SNS OPS – Supporting the SNS JU Operations

D3.2: Year 2 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	Pierre-Yves Danet (6G-IA), Per Hjalmar Lehne (Telenor)
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Abstract

This deliverable summarises the activities that were undertaken by SNS OPS in the second period, from February 2024 – January 2025 (12 months), to enable and support 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 support for and the activities of the SNS-I Steering Board (SB) and Technology Board (TB) in the period.

Document revision history

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[1] http://creativecommons.org/licenses/by-nc-nd/3.0/deed.en_US

Executive Summary

This deliverable provides a summary of the activities of SNS OPS from February 2024 to end of January 2025 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)

Activities related to the **SNS JU Collaboration Agreement** have focused in 2024 on the re-adoption of a revised SNS JU Collaboration Agreement (SNS JU COA 2024) by all projects and participants in the SNS JU Projects. This revision became necessary as during 2023 the European Commission had re-interpreted some key definitions which had an impact on the construction of the SNS JU CoA 2024. Specifically, they adopted a new definition of "linked" projects which means it was 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. The alternative to this was to place the SNS JU CoA 2024 participation requirement in Annex 5 of the grant agreement. To facilitate this, a formal reference list of the SNS projects has been created which is being maintained on the SNS website[2] and this can be used as the list of the SNS family of projects that must accede to same SNS Collaboration Agreement. SNS OPS has supported the legal group from the 6G-IA with contributions from the EC legal representatives, to determine exactly what format this updated SNS JU CoA 2024 had to take. The updated SNS Initiative Collaboration Agreement 2024 was formally endorsed by the SNS JU Governing Board (GB) on 26 April 2024.

The projects of Call 1 and Call 2 were informed and asked to sign, involving all 35 projects started under Call 1 and the 28 projects started under Call 2. Significant effort was invested into explaining the need for this change and the implications of the changes made to the updated SNS JU CoA 2024. The support work SNS OPS offered to all the projects in 2024 was personal support in terms of answering any questions on process, answering any questions on legal understandings, etc. By September 2024 well over 90% of the Call 1 and Call 2 participants had acceded to the updated SNS JU CoA 2024. The last couple of signatures were gathered in December 2024 to complete the accession of Call 1 and Call 2 projects except for one project where one partner to date has not signed yet.

In January 2025, 16 new projects from Call 3 of the SNS JU started. It was found that 62% or the organisations involved in Call 3 were already parties to the updated SNS JU CoA 2024. As of January 2025, 7 of the 16 Call 3 projects have already collected their full set of signatures.

Regarding the support of the **SNS-Initiative Steering Board (SB)**, SNS OPS has coordinated and supported the operation of the SB and its activities in the period, and managed its growth in terms of projects represented in the SB. In the course of 2024, the projects from SNS Call 2 were joining the SB, increasing the number of projects that are member of the SB from 35 in January 2024 to 62 in January 2025 which was a strong growth, requiring significant efforts from SNS OPS.

In this period, i.e. from February 2024 to January 2025, six meetings of the SB have been organised by SNS OPS, two were physical Face to Face (f2f) meetings and four were by web-conference. For all these meetings SNS OPS has organised the logistics, drafted the agenda, chaired the meetings and has taken the minutes.

SNS OPS ensures that projects that complete their signatures of the SNS Collaboration Agreement are integrated into the collaborative activities in SNS including the SB, TB, etc. Representatives are added to the various mailing lists and access to the joint document repository is granted. In order to support the "on-boarding" into the joint activities, SNS OPS has organised a webinar on 02/10/2024, to give an introduction to SNS JU and its SB, TB and WG activities, targeting SNS JU Call 2 projects, which about 90 participants attended.

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[2] https://smart-networks.europa.eu/project-portfolio/

Further support activities include the organisation of the election of the SB Chair and Vice-Chair and the review by the SB of the setup and progress of the inter-project Working Groups.

Regarding the support of the **SNS-Initiative Technology Board (TB)**, SNS OPS has coordinated and continued to support the operation of the TB and its activities in the period, and – same as for the SB – managed its growth in terms of projects represented in the TB.

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.

In the period covered by this Deliverable (February 2024 – January 2025), twelve TB Telco meetings were held, in line with the TB Terms of Reference. In addition, and in order to increase the interactions and discussion between the SNS JU projects, face-to-face physical meetings organized in Antwerp, Belgium on 7th of June 2024, and in Castelldefels, Spain on 9th of October 2024. For all these meetings SNS OPS has organised the logistics, drafted the agenda, chaired the meetings and has taken the minutes.

In 2024 the TB with support from SNS OPS has produced significant outputs, including the SNS Projects Reference Figure and a Whitepaper on AI/ML which has recently been shared with the SB before its official release.

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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
f2f	Face-to-face (meetings)
G5GE	Global 5G Event
GB	Governing Board
H2020	Horizon 2020
HE	Horizon Europe
JU	Joint Undertaking
KPI	Key Performance Indicator
MWC	Mobile World Congress
PCG	3GPP Project Coordination Group
PIC	Participant Identification Code
PSM	Pre-Structuring Model
RF	Reference Figure
SB	Steering Board
SDO	Standards Developing Organisation
SNS CO-OP	SNS Collaborative Operations and Output Optimisation CSA
SNS ICE	Smart Networks and Services International and European Cooperation Ecosystem CSA
SNS JU	Smart Networks and Services Joint Undertaking
SNS-I	SNS-Initiative
TB	Technology Board
TF	Task Force

TMV WG	Test, Measurement and KPIs Validation Working Group
ToR	Terms of Reference
VET	Vertical Engagement Tracker
WoW	Ways of Working
WGs	Working Groups
WS	Workshop

1   Introduction

The mandate of the SNS OPS support action is to support and facilitate the operational activities of the SNS-Initiative (SNS-I) which is a part of the 6G SNS JU. 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 (CoA), 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 in the period from 1 February 2024 – 31 January 2025.

While in the previous period the focus of activities has been to create the structure and setup the various bodies and groups in the SNS-Initiative the focus in this period has shifted towards supporting the operation of the established bodies, even though several activities from the setup phase still have been continued. Details on the activities performed by SNS OPS related to the SNS Collaboration Agreement, the Steering Board and the Technology Board are presented in this Deliverable.

Structure of the document

Section 2 explains the work done for the revision of the SNS Collaboration Agreement to its 2024 version, and for getting the participants in all projects to join this SNS JU programme level Collaboration Agreement.

Section 3 indicates the achievements of the SNS-I Steering Board through a description of the overall support activities provided to the SB, which is complemented by summaries of the content of all meetings of the SB. The full minutes are available in the SNS-JU repository for the SB members, as required.

Section 4 indicates the achievements of the SNS-I Technology Board through a description of the overall support activities provided to the TB, which is complemented by summaries of the content of all meetings of the TB. The full minutes are available in the SNS-JU repository for the TB members, as required.

Section 5 provides some conclusions.

2   SNS JU Collaboration Agreement

During 2024, this task has been focused on the re-adoption of a Revised SNS JU Collaboration Agreement (SNS JU CoA 2024) by all projects and participants in the SNS JU Projects.

2.1   Revising the SNS JU Collaboration Agreement 2024

During 2023, the European Commission had re-interpreted some key definitions which had an impact on the construction of the SNS JU CoA 2024. Specifically, they adopted a new definition of "linked" projects which means it was 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.

Another reason for this change was that these articles always require an amendment of all running SNS projects to add a list of new SNS JU projects each time more SNS projects are launched within the JU. This would have needed hundreds of project amendments per year just to keep the administration of "linked" projects correct.

The alternative to this is to place the SNS JU CoA 2024 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 website[3] 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 SNS JU CoA 2024 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 needed to be amended to integrate projects with different contractual obligations to participate in the same agreement.

SNS OPS supported the legal group from the 6G IA, with contributions from the EC legal representatives, to determine exactly what format this updated SNS JU CoA 2024 should take.

2.2   Launching the updated SNS JU Collaboration Agreement

The updated SNS Initiative Collaboration Agreement 2024 was prepared by the 6G IA legal team, with support from the SNS OPS project in the last Quarter of 2023 and first Quarter of 2024.

It was formally endorsed by the SNS JU Governing Board (GB) on 26 April 2024[4].

The SNS JU Office added a requirement in Part B of the Grant Agreements of all Call 3 projects reflecting this decision and the Office also ensured that the Grant Agreements for Call 3 projects are designed with the text in Annex 5 text declaring the requirement to be in the SNS JU CoA 2024 in each new project contract.

The updated SNS JU CoA 2024 was only available to be shared with the projects from Q2 2024.

2.3   Signature Process progress

As soon as the SNS JU CoA 2024 was agreed the projects of Call 1 and Call 2 were informed, given copies of the agreement and accession forms and asked to proceed with securing the signatures from their participants. This involved all 35 projects started under the HORIZON-JU-SNS-2022 call (Call#1)

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[3] https://smart-networks.europa.eu/project-portfolio/

[4] https://smart-networks.europa.eu/wp-content/uploads/2024/04/08-2024-gb-decision-endorsement-6gia-collaboration-agreement-with-annex.pdf

and the 28 projects started under the started under the HORIZON-JU-SNS-2023 call (Call#2).

For the Call 1 Projects this involved all 270 parties signing their agreement to the updated SNS JU CoA 2024. The work of Period 1 getting Call 1 participants had to be repeated in Period 2.

Significant effort was invested into explaining the need for this change and the implications of the changes made to the updated SNS JU CoA 2024. A web page supporting the adoption of the SNS JU CoA 2024 with answers to the Frequently Asked Questions was established[5] to allow organisations to see the rationale for the changes, the actual changes made to the agreement and the list of projects involved was established and maintained.

The new projects of Call 2, that started in January 2024, were also asked to accede to the same updated SNS JU CoA 2024 and this added 98 new organisations to the agreement, in addition to the 110 participants of call 2 projects who were also in call 1 projects.
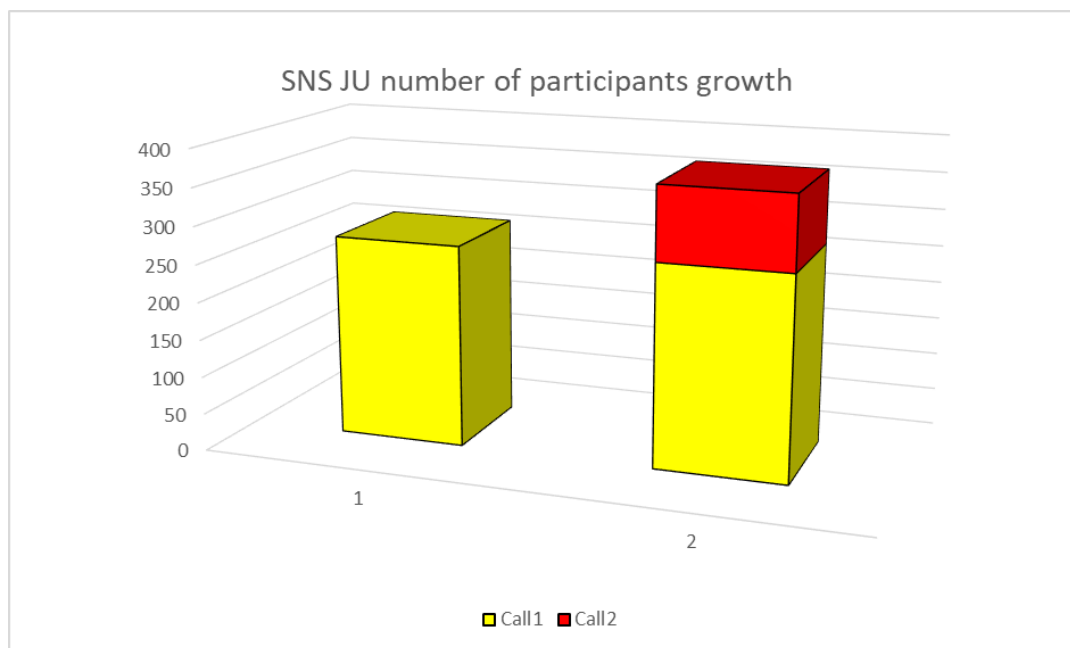
Figure 1: Adding of organisations to the SNS Collaboration Agreement, per Call

The support work SNS OPS offered to all the projects in 2024 was personal support in terms of answering any questions on process, answering any questions on legal understandings, 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.

2.3.1   Adoption of the updated SNS-Initiative CoA 2024 by Call 1 Projects

The Call 1 projects, having already subscribed to the original SNS JU CoA, understood and accepted this requirement to re-join the updated SNS JU CoA 2024. The project coordinators were very proactive in securing the signatures from their project participants. However, as always, the legal departments of some participants took their time to confirm their agreement.

By September 2024 well over 90% of the Call 1 participants had acceded to the updated SNS JU CoA 2024. The last couple of signatures were gathered in December 2024 to complete the accession of Call 1 projects to the updated SNS JU CoA 2024. Figure 2 below shows the progress of Call 1 project participants signing the SNS Collaboration Agreement. The "Participations" bar in the chart counts

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[5] https://smart-networks.europa.eu/collaboration-agreement/

every single participation of the organisation participating in SNS projects, i.e. taking into account if an organisation participates in more than one project in which case every one is counted as a participation. The term "organisation" refers to a unique entity and this reflects how many unique organisations participate in the projects of that Call.
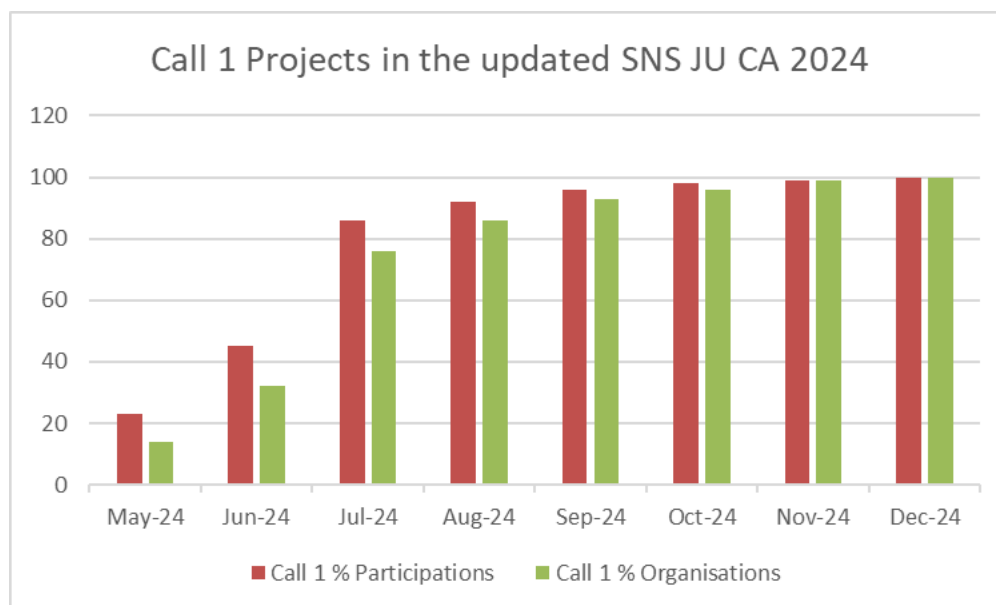
Figure 2: Rate of accession of Call 1 projects to the SNS JU CoA

2.3.2   Adoption of the updated SNS-Initiative CoA 2024 by Call 2 Projects

The Call 2 projects launched in January 2024 but, because of the delays finalising the updated SNS JU CoA 2024, they were only asked to accede to the agreement in Q2 2024. In a very similar pattern to the Call1 projects, well over 90% of the Call 2 Participants had acceded to the updated SNS JU CoA 2024 the by September 2024. The last couple of signatures were gathered in December 2024 to complete the accession of Call 2 projects to the updated SNS JU CoA 2024 but one organisation had not signed because they believed that they were covered by the signature of their corporate parent. However, this is not the case and each organisation participating under its own PIC number is asked to accede to the updated SNS JU CoA 2024. This has been clarified and they have agreed to sign - but as yet the completed form has not been received.
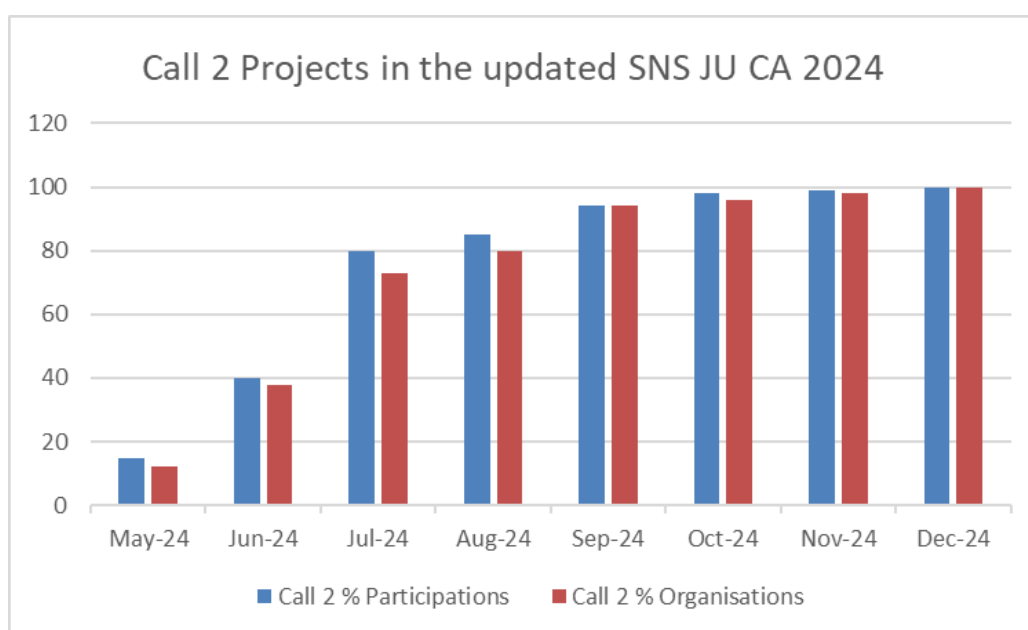
Figure 3: Rate of accession of Call 2 projects to the SNS JU CoA

The SNS JU Project Officers are supporting this work by reminding the projects of their obligations to be part of the updated SNS JU CoA 2024.

2.3.3   Adoption of the updated SNS-Initiative CoA 2024 by Call 3 Projects

In January 2025, 16 new projects from Call 3 of the SNS JU started and these projects were actually approached in the preparation phase to consider their status in the updated SNS JU CoA 2024.

There are almost 200 participations in these 16 projects with nearly half of the participants being new to the SNS JU.

On a first assessment of the Call 3 participants in November 2024 it was found that 62% or the organisations involved in Call3, representing 74% of the participations were already parties to the updated SNS JU CoA 2024. This information was shared with the project leaders and they were requested to ask their consortia to consider getting the signatures in advance of their projects starting to facilitate a fast integration of the Call 3 projects into the SNS JU working procedures (SB, TB & WGs).

By January 2025 the % of Call 3 organisations who have acceded to the CoA has risen to 72% (81% of Participations) and the projects are continuing to gather their signatures. Of the 16 call 3 projects, 7 projects have already collected their full set of signatures as of January 2025.
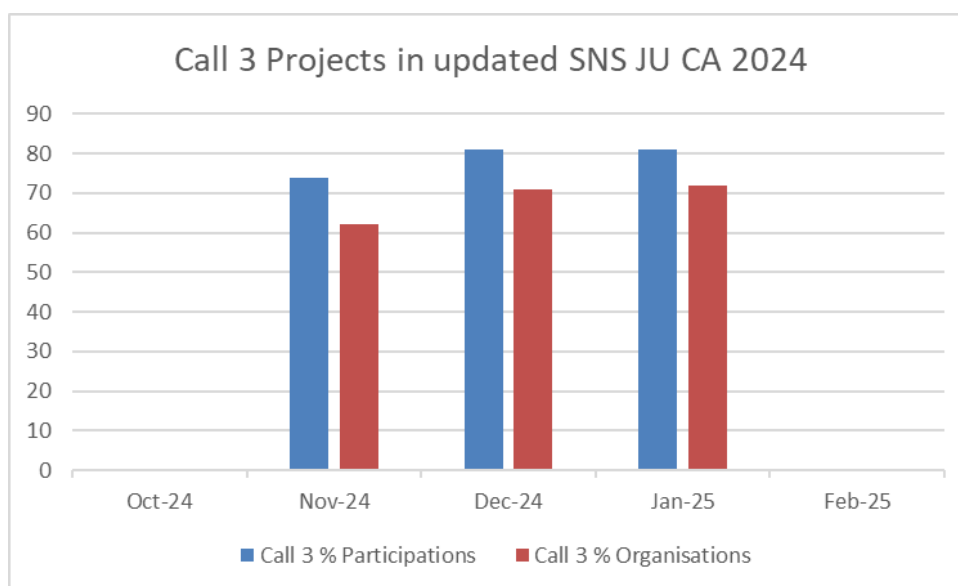
Figure 3: Rate of accession of Call 3 projects to the SNS JU CoA

2.4   Scale of the Community for the updated SNS JU CoA 2024

In total there are 35 projects from Call 1 and 28 from Call 2 running and they have been joined by an additional 16 Call 3 projects that started in January 2025. SNS OPS has overseen the integration of all of these – including asking the Call 1 projects to repeat the process in 2024. This set of projects represents 466 unique organisations who will have acceded to the updated SNS JU CoA 2024. A list of these organisations has been included in Appendix A of this document.

This work is now handed over to SNS CO-OP to complete the collection of the Call 3 signatures and to update the database with any changes from amendments where new parties may be added or existing parties may be removed.

As of January 2025, the number of running projects in the SNS JU is 60+ and this makes the common meetings, such as SB and TB, very large. The role of the updated SNS JU CoA 2024 is to provide a stable supported interworking environment where the projects can interwork with mutual trust and respect.

2.5   Future of the SNS JU Collaboration Agreement

Call 4 of the SNS JU is open and will add another round of projects to this community starting from January 2026. SNS CO-OP will manage the CoA process for these new projects, building on the work of SNS OPS. In the same timeframe we expect some of the Call 1 projects will complete their work and their results will need to be archived and kept available to the SNS JU community.

3   Supporting the SNS-I 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 SNS-I SB had already been completed and first meetings were already organised in the previous period, as reported in SNS OPS Deliverable D3.1. In the current period the focus had been on supporting the established SB, to organise its meetings and to manage its growth in terms of projects represented in the SB as the projects from SNS Call 2 were joining the SB in the course of 2024, increasing the number of projects that are member of the SB from 35 in January 2024 to 62 in January 2025. This was a huge growth and significant efforts were needed to manage that growth and to support this large body.

In this period, i.e. from February 2024 to January 2025, six meetings of the SB have been organised by SNS OPS, two were physical Face to Face (f2f) meetings and four were 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. Due to several factors as e.g. people availabilities, avoiding overlap with busy periods, EuCNC, Summer and SNS project review periods, only two f2f meetings could be organised in 2024. In 2025 however, again three f2f meetings will be organised and the respective dates and locations have already been fixed. Having these three meetings in f2f format is seen important as the web-meetings done in-between the f2f meetings do never enable the same level of cooperation, effectivity, discussion, exchange and creativity that have been witnessed in the f2f meetings organised so far for this SB. 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 Groups (WGs) activities, joint presences at dissemination events, future plans etc. Teleconferences in turn are used for short status and progress updates and are limited to max. 2 hours.

Projects accede to the SB (and the other inter-project collaborative activities as e.g. the TB, WGs etc.) as soon as they have fully signed up to the SNS Collaboration Agreement. As mentioned above, 27 new projects from SNS Call 2 have joined the SB in 2024. In preparation of that, SNS OPS contacts the official coordinators as indicated in the project proposal and requests several pieces of information, most notably the names and contact details of the project representatives in the SB, TB and Comms Taskforce (TF). At this opportunity, projects are also sent some pieces of important information to explain the schedule and procedure for joining the collaborative activities in SNS. With the collected information the preparations for granting the projects access to the SNS document repository (BSCW) are started, and the adding of representatives to the various mailing lists in SNS is prepared. BSCW access is actually granted and representatives are added to the mailing lists as soon as a project has fully signed up to the SNS Collaboration Agreement. In order to support the "on-boarding" into the joint activities, SNS OPS has organised a webinar on 2 October 2024, to give an introduction to SNS JU and its SB, TB and WG activities, targeting SNS JU Call 2 projects, which about 90 participants attended.

Figure 4: Welcome presentation slide at the Call 2 projects "on-boarding" webinar

As the term of the SB Chair / Vice-Chair is for one year, an election has again been organised in 2024, more precisely in September-October 2024, starting with a Call for candidature that was sent to all SB members, i.e. all projects that are currently running in SNS JU and which have joined the SB. Concluding from the responses received, Mikael Fallgren has been confirmed as SB Chair and Tasos Gavras has been confirmed as Vice-Chair.

The Working Groups which activities are reviewed in the SB meetings includes the Project-WGs (four WGs at the time of writing this document – Architecture WG, TMV WG, Software Networks WG and Hardware Technologies WG – for details see the SNS web[6]), but also the 6G-IA Industry WGs[7].

SNS OPS carries out a regular documentation of Working Group activities and status, based on input received from the WG leaders. 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 D4.1[8] so far, and D4.2 which is due 31/03/2025.

3.1   SB meeting #1: 12/02/2024 – Online

The first meeting in 2024 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.

The SB was still on its way to get into standard operational mode. In order to facilitate that for everyone, SNS OPS has prepared an Overview document that was presented to the SB in this meeting. It gives an overview of the SNS JU operational aspects, e.g. how to participate in the various activities, where to find information, who the contacts are, etc. It has been uploaded to BSCW, to the SB directory. In addition, a Calendar.xlsx has been prepared in which major meetings, events or deadlines should be included in a bottom-up manner, also uploaded to BSCW.

The representative of the SNS Office in the SB (Pavlos Fournogerakis) gave an overview of the process of project reporting and reviews, with various details and the respective deadlines.

SNS OPS also informed of the obligation of SNS projects to upload their project Deliverables to BSCW. In the spirit of the SNS Collaboration Agreement, all SNS projects are asked to upload their Deliverables to BSCW. This will be a permanent obligation throughout the whole duration of the SNS JU. All projects, no matter at what period of the SNS they were running, will have access to the Deliverables of all projects throughout SNS. As a first action, all projects were asked to upload the list of their Deliverables.

The TB Chair provided an overview of the status of TB activities, which addressed the TB Terms of Reference (ToR) finalisation, information about the Taskforce on Sustainability that has started, and initial discussions on the TB Reference Figure.

Under agenda item "SNS liaisons with other regions or verticals" the 6G-IA representative reported about the participation from SNS to a 3GPP SA1 workshop on 6G Use Cases to which SNS has been invited. Projects have been informed in a webinar (recording available) and input has been requested that will be harmonised and presented as the SNS view at this 3GPP workshop.

Three of the Working Groups (WGs) gave a brief update on their activities.

Main events discussed included MWC'24 and EuCNC. For MWC, several projects informed they plan for a presence at the event, mostly at partner organisation stands. Also the SNS JU will host a "6G Horizon" session at MWC24 on 27 February.

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[6] https://smart-networks.europa.eu/sns-ju-working-groups/

[7] https://6g-ia.eu/6g-ia-working-groups/

[8] https://smart-networks.europa.eu/csa-s/#SNS-OPS

3.2   SB meeting #2: 09/04/2024 – Aachen

This meeting was organised as a f2f meeting and was hosted by Fraunhofer IIS in Aachen, Germany.

After the usual welcome, checking of participants, approval of the agenda and review of action items from the last meeting, the TB Chair Kostas Trichias reported that the monthly meetings of the TB are well attended and the TB ToR have been completed and approved. The Reference figure 2024 which gives a birds eyes view of on what projects are working is nearly completed. The SNS Office expressed it would be very interested to also create a Reference Figure based on information on Verticals addressed by the projects. Moreover, as 29 of 33 Call 1 projects are working on AI/ML, it had been agreed to joint work on preparing a framework/whitepaper.

An issue seems the level of cooperation between projects: Stream A/B projects to use Stream C facilities is currently at a quite low level (only very few and not very intense), this has also been an observation at project reviews and recommendations were made to projects to intensify such cooperations.

In terms of SNS liaisons, the preparation for the 3GPP SA1 workshop on Stage 1 IMT-2030 (6G) Use Cases made good progress, as several projects and National Initiatives have provided some input. The final result was planned to be presented internally in a webinar on 15 April 2024 and in the 3GPP event in May 2024 in a 30 min slot.

In this SB meeting the Task Force (TF) on Open Calls status review gave a detailed report about the progress of the TF activities. Experiences were shared, e.g. about difficulties and lessons learnt from the organisation and evaluation of Open Call project proposals, and some statistics were shown. A good and insightful discussion on best practices for organising Open Calls took place, and thanks to the participation of an SNS Office representative in the meeting some questions could be immediately answered. The SNS Office would be very interested to get some information about the outcome of the Open Calls and beneficiaries who received a grant.

Figure 5: Open Calls TF session at the SB meeting Aachen

A larger slot was devoted to reporting from WG activities. The Test, Measurement and KPI Validation (TMV) WG had finalised its ToR and would send it to the SB for approval shortly - 23 projects have already joined the WG. 5 Subgroups to divide the work have been created: 6G KPI definition and monitoring, 6G KVI estimation, Test data reusability in SNS, Analysis of trial results, and EMF.

The 6G Architecture WG had its ToR already approved by the SB and informed it will run the 3rd Workshop (WS) on 6G Architecture (6GARCH) at IEEE WCNC 2024. There will also be several activities from the WG at EuCNC'24. A proposal for 4th workshop on 6G Arch. has been submitted to IEEE GLOBECOM 2024.

The Software networks WG has started its activities in Jan'24 with 10-12 participants participating in the telcos. The ToR have been completed and were approved by the SB. First ideas on topics for a whitepaper have been discussed, with a target release date in the 2nd half of 2024.

The Hardware WG was making progress for its setup. The draft ToR were presented to the SB followed

by a discussion on the content and scope of activities. There had been more topics in the initial proposal but they have been consolidated in order to keep a focus.

From the 6G-IA WGs, the Vision and Societal Challenges WG reported about progress of the sustainability whitepaper. In addition, an update of the 6G Vision whitepaper is planned: The ToC was ready and main editors were set, chapter editors' selection was still ongoing.

The participation of projects in WGs was reviewed. Three projects had not yet joined any of the WGs and the SB Chair explained he was available to help if there are any questions or doubts from these projects.

Under the Events agenda item, several events were discussed, including EuCNC'24, 5G-Techritory, MWC'25, and Future Networks World Forum.

Under "Project-related items" some of the projects gave feedback from their project reviews, which was very informative for the other projects. Again, the presence of the SNS Office representative allowed for immediate clarification of some of the comments or questions. SNS OPS presented an overview on the production process of the SNS Newsflash / Newsletters and explained what the options are for projects to get their news into these channels.

Finally, the SNS Office representative explained about the delay in finalising the revised SNS Collaboration Agreement.

3.3   SB meeting #3: 27/05/2024 – Online

This meeting was again organised as a shorter web conference. As usual the focus was on giving brief updates, sharing news and discussing the necessary coordination and joint actions.

At meeting start, the project coordinators were reminded of the process for the situation when both the Coordinator and Deputy of a project are unable to attend an SB meeting. In such case, the coordinator should try to appoint a deputy for this upcoming meeting, but in any case, notify in advance. Of course, being represented by a deputy should be the exception, as the SB is the meeting place of the SNS project coordinators – as per the SNS Collaboration Agreement – and all Coordinators should strive for attending all SB meetings.

The TB Chair reported about the progress of the various TB activities: Finalisation of the Reference figure for which an online version was planned to be prepared, the Sustainability – TF, the AI/ML work towards a whitepaper, the Vertical Engagement tracker and Events with TB relation.

The 6G-IA representative informed that the 6G-IA spectrum WG is currently being revitalised, and that Werner Mohr will act as interims Chairman.

SNS OPS presented some results on the project responses to the SNS OPS questionnaire e.g. on main KPIs addressed by SNS projects, technologies in focus, Use Cases, etc.

Several of the WGs also presented some updates on their activities. The 6G Architecture WG informed that the Call 1 project presentations have been completed. The Workshop proposal for Globecom in Dec'24 had been accepted and preparations have started. The WG would also be active in several EuCNC Workshops. The Software networks WG informed that it will also contribute to several Workshops and sessions at EuCNC'24. Moreover, preparations for a Whitepaper to be released in 2024 have started. The Test, Measurement and KPI Validation (TMV) WG continues its monthly telcos, and for the Hardware Technologies the proposed ToR have been sent to the SB for approval. The Pre-Standardization WG informed that the work on the Standards Developing Organisation (SDO) impact tracker is progressing. 16 projects have reported SDO contributions in the last report. At EuCNC'24 a convened session with ETSI was being organised.

On the Events part it was announced that there will be a strong presence at the EuCNC'24 event taking place in the week after this SB telco.

3.4   SB meeting #4: 11/07/2024 – Online

The purpose of this last meeting before the summer break was again to give brief updates and reports

from the ongoing activities, also considering that the next SB meeting would only be in October, i.e. in 3 months.

The SNS Office representative thanked the projects in the "Public side updates" for their active participation at EuCNC. Several pieces of information were shared with the projects in the context of and in preparation for the 20+ project reviews that were planned to be organised in September/October 2024. Several questions were asked in that context and answered.

SNS OPS informed that the SNS OPS questionnaire results have been presented in a webinar in June 2024. Presentation and webinar recording can be accessed on the SNS JU web. Projects were also informed of an opportunity to have a project video displayed at an SNS show room at the 5G Techritory event in October in Riga.

The TB Chair informed that the interactive version of the projects Reference Figure has been published on the SNS web[9]. In the Sustainability TF the interviews with projects were progressing well, and regarding the AI/ML work the questionnaire had been distributed to the projects for which input was expected by 31 July.

The Task Force (TF) on Open Calls presented some new insights. Templates for cost and effort reporting had been prepared by FIDAL project that can be re-used by other projects. Also, an overview of Open Call statistics for several projects was shown.

Also, several WGs again briefed on their activities. While the 6G Architecture WG continued its work on the whitepaper and the preparations for workshop at Globecom2024, also the integration of SNS Call 2 projects has started. The Software networks WG continued its preparation of a whitepaper, and for the Hardware Technologies WG it was informed that the WG ToR have been approved by the SB. The SNS projects (SB and TB) have been invited to consider joining the WG.

SNS OPS again explained how to subscribe to a WG mailing list and to get access to the BSCW space of the WG.

SNS OPS also informed that the current one-year term of the SB Chair and Vice-Chair would end in the beginning of October and therefore all projects were invited to consider if they want to submit a candidature for one of the positions for the next year, i.e. Oct-24-Oct-25. A call for candidates would be issued mid-September by SNS OPS and elections would be organised (if there is more than one candidate per position) in the SB meeting in October in Castelldefels.

Reviewing the next SB meeting dates concluded this telco.

3.5   SB meeting #5: 08/10/2024 – Castelldefels

This meeting was organised as a f2f meeting and was hosted by CTTC in Castelldefels, Spain.

After the usual welcome, checking of participants, approval of the agenda and review of action items from the last meeting, the SNS Office representative gave an overview of the SNS project portfolio from the first 3 Calls. From Call 3, 16 new projects were planned to start around Jan 2025. The ambition was to involve them much quicker in the joint SNS activities and projects would be requested to sign the SNS Collaboration Agreement within 2 months from the project start. Upcoming Call 4 would then be the last Call of SNS Phase 2. Following that, a set of key take aways from SNS JU project reviews has been presented. This again highlighted that the SB meetings provide an excellent space also for direct interaction between the SNS projects and the SNS Office, which interactions help to make the organisation of project reviews and other obligations smoother and more efficient.

Under "Private side updates" some news from 6G-IA were presented, e.g. that the results of the 2nd public consultation on the orientations for the R&I WP 2025 are planned to be presented in a webinar. Projects were also reminded how to apply for joining a 6G-IA WG.

SNS OPS presented the status of the SNS-I SB Chair / Vice-Chair election 2024. As the current term of the SB Chair and Vice would end in October, the election process has been started. Following the Call

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[9] https://smart-networks.europa.eu/interactive-map-of-sns-projects/

for candidatures, the following applications were received:

- For the SB Chair:
  - o Mikael Fallgren, SNS OPS project (proposed by Hexa-X-II)

- For the SB Vice-Chair:
  - o Anastasius Gavras, CENTRIC project (proposed by CENTRIC)
  - o Padmanava Sen, INSTINCT project (self-proposed) – has withdrawn shortly after announcing the elections

Given that there is only one candidate per position, elections were not needed. The SB members in this meeting approved the candidates with a unanimous vote.

Figure 6: Participants at the SB meeting Castelldefels

The TB Chair gave a status update of the TB activities. The TB continues its monthly meetings with very strong participation from SNS Call 1 projects. Also Call 2 projects started participating but still quite many need to start joining the meetings. The work in the Sustainability TF was ongoing with individual interviews with all involved projects. 24 projects provided detailed input to the AI/ML Whitepaper. There was also a discussion on how the collection of information from projects through the various channels could be made more efficient.

The Task Force on Open Calls showed statistics from several projects of their rounds of Open Calls. This shows that in most projects there is a centre of gravity for participants around a specific country or a testbed. The statistics also show that there is a large variety of vertical sectors that participate in Open Calls. Some of them participate in several projects while some sectors are just in a single project. Some projects have not yet targeted verticals at all as so far they have focused on implementing enablers. The discussion was complemented with an exchange of experience on the various aspects of handling and organising Open Calls formally correct.

In this meeting many of the WG leaders participated and gave a report on the status of the WG activities, including the Pre-Standardization WG, SME WG, 6G Architecture WG, Software networks WG, Women in Telecommunications and Research (WiTaR) WG, etc. All Call 2 projects that had not yet

joined the SNS WG activities were asked to discuss the interest in their projects and then enter the representative names in the list on BSCW.

SNS OPS presented some pieces of information as e.g. the status of projects signing the updated SNS Collaboration Agreement, and requested project input to the SNS Stakeholder consultation organised by SNS OPS or the advance notification on the required SNS Journal 2025 input.

Before concluding the meeting, the coordination of projects' presence at EuCNC has been discussed. This aimed at a higher efficiency in preparing the proposals for workshops or sessions where many less slots than interest are available. A pre-coordination and establishment of an agenda for a complete package coordinated by the SB/TB would be an option to overcome the constraint of the limited number of slots.

3.6   SB meeting #6: 05/12/2024 – Online

This last meeting of the year was again in telco format, yet a packed agenda was planned and the volume of presentations and discussion resulted in a longer than planned meeting (2h → 2:40h).

The usual review of action items responded to some of the discussions in the last meeting, reporting back on the activities and investigations since then, e.g. on how to streamline information collection from projects, or for projects to discuss their interest in joining SNS WGs.

Several updates were presented by the SNS Office, e.g. about the kickoff of Call 3 projects, information on past and planning of future project reviews, GA Amendments, etc.

The 6G-IA representative informed that the 6G-IA 6G Vision whitepaper has been released a week ago and a webinar to present it had been organised (slides and recording are available). At 5G Techritory 2024 videos from 20 SNS projects have been shown. 6G-IA had been invited by ITU-R SG5 WP5D to contribute with use cases and KPIs related to IMT-2030. Input was planned with support from the TMV and Spectrum WG. The SNS projects were invited to contribute.

Several smaller updates were presented by the WG leaders. The 6G-Architecture Whitepaper was progressing well, as the collected input was being reviewed and a stable draft would be available in one week when a public consultation was planned to be started. Also the Test, Measurement and KPI Validation (TMV) WG informed that their white paper on KPIs was in progress and a first draft version was planned for the end of the year 2024. KVIs had been collected from 10 projects. Likewise, the Software networks WG Whitepaper "Key frameworks and Interfaces towards 6G" was nearly finalised and would be sent to the SB for review still in December.

SNS OPS presented a proposal for a revision of the process of reporting about the SNS WG activities. This mainly addressed the reporting template and the frequency/deadlines for production and release. There were no comments / no objections from the SB.

Under Events, the opportunity for projects to be present and show results at the ETSI AI Conference 10-12 Feb 2025 was presented, and projects interested were asked to inform of that. Regarding MWC'25, SNS OPS planned to again collect information about SNS projects presence at the event, so that a good overview map could be prepared for dissemination on the SNS JU web and at the event. Following up from the discussion at the previous SB meeting, participation from SNS projects at EuCNC'25 has been discussed. The TB Chair was asked to help with coordination and grouping of interests from SNS projects and SNS WGs regarding proposals for special sessions and workshops.

The TB Chair gave a brief update on the status of activities.

SNS OPS brought up a few project-related items. Projects were reminded to ensure their representatives attend the Comms TF telcos. Projects were also reminded to include in all communication materials (online and offline) the EU funding acknowledgment, which has to include besides the EU flag also the SNS JU logo. Finally, some projects were reminded to upload their project Deliverables to BSCW.

After a review of the list of next SB meetings this telco was closed.

3.7   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 7 shows a snapshot from the SNS JU SB BSCW space.
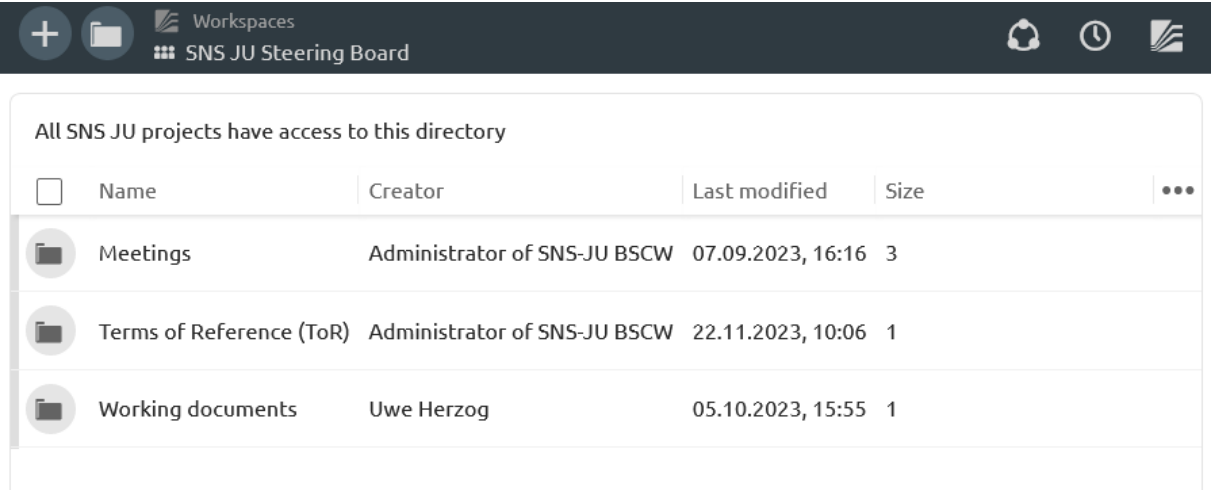
Figure 7: Screenshot of the SNS JU BSCW – SB space

4   Supporting the SNS-I Technology Board

The SNS OPS project continued to provide support to the actions of the SNS-I Technology Board (TB) during the second year of the SNS OPS project. 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, a web conference meeting tool in the form of Webex similar to previous year. It should be made clear that only the project representatives who have signed the Collaboration Agreement have access rights to those above-mentioned resources.

During the second year of the project all SNS Call 1 projects needed to resign the Collaboration Agreement, and also Call 2 projects were invited to sign the collaboration agreement. Thus, the number of TB representatives has been increasing with new Call 2 projects. In the period covered by this Deliverable (February 2024 – January 2025), 12 TB Telco meetings were held. According to the TB ToR, one monthly online meeting was planned as a base and it has been implemented as planned.
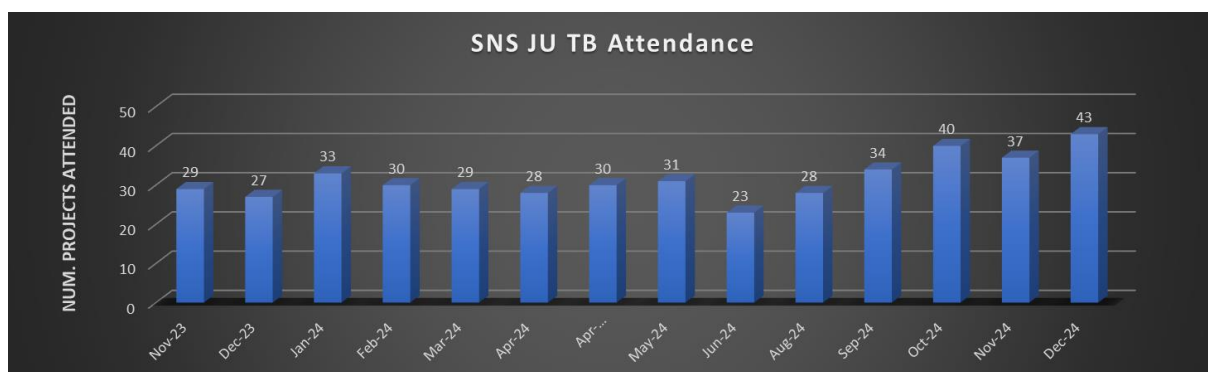
Figure 8: SNS-I TB All Projects That Signed CoA, Attendance Statistics

Besides above SNS-I TB attendance graphic over the past year, we can also check how the Call 1 & 2 projects participated since the beginning of the TB meetings. It can be easily seen that Call 2 projects participation is lower due to their start only in the course of 2024.
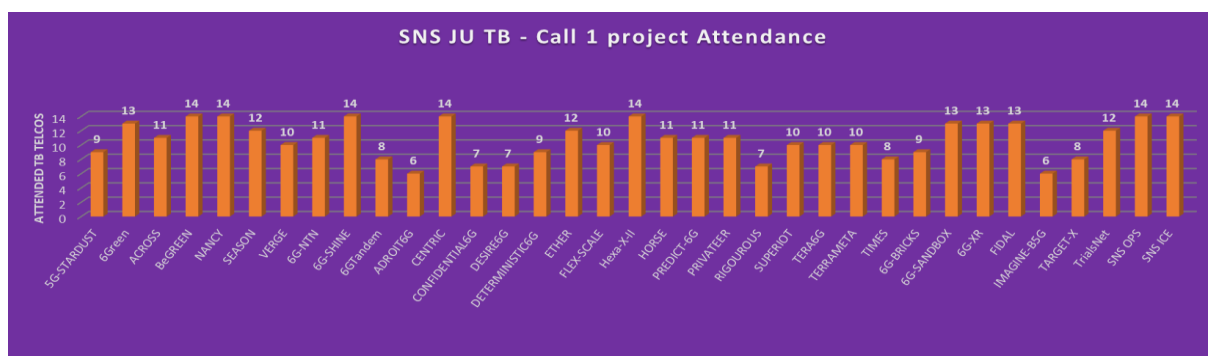
Figure 9: SNS-I TB Call 1 Projects That Signed CoA, Attendance Statistics
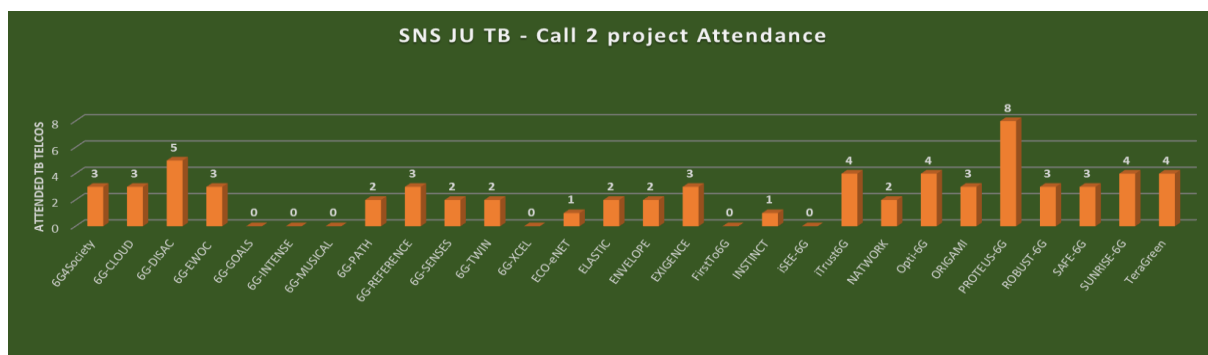
Figure 10: SNS-I TB Call 2 Projects That Signed CoA, Attendance Statistics

Besides the online meetings, in order to increase the interactions and discussion between the SNS JU projects, face-to-face physical meetings were organized. The first Face-to-face meeting took place in Antwerp, Belgium on 7th of June 2024. The second face-to-face meeting took place in Castelldefels, Spain on 9th of October 2024.

The TB meetings have been organised by SNS OPS. All minutes, participant lists, presentation slides etc. have been uploaded to the BSCW online area into relevant folders and are accessible by the TB members. As soon as the projects sign the collaboration agreement, access rights are provided to new TB representatives.

In the following subsections, key highlights from the TB 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   TB meeting #1: 06/02/2024 – Online

The online meeting on 6th of Feb 2024 started with the information regarding the "Update on TB Terms of Reference (ToR)" document. The 1st edition was created and shared with the TB members by Uwe Herzog from Eurescom. A first round of comments has been received and have been processed. An updated version has again been shared with the TB to create a pre-final version of the TB ToR.

An updated version of the reference Figure was proposed from the TB chairman, based on the feedback received, since the previous telco. The goal of the reference figure is to easily and immediately convey key information to the general public about the SNS Phase 1 projects' work and to assist with the identification of projects focusing on similar issues/technologies. The project names, logos, links to the respective project websites are planned to appear in the mature versions.

The Sustainability Task Force creation continued during this period. 14 projects have registered to the TF and registration continued during the period. For a kick-off meeting planning it is agreed to circulate a poll to determine the most suitable date for the 1st Sustainability TF telco.

As the EuCNC 2024 event approaches, the TB chair has proposed to create a common file to record intentions from projects. 18 events were declared with multi-project participation. A Half day WS is planned by the SNS SB, TB and WGs and a full day WS on Sustainability, with the participation of the Sustainability TF is planned.

4.2   TB meeting #2: 05/03/2024 – Online

The meeting started with reviewing the Reference Figure update by TB Chair Kostas Trichias supported by Mohammed Al-Rawi. After receiving the feedback regarding to the Reference Figure (RF), an updated version of the final categories and items to be included in the reference Figure was presented. TB members were asked to coordinate with their projects and to provide the matching of their projects to the agreed categories/items in the relevant excel file.

The updated and final version of the TB Terms of Reference document was presented by Uwe Herzog from Eurescom, with some minor editorial comments received after its last circulation. The presented final version of the TB ToR was accepted by the TB.

The Sustainability TF had its first Telco on 22 February 2024. At this meeting the mission statement, goals and outcomes, timelines and roles were discussed and the work structure agreed. It was decided to create a dedicated mailing list for the Sustainability TF. Clarity on the specific roles, work and contributions of each project was still under discussion. A questionnaire was planned to be prepared by the TF leader that will list the sustainability topics to create an opportunity for the projects to categorize their sustainability impacts and contributions. According to the position statement of the projects, corresponding roles would be defined in the core team to support the creation of the holistic sustainability research framework, facilitating the commitment and signing-up of the contributors.

The TB chair announced that the new version of the SNS JU annual Questionnaire was ready and the TB members were asked to provide their input.

TrialsNet (Stream D) and Origami (Stream B) projects aspired to organize an online WS for STREAM-D projects to provide input towards SNS STREAM-B projects. This was a natural connection towards the KVI framework that is being studied by flagship initiatives and STREAM-D project. It was an open invitation for all projects to participate. Alex Trogolo from Telecom Italia was the driver of this activity.

For planning a TB f2f meeting, the TB Chair shared its preference to collocate it with EuCNC 2024. It might start on the afternoon of Thursday 6th June and finish early afternoon on Friday 7th. The TB Chair agreed to do the relevant arrangements for the organization of the event.

4.3   TB meeting #3: 02/04/2024 – Online

As part of previous discussions, the meeting started with the Reference Figure update topic. An excel sheet presented the collected Phase 1 project input and reminded the non-responsive TB members to contribute.

The Sustainability TF has introduced the draft Sustainability Task Force Questionnaire with the task force participants and their feedback was requested. The questionnaire included project specific questions as well as TF roles and contribution related questions to develop the TF participation. It was agreed to send out a telco invitation for the next TF telco.

As the deadline for responding to the SNS JU Annual Questionnaire had passed and as there was still some missing inputs, a reminder has been sent to the non-responsive TB members. 27 out of 35 Phase 1 projects had completed it, as well as 12 out of 28 Phase 2 projects.

The AI/ML Questionnaire / White paper was introduced for the first time. Initial interest has been received from a few core projects to pursuit this. The Core team created includes Vasos Vassiliou (ADROIT6G) and Maria Christopoulou (PRIVATEER) who already started aligning on this. A 1st edition of a basic questionnaire has been drafted for discussion. More AI/ML experts have been approached to contribute. It was agreed to prepare an initial timeline and a draft questionnaire, to be presented in the next TB meeting.

The TB f2f meeting planning continued during this meeting. The ambition was to collocate the TB f2f meeting with EuCNC & 6G Summit 2024 (Antwerp, Belgium) with the support of IMEC. The conference is planned to take place Monday 3rd June to Thursday 6th June (till midday) and the TB f2f would take place Thursday 6th June afternoon (e.g., from 14.00) & Friday 7th June in the morning (to finish by 13.00).

4.4   TB meeting #4: 30/04/2024 – Online

The TB meeting started with a status report on the Reference Figure Update. The Collection of data for the Reference Figure 2024 has been completed by all Phase 1 projects. The TB chairman contacted Eurescom & Martel to create some first draft layouts of the RF2024 and to discuss the online functionality. After a voting at the meeting, it was agreed to proceed with the Shape-based version (V1) as primary choice and try to improve some details based on feedback. The target planning was to present the reference figure at EuCNC 2024. It was agreed to prepare a newer version of the reference figure for the next TB meeting.

For the Sustainability TF the activities continued. The sustainability questionnaire had been reviewed, updated and shared with the task force participants. It was agreed that the questionnaire will be used for interview sessions between project representatives and the task force lead and volunteers. These interviews would be with one project at a time to allow dedicated focus on each project and a comprehensive understanding of its sustainability targets and potential impacts. Project representatives were expected to have worked on the questionnaire in advance of the interviews. Some interview slots were shared for booking. TB members were asked to contact the TF leader to schedule interviews. It was also agreed that there will be a Sustainability TF Session in the TB f2f meeting in Antwerp, to take stock of the initial interviews, as well as EuCNC interactions and the next steps towards the common methodology and framework, as an interactive, working session.

The AI/ML Work / White paper progress was shared with the TB. The Core team was extended with

the co-chairs of the Reliable Software Networks WG (also dealing with AI/ML). An AI/ML interactive session (~2 hours) was planned for the TB f2f meeting. Also, the AI/ML work timeline was presented and agreed by the TB. It was also agreed that the AI/ML Core team should progress with the evolution of the questionnaire and prepare a mature version to be circulated to the TB members for feedback/preparation, prior to the f2f meeting.

The status of the Vertical Engagement Tracker (VET) input was presented by the TB Chair. It was highlighted that the Vertical Engagement Tracker is tool a much-awaited by the SNS JU office which had an expectation that all projects do contribute their UCs to the VET. Missing input was reminded.

As the event for Stream D/Stream B Workshop on KPIs and KVIs was approaching (16th May 2024), workshop details (a dedicated folder at BSCW, event page) were shared by the task driver. It was agreed that the TB Chair will share the event details with the TB and 6G-IA members, when available.

For a better organization of future SNS-I TB f2f meetings, it was agreed that the SB & TB will always have co-located f2f meetings from now on, which will be scheduled well in advance (up to 1 year) since the increasing size of the TB will make scheduling more difficult.

4.5   TB meeting #5: 28/05/2024 – Online

In this meeting the main discussions started with the Reference Figure Update. The final version of the Reference Figure had been selected with broad acceptance by the TB members. It was agreed to create an interactive web-page based on this version. This figure and webpage were planned to be presented during the TB session @EuCNC24.

The meeting continued with the Sustainability TF update. There have already been 6 Sustainability Task Force Questionnaire interviews and overall, about 1/3 of the Call 1 projects have responded to the questionnaire interview request. More interviews were scheduled. Initial findings and insights from the interviews were agreed to be shared as part of the EuCNC Workshop 7: Sustainability: Paving the Way for a Sustainable 6G, where there was a Sustainability TF focused session on 3 June 2024, morning. To be ready for this session, it was agreed to organize a Sustainability TF Session in the TB f2f in Antwerp, on 6 June 2024 afternoon, to share common sustainability concepts and definitions, to take stock of the initial interviews, as well as EuCNC interactions, and the next steps towards our common methodology and framework, as an interactive, working session.

Under the AI/ML Work / White paper slot it has been informed that the AI/ML Questionnaire has nearly reached its final version. Besides, the team had an ambition to prepare a maturer version to be circulated to the TB members for feedback/preparation before the f2f meeting.

Information regarding the TB f2f meeting in Antwerp, 6-7 June 2024 (including agenda) was shared. The next f2f meeting has been agreed for the 9th October 2024 @ Castelldefels (Barcelona), Spain, CTTC. The TB also started to plan for a f2f meeting on 20th February 2025 in Kista, Sweden, collocated with the SB f2f meeting.

TB relevant events and their summaries have been shared: 6G-IA and 5G-MAG - Joint Workshop on Multimedia Systems and Services, Stream B/Stream D Workshop on KPIs and KVIs, SB/TB/WG Workshop @ EuCNC & 6GSummmit 2024.

4.6   TB meeting #6: 06-07/06/2024 – Antwerp

The first TB face to face meeting took place 6-7th of June 2024 in Antwerp, Belgium as a two days event. The agenda was agreed as below:

Day 1: Thursday 6th of June 2024: 13.30 – 18.00 CET

#	Topic	Duration	Driver
1	Opening of the meeting, round of Introduction	13:30 – 13:45	Kostas Trichias, All
2	Sustainability Task Force	13:45 – 15:45	Ali Rezaki, All

3	Coffee Break	15:45 – 16:00	-
4	AI/ML Questionnaire / White paper	16:00 – 18:00	Maria, Vasos, All
5	End of first day	18:00	-

Day 2: Friday 7th of June 2024: 09:00 – 12.30 CET

#	Topic	Duration	Driver
1	SNS Projects overview (Reference Figure & SNS OPS Questionnaire insights) Chat based on EuCNC experience	09:00 – 10:00	Kostas Trichias, All
2	Discussion on increasing cross-project collaboration session - 1	10:00 -11: 00	Kostas Trichias, All
3	Coffee Break	11:00 – 11:15	-
4	Discussion on increasing cross-project collaboration session – 2	11:15 – 12:15	Kostas Trichias, All
5	Any Other Business?	12:15 – 12:25	All
6	Next f2f Meeting	12:25 – 12:30	Kostas Trichias, All
7	End of second day	12:30	-

There was a 100% participation from projects with 43 people present at the venue. According to the planned agenda, the meeting started with the sustainability task force slot. The purpose of the discussion was to capture insights from the work of projects on sustainability, insights with regards to the challenges faced when trying to address sustainability issues, guidelines / framework for concrete steps (common practices), exemplary use case scenarios (based on the 3GPP SA1 ones) with ontology tables including KVIs. The outcome of this discussion was to proceed with the project interviews and the completion of the questionnaires, to update the visual representation to reflect 6G for Sustainability and based on overall received feedback and finally to take the discussion in the f2f meeting into account and adapt/update the targeted outcomes of the Sustainability TF.

The next subject was the AI/ML questionnaire / White paper. The discussion was about defining the exact scope & targeted audience of the white paper. To that end, the table of content was updated based on f2f meeting discussions & the quality of the received data from the questionnaire.

Under the Project overview & Collaboration discussion, the participants focused on the reference figure 2024 which was reviewed and a newer interactive version creation was discussed. Another topic which was discussed under the same heading was peer-to-peer collaboration. It has been agreed that collaborations of technical nature (e.g., common measurement campaigns) and common events types of collaboration should be attempted and tracked.

Under AoB, Collaboration Agreement updates were presented. Another decision was to consider creating an onboarding document for the TB for new projects. The next 2 TB Face-to-face meetings have been agreed/confirmed which will collocated with the next 2 SB f2f meetings. The TB meeting details are:

- Wednesday 9th October 2024 @ Castelldefels (Barcelona), Spain, CTTC
- Thursday 20th February 2025 @ Kista (Stockholm), Sweden, Ericsson

Figure 11: A picture from Antwerp 6-7 June2024 meeting

4.7   TB meeting #7: 25/06/2024 – Online

The discussions started with the Sustainability TF update. The Sustainability Task Force was strongly represented in the EuCNC 6G Summit in Antwerp, 3-6 June 2024, in various events/sessions: Workshop 7: Sustainability: Paving the Way for a Sustainable 6G, Hexa-X-II Workshop Session 4 (WS3), Special Session 3: Bringing 6G from vision to reality in Europe, Special Session 10: Towards a sustainable and socially accepted 6G for society, Panel 4 - AI and Open Source vs. 6G Standardisation and Regulation.

AI/ML Work / White paper: The status was presented. Questionnaire v0.6 was released on 20th June 2024, multiple suggestions were followed and issues fixed. It was decided that the questionnaire is now frozen. It was already agreed to send the final version to all TB members to fill in the questionnaire by July 31st.

Project Collaboration discussions continued with Stream C / D Webinar and Project Collaboration & Event tracking / planning. For the Stream C / D Webinar, Pedro Merino from 6G-SANDBOX volunteered to lead the organization of the event where projects can present the facilities they offer and first insights from year 1 and to attract synergies from other projects. The targeted date for this event was September-October 2024. Project Collaboration & Event tracking / planning file / tracker have been created and were presented. The Event/Collaboration tracker's format has been agreed and frozen and all Project Technical Managers (TMs) were asked to start populating the event tracking /planning tool with concept or mature thoughts on collaborations.

For the Relevant Events & MWC 2025 planning, it was announced that a webinar was planned for June 27th to present the SNS OPS Questionnaire results. For the MWC 2025 planning, it was mentioned that 6G-IA will not have a booth in 2025. Projects were encouraged to have a presence via partner booths. SNS OPS is ready to assist promoting the project presence. TB members were asked to inform the TB Chair as soon as they know more about their project participation to MWC 2025.

Due to the activities of SNS ICE at 5G Techritory 2024 on 30th and 31st of October 2024 projects were offered the opportunity to display project videos in an SNS show room. All projects are welcomed to submit their video, to be included in this SNS JU medley.

4.8   TB meeting #8: 20/08/2024 – Online

The TB Sustainability TF reported on the status of its work. 10 projects had already completed the questionnaire. Some more interviews were booked.

For the AI/ML Work / White paper, 19 projects have already provided their input. The remaining projects were asked to provide their input.

Project Collaboration & Event tracking / planning activities continued and the TB agreed to try and plan

several collaborative events (webinars) with relevant associations, WGs, etc. SNS ICE partners will assist the organization of these.

For the Stream C / D Webinar, the poll to decide the best date was still ongoing.

Projects were reminded of the opportunity to have their video shown at 5G Techritory 2024. 3 project videos have been submitted so far.

For the next TB f2f meeting Castelldefels (Barcelona), Spain, the TB chair reminded the TB members to register for the meeting. Besides, the agenda has been discussed.

An onboarding event to the SB/TB for call 2 projects has been discussed with the SB. TB members were asked to discuss and propose a way forward for an onboarding event.

It was also mentioned in the meeting that the TB Chair Election were coming up and the process for that has been presented. Target was to elect the new TB Chair by the f2f meeting on October 9th.

The status of the Collaboration Agreement has been shared: As of 19-08-24, for Call 1 Projects it was 92% participations and for Call 2 Projects participations it was 85%.

4.9   TB meeting #9: 17/09/2024 – Online

The Sustainability TF informed that its questionnaire interviews have continued (interviews with 15 projects have been completed), and additional interview slots were offered by Ali from Nokia. A timeline has been presented which brought an extension of more than 6 months of the original plan. Besides the structure of the Sustainability session at the f2f was presented focusing on 3 main themes: 1) From energy efficiency & savings to GHG emissions reductions and overall environmental sustainability 2) Three pillar sustainability coverage 3) Continuous sustainability assessment challenge.

AI/ML Work / White paper task leaders informed that the merged dataset is accessible on BSCW and 24 projects contributed with data on their AI/ML solutions which the AI/ML Core Team Members have been processing.

Didier Bourse from SNS OPS presented the status of the SNS Trials & Pilots (T&Ps) Brochure. 38 T&Ps declared in VET questionnaire by all projects (call 1 projects). The T&Ps core team has agreed to come back to the TB with a clear way forward on how to proceed with the 1st SNS T&Ps brochure.

New events were added by several projects to the Project Collaboration & Event tracking / planning. SNS-ICE agreed to assist the organization of events with vertical associations. For the Stream C / D Webinar: "How to increase platform driven collaboration in the SNS", the invitation has been sent for the webinar on Friday 4th of October (9-10.30 am CEST). The objective of this event was to promote collaboration of projects that offer experimental platforms with other projects in SNS.

Since the Castelldefels meeting draw closer, participants were asked to register and the presenters to prepare their materials and to send it to the TB chair.

The SB / TB / WG Onboarding Event has been planned for 2 October 2024, 14:00-15:00 CEST without any registration requirement.

The time plan for TB Chair and Vice-Chair Election for 2024 - 2025 period was presented. TB members interested were asked to send their candidate's application until 1st of October 2024.

The status of the Collaboration Agreement has been presented: 23 of 35 Call 1 Projects have fully signed the CoA, only 20 organizations are missing. 21 of 28 Call 2 Projects have fully signed the CoA, only 14 organizations are missing.

4.10   TB meeting #10: 09/10/2024 – Castelldefels

The second TB face to face meeting took place on 9th of October 2024 at CTTC in Castelldefels, Spain as a one-day event. The agenda was as below:

#	Topic	Time (Local)	Driver
1	Opening of the meeting, round of Introduction	09:00 – 09:30	Kostas Trichias, All
2	Sustainability Task Force	09:30 – 11:15	Ali Rezaki, Kostas Trichias
	Coffee Break	11:15 – 11:30	-
3	AI/ML Work & White Paper	11:30 – 12:30	Maria Christopoulou
	Lunch	12:30 – 13:30	-
4	AI/ML Work & White Paper (Continuation)	13:30 – 14:30	Maria Christopoulou
	Coffee Break	14:30 – 14:45	-
5	Reference Figure 2025	14:45 – 16:15	Kostas Trichias, All
6	Events, Project collaboration, next f2f	16:15 – 16:45	Kostas Trichias, All
7	AOB and closing of meeting	16:45 – 17:00	Kostas Trichias, All

There was again a very good participation. From Call 1 projects there were 39 participants, only 4 projects were missing. From Call 2 projects there were 20 participants, only 9 projects were missing.

Figure 12: TB members at Castelldefels 9 October 2024 meeting

As a first item, the Sustainability Task Force started with a short status update, in particular to get new Call 2 projects up to speed on the ongoing Sustainability interviews schedule for the Sustainability TF

questionnaire. In focus session 1, energy efficiency (EE) for environmental impact was discussed. During focus session 2, an overview of the 6G4Society project was provided focusing on its ongoing Sustainability survey (user perspective), and at focus session 3 an introduction to a method of the FIDAL project on how to achieve a feedback loop to tackle the gap between (technology) performance and value (in society) was discussed. The conclusion from this session was to create an internal report on key findings and highlights from the Phase 1 project interviews by the end of 2024.

In the AI/ML Work & White Paper session, the core team working on that topic mentioned that data from project inputs (available on BSCW) has been processed by the Core Team into aggregated results. Building on this material, so far with input from 24 projects, the ambition was to deliver a TB AI/ML white paper by the end of the year 2024. The Table of Content for the white paper has been updated.

The Reference Figure 2024 was officially presented at EuCNC & 6G Summit 2024. It was well received, and the decision was to enrich it towards a Reference Figure 2025 including both Call 1 and Call 2 projects.

Under Events, Project collaboration, next f2f topic, it was informed that a project collaboration tracker was created after the last TB f2f meeting. Besides, the projects were encouraged to identify synergies between them, e.g., ideas about an event, or anybody that wish to work together on an item.

4.11   TB meeting #11: 22/10/2024 – Online

One of the main topics of the meeting was to review the progress in the Sustainability TF. A final call for Call 2 projects had been issued asking to express their interest to participate in the white paper and provide their input by the end of the year, as a final call. An external publication and a workshop have been planned for the EuCNC 25– target deadline for external paper was end of May 2025.

For the AI/ML White Paper, all the previously agreed action points during the f2f meeting have been addressed. A few Call 2 projects have already provided input. Some additional Call 2 projects have indicated that they will also provide their input. The core team has agreed to start to progress with the processing of the results after all inputs have been received. An updated Table of Content (ToC) for the White paper was presented, incorporating the comments received during the f2f meeting. TB members were asked to review the updated white paper ToC and provide feedback.

For the Reference Figure 2025, the TB Chair informed that he has implemented the comments received in the Castelldefels meeting for the reference figure enablers / technological domains. TB members were asked to review the updated categories, their definition and any other aspect and provide comments directly to the TB chair.

Under the project collaboration topic some information was shared: The Webinar on Automotive and Transport and logistics has been scheduled for November 20th 2024. IEEE CAMAD has taken place in Athens which also included workshops from different SNS projects. At EuCNC, since more than 60 projects attended, there was consensus that there can't be a slot for each and every project, so synergies should be pursued.

The Vertical Engagement Tracker (VET) has been recognised as a very prominent tool from the SNS JU office and it is important to keep it up to date. TB members were asked to provide their contribution to VET if vertical use cases are addressed in their project.

4.12   TB meeting #12: 12/11/2024 – Online

Under the TB Sustainability TF activity it has been reminded that a dedicated e-mail exploder list had been created for use by Sustainability TF. It has been reminded that at the Castelldefels f2f meeting it had been agreed to prepare an internal report including the Call 1 project interviews towards the end of 2024. TB members were asked to form a team of co-editors. Potential kick-off meeting dates have been shared.

Regarding the AI/ML Work / White Paper, new input from 8 projects (4 from Call 1 and 4 from Call 2) were received. Input was already received from 32 projects. It was mentioned that the timeline to end this task was end of this year. TB participants were asked to assist with writing sections 2&7.

Under the SNS JU Reference Figure 2025, it was mentioned that the comments received in Castelldefels to the reference figure enablers / technological domains have been implemented. Also Enablers/Tech Domains lists have been agreed / frozen. It was agreed to prepare and circulate the document for input from Call 2 projects (and potential minor updates by Call 1 projects). It was agreed that all projects should provide input for the Reference Figure 2025.

On the Vertical Engagement Tracker, so far 185 use cases from 45 projects have already been added to the tool.

Project Collaboration, Event Tracking / Planning: New events were added by a couple of projects. Information was circulated about two upcoming interesting Webinars: 1) SNS ICE / GUIDE: Automotive, Transport & Logistics Solutions Webinar 2) 6G IA new Vision Paper webinar. Besides, Trials.Net & 6G4Society have been working on a workshop on KVIs. SNS ICE (CSA) has represented the SNS JU at 5G Techritory 2024 promoting the work of SNS JU projects with the provided videos.

4.13   TB meeting #13: 17/12/2024 – Online

The first topic of the meeting was the TB Sustainability TF. The task leader has informed that the Questionnaire interviews have been completed with a total of 27 project interviews. Besides they have received around 10 Co-editor volunteers. It was agreed that the Sustainability TF should participate in a workshop at EuCNC 2025 and TF would now prioritize the creation of the internal report with some first key results & insights.

AI/ML Work / White Paper: The Core team has made significant progress with the White paper, it is nearly ~90% ready. Targeted timeline: Approval by SB & publication by end of January 2025. All contributors were asked to add their names to the AI/ML White Paper. Two persons volunteered to review the white paper.

The SNS JU Reference Figure 2025 received more input: 26 of 27 Call 2 projects have provided input. It has been agreed that the TB Chair should ask for support for preparing a appealing design of the figure.

Vertical Engagement Tracker (VET): Call 2 input were thoroughly updated, including Call 1 + Call 2 Project Uses Cases with a total number of 247 Use Cases.

o   Call 1 input = 30 Projects / 187 UCs

o   Call 2 input = 22 Projects / 60 UCs

Project Collaboration plans for EuCNC 2025 continued. The TB agreed on ways to foster common project proposals for WS and sessions to minimize cross-project competition. An overview of initiatives & potential matches for WS proposals has been created by the TB chairman. All TB members were asked to check the provided file and to declare their interest to participate in the proposed events and contact the respective leading contact point in case of interest.

4.14   TB meeting #14: 14/01/2025 – Online

TB Sustainability TF: The kick-off meeting of the Sustainability Task Force Questionnaire Internal Report preparation has been scheduled for 17 January 2025. It was agreed that the report will be in the format of a comprehensive slide-set. The final White Paper has been targeted to be published before the EuCNC 2025 and presented there as part of the sustainability workshop.

The AI/ML White Paper has already been ready for final review. The ambition was to publish it beginning of February 2025.

The first draft of the SNS JU Reference Figure 2025 has been presented by the TB Chair and asked for potential comments and check of the data.

82 Trials and/or Pilots have been declared in the Vertical Engagement Tracker and the process to create the 1st SNS Trials &Pilots brochure has commenced.

A dedicated folder for the TB f2f meeting in Kista has been created with useful local information &

logistics plus the participants list for the meeting.

Regarding EuCNC 2025, a status update on all ongoing cross-project efforts for session / WS proposals for EuCNC took place during the call, based on the online file created by the TB chairman.

4.15   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 13 shows a snapshot from the SNS-I TB BSCW space.
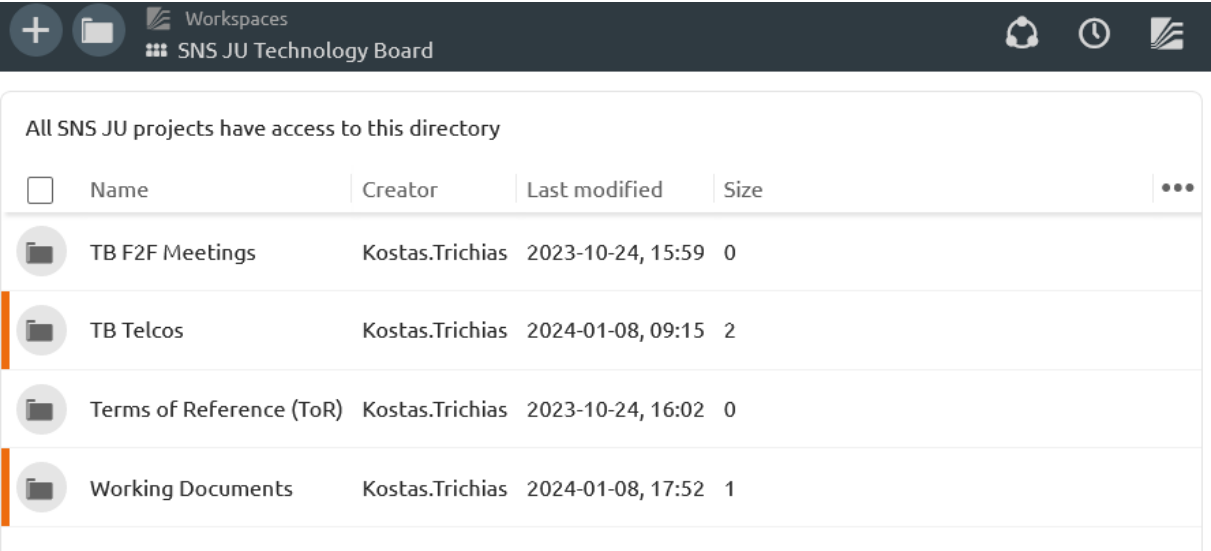
Figure 13: Screenshot of the SNS JU BSCW – TB space

5   Conclusions

In its second year, SNS OPS has been busy with providing the required support for the collaborative activities in the SNS-Initiative.

While in the previous period the focus of activities has been to create the structure and setup the various bodies and groups in the SNS-Initiative (SNS-I), the focus in this period has shifted towards supporting the operation of the established bodies, even though several activities from the setup phase still have been continued.

SNS OPS has supported the update of the SNS-Initiative Collaboration Agreement 2024 and organised its signing. SNS OPS ensured that all 270 parties that participate in the SNS Call 1 projects have signed this updated version, which meant the work of collecting the signatures from Call 1 parties done in 2023 had to be repeated as an additional effort, and collected all but one signatures from the 98 Call 2 project partners. For Call 3 projects that started in January 2025 the process has been started and to date 72% of the parties have already signed. Call 4 of the SNS JU will soon open and will add another round of projects to this community starting from January 2026.

In addition, SNS OPS has provided the support for the SNS-I SB and TB, has organised and run their meetings, prepared minutes, organised the election of the SB and TB Chairs, ensured the correct application of processes as well as openness and transparency of the operations, supported them in various inter-project activities, monitored project participation, ensured tool support and provided various secretarial and meeting support.

While a heavy workload was required in the previous period for the setup activities, the volume of efforts required has not lowered in this period, e.g. due to the integration of Call 2 and Call 3 projects into the joint activities growing the volume substantially, as well as the additional activities related to the update of the SNS-I Collaboration Agreement.

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

SNS OPS will support these activities until its end in March 2025, but has already started with the handover of activities to SNS CO-OP which as the follow-up CSA will manage these activities in future, building on the work of SNS OPS.

Appendix A   Updated list of organisations in the SNS JU Collaboration Agreement

Organisation Name	Country	PIC
5G COMMUNICATIONS FOR FUTURE INDUSTRY VERTICALS SL	ES	896973745
6G SMART NETWORKS AND SERVICES INDUSTRY ASSOCIATION	BE	935632513
A1 BULGARIA EAD	BG	953608941
AALBORG UNIVERSITET	DK	999904034
AALTO KORKEAKOULUSAATIO SR	FI	991256096
ABSTRACT MACHINES,	FR	882199481
ACCELLERAN	BE	942650075
ACP ADVANCED CIRCUIT PURSUIT AG	CH	906093879
ACROMOVE EUROPE SP PC	EL	876659229
ACST GMBH	DE	990879833
ADDITESS ADVANCED INTEGRATED TECHNOLOGY SOLUTIONS & SERVICES LTD	CY	954502214
ADRESTIA EREVNITIKI IDIOTIKI KEFALAIOUXIKI ETAIREIA	EL	893378925
ADTRAN NETWORKS SE	DE	999811787
ADVA OPTICAL NETWORKING SE	DE	999811787
ADVANCED WIRELESS SOLUTIONS AND SERVICES (AW2S)	FR	895626609
aeroLiFi GmbH	DE	889213551
AETNA GROUP SPA	IT	919579595
AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES	999991722
AGRICLOUD S.R.L.	RO	882209569
AIRBUS DEFENCE AND SPACE SAS	FR	999809265
AIRBUS DS SLC	FR	920862323
AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH	AT	999584128
ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA	IT	999993953
ALTICE LABS SA	PT	999911503
AMIRES THE BUSINESS INNOVATION MANAGEMENT INSTITUTE ZU	CZ	897837918
ANTERAL SL	ES	957946490
APA-ADMINISTRACAO DO PORTO DE AVEIRO SA	PT	897197330
APPART AE NEW TECHNOLOGIES COMPUTER AND TELECOMMUNICATIONS	EL	941424286
APPLE TECHNOLOGY ENGINEERING BV & CO KG	DE	886995549
ARCELIK A.S.	TR	998821708
ARCHI PROSTASIAS DEDOMENON PROSOPIKOU CHARAKTIRA	EL	914847935
ARGO IMIAGOGOI ANONYMI ETAIREIA*ARGO SEMICONDUCTORS SOCIETE ANONYME	EL	884233765
ARGOTEC SOLUCIONES INNOVADORAS EN TELECOMUNICACIONES SL	ES	880306914
ARGUS SPACE AG	CH	882087446
ARISTOTELIO PANEPISTIMIO THESSALONIKIS	EL	999895692
ARM LIMITED	UK	999813824
ATHENS INTERNATIONAL AIRPORT S.A.	EL	999484994

Organisation Name	Country	PIC
ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS - RESEARCH CENTER	EL	999896856
ATHINA-EREVNITIKO KENTRO KAINOTOMIAS STIS TECHNOLOGIES TIS PLIROFORIAS, TON EPIKOINONION KAI TIS GNOSIS	EL	999562788
ATHONET SRL	IT	942321342
ATOS IT SOLUTIONS AND SERVICES IBERIA SL	ES	952979120
AURORA POWERTRAINS OY	FI	891881536
AVANTI HYLAS 2 CYPRUS LIMITED	CY	956158392
AXON LOGIC IDIOTIKI KEFALAIOUXIKI ETAIREIA	EL	894850318
B&R INDUSTRIAL AUTOMATION GMBH	AT	970686470
BARCELONA SUPERCOMPUTING CENTER CENTRO NACIONAL DE SUPERCOMPUTACION	ES	999655520
BARKHAUSEN INSTITUT GGMBH	DE	897336040
B-COM	FR	948011362
BEAMAGINE S.L	ES	911685153
BELLANTENNA S.R.L.	IT	878023534
BI2S-BUSINESS AND IOT INTEGRATED SOLUTIONS LTD	CY	905804819
BIFROST COMMUNICATIONS APS	DK	886375525
BI-REX- BIG DATA INNOVATION RESEARCH EXCELLENCE	IT	903031783
BOREAL TECHNOLOGY AND INVESTMENTS SL	ES	890932682
BRAINSTORM MULTIMEDIA SL	ES	999441732
BRITISH TELECOMMUNICATIONS PLC	UK	999908593
BRUNEL UNIVERSITY LONDON	UK	999749610
BUBBLERAN	FR	883591431
CAFA TECH OU	EE	907711936
CAPGEMINI ESPANA SL	ES	971124425
CAPGEMINI PORTUGAL SA	PT	920077981
CENTRALESUPELEC	FR	933906883
CENTRE TECNOLOGIC DE TELECOMUNICACIONS DE CATALUNYA	ES	999638739
CENTRO DE ESTUDOS SOCIAIS	PT	998333895
CERAGON NETWORKS S.R.L	RO	887101570
CHALMERS TEKNISKA HOGSKOLA AB	SE	999980373
CHARITE - UNIVERSITAETSMEDIZIN BERLIN	DE	999992692
CLOUDSIGMA AG	CH	969018264
COGNITIVE INNOVATIONS PRIVATE COMPANY	EL	915396955
COLLINS AEROSPACE IRELAND, LIMITED	IE	971136162
COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES	FR	999992401
COMMSIGNIA Korlatolt Felelossegu Tarsasag	HU	951878461
COMUNE DI TORINO	IT	986538792
CONSERVATOIRE NATIONAL DES ARTS ET METIERS	FR	999645529
CONSORZIO NAZIONALE INTERUNIVERSITARIO PER LE TELECOMUNICAZIONI	IT	999649603
CONSORZIO PER LA RICERCA NELL' AUTOMATICA E NELLE TELECOMUNICAZIONI C.R.A.T.	IT	999655229
Construction Robotics GmbH	DE	889313655
CORIANT R&D GMBH	DE	953414165

Organisation Name	Country	PIC
CROSSMEDIA EUROPE	BE	884545717
CUMUCORE OY	FI	923625077
CYBERETHICS LAB SRLS	IT	915041547
CYBERSOCIAL LAB SRL IMPRESA SOCIALE	IT	884047428
CYENS CENTRE OF EXCELLENCE	CY	906763761
CYENTIFIC AS	NO	883934423
DANMARKS TEKNISKE UNIVERSITET	DK	999990655
DETECON INTERNATIONAL GMBH	DE	996293888
DEUTSCHE TELEKOM AG	DE	999936335
DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV	DE	999981731
DIGITAL CATAPULT	UK	947642277
DIGITAL FOR PLANET-D4P	CH	897171237
DIINEKES S.I. MONOPROSOPI IDIOTIKI KEFALAIOUCHIKI ETAIREIA	EL	884438338
DIMOS ATHINAION EPICHEIRISI MICHANOGRAFISIS	EL	991350089
DIMOSIA EPICHEIRISI ILEKTRISMOU ANONYMI ETAIREIA	EL	999938954
DIREK LTD	UK	905165492
DRAXIS ENVIRONMENTAL SA	EL	996151686
EBOS TECHNOLOGIES LIMITED	CY	997848022
ECOLE NATIONALE SUPERIEURE DE L'ELECTRONIQUE ET DE SES APPLICATIONS	FR	999583643
EFACEC ENGENHARIA E SISTEMAS SA	PT	971832428
EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH	CH	999979015
EIGHT BELLS LTD	CY	917066131
EKTACOM	FR	951474359
ELECTRICITE DE FRANCE	FR	999926829
E-LIGHTHOUSE NETWORK SOLUTIONS SL	ES	908505008
ELLAS SAT ANONYMH ETAIREIA YPIRESIES DORYFORIKON SYSTIMATON KAI EPIKOINONION	EL	953343161
ELLINIKI OMADA DIASOSIS ATTIKIS	EL	923230578
ELLINIKO VRAVEIO EPICHEIRIMATIKOTITAS	EL	896936788
EMC INFORMATION SYSTEMS INTERNATIONAL UNLIMITED COMPANY	IE	959978349
EMNIFY GMBH	DE	882121493
ENTRA ENERGY	BG	903648315
EOTVOS LORAND TUDOMANYEGYETEM	HU	999896468
EREVNITIKO PANEPISTIMIAKO INSTITOUTO SYSTIMATON EPIKOINONION KAI YPOLOGISTON	EL	999654356
ERICSSON AB	SE	999910921
ERICSSON ARASTIRMA GELISTIRME VE BILISIM HIZMETLERI ANONIM SIRKETI	TR	950341108
ERICSSON ESPANA SA	ES	999941088
ERICSSON FRANCE	FR	895532034
ERICSSON GMBH	DE	999944386
Ericsson Limited	UK	882060577
ERICSSON MAGYARORSZAG KOMMUNIKACIOS RENDSZEREK KFT	HU	999944289
ERICSSON TELECOMUNICAZIONI SPA	IT	996447342
ETABLISSEMENT D'ENSEIGNEMENT SUPERIEUR CONSULAIRE GRENOBLE ECOLE DE MANAGEMENT	FR	915102366

Organisation Name	Country	PIC
ETHNICON METSOVION POLYTECHNION	EL	999978142
ETHNIKO KAI KAPODISTRIAKO PANEPISTIMIO ATHINON	EL	999643007
ETHNIKO KENTRO EREVNAS KAI TECHNOLOGIKIS ANAPTYXIS	EL	998802502
EURECOM GIE	FR	999606147
EURESCOM-EUROPEAN INSTITUTE FOR RESEARCH AND STRATEGIC STUDIES IN TELECOMMUNICATIONS GMBH	DE	999912279
EUROPEAN DYNAMICS LUXEMBOURG SA	LU	947337891
EUROPEAN ROAD TRANSPORT TELEMATICS IMPLEMENTATION COORDINATION ORGANISATION - INTELLIGENT TRANSPORT SYSTEMS & SERVICES EUROPE	BE	999785112
F6S NETWORK IRELAND LIMITED	IE	900885658
FOGUS INNOVATIONS & SERVICES P.C.	EL	917691296
FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA	IT	999596447
FONDAZIONE LINKS - LEADING INNOVATION & KNOWLEDGE FOR SOCIETY	IT	916573856
FORSVARETS FORSKNINGINSTITUTT	NO	999789574
FOUR DOT INFINITY INFORMATION AND TELECOMMUNICATIONS SOLUTIONS PRIVATE COMPANY	EL	891912576
FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV	DE	999984059
FRIEDRICH-ALEXANDER-UNIVERSITAET ERLANGEN-NUERNBERG	DE	999995408
FUNDACIO PRIVADA I2CAT, INTERNET I INNOVACIO DIGITAL A CATALUNYA	ES	999583061
FUNDACION CENTRO ANDALUZ DE INVESTIGACIONES DEL AGUA	ES	947977218
FUNDACION CENTRO DE TECNOLOGIAS DE INTERACCION VISUAL Y COMUNICACIONES VICOMTECH	ES	955552336
FUNDACION CENTRO TECNOLOXICO DE TELECOMUNICACIONS DE GALICIA	ES	996369936
FUNDACION DE LA COMUNIDAD VALENCIANA PARA LA INVESTIGACION, PROMOCION Y ESTUDIOS COMERCIALES DE VALENCIAPORT	ES	998709188
FUNDACION IMDEA NETWORKS	ES	999651058
FUNDACION TECNALIA RESEARCH & INNOVATION	ES	999604110
FUNDATIA ORANGE	RO	885831258
FUNDINGBOX ACCELERATOR SP ZOO	PL	951227688
FUNDINGBOX COMMUNITIES SL	ES	911373783
GESTAMP SERVICIOS SA	ES	924115703
GIGASYS SOLUTIONS SL	ES	881119580
GIOUMPITEK MELETI SCHEDIASMOS YLOPOIISI KAI POLISI ERGON PLIROFORIKIS ETAIREIA PERIORISMENIS EFTHYNIS	EL	985034419
GOHM ELEKTRONIK VE BILISIM SANAYI TICARET LIMITED SIRKETI	TR	914716791
GREENERWAVE	FR	903463821
GROUND TRANSPORTATION SYSTEMS ITALIA SRL	IT	885746674
HAUTE ECOLE SPECIALISEE DE SUISSE OCCIDENTALE	CH	999479659
HEWLETT PACKARD ITALIANA SRL	IT	999909951
HEWLETT-PACKARD FRANCE	FR	882048355
HIDRALIA GESTION INTEGRAL DE AGUAS DE ANDALUCIA SA	ES	893067458
HIRO MICRODATACENTERS B.V.	NL	904044463

Organisation Name	Country	PIC
HISPASAT SA	ES	999784530
HOLO-INDUSTRIE 4.0 SOFTWARE GMBH	DE	905786486
HUAWEI TECHNOLOGIES DUESSELDORF GMBH	DE	996543275
HUBER + SUHNER AG	CH	899292045
HUBER+SUHNER POLATIS LIMITED	UK	985958053
IBM IRELAND LIMITED	IE	944973128
ICTFICIAL OY	FI	894353969
IDIADA AUTOMOTIVE TECHNOLOGY SA	ES	999788313
IDRYMA TECHNOLOGIAS KAI EREVNAS	EL	999995893
IHP GMBH - INNOVATIONS FOR HIGH PERFORMANCE MICROELECTRONICS	DE	999606438
III-V LAB	FR	999971546
ILMATIETEEN LAITOS	FI	999591306
IMMERSION	FR	998062974
IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE	UK	999993468
IMST GMBH	DE	999796849
INCIRT GMBH	DE	883592595
INCITES CONSULTING SA	LU	894228257
INDEPENDENT POWER TRANSMISSION OPERATOR SA	EL	953977056
INESC TEC - INSTITUTO DE ENGENHARIADE SISTEMAS E COMPUTADORES, TECNOLOGIA E CIENCIA	PT	999513706
INFILI TECHNOLOGIES SOCIETE ANONYME	EL	932053019
INFINEON TECHNOLOGIES AG	DE	999978918
INFINEON TECHNOLOGIES AUSTRIA AG	AT	999705087
INFINERA UNIPESSOAL LDA	PT	943750734
INFOLYSIS P.C.	EL	915352141
INLECOM COMMERCIAL PATHWAYS COMPANYLIMITED BY GUARANTEE	IE	893373008
INNOCUBE I.K.E.	EL	891624486
INOV INSTITUTO DE ENGENHARIA DE SISTEMAS E COMPUTADORES INOVACAO	PT	999620503
INQBIT INNOVATIONS SRL	RO	895370529
INSTITUT JOZEF STEFAN	SI	999971837
INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET AUTOMATIQUE	FR	999547074
INSTITUT POLYTECHNIQUE DE BORDEAUX	FR	991798035
INSTITUTE OF ACCELERATING SYSTEMS AND APPLICATIONS	EL	999593634
INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS	EL	999654356
INSTITUTO DE TELECOMUNICACOES	PT	999580248
INSTITUTO PEDRO NUNES ASSOCIACAO PARA A INOVACAO E DESENVOLVIMENTO EM CIENCIA E TECNOLOGIA	PT	999578502
INSTITUTO POLITECNICO DO PORTO	PT	991473861
INTEL DEUTSCHLAND GMBH	DE	967538432
INTERDIGITAL EUROPE LTD	UK	950635891
INTERDIGITAL R&D FRANCE	FR	898815096
INTERNET INSTITUTE, COMMUNICATIONS SOLUTIONS AND CONSULTING LTD	SI	946634059
INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM	BE	999981149

Organisation Name	Country	PIC
INTRACOM SA TELECOM SOLUTIONS	EL	999969994
INTRACOM SINGLE MEMBER SA TELECOM SOLUTIONS	EL	999969994
IONOS SE	DE	890193057
IQUADRAT INFORMATICA SL	ES	996237822
ISFM INTELLIGENT SYSTEMS FOR MOBILITY	FR	895942538
ISRD SP Z O.O.	PL	889804087
ITALTEL SPA	IT	886601147
IUVO SRL	IT	929242056
JOHN DEERE GMBH & CO. KG*JD	DE	951777872
JSIO LDA	PT	877943218
K3Y	BG	905140563
KARLSRUHER INSTITUT FUER TECHNOLOGIE	DE	990797674
KARLSTADS UNIVERSITET	SE	999874837
KATHOLIEKE UNIVERSITEIT LEUVEN	BE	999991334
KEYSIGHT TECHNOLOGIES BELGIUM	BE	939097256
KEYSIGHT TECHNOLOGIES DENMARK APS	DK	939084937
KEYSIGHT TECHNOLOGIES FINLAND OY	FI	955188295
KEYSIGHT TECHNOLOGIES SPAIN SL	ES	919967692
KING'S COLLEGE LONDON	UK	999981052
KINGSTON UNIVERSITY HIGHER EDUCATION CORPORATION	UK	999864652
KONINKLIJKE KPN NV	NL	951644691
KUNGLIGA TEKNISKA HOEGSKOLAN	SE	999990946
L.M. ERICSSON LIMITED	IE	999946326
LENOVO DEUTSCHLAND GMBH	DE	917812643
LIGENTEC SA	CH	916439026
LIGHTBEE SL	ES	934490144
LINKOPINGS UNIVERSITET	SE	999852236
LIONIX INTERNATIONAL BV	NL	918272908
LULEA TEKNISKA UNIVERSITET	SE	999876874
LUNDS UNIVERSITET	SE	999901318
LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	LU	934320200
MAGISTER SOLUTIONS OY	FI	954912233
Magna Electronics Sweden AB	SE	906872013
MARPOSS MONITORING SOLUTIONS GMBH	DE	953485945
MARPOSS SOCIETA PER AZIONI	IT	899722046
MARTEL GMBH	CH	999695387
MARTEL INNOVATE BV	NL	889777703
Massive Beams GmbH	DE	879907662
MATSUKO S.R.O	SK	929824832
MBRYONICS LIMITED	IE	914787892
MCS DATALABS	DE	940750039
MDCREATE SRL	IT	879089564
MELLANOX TECHNOLOGIES LTD - MLNX	IL	990560024
Menhir Photonics AG	CH	899730485
METAMIND INNOVATIONS IKE	EL	889264185
MITSUBISHI ELECTRIC EUROPE BV	NL	930203423
MONTIMAGE EURL	FR	999716242

Organisation Name	Country	PIC
MPICOSYS - EMBEDDED PICO SYSTEMS SPZOO	PL	985206400
MTU AUSTRALO ALPHA LAB	EE	889769167
NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS"	EL	999978239
NATIONAL INSTRUMENTS DRESDEN GMBH	DE	974894427
NEARBY COMPUTING SL	ES	904712502
NEC LABORATORIES EUROPE GMBH	DE	910561893
NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	NL	999988909
NET AI TECH LTD	UK	888921193
NETCOMPANY-INTRASOFT SA	LU	999702371
NETWORK RAIL INFRASTRUCTURE LIMITED	UK	999540963
NEUTROON TECHNOLOGIES SL	ES	891810241
NEXTWORKS	IT	996613600
NH APPART HOLDING LTD	CY	882512209
NOKIA DENMARK AS	DK	996116087
NOKIA NETWORKS FRANCE	FR	950760051
NOKIA SOLUTIONS AND NETWORKS GMBH &CO KG	DE	999940603
NOKIA SOLUTIONS AND NETWORKS HELLAS SINGLE MEMBER SA	EL	958872452
NOKIA SOLUTIONS AND NETWORKS ITALIA SPA	IT	900775078
NOKIA SOLUTIONS AND NETWORKS KFT	HU	996375562
NOKIA SOLUTIONS AND NETWORKS OY	FI	999925471
NOKIA SPAIN SA	ES	999806064
NOKIA UK LIMITED	UK	999805579
NOVA ID FCT - ASSOCIACAO PARA A INOVACAO E DESENVOLVIMENTO DA FCT	PT	937405091
NOVA TELECOMMUNICATIONS SINGLE MEMBER SA	EL	985390312
NUBIS IDIOTIKI KEFALAIOUCHIKI ETAIRIA	EL	895483825
NVIDIA DENMARK APS	DK	915433621
NVIDIA GmbH	DE	919708508
NXP SEMICONDUCTORS AUSTRIA GMBH & CO KG	AT	891427091
NXP SEMICONDUCTORS GERMANY GMBH	DE	996753474
OCULAVIS GMBH	DE	916491988
ODIN SOLUTIONS SOCIEDAD LIMITADA	ES	934796858
OHB SYSTEM AG	DE	989360037
OLEDCOMM SAS	FR	916612074
One Reality	SE	887031730
ONE SOURCE CONSULTORIA INFORMATICA LDA	PT	968818347
OPENNEBULA SYSTEMS SL	ES	969580476
OPSYS SENSING TECHNOLOGIES LTD	IL	888933027
OPTARE SOLUTIONS SL	ES	955546225
OQ TECHNOLOGY Sarl	LU	898396638
ORAMAVR SA	CH	893482230
ORANGE POLSKA SPOLKA AKCYJNA	PL	999951079
ORANGE ROMANIA SA	RO	954892445
ORANGE SA	FR	999908981
ORGANISMOS LIMENOS THESSALONIKIS ANONYMI ETAIRIA	EL	998798040
ORGANISMOS TILEPIKOINONION TIS ELLADOS OTE AE (including COSMOTE 999654550)	EL	999792581

Organisation Name	Country	PIC
OSLO UNIVERSITETSSYKEHUS HF	NO	991104000
OULUN YLIOPISTO	FI	999844670
OY L M ERICSSON AB	FI	999942931
PANEPISTIMIO DYTIKIS ATTIKIS	EL	905978255
PANEPISTIMIO DYTIKIS MAKEDONIAS	EL	986185518
PANEPISTIMIO PATRON	EL	999894528
PANEPISTIMIO THESSALIAS	EL	986152150
PARALLEL WIRELESS ISRAEL LTD	IL	885314539
PDM E FC PROJECTO DESENVOLVIMENTO MANUTENCAO FORMACAO E CONSULTADORIALDA	PT	999742335
PHIX BV	NL	907680217
PICADVANCED, SA	PT	934950215
P-NET ANADYOMENA DIKTYA NEAS GENIAS & EFARMOGES IDIOTIKI KEFALAIOUCHIKI ETAIREIA	EL	887635749
POLARITON TECHNOLOGIES AG	CH	901228262
POLITECHNIKA POZNANSKA	PL	999659691
POLITECHNIKA WARSZAWSKA	PL	999884052
POLITECNICO DI BARI	IT	999431159
POLITECNICO DI MILANO	IT	999879881
POLITECNICO DI TORINO	IT	999977754
POLYTECHNEIO KRITIS EL	EL	924773848
PRIVREDNO DRUSTVO ZENTRIX LAB DRUSTVO SA OGRANICENOM ODGOVORNOSCU PANCEVO	RS	898982906
PROMOZIONE PER L INNOVAZIONE FRA INDUSTRIA E UNIVERSITA ASSOCIAZIONE	IT	972458175
PROSEGUR GLOBAL SIS ROW SL	ES	884994439
PROXIMUS LUXEMBOURG SA	LU	951654973
PUBLIC SAFETY COMMUNICATION EUROPE FORUM AISBL	BE	984488212
QAMCOM RESEARCH AND TECHNOLOGY AB	SE	957254007
QUALCOMM CDMA TECHNOLOGIES GMBH	DE	996457430
QUALCOMM France	FR	883340492
QUALTEK SRL	BE	996477412
QUICKSAND	BE	942722340
R2M SOLUTION	FR	916226693
RADCHAT AB	SE	887764662
RAYTRIX GMBH	DE	942467521
REAL WIRELESS LIMITED	UK	935339282
REALWORLD EASTERN EUROPE SRL	RO	887499755
REDZINC SERVICES LIMITED	IE	961330335
RF MICROTECH SRL	IT	970744282
RHEA SYSTEM LUXEMBOURG SA	LU	892309403
RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN	DE	999983962
Rimedo SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA	PL	889374086
ROBERT BOSCH GMBH	DE	999908787
ROMARS SRL START-UP COSTITUITA A NORMA DELL'ART 4 COMMA 10BIS DEL DECRETO LEGGE 24 GENNAIO 2015, N.3	IT	890033416
RUNEL NGMT LTD	IL	934564543
SAFRAN PASSENGER INNOVATIONS GERMANY GMBH	DE	997492129

Organisation Name	Country	PIC
SAMSUNG ELECTRONICS (UK) LIMITED	UK	999765712
SAS IDATE	FR	887114665
SATELIO IOT SERVICES, SL	ES	899480904
SATWAYS-OLOKLIROMENES LYSEIS ASFALEIAS KAI AMYNAS-IDIOTIKI EPICHEIRISI PAROCHIS YPIRESION ASFALEIAS (IEPYA)-ETAIREIA PERIORISMENIS EFTHYNIS	EL	987804060
SCIPROM SARL	CH	999748834
SEQUANS COMMUNICATIONS SA	FR	999687821
SERVICIUL DE TELECOMUNICATII SPECIALE	RO	936947348
SES TECHCOM SA	LU	999584419
SIDROCO HOLDINGS LIMITED	CY	912316332
SIEMENS AKTIENGESELLSCHAFT	DE	999987260
SIEMENS AKTIENGESELLSCHAFT OESTERREICH	AT	999953601
SIEMENS INDUSTRY SOFTWARE NETHERLANDS BV	NL	891270824
SIEMENS INDUSTRY SOFTWARE OY	FI	888040530
SILICON AUSTRIA LABS GMBH	AT	901837907
SIMTEL TEAM SA	RO	882137595
SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN	SG	908901350
SISTIMATA TILEPIKINONION ANTONIS GEORGIOU MONOPROSOPI ETERIA PERIORISMENIS EFTHINIS	EL	906354518
SIVERS WIRELESS AB	SE	968616102
SMART RAIL CONNECTIVITY-CAMPUS (SRCC) EV	DE	878052828
SMILE	FR	904841221
SOFTWARE COMPANY EOOD	BG	969020301
SOFTWARE IMAGINATION & VISION SRL	RO	897024185
SOFTWARE RADIO SYSTEMS LIMITED	IE	937177723
SONY EUROPE BV	NL	899858913
SORBONNE UNIVERSITE	FR	909875521
SOUTH EAST TECHNOLOGICAL UNIVERSITY	IE	886107126
SPACE HELLAS ANONYMI ETAIREIA SYSTIMATA KAI YPIRESIES TILEPIKOINONIONPLIROFORIKIS ASFALEIAS - IDIOTIKI EPICHEIRISI PAROCHIS YPERISION ASFA	EL	999778322
SPARK WORKS LIMITED	IE	891674344
SPHYNX TECHNOLOGY SOLUTIONS AG	CH	916839248
STARION ITALIA SPA	It	912789692
STELLANTIS EUROPE SPA	IT	997740643
STICHTING IMEC NEDERLAND	NL	999577144
STMICROELECTRONICS CROLLES 2 SAS	FR	999750580
STMICROELECTRONICS FRANCE	FR	999909175
SUITE5 DATA INTELLIGENCE SOLUTIONS LIMITED	CY	910462080
Summit TEC Group LTD	CY	896772664
SYNTHARA AG	CH	899425517
TAGES	FR	900534227
TALLINNA TEHNIKAÜLIKOOL	EE	999842536
TECHNIKON FORSCHUNGS- UND PLANUNGSGESELLSCHAFT MBH	AT	999761735
TECHNISCHE UNIVERSITAET BRAUNSCHWEIG	DE	999861257
TECHNISCHE UNIVERSITAET CHEMNITZ	DE	999877844
TECHNISCHE UNIVERSITAET DRESDEN	DE	999897729

Organisation Name	Country	PIC
TECHNISCHE UNIVERSITAET WIEN	AT	999979888
TECHNISCHE UNIVERSITAT BERLIN	DE	999986678
TECHNISCHE UNIVERSITAT KAISERSLAUTERN	DE	999885895
TECHNISCHE UNIVERSITEIT DELFT	NL	999977366
TECHNISCHE UNIVERSITEIT EINDHOVEN	NL	999977269
TECHNISCHE UNIVERSITEIT WIEN	NL	999979888
TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	FI	932760440
TELECOM ITALIA SPA	IT	999908496
TELEFONICA INVESTIGACION Y DESARROLLO SA	ES	917790915
TELEFONICA SA	ES	997255837
TELEKOM SLOVENIJE DD	SI	957062432
TELENOR ASA	NO	999910630
Telit Cinterion Deutschland GmbH	DE	954516279
TEORESI S.P.A.	IT	887959341
TERRAVIEW GMBH	CH	891974171
THALES ALENIA SPACE FRANCE SAS	FR	999908205
THALES ALENIA SPACE LUXEMBOURG	LU	891665420
THALES ALENIA SPACE UK LTD	UK	936556147
THALES DIS FRANCE SAS	FR	890652158
THALES SIX GTS FRANCE SAS	FR	999971934
THE HEBREW UNIVERSITY OF JERUSALEM	IL	999975038
THE NOTTINGHAM TRENT UNIVERSITY	UK	999824494
THE PROVOST, FELLOWS, FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN	IE	999845446
THE QUEEN'S UNIVERSITY OF BELFAST	UK	999992013
THE UNIVERSITY OF BIRMINGHAM	UK	999907526
THE UNIVERSITY OF HERTFORDSHIRE HIGHER EDUCATION CORPORATION	UK	999911115
TOSHIBA EUROPE LIMITED	UK	999958548
TRUST-IT SRL	IT	906664821
TURKCELL TEKNOLOJI ARASTIRMA VE GELISTIRME ANONIM SIRKETI	TR	935067391
TZOYNIPER DIKTYA ELLAS ANONYMI ETAIRIA	EL	887359396
UBITECH LIMITED	CY	926362126
UBIWHERE LDA	PT	991811906
UCLAN CYPRUS LIMITED	CY	951954315
ULTRAVIOLET CONSULT DOO	RS	889724062
UNIVERSIDAD CARLOS III DE MADRID	ES	999899572
UNIVERSIDAD COMPLUTENSE DE MADRID	ES	999874546
UNIVERSIDAD DE CANTABRIA	ES	999880075
UNIVERSIDAD DE GRANADA	ES	999882015
UNIVERSIDAD DE MALAGA	ES	999898311
UNIVERSIDAD DE MURCIA	ES	999844282
UNIVERSIDAD MIGUEL HERNANDEZ DE ELCHE	ES	999851363
UNIVERSIDAD POLITECNICA DE MADRID	ES	999974844
UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II	IT	999976590
UNIVERSITA DEGLI STUDI DI PADOVA	IT	999995602
UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA	IT	999987745

Organisation Name	Country	PIC
UNIVERSITAET BERN	CH	999976493
UNIVERSITAET DUISBURG-ESSEN	DE	999843312
UNIVERSITAT POLITECNICA DE CATALUNYA	ES	999976202
UNIVERSITAT POLITECNICA DE VALENCIA	ES	999864846
UNIVERSITAT ZURICH	CH	999976396
UNIVERSITATEA TEHNICA GHEORGHE ASACHI DIN IASI	RO	999853303
UNIVERSITE DE BORDEAUX	FR	949735440
UNIVERSITE DE VERSAILLES SAINT-QUENTIN-EN-YVELINES.	FR	999837104
UNIVERSITE DIJON BOURGOGNE	FR	999839820
UNIVERSITE DU LUXEMBOURG	LU	999878620
UNIVERSITEIT TWENTE	NL	999900833
UNIVERSITEIT VAN AMSTERDAM	NL	999985708
UNIVERSITETET I OSLO	NO	999975814
UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN	IE	999974359
UNIVERSITY COLLEGE LONDON	UK	999975620
UNIVERSITY OF BRADFORD	UK	999899766
UNIVERSITY OF BRISTOL	UK	999974262
UNIVERSITY OF CYPRUS	CY	999835843
UNIVERSITY OF ESSEX	UK	999856989
UNIVERSITY OF PELOPONNESE	EL	999548238
UNIVERSITY OF PIRAEUS RESEARCH CENTER	EL	999586941
UNIVERSITY OF PORTSMOUTH HIGHER EDUCATION CORPORATION	UK	999847871
UNIVERSITY OF STUTTGART	DE	999974747
UNIVERSITY OF SURREY	UK	999985223
UNIVERSITY OF THE WEST OF SCOTLAND	UK	999589657
VALSTS AKCIJU SABIEDRIBA ELEKTRONISKIE SAKARI	LV	898187700
VIAVI SOLUTIONS FRANCE SAS	FR	900446636
VIAVI SOLUTIONS IRELAND LIMITED	IE	882145937
VIRTUAL OPEN SYSTEMS	FR	968966466
VIVID COMPONENTS GERMANY UG	DE	887005249
Vodafone Group Services GmbH	DE	991001956
VPIPHOTONICS GMBH	DE	950983248
WASEDA UNIVERSITY	JP	999585486
WAVECOM SOLUCOES RADIO SA	PT	998142708
WEST AQUILA SRL	IT	993174077
WINGS ICT SOLUTIONS TECHNOLOGIES PLIROFORIKIS KAI EPIKOINONION ANONYMI ETAIREIA	EL	952269953
XLAB RAZVOJ PROGRAMSKE OPREME IN SVETOVANJE DOO	SI	999773375
YEDITEPE UNIVERSITY VAKIF	TR	997837255
YERBA BUENA VR EUROPE SL	ES	910768600
ZORTENET IDIOTIKI KEFALAIOUXIKI ETAIREIA	EL	897526936
ZURCHER HOCHSCHULE FUR ANGEWANDTE WISSENSCHAFTEN	CH	998291506