



SNS OPS – Supporting the SNS JU Operations

D3.1: Year 1 Report on Programme Governance and operation

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Lead editor	Uwe Herzog, EURES
Authors	Uwe Herzog, EURES; Arda Güreller, EAB; David Kennedy, EURES
Reviewers	Kostas Trichias (6G-IA), Micheal Crotty (SETU)
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Abstract

This deliverable summarises the activities that were undertaken by SNS OPS in the first period, from January 2023 – January 2024 (13 months), to enable the governance and operation of the SNS-Initiative community. It focuses primarily on actions related to inter-project collaborations on programme governance level.

The deliverable first reports on the effectiveness of the implementation of the collaboration agreement among the SNS JU projects.

The deliverable then summarises the work of the SNS-I Steering Board (SB) and Technology Board (TB) in the period.

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Executive Summary

This deliverable provides a summary of the activities of SNS OPS from January 2023 to end of January 2024 to support and organise the programme governance of the SNS-Initiative and its operation. This comprised three major activities:

- Adoption of a commonly acceptable Collaboration Agreement (CoA), and organising the accession of SNS beneficiaries to it
- Supporting the SNS-Initiative Steering Board (SB)
- Supporting the SNS-Initiative Technology Board (TB)

Regarding the **SNS JU Collaboration Agreement**, SNS OPS has supported the adoption of a commonly acceptable Collaboration Agreement (CoA) that has been prepared under the lead of the 6G-IA, and once approved has disseminated it to get it signed by all the active participants of the Smart Networks and Services Joint Undertaking (SNS JU). The CoA was based on the earlier 5G PPP version. However, it was significantly upgraded, to adapt it to the Model Grant Agreement of Horizon Europe (instead of H2020), and to clarify the benefits and obligation of all signatories to the collaborative bodies of the SNS JU. The SNS JU CoA was implemented on the basis of the optional Articles 3 & 7 in the SNS Project Grant Agreements, formally linking the projects and installing the requirement that the participants of projects needed to be party to a program level collaboration agreement. The projects understood and accept this requirement and the project leaders were proactive in securing the signatures from their project participants.

The SNS JU CoA has been concluded between 279 parties by the end of 2023. The rate of accession shows that the majority of call 1 participants were signed up in Q2 2023, and by August 2023 only a few signatures were missing. The final 2 signatures were obtained in November 2023. During that process, SNS OPS offered support in terms of answering any questions on process, having meetings with individual organisations where explanations of the agreement were requested, and checking each signed form for correctness and completeness.

During 2023, the European Commission has re-interpreted some key definitions which may have an impact on the construction of the SNS JU CoA. Specifically, they have adopted a new definition of “linked” projects which means it may no longer be appropriate to use Articles 3 & 7 as the basis of the obligation on project participants to be party to a programme level collaboration agreement. This change will require an amendment to the CoA. SNS OPS is now supporting the consideration of exactly what format this amendment should take.

Regarding the support of the **SNS-Initiative Steering Board (SB)**, SNS OPS has coordinated and supported the setup of the SB and its activities in the period.

The setup of the SB has been started at the beginning of 2023, and successfully completed with the organisation of the SB inauguration meeting on 05/09/23. As part of the setup, all 35 projects of SNS Call 1 have been contacted at the beginning of 2023 and solicited to provide the details of who their representatives in the various SNS-I bodies will be. With that information, several distinct mailing lists have been setup. As the actual establishment and inauguration of the SB and TB required a critical mass of projects having signed the SNS Collaboration Agreement, two initial and informal telcos have been organised with the project coordinators in the first half of 2023. The Comms Group instead – not having to wait for projects having signed the SNS Collaboration Agreement – commenced its activity already in February 2023. In parallel, preparations for providing a suitable document repository have started with installing a BSCW v7 server.

With the progress of project participants in signing the Collaboration Agreement, the preparations for an SB inauguration meeting have been started in June 2023, and this meeting has been held in Athens on 05/09/23. SNS OPS has also prepared the proposal for the process of electing the SB Chair and Vice Chair and has organised the respective elections in which Mikael Fallgren has been elected as SB Chair and Tasos Gavras as SB Vice-Chair.

In 2023, i.e. from September to December 2023, in total three meetings of the SB have been organised by SNS OPS, two were physical Face to Face meetings (one of which was the kickoff meeting) and one was by web-conference. The main purpose of the kickoff meeting was to introduce the projects to the

SB activities and their potential (expected) contribution to the joint activities in the SNS JU. In the SB web conference that was organised next the focus was on giving brief updates, sharing news and discussing the necessary coordination and joint actions. At the next and final meeting in 2023 the SB has discussed in detail the projects' participation in the joint activities, most notably in Working Groups but also in potentially joint events e.g. for EuCNC'24. All the agendas, minutes and other supporting documents of the SNS-I SB meetings are stored in the SNS JU BSCW document repository where they can be accessed by all beneficiaries of the SNS-Initiative.

Regarding the support of the **SNS-Initiative Technology Board (TB)**, SNS OPS has coordinated and supported the setup of the TB and its activities in the period.

The setup of the TB and the preparations for its inauguration meeting have been organised by SNS OPS mostly in parallel to those of the SB, leaving however some precedence time-wise to the SB as the main organisational and decision-making body of the SNS-I.

SNS-OPS provides support to the activities of the TB by providing secretarial support, supporting the organisation of meetings, taking minutes, providing an email exploder list to distribute communications to all members and an BSCW platform repository to store relevant documents, and providing a web conference meeting tool.

The inaugural TB meeting has been organised with the SNS projects technical managers on 22/09/23 as an online meeting which was mainly to discuss the ways of working. SNS OPS has also prepared the proposal for the process of electing a TB Chair / Vice Chair and has organised the respective elections in which Kostas Trichias has been elected as TB Chair.

In the period that this Deliverable covers (January 2023 – January 2024), four TB Telco meetings were held in total. Since it was the set-up phase of the TB, the major focus of the meetings was on setting up the TB meeting series, electing the TB chair, agreeing on the TB ToR and discussing and agreeing on the TB work plan and its work items. A concrete outcome of the first TB activities has been the decision to setup a Task Force (TF) addressing Sustainability aspects in the SNS project activities. All the agendas, minutes and other supporting documents of the SNS-I TB meetings are stored in the SNS JU BSCW document repository where they can be accessed by all beneficiaries of the SNS-Initiative.

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Abbreviations

3GPP	Third Generation Partnership Project
5G	5th Generation Wireless Systems
6G	6th Generation Wireless Systems
5G PPP	5G Public Private Partnership
5GAA	5G Automotive Association
5G-ACIA	5G Alliance for Connected Industries and Automation
BSCW	Basic Support for Cooperative Work
CA	Consortium Agreement
CoA	Collaboration Agreement
CEF	Connecting Europe Facility
CEPT	European Conference of Postal and Telecommunications Administrations
CSA	Coordination and Support Action
EC	European Commission
ETSI	European Telecommunication Standards Institute
EuCNC	European Conference on Networks and Communications
G5GE	Global 5G Event
GB	Governing Board
H2020	Horizon 2020
HE	Horizon Europe
KPI	Key Performance Indicator
MWC	Mobile World Congress
PCG	3GPP Project Coordination Group
PIC	Participant Identification Code
PSM	Pre-Structuring Model
SB	Steering Board
SNS JU	Smart Networks and Services Joint Undertaking
SNS-I	SNS-Initiative
TB	Technology Board
TMV WG	Test, Measurement and KPIs Validation Working Group
ToR	Terms of Reference
WoW	Ways of Working
WGs	Working Groups

1 Introduction

The mandate of the SNS OPS support action is to support and facilitate the operational activities of the European SNS Initiative. This means that the prime objective of the coordination and support work is to facilitate the activities of the European SNS Initiative as outlined in the SNS JU partnership contract.

One major element of this work is to support the activities of the main SNS initiative bodies, i.e. the Steering and Technology Boards, facilitating and ensuring efficient collaboration among the SNS projects. In addition, SNS OPS is tasked to establish an agreement among SNS JU projects on their collaboration within the programme, i.e. the SNS Collaboration Agreement, and support implementation of the collaboration processes in practice.

This deliverable provides a summary of the activities of SNS OPS to support and organise these activities.

Structure of the document

Section 2 explains the work done getting the participants in all projects to join the SNS JU programme level Collaboration Agreement.

Section 3 indicates the achievements of the SNS-Initiative (SNS-I) Steering Board through a description of the setup of the SB, complemented by short summaries of the meeting minutes. The full minutes are available in the SNS-JU repository as required.

Section 4 indicates the achievements of the SNS-Initiative (SNS-I) Technology Board through a description of the setup of the TB, complemented by short summaries of the meeting minutes. The full minutes are available in the SNS-JU repository as required.

2 SNS JU Collaboration Agreement

This task has been focused on the adoption of a commonly acceptable Collaboration Agreement (CoA), and the collaboration with the other tasks of this CSA in order to disseminate it and get it signed by all the active participants of the Smart Networks and Services Joint Undertaking (SNS JU). A task force led by the 6G-IA and with the participation of multiple stakeholders from industry, academia, SMEs and the SNS JU, worked intensely to create the CoA on time for the Phase 1 projects of the SNS JU. The CoA was based on the earlier 5G PPP version; however, it was significantly upgraded to adapt it to the Model Grant Agreement of Horizon Europe² (instead of H2020) and to clarify the benefits and obligation of all signatories to the collaborative bodies of the SNS JU (Steering Board, Technology Board and Working groups). Moreover, in Horizon Europe, the instrument of Linked Actions replaced the concept of complementary projects, that was in Horizon 2020, to enable the cooperation between projects in a Joint Undertaking. Additional updates also took place addressing the current changed geopolitical situation, concerns on legal implications from governments to restrict information exchange with certain parties, sanctions to certain countries, organisations or individuals that may be decided by the European Union and/or EU Member States, and more.

2.1 Launching the SNS JU Collaboration Agreement

The SNS-JU CoA was prepared by the 6G IA legal team, with support from the 6GStart project in the last Quarter of 2022. Early in 2023 it was formally endorsed by the SNS JU Governing Board (GB) and introduced by SNS OPS project to the 279 participants of Call 1 (including both beneficiaries and associated partners).

The SNS JU CoA was implemented on the basis of the optional Articles 3 & 7 in the SNS Project Grant Agreement, formally linking the projects and installing the requirement that the participants of projects needed to be party to a program level collaboration agreement. This was done by the SNS JU Office amending all Call 1 Grant Agreements to include the list of SNS projects for the SNS CoA in each project contract.

The projects understood and accept this requirement and the project leaders were proactive in securing the signatures from their project participants.

2.2 Signature Process progress

2.2.1 Governing Board of the 6G IA

Once the SNS Collaboration Agreement was agreed and endorsed, the 6G IA Governing Board members were invited to sign as a clear indication of the instantiation of the agreement. As most of the board were also involved in projects, this established a base from which the uptake grew rapidly.

² https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/agr-contr/general-mga_horizon-euratom_en.pdf

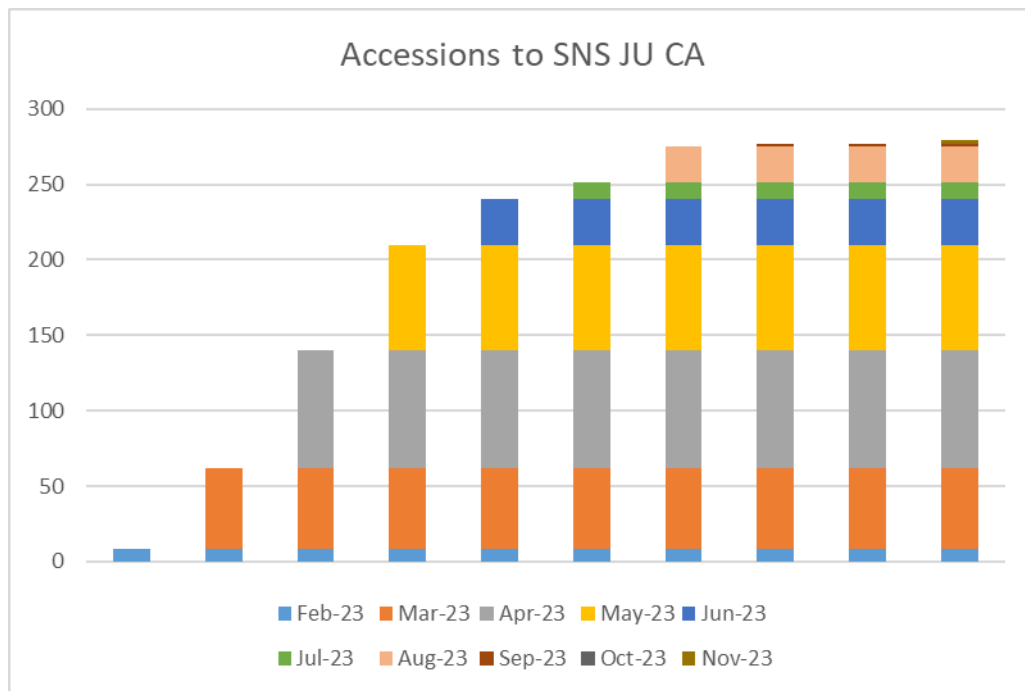


Figure 1: Rate of accession of Call 1 projects to the SNS JU SNS CoA

The SNS JU CoA was concluded between 279 parties by the end of 2023. The rate of accession, as shown in Figure 1, shows that the majority of call 1 participants were signed up in Q2 2023 and by August 2023 only a few signatures were missing. The final 2 signatures were obtained in November 2023.

During that process, SNS OPS offered support in terms of answering any questions on process, having meetings with individual organisations where explanations of the agreement were requested, and checking each signed form for correctness and completeness. This process was occasionally complicated by companies changing name, changing ownership or changing Participant Identification Code (PIC) numbers, i.e. the reference number in the Commission System, meaning an individual explanation had to be found where the offered signature did not correspond with the data of the project participant in the Commission system.

2.2.2 Project Accession the SNS JU SNS Collaboration Agreement

An overview of the projects and the number of signatories per project is shown in Figure 2:

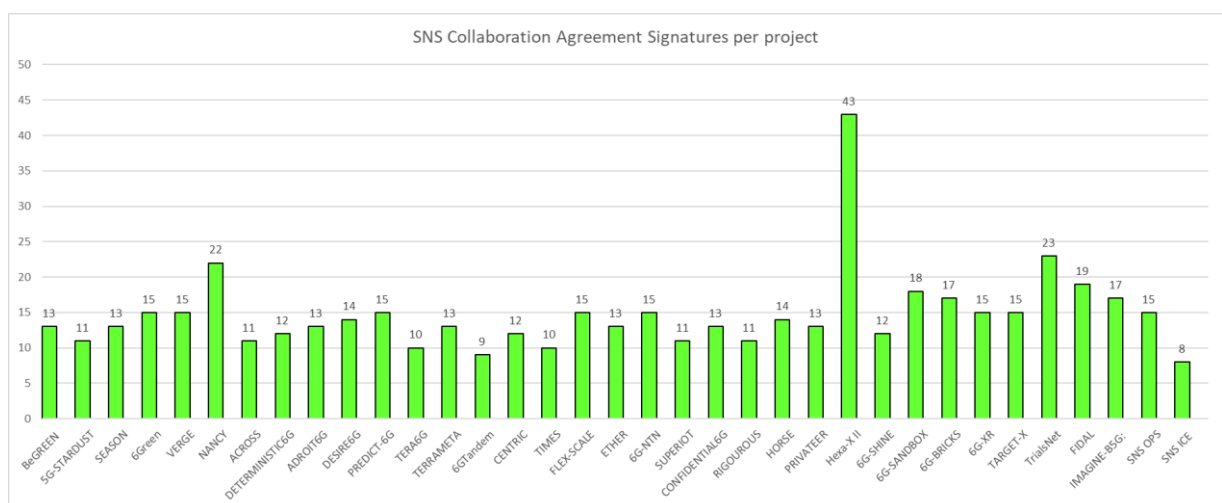


Figure 2: Overview of the number of signatories per SNS Call 1 project

The progress per project was reported to the projects at intervals and reported to both the SNS-I Steering Board (SB) and SNS JU GB as the management bodies got up to speed.

The SNS-I SB was formally established based on the majority of projects being fully subscribed to the SNS Collaboration Agreement.

2.3 Future of the SNS JU Collaboration Agreement

During 2023, the European Commission has re-interpreted some key definitions which may have an impact on the construction of the SNS JU CoA. Specifically, they have adopted a new definition of “linked” projects which means it may no longer be appropriate to use Articles 3 & 7 as the basis of the obligation on project participants to be party to a programme level collaboration agreement.

This change is further supported by the complication that these articles will always require an amendment of all running SNS projects to add a list of new SNS JU projects each time there is a call and more projects are added to the JU. This means considerable work for the SNS JU office and it potentially means hundreds of project amendments per year just to keep the administration of “linked” projects correct.

The alternative to this being considered is to place the CoA participation requirement in Annex 5 of the grant agreement. To facilitate this a formal reference list of the SNS projects is created and will be maintained on the SNS website³ and this can be used as the list of the SNS family of projects that must accede to same CoA. Even the term “Collaboration Agreement” in this case is being used differently from the use expected by different parts of the European Commission.

This change will require an amendment to the CoA as, the current agreement is based on the Article 3&7 approach and future projects may accede under a different contractual reference. To further complicate this, projects from Call 2 (set to start on January 2024) are being contracted prior to the new approach being formally adopted, so they will have an interim arrangement with some text added directly to the Part B of their grant agreements. Because of this, the SNS JU Collaboration Agreement now needs to be amended to integrate projects being obliged to participate in the same agreement under three different contractual obligation methodologies.

SNS OPS is now supporting the consideration of exactly what format this amendment should take. Once the new format is prepared, it will be necessary to ask all 279 call one participants, and some additional 6G IA members, and all Call 2 Participants to accede to the amended SNS JU Collaboration Agreement.

This increases significantly the expected SNS CoA support work for the SNS OPS project for 2024. The anticipated work of collecting the signed SNS CoA from the additional participants from the Call 2 projects will have to be performed in parallel to repetition of the work of collecting Call 1 signatures.

Numerically, the 279 participants of Call 1 include about 50% of the Call 2 participants so the revised SNS Collaboration Agreement in 2024 will have to be signed by roughly 385 participants across both calls.

In total there are 35 projects from call 1 running and an additional 28 from Call 2 that are expected to start in January 2024. This means that SNS OPS will have to oversee this complicated signature process, with both amendments and new parties, across 63 projects in 2024.

³ <https://smart-networks.europa.eu/project-portfolio/>

3 Supporting the SNS-Initiative Steering Board

The SNS OPS CSA provides the secretarial functions for the SNS-Initiative (SNS-I) Steering Board (SB). This involves organising the SB meetings - in case of physical meetings also to find and book a suitable meeting room, determining the agenda with the Chairman and producing the minutes of the meetings and the record of the decisions taken.

In addition, the SB is supported by an email exploder list that is used for communications with all SB members, a BSCW document repository where minutes, slides and other relevant documents are stored, and online-meeting conferencing facilities to host conferences as required.

The setup of the SB has been started at the beginning of 2023, as detailed further down in section 3.1, and successfully completed with the organisation of the SB inauguration meeting on 05/09/23, as described further down in this section. In the remaining months of 2023, i.e. from September to December 2023, three meetings of the SB have been organised by SNS OPS, two were physical Face to Face (f2f) meetings and one was by web-conference. The practice regarding meeting frequency agreed in the SB is to have three f2f meetings per year, with a virtual meeting in between f2f meetings.

F2f meetings are scheduled for a full day and are used for more detailed discussions on strategy, joint horizontal activities, technical topics, review of Working Group (WG) activities, joint presences at dissemination events, future plans etc. Teleconferences in turn are used for short status and progress updates and are typically limited to 2 hours.

The Working Groups which activities are reviewed in the SB meetings includes the Project-WGs (three WGs at the time of writing this document – Architecture WG, TMV WG and Software Networks WG – for details see the SNS web⁴), but also the 6G-IA Industry WGs⁵.

SNS OPS carries out a bi-monthly documentation of Working Group activities and status. These reports are used by several Boards and WGs in SNS JU, including the SNS-I SB. Details on this reporting are presented in Deliverables prepared by SNS OPS WP4, including D4.1⁶ so far.

3.1 Setup of the SNS-I SB

The setup of the SNS-I SB has been conducted in the first part of 2023 as a joint activity with the 6GStart CSA. The process and activities are presented below:

As a first action, all 35 projects of SNS Call 1 have been contacted at the beginning of 2023 and solicited to provide the details of who their representatives in SB, TB and the Comms Group (i.e. the forum where SNS projects discuss communication and dissemination aspects) would be. With that information, several distinct mailing lists have been setup, for Project Coordinators (PC), Technical Managers (TM) and Comms group participants. As the actual establishment and inauguration of the SB and TB required a critical mass of projects having signed the SNS Collaboration Agreement, two initial and informal telcos have been organised with the project coordinators on 13/03/23 and 12/05/23. The Comms Group instead – not having to wait for projects having signed the SNS Collaboration Agreement – commenced its activity already in February 2023.

In parallel, preparations for providing a suitable document repository have started with installing a BSCW v7 server. Part of the task here was then to investigate and identify a suitable system for providing access for the SNS projects, the SB, TB, Comms, the various Working Groups (WGs) to be setup, and more groups as necessary. The aim was to find the right level of granularity between individual user accounts and group accounts, to ensure correct access management, individual identity and traceability but on the other hand to remain manageable and achieves a good cost/benefit ratio also in terms of software licence costs.

With the progress of project participants in signing the Collaboration Agreement, the preparations for

⁴ <https://smart-networks.europa.eu/sns-ju-working-groups/>

⁵ <https://6g-ia.eu/6g-ia-working-groups/>

⁶ <https://smart-networks.europa.eu/csa-s/#SNS-OPS>

an SB kickoff meeting have been started in June 2023. As one of the first actions, the kickoff meeting date has been agreed (05/09/23), a host has been identified / a venue was chosen (Athens), and a draft agenda has been prepared and discussed with the projects. As the intention was to get SNS projects quickly involved in WG activities, interactions with WG Chairs have been started to ensure they can present at the SB kickoff meeting either in person or remotely.

3.2 SB meeting #1: 05/09/23 – Inauguration meeting in Athens

The kickoff meeting of the SNS-I SB has been organised in Athens as a full day meeting kindly hosted by SPACE Hellas. The main purpose was to introduce the projects to the SB activities and their potential contribution to the joint activities in the SNS JU. Given that a Chair of the SB had not been elected yet, Colin Willcock as Chairman of the 6G-IA Board had agreed to chair this meeting.

After the welcome, checking of participants and approval of the agenda, all project coordinators gave a short one-slide presentation to introduce their project and themselves. Following that, Colin Willcock gave some information of the latest status of SNS JU – past activities and plans. Colin reminded that SNS-JU is a Collaborative Program and not just a series of independent Research Projects.

Following this, Uwe Herzog from SNS OPS presented a proposal for the Terms of Reference (ToR) of the SNS SB. The foundation is laid in SNS Collaboration Agreement, section 3 „Governance“, but the SB is to agree upon the internal regulation (i.e. the ToR), dealing with its internal organization and procedures, all to be carried out taking into account the key principles and other terms of the CA. A few comments were made by SB members which have been taken into account in the subsequent drafting of the full written SB ToR. After that Uwe presented a proposal for the process of electing the SB Chair and Vice Chair, which has been approved by the SB.



Figure 3: SB project meeting in Athens on 05/09/23

The next part of the meeting looked at the Working Groups in SNS JU. Colin gave an overview of the 3 classes of SNS Working Groups: SNS Industry WG, SNS Project WG, and SNS Strategic WGs. Of most relevance to the SB is the class of SNS Project WG as they are under the supervision of the SNS SB. In order to speed up the kickoff of Project WGs, Colin suggested to the SB to setup 3 Project WGs that have already been active in 5G PPP– to which the SB gave its approval. Following that, an overview of the 6G-IA WGs has been presented by each of the WG Chairs respectively, inviting the projects to consider participation in these WGs.

In the following slot, the potential cooperation between SNS Stream A/B/D and Stream C projects has been discussed. Stream C projects – according to a requirement on stream C projects in the SNS Work Programme – are to offer to projects of other streams the use of their facilities to execute experiments. The 3 Stream C project gave an overview presentation of their facilities and terms and condition of their use.

In the last part of the meeting there was a presentation and discussion on events, and projects were invited to discuss and make proposals on how SNS JU can contribute and have presence and visibility at future international events.

3.3 SB meeting #2: 27/10/23 – telco

This meeting was organised as a 2-hour web conference. Given the shorter amount of time available for these web-conferences the focus was on giving brief updates, sharing news and discussing the necessary coordination and joint actions.

After the welcome, checking of participants and approval of the agenda, Uwe Herzog from SNS OPS presented the draft SB ToR, showing the Word document and explaining the purpose and meaning of the items in its content. A number of comments were made that were noted in the document. These would be addressed in the revision of the SB ToR which are then the final draft for obtaining approval from the SB.

The TB Chair gave an overview of the status and initial plans for the ramp up of TB activities. The next TB meeting had already been scheduled as a telco on 30/10/23 at which among others the TB mode of operation and the initial targets would be discussed. The TB ToR were already under preparation.

In the next slot several of the WG Chairs gave an update on status and planning. Two of the planned project WGs – the 6G Architecture WG and the Test, Measurement and KPI Validation (TMV) WG had already started with the preparations for their setup. Also, a couple of 6G-IA WGs gave an update on their activities.

In this SB meeting for the first time the newly founded Task Force (TF) on Open Calls reported on its first activities. The purpose of the TF is to coordinate Open Call related actions among projects that organise Open Calls. This is on a voluntary basis and with non-committing character. A first meeting has been organised on 26/10/23. It is planned to prepare a methodology for handling the process, e.g. for ensuring that all costs are eligible and will be accepted by the EU.

Following that, the 6G-IA representative briefed about liaisons of SNS JU with other regions or verticals, following a request made at the SB kickoff meeting in Athens.

As the meeting time had already been nearly consumed some of the further planned agenda items have been skipped and postponed to the next SB meeting which will be hosted by UC3M in Madrid.

3.4 SB meeting #3: 29/11/23 – Madrid

This meeting was again organised in f2f format and a dense agenda had been planned. The meeting started as usually with the checking of participants, approval of the agenda and the review of the action items list which is under the responsibility of SNS OPS.

In the first main agenda item Uwe Herzog gave an overview of the status of approval of the SB ToR. The full draft of the ToR that had been presented in the previous meeting has been revised, reflecting the discussion and agreements in the previous meeting and other comments received. A final draft has been prepared and distributed to SB on 31/10/23 for approval within 3 weeks, i.e. by 21/11/23. By the deadline the majority of projects had responded and all responses have stated that the ToR are approved, so therefore the ToR are now approved and valid.

Following that the TB Chair reported about TB activities: The kickoff of the TB was organised with a telco on 30/10/23 in which the modus operandi and several targets and activities were discussed, including the heritage figure, the reference figure, the Trials& Pilots brochure, Key achievements, etc. A proposal to create a central list of project representatives in the various bodies and WGs in the SNS-Initiative has been agreed. This would be an Excel file where projects can enter their representatives and make updates when there are changes. A Sustainability TF has been setup under the TB, with the goal of aligning the SNS projects' work on sustainability. Additionally, alignment with Hexa-X-II and the SNVC WG on sustainability will be sought out.

In this meeting the Task Force (TF) on Open Calls again reported on its progress. Seven projects are

currently participating but further projects from Call 2 will be invited. The ultimate goal is to create a living document in which lessons learnt from organising Open Calls will be collected. Topics addressed include e.g. the eligibility of partners, avoiding double funding, ensure sufficient resources are available (operational capacity), etc.



Figure 4: SB project meeting in Madrid on 29/11/23

Following a brief report about SNS liaisons with other regions or verticals, many of the SNS-I Projects-WGs and 6G-IA WGs reported about their activities. The 5G Architecture WG and the TMV WG have made good progress for their setup and the inauguration meeting has been planned for December 2023 and January 2024 respectively. The setup of the Software networks WG has not progressed yet as the person who chaired the WG in 5G PPP is no longer available for this task, and the projects were thus asked to consider offering someone who could take on the role of the WG Chair. The Trials WG informed that the Trials & Pilots Brochure #4 has been issued just on the date of this SB meeting.

The SB Chair then informed that an overview document will be prepared by the SB/TB Chairs and SNS OPS that will describe what groups exist in SNS, who the contact persons are, where to find further information, how to join etc. In addition, a calendar will be setup to keep track of upcoming events. This was followed by a brief review of future events and a discussion about a coordinated proposal for a joint workshop organised by SNS projects at EuCNC'24.

With some announcements from SB members and the agreement of the schedule of next SB meetings the meeting was concluded.

3.5 SB documentation repository

All the agendas, minutes and other supporting documents of the SNS-I SB meetings are stored in the SNS JU BSCW document repository where they can be accessed by all beneficiaries of the SNS-Initiative. Reference documents and slides used in the meetings, when available, are also there. Figure 5 shows a snapshot from the SNS JU SB BSCW space.

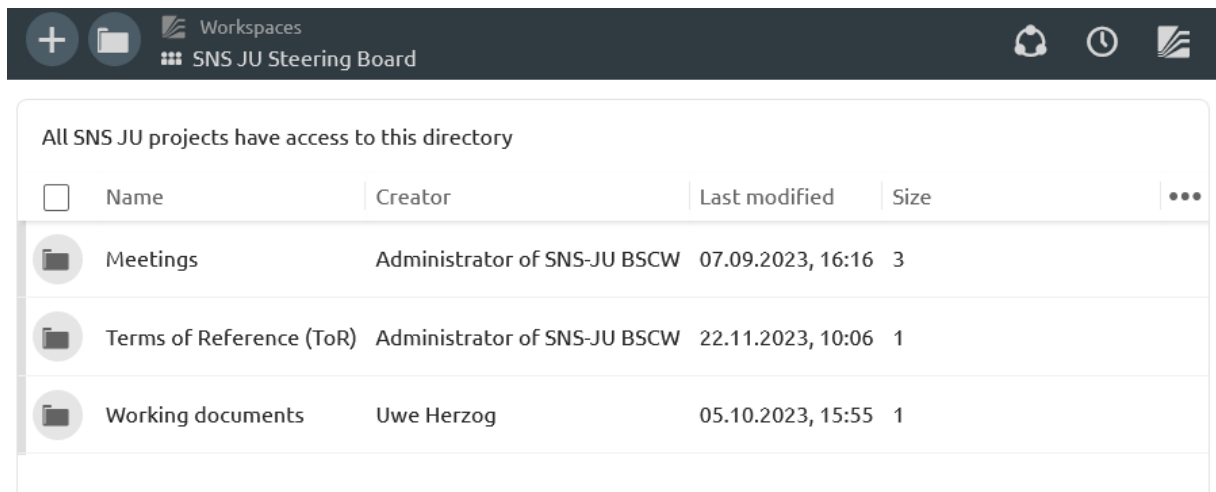


Figure 5: Screenshot of the SNS JU BSCW – SB space

4 Supporting the SNS-I Technology Board

The SNS-OPS project provides support to the actions of the SNS JU Technology Board (TB). The TB is supported by an email exploder list to distribute communications to all members, an BSCW platform repository to store and share relevant documents with all members, and web conference meeting tool in the form of Webex. It should be made clear, only the project representatives who have signed the Collaboration Agreement have access rights to those above-mentioned resources.

In the period covered by this Deliverable (January 2023 – January 2024), four TB Telco meetings were held. Since it was the set-up phase of the TB, the major focus of the meetings was on setting up the TB meeting series electing the TB chair and discussing and agreeing on the TB work plan and its work items.

In the following subsections, key highlights from these TB set-up meetings are outlined. The highlights provided do not represent all points addressed during these meetings, and many of the actions did progress continuously beyond one single meeting.

4.1 Setup of the SNS-I TB

The inaugural TB meeting has been organised with the SNS projects technical managers on 22nd September 2023. This was an online meeting, organized by Arda Güreller from Ericsson since Ericsson is the task leader of SNS OPS T3.2 SNS JU Technology Board. The main scope of this task is to support the activities of the SNS initiative Technology Board (TB) which consists of representatives from all running SNS projects (Technical Managers or proxies). The agenda of this meeting was the following:

- Welcoming
- Information sharing and discussion about the TB Ways of Working (WoW)
- Introduction of Terms of Reference (ToR) Document draft
- Election Process (Discussion on the election of the Chairperson)
- Decision for the next TB meeting date / place

In this meeting there were around 25 project Technical Manager and one 6G-IA representative. The draft Terms of Reference (ToR) Document and the Election Process for the election of the Chairperson was introduced to the participants. The Meeting minutes have been uploaded to the BSCW online area. After this meeting, the next TB meeting was scheduled on 30th of October 2023. For this meeting the target was to introduce the elected Chair and Vice-Chair.

The Call for candidates for the SNS TB Chair- and Vice-chair was issued on 26th of September 2023. A period of 2 weeks was provided until 11th of October 2023 to TB members to propose their candidates. Only one candidature has been received: Konstantinos (Kostas) Trichias from 6G-IA. He has been nominated from the 6G-IA and SNS-ICE project. After the deadline the TB members have been informed and asked if they have any objection to this candidacy - no objections were received. On 23rd October a confirmation that Konstantinos (Kostas) Trichias from 6G-IA is officially elected as SNS JU TB Chair for one year has been communicated to the TB members.

4.2 TB meeting #1 – Telco (30/10/2023)

The 1st meeting with the elected chairman was held on October 30th 2023. The participation was good, as 29 project representatives took part (out of 33 projects). The focus of this meeting was mostly on establishing the TB mode of operation (How, What, When, Who). It was agreed by all participants that a 4-week cycle for the regular TB telcos will be maintained. The series was agreed to start on Tuesday 12/12/2023. The TB members agreed to target 2 Physical meetings per year. Where possible, the TB physical meetings will collocate with SB meetings or other major events. F2F meetings will be maintained as Physical meetings only for the most part, to stimulate productive work sessions. The discussions covered in the meeting can be summarized as follows:

- Heritage Figure - Wait for more projects to join the TB.
- Reference Figure - Start working on a new Reference Figure for Phase 1 projects.
- Trials & Pilots Brochure - Too early to engage as there are no mature T&Ps yet.
- Key Achievements - A bigger mass of projects would be needed to make this impactful
- Vertical Engagement Tracker - Former Vertical Cartography, input from all projects needed, before making the tool public.
- Other engagements
 - Standards Tracker
 - White papers & webinars
 - Overview of WG participation per project:
 - Sustainability Task Force (TF)

4.3 TB meeting #2 – Telco (12/12/2023)

The second TB meeting took place in virtual format on 12th December 2023, 14:00 – 15:30 CET. There were 46 participants from 27 projects. The meeting was coordinated by the chair and the agenda of the meeting was approved by all participants. Open actions from the previous meeting have been reviewed and status updated.

- The TB Chair gave an update from the previous SB f2f meeting that took place on November 29th in Madrid Spain. The main topics mentioned were:
 - Clarifications on SNS WGs were requested,
 - New Chair is needed for the Reliable Software Networks WG,
 - A new Hardware WG was proposed,
 - An update on the Open Calls Task Force was provided,
 - SNS WG Status shared.
- Uwe Herzog shared the updated TB Terms of Reference (ToR). Uwe presented the process and the key directions for the SNS TB ToR. A first draft is expected to be ready within December. TB members will be invited to review it once it is available.
- After that Mohammed Al-Rawi provided an update regarding the Reference Figure. A suggested way forward and the proposed next steps were presented. The target end date for the publication of the Reference Figure was set for Q1 2024 (31/03/2023).
- Ali Rezaki (the nominated Sustainability TF chair) provided clarifications with regards to the Sustainability Task Force (TF) status. A first draft of the TF mission statement, goals, targeted outcomes and timeline will be prepared. Common file to collect interested partners contact details to form the sustainability working team will be created. All TMs will align within their projects and nominate their representatives to the Sustainability TF, in the above-mentioned file.
- Other Potential Task Force suggestions were discussed by the all participants. Based on existing developments, the TB agreed that no more TFs should be formed at this moment.
- 6G-SANDBOX project reminded Stream A/B projects to use their facilities to test and validate their technology.
- Information sharing on events, based on information from the SB.

4.4 TB meeting #3 – Telco (09/01/2024)

The third TB meeting took place virtually on the 9th of January 2024. There were 45 participants from

33 projects. The meeting was coordinated by the chair; the agenda of the meeting was approved by all participants. Open actions from the previous meeting have been reviewed and status updated. Four open actions were completed and there are 4 more open actions that were ongoing.

Uwe Herzog provided a status update regarding to TB Terms of Reference (ToR) document. No objections received. First full draft is in preparation, and it should be ready shortly. All TB members will be invited to provide feedback for the 1st draft of the SNS TB Terms of Reference (ToR) document.

A first proposal for the Reference Figure Structure was presented by Kostas Trichias and Mohammed Al Rawi. The goal of the structure is to suggest a workable project split and to suggest the topics to be included. All TB members are expected to review the draft Proposal for the Reference Figure.

The Sustainability TF chair provided a status update on the agreed Action Points for the Sustainability Task Force (TF). An excel sheet is created to sign-up for the Sustainability TF team. Draft TF description document has been shared with the participants to review.

Claudio De Majo presented the Vertical Engagement Tracker tool & the status of inputs. He has requested additional inputs, as it is needed to reach a critical mass of Use Cases.

The TB chair talked about EuCNC 2024 project plans where will take place in Antwerp, Belgium in 2024. A common file to record intentions from projects is created. Up to now, 4 sessions/WS have been recorded in the common file. It is expected by all TB members to provide input regarding to planned EuCNC 2024 proposals (sessions, workshops, etc.) to help plan SNS presence.

Input collection for 2023 Q2 SDO Impact Report has started from the Pre-Standardization WG. Template has been circulated by the Pre-Standardization WG chairman (reminder sent by SB chairman) The input deadline has been 16 January 2024.

4.5 TB documentation repository

All the agendas, minutes and other supporting documents of the SNS-I TB meetings are stored in the SNS JU BSCW document repository where they can be accessed by all beneficiaries of the SNS-Initiative. Reference documents and slides used in the meetings, when available, are also there. Figure 6 shows a snapshot from the SNS JU TB BSCW space.

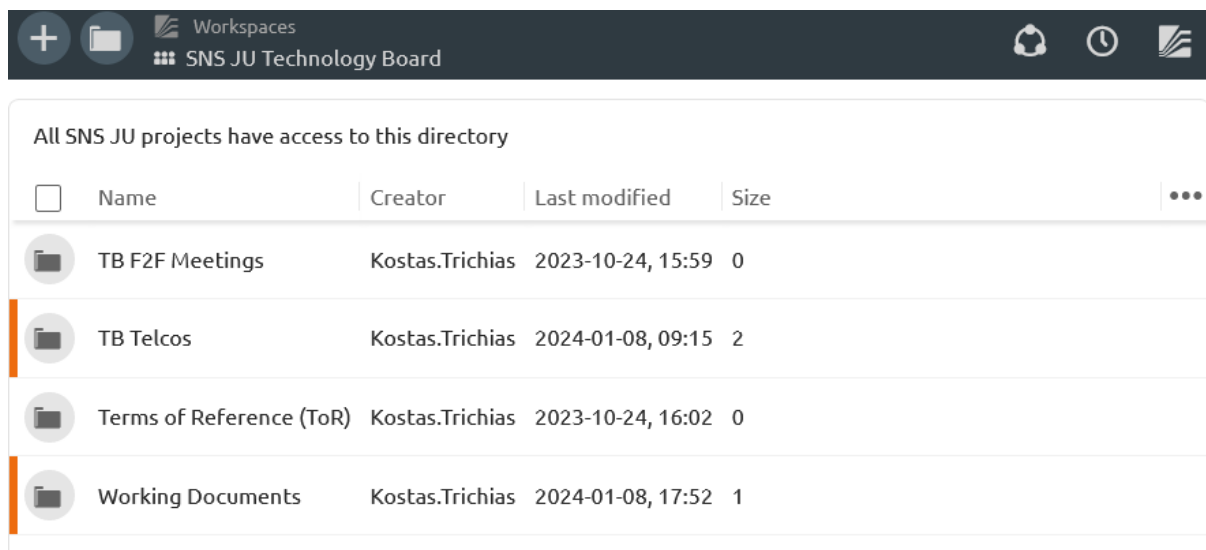


Figure 6: Screenshot of the SNS JU BSCW – TB space

5 Conclusions

In its first year SNS OPS has been busy with initiating and organising as well as supporting the collaborative activities in the SNS-I.

SNS OPS has supported the preparation and adoption of an SNS Collaboration Agreement and organised its signing. SNS OPS ensured that all 279 parties that participate in the SNS Call 1 projects have signed it, and collected all signatures.

Looking towards the future, 27 new projects from Call 2 have started in January 2024, and SNS OPS will again take care of disseminating the SNS Collaboration Agreement to these projects and take care of it is being signed by all parties. In parallel, SNS OPS will support the amendment of the SNS Collaboration Agreement that became necessary due to the re-interpretation of some key definitions by the European Commission.

In addition, SNS OPS has organised the setup of the SNS-I SB and TB, has organised their kickoff meetings, organised the election of the SB and TB Chairs, has taken care of preparing the ToR of these bodies, and provided various secretarial- meeting- and tool support.

After the SNS OPS activities in 2023 have been characterised by setting up the collaborative bodies and supporting the launch of their activities, in 2024 the activities of the SB and TB are expected to go into the operational, productive mode. SNS OPS will support these activities as started in 2023 and will also address any additional need or requirement that might come up.

All SNS OPS activities in above areas have been successfully completed and all goals for the period have been achieved.

Appendix A List of organisations that acceded to the SNS JU Collaboration Agreement

The SNS JU Collaboration Agreement was concluded between 279 parties by the end of 2023.

Participant Legal Name	Country Code	Participant PIC
CHALMERS TEKNISKA HOGSKOLA AB	SE	999980373
ERICSSON AB	SE	999910921
HUBER + SUHNER AG	CH	899292045
INFINEON TECHNOLOGIES AG	DE	999978918
INFINEON TECHNOLOGIES AUSTRIA AG	AT	999705087
KATHOLIEKE UNIVERSITEIT LEUVEN	BE	999991334
LINKOPINGS UNIVERSITET	SE	999852236
TECHNIKON FORSCHUNGS- UND PLANUNGSGESELLSCHAFT MBH	AT	999761735
LUNDS UNIVERSITET	SE	999901318
6G SMART NETWORKS AND SERVICES INDUSTRY ASSOCIATION	BE	935632513
EIGHT BELLS LTD	CY	917066131
AALBORG UNIVERSITET	DK	999904034
AALTO KORKEAKOULUSAATIO SR	FI	991256096
ACCELLERAN	BE	942650075
ACST GMBH	DE	990879833
AIRBUS DS SLC	FR	920862323
ADVA OPTICAL NETWORKING SE	DE	999811787
AETNA GROUP SPA	IT	919579595
ATHENS INTERNATIONAL AIRPORT S.A.	EL	999484994
ALTICE LABS SA	PT	999911503
ANTERAL SL	ES	957946490
APPART AE NEW TECHNOLOGIES COMPUTER AND TELECOMMUNICATIONS	EL	941424286
APPLE TECHNOLOGY ENGINEERING BV & CO KG	DE	886995549
ARCELIK A.S.	TR	998821708
ARM LIMITED	UK	999813824
ATHONET SRL	IT	942321342
ATOS IT SOLUTIONS AND SERVICES IBERIA SL	ES	952979120
ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS - RESEARCH CENTER	EL	999896856
MTU AUSTRALO ALPHA LAB	EE	889769167

Participant Legal Name	Country Code	Participant PIC
ARISTOTELIO PANEPISTIMIO THESSALONIKIS	EL	999895692
AVANTI HYLAS 2 CYPRUS LIMITED	CY	956158392
ADVANCED WIRELESS SOLUTIONS AND SERVICES (AW2S)	FR	895626609
B&R INDUSTRIAL AUTOMATION GMBH	AT	970686470
BARKHAUSEN INSTITUT GGMBH	DE	897336040
BI2S-BUSINESS AND IOT INTEGRATED SOLUTIONS LTD	CY	905804819
BI-REX- BIG DATA INNOVATION RESEARCH EXCELLENCE	IT	903031783
ROBERT BOSCH GMBH	DE	999908787
BRAINSTORM MULTIMEDIA SL	ES	999441732
BARCELONA SUPERCOMPUTING CENTER CENTRO NACIONAL DE SUPERCOMPUTACION	ES	999655520
BRITISH TELECOMMUNICATIONS PLC	UK	999908593
COLLINS AEROSPACE IRELAND, LIMITED	IE	971136162
CAFA TECH OU	EE	907711936
CAPGEMINI PORTUGAL SA	PT	920077981
Construction Robotics GmbH	DE	889313655
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	FR	999992401
ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	EL	998802502
ALTRAN INNOVACION SL / CAP GEMINI 886141852	ES	950049041
CUMUCORE OY	FI	923625077
CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI	IT	999649603
CONSIGLIO NAZIONALE DELLE RICERCHE	IT	999979500
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	FR	999997930
COGNITIVE INNOVATIONS PRIVATE COMPANY	EL	915396955
COSMOTE KINTES TILEPIKOINONIES MONOPROSOPI AE	EL	999654550
COMUNE DI TORINO	IT	986538792
CONSORZIO PER LA RICERCA NELL' AUTOMATICA E NELLE TELECOMUNICAZIONI C.R.A.T.	IT	999655229
CROSSMEDIA BELGIQUE	BE	886703094
CENTRE TECNOLOGIC DE TELECOMUNICACIONS DE CATALUNYA	ES	999638739
CYENS CENTRE OF EXCELLENCE	CY	906763761
DIGITAL FOR PLANET-D4P	CH	897171237
DIMOS ATHINAION EPICHEIRISI MICHANOGRAFISIS	EL	991350089
DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV	DE	999981731

Participant Legal Name	Country Code	Participant PIC
DRAXIS ENVIRONMENTAL SA	EL	996151686
EBOS TECHNOLOGIES LIMITED	CY	997848022
ERICSSON ARASTIRMA GELISTIRME VE BILISIM HIZMETLERI ANONIM SIRKETI	TR	950341108
ERICSSON GMBH	DE	999944386
EFACEC ENGENHARIA E SISTEMAS SA	PT	971832428
EMC INFORMATION SYSTEMS INTERNATIONAL UNLIMITED COMPANY	IE	959978349
EKTACOM	FR	951474359
EOTVOS LORAND TUDOMANYEGYETEM	HU	999896468
ERICSSON ESPANA SA	ES	999941088
ERICSSON FRANCE	FR	895532034
ERICSSON MAGYARORSZAG KOMMUNIKACIOS RENDSZEREK KFT	HU	999944289
EUROPEAN ROAD TRANSPORT TELEMATICS IMPLEMENTATION COORDINATION ORGANISATION - INTELLIGENT TRANSPORT SYSTEMS & SERVICES EUROPE	BE	999785112
EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH	CH	999979015
EURECOM GIE	FR	999606147
EURESCOM-EUROPEAN INSTITUTE FOR RESEARCH AND STRATEGIC STUDIES IN TELECOMMUNICATIONS GMBH	DE	999912279
FRIEDRICH-ALEXANDER-UNIVERSITAET ERLANGEN-NUERNBERG	DE	999995408
FUNDINGBOX ACCELERATOR SP ZOO	PL	951227688
FUNDINGBOX COMMUNITIES SL	ES	911373783
FORSVARETS FORSKNINGINSTITUTT	NO	999789574
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV	DE	999984059
5G COMMUNICATIONS FOR FUTURE INDUSTRY VERTICALS SL	ES	896973745
FOGUS INNOVATIONS & SERVICES P.C.	EL	917691296
IDRYMA TECHNOLOGIAS KAI EREVNAS	EL	999995893
FUNDACION DE LA COMUNIDAD VALENCIANA PARA LA INVESTIGACION, PROMOCION Y ESTUDIOS COMERCIALES DE VALENCIAPORT	ES	998709188
GESTAMP SERVICIOS SA	ES	924115703
GIGASYS SOLUTIONS LTD	UK	900272618
GREENERWAVE	FR	903463821
GROUND TRANSPORTATION SYSTEMS ITALIA SRL	IT	885746674

Participant Legal Name	Country Code	Participant PIC
HUBER+SUHNER POLATIS LIMITED	UK	985958053
HIRO MICRODATACENTERS B.V.	NL	904044463
HOLO-INDUSTRIE 4.0 SOFTWARE GMBH	DE	905786486
HISPASAT SA	ES	999784530
THE HEBREW UNIVERSITY OF JERUSALEM	IL	999975038
HUAWEI TECHNOLOGIES DUESSELDORF GMBH	DE	996543275
FUNDACIO PRIVADA I2CAT, INTERNET I INNOVACIO DIGITAL A CATALUNYA	ES	999583061
INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS	EL	999654356
INTRACOM SA TELECOM SOLUTIONS	EL	999969994
INLECOM COMMERCIAL PATHWAYS COMPANY LIMITED BY GUARANTEE	IE	893373008
ICTFICIAL OY	FI	894353969
SAS IDATE	FR	887114665
INTERDIGITAL EUROPE LTD	UK	950635891
INTERDIGITAL R&D FRANCE	FR	898815096
IDIADA AUTOMOTIVE TECHNOLOGY SA	ES	999788313
IHP GMBH - INNOVATIONS FOR HIGH PERFORMANCE MICROELECTRONICS/LEIBNIZ-INSTITUT FUER INNOVATIVE MIKROELEKTRONIK	DE	999606438
FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA	IT	999596447
INSTITUT JOZEF STEFAN	SI	999971837
FUNDACION IMDEA SOFTWARE	ES	998520426
INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM	BE	999981149
STICHTING IMEC NEDERLAND	NL	999577144
INESC TEC - INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA	PT	999513706
INFOLYSIS P.C.	EL	915352141
CORIAN R&D GMBH	DE	953414165
INFILI TECHNOLOGIES SOCIETE ANONYME	EL	932053019
INFINERA UNIPessoal LDA	PT	943750734
INTERNET INSTITUTE, COMMUNICATIONS SOLUTIONS AND CONSULTING LTD	SI	946634059
INNOCUBE I.K.E.	EL	891624486
INTEL DEUTSCHLAND GMBH	DE	967538432
NETCOMPANY-INTRASOFT SA	LU	999702371
INSTITUTO POLITECNICO DO PORTO	PT	991473861
IQUADRAT INFORMATICA SL	ES	996237822

Participant Legal Name	Country Code	Participant PIC
ATHINA-EREVNITIKO KENTRO KAINOTOMIAS STIS TECHNOLOGIES TIS PLIROFORIAS, TON EPIKOINONION KAI TIS GNOSIS	EL	999562788
ISRD SP Z O.O.	PL	889804087
INSTITUTO DE TELECOMUNICACOES	PT	999580248
ITALTEL SPA	IT	886601147
IUVO SRL	IT	929242056
K3Y	BG	905140563
KING'S COLLEGE LONDON	UK	999981052
KEYSIGHT TECHNOLOGIES BELGIUM	BE	939097256
KEYSIGHT TECHNOLOGIES DENMARK APS	DK	939084937
KEYSIGHT TECHNOLOGIES SPAIN SL	ES	919967692
KEYSIGHT TECHNOLOGIES FINLAND OY	FI	955188295
KUNGLIGA TEKNISKA HOEGSKOLAN	SE	999990946
LIGHTBEE SL	ES	934490144
LIONIX INTERNATIONAL BV	NL	918272908
OY L M ERICSSON AB	FI	999942931
L.M. ERICSSON LIMITED	IE	999946326
LENOVO DEUTSCHLAND GMBH	DE	917812643
LULEA TEKNISKA UNIVERSITET	SE	999876874
MARTEL GMBH	CH	999695387
MARPOSS SOCIETA PER AZIONI	IT	899722046
MATSUKO S.R.O	SK	929824832
MITSUBISHI ELECTRIC EUROPE BV	NL	930203423
MONTIMAGE EURL	FR	999716242
METAMIND INNOVATIONS IKE	EL	889264185
MELLANOX TECHNOLOGIES LTD - MLNX	IL	990560024
MARPOSS MONITORING SOLUTIONS GMBH	DE	953485945
MPICOSYS - EMBEDDED PICO SYSTEMS SPZOO	PL	985206400
NEARBY COMPUTING SL	ES	904712502
NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	EL	999978239
NEC LABORATORIES EUROPE GMBH	DE	910561893
NET AI TECH LTD	UK	888921193
NEUTROON TECHNOLOGIES SL	ES	891810241
NATIONAL INSTRUMENTS DRESDEN GMBH	DE	974894427
ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON	EL	999643007

Participant Legal Name	Country Code	Participant PIC
NOKIA NETWORKS FRANCE	FR	950760051
NOKIA SOLUTIONS AND NETWORKS KFT	HU	996375562
NOKIA SOLUTIONS AND NETWORKS OY	FI	999925471
NOKIA DENMARK AS	DK	996116087
NOKIA SPAIN SA	ES	999806064
NOVA TELECOMMUNICATIONS SINGLE MEMBER SA	EL	985390312
NOVA ID FCT - ASSOCIACAO PARA A INOVACAO E DESENVOLVIMENTO DA FCT	PT	937405091
NOKIA SOLUTIONS AND NETWORKS GMBH &CO KG	DE	999940603
NUBIS IDIOTIKI KEFALAIOUCHIKI ETAIRIA	EL	895483825
NVIDIA GmbH	DE	919708508
NXP SEMICONDUCTORS GERMANY GMBH	DE	996753474
NEXTWORKS	IT	996613600
OCULAVIS GMBH	DE	916491988
OPENNEBULA SYSTEMS SL	ES	969580476
ONE SOURCE CONSULTORIA INFORMATICA LDA	PT	968818347
One Reality	SE	887031730
ORANGE POLSKA SPOLKA AKCYJNA	PL	999951079
OPSYS SENSING TECHNOLOGIES LTD	IL	888933027
OPTARE SOLUTIONS SL	ES	955546225
ORANGE SA	FR	999908981
ORAMAVR SA	CH	893482230
ORANGE ROMANIA SA	RO	954892445
ORGANISMOS TILEPIKOINONION TIS ELLADOS OTE AE	EL	999792581
OULUN YLIOPISTO	FI	999844670
BOREAL TECHNOLOGY AND INVESTMENTS SL	ES	890932682
PHIX BV	NL	907680217
PICADVANCED, SA	PT	934950215
PROMOZIONE PER L INNOVAZIONE FRA INDUSTRIA E UNIVERSITA ASSOCIAZIONE	IT	972458175
P-NET ANADYOMENA DIKTYA NEAS GENIAS & EFARMOGES IDIOTIKI KEFALAIOUCHIKI ETAIREIA	EL	887635749
POLARITON TECHNOLOGIES AG	CH	901228262
POLITECNICO DI TORINO	IT	999977754
PROSEGUR GLOBAL SIS ROW SL	ES	884613714
PUBLIC SAFETY COMMUNICATION EUROPE FORUM AISBL	BE	984488212
PARALLEL WIRELESS ISRAEL LTD	IL	885314539

Participant Legal Name	Country Code	Participant PIC
QUALCOMM France (formaly QUALCOMM COMMUNICATIONS SARL PIC 887059860)	FR	883340492
QUALCOMM CDMA TECHNOLOGIES GMBH	DE	996457430
QAMCOM RESEARCH AND TECHNOLOGY AB	SE	957254007
THE QUEEN'S UNIVERSITY OF BELFAST	UK	999992013
RAYTRIX GMBH	DE	942467521
RUNEL NGMT LTD	IL	934564543
RHEA SYSTEM	BE	987472029
RHEA SYSTEM LUXEMBOURG SA	LU	892309403
REAL WIRELESS LIMITED	UK	935339282
RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN	DE	999983962
SUITE5 DATA INTELLIGENCE SOLUTIONS LIMITED	CY	910462080
SILICON AUSTRIA LABS GMBH	AT	901837907
SIEMENS AKTIENGESELLSCHAFT OESTERREICH	AT	999953601
SEQUANS COMMUNICATIONS SA	FR	999687821
SES TECHCOM SA	LU	999584419
SOUTH EAST TECHNOLOGICAL UNIVERSITY	IE	886107126
SIDROCO HOLDINGS LIMITED	CY	912316332
SIEMENS AKTIENGESELLSCHAFT	DE	999987260
SOFTWARE IMAGINATION & VISION SRL	RO	897024185
SATELIO IOT SERVICES, SL	ES	899480904
SIEMENS INDUSTRY SOFTWARE OY	FI	888040530
SMILE	FR	904841221
SONY EUROPE BV	NL	899858913
SPACE HELLAS ANONYMI ETAIREIA SYSTIMATA KAI YPIRESIES TILEPIKOINONIONPLIROFORIKIS ASFALIAS - IDIOTIKI EPICHEIRISI PAROCHIS YPERISION ASFA	EL	999778322
SOFTWARE RADIO SYSTEMS LIMITED	IE	937177723
SAMSUNG ELECTRONICS (UK) LIMITED	UK	999765712
SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO S ANNA	IT	999884731
SPHYNX TECHNOLOGY SOLUTIONS AG	CH	916839248
SATWAYS-OLOKLIROMENES LYSEIS ASFALIAS KAI AMYNAS-IDIOTIKI EPICHEIRISI PAROCHIS YPIRESION ASFALIAS (IEPYA)-ETAIREIA PERIORISMENIS EFTHYNIS	EL	987804060
SYNTHARA AG	CH	899425517
THALES ALENIA SPACE FRANCE SAS	FR	999908205

Participant Legal Name	Country Code	Participant PIC
THALES ALENIA SPACE LUXEMBOURG	LU	891665420
THALES ALENIA SPACE UK LTD	UK	936556147
TURKCELL TEKNOLOJI ARASTIRMA VE GELISTIRME ANONIM SIRKETI	TR	935067391
THALES DIS FRANCE SAS	FR	890652158
FUNDACION TECNALIA RESEARCH & INNOVATION	ES	999604110
ERICSSON TELECOMUNICAZIONI SPA	IT	996447342
Telit Cinterion Deutschland GmbH	DE	954516279
THALES SIX GTS FRANCE SAS	FR	999971934
TELEFONICA INVESTIGACION Y DESARROLLO SA	ES	999910824
TELECOM ITALIA SPA	IT	999908496
NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	NL	999988909
TELENOR ASA	NO	999910630
TRUST-IT SRL	IT	906664821
TELEFONICA SA	ES	997255837
TAGES	FR	900534227
TECHNISCHE UNIVERSITAET BRAUNSCHWEIG	DE	999861257
TECHNISCHE UNIVERSITAET DRESDEN	DE	999897729
TECHNISCHE UNIVERSITEIT EINDHOVEN	NL	999977269
TECHNISCHE UNIVERSITAET GRAZ	AT	999977948
UNIVERSITATEA TEHNICA GHEORGHE ASACHI DIN IASI	RO	999853303
TECHNISCHE UNIVERSITAT KAISERSLAUTERN	DE	999885895
UNIVERSITY OF BRISTOL	UK	999974262
GIOUMPITEK MELETI SCHEDIASMOS YLOPOIISI KAI POLISI ERGON PLIROFORIKIS ETAIREIA PERIORISMENIS EFTHYNIS	EL	985034419
UBITECH LIMITED	CY	926362126
UBIWHERE LDA	PT	991811906
UNIVERSIDAD CARLOS III DE MADRID	ES	999899572
UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN	IE	999974359
UNIVERSIDAD COMPLUTENSE DE MADRID	ES	999874546
THE UNIVERSITY OF HERTFORDSHIRE HIGHER EDUCATION CORPORATION	UK	999911115
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UNIVERSIDAD MIGUEL HERNANDEZ DE ELCHE	ES	999851363

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ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA	IT	999993953
UNIVERSITY OF SURREY	UK	999985223
PANEPISTIMIO PATRON	EL	999894528
PANEPISTIMIO DYTIKIS MAKEDONIAS	EL	986185518
UNIVERSITAT POLITECNICA DE CATALUNYA	ES	999976202
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UNIVERSITY OF PIRAEUS RESEARCH CENTER	EL	999586941
UNIVERSITAT POLITECNICA DE VALENCIA	ES	999864846
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UNIVERSITEIT VAN AMSTERDAM	NL	999985708
ULTRAVIOLET CONSULT DOO	RS	889724062
UNIVERSITY OF THE WEST OF SCOTLAND	UK	999589657
VALSTS AKCIJU SABIEDRIBA ELEKTRONISKIE SAKARI	LV	898187700
Vodafone Group Services GmbH	DE	991001956
FUNDACION CENTRO DE TECNOLOGIAS DE INTERACCION VISUAL Y COMUNICACIONES VICOMTECH	ES	955552336
VIVID COMPONENTS GERMANY UG	DE	887005249
VIRTUAL OPEN SYSTEMS	FR	968966466
VPIPHOTONICS GMBH	DE	950983248
TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	FI	932760440
WAVECOM SOLUCOES RADIO SA	PT	998142708
WEST AQUILA SRL	IT	993174077
WINGS ICT SOLUTIONS INFORMATION & COMMUNICATION TECHNOLOGIES IKE	EL	952269953
YERBA BUENA VR EUROPE SL	ES	910768600
PRIVREDNO DRUSTVO ZENTRIX LAB DRUSTVO SA OGRANICENOM ODGOVORNOSCU PANCEVO	RS	898982906
ZORTENET IDIOTIKI KEFALAIOMUXIKI ETAIREIA	EL	897526936