

SPECTRUM

D2.3 Dissemination, Communications and Exploitation – Final Report

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Abstract	
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This report presents the final outcomes of the dissemination, communication, and exploitation activities conducted during the 30-month runtime of the SPECTRUM project (January 1, 2024 – June 30, 2026). Operating as a Coordination and Support Action (CSA) , the project successfully built a structured Dissemination, Communication, and Engagement (DCE) framework to maximize the visibility and long-term impact of its Key Exploitable Results (KERs).	

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Terminology / Acronyms	
Terminology / Acronym	**Definition**
AMB	Activity Management Board
CoP	Community of Practice
CM	Communications Manager
DoA	Description of Action
DocDB	EGI Document Database
DOI	Digital Object Identifier
EAB	External Advisory Board
EM	Exploitation Manager
GA	General Assembly
GDPR	General Data Protection Regulation
HEP	High Energy Physics
HTC	High-Throughput Computing
HPC	High Performance Computing
KER	Key Exploitable Result
KPI	Key Performance Indicator
MS	Milestone
NDA	Non-Disclosure Agreement
PD	Project Director
PM	Project Manager
PMO	Project Management Office
PO	Project Objective
QRM	Quality and Risk Manager
RA	Radio Astronomy
RI	Research Infrastructure
SRIDA	Strategic Research, Innovation and Deployment Agenda
SSO	Single Sign On
TB	Technical Blueprint
WG	Working Group
WP	Work Package
WPL	Work Package Leader

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Executive summary

This document serves as the final report (D2.3) for Work Packages 1 and 2 (Tasks 1.3 and 2.3), detailing the implementation and final impact of the SPECTRUM Dissemination, Communication, and Exploitation strategy. The primary goal of these activities was to support the development and adoption of the project's ultimate outputs: the Technical Blueprint (TB) and the Strategic Research, Innovation and Deployment Agenda (SRIDA) for an Exabyte-scale research data federation and compute continuum in Europe.

Outreach was focused on primary stakeholders in High Energy Physics (HEP), Radio Astronomy (RA), and Advanced Computing environments. Key achievements include the mobilization of the SPECTRUM Community of Practice (SPECTRUMCoP) with 80+ active participants across 6 Working Groups (WGs), a public consultation phase that drove over 1,111 downloads of the strategic drafts from Zenodo, and a high-profile final event in Brussels featuring pivotal policy representation from the European Commission and EuroHPC. The report maps execution against the key performance indicators (KPIs) originally outlined in Deliverable 1.2, detailing the strategic exploitation pathways established to ensure the sustainability of SPECTRUM's core outputs.

The project targeted its activities towards scientific communities, infrastructure managers, and policymakers (Target Groups 1–3).

- **Community Mobilisation** (KER1): Established an early Community Charter to anchor cooperation, growing the SPECTRUMCoP to 80+ expert participants across 6 specialized Working Groups, exceeding initial plan baselines.
- **Digital Infrastructure & Brand Recognition:** Launched the central project reference hub (www.spectrumproject.eu), accumulating 6,810 visits and 10,906 unique pageviews by June 2026. Strategic network alignment grew the project's LinkedIn presence to 369 followers.
- **Public Consultation & Technical Impact**: Supported the validation of intermediate technical analyses (KERs 2–4) via a dedicated public webinar (60 participants), an expert review panel in Barcelona, and open science distribution on Zenodo - resulting in 1,111 downloads of the draft consultation documents.
- **Policy & Stakeholder Alignment** (KER5, KER6): Culminated on June 3, 2026, with a flagship event in Brussels bringing together 54 registered decision-makers and technical leaders. Keynote presentations from European Commission (EOSC) and EuroHPC representatives successfully bridged the interface between scientific demand and European digital infrastructure funding strategies.

1. Introduction

1.1. Purpose and scope of the document

In the context of Work Packages 1 and 2, tasks 1.3 and 2.3 focus on Communication, Dissemination, Stakeholder Engagement, and Exploitation management activities. This final deliverable describes the activities conducted within these tasks, mapping them with project stakeholders, the project timeline, and the expected targets.

The tasks aimed to effectively communicate project actions and outcomes to primary stakeholders. It emphasised broad dissemination of project results to enhance accessibility and encourage reuse, thereby promoting project success.

The project focused on disseminating the project's Key Exploitable Results (KERs) to diverse audiences. A structured Dissemination, Communication, and Engagement (DCE) strategy (D1.2)[1] was implemented, leveraging branding, digital platforms, events, and strategic partnerships to maximize visibility and stakeholder engagement.

Key T1.2/2.2 activities included:

- Branding and website development
- Audiovisual materials
- Social media campaigns
- Event participation
- Promotion of KERs, Publications and Deliverables

1.2. Project overview

The project's overall objective, to 'Deliver a Strategic Research, Innovation and Deployment Agenda (SRIDA) which defines the vision, overall goals, main technical and non-technical priorities, investment areas and a research, innovation and deployment roadmap for data-intensive science and infrastructures', is addressed through 5 specific Project Objectives (POs) and 6 related Key Exploitable Results (KERs).

In D1.2 the following DCE activities were outlined:

- Creation of a **visual identity and branding**: Create a recognisable style to improve brand recognition
- Ensuring **online presence**: all online channels, including website and social media, have a clear and logical information structure and unambiguous pathway for visitors to find news and updates, project details and event information.
- Provide information about **project progress and outputs**: Stakeholders are informed on how to access and use project outputs - they are openly available, easily accessible and can be reused where needed
- Raising **awareness**: set the scene through enhanced brand recognition to ensure maximum uptake of final project results and outputs.
- Enhance the dissemination of project information by forming partnerships with relevant international organisations and **networks** to broaden the project's reach.
- **Input & Collaboration:** Tailor dissemination efforts to maximise the input and collaboration opportunities for the various stakeholders

[1] SPECTRUM D1.2 Dissemination, Communications and Exploitation Plan. https://zenodo.org/records/12704290

- **Uptake & Implementation**: Tailor dissemination efforts to maximise uptake of project results and outputs, among the project key stakeholders and beyond.
- **Identification of project results and KERs**: Liaise with WPL and project partners to identify project outputs and key exploitable results.
- **IP Management:** Monitor for each of project results Ownership status, IP Rights and Access (e.g., License or Copyright attribution)
- Manages **exploitation** aspects to ensure the uptake of project outputs by the relevant identified stakeholders

2. Overview of Communication and Dissemination activities

2.1. Branding

At the start of the project, a large part of the SPECTRUM visual identity, such as the logo, branding elements and document/presentation templates, were developed quickly and distributed amongst partners via the Communications Toolkit and the Project Brandguide. For extended documentation about the SPECTRUM branding, see D1.2.

During the second half of the project, a new set of branding elements was developed, meeting the needs of project partners to present the project. These included: dedicated logos for KERs, and a specific style for branding the final outputs and events.



Figure 1: SPECTRUM Final Event promotional image

2.2. Website

The SPECTRUM website www.spectrumproject.eu is the central reference point for all project information and outputs. Throughout the project runtime, the contents and structure of the site evolved from displaying information (partners, work packages, intended results) to an information source, linking directly to project results and publications. The website also functions as an announcement platform for news and events, although the statistics tell us that these articles were mainly accessed accelerated by our social media and newsletters.

The website follows a basic structure: About - News & Events - Results - with special emphasis on SPECTRUMCoP and a dynamic homepage highlighting news and results. While the website will be

maintained after the project end date, the Technical Blueprint (TB) and SRIDA will also be presented on specifically designed web pages - keeping project branding but to be promoted as stand-alone outputs. As of June 30th 2026, this design is still underway.

Note that, given the very short window between the delivery of the final results (TB and SRIDA) and the formal end date of the project (June 30), there will be more content added to the website in the summer months and even during autumn. Several blog posts are in preparation and will be used to promote further the project after the end date.

2.2.1. News and Events

The project has published ~30 news items concerning event reports, announcements, partner profiles, and, towards the end of the project, several in-depth news items and blog posts about results. More news items, focusing on the SRIDA and TB, will follow after the end of the project. Some examples:

Partner Profiles:

- **FZJ**
- **SURF**

Deliverable Description:

- **D3.1 Community of Practice**

Consultation:

- **SPECTRUM Consultation**

Final Results:

- **SPECTRUM Final Project Outputs now available**
- **SPECTRUMCoP: sustaining collaboration for the future of data-intensive science in Europe**

Meeting Reports

- **SPECTRUM Experts Meeting**
- **A shared vision for the future of data-intensive science in Europe**

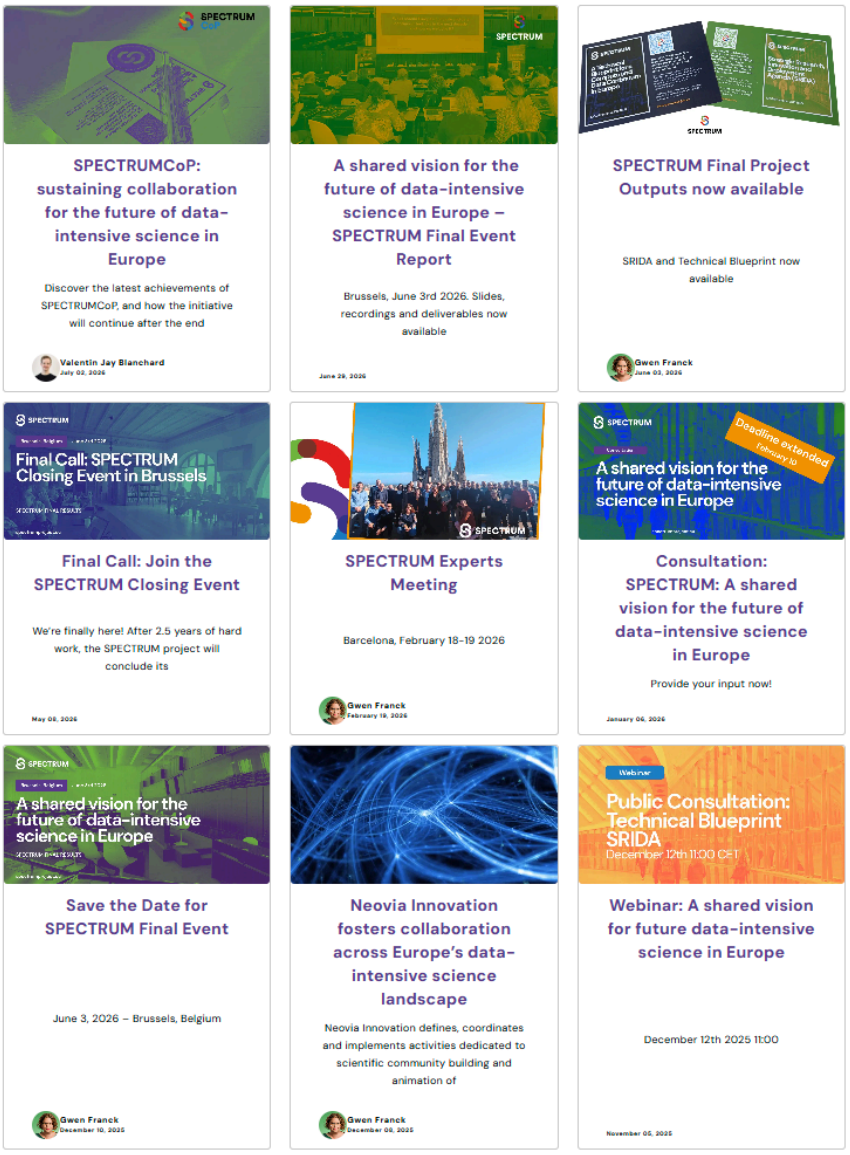


Figure 2: News section on website

2.2.2. Results

Every KER has its own page on the website, where details (including the links to the related deliverables) have been added as the project progressed:

1. SPECTRUMCoP (KER1)
2. Compendium of Use Cases (KER2)
3. Access Policies Recommendations (KER3)
4. Landscape analysis (KER4)
5. Technical Blueprint (KER5)
6. SRIDA (KER6)

Next to these KERs, the Results section also links to the publications (via Zenodo) and the Consultation results.

2.2.3. SPECTRUMCoP

This dedicated section contains information about the SPECTRUMCoP, its purpose, the composition of the working groups, and related news.

2.2.4. Consultations

The consultation page recorded 502 page views, the webinar page 491 unique views, the webinar recording had 95 views, and the **draft documents** were downloaded 1110 times from Zenodo. Of these, 37 users clicked through to the survey and 27 completed responses were available for the analysis presented at the Barcelona SPECTRUM All Hands and Experts Meetings of February 2026[2].

2.2.5. Technical Blueprint and SRIDA

As the two main project outputs, the TB and SRIDA will be the pinnacles around which the website will center after the project end date, we foresee some additional work to optimise the look of these pages in order to make them future-proof and accessible as stand-alone resources[3]. The KER pages have already been updated with information from the final deliverables, and this will be supplemented by a series of blogposts (mentioned above).

2.2.6. Deliverables and Publications

The outputs section lists and links to all publicly available deliverables, as well as to publicly available presentations, articles, and visuals created by project partners, standardly archived on the **Zenodo SPECTRUM community**.

2.2.7. Statistics

The project website received 6,810 visits (on June 19 2026). These visitors generated 10,906 unique pageviews. Aside from the home page, the most popular pages were the SPECTRUMCoP page with 1,036 views, and the about and news pages, each around 700 views.

Key project milestones show peaks in visitors: The SPECTRUM Final Consultation page received 506 views, the TB page 135 and the SRIDA page 118.

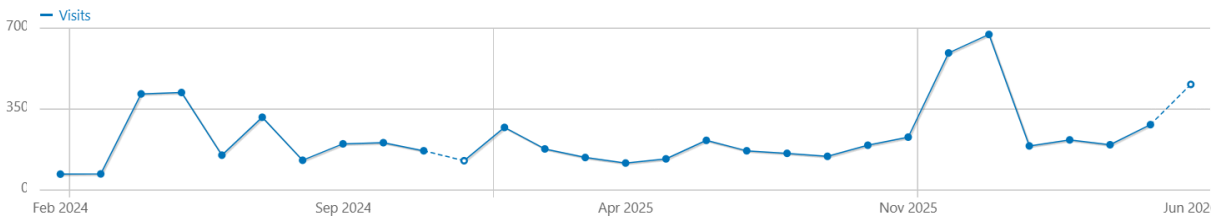


Figure 3: Matomo Analytics Site Visits February 2024-June 2026

Overall, the website statistics, while sufficient, show that the nature of our project (a Horizon CSA project, with emphasis on relatively few key document-based outputs), revealed a tendency of our core audience to

[2] "D4.1 Community of Practice and sustainability plan - Final report" . https://zenodo.org/records/21066645
[3] Work in Progress at the closing of the project

respond to KER-related campaigns rather than to treat the website as a prime information source. This implies that our stakeholders did not come back weekly to look for news - but rather that they responded to prompts from other channels (LinkedIn, newsletters, mailings). The contrast of website visits and downloads on Zenodo (where the number of views/downloads often surpasses the amount of views on the associated webpage), supports this theory.

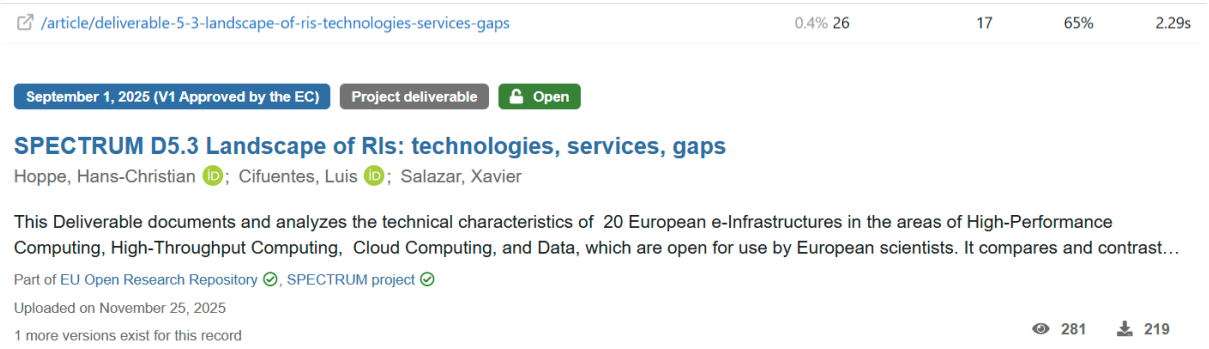


Figure 4: Comparison between website page views and Zenodo hits for D5.3 (data retrieved June 30th 2026)

2.3. Audiovisual Materials

2.3.1. Printables

2.3.1.1. QR Cards and Stickers and promotional materials

From the very start, a set of SPECTRUM QR cards was created, colourful square cards with the logo on one side and the QR code linking to the website. Together with a batch of stickers showing the logo, these materials were taken to all events and exhibition booths where the project was present. They were also distributed amongst partners for their own dissemination at events. Aside from a set of notepads produced early in the project, for a SPECTRUM-themed booth at HIPEAC 2026, and the final event, a set of notebooks and assorted pens was ordered.

2.3.1.2. Flyers

The project produced two main flyers: one introducing the project, including a CTA to join SPECTRUMCoP, and one at the very end of the project promoting the SRIDA and TB (including links to the online versions).

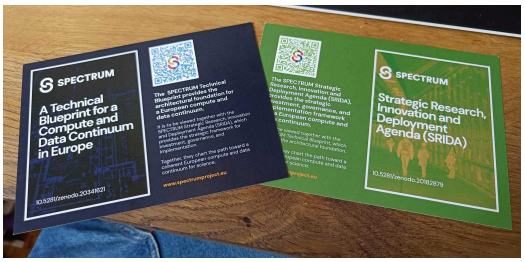


Figure 5: Flyers linking to the TB and SRIDA

2.3.1.3. Final Prints TB and SRIDA

A limited batch of printed versions of the TB and SRIDA were created for distribution at the final event and afterwards (upon request). Due to technical difficulties at the printer however, they were not delivered on time for the final event. The project will mail copies to those that have requested it (currently 32 copies of each are ordered by 11 different institutions).

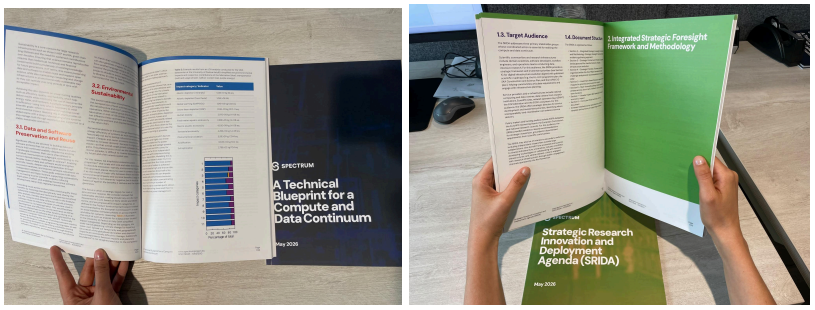


Figure 6: Print versions of SRIDA and TB

2.4. Social Media

2.4.1. LinkedIn

As the main dissemination channel for the project, our LinkedIn account performed well - closing at 369 followers on June 30 2026. This relative high follower rate is thanks to a coordinated effort involving the communications departments of most partners. They were encouraged to post about SPECTRUM as there were partner profile articles on the website.

Regardless of absolute numbers, the overall impressions and engagement rates showed a huge spike in the last 6 months of the project, as was to be expected with the consultation on and release of the TB and SRIDA, and the final event.

As for the website, the metrics show the rapport between major SPECTRUM events (consultation and webinar, final event promotion, release of final results) and traffic.

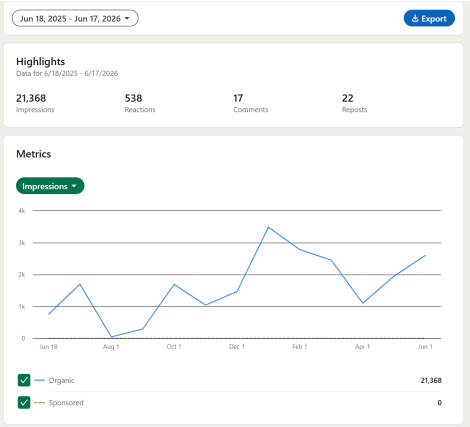


Figure 7: Linkedin Impressions M18-30.

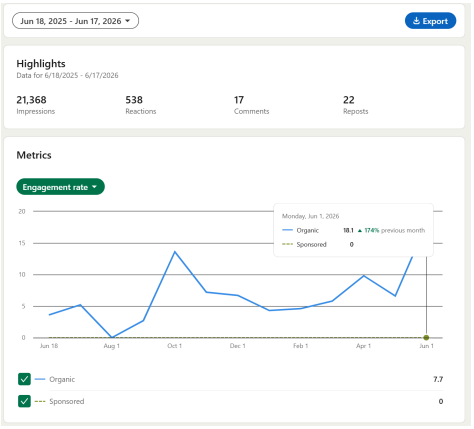


Figure 8: Linkedin Engagement M18-30.

2.4.2. Bluesky

Bluesky was set up at the start of the project as it seemed to show promise to become a replacement for Twitter, but it has not taken off.

2.4.3. YouTube

The **SPECTRUM YouTube channel** contains two key clips: the recording of the Consultation webinar (95 views) and the Final Results clip (72 views).

There is also a recording of the live stream of the Final Event, currently at 130 views.

2.5. Other Channels

2.5.1. Stakeholders webpages

- EGI: **https://www.egi.eu/project/spectrum/**
- CERN: **https://openlab.cern/spectrum/**
- FZJ: **https://www.fz-juelich.de/en/jsc/about-us/structure/simulation-and-data-labs/sdl-fluid-solid-engineering/finished-projects/spectrum?expand=translations,fzjsettings,nearest-institut**
- INFN: **https://www.infn.it/en/spectrum-the-sustainable-future-of-research-computing/**
- NEOVIA Innovation: **https://neovia-innovation.eu/en/spectrum-2**
- CINECA: **https://www.hpc.cineca.it/projects/spectrum/**

2.5.2. Newsletter

The SPECTRUM mailing list had 44 subscribers. With one final update planned on June 30th, 6 mailings were sent out over the last year of the project, each with a consistent opening rate of ~65% or more. As SPECTRUM relied heavily on the existing partner networks, the reach of partner mailing lists and newsletters can be considered much more important for the project reach.[4]

[4] See for example
https://researchitaly.mur.gov.it/en/scientific-computing-spectrum-european-project-recently-launched/ ,
https://preview.mailerlite.io/preview/1155990/emails/188609243428947582 ,
https://home.infn.it/it/news-infn/6399-spectrum-il-futuro-sostenibile-del-calcolo-per-la-ricerca

An example of this is the final newsletter being distributed amongst interested EGI newsletter audience (the 'project updates' mailing list):

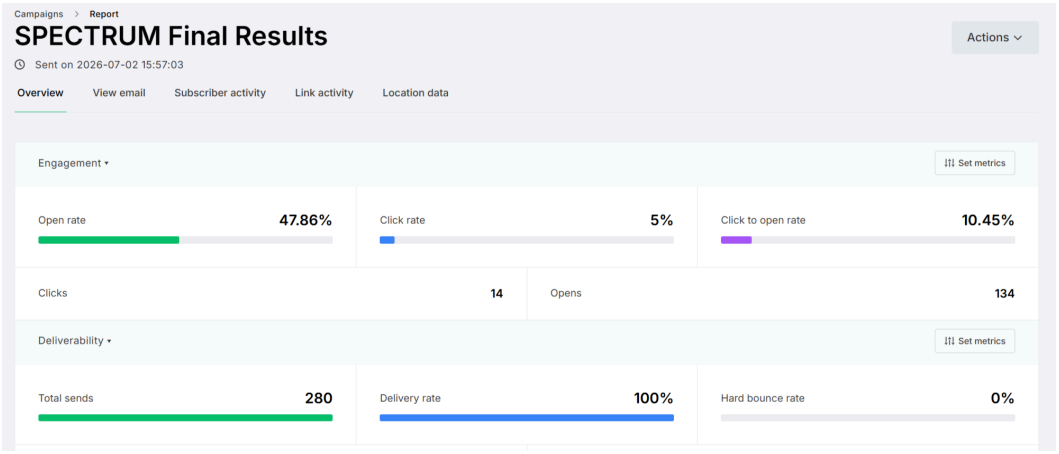


Figure 9: SPECTRUM Final Results distributed in EGI Newsletter audience

2.5.3. Video

The project has created a promotional video for the final event, and a full clip showing the SPECTRUM final results.



Figure 10: Still from promotional video clip

CERN Openlab videos: https://videos.cern.ch/record/2300957 and https://videos.cern.ch/record/3020500

2.6. Events

2.6.1. Booths

From the start, SPECTRUM has been present at every event booth hosted by project coordinator EGI, for example at the EGI202x conferences. During the second half of the project, SPECTRUM has had a (shared) booth presence at more domain-specific events, for example EGU and Living Planet Symposium 2025

(environment), Teratec 2024 and HiPEAC 2025 (HPC and business) and CHEP (physics). At the end of the project, 15 booth presences have been recorded.



Figure 11: Video Screen shown SURF booth at ISC 2026

2.6.2. Internal Workshops and Meetings

WP1/WP2 has facilitated the following internal project meetings:

- November 16 2023 Consortium Agreement meeting (online)
- December 14 2023 Pre-Kick off meeting (online)
- January 30 - February 1 2024: Kick off meeting (Amsterdam)
- June 11 2024: All Hands (online)
- September 30- October 1 2024: All hands meeting (Lecce)
- January 15- January 17 2025: All hands meeting (Geneva)
- October 8-10 2025: All hands meeting (Nice)
- February 17-18 2026: All hands meeting (Barcelona)
- June 2 2026: Final Event Rehearsal (Brussels)

2.6.3. Public Project Events, Webinar, and Stakeholder Meetings

December 12th 2025: Webinar: A shared vision for future data-intensive science in Europe

SPECTRUM hosted one public webinar: A shared vision for future data-intensive science in Europe, presenting the draft SRIDA and TB to 60 interested participants.

The registration data show a strong and highly relevant engagement from the European and international scientific community. Geographic analysis reveals widespread European participation, with the highest concentration of registrants coming from France and the Netherlands, supplemented by strong representation from Switzerland, Italy, and Germany. Notably, the event also attracted global interest, with registrants from Australia, India, and Bangladesh.

Attendees showed a mix of stakeholders, including executive and strategic leadership profiles, technical experts (such as HPC Advisors, System Administrators, and Applied Scientists), academics, and researchers. In terms of marketing outreach, personal invitations served as the most effective channel for driving registration, closely supported by promotional dissemination through project newsletter and LinkedIn.

February 18 - 19 2026: SPECTRUM Experts Meeting (Barcelona)

The Experts Meeting in Barcelona represented the final step of the WP4 consultation process. Held on 18–19 February 2026, it followed the individual interviews, the public webinar and the online consultation survey,

and was designed to discuss the preliminary versions of the TB and the SRIDA with a group of external experts, including members of the SPECTRUM Community of Practice (SPECTRUMCoP), who were either specifically invited or joined the process following an open expression of interest. The meeting took place after a closed SPECTRUM All-Hands Meeting (17-18 February) and brought together more than ten experts external to the SPECTRUM projects for an in-depth discussion of the project's final results before their publication.

The Experts Meeting provided a final opportunity to test the TB and the SRIDA against external expertise before their publication. For the Technical Blueprint, the discussion helped assess whether the proposed architectural approach was sufficiently realistic, actionable and aligned with operational constraints. For the SRIDA, the meeting supported the refinement of strategic priorities, implementation pathways and funding considerations. In both cases, the objective was to ensure that the final documents were not only internally coherent, but also credible and useful for the communities, infrastructure providers and policy stakeholders they are intended to address. The outcomes of the Barcelona meeting were documented in a dedicated public report published on Zenodo[5].

June 3 2026: Final Event (Brussels)

Towards the end of the project, 54 registered attendees gathered in the historic 'The Arc' room in SQUARE Brussels to discover the SPECTRUM final events, engage with two thematic panels, and learn from the insights of our two keynote speakers: Pantelis Tziveloglou (EC, EOSC) and Estela Suarez (FZJ, EuroHPC). We closed with a forward-looking session about community involvement, hosted by the SPECTRUMCoP team.

The full programme:

- 9:30 - Welcome coffee
- 10:00 - Welcome and opening
- 10:30 - Keynote: Pantelis Tziveloglou (EC)
- 11:00 Keynote – Prof. Dr. Estela Suarez (FZJ)
- 11:50 - SPECTRUM Technical Blueprint: overview and panel
- 13:30 - Lunch
- 14:10 - SPECTRUM Strategic Research, Innovation, and Deployment Agenda (SRIDA): overview and panel
- 16:00 - Panel Reports
- 16:20 - Beyond SPECTRUM: Strengthening the interface between scientific communities and digital infrastructures
- 16:45 - Closing Remarks
- 17:00 - Networking Reception

A post-event survey (with 7 respondents) gave the event an overall score of 8.8/10. There were also some recommendations for the future of SPECTRUM.[6]

2.7. Stakeholders [7]

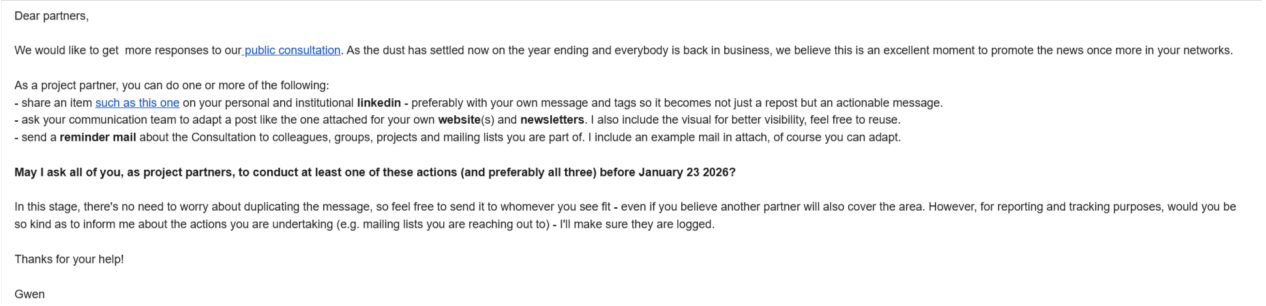
Details about how stakeholders were engaged through SPECTRUMCoP can be found in D4.1[8] and through the consultation process in WP3/4. Below, we will describe how each target group was approached by the DC measures[9].

[5] SPECTRUM Experts Meeting: Summary of Discussions. https://zenodo.org/records/19112880
[6] See Annex 1
[7] See D1.2 Dissemination, Communications and Exploitation Plan. https://zenodo.org/records/12704290
[8] D4.1 Community of Practice and sustainability plan - Final report" . https://zenodo.org/records/21066645
[9] See Annex 2

2.7.1. Target Group 1 (TG1): Scientific Communities and Research Infrastructures and Target Group 2 (TG2): Computing & Data Service Providers & e-Infrastructures

As planned in D1.2, TG1 includes SPECTRUM project partners and their ecosystems - in High Energy Physics, Radio Astronomy and adjacent domains (such as HPC). Their overall engagement level is very high and critical for the success of the project. This group needed to be **aware** of the project, and were expected to **take up** and **implement** project outputs. Representatives actively **engaged** with the project via membership of SPECTRUMCoP and its Working Groups.
TG1 and TG2 stakeholders as identified in D1.2 include JENA, WLCG, Radionet, SKAO, SKA Regional Centres, LOFAR ERIC, ETP4HPC, HIPEAC, CERN openlab, PRACE[10], and are firmly routed in the ecosystem surrounding the SPECTRUM project partners. SPECTRUM has actively stimulated the partners to engage with them by providing information packages for every major project milestone or event.

The SPECTRUM newsletter also captured key persons in these ecosystems.



Dear partners,

We would like to get more responses to our public consultation. As the dust has settled now on the year ending and everybody is back in business, we believe this is an excellent moment to promote the news once more in your networks.

As a project partner, you can do one or more of the following:
- share an item such as this one on your personal and institutional **linkedin** - preferably with your own message and tags so it becomes not just a repost but an actionable message.
- ask your communication team to adapt a post like the one attached for your own **website**(s) and **newsletters**. I also include the visual for better visibility, feel free to reuse.
- send a **reminder mail** about the Consultation to colleagues, groups, projects and mailing lists you are part of. I include an example mail in attach, of course you can adapt.

May I ask all of you, as project partners, to conduct at least one of these actions (and preferably all three) before January 23 2026?

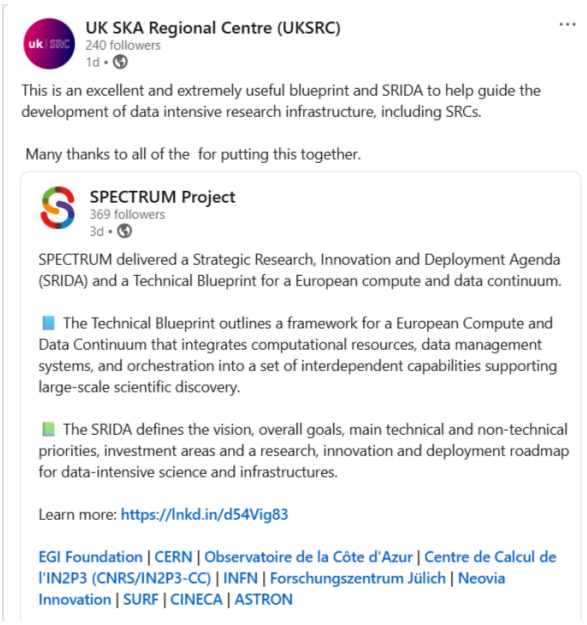
In this stage, there's no need to worry about duplicating the message, so feel free to send it to whomever you see fit - even if you believe another partner will also cover the area. However, for reporting and tracking purposes, would you be so kind as to inform me about the actions you are undertaking (e.g. mailing lists you are reaching out to) - I'll make sure they are logged.

Thanks for your help!

Gwen

Figure 12: Example of communication package for partners to distribute in their ecosystem

In addition, active targeting also happened in LinkedIn posts, ensuring that the communication departments of all partners (and their wider networks) were reached (by increasing visibility through a post reaction or, in the best case, a share outside our core network.



UK SKA Regional Centre (UKSRC)
240 followers
1d •

This is an excellent and extremely useful blueprint and SRIDA to help guide the development of data intensive research infrastructure, including SRCs.

Many thanks to all of the for putting this together.

SPECTRUM Project
369 followers
3d •

SPECTRUM delivered a Strategic Research, Innovation and Deployment Agenda (SRIDA) and a Technical Blueprint for a European compute and data continuum.

The Technical Blueprint outlines a framework for a European Compute and Data Continuum that integrates computational resources, data management systems, and orchestration into a set of interdependent capabilities supporting large-scale scientific discovery.

The SRIDA defines the vision, overall goals, main technical and non-technical priorities, investment areas and a research, innovation and deployment roadmap for data-intensive science and infrastructures.

Learn more: https://lnkd.in/d54Vig83

EGI Foundation | CERN | Observatoire de la Côte d'Azur | Centre de Calcul de l'IN2P3 (CNRS/IN2P3-CC) | INFN | Forschungszentrum Jülich | Neovia Innovation | SURF | CINECA | ASTRON

Figure 13: LinkedIn Repost by UKSRC about Final Results

[10] See Annex 2 and D1.2 Dissemination, Communications and Exploitation Plan

Through the above networks, TG1 and TG2 were actively targeted to attend the key SPECTRUM 'events': the webinar, the consultation, and the final event.
Again, the importance of the partner networks cannot be overestimated. The registration details of the Webinar show how 'personal invitations' play a key role in expanding SPECTRUM's visibility among these core TGs.[11]

Finally, SPECTRUM also increased its visibility through attendance at events specifically targeting these TGs, for example CHEP, HiPEAC, Teratec Forum, ISC,[12] and specialised publications such as HiPEAC Magazine.

2.7.2. Target Group 3 (TG3): Policy Makers and Funders

This group includes, but is not limited to, stakeholders such as the European Commission, EuroHPC, EOSC, National Authorities and ESFRIs. They needed to be **aware** of the project, and are one of the core target groups of the SPECTRUM SRIDA. They also required close **engagement** with the project to provide input, align policies, and **take up** its outputs.
They were engaged mainly through the final event on June 3rd, with several EC representatives in attendance, including Pantelis Tziveloglou (EC, EOSC). EuroHPC was presented through keynote speaker Estela Suarez.

2.7.3. Secondary Target Groups: Researchers from the 'long tail of science, Research Institutions/Universities/Industry/SMEs, and the General Public

Individual researchers: as part of scientific communities and research infrastructures they engage with SPECTRUM, in particular for the use cases and SPECTRUMCoP. They are expected to **make use** of the final outputs.
Research Institutions, Universities, Industry, and SMEs are the organisations employing the researchers within scientific communities, backing the computing & data service providers. They are considered as interested parties to **learn about** the results of the project as future technology/service adopters, vendors, or customers.

"Individual researchers" and "Research Institutions, Universities, Industry, and SMEs" have been reached through participation in general and specific events (EGI202x, HIPEAC, …), and by casting a wide net on LinkedIn, providing attractive formatting of the outputs (KERs, video's, …).

While the general public (in particular citizen scientists) **has a long-term interest** in the very high-level directions and evolution of data-intensive science and the future societal and economical impacts, the impact of SPECTRUM was limited or non-existent, as no specific DCE measures were foreseen.

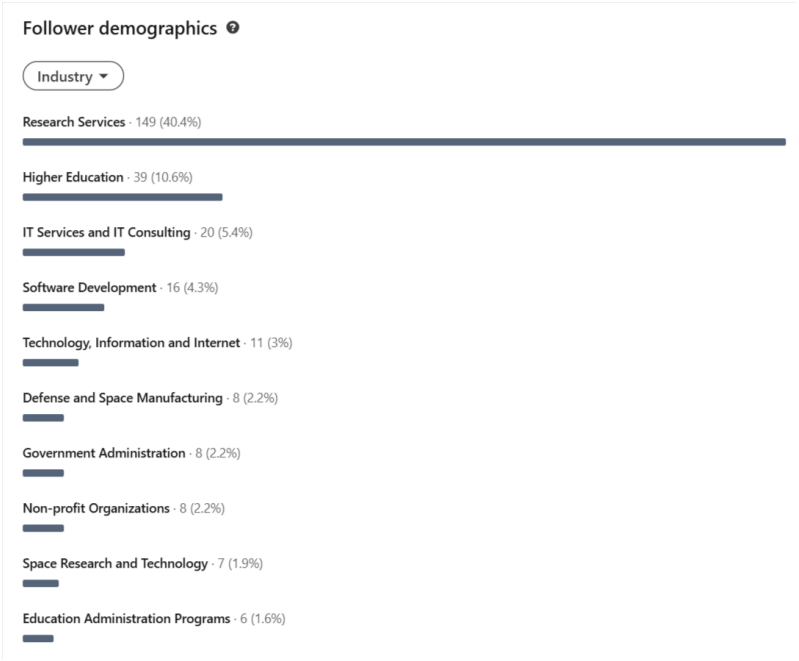
[11] See Annex 3
[12] https://www.spectrumproject.eu/news#agenda

2.8. Metrics

Audience analysis of the newsletter and the webinar attendees, as well as LinkedIn, show that we have managed to reach these stakeholders:

Opties	Antwoorden
Member of Scientific Community/Research Infrastructure	10/23 (43%)
Service Provider/e-infrastructure	7/23 (30%)
Individual Researcher	2/23 (9%)
Business/SME	5/23 (22%)
Research Institution	5/23 (22%)
None of these!	1/23 (4%)

Figure 14: Consultation webinar attendees categorisation



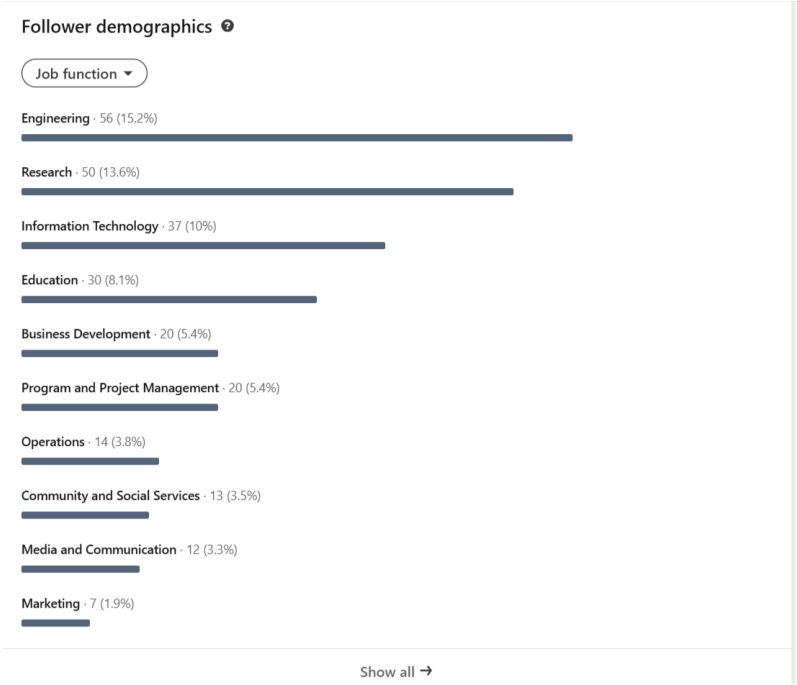


Figure 15: Linkedin Follower Demographics

2.9. Publications

2.9.1. Scientific Publications

The project was not foreseen and did not aim for scientific publications. However, a conference proceeding where the CHEP 2026 submission will be included will be published in early 2027. https://indico.cern.ch/event/1471803/page/40062-proceedings

2.9.2. Press and non-scientific publications

HIPEACinfo 74

Hipeacinfo 78

Horizon Europe article (in preparation)

Project Partner website/Newsletter articles (selection):

- SPECTRUM project members gather at CERN to shape Europe's exascale future (CERN)
- SPECTRUM EU Project (FZJ)
- SPECTRUM: IL FUTURO SOSTENIBILE DEL CALCOLO PER LA RICERCA (INFN)
- Elevating data-intensive science in Europe (EGI)

2.9.3. Zenodo community

The Zenodo open repository, hosted by CERN, proved to be a valuable dissemination outlet. Moreover, through Zenodo, the SPECTRUM community was also integrated in the EU Open Research Repository.

Through Zenodo, downloads and views[13] of the key deliverables for the project can easily be tracked:

- SRIDA and TB drafts for consultation (combined document) received 776 views and 1,111 downloads. https://zenodo.org/records/20182879
- So far, the SRIDA Final version has received 95 views and 150 downloads https://zenodo.org/records/20182879
- The TB has received 160 views and 165 downloads https://zenodo.org/records/20341621

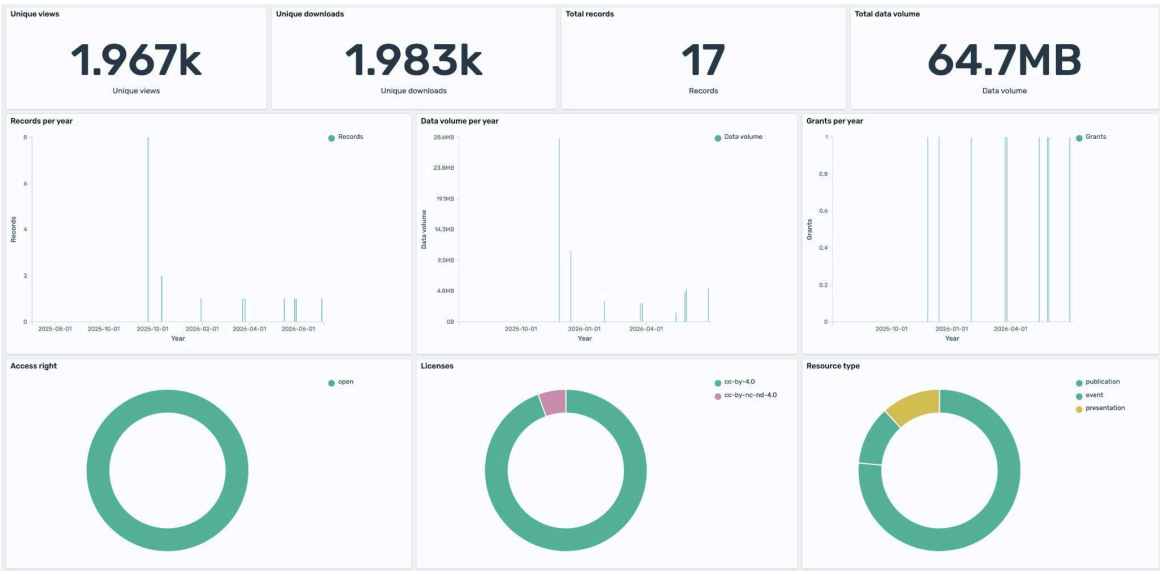


Figure 16: Zenodo statistics for M18-M30 (note the error - 1967k should be 1967)

3. Deliverables and Milestones Achieved

Task 1.3/2.3 has produced three deliverables:

- D1.2 Dissemination, Communications and Exploitation plan (T1.3)
- D1.5 Dissemination, Communications and Exploitation – Interim Report (T1.3)
- D2.3 Dissemination, Communications and Exploitation - Final Report (T2.3) (this publication)

Task 1.3 had one milestone assigned:

- MS2 Full project website launched (T1.3)

[13] Zenodo indicates that up to 50% of traffic can be allocated to bot crawling

4. Summary of Dissemination and Communication Metrics

4.1. Overview Table

Table 1: Metrics

Description	Target	M30 Status	Comments
Website	500 visits per month	243 average site visits 389 average pay views per month	Visits and views peaked during key project 'events' but were much lower in the first half of the project. It is in the nature of a CSA project how the specific milestones typically generate burst traffic, but rely less on steady blog traffic. See also the success of Zenodo, where PDF downloads of our publications were significantly higher than expected. Our core TGs in all likelihood prefer to download pdfs with actionable information rather than browse through web pages.
LinkedIn Followers	300 at the end	369	
Linkedin Engagement	8%	7.7%	
Newsletter Subscriptions	120	44	Part of the traditional newsletter reach was covered by mailings by partners to their own mailing lists. For instance, the EGI newsletter, where SPECTRUM was featured regularly, reaches more than 3K people monthly.
Project Presence at Events	30	31	https://www.spectrumproject.eu/news#agenda
Workshops and Webinars organised	6	6	EGI2024 Workshop EGI2025 Session ISC 2025 BoF session 20251210 Consultation Webinar 20260217 Experts Meeting 20260603 Final Event
Publications	50 views/15 downloads	3023 views/3338 downloads 1967/1983 unique views and downloads *(for M18-M30)*	Huge underestimation of Zenodo reach, even if allowing for 50% bot crawling.

4.2. Budget

This is an overview of the budget categories SPECTRUM funding was spent on by T1.3/2.3:

- Event participation & booth costs
- Materials & Printables: roll ups, flyers, stickers, promotional materials
- Website and improvements
- Newsletter and social media tools
- Final Brochures
- Shipments & Logistics

5. Overview of Exploitation activities

The initial Exploitation plan was described in the DoA and expanded in D1.2 ("Dissemination, Communications and Exploitation Plan") and D1.5 ("Dissemination, Communications and Exploitation - Interim Report") indicating the commitment of project partners towards the exploitation and future take up of SPECTRUM results. The Exploitation Plan is tailored to the consolidation of the community created around SPECTRUM and the uptake of the different documents, roadmaps and policy documents by the relevant stakeholders and decision makers concretely:

- Scientific communities and RI (in particular, HEP - represented by CERN, INFN - and RA - represented by CNRS, OCA and ASTRON) expect new computing services to be deployed in order to tackle the needs from the experiments of the next decade. Key representatives have been participating in the Final Event expressing the importance and relevance of the recommendations presented at SPECTRUM Technical Blueprint and SRIDA (D6.1, D7.1)
- e-Infrastructures (represented by FZJ, SURF and CINECA) are already providing support to those communities and expect to integrate the feedback and requirements from the project to enhance and adapt the next generation of advanced computing systems to be procured in the future. D5.1, D5.2 and D5.3 gathered the main state of play related to Use Cases, infrastructure landscape and access policies. Recommendations emerging from those have been adopted by D6.1 and D7.1
- EGI in particular expects to upgrade the computing federation in order to adapt the service delivery to the needs of the scientific communities, and recommendations are reflected in the Strategic Plan 2026-2030.
- In general, the establishment of the SPECTRUMCoP supported by NEOVIA creates the framework to reduce the fragmentation and work together towards common needs. Follow up is documented in D4.1)
- For policy makers, one of main targets for SPECTRUM exploitation is to support digital-infrastructures policy making. Project outputs and recommendations aim to help to define future work programmes and areas of investment as they are described mainly in D7.1 (SRIDA) and D2.1 (Policy Brief for Period 2).

The key steps and activities done during the project in order to comply with the exploitation objectives:

- Identification of Key Stakeholders (including, interest groups, projects) as indicated in Annex 3.
- Incorporation of those to the relevant Working Groups of SPECTRUM Communities of Practice as updated in the public SPECTRUMCoP page https://www.spectrumproject.eu/spectrumcop Identification of key strategic documents, roadmaps, compendium of best practices, use cases to collect the strategic relevance of those for SPECTRUM and learn on the best practices for structuring and shaping the documents.
- Feedback gathering along the different consultation rounds, public events EGI 2025, ISC 2025, questionnaires and active involvement in the periodic SPECTRUMCoP Meetings, F2F Expert Feedback and Final Event.

- Incorporation into the relevant project deliverables that will be promoted across the different decision making bodies and in the different events.
- Early drafting of Technical Blueprint and SRIDA has enabled an in-depth Feedback loop enabling specific expert discussions for each of the priorities identified, and an overall improvement of the documents.

5.1. IP Management update

Monitor for each of project results Ownership status, IP Rights and Access (e.g., License or Copyright attribution)

As explained in D1.2 and D1.5 SPECTRUM knowledge management and protection strategy aimed to maximise the success for the main goal of the project, that is "to develop common strategies for future development of RI technologies and services within broad RI communities". Open science practices have been followed to keep project outputs "as open as possible, as closed as necessary". As such, all project deliverables and written outputs are licensed under a permissive open licence unless restriction was required (D2.1 - policy brief)

- Deliverables ownership are considered the result of collective work of the contributing authors, and jointly owned by the consortium partners,
- The main protection mechanism is the copyright (in any of the appropriate open permissive licences such as CC BY for texts or CC0 for the metadata).
- The EGI Foundation is the owner of the project visual identity generated including logos. This material is licensed under a Creative Commons BY-NC-ND 4.0 licence.

For the collaboration within the WGs, a specific charter was defined and has been updated towards the end of the project. Non-Disclosure Agreements (NDAs) were managed for the External Advisory Board (EAB). Most final deliverables reports, project outputs, the necessary related information and data have been openly distributed and broadly promoted. The only one D2.1 Policy Brief has been set as sensitive as this is the usual case for policy briefs, and in order to permit more in-depth recommendations

5.2. Exploitation of Project results and KERs

A brief summary of how the focus for the exploitation of the project shifted during the project:

- M1 -M7: At the beginning of the project main dissemination & exploitation focus was put at the creation of the SPECTRUM CoP (KER1) to ensure it is appropriately filled with the right expert members.
- M7-M15: After the SPECTRUMCoP set up, the focus shifted to ensure the necessary feedback gathering to successfully complete the Use Cases, Landscape Analysis and Access Policies (KER2, KER3, KER4) , e.g. by supporting the launch of the survey.
- M15-M23: At the beginning of the second part of the project the main focus got divided into, 1) the promotion of the first project outcomes (KER2, KER3, KER4 -deliverables generated at M15) and 2) the feedback gathering for the generation of the Blueprint Architecture and SRIDA (KER5 and KER6).
- M23-M30: The final part of the project, after the first draft of the Blue Print Architecture and SRIDA (KER5 and KER6) the project concentrated on the expert feedback loop gathering for the improvement of the documents and after their finalization to maximise its uptake across the relevant stakeholders.

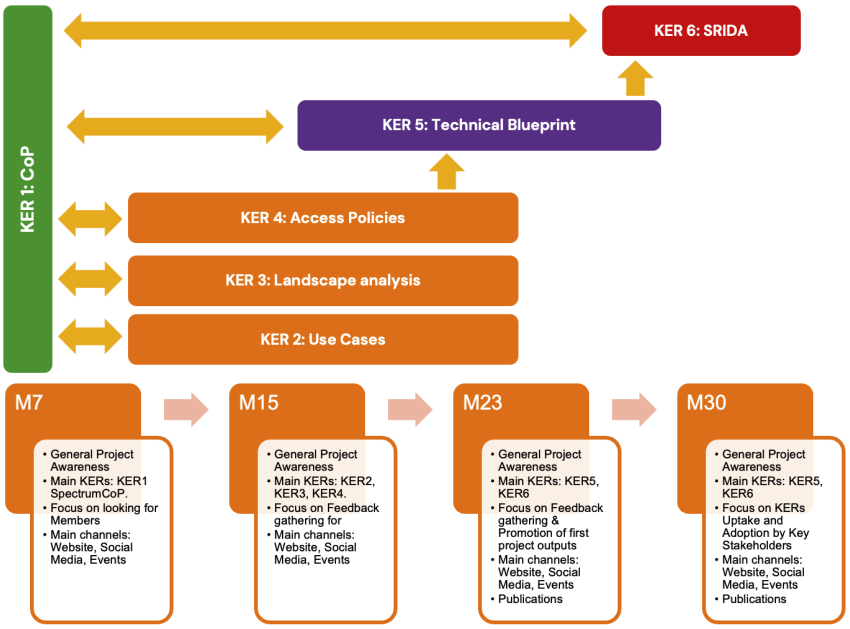


Figure 17: KERs Contribution and Progress

The appropriate exploitation paths for each of the expected results were identified in the Proposal in the specific KER tables that provide target groups, initial exploitation path and Ownership, IPR and access rights.

Table 2: Exploitation plan for SPECTRUM KERs including target groups, exploitation path and ownership/access rights

KER1: Community of Practice of research infrastructures in HEP, RA and other relevant scientific domains
Target groups: (TG1) Scientific Communities within RIs with data-intensive computing needs, with a focus on RA and HEP. **Exploitation plan:** Key experts in the community become primary members of the CoP and use it as a platform for discussion; before the end of the project, a community charter for the long-term operation of the CoP will be agreed. **Dissemination plan:** Promote SPECTRUMCoP at events, Formulate Key Messages, Activate Partner Network, External Projects and Interest Groups, Facilitate Consultations and Surveys, best practice repository (Knowledge Hub on Confluence). **Ownership and access rights**: Expert WG members from project partners will become starting members of the CoP; upon the definition of community charter, access to the community will be open to any external key experts. Outputs generated by the community generated during the project will be openly distributed under permissive licence. Bylaws will be defined in case it is needed. Before the end of the project, there will be the identification of an organisation to provide continued support to the online platform for the CoP. **Dissemination Plan Progress & Activities:** Dissemination activities linked to the SPECTRUMCoP have increased during the second period of the project along with the growing importance of their feedback and contributions to the set up and improvement of the Technical Blueprint and SRIDA. On top of the periodic meetings SPECTRUM CoP members have been (1) interviewed to gather specific feedback, (2) invited to the webinars launching the Technical Blueprint and (3) invited to participate to the survey organized in the second half of the project, (4) invited to participate to the specific priorities discussions (5) invited to participate to the experts meeting to discuss on the specific topic of the SPECTRUMCoP sustainability (6) invited to participate to the final event The specific section in the SPECTRUM website keeps operative, as landing page explaining the objectives (https://www.spectrumproject.eu/spectrumcop) and the different discussions have been shared broadly in social media via SPECTRUM Linkedin. **Exploitation Plan Progress & Activities:** The continuity of the SPECTRUMCoP is presented broadly in D4.1. During the second period the changes to SPECTRUMCoP charter have been discussed in order to

continue the collaborations. After discussion with SPECTRUMCoP members and partners a lightweight approach to keep the SPECTRUMCoP operational after the end of the project that enables the further collaboration between the different interest groups and communities without overlapping their own work has been agreed. Knowhow generated by the SECTRUMCoP has been successfully adopted by the SRIDA and the Technical Blueprint, and has influenced the relevant documents for specific communities such as JENA, the European Strategy for Particle Physics, SRCNet, RADIONET, etc. Further examples include the participation at the experts meeting of representatives of EuroHPC User Forum Coordination Group (UFCG), HiPEAC, ETP4HPC, PRACE, the InPEx initiative, and EGI. The SPECTRUM project has direct or indirect links with all of these initiatives. This facilitates the continued and strengthened exchanges between the RA, HEP, and other complementary scientific communities beyond the end of the project.

KER2: Compendium of use cases, related challenges, gaps and requirements covering technical and policy aspects
KER3: Compendium of existing approaches, existing services, technical solutions and policies to novel data and compute federation architecture
KER4: Recommendations for a jointly supported corpus of interoperable access policies

Target groups: (TG1) Scientific Communities within RIs with data-intensive computing needs, with a focus on RA and HEP; (TG2) Computing & Data Service Providers & e-Infrastructures.
Exploitation plan: While these results are functional to develop both the Technical Blueprint (KER5) and the SRIDA (KER6), they will be of great interest for other research communities and computing providers; they increase the level of understanding of data-intensive science and can be reused, and therefore, the use of existing solutions and services will be increased.
Dissemination Plan: Promote project and outputs at events, Formulate Key Messages, Activate Partner Network, External Projects and Interest Groups, Facilitate Consultations and Surveys, make Project Outputs publicly available on Zenodo and promote them via Social Media and Website.
Ownership and access rights: Collective work of the contributing experts, jointly owned by consortium partners; and shared under a permissive licence CC BY 4.0.
Dissemination Plan Progress & Activities: Deliverables have been made available via Zenodo, and widely disseminated via SPECTRUM website and LinkedIn and through SPECTRUM CoP channels. Main findings related to KER2, KER3, KER4 have been disseminated in some of the key events such as EGI 2024, CHEP 2024, EGI 2025, ISC 2025. Participation at PUNCH4NFDI was an opportunity to raise interest among potential Use Cases providers.
Exploitation Plan Progress & Activities: Main exploitation of WP5-related KERs are linked to the use, adoption and uptake within the project as know-how foundation for the generation of the Technical Blueprint and SRIDA to understand the key requirements, gaps and needs that had to be tackled in the documents.

- Contribution to KER1: All generated use cases become part of the Knowledge Hub to be shared with SPECTRUM CoP ready to be used and re-used by their members.
- Contribution to KER5 (Blueprint Architecture) and KER6 (SRIDA): Digested analysis, recommendations and gaps will become part of the key documents of SPECTRUM.

KER2 is also contributing to the knowledge transfer to JENA initiative, to The European Strategy for Particle Physics (CERN) and to any equivalent initiatives happening within Radio Astronomy, such as PUNCH4NFDI, RadioNet, etc and held in parallel with SPECTRUM project.
Feedback was also transferred on the infrastructure side to EuroHPC - as part of the EuroHPC user forum represented by SPECTRUM Partners, as well as other key communities and advocacy groups in the HPC and Advanced Computing Continuum - such as ETP4HPC, HiPEAC.

KER5: Technical Blueprint of a European compute and data continuum

Target groups: (TG1) Scientific Communities within RIs with data-intensive computing needs, with a focus on RA and HEP; (TG2) Computing & Data Service Providers & e-Infrastructures.
Exploitation plan: While this result is functional to develop the SRIDA (KER6), it will be of great interest for other research communities and computing providers, to be able to plan their roadmap for development of new technologies and services to cover the future needs of the scientific communities.
Dissemination plan: Promote project and outputs at events, Formulate Key Messages, Activate Partner Network, External Projects and Interest Groups, Facilitate Consultations and Surveys, make Project Outputs publicly available on Zenodo and promote them via Social Media and Website, High Level Closing event.

Ownership and access rights: Collective work of the contributing experts, jointly owned by consortium partners; and shared under a permissive licence CC BY 4.0.

KER6: SRIDA (A strategy and plan for the implementation of Exascale research data federation and compute continuum for data-intensive science)

Target groups: (TG1) Scientific Communities and RIs with data-intensive computing needs, with a focus on RA and HEP; (TG2) Computing and Data Service Providers and e-Infrastructures; TG3: Policy Makers / Funding Bodies.
Exploitation plan: By the comprehensive analysis of all previously described KERs are feeding the SRIDA. Hence it is the most relevant result. It will need to be properly disseminated across all relevant stakeholders as described in the previous section, especially to the policy makers and funding bodies so that they can be duly addressed in the next work programmes. All partners from the consortium are fully committed to endorse the future take up of the technologies and services described in the roadmap and bring into their own implementation plans and access and use them for their future scientific needs. This will lead to the future integration of enhanced services to EOSC available for RIs.
Dissemination Plan: Promote project and outputs at events, Formulate Key Messages, Activate Partner Network, External Projects and Interest Groups, Facilitate Consultations and Surveys, make Project Outputs publicly available on Zenodo and promote them via Social Media and Website, High Level Closing event.
Ownership and access rights: Collective work of the contributing experts, jointly owned by consortium partners; and shared under a permissive licence CC BY 4.0.

Dissemination and Exploitation for KER5 and KER6:

Taking into account the different nature of the Target Groups of the KERs - more technical oriented for the Technical Blueprint and more political and decision making oriented for the SRIDA, the exploitation and dissemination activities were conceived as an integral plan to get both documents promoted, distributed and adopted.
Dissemination Plan Progress & Activities: Most of the dissemination activities of the second period and described in the prior section were focusing on promoting the Technical Blueprint and the SRIDA. This has included the generation of printed material (including short one-pager brochures, moo-cards with QR, and printed final documents being shipped at key events and people), increased presence in the SPECTRUMCoP Website (including specific section for final project outputs, news) promotion in LinkedIn social media. Presence at events has also increased. At the beginning of the second period key activities were organized at EGI 2025 and ISC 2025 aiming to collect relevant community feedback for the KERs. Later on the focus shifted to promoting first the early drafts of the documents and later on the final documents. Events included end-user community events in RA (SRCNet, RADIONET, Astrophysics, Einstein Telescope, etc), HEP (HEP/HPC Strategy, ATLAS Computing Week, ESCAPE collaboration cluster, etc) and infrastructures (HiPEAC 2026, ETP4HPC 2026, eIrg, 2025, EuroHPC Summit 2025, EuroHPC User Forum, etc). Noteworthy, a publication was included and presented as part of CHEP 2026. Specific project events were organized to present the progress of the documents - including a Webinar to present the draft versions of the Technical Blueprint and SRIDA and launch the consultation, specific telcos for every priority including relevant experts to discuss around the topics, the Experts F2F meeting to discuss the improvements to the documents and the final event in Brussels for the presentation of the resulting outputs.
Exploitation Plan Progress & Activities: Most of the dissemination activities in the last part of the project were focusing on increasing the adoption of the recommendations arising from the Technical Blueprint and SRIDA. Infrastructure partners are very interested to adopt the recommendations emerging from those documents to ensure they are able to keep on serving very important user communities and end-user communities need to have ready to use compute infrastructures in order to process the data generated in the next iteration of experiments, so the adoption of SPECTRUM is natural in both sides -provider and user side. The participation of key decision makers from all stakeholders at the final event shows their commitment and interest. On a short term, there are a number of ongoing Horizon Europe projects that are working on the concepts that are presented in the different priorities of the SRIDA, on a mid and longer-term, ideas for topics and the need for calls to support the deployment and operations of the resulting infrastructures have been provided part of the D2.1 Policy Brief document. Further detail is provided in the next section.

5.3. Exploitation and Uptake

The framework for exploitation aligns with the roadmap for implementation presented in the SRIDA document, in which the different priorities and different recommendations are presented on a short term (1-2 years), mid-term (3-5 years) and long term (over 5 years).

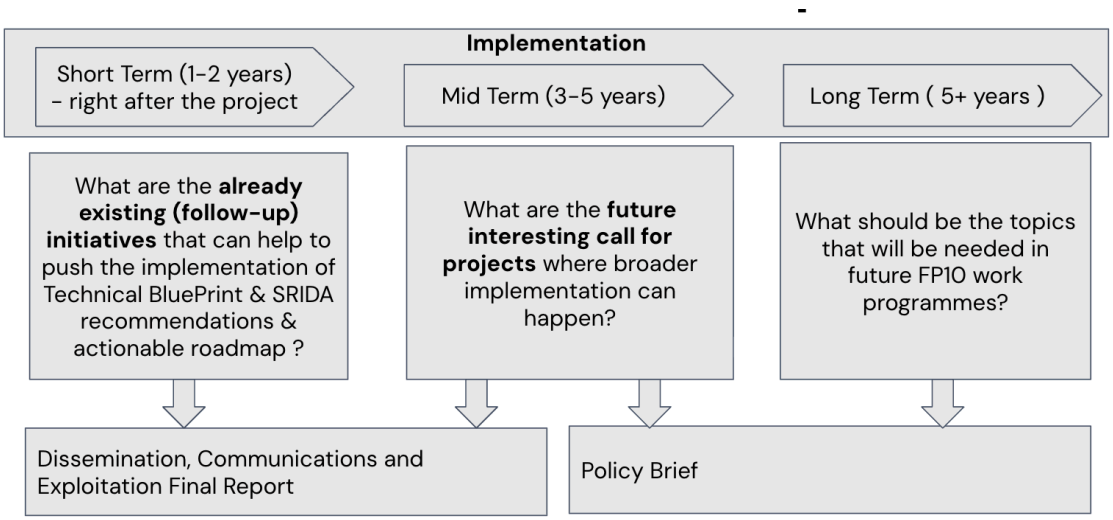


Figure 18: Framework for Exploitation and Uptake

Several initiatives have been providing the relevant knowledge basis to the different pillars such as: ACCESS2ACCESS, a project laying the foundations for a future European access framework enabling world-class research through open, integrated and sustainable use of Research Infrastructures (P02). Regarding Federated Identity and Trust (P03) AARC TREE Project has provided the guidelines for federated access management and interoperability for the international research and e-science community that need to be implemented and adopted. For the technical Pillar, (P04) on Heterogeneous Computing Integration has been based and validated by the Lexis Platform and in line with the EuroHPC Federation Platform and expects to be implemented under the future EGI HPC service. Recommendations emerging from P05 on Data Management and Transport are being considered under EOSC Data Commons and are the basis for improving Storage and Data related EGI services. P06 Orchestration and Workflows has been validated by EXTRACT project and are expected to be further addressed under follow up technical projects such as HORIZON-JU-EUROHPC-2026-COE-LH-01, where necessary needs for SW specific challenges can be addressed and which is also relevant for P08 on Software Portability. P07 states the importance of adapting to the emergence of the AI/ML megatrend. On a political level feedback is channelled under SCIANCE project backed by technical projects such as ODISSEE, RI-SCALE or proposals under HORIZON-INFRA-2026-TECH-01-01 and HORIZON-INFRA-2026-TECH-01-02. For open science and reproducibility (P09) is backed by OSCARS, a project aiming to foster the uptake of Open Science in Europe through collaboration among Research Infrastructures in the five EOSC Science Clusters and, the EVERSE project, a project aiming to create a framework for research software and code excellence, collaboratively designed and championed by the research communities backs Software Preservation and Sustainability (P10). Community Management and Collaboration is discussed in D4.1 and will be followed under the existing technical and infrastructure specific collaborations, Environmental sustainability has been developed from initiatives such as NumPex and GreenDigit and will be followed up under HORIZON-INFRA-2025-01-TECH-01 - ENSURE project. And for P13 Skills, Careers & Training, recommendations will be channeled via HORIZON-INFRA-2025-01-DEV-01 - RI-Train and HPCTRAIN.

Annexes

Annex 1: Final Event Feedback

Collected as post-event survey on 03-06-2026

Table 3: Post Final Event Feedback

Overall, how satisfied are you with the event? [14]	What is your main takeaway from this event?	Do you have any suggestions for the project to follow up upon after the project closing on June 30 2026?
10	A very comprehensive and complete overview of the present challenges with a clear defined roadmap for the future.	
7	Support for data intensive science is needed as articulated well by the community. The issues are clear, but the pathways to (try to) solve these are not very clear. We could consider to become more concrete/bold on this point.	I think concrete actions, outside of EC projects, are needed. The EGI foundation could help with this and this would be in line with the new EGI strategy to also bolster the innovation/collaboration within the EGI federation outside of EC. Ofc if EC incentives are available that also be welcome, but it would lack long term sustainability and hence would maybe avoid making real decisions.
10	Concrete use case, concrete tackle of real issues, importance of the continuum demonstrated. Workflow management will be key to leveraging benefits from futures RI construction.	Follow the same path, you are on the right track!
10	Excellent survey, relevant recommendations.	Influence EU policy decisions
10	The need for a continuous engagement between research infrastructures/communities, computing resources providers, funding agencies with the goal of building a federated continuum computing environment. The need to sustain human efforts to accomplish this goal in the next years.	Advocate with the EC for funding opportunities to follow-up the pillars and the priorities set up in the SRIDA
7	We will always need a bottom-up approach to solve specific issues effectively, as well as a top down framework to ensure that knowledge	What I missed in the discussions was who will be actively lobbying for this at EU level, and what my role in such a lobby could be.

[14] 2 respondents scored (8, 10) without leaving any comments

Overall, how satisfied are you with the event? [14]	What is your main takeaway from this event?	Do you have any suggestions for the project to follow up upon after the project closing on June 30 2026?
	and experience are easily accessible across domains. Finding the right balance between top down regulation and bottom up flexibility is a major challenge.	
8	computing in big science is hard. too hard to be handled in isolation. We need to gather around projects, and use common infrastructures	try to find a spectrum 2! all the work done should continue and not be dispersed

Annex 2: Stakeholders

Stakeholders as described in D1.2: Dissemination, Communications and Exploitation Plan

Target Groups

Target Group 1 (TG1): Scientific Communities and Research Infrastructures

In High Energy Physics, Radio Astronomy and adjacent domains (such as HPC). This group includes SPECTRUM project partners, their ecosystems. They need to be **aware** of the project, and are expected to **take up** and **implement** project outputs. Representatives actively **engage** with the project via membership of SPECTRUMCoP and its Working Groups.

Targeted as project partners, SPECTRUMCoP members
Directly targeted in all phases of the project through social media and events

Table 4: Examples of TG1 Stakeholders

Stakeholder	Short Description
JENA	JENA (Joint ECFA, NuPECC and APPEC) is a joint committee between HEP, Nuclear and Astroparticle physics.
WLCG	The Worldwide LHC Computing Grid (WLCG) project handles Computing for the LHC experiments primarily, but has as observers DuNE, Virgo, Belle-2 and SKA.
RadioNet	RadioNet – the European Radio Astronomy Consortium – consists of 22 key radio astronomy institutes and infrastructures from Europe and beyond.
SKAO	The SKA Observatory is an intergovernmental international radio telescope project expected to come into operations by the end of the decade
SKA Regional Centers	Distributed network to find, assess, manipulate and visualise SKA Data products to make them available to a global user community on shared computational resources.
LOFAR ERIC (ASTRON)	LOFAR is the largest and most sensitive radio telescope operating at low radio frequencies.
JIV-ERIC	JIVE's mission is to promote and implement the use of Very Long Baseline Interferometry (VLBI) and other radio astronomical techniques.
European ALMA Regional Center	The European ALMA Regional Centre (ARC) provides the interface between the ALMA project ((Atacama Large Millimeter/submillimeter Array)and the European science community.
HEP Software Foundation	The HEP Software Foundation facilitates cooperation and common efforts in High Energy Physics software and computing internationally.
IRAM	IRAM is an international research institute and Europe's leading center for radio astronomy at millimeter wavelengths.
Belle-2	Belle II has been designed to make precise measurements of weak interaction parameters, study exotic hadrons, and search for new phenomena beyond the Standard Model of particle physics. Belle II is an international collaboration of 125 institutions

Stakeholder	Short Description
ESCAPE	The European Science Cluster of Astronomy & Particle physics ESFRI research infrastructures (ESCAPE) aiming to address the Open Science challenges shared by ESFRI facilities (SKA, CTA, KM3Net, EST, ELT, HL-LHC, FAIR) as well as other pan-European research infrastructures (CERN, ESO, JIVE) in astronomy and particle physics.
Punch4NFDI	PUNCH4NFDI is the NFDI consortium of particle, astro-, astroparticle, hadron and nuclear physics, representing about 9.000 scientists with a Ph.D. in Germany, from universities, the Max Planck society, the Leibniz Association, and the Helmholtz Association.

Target Group 2 (TG2): Computing & Data Service Providers & e-Infrastructures

Existing Data, HPC, HTC, Cloud, Quantum and other Compute service providers, infrastructures and facilities at national and EU level. This group includes SPECTRUM project partners. They need to be **aware** of the project, and are expected to **take up** and **implement** project outputs. Representatives actively **engage** with the project via membership of SPECTRUMCoP and its Working Groups.

Targeted as project partners, SPECTRUMCoP members
Directly targeted in all phases of the project through social media and events

Table 5: Examples of TG2 Stakeholders

Stakeholder	Short Description
WLCG	The Worldwide LHC Computing Grid (WLCG) project handles Computing for the LHC experiments primarily, but has as observers DuNE, Virgo, Belle-2 and SKA.
HEP Software Foundation	The HEP Software Foundation facilitates cooperation and common efforts in High Energy Physics software and computing internationally.
EVERSE	The EVERSE project aims to create a framework for research software and code excellence.
OSCARS	OSCARS brings together world-class European Research Infrastructures (RIs) in the ESFRI roadmap and beyond to foster the uptake of Open Science in Europe including those in Astronomy, Nuclear and Particle Physics domains.
EuroHPC Hosting Sites	EuroHPC JU has procured nine supercomputers, located across Europe.
ETP4HPC	ETP4HPC – the European Technology Platform (ETP) for High-Performance Computing (HPC) - is a private, industry-led and non-profit association. Its main objective is to guide the development of the European advanced computing ecosystem
HIPEAC	HiPEAC (High Performance, Edge And Cloud computing) is the premier focal point for networking, dissemination, training, and collaboration activities in Europe for researchers, industry, and policy related to advanced computing systems.
EuroCC / Castiel	EuroCC aims to build a European network of 33 national HPC competence centres to

Stakeholder	Short Description
	bridge the existing HPC skills gaps while promoting cooperation across Europe.
PRACE	PRACE (Partnership for Advanced Computing in Europe) provides access to HPC user community
CERN openlab	CERN openlab accelerates computing for science by forging collaborations between CERN and leading research centres worldwide.
EuroHyPerCon	The main scope of the EuroHyPerCon project is to identify and analyse the connectivity requirements of European and national High Performance Computing (HPC) systems and data centres in Europe, and subsequently specify a future-proof connectivity service, along with its implementation roadmap.
interTwin	interTwin aims at designing and building a prototype of an interdisciplinary Digital Twin Engine (DTE), based on a co-designed Blueprint Architecture. 2 of main use case development areas are Radio Astronomy and High Energy Physics
InPex	The International Post-Exascale Project (InPEx) brings together researchers, engineers, companies, funding bodies and policy organisations to contribute to the implementation of an international, shared, high-quality computing environment based on the principles and practices of co-design

Target Group 3 (TG3): Policy Makers and Funders

This group includes, but is not limited to, stakeholders such as the European Commission, EuroHPC, EOSC, National Authorities and ESFRIs. They need to be **aware** of the project, and are one of the target groups of the SPECTRUM SRIDA. They need to be closely **engaged** with the project to provide input and align policies, and to **take up** its outputs.

Directly targeted in phase 2 of the project through social media and events

Table 6: Examples of TG3 Stakeholders

Stakeholder	Short Description
EOSC	The ambition of the European Open Science Cloud (EOSC) is to provide European researchers, innovators, companies and citizens with a federated and open multi-disciplinary environment where they can publish, find and reuse data, tools and services for research, innovation and educational purposes.
EVERSE	The EVERSE project aims to create a framework for research software and code excellence.
OSCARS	OSCARS brings together world-class European Research Infrastructures (RIs) in the ESFRI roadmap and beyond to foster the uptake of Open Science in Europe including those in Astronomy, Nuclear and Particle Physics domains.
EuroHPC	EuroHPC JU is the joint initiative between the EU, European countries and private partners to develop a World Class Supercomputing Ecosystem in Europe.

Target Group 4 (TG4) Researchers from the 'long tail of science' and Target Group 5 (TG5) Research Institutions/Universities/Industry/SMEs

Individual researchers: as part of scientific communities and research infrastructures they engage with SPECTRUM, in particular for the use cases and SPECTRUMCoP. They are expected to **make use** of the final outputs.
Research Institutions, Universities, Industry, and SMEs are the organisations employing the researchers within scientific communities, backing the computing & data service providers. They are considered as interested parties to l**earn about** the results of the project as future technology/service adopters, vendors, or customers.
Directly targeted in phase 2 of the project through social media and events

Target Group (TG6) General Public

The general public (in particular citizen scientists) **have an interest** in the very high-level directions and evolution of data-intensive science and the future societal and economical impacts.
No specific measures are foreseen aimed at the general public.

Annex 3: Webinar (12/12/2025) Registration Demographics

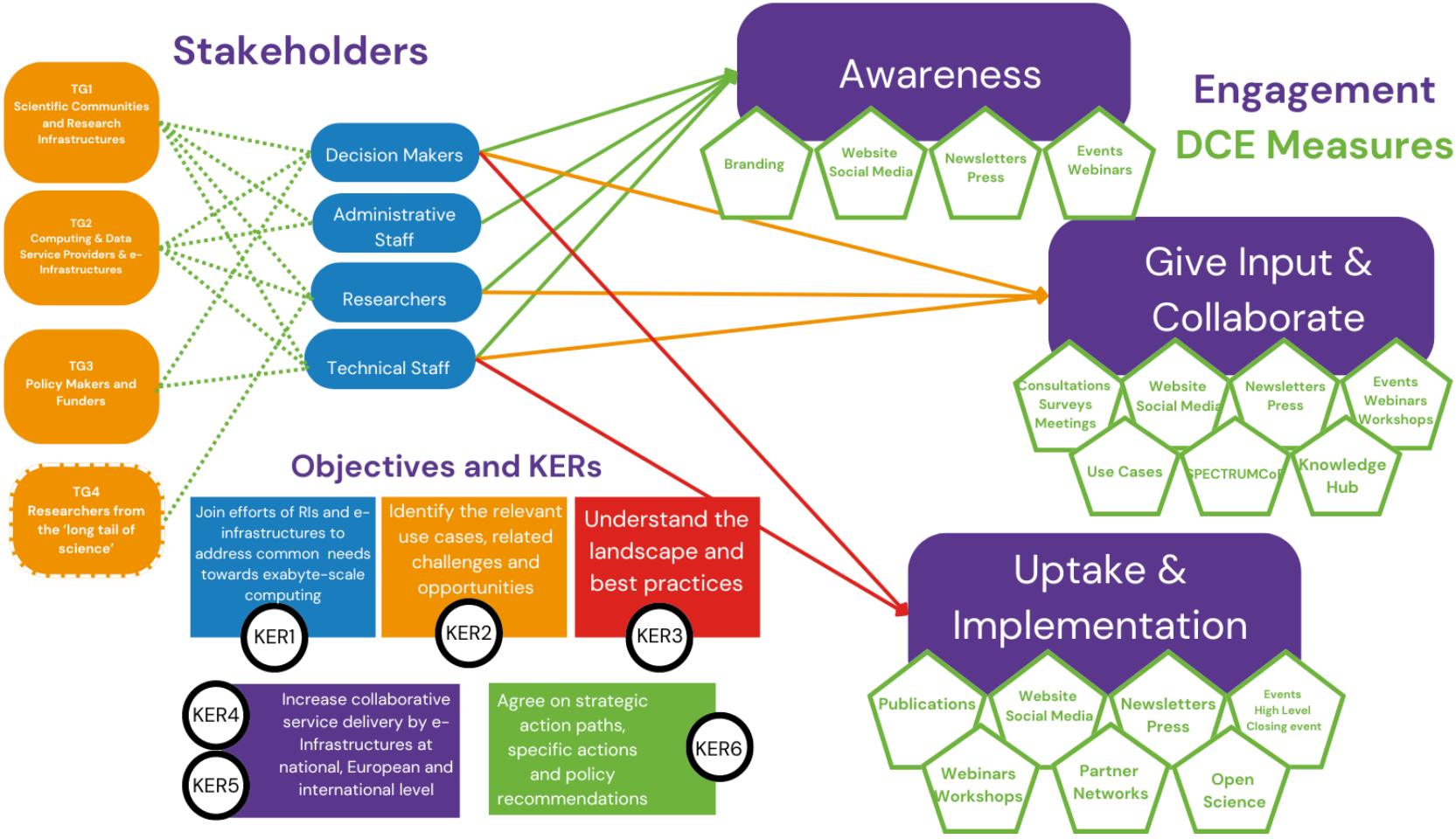
Table 7: Webinar Registration Demographics
(https://www.spectrumproject.eu/article/spectrum-public-consultation-webinar)

Organization	Job Title	How did you hear about this webinar?
Neovia Innovation	Consultant	Other
Neovia Innovation	EU R&I projects designer and manager	Through personal invitation
Neovia Innovation	Research and Innovation consultant	Through personal invitation
Neovia Innovation	Communications & Events Officer	Through personal invitation
Neovia Innovation		Through personal invitation
EGI Foundation		Other
French Ministry of Higher Education, Research and Space	EOSC coordinator	Newsletter
MPIfR / RadioNet	Science Manager / Secretary General	Newsletter
promoscience srl		Newsletter
Laboratoire d'Astrophysique de Marseille	Directeur technique	Other
CNRS, OCA		Through personal invitation
Port d'Informació Científica (PIC)	Applied Scientist (Computing)	Through personal invitation
INFN		Through personal invitation
Abdullah Gül University	Student	Social Media
OCA	Scientific Project Manager	Other
CSC - IT Center for Science Ltd.		Other
Observatoire de la Côte d'Azur	CNES Fellow	Through personal invitation
ASTRON	Programme Manager	Through personal invitation
SURF	Programme Manager	Through personal invitation
UCL		Through personal invitation
surf		Other
CINECA		Other
University of Western Australia		Social Media

Organization	Job Title	How did you hear about this webinar?
Patkai Himalaya Foundation	Director	Social Media
CEA		Social Media
IM-TANI - [PARIS]	Director	Newsletter, Social Media
Eastern University	Undergrad Computer Science and Engineering Student	Social Media
European Research Executive Agency (REA)	Project Officer	Through personal invitation
Uva		Newsletter
Leiden Observatory & ASTRON	Postdoctoral researcher	Other
SURF	HPC Advisor	Through personal invitation
CC - IN2P3 / CNRS	System Administrator	Through personal invitation
INFN	Technologist	Through personal invitation
EUR	EDSC business economics finance	Newsletter
SURF	Project Lead	Other
Maastricht University	Product Owner	Newsletter
Nokia Solutions and Networks d.o.o.	Public Sector Vertical Lead	Newsletter
CERN		Through personal invitation
LAPP CNRS	Ingénieur de Recherche	Other
CERN		Other
Safran	Autorité technique et expertise	Through personal invitation
EGI Foundation	Director	Through personal invitation
CNRS		Other
ASTRON		Social Media
Istanbul University		Social Media
Forschungszentrum Jülich	Senior Researcher	Other
SURF		Other
SURF		Other

Organization	Job Title	How did you hear about this webinar?
SURF	Technical Advisor	Through personal invitation
EGI		Other
EGI Foundation		Through personal invitation
SURF BV		Through personal invitation
Masaryk University, Institute of Computer Science	professor	Other
Forschungszentrum Jülich		Through personal invitation
INFN		Other
EPFL		Through personal invitation
IICT-BAS	professor	Through personal invitation
EGI Foundation	IAM Solution Manager	Newsletter
CERN		Other
CERN	Head of CERN openlab	Through personal invitation
TUBITAK ULAKBIM	Chief Researcher	Other

Annex 4: Stakeholder engagement overview from D1.2[15]



[15] D1.2 Dissemination, Communications and Exploitation Plan. https://zenodo.org/records/12704290