

# **5G-SOLUTIONS** for European Citizens

# D8.7A - Clustering Plan for International Cooperation (v1.0)

# **Document Summary Information**

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# Glossary of terms and abbreviations used

Abbreviation / Term	Description
EU	European Union
T, e.g. T8.5	Work package Task
WP	Project Work package

## 1 Executive Summary

This deliverable describes an initial plan for how 5G-SOLUTIONS will operate in order to meet three goals that are detailed in Task 8.5 "Clustering plan and activities for international cooperation and exchange of results" of the Grant Agreement:

- Promoting international cooperation;
- Improving even further results from field trials external to the project;
- Contributing to further global 5G standardization.

5G-SOLUTIONS partners will address these goals by undertaking the following actions:

- 1. Participate and collaborate in major international 5G events;
- 2. Arrange workshops with counterparts outside EU, on the international scene;
- 3. Engage digitally across a variety of appropriate media.

Different work packages and beneficiaries in 5G-SOLUTIONS will carry out the specific activities. Figure 1 illustrates the general approach to the division of activities and responsibilities. Although Task 8.5 and WP9 "Dissemination, Communication and Capacity Building" have the responsibility for planning and administering the activities, the beneficiaries are those carrying them out. Moreover, the beneficiaries will control the budgets that are actually required for delivering a specific outcome e.g. participating at events.

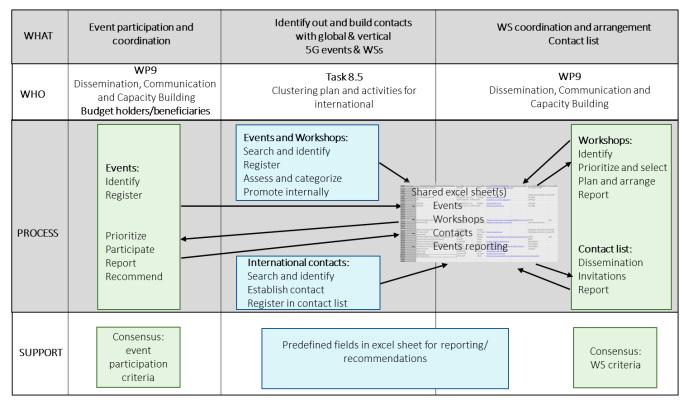


Figure 1 Sharing of activities and responsibilities between 5G-SOLUTIONS WPs and beneficiaries

Central to the administration of the activity is a shared Excel book where data on events, workshops, and contacts is registered. The spreadsheet is centrally stored on a shared Teamwork workspace that is securely available to all consortium members.

This plan is made in close collaboration between WP8 and WP9 but with engagement from all 5G-SOLUTIONS partners who are involved in supporting dissemination and communication. General progress on implementation of the plan will be reviewed regularly in WP8 and WP9 conference calls to ensure alignment across the project goals.

#### 2 Introduction

Task 8.5 in 5G-SOLUTIONS will plan and administer the activities for international cooperation. This is an ongoing activity, which must be coordinated with many other activities in 5G-SOLUTIONS. This document is an overview of how this activity is administered, those who are responsible, and links to updated overviews of events and workshop opportunities.

#### 2.1 Mapping Projects' Outputs

The purpose of this section is to map 5G-SOLUTIONS Grant Agreement commitments, both within the formal Deliverable and Task description, against the project's respective outputs and work performed.

Table 1: Adherence to 5G-SOLUTIONS GA Deliverable & Tasks Descriptions

	5G-SOLUTIONS Task	Respective Document Chapter(s)	Justification				
Task 8.5 – Clustering plan and activities for international cooperation and exchange of results	This task will define and prepare a clustering plan with associated activities aiming at promoting the exchange of results, sharing knowledge and experience as well as best practices for the emerging 5G services to different relevant verticals. It aims to foster cooperation not only between other ICT-19 consortia, but also with other EU and international initiatives on 5G services with clusters in the USA, Japan, Korea and China. This direct cooperation among relevant 5G actors and vertical industries at an international level will create a sustainable metacluster that will help to improve even further the results from the field trials so as to promote international cooperation and contribute further to global 5G standardization (leveraging the initiatives from task T8.3). For this purpose, consortium members will participate in major international 5G events as well as arrange workshops to meet with their counterparts outside EU.	Chapter 3-7	This deliverable segments the task into a set of feasible modules and activities, and presents a plan for how to administer the task. The task is an on-going activity.				
	5G-SOLUTIONS Deliverable						

#### D8.7A – Clustering plan and activities for international cooperation.

Initial (v1.0) version of reports containing the clustering plan activities (M10)

# 2.2 Deliverable Overview and Report Structure

In the following, we first introduce an overview of Task 8.5 – Clustering plan and activities for international cooperation and exchange of results. In Chapter 4, we describe how 5G-SOLUTIONS will administer event

participation. Chapter 5 is a description related to arranging of workshops on the international scene. Chapter 6 describes how 5G-SOLUTIONS shall engage digitally in an international cluster. Chapter 7 describes how the project will be carried out administrative wise. Finally, Chapter 8 is the conclusion.

# 3 Overview task 8.5

Task 8.5 in 5G-SOLUTIONS will define and administer 5G-SOLUTIONS's activities for international cooperation with linkages to WP9 for execution of the actions. This document contains the initial plan and will be extended in M33 with a final deliverable (D8.7B) which will describe the outcomes of the activities. Figure 2 illustrates the concrete activities that will be undertaken and how they relate to the overall objectives and purpose.

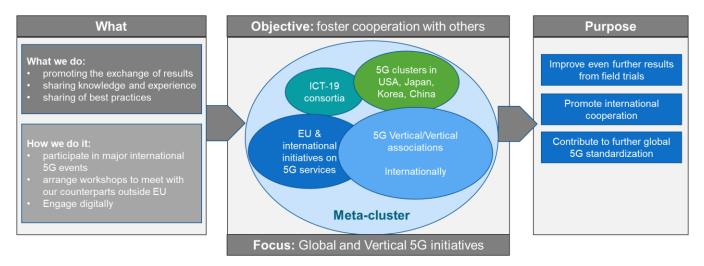


Figure 2 Illustration of tasks, objectives and purpose

#### 3.1 Purpose

The purpose of the task is to:

- Promote international cooperation;
- Improve even further results from field trials;
- Contribute to further global 5G standardization.

### 3.2 Objective

The objective of the task is to foster cooperation with others. This shall form a meta-cluster together with other 5G projects and vertical stakeholders.

The cooperation shall happen foremost along two dimensions:

- Engage with the verticals relevant to 5G-SOLUTIONS;
- Engage internationally.

The project will engage with other ICT-19 consortia. However, the focus shall be to foster cooperation with associations such as:

- Other (than ICT-19) EU initiatives on 5G services;
- Other international initiatives on 5G services;
- 5G clusters in the USA, Japan, Korea and China.

#### 3.3 What to do

On the international scene, 5G-SOLUTIONS partners shall do three things:

- 1) Participate and collaborate in major international 5G events;
- 2) Arrange workshops with counterparts outside EU, on the international scene;
- 3) Engage digitally across appropriate media.

This plan adds digital engagement to the original description of the task. We see this as a natural and complementary component of the clustering activities particularly given the global focus of the task.

All activities require that 5G-SOLUTIONS build a repository of contacts, events and workshops.

In collaboration settings, 5G-SOLUTIONS members promote:

- Exchange of results;
- Sharing knowledge and experience;
- Best practices for the emerging 5G services to different relevant verticals.

It should be noted that these activities do not require presentation of a paper, or the creation of a specific publication. Such demands are relaxed by the activity's purposes of liaison, result improvement, and vertical, especially in the early phases of the project.

#### 3.4 How to do it, and responsibilities

Above presented Figure 1, illustrates the sharing of responsibilities between WPs and beneficiaries. Task 8.5 has primarily a responsibility for searching and reaching out in the international community, and coordinating contacts, events and workshops.

Other WPs in 5G-SOLUTIONS and different project beneficiaries will carry out the actual clustering activities; that is events participation and arranging workshops. All activities must be closely coordinated with WP9, Dissemination, Communication and Capacity Building. The budget allocation in the submission is a foundation and limitation for the beneficiary activities.

Task 8.5 has two main responsibilities:

- 1. Searching and reaching out for international events and workshops, register and promote internally;
- 2. Search for international contacts, register, and enable digital contact;
- 3. Enable reporting from event participation.

In the context of Task 8.5, WP 9 has three main responsibilities:

- 1. Identify, prioritize and register workshops;
- 2. Arranging and administer workshops on behalf of 5G-SOLUTIONS;
- 3. Updating contact list for dissemination etc.

In the context of Task 8.5, WP9 and budget beneficiaries in 5G-SOLUTIONS have the responsibilities:

- 1. Identify and register events, prioritize;
- 2. Prioritize, participate, and report in international events.

## 3.5 Shared Excel book for international contacts, events, and workshops

An Excel book is at the core of the coordination of international contacts, events participation and workshop arrangements in Task 8.5. The Excel book has the name: 5G-SOLUTIONS Clustering plan.xlsx. It is available on 5G-SOLUTIONS' Teamwork website in the folder named Excel Dissemination/Clustering, archived under Dissemination material. The link to the folder is the following:

https://inlecom.teamwork.com/#/projects/510051/files?catid=1395385

This folder contains a second Excel book with the name *5G-SOLUTIONS dissemination.xlsx*. This book is for keeping track of disseminations. WP9 administers this book and it covers T9.1, T9.2 and T9.4. Activities contributing to community building in T9.3, however, are reported in the *5G-SOLUTIONS Clustering plan.xlsx*. It

is also agreed in the allocation of work that WP9 has full responsibility for how 5G-SOLUTIONS engages specifically in workshops.

To be clear about the main distinction between these two Excel books:

- In 5G-SOLUTIONS dissemination.xlsx we register actual disseminations;
- In *5G-SOLUTIONS Clustering plan.xlsx* we register events, workshops, and contacts that are <u>potential</u>, work in progress, and <u>subject to evaluations before or after they have taken place or materialized.</u>

Task 8.5 is the main administrator of *5G-SOLUTIONS Clustering plan.xlsx*. However, all beneficiaries in 5G-SOLUTIONS can and should add content to the book.

Table 2 illustrates the excel sheet for events and potential workshops. Both Excel books will be subject to continuous improvements throughout the project.

5G-SOLUTIONS Clustering plan.xlsx has four sheets, which plays different roles in our cluster activities.

- **International events WS**: here we register and assess events and workshops that are identified, which 5G-SOLUTIONS beneficiaries potentially could interact with, and recommendations/decisions about future interaction.
- **International associations etc.**: here we register all types of associations which we can reach out to and establish contact with, and eventually accumulate actual contact details and a record of the type of interaction.
- **Contact list:** here we register contacts we have reached out to, and eventually established contact with.
- Other Contributions Community: here we register other types of contacts and community building.

Table 2 Example of excel sheet for planning participation in international events – 5G-SOLUTIONS Clustering plan.xlsx

A	В		С	D	E	F	G H
	▼ What	<b>▼</b> W	hen	Weekc	Cost p ▼	Where	▼ Link
Other events	Workshop for SMEs involvement	A	ril, 2020			Milano	http://www.iothingsmilan.com/11641-2/?lang=en
3							
1							
5 EU	EUCNC 2020	15	-18 June			Dubrovnic	
5	Layer 123 world congress 2020	12	-15 Oct 2020	Mon - Th	ıu	The Hague	https://events.layer123.com/sdn
7	ICIN	24	-27 Feb 2020	Mon - Th	u 750 Euro	Paris	https://www.icin-conference.org/program/
3	ONDM 2020	18	-21 May 2020	Mon - Th	ıu	Barcelona	https://ondm2020.cttc.cat/
)	DRCN 2020	24	-27 March 20	2C Tue - Fri	650 Euro	Milan	https://www.drcn2020.polimi.it/
0							
1							
2							
3							
4							
5 Vertical specific	5F-ACIA Workshop on Industrial 5G	22	. January - 08	30-17.30		Coventry,UK	https://www.wm5g.org.uk/wp-content/uploads/2019/12/5G-Acia-Fly-Workshop
6	NEM Summit 2020	18	-20 May 2020	1		Dubli, Ireland	https://nem-initiative.org/nem-summit-2020/
7							
8							
9 Global	Mobile World Congress, 2020	24	-27 Feb. 2020			Barcelona	
0	6G Wireless Summit		-20 March, 20			Levi, Finland	https://www.6gsummit.com/
1	Hannover Messe	20	-24 April, 202	0		Hannover	
2	5GPPP 8th Global 5G Event: 5G empowers the digital economy	Ju	ly 2020			Shanghai	https://5g-ppp.eu/event/5g-ppp-8th-global-5g-event-5g-empowers-the-digital-e
3	5G Vertical Workshop at the 5G World Summit	Ju	ne 2020			London	
		-					the there were the the st

# 4 Participation in International Clusters/Events

This activity concerns the 5G-SOLUTIONS participation in international events. The activity needs to identify events, to prioritize and decide on participation, and finally to participate as determined by WP9 under the overall dissemination activities. We foresee that our participation will have different characteristics throughout the next 2.5 years.

- 2020: Participate, get to know the community, build relationships and a contact database;
- 2021-22: Mainly contribute with presentations or other appropriate dissemination actions.

In initial phases it is natural to seek new insight and build a network while in later phases we are in the position to contribute significantly by drawing on results emerging from the project.

#### 4.1 Continuous Coordination of Events Participation

In order to participate in an international event, the following routine is the preferred approach. This is to ensure a push on activities, being able to reach objectives, and coordination of available budgets.

Table 3 Routine for event planning and participation

What	Who (and where)	Excel books/sheets to use
Search for and identify event: - register event	Task 8.5 All beneficiaries WP 9	5G-SOLUTIONS Clustering plan.xlsx - International events - WS
- Assess and categorize events - Promote internally in 5G- SOLUTIONS	Task 8.5	
Prioritize, participate	<ul> <li>To be discussed in regular WP8/WP9 meetings according to purpose of international clustering</li> <li>WP 9 and project beneficiaries</li> <li>Consensus for decision criteria will be built over time</li> </ul>	
Report participation as dissemination	Event participants	Dissemination material.xlsx In relevant sheet
Recommend events for future participation	Event participants	5G-SOLUTIONS Clustering plan.xlsx - International events – WS
Update overview of contacts	Event participants	5G-SOLUTIONS Clustering plan.xlsx - Contact list

#### 4.2 Other Ways to Engage International Clusters

The project must be open to additional ways to engage in the international cluster either as alternative or complementing activities. For instance, many 5G associations and vertical groups are reaching out to their stakeholders digitally to get comments and input on ideas, news or implementations. Task 8.5 will as far as possible identify and share emerging information for each of the respective sectors and prompt and encourage all 5G-SOLUTIONS participants to regard themselves as representatives and agents in the ongoing 5G discourse.

Additionally, companies with global presence will use their internal network to disseminate the 5G-SOLUTIONS results with interested groups. This can potentially branch out into wider international participation, depending on the interest and network contacts of the contacted groups. [For example, consortium partner LMI is planning to use its internal contacts in Ericsson Sweden and Ericsson Canada to disseminate 5G-SOLUTIONS.]

#### 4.3 Overview and Update of Potential Collaborators

The project builds a register for relevant international 5G collaborators and contacts. We aim to register all potential collaborators and contacts in *5G-SOLUTIONS Clustering plan.xlsx*, in the sheets *International Associations* and *Contact list*. It should be noted that the project Full 5G and their administration of the website 5g-ppp.eu are important sources for identifying potential collaborators.

Table 4 Example of Excel sheet for record of relevant collaboration partners (Source: Overview of vertical stakeholders has been made available through the EU support project, Full5G, Deliverable D3.1)

	А	В
1	Association, stakeholder	Industry
2	5G AA - 5G Automotive association	Automotive
3	AMETIC	Automotive
4	ERTICO - ITS Europe	Automotive
5	IEEE-ITS	Automotive
6	VDA - Verein deutscher Automobilhersteller	Automotive
7	Access SPACE Alliance	Aviation and Drones
8	ESOA - EMEA Satellite Operators Association	Aviation and Drones
9	European GNSS Agency	Aviation and Drones
10	Satellite Applications Catapult	Aviation and Drones
11	EBU - European Broadcasting Union	Broadcast, Media
12	NEM - New European Media	Broadcast, Media
13	EDSO	Energy/Utilities
14	eG4U - e-Green for users	Energy/Utilities
15	EUTC - European Utilities Telecom Council	Energy/Utilities
16	FEDARENE - European Federation of Agencies and Regions for Energy	Energy/Utilities
17	ECHAllicance - European Connected Health Alliance	Healthcare
18	HIMSS; COCIR (trade association)	Healthcare

# 5 International Workshop Arrangement

WP9 is responsible for arranging all workshops in 5G-SOLUTIONS and also workshops as part of international conferences or events. For specific details about workshop arrangements, WP9 will maintain a full description of each event and the outcomes achieved.

Task 8.5 focus is to search for and identify international workshops, build relationships with the relevant groups, register, assess and categorize, and promote internally. Furthermore, Task 8.5 shall ensure that contact details are registered, and included in *5G-SOLUTIONS Clustering plan.xlsx*.

#### 5.1 Types of Workshops

The workshops can take different forms. Ideas collected from project participants' fall into the following categories:

- Coordinate with, and be part of other international workshops;
- Arrange workshop sessions as part of international conferences (e.g. MobiCom<sup>2</sup>);
- A specific partner may arrange general workshops where 5G-SOLUTIONS is invited to participate;
- Workshops arranged solely by 5G-SOLUTIONS;
- Workshops arranged by partners addressing their internal networks.

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<sup>&</sup>lt;sup>2</sup> https://sigmobile.org/mobicom/2020/

# 6 Contact list and Digital Engagement

5G-SOLUTIONS has decided that one element in the international clustering activity is to interact digitally with relevant stakeholders. With digital contact we mean to invite others to our events, to disseminate open reports and newsletters, and generally to report statuses (e.g. a project review result). This activity requires a contact list with contact details, e.g. e-mail.

A contact list will overlap with the subscription link that appears on 5G-SOLUTIONS home page: <a href="https://www.5gsolutionsproject.eu/home">https://www.5gsolutionsproject.eu/home</a>. However, a contact list will contain more information about contacts than a contacts than a self-subscription link on a web site. We will register name, title, organization, and other relevant relevant comments. Thus, the contact is to a larger degree validated as a relevant stakeholder. We also need to assure assure our contact that we manage their contact details according to our Data Protection Declaration (<a href="https://www.5gsolutionsproject.eu/data-protection-declaration">https://www.5gsolutionsproject.eu/data-protection-declaration</a>). We keep track of contacts in 5G-SOLUTIONS Clustering plan.xlsx, in the sheet Contact list.

Table 5 provides a routine for administering contacts.

Table 5 Routine for administering contacts

What	Who (and where)	Excel Books/sheet to use		
Search for and identify contacts - register activity	Task 8.5 All beneficiaries WP 9	5G-SOLUTIONS Clustering plan.xlsx - Contact list		
Start interacting with contacts (send first e-mail, invite contact to visit web page, refer to newsletter subscription) - register activity	Task 8.5: carry out interaction, follow up  All others: carry out interaction where this is natural	5G-SOLUTIONS Clustering plan.xlsx - Contact list		
Register confirmed contact		5G-SOLUTIONS Clustering plan.xlsx - Contact list		
Register contact in newsletter subscription list	WP9			
Send relevant information to all contacts as a part of regular tasks, e.g. dissemination, reports, newsletters, invitations	WP9			

All 5G-SOLUTIONS participants will meet new people and make first contact. This activity is a formalization of this, in order to mobilize an international cluster of relevant stakeholders. Figure 3 is an example of a mail sent to a potential contact.

Dear NN1 and NN2,

I am reaching out to project NN on behalf of the ICT-19 project 5G-SOLUTIONS https://www.5gsolutionsproject.eu/. Our project focuses on the verticals:

- Factories of the Future
- Smart Energy
- Smart Cities
- Smart Ports
- Media & Entertainment.

In 5G-SOLUTIONS we have the intention to systematically expand the <u>international</u> 5G community with a focus on these verticals. This implies e.g. to exchange updates on our projects, share invitations about and participate in events and workshops, share relevant information, and explore joint paper contributions. On our side, we would like to receive this type of updates and invitations from the international 5G community, for instance from partners in your country.

Some of our verticals seem to resonate with the manufacturing domain in NN. Therefore, we ask if our colleagues from project NN are interested in further contact with 5G-SOLUTIONS, and if you would like to be included in our register for such purposes? NN1, we especially reach out to you. We also would like to get help from NN2 to help us reach out to other international partners. Please recognize that we are not excluding our European colleagues; we would very much like you to join our efforts.

You may also subscribe to our <u>newsletter</u> or contact us for any question, either me directly or via our <u>web-site</u>. All our data we record about people will be treated according our Data Protection Declaration. (https://www.5gsolutionsproject.eu/data-protection-declaration)

Best regards

NN

Figure 3 Example of email text to potential contact

Letters to potential contacts should contain references to 5G-SOLUTIONS newsletter, with an invitation to subscribe. The following is a direct link to 5G-SOLUTIONS' newsletter subscription:

https://listserv.rediris.es/cgi-bin/wa?SUBED1=5GSOLUTIONS-NEWSLETTER&A=1

The following is a link to 5G-SOLUTIONS website and newsletter invitation:

https://www.5gsolutionsproject.eu/contact-us

The following link is to 5G-Solutions' Data Protection Declaration:

https://www.5gsolutionsproject.eu/data-protection-declaration

#### 7 Administrative Context

#### 7.1 Administrative Tools

The coordination between the partners in task 8.5 will take place on the following platforms:

- Telco meetings for WP8 and WP9;
- Mailing list and mails;
- Excel book shared on the project web site, Teamwork.

### 7.2 Partners Participating Directly in Task 8.5

As of March 2020 those participating in the administering of the clustering are those included in

Table 6. Participation can subject to be changes. These persons have a specific responsibility to carry out activities and responsibilities allocated to Task 8.5.

Organiztaion	Order	Name	Email	Status
(ILS)		Patrick Durkin	patrick.durkin@inlecomsystems.com	Confirmed
TNOR	Primary	Hanne-Stine	hanne-k.hallingby@telenor.com	Confirmed
		Hallingby		
	Secondary	Håkon Lønsethagen	hakon.lonsethagen@telenor.com	Confirmed
PIIU		Maurizio Cecchi	cecchi@piu-innovazione.org	Confirmed
СТТС		Angelos	aantonopoulos@cttc.es	Confirmed
		Antonpoulos		
		Luis Sanabria Russo	<u>Isanabria@cttc.es</u>	Confirmed
		David Pubill	dpubill@cttc.es	Confirmed
TIM	Primary	Andrea di Giglio	andrea.digiglio@telecomitalia.it	Confirmed
Nokia		Udi Margolin	udi.margolin@nokia.com	Confirmed
IRT		Jordi Gimenez	jordi.gimenez@irt.de	Confirmed
LMI		Saman Feghhi	saman.feghhi@ericsson.com	Confirmed
		Anne-Marie Bosneag	Marie Bosneag anne.marie.cristina.bosneag@ericsson.c	
UoP		Spyros Denazis	sdena@upatras.gr	Confirmed
Responsible fo	r WP9 dissemi	nation - coordination co	ontact for Task 8.5	
СТТС		Christos Verioukis	cveri@cttc.es	Confirmed

Table 6 Partners that will participate in planning and task activities

#### 7.3 Participation in Events

The task does not set any limitations to who participates in the international clustering activities. It is recommended that the actual participation is carried out by those who are close to the insight and knowledge. The participation in events are subject to given budget allocations in 5G-SOLUTIONS.

#### 7.4 Reports

Task 8.5 will regularly keep track of participation in and assessment of international events and workshop arrangements. However, WP9 has the responsibility for dissemination tracking in the Excel book *5G-SOLUTIONS dissemination.xlsx*.

#### 8 Conclusions and Next Actions

This deliverable explains and plans how participating in international events and arranging workshops on the international scene will be carried out. The plan addresses the purpose of improving results from field trials, promoting international cooperation, and contributing to global 5G standardization.

At this point of time, the most important contribution of the deliverable is the shared excel book with ideas and updates about events, workshop opportunities, contact details, and vertical associates. As a part of this, the deliverable has also clarified the responsibilities of WP9 and individual beneficiaries in this respect. The deliverable describes and plans an activity that is continuously going on throughout the project's existence.

The final deliverable for this task (D8.7B) will be completed by Month 33 and will report on the overall collaboration efforts, event participation and workshop outcomes executed in close collaboration with WP9.