



SNS CO-OP – SNS Collaborative Operations and Output Optimisation

D6.2: Period 1 Report on Infrastructure provision and usage

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Abstract

This deliverable summarises the continuity of the activities that are now undertaken by the SNS CO-OP project in the continuity of the SNS OPS project. It provides bespoke IT Services and support for the SNS JU in the first period and year of the SNS CO-OP project from 01 January 2025 to 14 December 2025. It primarily involves the actions that provision, maintain and develop inter-project collaboration facilities and the technical support for the various collaborative tools and websites. It also presents statistics and information about the scale and use of the IT services as employed for the SNS JU community.

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Executive Summary

During its first year, the SNS CO-OP project has successfully ensured the continuity, stability and further evolution of the Smart Networks and Services Joint Undertaking (SNS JU) digital infrastructure and collaboration services, building directly on the work initiated under the SNS OPS and SNS ICE projects. From January to mid-December 2025, SNS CO-OP continued to deliver a comprehensive and integrated set of IT services that underpin programme-wide coordination, communication, dissemination and operational efficiency for a rapidly expanding SNS ecosystem.

A core achievement of this period has been the uninterrupted operation and continuous increased development of the SNS JU website, which serves both as the official public-facing platform of the SNS JU Office and as the central information and collaboration hub for SNS projects and stakeholders. Hosted and operated in full compliance with European Commission security, quality and GDPR requirements, the website has demonstrated high resilience, including effective protection against cyber threats and robust backup and recovery mechanisms. No service outages were recorded during the reporting period, confirming the reliability of the infrastructure despite growing complexity and usage.

The functional scope and content of the website has expanded significantly in response to the evolution of the SNS programme. The dramatic growth in the number of pages, publications, events and stored files reflects the increasing volume of project results, policy documents, white papers and cross-project working groups outputs.

In particular, the deployment of structured tools such as the Key Achievements Hub has strengthened the presentation of project outputs, reinforcing the website's role as a strategic dissemination asset for the programme.

Beyond the website, SNS CO-OP has operated and supported a comprehensive portfolio of collaboration services essential to programme execution. The SNS JU document repository (BSCW) has continued to grow in scale and importance, supporting thousands of documents, structured access for SNS projects, governance bodies and working groups, and real-time collaborative editing. Continuous user support, access management and compliance monitoring have been critical to ensuring effective and secure collaboration across nearly 80 SNS projects and hundreds of participating organisations.

Communication services have remained a cornerstone of community engagement. Mailing lists, newsletters and newsflashes have supported reliable, GDPR-compliant dissemination to a steadily growing subscriber base. The deployment of a new, fully GDPR-compliant email distribution tool further strengthens future communication capabilities.

Additional running services, including the SNS brokerage support for consortium building, webinar and audio conferencing, event registration, questionnaires, consultations and e-voting, have enabled efficient coordination, progress tracking, decision-making and stakeholder engagement at scale. These tools supported hundreds of virtual meetings, public webinars, elections and consultations, contributing to a more sustainable, inclusive and efficient programme operations.

Overall, SNS CO-OP has successfully met its objectives for this first reporting period in the tasks 6.2 and 6.3 by delivering a stable, secure and evolving infrastructure that directly supports SNS JU governance, project collaboration and dissemination of results.

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Abbreviations

3CN	3C Network – Connected, Collaborative Computing
3GPP	Third Generation Partnership Project
6GF	6G Forum
6G-IA	6G Industry Association
AI	Artificial Intelligence
AIOTI	Alliance for IoT and Edge Computing Innovation
AR	Augmented Reality
ATIS	Alliance for Telecommunications Industry Solutions
B5PC	Beyond 5G Promotion Consortium
B6GA	Bharat 6G Alliance
CCSA	China Communications Standards Association
CHIPS-JU	Chips Joint Understanding
CSA	Coordination and Support Action
CSO	Civil Society Organization
DBMS	Database Management System
DG-CNECT	Directorate-General for Communications Networks, Content and Technology
EC	European Commission
ECCC	European Cybersecurity Competence Centre
ECS	Edge Computing System
ECISO	European Cyber Security Organisation
ESA	European Space Agency
ETP	European Technology Platform
ETSI	European Telecommunication Standards Institute
FSTP	Financial Support to Third Party
HE	Horizon Europe
HPC	High Performance Computing
ICT	Information and Communication Technology
IMT-2030	International Mobile Telecommunications - 2030
IPCEI	Important Projects of Common European Interest
ISAC	Integrated Sensing and Communications
ITU-R	International Telecommunication Union – Radiocommunication Sector
KPI	Key Performance Indicator
KSO	Key Strategic Orientation
KVI	Key Value Indicator
MIMO	Multiple Input – Multiple Output
ML	Machine Learning

MNO	Mobile Network Operator
MR	Mixed Reality
NESSI	Networked European Software and Services Initiative
NGA	Next G Alliance
NGMN	Next Generation Mobile Networks Alliance
NGO	Non-Governmental Organization
NTN	Non-Terrestrial Network
NWE	NetworldEurope
PSCE	Public Safety Communications Europe
RAN	Radio Access Network
RIS	Reconfigurable Intelligent Surface
RT	Real Time
SB	Steering Board
SME	Small or Medium sized Enterprise
SNO	Satellite Network Operator
SNS JU	Smart Network and Services Joint Undertaking
SoC	System on a Chip
SRIA	Strategic Research and Innovation Agenda
TB	Technology Board
TF	Task Force
TN	Terrestrial Network
TRL	Technology Readiness Level
TSDSI	Telecommunications Standards Development Society
UAV	Unmanned Aerial Vehicle
VR	Virtual Reality
VSC WG	Vision and Societal Challenges Working Group

1 The SNS JU website

1.1 Background of the SNS JU website

The Smart Networks and Services Joint Undertaking (SNS JU) web presence was created originally by the 6GStart project and then taken over by the SNS OPS project and now by the SNS CO-OP project since January 2025. The current actions of the SNS CO-OP project are to continue this work of constant development of the SNS JU web presence as a robust, secure, and compliant website that aligns with the stringent standards of the European Commission.

The SNS JU website is hosted by Eurescom GmbH in Germany and is managed in strict adherence to the European Union's General Data Protection Regulation (GDPR).

The selected domain for the SNS JU website is <https://smart-networks.europa.eu/>, which operates as a subdomain of the European Commission's main site, europa.eu. Due to this affiliation, the website is required to adhere to rigorous security, compliance, and quality control standards decided by the EC for all JUs. The website's detailed design was conceptualised by the Eurescom GmbH team in December 2022 and finalised in close collaboration with the SNS JU Office.

The development of the website is an ongoing process and SNS CO-OP continues daily with the growth of the SNS JU community and projects to add pages, functionalities, events and publications as the number of projects participating has now reached 80 and is expected to reach around 100 after the Call 3. Closed and previous projects data needing to be still stored.

Majority of the SNS JU projects are now maturing and producing results to be published and promoted. Call 1 projects are closing and generate last mature results that need to be shared and stored on a long term. In addition, a number of SNS position papers are now being generated from the cross-project working groups and these also need to be published and promoted.

The SNS JU Office has established its own agenda for dissemination and promotion activities, as outlined in their 2025 Communications Plan, which need to be supported by SNS CO-OP project via the website and tools in an integrated way.

The SNS CO-OP project is proud to report that the website has now been online for the life of the several projects without any outages.

It must be noted that while the SNS website was initially designed as the SNS project and collaborative community support structure, it has also evolved as the official website of the SNS JU Office. This dual role initially presented challenges, particularly in balancing the prioritization and placement of news.

The SNS CO-OP support team successfully addressed this issue by working with the SNS JU office to strike a balance between supporting the SNS project needs and efficiently relaying SNS Office information. This has been achieved through a well-structured design that highlights both the Office structure and project-related news. On one hand the Office news can be find via a "SNS JU News" section, highlighting high-level news and press releases. On the other hand, project information is shared within a dedicated "Project News" section and a "SNS JU results & tools" integrating the SNS JU Projects Key Achievements 2025 and the three "SNS JU Trackers Tools", including the Vertical Engagement Tracker, the Standards Trackers and KPI Radar.

All information, blend daily thought the homepage, monthly newsflashes and social media presence to keep the community aware of the latest time-sensitive news.

In direct support of the SNS JU Office, SNS CO-OP provides the hosting and maintenance of the formal part of the SNS website with the official information on calls, funding opportunities, events, publications, and procurements. The official publications of the SNS JU Office, including all the decisions of the SNS JU GB, are available and stored on the SNS JU website as well.

1.2 Ongoing Maintenance and Development of the SNS JU website

The maintenance of the SNS JU website is along two streams: **Technical Support** to ensure the website is secure and functioning in line with the requirements of an EC JU website and **Technical Development** to support ever-growing demands for features and functions by the community and the SNS JU Office.

The workload is important and is expected to be constant due to the Call 1 projects closing and delivering final results, and will soon be replaced by the last Call 3 projects to start in spring 2026.

Every mail list and communication activity has had to be expanded proportionally to accommodate all participants for so many projects running in parallel. This important turnover in project activity also lead to a lot of micro-management by projects and the working group individually. This means that even relatively simple tasks, like the mail list maintenance, have grown. In fact, the mail list support has grown even more as more and more of the project participant mail servers include new protocols – many of which are not correctly configured by the server owners – making the support of the customers a significant and time-consuming challenge.

The other main part of the website support is the demanding calls on the web team to meet the ever-increasing numbers of requests for website additions, changes, modifications and publications.

Over this first period, from January 2025 to mid-December 2025, the mailing list Web-Support@sns-ju.eu dedicated to updating the SNS JU website and supporting the office has collected nearly 1600 email threads². The chart below shows how the support demands and dialogue via the web support mail account dramatically increased towards the end of the year 2025.

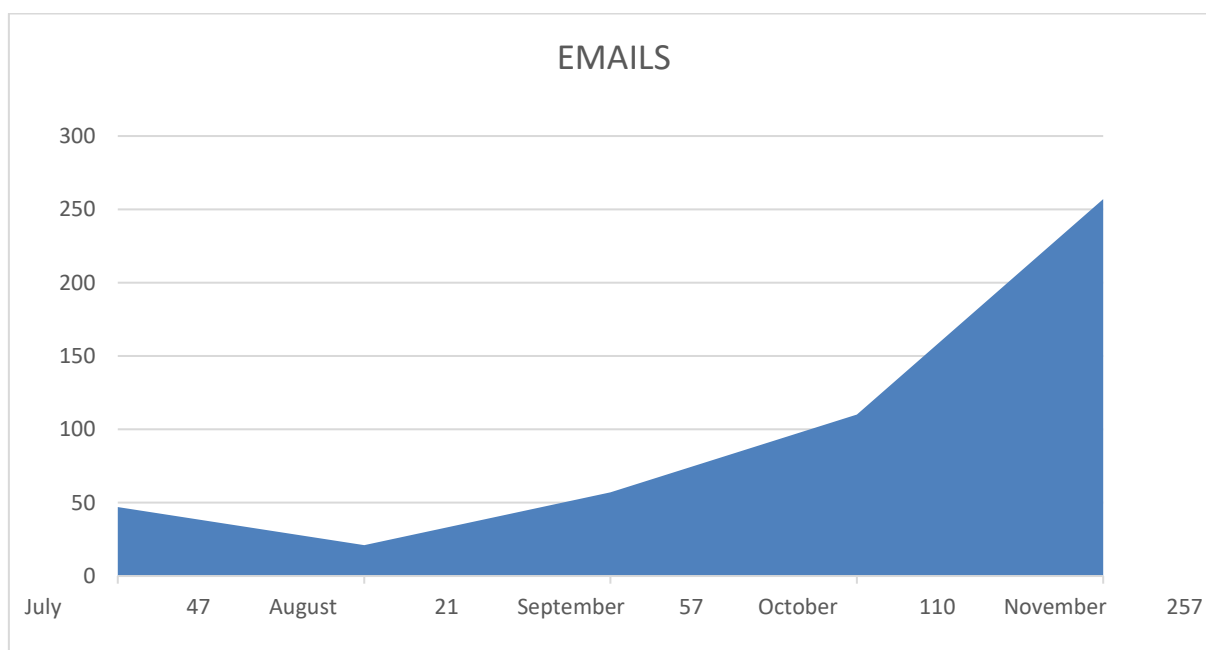


Figure 1: Number of emails to web-support@sns-ju.eu from 01/07/2025 to 30/11/2025

The SNS JU website CMS platform uses WordPress, and a number of software licenses are needed to support aspects of the website's design theme, integration tools to, for example, show our LinkedIn feed, and specialised European tools for data analytics on website access and use.

There is a separate set of tools needed Network Security and firewall provision. Beyond that there is other software for Load balancing & Application delivery in addition to then the underlying web hosting & database management systems (DBMS).

² A series of related emails grouped together, showing the entire communication history on one topic, starting from the original message and including all subsequent replies and forwards.



Figure 2: SNS JU homepage

The website's structure was strategically designed to be scalable, allowing seamless integration of additional project phases in the future. As of the current status, the website encompasses:

Table 1: SNS JU content size

	Active Pages	Published Posts	Scheduled Events	Stored Files	Total Website Size
11/01/2024	116	54	65	8,325	4.8 Gigabytes
06/03/2025	147	114	102	27,920	7.9 Gigabytes
19/12/2025	172	164	126	42,058	9.1 Gigabytes

These figures demonstrate the continued expansion and increasing complexity of the website, reflecting a sustained effort to broaden and enrich its content. Since early 2024, there has been steady growth

across active pages, published posts and scheduled events, indicating a significant rise in project outputs, communications and community activity. The substantial increase in stored files (mainly publications like whitepapers and brochures) and overall website size further suggests a growing volume of supporting materials and resources (mainly project information: results, events, achievements), underscoring the platform's evolving role as a central repository for information dissemination and engagement.

1.2.1 Technical Support of the SNS Website

During this first year period the SNS Ju website infrastructure has been updated several times to ensure all software is the most secure and robust version available.

The website is based on the WordPress³ CMS platform and is hosted on multiple private cloud Linux based virtual machines. The physical hosting servers are self-hosted at Eurescom in Heidelberg (Germany). In addition, off-site cloud servers are deployed in the IONOS Cloud and the Open Telekom Cloud.

To ensure service availability and protect against network attacks, various security mechanisms are implemented: untrusted network traffic is blocked by a Linux based network firewall and by a WordPress application firewall.

To ensure continuity and resilience in the face of such attacks, daily backups of the SNS JU website are made to an offsite storage provider. Furthermore, the virtual machine on which the website is hosted can be relocated quickly to another on- or off-site physical host if needed for host maintenance or physical disaster recovery.

In September 2025 the hosting servers were upgraded to 15th Generation Dell PowerEdge servers. This has shortened the time for backup and recovery procedures and also improved the web site performance to some extent.

Update and configuration management of the SNS website and the hosted SNS project and brokerage websites, is done centrally by means of an integrated WordPress management tool. This ensures all WordPress sites are always up to date.

The site is managed by 4 technical administrators. Whereas the creation and authoring of the website content for the SNS Community is done by up to 10 authors.

The WordPress functionality of the SNS website is extended by the addition of third-party plug-ins (see section 1.2.2 for more details) which are needed to accommodate the demands for ever more complex features and functionalities beyond the basic word press capabilities. These plug-ins also need regular maintenance, updates and configuration changes to ensure they are secure and reliable.

1.2.2 Technical Development of the SNS JU Website - Functional Upgrades

The SNS JU website is continually having new features and functions added to support the community demands and allow the most effective presentation of the contents. Each time a new functionality, not directly supported by WordPress, is requested a process is launched to find the appropriate functionality, test the module offered in an offline environment, and then, if it is safe and secure, to procure and licence the plug-in for use in the website.

To date, around 50 WordPress plug-ins are installed. These are software add-ons that extend the core functionality of the WordPress website. They are essentially like "apps" for a WordPress site.

For each purchased plug-in multiple options were tested until a suitable tool for the demands of the SNS service was found - in each case this had then to be tested for compatibility with the already implemented plug-ins as it is not uncommon for plug-ins to affect existing functionality. Only when such testing is complete and it is clear that a new function will not impact any existing function a new plug in is added to the live website.

The SNS Key Achievements Hub was developed by EURESCOM in a period of 3 months and involves

³ <https://wordpress.org/>

more than 1,200 lines of JavaScript code and 1,250 lines of CSS (Cascading Style Sheets) code. This feature was introduced in November 2025.

1.2.3 Website Analytics and User Tracking

To monitor the SNS JU website traffic and user engagement effectively, the website employs the “Matomo Analytics – Ethical Stats. Powerful Insights.” plug-in. This analytics tool, hosted on Eurescom’s local server, is ensuring our data tracking is in compliance with EC GDPR policies and avoids reliance on external US-based services such as Google Analytics.

Matomo Analytics offers valuable insights into user interactions while respecting privacy regulations. It exclusively tracks human visitors by requiring JavaScript execution, a feature that most bots do not support. Consequently, the reported SNS website statistics focus primarily on genuine human interactions rather than automated bot activity. Additional definitions and explanations regarding user categories such as “New,” “Returning,” and “Unique” visitors are available through the official Matomo Glossary at <https://glossary.matomo.org/>.

1.3 Traffic Report of the SNS JU website

1.3.1 Overview of the SNS JU Website Analytics 2025 in Context of Lifetime Performance (since 2022)

The below statistics in Figure 3 show the visits overview for the SNS CO-OP project’s first year (01/01/2025–14/12/2025). This shows a strong level of visibility and engagement within this period of 12 months.

With 93,159 total visits recorded, 2025 accounts for a substantial share of overall traffic when set against the full website’s lifetime total of 226,069 visits since its launch in December 2022. Page views reached 172,457 (142,163 unique), confirming that SNS JU content rapidly attracted user attention. While the average visit duration slightly decreased to 2 minutes 18 seconds, it remains close to the site-wide average, indicating that users continue to spend a meaningful amount of time engaging with the content. The stable bounce rate of 60% suggests consistent user behaviour compared with previous periods (59% overall).

When compared with the same period one year earlier, the SNS CO-OP year (2025) shows clear evidence of growth in reach and practical use. Visits increased by 35.6%, and page views rose by 20.9%, reflecting heightened interest in SNS JU outputs and activities (see the percentage figures in Figure 3). Most notably, downloads grew by 60.1%, highlighting increased access to deliverables, publications and supporting materials, and reinforcing the project’s role in knowledge dissemination. Conversely, reductions in actions per visit and outlinks⁴ suggest a more focused user journey, with visitors accessing specific resources rather than navigating broadly across external references. This pattern is consistent with and characteristic for a maturing phase, where users arrive with clearer intentions and targeted information needs.

⁴ Hyperlinks on a webpage that direct users to another, external website.

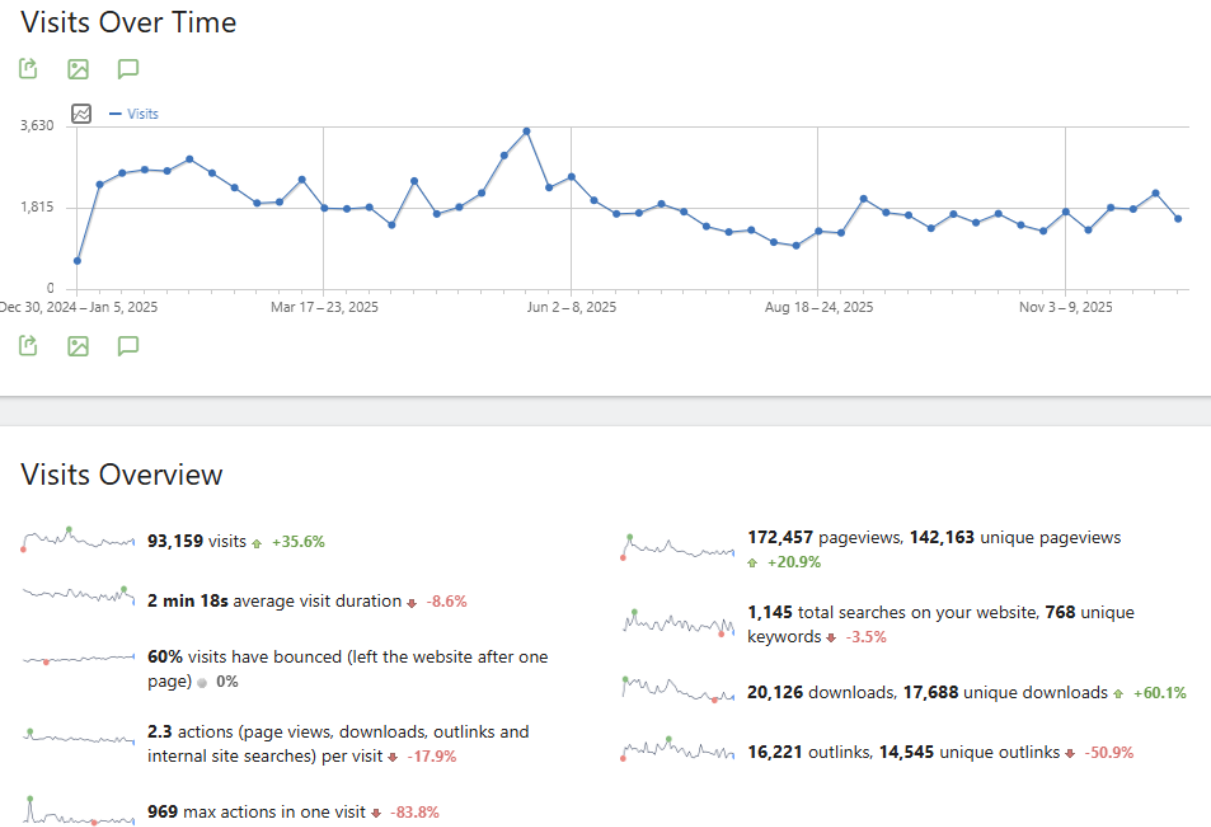


Figure 3: SNS JU Visits Overview for the SNS CO-OP first year (01/01/2025 to 14/12/2025)

Positioned within the full lifetime of the SNS JU website, the period of SNS CO-OP engagement during 2025 contributed over 40% of total visits since 2022 in less than one calendar year (see Figure 4).

Looking ahead, the observed trends align with expectations for continued growth, particularly in downloads and structured content consumption, as the SNS JU advances and its projects deliver further results.

Overall, these numbers highlight the continued growth and expanding reach of the SNS JU website, reinforcing its role as a key information hub for the initiative.

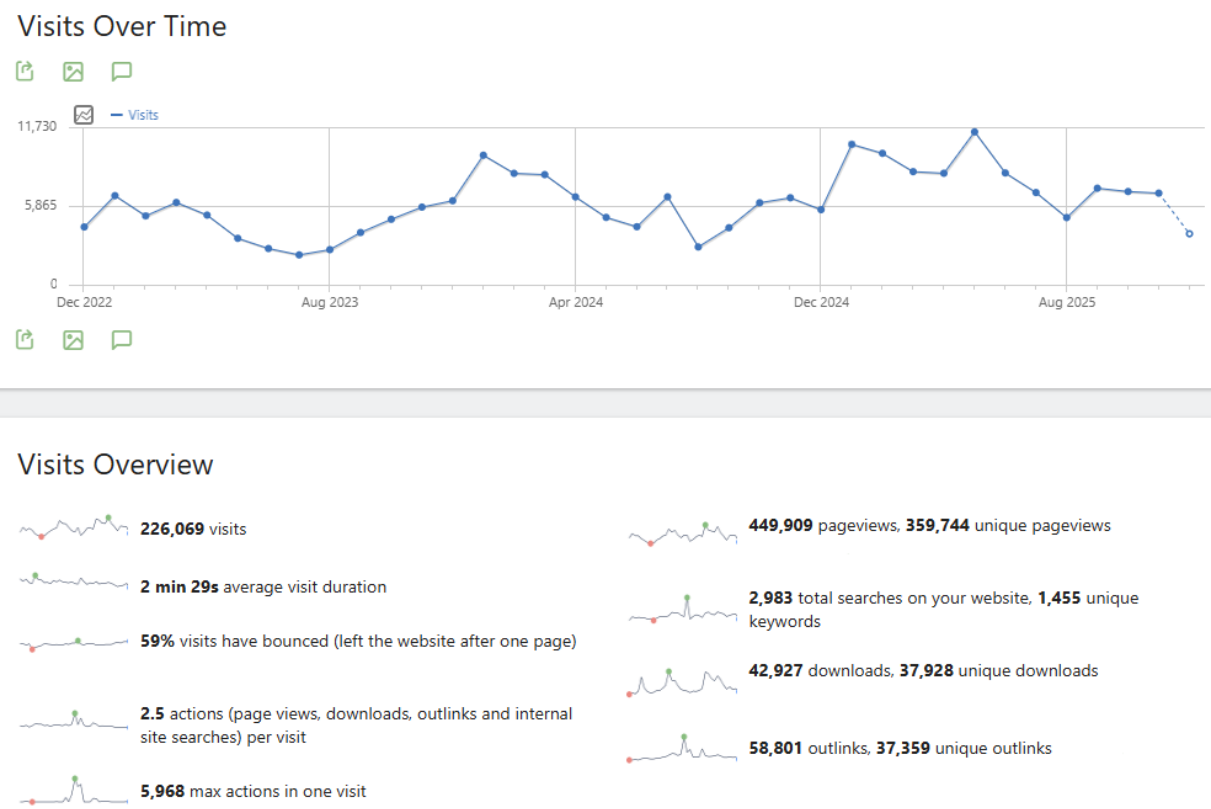


Figure 4: SNS JU Visits Overview since the website launch (01/12/2022 to 14/12/2025)

1.3.2 Overview of the SNS JU Website Analytics during SNS CO-OP first year (01/01/2025 - 14/12/2025)

1.3.2.1 Top 25 Countries Accessing the SNS JU Website

During this first year of SNS CO-OP (01/01/2025–14/12/2025), the SNS JU website recorded 93,159 visits from 170 countries, with Europe accounting for the vast majority of traffic (77,163 visits – see Figure 5).

Spain, Germany, Greece and the United Kingdom were the countries where the majority of visitors were located, reflecting strong engagement from key European stakeholder communities. Still the United States rank among the top five countries, confirming relevance of SNS results beyond the EU.


























COUNTRY	▼ VISITS
 Spain	10,283
 Germany	8,604
 Greece	6,652
 United Kingdom	6,435
 United States	6,284
 France	5,862
 Italy	5,331
 Luxembourg	4,724
 Belgium	4,455
 Finland	3,207
 Netherlands	2,944
 Sweden	2,498
 Türkiye	2,326
 Portugal	1,969
 Ireland	1,791
 India	1,357
 Poland	1,315
 Austria	1,234
 Switzerland	1,143
 China	1,124
 Japan	1,080
 Cyprus	790
 Taiwan	763
 Norway	714
 Romania	697

Figure 5: SNS JU visits by country in 2025 (01/01/2025 to 14/12/2025)

When compared with the website's lifetime (see Figure 6), performance since 2022 (226,069 visits from 193 countries), the SNS CO-OP first year alone represents over 40% of total visits, demonstrating its substantial contribution to overall traffic and visibility.

The continental distribution remains broadly consistent with lifetime trends, with Europe as the core audience, while Asia and North America continue to represent the main sources of non-European traffic.


























COUNTRY	▼ VISITS
 Germany	23,968
 Spain	23,640
 Greece	16,034
 France	14,659
 United Kingdom	13,656
 United States	13,438
 Belgium	12,671
 Italy	12,506
 Luxembourg	11,652
 Finland	7,208
 Türkiye	6,830
 Netherlands	6,122
 Sweden	5,526
 Portugal	4,735
 Ireland	3,842
 Taiwan	3,733
 Switzerland	3,274
 India	3,174
 Japan	2,900
 Poland	2,811
 Austria	2,782
 China	2,299
 Norway	1,964
 Romania	1,801
 Cyprus	1,687

Figure 6: SNS JU overall visits by country (01/12/2022 to 14/12/2025)

From an international exposure perspective, the data confirms that SNS JU results have reached a genuinely global audience, extending well beyond Europe to North America and Asia in particular. The diversity of countries accessing the website suggests growing international awareness of SNS JU activities and positions the website as an increasingly visible reference point within the global research, innovation and policy landscape.

226,069 visits

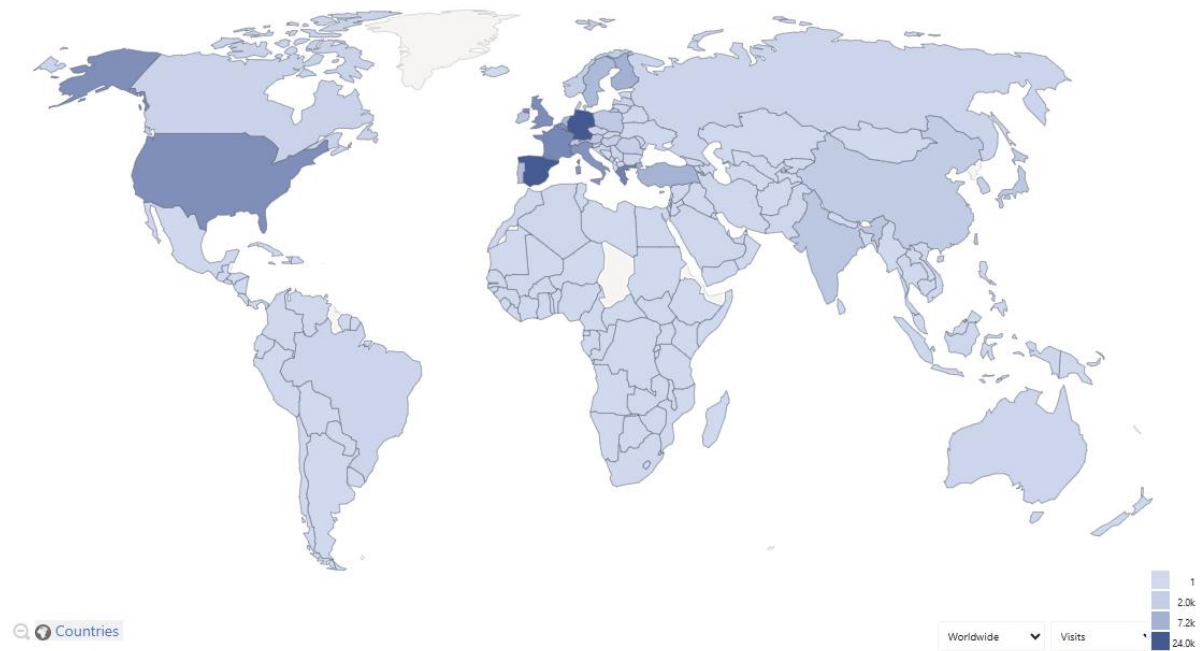


Figure 7: Map of SNS JU overall visits (01/12/2022 to 14/12/2025)

1.3.2.2 Top 20 Pages Accessed by Visitors

During 2025, users' interest in the SNS JU website was strongly concentrated on the high-level menu items such as events, news and programme-related pages.

The homepage, events section and current calls for proposals clearly dominated traffic, together accounting for a substantial share of total pageviews, almost 40% (17.5% + 15.7% + 6.6%). This pattern highlights a strong demand for timely information on funding opportunities, events and official programme updates, reinforced by solid engagement metrics such as average time on page above one minute for most call information and events pages.

Pages related to publications, FAQs and project portfolios were visited often by visitors, indicating sustained interest in concrete outputs and practical guidance.

PAGE URL	▼ PAGEVIEWS	UNIQUE PAGEVIEWS	BOUNCE RATE	AVG. TIME ON PAGE	EXIT RATE
/index	31,173	16.9% 24,013	47%	00:00:50	53%
event	24,526	14.9% 21,240	73%	00:01:12	78%
current-call-for-proposals	14,481	8.4% 12,008	45%	00:01:20	68%
sns-ju-work-programme-2025-released	5,625	3.5% 4,963	46%	00:01:26	75%
sns-publications	5,622	3.4% 4,851	46%	00:01:32	80%
faq-sns-ju-2025-calls	4,261	2.5% 3,617	69%	00:01:44	81%
open-calls-from-sns-projects	3,622	2.1% 2,994	54%	00:01:15	53%
missions-and-objectives	3,386	2.1% 2,988	64%	00:01:10	57%
smart-networks-and-services-call-for-proposals-2025-is-officially-launched	3,166	1.9% 2,721	71%	00:01:16	77%
project-portfolio	3,046	1.7% 2,429	45%	00:01:55	50%
call-3-stream-b	2,458	1.4% 1,935	72%	00:01:35	60%
our-team	2,426	1.6% 2,209	71%	00:01:14	59%
interactive-map-of-sns-projects	2,337	1.4% 2,046	74%	00:01:27	64%
vacancies	2,289	1.5% 2,165	88%	00:00:29	84%
sns-ju-working-groups	1,977	1.2% 1,700	69%	00:01:23	71%
phase-2-stream-b	1,874	1% 1,413	58%	00:01:54	58%
reference-documents	1,819	1.1% 1,554	34%	00:02:22	71%
gouvernance	1,532	0.9% 1,280	48%	00:01:00	35%
eu-invests-more-than-500-million-eur-to-boost-6g-research-and-innovation	1,500	1% 1,355	81%	00:01:00	84%
stream-b-research-for-revolutionary-technology-advancement-towards-6g	1,289	0.7% 968	72%	00:01:52	61%

Figure 8: SNS JU top 20 most visited pages for 2025 (01/01/2025 to 14/12/2025)

When 2025 statistics are set against lifetime figures since the website's launch in December 2022 (see Figure 9 below), the SNS CO-OP's first year represents a significant acceleration in usage of key pages. While more than one-third of all lifetime homepage views and event page views occurred during this single year, the current call for proposals page reached over half of its lifetime pageviews in the same period. Overall, this usage comparison shows that SNS CO-OP has not only reinforced long-standing user journeys but has also intensified their engagement with the website's most strategic content.

The dominance of calls, events and programme pages aligns with expectations for an active project phase and demonstrates that SNS CO-OP promotion activities have become a major driver of page-level traffic across the SNS JU website, contributing decisively to the overall visibility and operational relevance of the SNS JU.

PAGE URL	PAGEVIEWS	UNIQUE PAGEVIEWS	BOUNCE RATE	AVG. TIME ON PAGE	EXIT RATE
/index	89,359	17.5% 63,039	45%	00:00:51	52%
event	66,389	15.7% 56,306	71%	00:01:19	76%
current-call-for-proposals	28,441	6.6% 23,715	47%	00:01:15	63%
missions-and-objectives	10,671	2.6% 9,333	60%	00:01:19	53%
open-calls-from-sns-projects	10,537	2.4% 8,659	63%	00:01:37	64%
stream-b-research-for-revolutionary-technology-advancement-towards-6g	10,427	2.2% 8,045	76%	00:01:48	69%
project-portfolio	9,302	2% 7,245	43%	00:01:33	42%
our-team	8,237	2% 7,339	68%	00:01:10	56%
current-vacancies	7,128	1.8% 6,447	57%	00:00:45	87%
sns-phase-1	7,009	1.6% 5,601	46%	00:01:04	39%
sns-ju-work-programme-2025-released	6,129	1.5% 5,377	46%	00:01:26	76%
reference-documents	5,972	1.2% 4,466	32%	00:02:25	71%
sns-publications	5,622	1.3% 4,851	46%	00:01:32	80%
phase-2-stream-b	5,535	1.2% 4,269	65%	00:01:48	63%
stream-a-smart-communication-components-systems-and-networks-for-5g-mid-term-ev...	5,141	1.1% 3,914	59%	00:01:43	39%
gouvernance	4,941	1.1% 3,967	47%	00:01:02	33%
eu-invests-more-than-500-million-eur-to-boost-6g-research-and-innovation	4,837	1.2% 4,229	82%	00:01:01	86%
vacancies	4,801	1.3% 4,511	80%	00:00:36	78%
6g-research-gets-a-130-million-eur-eu-funding-boost-in-europe	4,720	1.2% 4,150	77%	00:01:05	82%
faq-sns-ju-2025-calls	4,261	1% 3,617	69%	00:01:44	81%

Figure 9: SNS JU top 20 most visited pages overall (01/12/2022 to 14/12/2025)

1.3.2.3 Top 20 Files Downloaded by Visitors

A comparison of the most downloaded files shows that 2025 has been a highly intensive period for document access, strongly shaping the website's lifetime download profile.

Indeed, out of 37,669 total downloads recorded since December 2022, 15,582 (over 40%) occurred during 2025 alone. This confirms that SNS CO-OP has satisfied the user attention on a relatively small number of strategic publications within a single year.

Across both periods, official work programme documents clearly dominate. Over the website's full lifetime, the SNS RI Work Programme 2024 remains the single most downloaded file, reflecting sustained long-term relevance. However, during 2025, the focus shifts decisively towards the latest *SNS JU Research and Innovation Work Programme 2025*, all versions cumulated. This indicates rapid uptake of newly released policy and funding guidance, aligned with active call and implementation phases, in alignment and continuity with the most visited page's statistics view in the last section.

Beyond work programmes, the 2025 period shows a notable diversification of high-performing content compared with the cumulative dataset. White papers, journals, brochures and thematic reports published in 2025 feature prominently among the most downloaded files, whereas the lifetime dataset remains more heavily weighted towards earlier administrative and programme documents accumulated over time.

Overall, this comparison demonstrates that SNS CO-OP has directly supported the objectives of Tasks 6.2 and 6.3 by strengthening the SNS JU website and repository as the central programme support infrastructure and first point of contact for stakeholders.

The strong uptake of work programmes, white papers and thematic outputs confirms the effective maintenance and use of the document repository and publication services, while the growing diversity of downloaded materials reflects the demand for cross-project knowledge sharing and dissemination.

This evolving, content-rich usage pattern illustrates how SNS CO-OP has evolved the website's role as a structured information hub, building on the legacy of the SNS OPS and closely aligned with programme-wide coordination, communication and dissemination activities.





















DOWNLOAD URL	UNIQUE DOWNLOADS	DOWNLOADS
 smart-networks.europa.eu	13,761	15,582
 /wp-content/uploads/2025/05/sns-ju-ri-wp-2025.pdf	2,117	2,392
 /wp-content/uploads/2024/12/sns-work-programme-2025_final-publication.pdf	2,011	2,315
 /wp-content/uploads/2024/12/sns-ju-ri-wp-2025_final-publication.pdf	1,404	1,578
 /wp-content/uploads/2025/02/ai_ml_white-paper-sns_tb_v1.0.pdf	450	505
 /wp-content/uploads/2025/04/amended-sns-ju-ri-wp-2025.pdf	356	406
 /wp-content/uploads/2025/06/archwg-whitepaper-v1.3-final-23may_clean.pdf	354	420
 /wp-content/uploads/2023/11/sns-ri-work-programme-2024.pdf	322	345
 /wp-content/uploads/2025/05/sns-journal-2025-web-1.pdf	228	252
 /wp-content/uploads/2025/05/sns-ju-white-paper-6g-kvis-survey-2025_final-1.pdf	210	241
 /wp-content/uploads/2025/06/sns_tps_brochure_may25_final.pdf	209	243
 /wp-content/uploads/2025/01/draft-annex-sns-ju-2-awp25-research-innovation-wp....	190	210
 /wp-content/uploads/2025/01/softnet-whitepaper2024-v1.0_final.pdf	185	207
 /wp-content/uploads/2025/02/white-paper-kpis_17_2_2025_for-rel_.pdf	185	225
 /wp-content/uploads/2025/05/sns_ju_sustainabilitytf_whp_june2025_v1.0-1.pdf	180	192
 /wp-content/uploads/2025/06/sns-caar-2024-apr25_v8.2_web_hq.pdf	168	181
 /wp-content/uploads/2025/03/white-paper-kpis_7_3_2025_with-disclaimer.pdf	143	165
 /wp-content/uploads/2025/02/srg_report_national_initiatives_final_for-publication.pdf	125	143
 /wp-content/uploads/2025/01/sns-work-programme-2025-clean-lay-out-18_11_24_f...	119	122
 /wp-content/uploads/2025/01/sns-ju-ongoing-projects-questionnaire-2025_project_...	118	130

Figure 10: SNS JU top 20 most downloads for 2025 (01/01/2025 to 14/12/2025)





















DOWNLOAD URL	UNIQUE DOWNLOADS	DOWNLOADS
 smart-networks.europa.eu	33,380	37,669
 /wp-content/uploads/2023/11/sns-ri-work-programme-2024.pdf	3,497	3,934
 /wp-content/uploads/2024/12/sns-work-programme-2025_final-publication.pdf	2,175	2,519
 /wp-content/uploads/2025/05/sns-ju-ri-wp-2025.pdf	2,117	2,392
 /wp-content/uploads/2022/12/sns_ri_wp_2023-24.pdf	2,040	2,287
 /wp-content/uploads/2024/12/sns-ju-ri-wp-2025_final-publication.pdf	1,538	1,739
 /wp-content/uploads/2023/03/sns_ca_fgiv_2023_01_vn_project_officer_call_coordinat...	1,050	1,114
 /wp-content/uploads/2023/04/sns_ca_fgiv_2023_01_vn_projectofficer_call_coordinator...	967	1,034
 /wp-content/uploads/2023/11/sns-ju-annual-work-programme-2024.pdf	923	1,043
 /wp-content/uploads/2025/02/ai_ml_white-paper-sns_tb_v1.0.pdf	450	505
 /wp-content/uploads/2023/03/sns_ca_fgiv_2023_01_application_form_projectofficer_c...	399	449
 /wp-content/uploads/2025/04/amended-sns-ju-ri-wp-2025.pdf	356	406
 /wp-content/uploads/2025/06/archwg-whitepaper-v1.3-final-23may_clean.pdf	354	420
 /wp-content/uploads/2022/10/snsriworkprogramme20212022_ckvqrabs7gkb08dhgl6...	331	353
 /wp-content/uploads/2024/05/sns-journal-2024-web_pdf	329	369
 /wp-content/uploads/2022/12/sns-work-programme-2023.pdf	305	361
 /wp-content/uploads/2023/05/sns-journal-2023-web-1.pdf	293	314
 /wp-content/uploads/2025/05/sns-journal-2025-web-1.pdf	228	252
 /wp-content/uploads/2024/07/sns-ju_annual_activity_report-2023-ef-esigned.pdf	215	249
 /wp-content/uploads/2023/03/snsjuprogramme_communicationguidelines_v1.7.pdf	210	241

Figure 11: SNS JU top 20 downloads full life time (01/12/2022 to 14/12/2025)

1.3.2.4 Top 25 Outlinks Through Which Visitors Exit

The outlink trends on the SNS JU website provide valuable insights into visitor interests and engagement, allowing us a preview of what visitors interest post-visiting us.

The comparison of outlink activity shows that during the SNS CO-OP first year (01/01/2025–14/12/2025), user engagement with external resources remained strongly aligned with the website’s role as a programme-wide information hub, as foreseen under Tasks 6.2 and 6.3. Out of a total lifetime of 58,801 clicks, 16,221 occurred in 2025, demonstrating a targeted use of reference resources.

The most accessed outlinks in 2025 mirror those seen over the website’s full lifetime, with **cordis.europa.eu** (see Figure 14) and **ec.europa.eu** (see Figure 15) maintaining their top positions, highlighting sustained interest in official projects page via CORDIS, and EU programme text and funding portals links.

High clicks to SNS-related resources such as **sns-brokerage.eu**, **6G-IA.eu**, and **sns-trackers.sns-ju.eu** confirm the integration of SNS activities and results within cross-project technical work, dissemination of project outputs, and coordination within the SNS community.

Social and media platforms, particularly LinkedIn and YouTube, continue to attract notable attention, reinforcing the active promotion of SNS JU outputs across social media channels, in line with the emphasis on leveraging social networks for visibility and engagement.

Overall, the 2025 outlink pattern reflects a maturing user behaviour: visitors are directed efficiently to authoritative programme-level resources, project outputs, and external knowledge repositories, illustrating how SNS CO-OP has enhanced the website's function as a central coordination, communication, and dissemination hub, fully supporting the objectives of both SNS Programme Support Infrastructure (T6.2) and SNS JU Infrastructure (T6.3).





















CLICKED OUTLINK	UNIQUE CLICKS	CLICKS
 cordis.europa.eu	2,570	2,867
 ec.europa.eu	2,113	2,315
 www.linkedin.com	817	928
 sns-brokerage.eu	598	658
 outlook.office.com	581	633
 6g-ia.eu	547	613
 europa.eu	443	507
 urldefense.com	408	449
 sns-trackers.sns-ju.eu	325	341
 www.google.com	325	341
 www.youtube.com	269	306
 6g-xr.eu	267	286
 envelope-project.eu	248	282
 bit.ly	203	246
 www.eucnc.eu	192	219
 6gpath.eu	157	169
 youtu.be	143	160
 www.mwcbarcelona.com	130	147
 twitter.com	125	153
 outlook.live.com	115	120

Figure 12: SNS JU outlinks most used in 2025 (01/01/2025 to 14/12/2025)

CLICKED OUTLINK	UNIQUE CLICKS	CLICKS
+ cordis.europa.eu	6,147	7,047
+ ec.europa.eu	3,917	4,272
+ www.linkedin.com	2,088	7,756
+ 6g-ia.eu	1,362	1,551
+ sns-brokerage.eu	1,349	1,481
+ outlook.office.com	1,149	1,249
+ www.youtube.com	1,117	9,815
+ www.google.com	742	764
+ 6g-bricks.eu	736	824
+ twitter.com	669	2,932
+ imagineb5g.eu	668	757
+youtu.be	660	736
+ 6g-sandbox.eu	609	707
+ sns-trackers.sns-ju.eu	598	1,302
+ www.eucnc.eu	585	665
+ fidal-he.eu	553	628
+ www.6g-xr.eu	492	552
+ urldefense.com	461	508
+ europa.eu	452	516
+ digital-strategy.ec.europa.eu	369	407

Figure 13: SNS JU top overall outlinks (01/12/2022 to 14/12/2025)












CLICKED OUTLINK	UNIQUE CLICKS	CLICKS
 cordis.europa.eu	6,147	7,047
 /project/id/101136314	195	235
 /project/id/101096573	160	200
 /project/id/101096954	127	149
 /project/id/101139048	118	137
 /project/id/101096479	112	129
 /project/id/101139282	112	126
 /project/id/101139031	109	123
 /project/id/101139257	109	134
 /project/id/101139068	105	124
 /project/id/101139120	104	127

Figure 14: Top 10 Cordis Europa outlinks (01/12/2022 to 14/12/2025)












 ec.europa.eu	3,917	4,272
 /info/funding-tenders/opportunities/portal/screen/opportunities/calls-for-proposals?c...	1,037	1,138
 /info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/HORIZO...	600	676
 /info/funding-tenders/opportunities/portal/screen/opportunities/topic-search?keywor...	421	447
 /info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode...	346	369
 /info/funding-tenders/opportunities/portal/screen/opportunities/topic-search?keywor...	310	334
 /info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode...	299	322
 /info/funding-tenders/opportunities/portal/screen/home	174	191
 /research/participants/docs/h2020-funding-guide/other/event250313.htm#general-info	100	104
 /info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode...	86	94
 /info/funding-tenders/opportunities/portal/screen/opportunities/topic-search;callCode...	63	70

Figure 15: Top 10 EC-Europa outlinks (01/12/2022 to 14/12/2025)

2 Programme Document Repository

A document sharing web service BSCW has been set up to provide a document repository for the various bodies and working groups of the SNS JU. It also acts as a repository for deliverables and documents shared between projects. The SNS JU BSCW repository supports co-editing documents in real time. This was achieved by integration of the ONLYOFFICE Docs service⁵ into BSCW⁶.

The SNS JU BSCW repository⁷ currently supports 186 login accounts, many of which are project level accounts being used by multiple users, i.e. by all SNS JU project participants.

The SNS JU BSCW repository is operational since September 2023 and currently (mid-December 2025) has 20,430 (for comparison, Dec 2024: 7,688) documents stored in 3,490 (Dec 2024: 1,761) folders with a total size of 160.5 Gigabytes (Dec 2024: 135.5 Gigabytes). Figure 16 shows the directories that currently exist at root level.

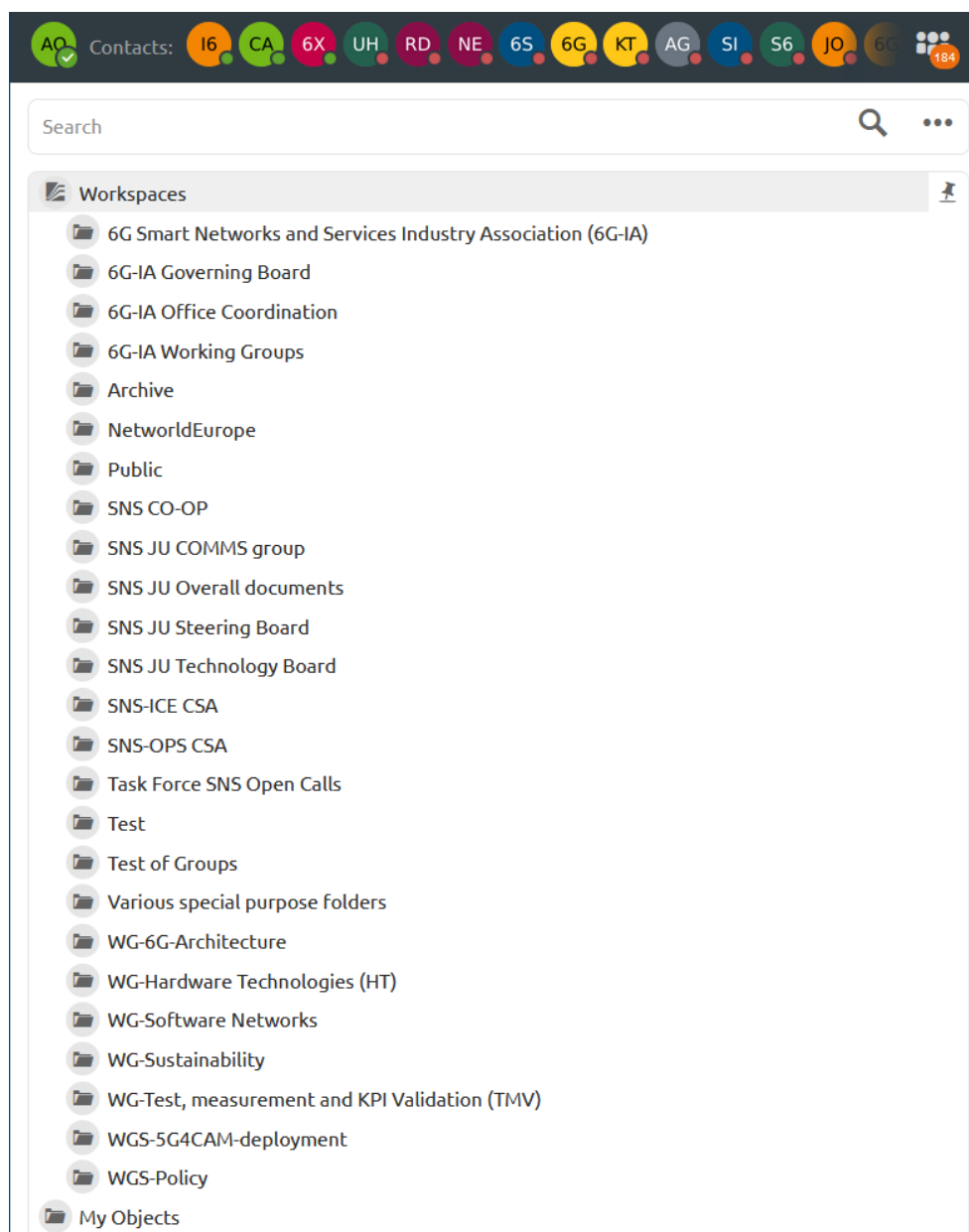


Figure 16: Main Document Workspaces (December 2025)

⁵ <https://www.onlyoffice.com/office-suite.aspx>

⁶ <https://www.bscw.de/social/>

⁷ <https://bscw.sns-ju.eu/>

During SNS CO-OP RP1 the support activities related to BSCW have focused on the various actions related to access management, content management, technical management and support.

All SNS JU projects receive a project-specific login account to enable them to access to the SNS document repository (BSCW), and more specifically all (and only those) directories to which they should have access. By default, these are the directories for the Steering Board, the Technology Board, the Communications Task Force, and one directory for overall documents and information. These logins are generated for the projects of each SNS Call when they kick off but are only distributed to each project when all beneficiaries of that projects have fully signed the SNS Collaboration Agreement. In the first quarter of 2025 the newly started Call 3 projects have been granted access along with their individual accession to the SNS Collaboration Agreement.

Besides these standard working directories for SNS projects, various other directories exist, e.g. for the Working Groups of the SNS-Initiative (i.e. the inter-project WGs), for the WGs of the 6G-IA in many of which also SNS projects participate, and the Strategic WGs of the SNS General Board (GB). All of them have their own and specific access policy which has to be observed when granting the various groups and stakeholders in SNS access to these directories. This is not a one-time action but a permanent activity where new access is granted and others need to be removed when a person or group joins or leaves the activities.

Moreover, there are always also a number of special-purpose directories that are setup on demand, e.g. in the context of the preparation of a Whitepaper where only editors do have access with a personal login that often needs to be created and later removed. Further cases where special directories are or were required include e.g. one for the MWC 2025 preparation, for the SNS Workprogramme preparatory workshops, the preparation of the SNS Trials & Pilots brochure, a joint folder between SNS CO-OP and the SNS JU Office, for the Standardisation Workshop of the SNS Policy Working Group or the 3GPP Use case definition activity.

Besides the creation of folders and access management, SNS CO-OP also takes care of organising the structure for some of the directories, creates new subdirectories or takes care of moving directories and/or files e.g. when an activity has ended or when it was uploaded not to the right location. SNS CO-OP also takes care of managing the content of certain files, e.g. for the Excel spreadsheet where SNS projects enter their representatives in SNS Working Groups.

There is an 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 is 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. SNS CO-OP is monitoring this activity and checks at intervals if projects fulfil this requirement, and sends reminders as necessary.

A major activity is also the support to BSCW users, i.e. everyone in SNS who has access and uses BSCW. This support spans a wide area and different types of actions. Difficulties in logging in and getting access is a major reason for asking for support. Even though the project coordinators are asked to distribute the project-specific login to all partners in the project it is often not done, which means that e.g. project experts do not have access to the work directory of a WG. Sometimes even coordinators don't remember they received their project login. Sometimes wrong login credentials are used e.g. if a project participant is also 6G-IA member and uses the password of the "wrong" group. Other topics where support is requested includes e.g. the use of the joint document editing feature, recovery of accidentally deleted files (only noticed when others miss a file), the assignment of specific access permissions, enquiries about where to find what, etc. In the period further expertise has been gained for being able to recover deleted files or folders, in situations when the user who caused the issue is not available for providing information or supporting the recovery.

Finally, to mention, BSCW requires also the usual maintenance of an IT system, including the upgrading to a newer software release, bug fixing, firewalling and prevention against attacks, making backups, purchase and management of licences (each user login created requires one licence), creation and deletion of individual person or group accounts, etc.

Overall, the operation, management and user support of the SNS BSCW is a sophisticated task that requires highly skilled support staff, that besides the technical competence in the team also requires

having a good overview and knowledge over the various groups of users in SNs, their needs, confidentiality requirements and ways of working.

3 Brokerage Service

3.1 Introduction to Brokerage Service

As a support means for facilitating consortium building for SNS JU project proposals, a brokerage service had been created and introduced. This service allows people to submit either proposal ideas or expertise offer profiles to the Brokerage platform. Each submission is published after approval by the brokerage platform moderator team from the SNS CO-OP CSA. Proposal ideas may be posted without publishing the idea owner's identity if they only wish to be contacted via the Brokerage platform.

The platform offers search and contact request forms which allows idea proposers to find matching partners for a project consortium and companies to find interesting proposal ideas to cooperate in.

The Brokerage Service⁸ has been operational to support Horizon Europe proposals and SNS JU calls since December 2023.





 Submit a proposal/ idea	<p>1. For Idea owners or proposal leaders: To post your project ideas so prospective partners can ask to join with you.</p> <p><i>The key information needed if you want to announce your idea or proposal is: what you want to do, exactly which call of the work programme you plan to address, which SNS goals will you contribute to, and what competences or participants (SMEs, academics, industry, etc.,) do you need. You may do this as the potential coordinator of a proposal or you may do it with your idea just to find like-minded people to form a consortium. Proposal or Idea owners may keep their identity private and any interests in your proposal/idea will be forwarded to you.</i></p>
 Submit your expertise	<p>2. For offers of Expertise: (participants looking for projects) To post your profile and indicate your interests so prospective partners can find you.</p> <p><i>Here you can share your profile and competence for all to consider. The key information needed here is what sort of organisation you are (SMEs, academics, industry, etc.,), if you are a member of the 6G IA and can contribute to the IKOP assessment and what expertise you can offer. You should also say specifically which aspects of the call you want to address. (the form allows multiple key words and target areas to be chosen by re-selecting in the drop down lists multiple times). In principle such an offer must include your contact email so you may be contacted. This contact will be made public. PLEASE NOTE: you should avoid multiple postings for individual organisations as these may not be accepted and do not improve your visibility in the search function.</i></p>
 Browse proposals/ideas	<p>3. Link to browse Submitted Proposal Ideas To browse or search project ideas to see if there are any you would like to offer your participation to.</p> <p><i>Key information about ideas and proposals are shared here: what they want to do, exactly which call of the work programme they plan to address, which SNS goals they will contribute to, and what competencies or participants (SMEs, academics, industry, etc.,) do the proposer(s) need. Proposal or Idea owners may keep their identity private and any interest in their proposal/idea will be forwarded to them.</i></p>
 Browse profiles	<p>4. Link to browse Submitted Expertise Offerings To browse or search up loaded profiles to find the competence you need in your proposal(s)</p> <p><i>Here you can look for profiles and competencies you may be interested in your project idea. The key information needed is provided and if the interesting profile you are looking is a member of the 6G IA you can their IKOP assessment and what expertise they can offer. You will be able to see which aspects of the call they want to address. (selected through multiple keywords and target areas chosen by re-selecting in the drop-down lists multiple times). In principle, their email address is shared so they can be contacted.</i></p>

Figure 17: Brokerage Service functionalities

⁸ <https://sns-brokerage.eu/>

3.2 Activities hosted on Brokerage Platform during 2025

At the start of 2025 the Brokerage service was being used by the community to present profiles and ideas for the 3rd and 4th calls of the SNS JU programme.

Streams / Topics
HORIZON-JU-SNS-2025-STREAM-B (RIA)
01-01: Advanced Architectures Systems and Technologies
01-02: Advanced IoT and Device Technologies
02: Wireless Communication Technologies and Signal Processing
03-01: 6G NTN-TN Unification/Integration
03-02: Higher Speed Optical Access Networks and future end-to-end Packet Optical Network Architecture in 6G
04-01: Smart Security / Security Services
04-02: Reliable Services Operation
05: Microelectronic – Front-End Module (FEM)
HORIZON-JU-SNS-2025-STREAM-C (RIA)
01: 6G Telco Cloud and Service Provision enablers
HORIZON-JU-SNS-2025-STREAM-D (IA)
01: SNS Trials and Pilots (T&Ps) with Verticals

The service was quite frequently used and, in total, 48 expertise profile and 8 project proposal ideas were published. These publications were contacted by more than 90 people seeking more information or collaborations.

In December 2025 the Brokerage service was renewed and revised for the forthcoming 5th call of the SNS JU programme. The following topics are now in the brokerage tool and already attracting both profiles and proposals for submission in April 2026.

HORIZON-JU-SNS-2026-STREAM-B (IA)
01: Collection, Generation and Validation of Datasets suitable for training AI Models for 6G Networks and for AlaaS
HORIZON-JU-SNS-2026-STREAM-C (RIA)
01: SNS experimental infrastructure
HORIZON-JU-SNS-2026-STREAM-CSA (CSA)
01: SNS Operations and Output optimisation
02: 6G Devices
03: EU-IND International Collaboration

4 Mailing Lists

Over 60 mailing lists have been set up for SNS JU and NetworkEurope ETP. The number is quite dynamic and new communication groups are evolving quite frequently. Older lists are retired if not used so the number of lists does also reflect some churn.

The SNS JU mail list server has distributed 1,9 million (until 31 Dec 2024: 1.7 million) emails with a traffic size of more than 406 Gigabytes (until 31 Dec 2024: 341 Gigabytes).

An increasing problem with the support of the mail servers is that many participant domain mail servers are being updated to have stricter anti-spam policies on the mails that can be accepted. Each time this happens there has to be an investigation into the particular circumstances to determine if the receiving server needs to “whitelist” the SNS Domain and/or if the SNS mail servers need to be reconfigured. As there are now 460 unique organisations participating in the SNS JU projects and many other stakeholders in mail lists, the overhead of ensuring all mails are technically compatible with the server configurations all recipients, is becoming a large unplanned task. In order to better deal with these challenges, in 2025 various technical improvements were made to the SNS JU mail list server.

4.1 SNS JU Newsletter and Newsflashes

The SNS JU mail server plays a key role in supporting the distribution of newsletters and newsflashes, enabling structured and reliable communication with the wider community. Stakeholders can subscribe to the SNS JU Newsflashes & Newsletters via a dedicated form on the SNS JU website. Following a double opt-in confirmation, email addresses are automatically added to the relevant mailing lists, with the same mechanism available for unsubscribing at any time. This approach ensures transparency, user control and compliance with data protection requirements.

As of 2025, a total of 4,547 email addresses are subscribed (compared with 3,533 in 2023 and 4,114 in 2024), demonstrating steady growth of the audience.

These subscriptions include 3,678 contacts collected via the former 5G-PPP website and 869 subscribers registered directly through the SNS JU website since December 2022. The increasing volume of newsletters and newsflashes sent each year further reflects the growing importance of this channel for timely and targeted information dissemination.

Table 2: Number of subscribers to the SNS JU newsflashes and newsletters

Mailing list source	Number of subscribers
Newsletter collected via the 5G-PPP website	3,678
Newsletter collected via the SNS JU website (since Dec 2022)	869
Total subscribers (2025)	4,547

Given the size and diversity of the SNS JU community, strict adherence to GDPR principles is essential. The use of explicit consent, double opt-in procedures, and straightforward unsubscribe options ensures that personal data is handled lawfully, securely and responsibly. This GDPR-friendly approach not only safeguards individual rights but also strengthens trust and long-term engagement within the SNS ecosystem.

In addition, under SNS CO-OP, a new built-in email distribution tool has been installed and will become operational in January 2026. This solution will enable the creation and delivery of customised, visually enhanced email templates designed to maximise engagement and relevance for different audience segments. Fully hosted on the Eurescom server in Germany, the tool operates under complete operational control and in full compliance with European data protection legislation, further reinforcing SNS JU’s commitment to secure, effective and trustworthy communication.

NEWSFLASH

SNS JU NOVEMBER 2025 NEWSFLASH

In this last newsflash of November 2025, find back

- a recap of events where SNS JU or the 5G and 6G communities have an impact,
- join the discussion followed by SNS JU projects news
- and do not miss any coming events in the Save-the-Dates !

SNS JU AND TRANSVERSAL NEWS

SNS JU Unveils Its 2025 Top-10 Key Achievements: Leading Europe's 6G Innovation. Have A Look At The Repository And Attend The Dedicated Online Webinar On December 3, 14:00-15:30 CET.

The Smart Networks and Services Joint Undertaking (SNS JU) has revealed its 2025 Top-10 Key Achievements, highlighting the most significant results from ongoing projects across technology development, experimentation, vertical solutions, trials, standards contributions, and sustainability initiatives.

Launched in 2025, this initiative showcases European projects making tangible progress toward 6G networks, from energy-efficient hardware and AI-driven IoT systems to holographic communications, cross-border experimentation platforms, and zero-energy devices.

SNS JU leaders emphasised that these achievements demonstrate the **real-world impact of EU-funded research** and Europe's commitment to sustainable, advanced, and market-ready 6G technologies.

A comprehensive repository of the Top-10 Key Achievements is now available. This online tool is designed to enhance the visibility, transparency, and accessibility of project results.



The SNS JU also hosts a dedicated webinar "From Research to Impact: Exploring the Top-10 Key Achievements of SNS JU Projects" showcasing the 2025 Top-10 Key Achievements, a curated selection of the most significant, innovative, and impactful outcomes generated by projects funded under Calls 1 and 2. The webinar is scheduled online on 3 December 2025 (14:00 – 15:30 CET).

The webinar will include a presentation of the repository, and participants will gain insight into the methodology used for evaluating and selecting the achievements, providing a clearer understanding of how the Top-10 were identified from a broad range of high-quality, competitive results.

The Webinar will feature insights from prominent speakers, including Thibaut Kleiner, Director for Future Networks at the European Commission's DG Connect and Chair of the SNS Governing Board; Erzsébet Fitori, Executive Director of SNS JU; Kostas Trichias, SNS JU Technology Board chairman; Audrey Bievenu, Project Communication Manager at Eurescom GmbH; and representatives from selected projects (6G-REFERENCE; 6G-SANDBOX; 6G-XR; HEXA-X-II; IMAGINE-B5G; SEASON; SUNRISE-6G; SUPERHOT; TrialsNet).

SNS JU TB Published Its White Paper 6G For Media & Entertainment



The recently published SNS JU Technical Board white paper "6G for Media & Entertainment" provides an extensive analysis of the current status of the M&E sector and the promising technologies and features of 6G that will accelerate M&E services into the 2030s. In fact 6G offers major opportunities to transform M&E through hybrid digital-physical events, immersive broadcasting, holographic telepresence, and cloud-native collaborative production.

The paper is available [here](#).

Figure 18: Template for the November 2025 Newsflash

5 Audio and Web Conferences

The Web-conferencing tool, based on WebEx, has been used extensively in the past 12 months by the SNS JU, SNS projects and SNS Working Groups. In fact, over 1,200 (2024: 800) virtual meetings, involving nearly 17,000 (2024: 13,000) participants (an average of 14 participants per meeting) have been hosted in the past period. The majority were internal meetings and there was a significant number of public webinars and external/dissemination events. Having these facilities mean we are enabling the SNS JU to perform much more dissemination than when they used to rely on in person events and operate much more sustainably by reducing travel.

Four meeting rooms are used to support the increasing number of meetings. The figure below shows scheduled meetings in one of the four meeting rooms:



EM	10:30 - 12:30 Mi., 12. März	CENTRIC 8th Plenary Meeting - o... Eurescom Meetings-1	Join
EM	14:00 - 15:00 Mi., 12. März	GUIDE Eurescom Meetings-1	Join
EM	13:00 - 14:30 Do., 13. März	SNS proposal discussion Eurescom Meetings-1	Start
EM	09:00 - 09:30 Fr., 14. März	cyberweek Tokyo Eurescom Meetings-1	Start
EM	10:00 - 11:00 Fr., 14. März	Alignment call with Jens Haala, T... Eurescom Meetings-1	Start
EM	14:00 - 17:00 Fr., 14. März	ESA 5GEOSIS MS3 online review ... Eurescom Meetings-1	Start
EM	11:00 - 12:00 Mo., 17. März	OPTI-6G webex call ⓘ Eurescom Meetings-1	Start
EM	15:00 - 16:00 Mo., 17. März	Paroma-med Eurescom Meetings-1	Start
EM	10:00 - 11:00 Di., 18. März	SNS CO-OP plenary telco Eurescom Meetings-1	Start

Figure 19: Scheduled WebEx meetings in one of the four meeting rooms

6 Event Registration and Questionnaire Services

Within the SNS Website there is a capability to engineer forms to gather information. These forms can be used to gather simple information, like the registration details for events up to complex data - such as the details of project Key Achievements and even allowing the projects to submit more information in attached files (diagrams, excel sheets, etc.). While these forms require some work in the backend of the word press website, they greatly facilitate the assembly of information and the preparation of cumulative reports.

The online registration facilities have been used for a large number of workshops and information days. They consist of a web-based form which gathers information into a database and automatically sends an acknowledgement to the registrant including the Webex details and the data for their calendars. The database information is then used to prepare participant lists and send updated information to the participants.

More complex forms have also been used to enable the community to submit feedback in public consultations e.g. on White Papers. In these cases, an online form captures the information and it is stored in a database. Then the key information is exported to a spreadsheet which the editors of the document use to produce the next version of the document.

In 2025, more than 10 events were organised by the SNS CO-OP team using web registration forms including Brokerage events and new project introduction events. Each time, this included the creation of the registration form, the database and post-event management including the editing and the publication of the event video recording.



Figure 20: Example of an event banner on the SNS Website

Questionnaires for collecting data from projects on behalf of the SNS CO-OP support project are implemented and hosted on the web site.

In 2025, more than 12 questionnaires were updated or newly implemented by the SNS CO-OP team. This work involves taking the questions prepared by the relevant source (e.g. internally by WP1, SNS-I SB, TB, etc.) and designing a suitable form that allows the projects, or whoever is responding, to logically proceed through the questions and submit the desired answers. The answers are captured in a unique database instance and made available to the source team to process the data. Acknowledgements are also sent to the data submitters.

For SNS CO-OP this work has involved the creation of multiple forms, database management and the processing and distribution of the submitted results – anonymised where appropriate. Each questionnaire

must also be checked to ensure GDPR compliance and only to ask for necessary and useful data.

The most recent web-based tool development was the on-line implementation of the Replicability Assessment tool. This tool allows the SNS projects to enter their use case details and have the tool assess how replicable each use case could be.

The form can be seen here: <https://smart-networks.europa.eu/replicability-assessment-form-computing/>

The form itself contains 34 Questions under 5 headings and calculates the Replicability factor in real time as the questions are answered.

Technical dimension - 11 Questions (T1-T11):

Horvath, David Kennedy from Eurescom

This assessment dimension would determine if a project result/solution is replicable or scalable from a technical point of view.

T1: Openness of components: Component provides interfaces that could allow easy integration in other environments

- ☐ Easy to integrate in another environment
☐ Difficult to integrate in another environment without expert support
☐ Impossible to integrate in another environment

T1 answer elaboration

T2: Interoperability of components - Standardized device communication API: Provides application developers with uniform and transparent access to physical devices and wearables. (e.g. SCRAL, LinkSmart)

- ☐ Standardised API available
☐ No API available

T2 answer elaboration

T3: Standardized Data Modeling: Allows IoT syntactic and semantic interoperability (e.g. OGC SensorThings API), Standardized Data model available

- ☐ Standardised Data Model
☐ Proprietary data model

T3 answer elaboration

T4: IoT Platform interoperability: Allows the integration with other IoT platforms (e.g. oneM2M, FIWARE, Azure, ..., see SCoIHNet platform catalogue)

- ☐ Component is running on one of the IoT platforms
☐ Component is running on a proprietary platform

T4 answer elaboration

T5: Modularity: Referred to modular IoT architecture that can be customized for a diverse range of applications or, in general, to a design principle that subdivides a system into smaller parts called modules, which can be independently created, modified, replaced, or exchanged with other modules or between different systems

- ☐ Components have been designed with several modules
☐ Components have been designed in one single module

T5 answer elaboration

T6: Compatibility with legacy infrastructure and equipment: The solution is using legacy network

- ☐ The solution is using legacy infrastructure and legacy devices
☐ The solution is using legacy infrastructure and proprietary devices

T6 answer elaboration

Figure 21: Example of part of the Replicability Assessment Questionnaire form

7 eVoting Tool

This tool enables decisions and elections to be held electronically using a secure system where the access and voting rights are controlled, and votes can be casted in a secret manner.

In the reporting period, several positions were up for renewal and the tool was in standby and available if any elections would need to be organised. Specifically, this concerned the election of the vice-chairs of the NetworldEurope SB (in December 2024 / January 2025), the chairs of all NetworldEurope WGs (in March 2025), the SNS-I SB and TB Chairs (in October 2025), and the Chairs of the SNS-I WGs on Software Networks (January 2025) and Sustainability (September 2025).

In practice, elections had to be organised and the eVoting tool has been used only for electing the Vice-Chairs of the NetworldEurope Steering Board for the period 2025-2026. The NetworldEurope SB Vice-Chairs were elected using the eVoting tool given that physical meetings of the NetworldEurope SB to perform a secret election could not be organised. The process has been started in December 2024 with a deadline for voting and announcement of the result in January 2025. The graphical interface of the tool is shown in Figure 22.

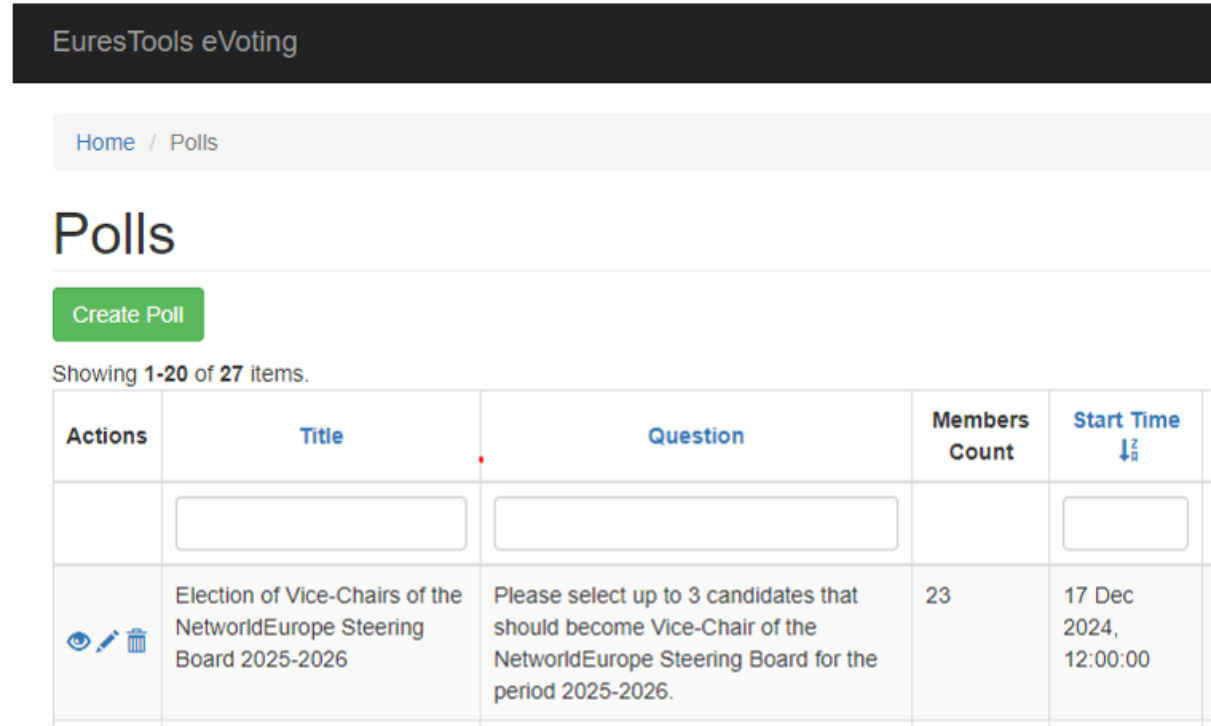


Figure 22: E-voting tool graphical interface (admin view)

For all the other positions that were renewed in 2025 no elections were needed in the end. The reason was that in many cases there was only one candidate for a given position (e.g. for the Chair and Vice-Chair of the SNS SB and TB), and candidates were simply approved by the members of the respective body. In other cases there was more than one candidate for a position. In these cases, however, the candidates agreed among themselves how to resolve that, e.g. who of both will be Chair and who will be Vice-Chair, which also avoided the need for performing elections with proper voting by the group members.

8 GDPR Compliance

All personal information collected in scope of the support activities of SNS CO-OP is strictly handled in line with the EU General Data Protection Regulation (GDPR). Details on the data handling policy are available on the SNS JU web at <https://smart-networks.europa.eu/data-protection-declaration/>

The centrally managed Central Register Data Protection tool that is integrated to the EU general data protection regulation (GDPR) on the SNS JU website, allows users to check how the SNS JU is processing data of data subject categories for different purposes. This tool did not receive any further updates in 2025.

The below figures show the parts of the Data Protection Declaration on the SNS JU site with the Central Register Data Protection tool.



Figure 23: Data Protection Declaration on the SNS-JU site

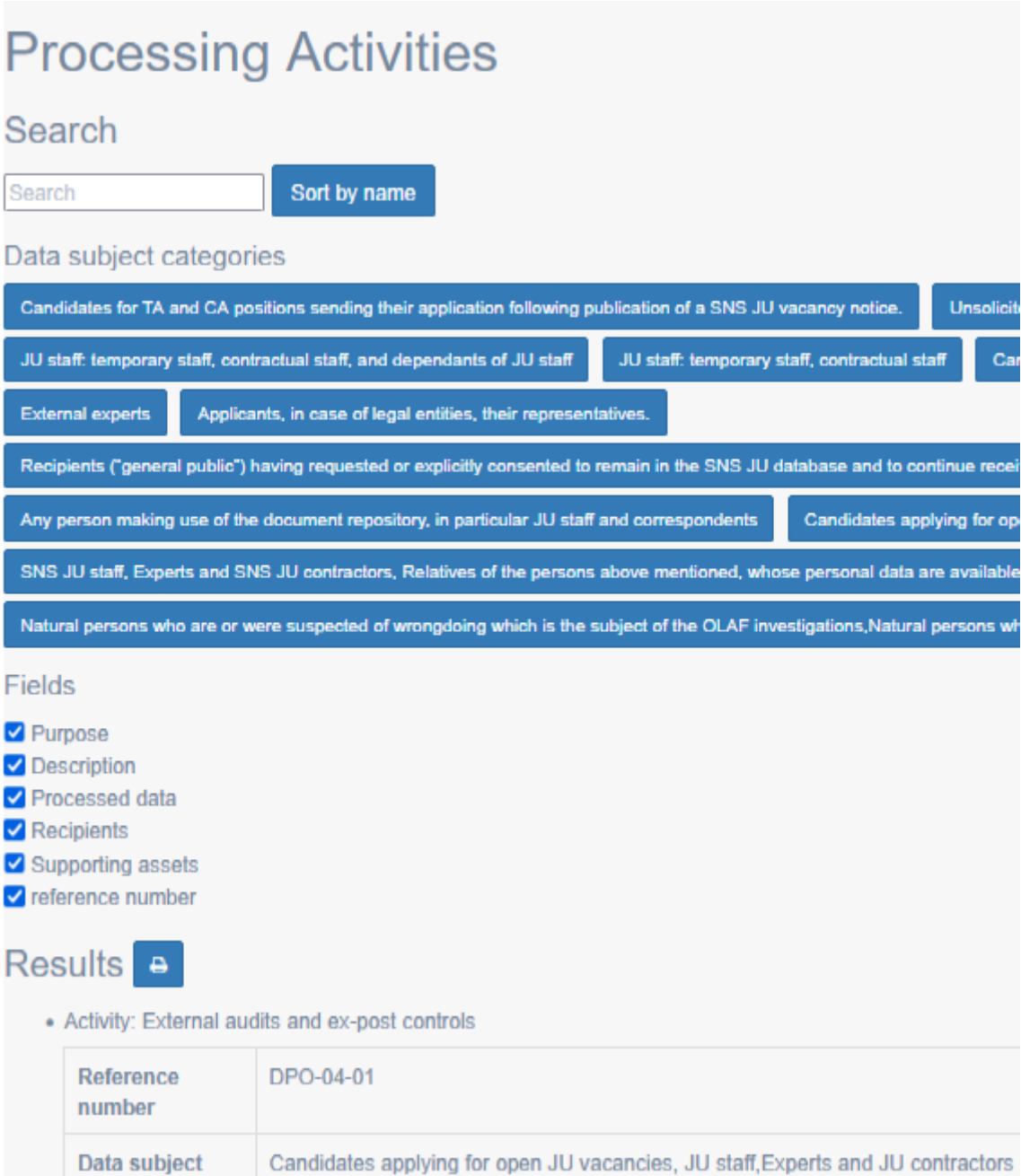


Figure 24: Central Register Data Protection tool

The website analytics tool is GDPR compliant and for supporting cookies the EC Cookie Consent Kit and Banner (CCK)⁹ is used which is also GDPR compliant.

⁹ <https://webgate.ec.europa.eu/fpfis/wikis/display/webtools/Cookie+Consent+Kit+Banner>

9 Conclusion

During its first year and first period, SNS CO-OP has reliably provided the essential robust and adaptable digital infrastructure for supporting the effective operation of the Smart Networks and Services Joint Undertaking. By ensuring a smooth transition between the calls and maintaining uninterrupted service delivery, the project has successfully supported a rapidly expanding and increasingly mature SNS community.

The SNS JU website has evolved into a widely used programme hub, effectively balancing its dual role as the official SNS JU Office platform and as a central point for project collaboration and dissemination of their results. The growing traffic, increased document downloads and sustained international viewing demonstrate the relevance and impact of the services provided in ensuring the impact of the SNS JU. These trends reflect a maturing programme, producing more technical achievements, in which stakeholders increasingly seek structured, reliable and results-oriented information.

Beyond the website, SNS CO-OP has delivered a comprehensive set of collaboration and communication services, including document repositories, mailing lists, conferencing tools, brokerage services and secure decision-making mechanisms. All services have been operated in full compliance with GDPR and European Commission requirements.

Overall, SNS CO-OP has met its objectives for this period and established a strong foundation for preserving project results, supporting new initiatives and further strengthening the SNS JU digital ecosystem in the coming phase.