



Supporting, Funding and Governing Open Science Infrastructures: “IRSO”, a Library-Led and Reproducible Institutional Model

Elise BRETON, Université Paris Nanterre, breton.e@parisnanterre.fr, <https://orcid.org/0009-0001-4431-9203> ; <https://ror.org/013bkhk48>

Cécile SWIATEK CASSAFIERES, Université Paris Nanterre, cswiatek@parisnanterre.fr, <https://orcid.org/0000-0003-1066-4559> ; <https://ror.org/013bkhk48>

Abstract

The Université Paris Nanterre is a major public university in France, serving over 35,000 students, including 1,300 PhD candidates. Around 1,200 teaching and research staff benefit from the support and training programmes offered by the University Library, which specialises in open access, open science, research data management and diamond publishing. The university has 41 research units and six structured doctoral schools covering the fields of the humanities, social sciences, law, economics, psychology, sport and engineering sciences.

The Université Paris Nanterre in France has made the strengthening of the digital scholarly commons a strategic priority. Since 2022, the institution has mandated its Library to design, structure and lead a dedicated financial, strategic and organisational support scheme for essential open science infrastructures, both in France, Europe and internationally. The Université Paris Nanterre thus runs a project entitled “Supporting, funding and governing open science infrastructures: “IRSO”, a library-led institutional model scalable to consortium level and reproducible for other institutions” is fully aligned with our institution's strategic priorities in the field of open science, as adopted by the University's Board and publicly presented on our Open Science portal.

This “IRSO” programme constitutes one of the major pillars of the Université Paris Nanterre Open Science policy. It:

- supports the long-term sustainability of key infrastructures;
- reinforces collective governance through UPN's active participation in several national and international bodies;
- promotes the open dissemination of research outputs and the implementation of responsible practices;
- enables the development of concrete, beneficial services for the university Research community.

This programme model, conceived and led by the University Library, contributes significantly to the institution's visibility, as evidenced by the national recognition and external evaluations in which it is regularly highlighted. Such a programme fully addresses the objectives of Knowledge Rights 21 notably by strengthening:

- open, sustainable and barrier-free access to knowledge;
- the protection and valorisation of open infrastructures;
- the capacity of university libraries to act as key actors safeguarding the rights to knowledge.

You can read more here:

<https://science-ouverte.parisnanterre.fr/strategie-science-ouverte/soutien-aux-infrastructures-de-la-science-ouverte>

Keywords: Open science; infrastructures; libraries; funding; governance





1. Putting support for open scholarly infrastructures at the heart of the open science strategy

As the dissemination of knowledge and scientific influence are key values of Université Paris Nanterre in France, the institution adopted an ambitious open science policy in 2021.

In order to strike a balance between major commercial publishers and non-commercial services and infrastructures with more precarious business models that provide access to scholarly publications, data and other outputs of public research, Université Paris Nanterre has decided to implement a strategy that promotes bibliodiversity and supports open science infrastructures. This approach reflects Nanterre's original political vision, as well as its humanistic values. Support comes in two forms: financial support for organisations with fragile economic models and participation in the governance of bodies shaping the future of academic research. The IRSO programme is designed to ensure that the values and principles governing these structures remain in line with sound academic principles, are accessible to as many people as possible and serve the interests of citizens, and that they continue to be funded and managed by stakeholders and representatives from the public research sector

2. The Université Paris Nanterre IRSO programme combines strategic, financial and policy support for essential open science infrastructures and network

The institution's strategy has acted with a very strong awareness of the necessary support and reinforcement to be given to the pillar infrastructures of open science. To achieve this strategic goal, the University Library designs and operates on behalf of the institution a structured, robust and sustainable programme called "IRSO" for "*Infrastructures et réseaux de la science ouverte*" / "Infrastructure and networks of open science".

The IRSO programme combines strategic, financial and policy support for essential open science infrastructures and networks at three levels: national, regional (Europe) and international. This approach is grounded in an analysis of researchers' needs, in the university's scientific priorities, and in the imperative to consolidate a sustainable open science ecosystem and humanistic values and realities.

The IRSO programme runs a dedicated annual budget (€55k to €70k between 2022-2026) with five complementary strands. This structure ensures internal coherence while covering the core components of open science. Each year, the library sets the institutional strategic priorities and projects commitments for the following year. The support is focused on the following in both 2026 and 2027:

- support for national, European and international infrastructures committed to an open science approach;
- support for open social sciences and humanities and open monographs;
- support for the ecosystem for the dissemination of open access publications and research outputs;
- support for open software and source code;
- institutional outreach and visibility: host and run events and outreach activities promoting the Université Paris Nanterre within open science initiatives, such as webinars, OA week.

The model rests on a simple observation: the economy of open science is fragile. Many vital infrastructures—HAL, which is the national archive chosen by the scientific and academic community for the open dissemination of its research results harvested by European and global repositories and archives, DOAJ, DOAB, PCI, OPERAS, OpenCitations, ROR—operate with uncertain business models. The Université Paris Nanterre therefore complements funding with a long-term participation in the governance of several initiatives such as EOSC the European Open Science Cloud, OPERAS the European Research Infrastructure for the development of open





scholarly communication in the social sciences and humanities, RDA the Research Data Alliance, strengthening collective stewardship and long-term stability. The Université Paris Nanterre IRSO poster has been widely shared across Europe to promote the IRSO model and its benefits for open science, researchers and citizens (2023 LIBER Annual Conference; Open Science Fair; 2025 update). Showcasing this institutional model and its structuring role within the scholarly communication landscape has proven inspiring for various institutions, and is very important for open science infrastructures, which are now much more closely linked to the library world.

The "Open science infrastructures Support from the Université Paris Nanterre Academic and research libraries" poster created and designed by Cécile Swiatek Cassafieres - Elise Breton - Claire Gadault / Université Paris Nanterre demonstrates the overall methodology and how the whole process works. You can access it online at <https://doi.org/10.5281/zenodo.17345630>, and also read its content below.

3. Approach/methodology

The Université Paris-Nanterre's comprehensive approach to the collection of sources and the publication of its public research results is to promote and foster a high level of bibliodiversity, not only to reflect the rich variety of sources from which research resources are drawn, but also to encourage academic authors, researchers and contributors to engage in thoughtful, informed and ethical scientific publication processes.

In order to preserve bibliodiversity, alongside the purchase of materials from commercial publishers, the institution's libraries highlight open-access publications on their research portal; With regard to publications of research findings (primary sources, articles, chapters, monographs, proceedings, etc.) the Université Paris Nanterre encourages its researchers to publish not only in commercial journals covering the institution's disciplines but also, and above all, via the 'green road' of open access on the institutional repository <https://hal.parisnanterre.fr/>, on open-access diamond platforms, on OpenEditions, and in free, open-access archives and repositories.

STRATEGY

Challenges

- The Université Paris Nanterre (UPN) takes a firm stance in favour of the development of the virtuous ecosystem of open science.
- The UPN is raising awareness about the need to support open science infrastructures.
 - University missions (French Education Code, Art. L123-2 and L123-3).
 - UPN's open science strategy.
 - Active participation in national and international open science networks.

Reasons

- The economy of open science is fragile. We need to build now for the future.
- CC Image by XKCD : xkcd.com/2347/ "All modern digital infrastructure" / "a project some random person in Nebraska has been thanklessly maintaining since 2003"

METHOD

- The libraries propose a list of infrastructures and networks and
- Rector's endorsement

Are based on:

- Scientific and strategic coherence
 - UPN's open science strategy: science-ouverte.parisnanterre.fr
 - France's National Plan for Open Science (PNSO), ouvrirlascience.fr
 - Nanterre's scientific policy values and history, parisnanterre.fr
 - The institution's research disciplines, parisnanterre.fr/unites-de-recherche
- Criteria and requirements / national and international inspiration
 - FNSO, France : Fonds national pour la science ouverte, ouvrirlascience.fr
 - IOI, International : Invest in Open Infrastructure, investinopen.org





- SCOSS, Europe : The Global Sustainability Coalition for Open Science Services - Application process, scoss.org

ACTION

- Libraries...
 - ... initiate, design and manage an institutional budget dedicated to supporting strategically selected players and infrastructures.
 - ... take part in the governance of selected open science infrastructures and networks.

MEANS

- Human Resources dedicated to running the IRSO Programme: 2 librarians
- Budget Year1 (2022): circa 71 000 €
- Main priorities throughout 2022-2026 and beyond:
 - National, European and international open science infrastructures;
 - SHS and open monographs;
 - Open research ecosystem;
 - Open source software and code;
 - Hosting events promoting open science at the Université Paris Nanterre.

The Université Paris Nanterre "*Infrastructures et réseaux de la science ouverte*" / "Infrastructure and networks of open science" (IRSO) local/ institutional programme helped set up a scalable model for the national French consortium Couperin.org and is now aligned with an established national mechanism of pooled support channel operated by Couperin.org, which streamlines collection, processing and redistribution of contributions:

<https://www.couperin.org/category/so/soutien-aux-infrastructures/>. This harmonisation of practices enables collective scale-up and makes the model readily reproducible by other institutions.

Finally, the Université Paris Nanterre "*Infrastructures et réseaux de la science ouverte*" / "Infrastructure and networks of open science" (IRSO) local/ institutional programme directly serves several priorities of the LIBER 35-point action plan "[Improving access and reuse of research results by addressing copyright and data legislative & regulatory issues](#)":

- Part 4 "Access" - Actions for research libraries / Accelerating Open Access (OA) / "promote and sustain Diamond OA and OA infrastructures". Action 1, Research libraries level : "Research libraries can accelerate OA by developing services that support a variety of OA pathways"; and Action 6, Institutional level at Université Paris Nanterre, consistent with the French National Open Science Policy Priority 1: Generalising open access to publications > Concrete measure 2 "Support open access economic publishing models that do not require the payment of articles or books processing charges ("diamond" model)."(<https://www.ouvri.lascience.fr/second-national-plan-for-open-science-npos/>).
- Level: Advocate for Open Science policy.
- Link with the European Open Science Cloud EOSC: strengthening sustainable scholarly communication infrastructures; empowering libraries as drivers of transformation; and advancing responsible research assessment through persistent identifiers, open citations and FAIR-aligned commons. The Université Paris Nanterre holistic approach has proven convincing: the Université Paris Nanterre leadership agreed to join the EOSC as a full member and the University Rector mandated the University Librarian / Library Director to represent the institution and speak on its behalf within the EOSC assembly, to join the national EOSC-France committee, and to participate in discussions on the national EOSC node for the European-level EOSC Federation. This has made it possible to set the Université Paris Nanterre's participation in the EOSC within a coherent framework of



support for open science infrastructures, to strengthen the Université Paris Nanterre's contributions to the EOSC, and to place its participation in the EOSC within a long-term programme, designed and led by the library, which is recognised as an expert and reference service on these issues within the institution.

- Action 26. Implement and manage a data repository (or participate in a shared data repository at the national level).
- Action 27. Monitor the developments of EOSC and its operational framework and contribute where possible.
- Action 29. Implement and manage a shared data repository.
- Action 30. Monitor the developments of EOSC and its operational framework and contribute where possible.

4. Supporting infrastructure that promotes open science: a way of benefitting science, public research and society

The Université Paris Nanterre Library leads and coordinates the entire IRSO support programme for open science infrastructures and networks. The Library plans, prioritises, selects, monitors and documents all actions. Each year, the library produces a structured institutional note, discussed with university leadership and decision-makers so that it is aligned and integrated into the strategic and budgetary dialogue of the university. This note aligns the IRSO programme's priorities with the overarching Université Paris Nanterre's Open Science strategy and anticipates developments for the following year. The University Rector validates the library's proposals each year, consolidating institutional anchoring.

The budget is organised across five structuring axes described above: this framing guarantees coherence and maximises the impact of funding. Selection relies on clear criteria: disciplinary fit and institutional relevance; scientific usefulness; economic robustness of infrastructures; transparent community-centred governance; and alignment with frameworks such as SCOSS, POSI, IOI and, at the national level, with the French National Plan for Open Science criterias/FNSO.

France being very active with CONOSC and SCOSS, this makes the UPN scheme easily reproducible and totally scalable. The Université Paris Nanterre benefits from increased institutional visibility and is recognised by peer institutions, as well as by the French national higher education and research evaluation body HCERES, as an exemplary actor in open science – a distinction that constitutes both a significant honour and a major acknowledgement of the value, effectiveness and national impact of the methods and activities developed through programmes such as IRSO.

Human resources include a specialised headcount within the Library Research Support team, where two librarians are, amongst other responsibilities and missions, responsible for strategic watch, dialogue with infrastructures, participation in international bodies and documentation with the full support and participation of the Library Director, who is sitting on behalf of the Université Paris Nanterre in the OPERAS and EOSC assembly and national nodes steering bodies, for example.

The IRSO Programme is repeatedly featured and highlighted to national training programmes for library directors, research-support managers and open-science services, that can be easily adapted and made available in a diversity of formats (multilingual, onsite, webinars, online



learning). The training modules cover building up open science programmes to support open science infrastructures and networks through funding, strategic action and governance participation. They necessarily address aspects of rights literacy for open dissemination, data stewardship and FAIR implementation, as well as providing a strategic narrative for local practices and workflows.

The best example of this dissemination and exemplarity is the open science support training specifically tailored for library directors and senior managers in open science departments, which has been provided by Cécile Swiatek Cassafieres since 2024. This training displays the method and impact of the Université Paris Nanterre IRSO programme, among other initiatives, at the national LIS school Enssib in 2025. The 2025 and 2026 training programmes can be viewed online here:

2025: <https://www.enssib.fr/l-offre-de-formation/formation-tout-au-long-de-la-vie/piloter-et-mettre-en-oeuvre-la-science-1>

2026: <https://www.enssib.fr/l-offre-de-formation/formation-tout-au-long-de-la-vie/piloter-la-science-ouverte-dans-sa-structure>

The TSOSI (Transparency to Sustain Open Science Infrastructure) platform mentions the Université Paris Nanterre as it is listed amongst the institutions funding global open science infrastructures. The data is still incomplete but takes into account the IRSO initiative since its inception in 2022. The tangible effects of the Université Paris Nanterre's IRSO programme are clear and openly demonstrated, as TSOSI provides transparent, dated and quantified information on the financial support provided by the Université Paris Nanterre to infrastructures such as, for example: OAPEN & DOAB (OAPEN & DOAB), Directory of Open Access Journals (DOAJ), Open Library of Humanities (OLH), OpenCitations (OpenCitations), Research Organisation Registry (ROR), Research Data Alliance (RDA), Public Knowledge Project (PKP), LA Referencia (LA Referencia), Open Policy Finder, Episciences (Episciences), OpenAlex (OpenAlex), Software Heritage (Software Heritage), Mir@bel (Mir@bel), Peer Community In (PCI), OPERAS (OPERAS), European Diamond Capacity Hub (EDCH).

A number of networks and infrastructures that promote open science and receive support from the Université Paris Nanterre have also expressed their gratitude for this support, which enables them to continue on a positive path and motivates them to uphold the values that guide them. For example:

2019. <https://www.couperin.org/so/appel-a-projets/appel-a-projets/>

2026. <https://www.couperin.org/le-consortium/actus/initiation-aux-etudes-juridiques/>

Prémisses avec des vidéos diffusée dans le cadre du consortium national [Couperin.org](https://www.couperin.org) OAT'sUp de l'Université Paris Nanterre en faveur du soutien à l'édition ouverte en science juridiques : depuis, l'Université Paris Nanterre a été l'un des piliers du soutien financier à l'édition, en 2026, du manuel libre et ouverte d'*Initiation aux études juridiques* par [Couperin.org](https://www.couperin.org) en collaboration avec la Bibliothèque interuniversitaire Cujas, l'Institut de recherche juridique de la Sorbonne, les éditions Nouveau Monde et Numérique Premium.

2022. <https://www.openlibhums.org/news/598/>

"It is great to have Paris Nanterre University among our supporters", said Paula Clemente Vega Marketing Officer for the Open Library of Humanities. "When libraries support OLH, they are contributing to the development of an equitable model of scholar-led, community-owned and non-profit publishing ecosystem that could not exist without their support. We'd like to express our gratitude to our member libraries for making our diamond open access model possible."





2024. <https://www.softwareheritage.org/2024/11/26/libraries-infrastructure-code/>

Interview by Software Heritage: Cécile Swiatek Cassafieres, Université Paris Nanterre, “How libraries shape the future of research infrastructure”.

Operationally, the Université Paris Nanterre library uses lightweight templates for due diligence (in terms of governance, finances, and openness criteria), holds strategic discussions with the university leadership to confirm the library’s proposals for prioritising support infrastructures and networks by field of action or thematic area, and uses shared dashboards and/or reports to enable decision-makers to track commitments and outcomes. Memoranda of Understanding and confirmation emails formalise contributions, or Couperin’s standard agreements are used where applicable. Monitoring focuses on service continuity, interoperability, and uptake by the local research community. Thanks to Couperin.org, Université Paris Nanterre has paved the way for other institutions to replicate its model. Traceability is ensured through public pages on the Open Science website of the Université Paris Nanterre, deposits in HAL and Zenodo, TSOSI webpages and internal reports used in national evaluations.

Several French universities have also adopted this approach, demonstrating the effectiveness and adaptability of the Université Paris Nanterre IRSO model, such as the following three research-intensive institutions.

Lille: <https://scienceouverte.univ-lille.fr/nos-engagements/notre-contribution-a-lecosysteme-science-ouverte>

Paris-Saclay: <https://www.universite-paris-saclay.fr/recherche/science-ouverte/soutien-au-developpement-de-la-science-ouverte>

Lorraine: <https://scienceouverte.univ-lorraine.fr/fonds-de-soutien-a-la-science-ouverte/>

Here is a summary of the expected and actual effects, that appears on the Université Paris Nanterre both 2023 and 2025 “IRSO” poster: Swiatek Cassafieres, C., & Gadault, C. (2025). *Supporting and taking strategic participation in open science infrastructures at the Université Paris Nanterre*. Zenodo. <https://doi.org/10.5281/zenodo.17345630>

EFFECTS

The Université Paris Nanterre IRSO programme strengthens and guarantees a healthy and solid governance and the financial robustness of these open science infrastructures.

IMPACT

At Université Paris Nanterre

- INSTITUTION
 - Université Paris Nanterre open science policy and roadmap science-ouverte.parisnanterre.fr/strategie-science-ouverte/la-charte
- RESEARCHERS
 - Meeting the infrastructure needs of the university community
 - Development of open science practices
- LIBRARIES
 - Key role for the library in the university’s open science strategy

For Open Science

- RESEARCHERS
 - Opening up and sharing scholarly publications and research outputs
- CITIZENS
 - Open access to academic research outputs, free of cost or other access barriers





The library-led IRSO programme generates significant impact at multiple levels. For researchers, it secures reliable access to essential infrastructures such as HAL, DOAJ/DOAB, ORCID, ROR and OpenCitations; improves the visibility, quality and reusability of publications and data; supports the dissemination of SSH monographs; and encourages the uptake of free/open-source software, FAIR practices and international standards. This rich material can be used to create tailored workshops and training to upskill library staff and strengthen competencies across research teams.

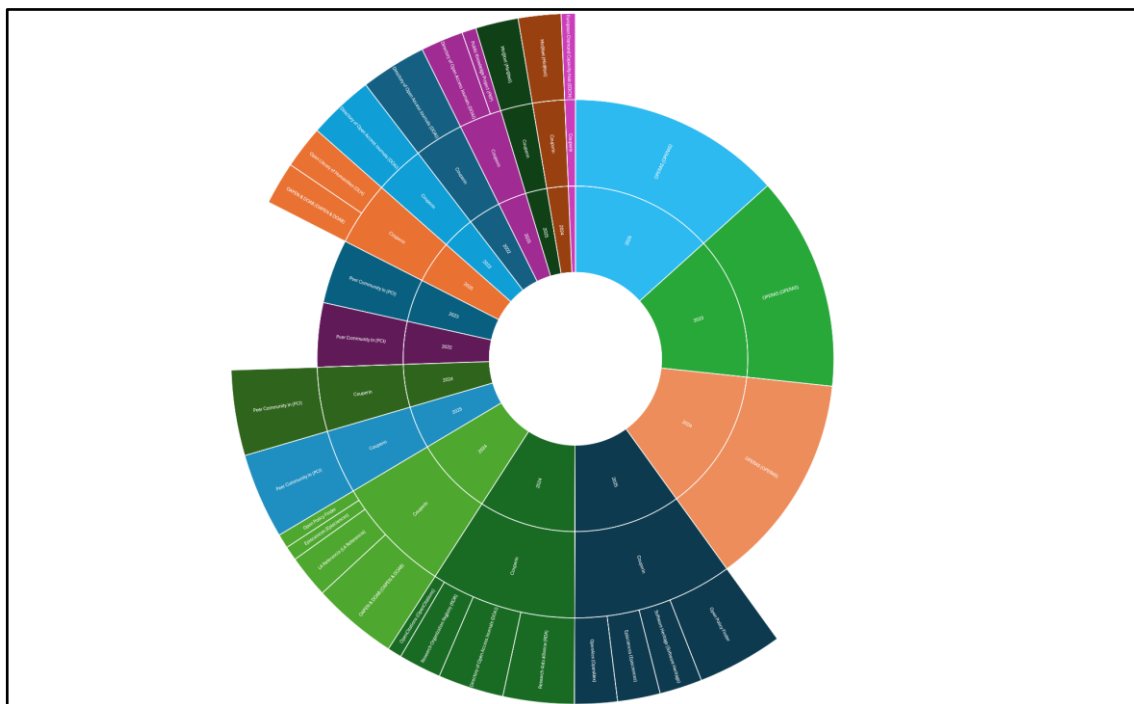
For society, the IRSO programme consolidates the digital commons of research, guarantees equitable and open access to knowledge, and underpins a science-and-democracy agenda based on transparency and reproducibility. It also fuels open innovation by supporting broad dissemination of research outputs, making results more discoverable and reusable by the public, in the spirit of the UNESCO 2021 recommendation on Open Science, where Cécile Swiatek Cassafieres was a LIBER representative sitting on the Expert Bench.

For the Université Paris Nanterre, it is a strategic lever. The IRSO programme is appropriate to be widely highlighted in various training actions and assessments and has already been presented with success within European networks such as LIBER and Open Science Fair. The Université Paris Nanterre library is recognised as an institutional driver capable of carrying an ambitious policy and anticipating changes in the scholarly ecosystem, thereby strengthening Université Paris Nanterre's national and international profile. The approach also reinforces internal coordination between research services, doctoral schools and the library, improving policy coherence and researcher support.

For supported infrastructures, recurring and stable funding combined with Université Paris Nanterre's participation in governance enhances sustainability, service quality and integration within the open research ecosystem. The Nanterre model functions as a genuine institutional investment policy that guarantees robust governance and a long-term perspective. The visibility provided by public documentation, open deposits and shared indicators increases accountability and encourages continuous improvement.

Example: <https://www.openlibhums.org/news/598/> ;
<https://www.softwareheritage.org/2024/11/26/libraries-infrastructure-code/>

Finally, the IRSO programme has sector-wide effects. By its participation in the [Couperin.org](https://couperin.org) open science initiative, the Université Paris Nanterre Library contributes to national convergence towards the sustainable funding of the commons. It also encourages method-sharing and enhances coherent scale-up across institutions, specifically through the engagement of libraries in advancing and supporting open science. In the medium term, the approach facilitates joint training offers and shared guidance materials that other libraries can readily adapt.



1. Breakdown of beneficiaries by year for the period 2022–2025, based on partial data from TSOSI sources.

OPEN SCIENCE HIGHLIGHTS
SOFTWARE HERITAGE / Activity Report 2025

Librarians play a key role in institutional Open Science strategies.

Supporting the supporters

Librarians play a key role in institutional Open Science strategies. Software Heritage supports them through accessible documentation, SWHID guides, CodeMeta resources, and training tailored to software stewardship.

Our participation in events such as the 2025 ADBU Congress reinforced collaborations with French academic libraries and highlighted the growing role of software in library-driven Open Science initiatives.

Learn more
in our
interview
series:

2. Software Heritage about Libraries playing a key role in supporting Open Science, in 2025:
<https://www.softwareheritage.org/2026/01/16/software-heritage-activity-report-2025/>

5. Conclusions and recommendations. Building sustainable scholarly Commons: the strategic value of the library-led IRSO model from Université Paris Nanterre.

At a time when many essential open science infrastructures remain structurally underfunded despite their critical importance to research, libraries have a responsibility to invest in and sustain shared scholarly infrastructures. Rather than multiplying local tools and fragmented initiatives, institutions should prioritise existing community-governed infrastructures and widely adopted standards, pooling resources to improve services, strengthen interoperability and provide a clearer and more coherent landscape for researchers and citizens.

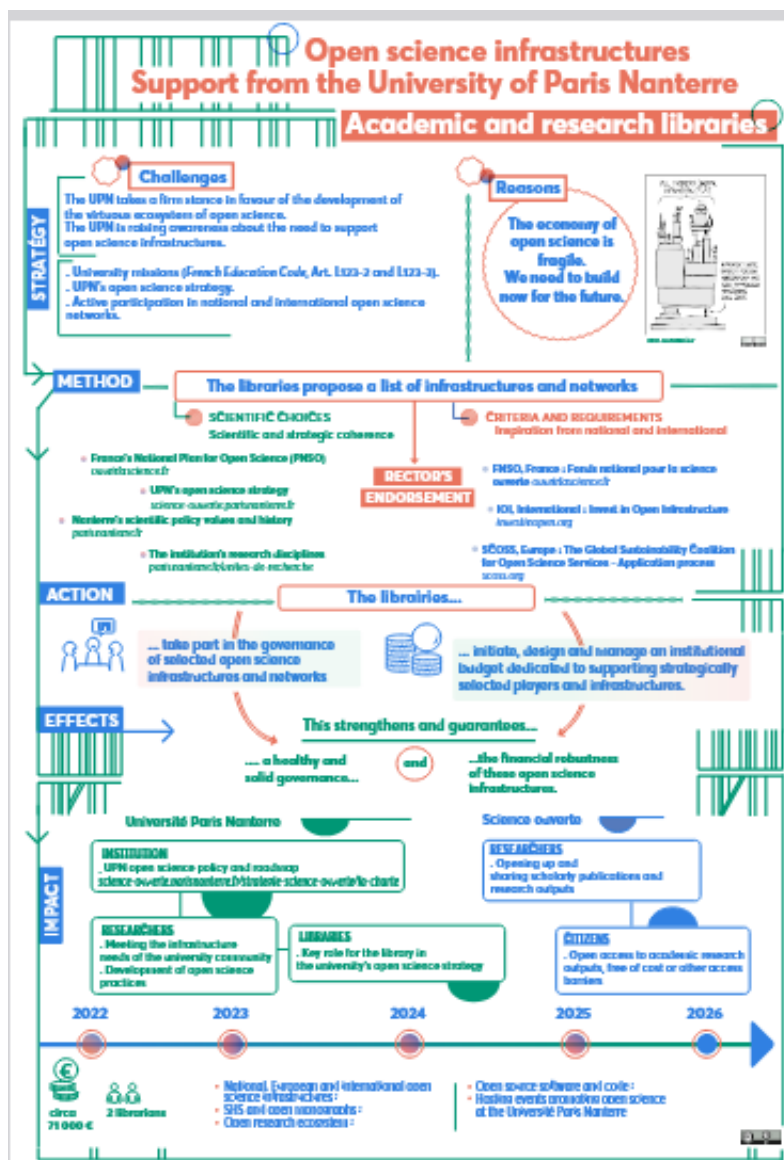
The “IRSO” model from Université Paris Nanterre for supporting open science infrastructures and networks can be used as a sustainable approach to Open Science within institutional strategies. It aims to achieve collective impact through and from institutional commitment. This programme by Université Paris Nanterre demonstrates that academic libraries can move beyond support roles and become strategic drivers of a sustainable open science ecosystem. By combining dedicated funding, active participation in governance, clear institutional endorsement and long-term planning, the library has established a robust, credible and reproducible model that strengthens both the scholarly commons and the institution itself.

Seizing opportunities, avoiding pitfalls: recommendations for Research and academic libraries for scaling impact while avoiding fragmentation

- Embed support for open science infrastructures within the institution's formal open science strategy and governance framework.
- Position the library as the lead actor for coordinating investment, policy alignment, monitoring and participation in infrastructure governance.
- Establish a dedicated and recurring budget for open science infrastructures as a strategic complement to expenditure on commercial scholarly communication services.
- Recognise that if institutions routinely invest significant sums in commercial publishing and information resources, allocating a meaningful share of funding to community-owned and open infrastructures is both proportionate and necessary to ensure a balanced and resilient scholarly ecosystem.
- Prioritise existing trusted infrastructures, standards and community initiatives rather than creating parallel services that duplicate effort and dilute resources.
- Combine financial contributions with active engagement in governance bodies to help safeguard academic values, transparency and long-term sustainability.
- Use transparent selection criteria based on openness, community governance, scientific relevance, interoperability and public value.
- Share methodologies, indicators and training materials through national and international networks to facilitate replication and collective scale-up.
- Adopt and showcase the Université Paris Nanterre “IRSO” model as a proven, scalable and future-proof approach for strengthening open science, preserving bibliodiversity and securing knowledge as a sustainable common good!

Contact point: you can find us online and drop us an email. We would be happy to hear about you.

<https://science-ouverte.parisnanterre.fr/strategie-science-ouverte/soutien-aux-infrastructures-de-la-science-ouverte>



3. Swiatek Cassafieres, C., Gadault, C., & Université Paris Nanterre. (2025). Supporting and taking strategic participation in open science infrastructures at the Université Paris Nanterre [Graphic]. Zenodo. <https://doi.org/10.5281/zenodo.17345630>

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<https://doi.org/10.5281/zenodo.17345630>

Université Paris Nanterre. (n.d.). *Soutien aux infrastructures de la science ouverte à l'Université Paris Nanterre*. <https://science-ouverte.parisnanterre.fr/strategie-science-ouverte/soutien-aux-infrastructures-de-la-science-ouverte>

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