. Fernández, José Santa, Antonio F. Skarmeta	UMU	Applied Sciences	Published (open access)
10.	Evaluation of a zone encryption scheme for vehicular networks	Jorge Gallego-Madrid, Ramon Sanchez-Iborra, Jose Santa, Antonio F. Skarmeta-Gomez	UMU	Computer Networks	Published

11.	Eco-Efficient Mobility in Smart City Scenarios	Ramon Sanchez-Iborra, Luis Bernal-Escobedo, Jose Santa	UMU	Sustainability	Published (open access)
12.	SOFTWARE-DEFINED LOCATION PRIVACY PROTECTION For OR VEHICULAR NETWORKS	Abdelwahab Boualouache, Ridha Soua, Qing Tang, Thomas Engel	UL/LIST	[Book Chapter] Springer Book, Machine Intelligence and Data Analytics for Sustainable Future Smart Cities	Published (open access)
13.	LPWAN-Based Vehicular Monitoring Platform with a Generic IP Network Interface	José Santa, Ramon Sanchez-Iborra, Pablo Rodriguez-Rey, Luis Bernal-Escobedo and Antonio F. Skarmeta	UMU	Sensors (Special issue Selected Papers from the 2nd Global IoT Summit: IoT Technologies and Applications for the Benefit of Society)	Published (open access)
14.	A Center-Rule-Based Neighborhood Search Algorithm for Roadside Units Deployment in Emergency	Yanjun Shi, Lingling Lv, Hao Yu, Liangjie Yu and Zihui Zhang	DUT	Mathematics (MDPI)	Published (open access)
15.	An Efficient Resource Scheduling Strategy for V2X Microservice Deployment in Edge Servers	Yanjun Shi, Yijia Guo, Lingling Lv and Keshuai Zhang	DUT	Future internet (MDPI)	Published (open access)
16.	Mobility-as-a-Service research trends of 5G-based vehicle platooning	Lingling Lv, Yanjun Shi, Weiming Shen	DUT	Service Oriented Computing and Applications	Published (open access)

17.	Vehicular Communication Management Framework: A Flexible Hybrid Connectivity Platform for CCAM	Dries Naudts, Vasilis Maglogiannis, Seilendria Hadiwardoyo, Daniel van den Akker, Simon Vanneste, Siegfried Mercelis, Peter Hellinckx, Bart Lannoo, Johann Marquez-Barja and Ingrid Moerman	Ghent University, University of Antwerp	MDPI Future Internet Journal	Published (open access)
18.	A Coordination Algorithm for Signalized Multi-Intersection to Maximize Green Wave Band in V2X	Yanjun Shi, Jiajian Li, Qiaomei Han, Lingling Lv	DUT	IEEE Access	Published (open access)
19.	A Collaborative Merging Strategy with Lane Changing in Multilane Freeway On-Ramp Area with V2X Network	Yanjun Shi, Hao Yu, Yijia Guo and Zhiheng Yuan	DUT	Future Internet (MDPI)	Published (open access)
20.	Consortium Blockchain for Cooperative Location Privacy Preservation in 5G-enabled Vehicular Fog Computing	Abdelwahab Boualouache, H. Sedjelmaci, Thomas Engel	UL	IEEE Transactions on Vehicular Technology	Published (open access)
21.	Inter-PLMN Mobility Management Challenges for Supporting Cross-Border Connected and Automated	Konstantinos Trichias, Panagiotis Demestichas, Nikolaos Mitrou	WINGS	Journal of ICT Standardization, special issue on Zero-touch Network and Service Automation (ZSM)	Published (open access)

	Mobility (CAM) over 5G Networks				
22.	5G for Connected and Automated Mobility (CAM) in Europe: Targeting Cross-Border Corridors	Jorge Pereira	Latif Ladid (UL)	IEEE Network Magazine	Published
23.	Federated Learning-based Scheme for Detecting Passive Mobile Attackers in 5G Vehicular Edge Computing	Abdelwahab Boualouache, Thomas Engel	UL	Elsevier Annals of Telecommunications	Published (open access)
24.	A parametric quality model to evaluate the performance of tele-operated driving services over 5G networks	Pablo Pérez, Jaime Ruiz, Ignacio Benito & Raúl López	Nokia Bell Labs	Springer Multimedia Tools and Applications	Published
25.	Machine Learning-Based Radio Access Technology Selection in the Internet of Moving Things	Ramon Sanchez-Iborra, Luis Bernal-Escobedo, Jose Santa	UMU	China Communications	Published
26.	5G MEC-enabled vehicle discovery service for streaming-based CAM applications	Gorka Vélez, Josu Pérez, Ángel Martín (VICOM)	VICOM	Multimedia Tools and Applications	Published

27.	Learning-based decentralized offloading decision making in an adversarial environment	Byungjin Cho and Yu Xiao	AALTO	IEEE Transactions on Vehicular Technology	Published (open access)
28.	A Particle Swarm Optimisation with Linearly Decreasing Weight for Real-Time Traffic Signal Control	Yanjun Shi, Yuhan Qi, Lingling Lv andDonglin Liang	DUT	Machines (Special Issue Connected and Automated Vehicles (CAVs): Technologies and Applications)	Published (open access)
29.	A Graph-Based Optimal On-Ramp Merging of Connected Vehicles on the Highway	Yanjun Shi, Zhiheng Yuan,Hao Yu,Yijia Guo and Yuhan QiORCID	DUT	Machines (Special Issue Connected and Automated Vehicles (CAVs): Technologies and Applications)	Published (open access)
30.	TinyML-Based Fall Detection for Connected Personal Mobility Vehicles	Ramon Sanchez-Iborra, Luis Bernal-Escobedo, Jose Santa, Antonio F. Skarmeta	UMU	CMC-Computers, Materials & Continua Special Issue: Artificial Intelligence Enabled Intelligent Transportation Systems	Published (open access)
31.	Resource Management in Converged Optical and Millimeter Wave Radio Networks: A Review	Doruk Sahinel, Simon Rommel, Idelfonso Tafur Monroy	TUE	Applied Sciences	Published (open access)
32.	Design and Evaluation of Remote Driving Architecture on 4G and 5G Mobile Networks	Jos den Ouden, Victor Ho, Tijs van der Smagt, Geerd Kakes, Simon Rommel, Igor Passchier, Jakub	TUE, SISSBV, AIIM, KPN	Frontiers in Future Transportation	Published (open access)

		Juza, Idelfonso Tafur Monroy			
33.	A Control Method with Reinforcement Learning for Urban Un-Signalized Intersection in Hybrid Traffic Environment	Yanjun Shi, Yuanzhuo Liu, Yuhan Qi and Qiaomei Han	DUT	Sensors (Special Issue Internet of Things, Big Data and Smart Systems)	Published (open access)

Table 20: Technical and Scientific Papers

No	Title	Authors	Partners	Event
1.	Edge capacity planning for real-time compute-intensive applications	Marius Noreikis, Yu Xiao, Yuming Jiang	AALTO	IEEE International Conference on Fog Computing (ICFC'19)
2.	Route-based Radio Coverage Analysis of Cellular Network Deployments for V2N Communication	Umar Saeed, Jyri Hämäläinen, Edward Mutafungwa, Risto Wichman, David Gonzalez G., Mario Garcia-Lozano	AALTO	IEEE WiMOB 2019
3.	Usability Benefits and Challenges in mmWave V2V Communications: A Case Study	Muhammad Usman Sheikh, Jyri Hämäläinen, David Gonzalez Riku Jäntti, Osvaldo Gonsa	AALTO	IEEE WiMOB 2019
4.	5G Video Optimization Challenges for Entertainment and Remote Driving In Connected Mobility	Ignacio Benito Frontelo, Jaime Ruiz Alonso, Pablo Perez, João Moutinho, Diego Bernárdez Morón,	Nokia Bell Labs, CCG, CTAG	EuCNC2019

		Francisco Sánchez Pons		
5.	A Lightweight Policy-aware Broker for Multi-domain Network Slice Composition	Xuan-Thuy Dang, Fikret Sivrikaya	TUB, GTARC	IEEE ICIN 2020 (23rd Conference on Innovation in Clouds, Internet and Networks and Workshops)
6.	Enforcing GDPR regulation to vehicular 5G communications using edge virtual counterparts	Jordi Ortiz, Pedro J. Fernández, Ramón Sánchez-Iborra, Jorge Bernal, José Santa, Antonio F. Skarmeta	UMU	2020 IEEE 3rd 5G World Forum (5GWF 2020)
7.	5G Trials for Cooperative, Connected and Automated Mobility (CCAM) along European Cross-Border Corridors	5G-MOBIX, 5G-CroCo, 5G Carmen	WINGS, ICCS	Joint White Paper
8.	5G-MOBIX - towards autonomous and connected mobility in Europe based on the potential of 5G	Aitor Fernández	AEVAC	6th Congress of Smart Cities
9.	V2X-supported automated driving in modern 4G networks	Pasi Pyykönen, Aki Lumiaho, Matti Kutila, Johan Scholliers	VTT	16th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP)
10.	Cloud Based HD Maps in the 5G-MOBIX Project	Tiago Dias, Jorge Ribeiro, Lara Moura	A-to-Be	Virtual ITS European Congress
11.	Description of the Methodology developed to perform traffic safety assessment: Using advanced image analytics on	Francisco Freitas; Carolina Alves	Siemens	Virtual ITS European Congress

	overhead video captured by drone			
12.	CCAM Infrastructure Support for 5G Advanced Driving Scenarios	João Almeida, Joaquim Ferreira, João Moutinho, Daniel Jáuregui, Estrela Álvarez, Marcel van Sambeek	IT, CCG, CTAG, TNO	Virtual ITS European Congress
13.	Qualifying 5G SA for L4 automated vehicles in a multi-PLMN experimental testbed	Giancarlo Pastor, Edward Mutafungwa, Jose Costa-Requena, Xuebing Li, Oussama El Marai, Norshahida Saba, Aziza Zhanabatyrova, and Yu Xiao	AALTO, SENSIBLE4	IEEE VTC 2021
14.	Integrated Service Discovery and Placement in Information Centric Vehicular Network Slices'	Xuan-Thuy Dang, Fikret Sivrikaya, Sebastian Peters	TUB, GTARC	IEEE 93rd Vehicular Technology Conference (Helsinki)
15.	On-board unit to connect personal mobility vehicles to the IoT	Jose Santa, Luis Bernal-Escobedo, Ramon Sanchez-Iborra	UMU	The 17th International Conference on Mobile Systems and Pervasive Computing (MobiSPC)
16.	Vision-based road construction site detection and localization	AALTO	AALTO	Aalto University Master's thesis
17.	5G for automated and connected cars	AALTO	AALTO	Aalto University Bachelor's thesis
18.	SDN-based Misbehavior Detection System for Vehicular Networks	Abdelwahab Boualouache, Ridha Soua, Thomas Engel	UL	2020 IEEE 91st Vehicular Technology Conference (VTC2020 Spring)
19.	Toward an SDN-based Data Collection Scheme	Abdelwahab Boualouache, Ridha Soua, Thomas Engel	UL	ICC 2020 - 2020 IEEE International Conference on Communications (ICC)

	for Vehicular Fog Computing			
20.	TDD Synchronization Testing Over Neighbouring 5G Networks in a Cross-Border Corridor	Serhat Col, Nikolaos Kostopoulos, Fotini Setaki, Eutuxia Nikolitsa, Afrim Berisa, Konstantinos Trichias	WINGS, COSMOTE, Turkcell, Ericsson	IEEE 5G for CAM Virtual Summit
21.	HD Maps in the 5G-MOBIX project	Tiago Dias, Jorge Ribeiro, Mohannad Jooriah, Lara Moura, Joaquim Ferreira et al.	IT, A-to-Be, CTAG	IEEE 5G for CAM Virtual Summit
22.	5G-MOBIX: The Greece-Turkey Cross-Border Corridor	Nazlı Güney, Konstantinos Trichias, Dries Naudts, Vasilis Maglogiannis, Tahir Sarı, Serhat Çöl, Ioannis Zompas	Turkcell, Ford, Ericsson, WINGS	IEEE 5G for CAM Virtual Summit
23.	5G-MoBiX ES-PT Cross-Border Corridor	Diana Blanco, Francisco José Sánchez, Diego Bernárrdez, Marta Miranda, Daniel Jáuregui, Joel Puga, Filipe Meneses, Emanuel Sousa	CTAG, CCG	IEEE 5G for CAM Virtual Summit
24.	Latency Assessment for CCAM services over 5G	Oscar Castañeda, Janie Baños, Antonio J. Garrido, Carlos Cárdenas, Carlos Mendes, Antonio Serrador, Nuno Cota, Nuno Datia,Nuno Cruz	ISEL, DEKRA	IEEE 5G for CAM Virtual Summit
25.	Service performance measurement methods over 5G	ICCS, WINGS	ICCS, WINGS	White paper – ICT-18 performance KPIs

	experimental networks			
26.	A Performance Measurement Platform for C-ITS over 5G	António Serrador; Carlos Mendes; Nuno Datia; Nuno Cota; Nuno Cruz; Ana R. Beire	ISEL	EUCNC 2021
27.	Intelligent Misbehavior Detection System for Detecting Position Falsification Attacks	Faisal Hawlader, Abdelwahab Boualouache, Sébastien Faye, and Thomas Engel	UL, LIST	Workshop on 5G and Beyond Wireless Security (IEEE International Conference on Communications)
28.	A Multi-objective Roadside Units Deployment Method in VANET	Zihui Zhang, Chao Li, Liangjie Yu, Yiqiang Zhao and Yanqiang Li	SDAS	IEEE International Conference on Smart Internet of Things (SmartIoT 2021)
29.	A shortest job first algorithm for minimizing the average delay of vehicles at the un-signalized intersection	Yanjun Shi, Hafiz Abdul Saboor, Lujun Wang and Zihui Zhang	DUT	IEEE International Conference on Smart Internet of Things (SmartIoT 2021)
30.	A Scheduling Algorithm for Pass-through of Connected and Automated Vehicle with Different Priorities in Non-signalized Intersection	Lujun Wang, Yanjun Shi, Xiangjie Xiao, Xuyang Cao and Fuzheng Qu	DUT	IEEE International Conference on Smart Internet of Things (SmartIoT 2021)
31.	Complexity Assessment with K-Weighted Entropy for Cloud-Edge-Vehicle System	Yanjun Shi, Jiajian Li and Lingling Lv	DUT	IEEE International Conference on Smart Internet of Things (SmartIoT 2021)

32.	SEP4CAM-A Simulative/Emulative Platform for C-V2X Application Development in Cross-Border and Cross-Domain Environments	Sebastian Peters, Fikret Sivrikaya, Xuan-Thuy Dang	TUB, GT-ARC	IEEE 25th International Symposium on Distributed Simulation and Real Time Applications (ACM DS-RT 2021)
33.	Cloud Based HD Maps Scenario in the 5G-MOBIX Project	Tiago Dias, Jorge Ribeiro, Lara Moura	A-to-Be	27th ITS World Congress
34.	View on 5G Architecture	5GPPP Architecture Working Group	AALTO, KPN, VED	5G Architecture White Paper V4.0
35.	Hierarchical Deep Reinforcement Learning based Dynamic RAN Slicing for 5G V2X	Umuralp Kaytaz, Fikret Sivrikaya, Sahin Albayrak	GT-ARC, TUB	IEEE Global Communications Conference (IEEE GLOBECOM) 2021

Table 21: Conferences, Congresses and other dissemination events

*Online Presentations highlighted in yellow

No.	Event	Type of activity	Partner(s)	Year
1.	Greek Digital Technology Symposium	Presentation	COSMOTE	2018
2.	Workshop on 5G for Cross-border Corridors and the Strategic Deployment Agenda	2 Presentations	ERTICO, WINGS	2018
3.	Automotive Cybersecurity 2018	Presentation	UL	2018
4.	ICT2018 conference	Presentation (also at 5G-PPP booth where MOBIX flyer was distributed)	ERTICO	2018
5.	Chinese Ministry of Science and Technology (MOST)	Presentation	ERTICO	2018
6.	EU Parliament Workshop	Presentation	ERTICO	2019
7.	FICIS 2019	Presentation	Siemens Mobility	2019
8.	Turkcell Technology Summit	Booth and a demonstration of what	Turkcell	2019

		platooning is using programmable toy trucks		
9.	5G Forum	Poster presentation	NOKIA ES	2019
10.	4th Global Pre-Commercial 5G Industry Summit	Presentation	UL	2019
11.	ITS Europe Congress, Eindhoven, Netherlands	Presentation	CTAG CCG	2019
12.	ITS Europe Congress, Eindhoven, Netherlands	Presentation	WINGS, CATAPULT	2019
13.	ITS Brainport 2019	Presentation	Catapult	2019
14.	IEEE 5G Summit	Presentation	UL	2019
15.	World Transport Congress 2019 (China-EU Collab special session)	Presentation	Catapult, ERTICO	2019
16	EuCNC 2019	Presentation	UMU	2019
17.	EUCNC 2019	Presentation	ERTICO	2019
18.	EUCNC 2019	Presentation	Nokia Bell Labs, CCG, CTAG	2019
19.	Summer school on "Smart Cities for a Sustainable Energy Future - From Design to Practice"	Presentation	GT-ARC	2019
20.	ITU Telecom World 2019	Panel discussion	AEVAC	2019
21.	Human Factors and Ergonomics Society (HFES 2019)	Poster presentation	CCG	2019
22.	Digital Transport Days conference	Presentation	AALTO	2019
23.	ITS World Congress Singapore 2019	Presentation	Catapult	2019
24.	ITS World Congress Singapore 2019	Presentation	ERTICO	2019
25.	5GTNF (5G Test Network Finland) Result Seminar	Presentation	AALTO	2019
26.	Innovation Forum 2019 organized by the	Presentation	COSMOTE	2019

	Hellenic-German Chamber of Commerce			
27.	5G Drive Workshop on V2X	Presentation	AALTO	2019
28.	BeeTech Conferences Turkey	Presentation	Ericsson	2019
29.	TNO workshop 5G deployment: the heterogeneity Challenge at the European Parliament	Presentation	ERTICO, TNO	2019
30.	ARCADE Stakeholder workshop	Presentation	ERTICO	2019
31.	The Future Cities (FICIS 2019)	Presentation	SIEMENS	2019
32.	China-Europe Forum	Presentation	CATAPULT	2019
33.	Hel Tech	Presentation	AALTO	2019
34.	World Transport Convention-Europe-China ITS Forum	Presentation	CATAPULT	2019
35.	IEEE International Conference on Fog Computing (ICFC'19)	Presentation	AALTO	2019
36.	Global IoT Summit	Presentation	UL	2019
37.	IEEE 15th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMOB)	Paper Presentation (WC2)	AALTO	2019
38.	IEEE 15th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMOB)	Paper Presentation (WC4)	AALTO	2019
29.	5G Techritory event	Presentation	ERTICO	2019
40.	IEEE ICIN 2020	Presentation	TUB, GTARC	2020

41.	5G PPP Technology Board Workshop	Presentation	WINGS	2020
42.	Vehículos autónomos y conectados: una realidad cercana con el 5G	Panel discussion	AEVAC	2020
43.	6th Congress of Smart Cities (VI Congreso Ciudades Inteligentes)	Presentation	AEVAC	2020
44.	Global IoT Summit 2020	Presentation (chair)	UL/UMU	2020
45.	IEEE 5G World Forum 2020	Presentation (co-chair)	UL	2020
46.	IEEE 5G World Forum 2020	Paper Presentation	UMU	2020
47.	Future Networked Car Symposium (FNC-2020)	Presentation	UL	2020
48.	2020 IEEE 91st Vehicular Technology Conference (VTC2020 Spring)	Paper Presentation	UL	2020
49.	Board Meeting of the Belt and Road International Transport Alliance (BRITA)	Presentation	ERTICO	2020
50.	2020 IEEE International Conference on Communications (ICC)	Presentation	UL	2020
51.	IEEE Conference on Network Softwarization	Presentation	UMU	2020
52.	17th International Conference on Mobile Systems and Pervasive Computing (MobiSPC)	Paper Presentation	UMU	2020
53.	16th IEEE International Conference on Intelligent Computer Communication and Processing (ICCP 2020)	Paper Presentation	VTT	2020
54.	L3Pilot Summer School	Presentation	CCG	2020

55.	IoT and Edge Computing: Future directions for Europe	Presentation	UMU	2020
56.	ACM MobiHoc Workshop on "Cooperative data dissemination in future vehicular networks" (D2VNet)	Presentation	FORD	2020
57.	The Digital Around the World event	Moderation and Keynote Speech	UL/UMU	2020
58.	IEEE International Symposium on Networks, Computers, and Communications	Keynote Speech	UL	2020
59.	Infocom World Conference 2020 - Transforming Greece: The 5G and Fiber Enablers - The Future is now	Presentation	INTRA	2020
60.	5GPPP Technology Board workshop	Presentation	ICCS	2020
61.	Websummit	Presentation	Siemens	2020
62.	5G Test Network Finland (5GTNF) Results Seminar	Presentation	AALTO	2020
63.	ITS European Congress 2020	Paper Presentation	IT, CTAG, CCG, TNO	2020
64.	O Futuro com 5G na Mobilidade	Presentation	Nokia PT, NOS and A-to-BE	2020
65.	5G PPP Webinar: 5G for Cooperative, Connected and Automated Mobility (CCAM)	Presentation	WINGS	2020
66.	IEEE 5G-IoT Summit	Keynote Speech	UL	2020
67.	EUROPEAN TRUCK PLATOONING CHALLENGE Meeting	Presentation	DUT	2021
68.	6th Annual Future of Transport Conference	Presentation	ERTICO	2021

69.	ScaleUp 360° Intelligent Telematics Europe	Presentation	FORD	2021
70.	TRAI 5G and Artificial Intelligence Conference (in Turkish)	Presentation	FORD, Turkcell, TUBITAK	2021
71.	Tech4Fleet (International Congress on Fleet Management Technologies)	Presentation	AEVAC	2021
72.	IEEE VTC 2021	Paper Presentation	AALTO, SENSIBLE4	2021
73.	IEEE VTC 2021	Paper Presentation	TUB, GTARC	2021
74.	Mobility MKT Observatory	Presentation	AEVAC	2021
75.	IEEE 5G for CAM summit	Presentation	ERTICO, UL	2021
76.	IEEE 5G for CAM summit	Paper Presentation	Turkcell, Ford, Ericsson, WINGS	2021
77.	IEEE 5G for CAM summit	Paper Presentation	CTAG, CCG	2021
78.	IEEE 5G for CAM summit	Paper Presentation	A-to-Be, IT, CTAG	2021
79.	IEEE 5G for CAM summit	Paper Presentation	DEKRA, ISEL	2021
80.	IEEE 5G for CAM summit	Paper Presentation	WINGS, COSMOTE, Turkcell, Ericsson	2021
81.	EuCNC 2021	Workshop Presentation	UMU	2021
82.	EuCNC 2021	Paper Presentation	ISEL	2021
83.	EuCNC 2021	Workshop Presentation	WINGS, ICCS, IT,KPN	2021
84.	EuCNC 2021	Workshop Presentation	Turkcell, COSMOTE	2021
85.	EuCNC 2021	Workshop Presentation	KPN	2021
86.	EuCNC 2021	Workshop Presentation	COSMOTE, Turkcell	2021
87.	EuCNC 2021	Workshop Presentation	DEKRA	2021
88.	IEEE International Conference on Communications (4TH WORKSHOP ON 5G AND	Paper Presentation	UL	2021

	BEYOND WIRELESS SECURITY)			
89.	5GPPP webinar: Practical insights from 5G Test, Measurement and KPI Validation with vertical applications	Webinar Presentation	ICCS	2021
90.	2nd 2CeVau Workshop: Cybersecurity Challenges of the 5G Corridors	Presentation	WINGS	2021
91.	IEEE 5th International Conference on Smart Internet of Things (SmartIoT 2021)	Paper Presentation	DUT	2021
92.	IEEE 5th International Conference on Smart Internet of Things (SmartIoT 2021)	Paper Presentation	DUT	2021
93.	IEEE 5th International Conference on Smart Internet of Things (SmartIoT 2021)	Paper Presentation	DUT	2021
94.	IoT Week 2021 - 5G FOR CONNECTED AND AUTOMATED MOBILITY SUMMIT	Presentation	ERTICO, CTAG, Turkcell	2021
95.	5GTNF	Presentation	AALTO	2021
96.	ETSI webinar IPv6 Enhanced Innovation: the IPv6-Only Future in the 5G, IoT & Cloud Era, 1/2	Webinar Presentation	ULL	2021
97.	IEEE/ACM 25th International Symposium on Distributed Simulation and Real Time Applications (DS-RT)	Paper Presentation	TUB, GT-ARC	2021
98.	ITS World Congress 2021	Presentation	ERTICO, Turkcell	2021
99.	ITS World Congress 2021	Presentation	FORD	2021
100.	ITS World Congress 2021	Paper Presentation	A-To-Be	2021

101.	2021 IEEE 4th 5G World Forum	Organizer and Moderator	UL,PO	2021
102.	2021 IEEE 4th 5G World Forum	Presentation	WINGS	2021
103.	2022 IEEE 4th 5G World Forum	Presentation	WINGS	2021
104.	Stakeholder Workshop on 5G corridor deployment in the perspective of CEF Digital and the Recovery and Resilience Plans	Presentation	ERTICO, COSMOTE	2021
105.	Digital Around the World '21	Presentation	UL, GT-ARC, ICCS, INTRA, VEDECOM	2021
106.	5G-Blueprint webinar "will teleoperation revolutionise the transportation and logistics sectors?"	Presentation	ERTICO	2021
107.	IEEE CSCN 2021	Presentation	Turkcell	2021

Exhibition Booths, Short Demos and Workshops

Table 22: Exhibition Booths, Short Demos and Workshops

No.	Event	Type of activity	Partner(s)	Year
1.	Mobile World Congress (MWC2019)	Exhibition booth	ERTICO, Turkcell	2019
2.	EUCAD2019	Exhibition booth	ERTICO	2019
3.	Turkcell Technology Summit	Exhibition booth	Turkcell	2019
4.	Turkcell 25th Year Anniversary Reception	Exhibition booth	Turkcell	2019
5.	ITS European Congress	Exhibition booth	ERTICO	2019
6.	ITS European Congress	Workshop	ERTICO	2019
7.	EuCNC 2019	5G-MOBIX video	ERTICO	2019

8.	EuCNC 2019	Workshop	ERTICO, WINGS, UMU	2019
10.	5G Techritory event	Exhibition booth	ERTICO	2019
11.	ITS Hellas Conference	Exhibition booth	ICCS	2019
12.	ITS World Congress	Exhibition booth	ERTICO	2019
13.	ITS World Congress	Workshop	ERTICO	2019
14.	TechDays Aveiro 2019	Exhibition booth	IT	2020
15.	MP20 Trade Fair 2020	Exhibition booth	VTT	2020
16.	IEEE 5G World Forum 2020	2 Demonstrations (virtual)	UL/UMU	2020
17.	ITS Virtual Congress	Exhibition booth (virtual)	ERTICO	2020
18.	5G-MOBIX Workshop	Workshop (virtual)	ERTICO, CTAG, AEVAC, FORD, INTRASOFT	2021
19.	EUCAD 2021	Exhibition booth (virtual)	ERTICO	2021
20.	EUCNC 2021	Exhibition booth (virtual)	ERTICO, ICCS	2021
21.	EUCNC 2021		ICCS, WINGS, Turkcell, KPN, COSMOTE, DEKRA, CROCO & CARMEN	2021
22.	DE TS	Demonstration	TU Berlin, GT-ARC, Valeo, Vicomtech	2021
23.	ITS World Congress, Hamburg	Exhibition booth	ERTICO	2021
24.	ITS World Congress, Hamburg	Workshop	ERTICO, VTT	2021
25.	2021 IEEE 4th 5G World Forum	Demonstration	AALTO, Sensible 4	2021

Table 23: Other Dissemination Activities

Type of Activity/Event	Channel	Partner(s)	Year
Annual Corporate responsibility report (for 2018) of OTE Group	COSMOTE website	COSMOTE	2018
Website Article	COSMOTE website	COSMOTE	2019

Annual Corporate responsibility report (for 2018) of DTGroup	DT website	COSMOTE	2018
Blogpost	SENSIBLE4 Website	SENSIBLE4	2020
Article	El Confidencial	N/A	2021
Blog Post	Agenda de la Empresa	ALSA	2021
Article	La Voz de Galicia	CTAG	2021
Article	NOKIA Website	NOKIA	2021
Article	OECD Nov 2021 Report	ERTICO	2021
Blogpost	CTAG Website	CTAG	2021

Table 24: Webinars

When	Title of Webinar	Partners Involved
16/09/2019	"Cooperative, Connected and Automated Mobility use cases for initial deployment of 5G technological innovations"	ERTICO, AALTO, WINGS
20/05/2020	"5G-MOBIX: Presentation of the ES – PT Cross Border Corridor and preliminary findings"	CTAG, TELEFONICA, CCG, TIS, ERTICO
29/06/2020	"Presentation of the GR-TR cross border corridor: Activities and Objectives"	TURKCELL, ERICSSON GR, FORD, WINGS
16/09/2020	"Evaluation Framework"	ICCS, DEKRA, CTAG, AKKA, VTT, CCG
14/06/2021	"Challenges and recommendations to 5G for CAM deployment in Cross-border scenarios"	INTRASOFT, CTAG, AEVAC, FORD, DETECON, CATAPULT
03/12/2021	"5G for CAM Deployment Challenges and Lessons Learned"	GT-ARC, TUe, 5G-CroCo, 5G-CARMEN

Annex 6 – Trial Site Demo Descriptions

Figure 6: NL Trial Site Demo Description

5G-MOBIX Demo Description Template

In the latest review, the PO stressed the need for concrete plans when it comes to public demonstrations, to ensure efficient preparation for demonstrating results and attracting the right audience. Therefore, I would like to ask all CBC/TS leaders to fill in this form by Monday, February 07 EoB with information on their demos, which will later be included in the deliverable.

CBC or Trial Site *

The Netherlands

Date (exact or approximate) *

wk14 or wk19 2022

Location (s) *

Automotive Campus Helmond NL

Online/Physical *

- [ ] Online
- [x] Physical

Type of Event (Would it be a stand-alone event or in the framework of another event? In case of the latter, which event?) *

5G-Fieldlab event organised by KPN

Use cases/ user stories to be demonstrated (please describe how the demonstrations will be organised, i.e. what will be exactly demonstrated to the audience and how they can experience it/ them) *

Live demo of collision avoidance at the venue

Related presentations, workshops and topics (proposed structure of the rest of the event programme) *

Presentations of main use case topics in NL Trials

Target Audience/Invited Stakeholders *

- [x] Public Authorities & Policy Makers
- [x] Automotive Industry Stakeholders
- [x] MNOs
- [x] Road Operators
- [x] Service Providers
- [ ] RTOs
- [x] Press
- [ ] Other:

Please provide 1-5 specific institution/organisation/company names (per stakeholder category) you will be inviting *

I do not have that available now

Which SMEs could you involve and which specific results / demonstration parts can be highlighted as beneficial/ of interest to SMEs? *

SMEs are not involved, not sure what can be of interest to SMEs since it concerns safety critical applications that typically only certified companies can provide to OEM.

Do you have a (communications) department in charge of these aspects for the organisation of the event? (i.e. a department that WP7 could liaise with take care of preparing a press release and inviting local/ relevant press representatives to attend the event) *

- (●) Yes
- ( ) No

Additional Comments

KPN is in charge of the event. They might provide further info

Figure 7: FR Trial Site Demo Description

5G-MOBIX Demo Description Template

In the latest review, the PO stressed the need for concrete plans when it comes to public demonstrations, to ensure efficient preparation for demonstrating results and attracting the right audience. Therefore, I would like to ask all CBC/TS leaders to fill in this form by Monday, February 07 EoB with information on their demos, which will later be included in the deliverable.

CBC or Trial Site *

France

Date (exact or approximate) *

21/04/2022

Location (s) *

Versailles

Online/Physical *

- [ ] Online
- [x] Physical

Type of Event (Would it be a stand-alone event or in the framework of another event? In case of the latter, which event?) *

Stand-alone

Use cases/ user stories to be demonstrated (please describe how the demonstrations will be organised, i.e. what will be exactly demonstrated to the audience and how they can experience it/ them) *

Demonstration of the use case "Infrastructure-assisted advanced driving" using one connected automated vehicle, 1 connected vehicle, and one basic vehicles. Audiance will experience the use case in the CAV (which changes its lane based on the guidance receved from the infructure, if a collisin risk is detected) as well as at the control centre.

Related presentations, workshops and topics (proposed structure of the rest of the event programme) *

1. Session "5G-MOBIX": Introduction of 5G-MOBIX, FR TS activities/results,
2. Session "Related 5G projects (5GMed, 5G-META, 5G-Openroad)
3. Session "Vision of Industries on 5G and CAM"

Target Audience/Invited Stakeholders *

- [x] Public Authorities & Policy Makers
- [x] Automotive Industry Stakeholders
- [x] MNOs
- [x] Road Operators
- [x] Service Providers
- [x] RTOs
- [x] Press
- [ ] Other:

Please provide 1-5 specific institution/organisation/company names (per stakeholder category) you will be inviting *

Stellantis, Renault, VALEO, Continental, TDF

Which SMEs could you involve and which specific results / demonstration parts can be highlighted as beneficial/ of interest to SMEs? *

AKKA: French SME, member of 5G-MOBIX and 5G-META projects, Yogoko- french connectivity solutions provider

Do you have a (communications) department in charge of these aspects for the organisation of the event? (i.e. a department that WP7 could liaise with take care of preparing a press release and inviting local/ relevant press representatives to attend the event) *

- (●) Yes
- ( ) No

Additional Comments

The event will be organised in French targeting French stakeholder.

Figure 8: FI Trial Site Demo Description

5G-MOBIX Demo Description Template

In the latest review, the PO stressed the need for concrete plans when it comes to public demonstrations, to ensure efficient preparation for demonstrating results and attracting the right audience. Therefore, I would like to ask all CBC/TS leaders to fill in this form by Monday, February 07 EoB with information on their demos, which will later be included in the deliverable.

CBC or Trial Site *

Finland

Date (exact or approximate) *

Within 19-29 April 2022

Location (s) *

Espoo, Finland

Online/Physical *

- [ ] Online
- [x] Physical

Type of Event (Would it be a stand-alone event or in the framework of another event? In case of the latter, which event?) *

Stand-alone event

Use cases/ user stories to be demonstrated (please describe how the demonstrations will be organised, i.e. what will be exactly demonstrated to the audience and how they can experience it/ them) *

The remote control or driving of an SAE L4 automated vehicle presents stringent requirements on connection between the vehicle and the Remote Operations Centre (ROC) where remote human operator is located. Furthermore, the whole control loop needs to be kept tight. The demo showcases 5G service continuity solutions for remote driving in a 5G multi-PLMN environment. These solutions ensure availability of adequate vehicle-to-network connectivity for continuous transmission of the data traffic streams from the vehicle to the ROC, particularly LIDAR and HD video, and timely reception of command messages from ROC to the vehicle. The invited participants will experience the demo from two perspectives, firstly from a follower vehicle behind the automated vehicle and secondly from the perspective of the remote operator at the ROC.

Related presentations, workshops and topics (proposed structure of the rest of the event programme) *

The public demo will be supported by slideshows on screens that provide an introductory storyboard of the demo and presents results/KPIs of interest in showcasing the impacts of the considered solutions for service continuity.

Target Audience/Invited Stakeholders *

- [x] Public Authorities & Policy Makers
- [x] Automotive Industry Stakeholders
- [ ] MNOs
- [ ] Road Operators
- [ ] Service Providers
- [ ] RTOs
- [ ] Press
- [x] Other: Device vendors, local public funding body, municipalities

Please provide 1-5 specific institution/organisation/company names (per stakeholder category) you will be inviting *

TRAFICOMM, Forum Virium, City of Espoo, Business Finland, Goodmill Systems

Which SMEs could you involve and which specific results / demonstration parts can be highlighted as beneficial/ of interest to SMEs? *

Goodmill Systems is a Finnish SME that provides a 5G multi-SIM OBU for the FI-TS and leverages these trials to further showcase the capabilities of their product for critical CAM use cases.

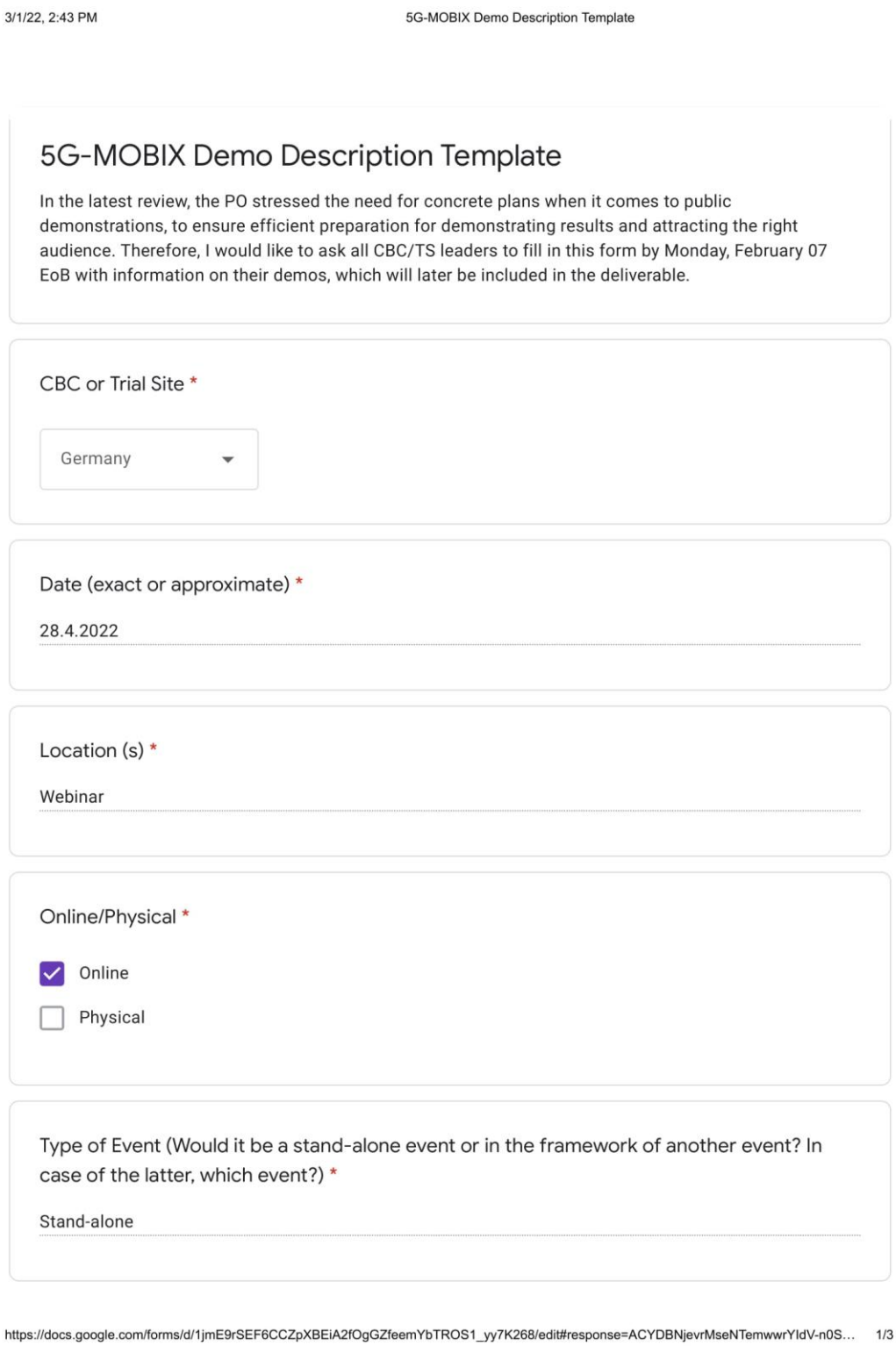
Do you have a (communications) department in charge of these aspects for the organisation of the event? (i.e. a department that WP7 could liaise with take care of preparing a press release and inviting local/ relevant press representatives to attend the event) *

- (●) Yes
- ( ) No

Additional Comments

There are some details which are still tentative, for instance, list of invitees will increase and some details of the actual demo may be updated.

Figure 9: DE Trial Site Demo



5G-MOBIX Demo Description Template

In the latest review, the PO stressed the need for concrete plans when it comes to public demonstrations, to ensure efficient preparation for demonstrating results and attracting the right audience. Therefore, I would like to ask all CBC/TS leaders to fill in this form by Monday, February 07 EoB with information on their demos, which will later be included in the deliverable.

CBC or Trial Site *

Germany

Date (exact or approximate) *

28.4.2022

Location (s) *

Webinar

Online/Physical *

- [x] Online
- [ ] Physical

Type of Event (Would it be a stand-alone event or in the framework of another event? In case of the latter, which event?) *

Stand-alone

Use cases/ user stories to be demonstrated (please describe how the demonstrations will be organised, i.e. what will be exactly demonstrated to the audience and how they can experience it/ them) *

Recorded demo video footage from September demo event 2021 and CBC trials event (happening right now, March 2022) will be shown. The September demo video includes both DE TS use cases performed in Berlin, the CBC demo video focuses on the extended sensors use case. In addition to the videos the German trial site presents the outcome of their trials and results obtained. This will be followed by a Q&A session for the audience.

Related presentations, workshops and topics (proposed structure of the rest of the event programme) *

This will be a stand-alone event, focused on DE TS, no further programme is planned.

Target Audience/Invited Stakeholders *

- [x] Public Authorities & Policy Makers
- [x] Automotive Industry Stakeholders
- [x] MNOs
- [ ] Road Operators
- [x] Service Providers
- [ ] RTOs
- [x] Press
- [ ] Other:

Please provide 1-5 specific institution/organisation/company names (per stakeholder category) you will be inviting *

Berlin Senate, Valeo, IAV, Deutsche Telekom, Cohda Wireless, MobiledgeX, local press in Berlin

Which SMEs could you involve and which specific results / demonstration parts can be highlighted as beneficial/ of interest to SMEs? *

Cohda Wireless could be interested into the usage of RSU deployment and integration into the 5G V2X architecture.

Do you have a (communications) department in charge of these aspects for the organisation of the event? (i.e. a department that WP7 could liaise with take care of preparing a press release and inviting local/ relevant press representatives to attend the event) *

- (●) Yes
- ( ) No

Additional Comments

Further companies / SMEs may be discovered after DE TS internal discussion

Figure 10: KR Trial Site Demo

5G-MOBIX Demo Description Template

In the latest review, the PO stressed the need for concrete plans when it comes to public demonstrations, to ensure efficient preparation for demonstrating results and attracting the right audience. Therefore, I would like to ask all CBC/TS leaders to fill in this form by Monday, February 07 EoB with information on their demos, which will later be included in the deliverable.

CBC or Trial Site *

South Korea

Date (exact or approximate) *

Nov. 26, 2020

Location (s) *

Workshop venue: Somerset Central Bundang Hotel in Seoul, South Korea (Demonstration site: highway test track in Yeoju, South Korea)

Online/Physical *

- [ ] Online
- [x] Physical

Type of Event (Would it be a stand-alone event or in the framework of another event? In case of the latter, which event?) *

It will be a stand-alone event.

Use cases/ user stories to be demonstrated (please describe how the demonstrations will be organised, i.e. what will be exactly demonstrated to the audience and how they can experience it/ them) *

On Nov. 26, 2020, the final field trial for Tethering via Vehicle (User Story 5.2) will be conducted on a highway test track in Yeoju, Korea, using a mmWave OBU (vehicle UE) installed on a demo bus and five gNB DUs deployed along the trackside. The field trial will mainly show the results that a data rate of 1.15 Gbps between the gNBs and the vehicle UE is achievable for 90% of the time during the trial and a Wi-Fi data rate of over 400 Mbps is attainable by a smartphone.

Related presentations, workshops and topics (proposed structure of the rest of the event programme) *

The workshop for the final field trial of Tethering via Vehicle (User Story 5.2) will take place on On Nov. 26, 2020, and it will be organized as 1) a presentation on a brief overview of the field trial including background and key enablers to be demonstrated, 2) visitors move to the trial site (Yeoju highway test track), 3) field trial demonstrated to the visitors, 4) visitors move back to the venue, 5) a presentation for summary and Q&A session.

Target Audience/Invited Stakeholders *

- [x] Public Authorities & Policy Makers
- [x] Automotive Industry Stakeholders
- [x] MNOs
- [x] Road Operators
- [x] Service Providers
- [x] RTOs
- [ ] Press
- [ ] Other:

Please provide 1-5 specific institution/organisation/company names (per stakeholder category) you will be inviting *

Korea Expressway Corporation, Hanwha systems, Amazon, Korea University

Which SMEs could you involve and which specific results / demonstration parts can be highlighted as beneficial/ of interest to SMEs? *

SMEs of network equipment development may be involved. What may stand out to them is the Implementation of the millimeter-wave 5G NR communication system and its application on wireless connectivity provision to moving vehicles.

Do you have a (communications) department in charge of these aspects for the organisation of the event? (i.e. a department that WP7 could liaise with take care of preparing a press release and inviting local/ relevant press representatives to attend the event) *

- (●) Yes
- ( ) No

Additional Comments

Figure 11: GR-TR CBC Trial Site Demo

5G-MOBIX Demo Description Template

In the latest review, the PO stressed the need for concrete plans when it comes to public demonstrations, to ensure efficient preparation for demonstrating results and attracting the right audience. Therefore, I would like to ask all CBC/TS leaders to fill in this form by Monday, February 07 EoB with information on their demos, which will later be included in the deliverable.

CBC or Trial Site *

Greece -Turkey

Date (exact or approximate) *

May, 9-10

Location (s) *

1st day at Greece, 2nd day at Turkey

Online/Physical *

- [ ] Online
- [x] Physical

Type of Event (Would it be a stand-alone event or in the framework of another event? In case of the latter, which event?) *

The event will be just on behalf of 5G-Mobix project, so stand-alone.

Use cases/ user stories to be demonstrated (please describe how the demonstrations will be organised, i.e. what will be exactly demonstrated to the audience and how they can experience it/ them) *

The first day of event will be held at Greece side of the border. There will be two use cases, See What I See and Assisted Border Crossing.

Related presentations, workshops and topics (proposed structure of the rest of the event programme) *

The first demo day will start with a "Welcome and Introduction" session. This session includes Welcome Note, Introduction to 5G-MOBIX, Agenda of the day/Description of Day demonstrations and Q&A subsessions. The the first demo and second demo which are Assisted Border Crossing and (Platooning with) See What I See, respectively will be shown. Then we will have a Q&A session. The second day will start with a "Welcome and Introduction" session. This session includes Welcome Note, Introduction to 5G-MOBIX and Agenda of the Day/Description of Day 2 demonstrations. The the first demo and second demo which are Platooning and Truck Routing, respectively will be shown. After that, "Network Measurement Exhibition" will be held. Then we will have a Q&A session.

Target Audience/Invited Stakeholders *

- [x] Public Authorities & Policy Makers
- [x] Automotive Industry Stakeholders
- [x] MNOs
- [ ] Road Operators
- [x] Service Providers
- [ ] RTOs
- [ ] Press
- [ ] Other:

Please provide 1-5 specific institution/organisation/company names (per stakeholder category) you will be inviting *

Turkcell, Tubitak, Ford, Ericsson TR, BTK Information and Communication Technologies Authority

Which SMEs could you involve and which specific results / demonstration parts can be highlighted as beneficial/ of interest to SMEs? *

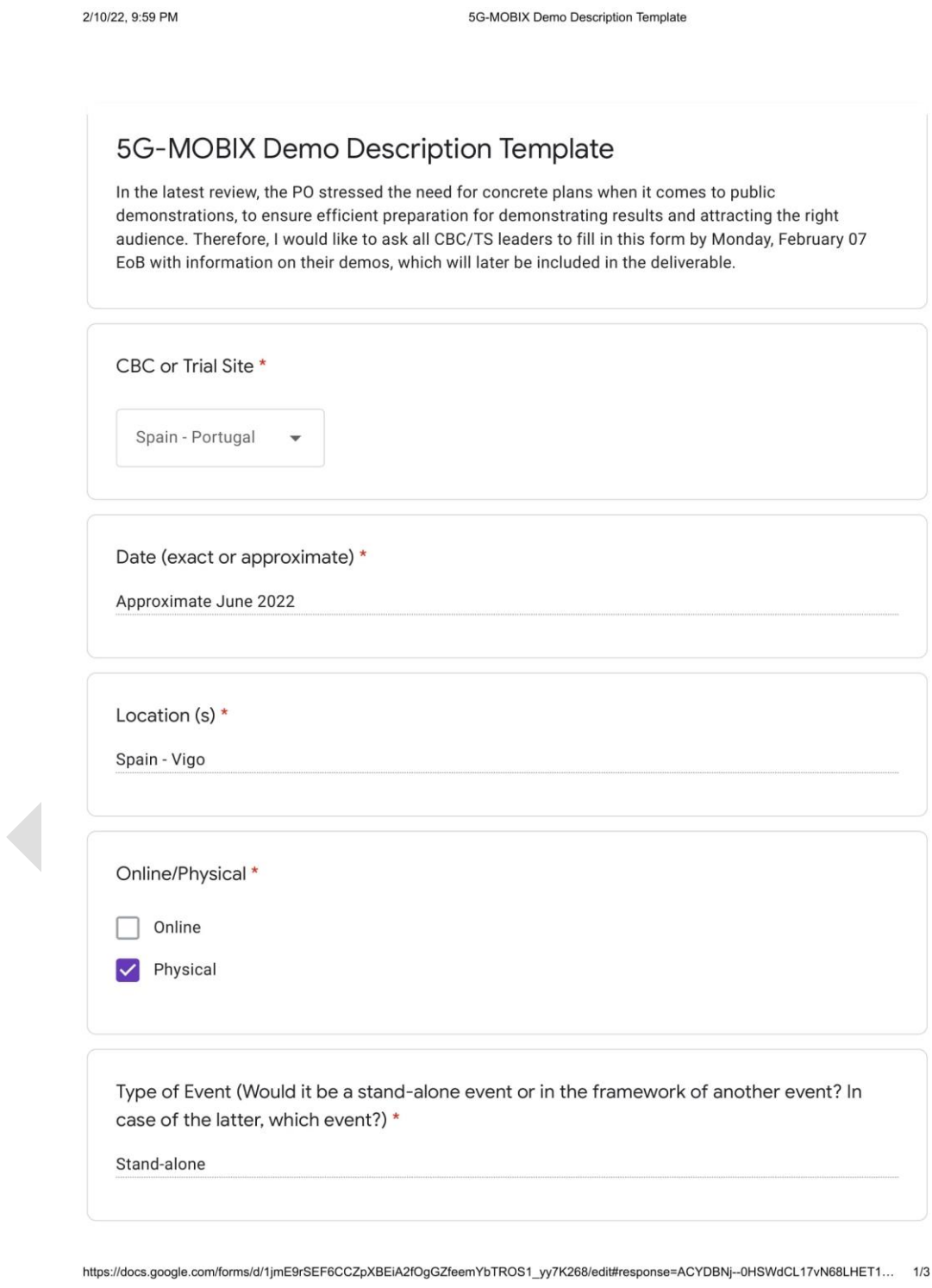
N/A

Do you have a (communications) department in charge of these aspects for the organisation of the event? (i.e. a department that WP7 could liaise with take care of preparing a press release and inviting local/ relevant press representatives to attend the event) *

- (●) Yes
- ( ) No

Additional Comments

Figure 12: ES-PT CBC Trial Site Demo/Final Event



2/10/22, 9:59 PM 5G-MOBIX Demo Description Template

5G-MOBIX Demo Description Template

In the latest review, the PO stressed the need for concrete plans when it comes to public demonstrations, to ensure efficient preparation for demonstrating results and attracting the right audience. Therefore, I would like to ask all CBC/TS leaders to fill in this form by Monday, February 07 EoB with information on their demos, which will later be included in the deliverable.

CBC or Trial Site *

Spain - Portugal

Date (exact or approximate) *

Approximate June 2022

Location (s) *

Spain - Vigo

Online/Physical *

Online

Physical

Type of Event (Would it be a stand-alone event or in the framework of another event? In case of the latter, which event?) *

Stand-alone

https://docs.google.com/forms/d/1jmE9rSEF6CCZpXBEiA2fOgGZfeemYbTROS1_yy7K268/edit#response=ACYDBNj--0HSWdCL17vN68LHET1… 1/3

Use cases/ user stories to be demonstrated (please describe how the demonstrations will be organised, i.e. what will be exactly demonstrated to the audience and how they can experience it/ them) *

Remote Driving and Vulnerable Road User- In the Tui-Valença Bridge. The operation of the use cases will be demonstrated. The transfer of attendees to the use case presentation area will be facilitated.
The equipment involved and how it works will be demonstrated.Participants will be able to ride in the prototype vehicle.
Questions will be answered.

Related presentations, workshops and topics (proposed structure of the rest of the event programme) *

Presentations of the activities and work carried out at the event. Transfer to the demo area and presentations of other use cases on CTAG tracks.

Target Audience/Invited Stakeholders *

- [x] Public Authorities & Policy Makers
- [ ] Automotive Industry Stakeholders
- [x] MNOs
- [x] Road Operators
- [x] Service Providers
- [ ] RTOs
- [x] Press
- [ ] Other:

Please provide 1-5 specific institution/organisation/company names (per stakeholder category) you will be inviting *

DGT, Fomento, Infraestructuras de Portugal, Concello de Tui, Cámara de Valença

Which SMEs could you involve and which specific results / demonstration parts can be highlighted as beneficial/ of interest to SMEs? *

Item still under discussion

Do you have a (communications) department in charge of these aspects for the organisation of the event? (i.e. a department that WP7 could liaise with take care of preparing a press release and inviting local/ relevant press representatives to attend the event) *

- (●) Yes
- ( ) No

Additional Comments