

Activitu report - 2022 3

Editorial by Nathalie Fargier, director of the CCSD

2022 saw the launch of the HALiance research excellence facility. This project is the outcome of in-depth thinking about the future of HAL and will make the archive truly exemplary in its mission of sharing and archiving scientific publications in the service of research. The project is ambitious, in line with the expectations and needs of our users: technical reliability and infrastructure sizing, automation of alignment with reference data, regulation of metadata flows, coordination of publications and data, and targeted collection of publications in addition to self-archiving. After a first year focused on carrying out studies and launching contracts, the operational phase of the HALiance project will begin in 2023.

We also continued the major task of modernising HAL interfaces with the deployment of new models, simplifying the deposit process, and not forgetting the large-scale integration of ORCID and alignment with the ROR.

HAL is not merely an information system, it is the meeting of various communities of users made up of scientists, librarians and institutions who participate

collectively in its enrichment and development. The HAL Partners' Assembly and the CCSD Steering committee and Orientation committee have highlighted this originality, a real asset for French higher education and research, in a common policy declaration. The aim is to emphasise the vitality of the existing ecosystem and the role of the governance bodies and the CCSD in leading it. The final piece in the puzzle came with the inauguration of the international scientific council. Against this background, the CCSD 2022-2027 road map has been updated and its 2023 Action plan published, to provide transparency to all partners and users.

Finally, the CCSD has initiated a process to assess its environmental impact. This is an essential step given the increasing success of its digital platforms: it has passed the milestone of one million documents in HAL and 100 million consultations, 12,000 conferences organised with Sciencesconf and 10,000 articles submitted to Episciences.

Nathalie Fargier, Director



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The CCSD

The CCSD published an updated road map (2022-2027) in July. It incorporates the dynamics created by the National Open Science Plans and takes into account the launch of the HALiance research excellence facility. The main goals are to anchor the CCSD within the Open Science ecosystem, both nationally and internationally; increase use of HAL, Sciencesconf and Episciences; and ensure the sustainability of these three platforms and their service offer.

Missions

Serving researchers and their institutions (universities, schools and research organisations), the CCSD's main mission is to provide tools to facilitate all forms of direct scientific communication and to support the communities that use them.

It is a major player in national and institutional open science policies, including the National Open Science Plans (PNSOs), which aim to broaden open access to publications and to structure and open up research data.

The CCSD develops and administers the three platforms it has created for the archiving, distribution and promotion of scientific publications and data:

- HAL, the multidisciplinary open archive of French research, and its derivative portals;
- Episciences, for journal publication and editorial innovation;
- Sciencesconf, dedicated to the organisation of scientific events.

These platforms allow researchers and their institutions to make their results

visible, discoverable, usable and accessible in the long term and thus to take control of the scientific results process.

The CCSD has two main missions. The first is contributing to the work of developing and creating the repository systems needed to identify French scientific results. The second is participating in all initiatives in France and abroad, particularly in Europe, concerning open archives and open science, which will improve the quality of the service provided to scientific communities and the visibility of their results.

Governance

Setting up of the International scientific council

The first meeting of the International scientific council in May finalised the establishment of the CCSD's governance. This committee is made up of 11 French and international experts in the fields of Open Science, publishing, open archives and research data. Its missions are to formulate opinions and recommendations, advise on partnership prospects and propose initiatives and areas of collaboration in Europe and internationally.

A policy statement to affirm the collaboration around HAL

In June, the Steering committee, the Orientation committee and the Partners' Assembly released a statement which emphasizes the shared construction of the archive and affirms the partnership of the CCSD and the institutions with a HAL portal in this collaboration.

Membership and calendar of the governance bodies

Steering committee

CNRS, INRAE, Inria, MESR, France Universités, director of the CCSD.

Orientation committee

Members of the Steering committee plus 5 elected representatives from the Partners' Assembly, one representative from the Episciences platform and the chair of the CSI.

International scientific council

11 experts in the field of scientific publishing and open archives.

Partners' Assembly

One representative from each institution with a HAL portal.



Significant events in 2022

HAL is being modernised, the CCSD is developing its links with research communities, and collaborations with international Open Science organisations are bearing fruit.



HAL saw two major changes in 2022: a new data model for author management to optimise the use of researchers' identifiers (ORCID, IdRef), and the redesign of user interfaces to make them more intuitive. These two projects, which started in 2019 and whose benefits were

eagerly awaited, have required a lot of input from the team. To facilitate adaptation to the changes, particular attention was paid to user support, with the organisation of webinars, the development of tutorials and the creation of a training course



Creation of the HAL Ambassadors programme

The HAL Ambassadors programme provides the CCSD with a new tool to strengthen discussions between the scientific communities and HAL and to promote the practice of Open Science.

Nine young researchers from various disciplines, all committed to Open

Science and advanced users of open archives and HAL, have agreed to join this new programme and to engage with the CCSD and its team. In particular, they helped to test the new HAL interfaces in autumn 2022 and the training course on HAL deposits designed for researchers.

Collaboration with COAR on a preprint directory

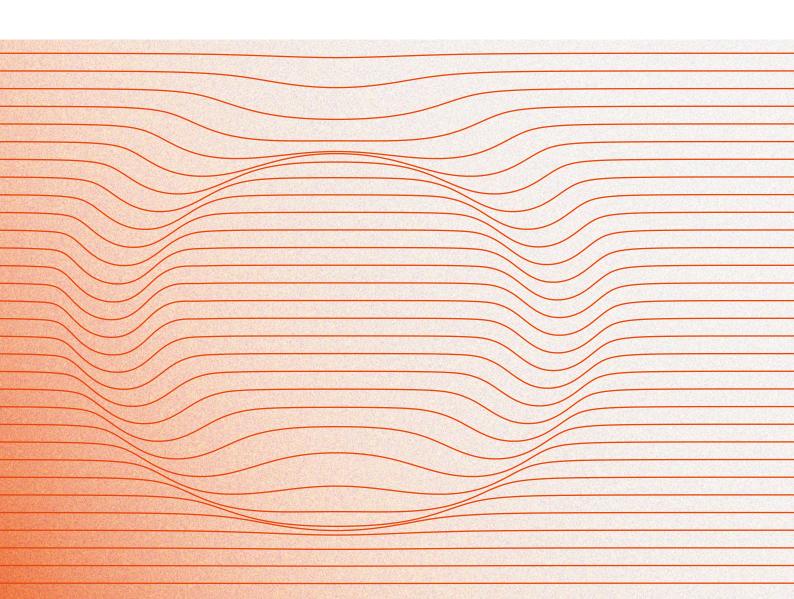
By listing preprint servers in a single database, the Directory of Open Access Preprint Repositories aims to help researchers select the platform best suited to their needs and to have an overview of the preprint ecosystem.

The directory is based on the results of a project led by the Open Science Committee's Pre-publication Platforms group, and is supported by the French Ministry of Higher Education and Research (MESR).

Launched in October, it is the result of a collaboration between the Confederation of Open Access Repositories (COAR)—which hosts the database—and the CCSD which curates it.



Scientific open archive



Change of HAL's user interface

The new HAL interfaces were delivered in November. The first phase of the user interface redesign project, which started in 2019, focused on the researcher's journey and aimed to ensure a more intuitive and natural interaction with the services. The change is immediately obvious on the home page: it makes it easier to consult the various disciplines and the search form takes centre stage. Among the many new features, it is no longer necessary to download a file to read its content: it is displayed directly in the record consultation window. Particular attention has been paid to the deposit form: navigating the form has been simplified, with more sections

allowing easier location of details such as document identifiers or funding.

The CCSD has chosen to leave both user interfaces available temporarily, with the possibility of switching between them, to avoid disrupting habits during deposit campaigns for activity reports.

To prepare the necessary change support for users, the CCSD has been running a trial training course devoted to deposits since the spring. In addition to traditional webinars, which have been offered for nearly three years, several types of material have been developed

(video tutorials, practical guides) and made available on an e-learning platform.

The new interfaces also have an impact on the portal websites: a migration site was made available before the summer so that the portal teams could check and adjust the websites, and sometimes completely redesign them. More than 60 individual interviews (1 hour on average) with members of the portal teams were organised and carried out, as well as web design work on about a hundred sites to adapt them to the new interfaces.

Simplification

of hallscience URLs

From the end of 2022, web addresses ending *archives-ouvertes.fr* are gradually being replaced by *hal.science*. The CCSD's aim is to shorten the URLs and improve the international visibility of the platform and its subsets (portals, collections, CVs).

The preparatory work consisted in setting up redirections, applying corrections to the URLs in the portals, while managing the impact on referencing, particularly in Google Scholar.

By December 2022, the change had been effected for HAL-SHS, TEL, MediHAL and CEL. Replacement of the URLs is continuing in 2023 for the portals.

Incorporation of the new

document typology

Delivered with the new interfaces, the new document typology, proposed in 2021 by a dedicated working group, has also been available since November. In particular, it aims to adapt HAL to new practices (Data Management Plan, Data Paper) and to clarify the types of document (editorship of collective works is no longer offered).

Here again, prior work was carried out to process existing data (correspondence rules, data migration for document types that have changed).

INRAE also took the opportunity to simplify its list of specific metadata associated with document types, inherited from the migration of ProdInra. The portal team requested the support of the CCSD for data preparation and processing.

137,448 fulltext documents

were deposited in 2022

Setting up a national licence agreement with the publisher Elsevier

7,213 deposits were added to existing records of articles published in 2020 via Accepted Author Manuscripts (AAMs) provided by Elsevier. A total of 15,301 PDFs have been imported.

Software source code:

a new route for HAL deposits

The deposit of software source code has been operational since 2018. To adapt HAL to practice in the communities, a new deposit method has been developed based on the Software Heritage identifier (SWHID). If the source code has been harvested by Software Heritage and already has an SWHID identifier, there is no need to deposit the files in HAL. Users can simply enter the identifier and complete their deposit. Tested on the HAL-Inria portal in 2022, SWHID deposit was deployed in production in January 2023.

EOSC-Pillar project:

a prototype for interoperability between HAL and Nakala

Launched in 2019, the EOSC-Pillar project aims to coordinate and harmonise national and theme-based initiatives to support the European Open Science Cloud (EOSC). The CCSD, in collaboration with Huma-Num, is contributing to WP6, which is collecting use cases to improve the use of data in the context of FAIR.

The main strong point of the project is the creation of a prototype (Proof of Concept or PoC) between the HAL and Nakala infrastructures, in particular the synchronisation and exposure of relationships within the two platforms. For HAL, this project allowed for a rethink of the system of relationships between

resources, both internally (between HAL deposits) and externally (HAL deposits with a resource available on Nakala), by drawing on the Datacite relationships vocabulary. It also allowed investigation of the exposure of Nakala metadata in a HAL record.

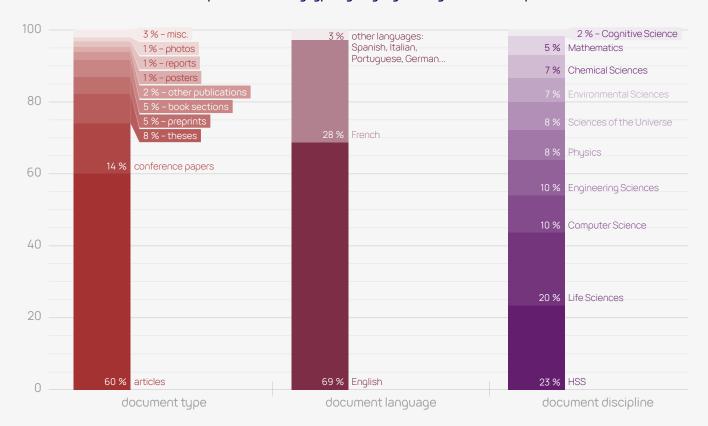
The data exchange protocol used in this PoC has not been adopted for implementation in HAL: the CCSD prefers the standardised COAR Notify protocol, implemented in Episciences.

The CCSD took part in the final project conference, which took place in Paris on 25-27 October.

Number of full-text deposits and records per month in 2022



Breakdown of full-text documents deposited in 2022 by type, by language and by scientific discipline



Changes

to author management

The goal of changing the author management method is to optimise the management of identifiers (ORCID, IdRef) by making it possible to identify authors even if they are not users, which was the case until now. Whether the identifier is retrieved automatically—such as an ORCID in the metadata extracted from the DOI at the time of deposit—or imported—such as the IdRef of the author of a thesis imported by ABES—the new data model facilitates both their internal

processing and their use by other applications or platforms.

Preparing the migration of existing data (almost 3 million author names) into the new author data management model required a significant amount of data cleaning and recovery work, completed by the addition of more than 46,000 IdRef author identifiers in collaboration with ABES.

The migration itself required a one-off service outage over a weekend in June.

As a result of this change, portal administrators now have control over the disambiguation of authors in auréHAL. To promote uptake of the new model and its features, specific support was developed, consisting of 5 video clips and the organisation of 16 Q&A video sessions (from May to July).

More than 100,000 ORCID

The migration of author data into the new data model made it possible to import all the ORCID identifiers in the database into auréHAL: the 34,000 ORCIDs associated with an idHAL were supplemented with all the ORCIDs used for authentication, and those recovered via data mapping with the ABES IdRef database. By the end of the year, there were a total of 125,631 ORCIDs in auréHAL.

Elimination

of invalid email addresses

Each user account has an associated email address which is used to send notifications (document watch alerts, sharing ownership, requests for moderation changes, etc.). An invalid address therefore makes the distribution of information ineffective. In addition, email service providers (such as Free) consider repeated sending to invalid or non-existent mailboxes as suspicious behaviour and block the messages sent.

To improve quality of service, an operation to identify invalid email addresses was carried out during the last quarter: more than 6,000 were thus inactivated (HAL no longer sends notifications to these addresses).

In addition, a new procedure was introduced in HAL: when users modify the email address in their profile, they must confirm it via a message in their inbox.

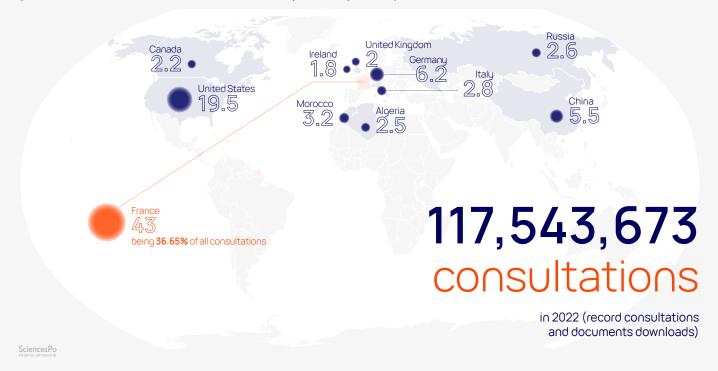
Enhancement of research structure reference data

with the ROR repository

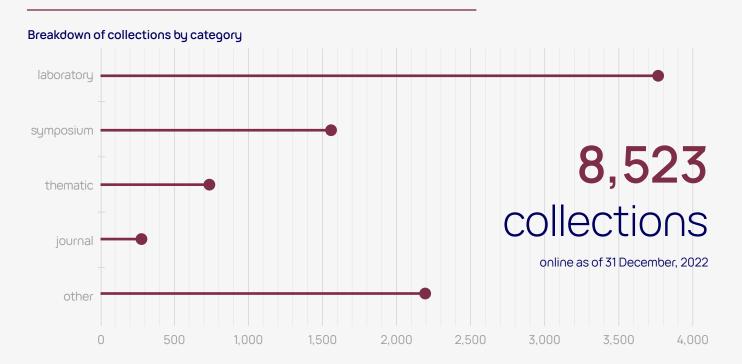
Based on existing identifiers (ISNI for example) in the HAL database on the one hand and in the ROR (Research Organization Registry) on the other, an initial phase of enhancement of the metadata on research structures with ROR identifiers has been carried out.

At the start of the year, nearly 900 ROR identifiers had thus been added to the database. This will improve the interoperability of HAL and other sources of metadata. It will help to ensure the unambiguous affiliation of authors.

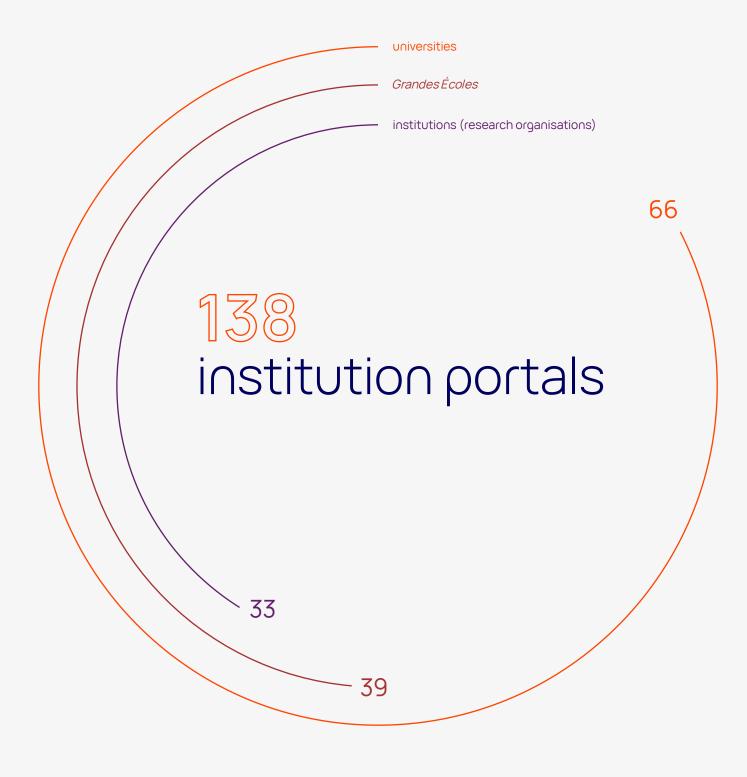
Top 10 countries—plus France—with the most consultation logs (record consultations and document downloads) in 2022 (millions)



Focus on the collections



Institutional portals



Activities of the Partners' Assembly

A highlight of the year, the Assembly's annual meeting in July, again held remotely this year, brought together around a hundred participants. It was an opportunity to take stock of the Assembly's first year and to hold workshop discussions on the Open Science policies of institutions, the links between publications and data, and measures to open up science.

New version of the T&Cs for HAL Portals

A consultation on the portal Terms and Conditions of Use (T&Cs) was a key focus in 2022. An initial phase of consultation with the institutions and their legal departments made it possible to collect comments and suggestions for improvement. Based on this data, the CCSD, in close collaboration with the legal department of the Rhône Auvergne Delegation of the CNRS, proposed a new version of the T&Cs, which was submitted to a panel of institutions during a consultation phase and then validated by the CNRS Legal Affairs Department. The new, better-balanced version was accompanied by a policy statement, drafted by a working group and validated by the CCSD Steering committee. This declaration underlines the joint construction of HAL and the partnership aspect of the collaboration between the CCSD and institutions with a HAL portal.

As of 31 December, 91.2% of the institutions had signed the T&Cs and 63% had paid their annual fee.

Deliberations on moderation

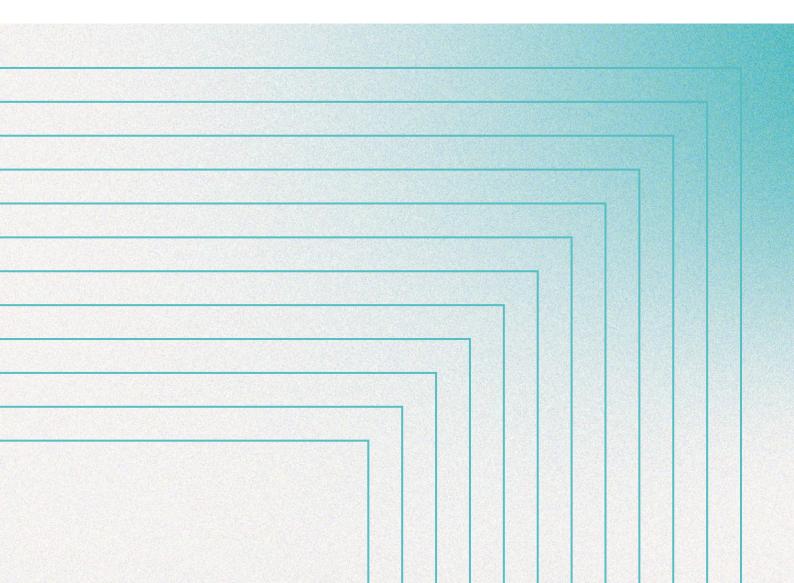
arrangements

Bringing together members of the Assembly, representatives of the CasuHAL user club, Inist and Inria, a working group led by the CCSD deliberated on a shared definition of moderation and organisational models to strengthen its pooling.

Its work was partly based on the results of a survey of members of the Partners' Assembly in the first quarter of 2022. The answers highlighted the benefits (control of the entire HAL deposit chain, implementation of a local service for depositors and adaptation of the service offer) and the obstacles (lack of personnel and difficulty in taking on the workload). On 12 December 2022, the working group presented its ideas during a webinar for feedback and discussion, which was attended by over 80 participants.



Open access scientific journals



25 journals

The platform includes 25 journals, of which 3 were put online in 2022:

- Journal of Theoretical, Computational and Applied Mechanics,
- Les Cahiers Scientifiques du Transport,
- Mathematical Neuroscience and Applications.

Editorial

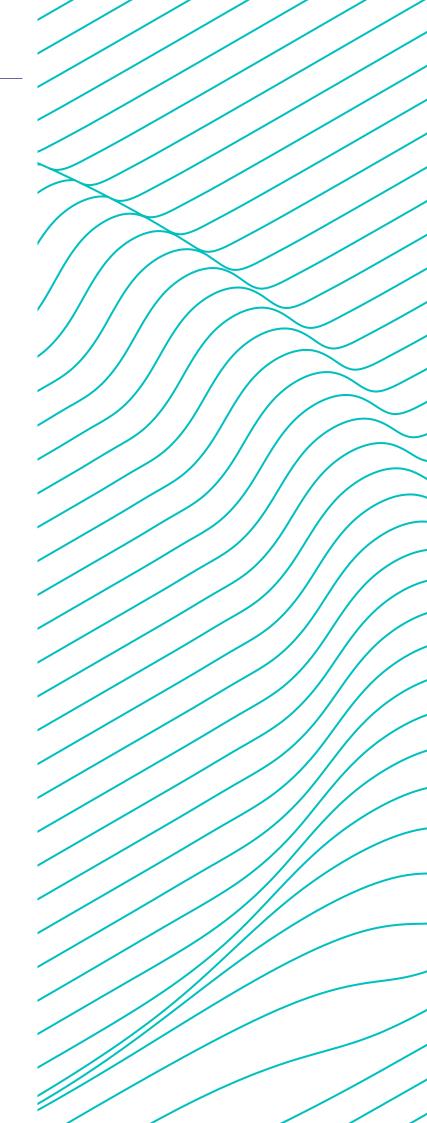
support

2022 saw the consolidation of the editorial support service offer.

In particular, this resulted in the preparation of three grant applications for the 2023-2024 InSHS campaign. The obligation for a journal to be listed by the DOAJ, and to have an entry on the Mir@bel portal to complete these applications, supported and structured the referencing campaign in these two directories, led by the CCSD in collaboration with Inria and the Institut Fourier, for all the journals present on the platform. The journals' editorial policy statements were also published on Sherpa/Romeo on this occasion.

In addition, the CCSD organised the implementation of best editorial practice, in line with international standards: contract with authors, Creative Commons licence, publication policy.

Finally, in preparation for the redesign of the Episciences website, a journal cataloguing project was carried out at the end of the year (structuring and collecting bibliographic information).



FAIR enhancement of metadata

OpenAIRE Nexus project

The OpenAIRE Nexus project, in which Episciences participates, brings together data producers and analytical tools to create synergies to facilitate sharing, monitoring and discovery of resources.

By interfacing with other services, Episciences can extract and enhance its own metadata with:

- the ORCID identifier of the authors (OpenAIRE Graph),
- the identifier of the research project (OpenAIRE Graph),
- the licence (Datacite, OpenAIRE Graph, HAL),
- the DOI and dataset linked to the article (ScholeXplorer),
- the DOI of documents that cite the article (OpenCitations).
- affiliations, free text or linked to the ROR.

The metadata and the source of the metadata have been displayed in articles since October 2022.

This system is part of a virtuous circle since Episciences, as a content producer, in turn enhances the embedded metadata with the DOIs it assigns, thus facilitating the discovery and accessibility of articles published by the journals.

11,189 user accounts

of which 1,389 were created in 2022

Automation of notifications

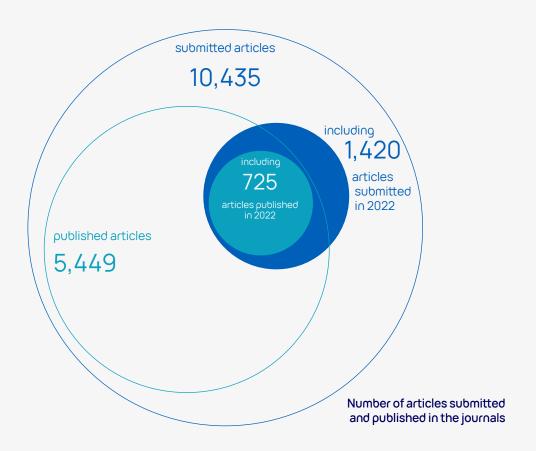
with the COAR Notify protocol (HALOWIN project)

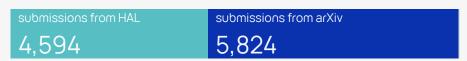
The HALOWIN project aims to improve interoperability between HAL and manuscript (preprint) review services by developing a technical framework for the automated exchange of documents, metadata and notifications.

Exchanges between Episciences and HAL, as well as between Peer Community In (PCI) and HAL are processed under the standardised COAR Notify protocol. HAL is notified automatically when a deposited preprint is either published in an Episciences journal or recommended in PCI.

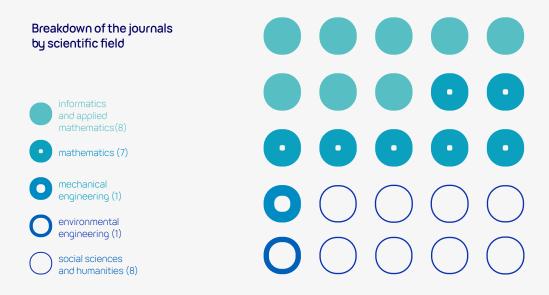
As part of this project, the Signposting the Scholarly Web method has also been implemented: this approach promotes the automatic machine discovery of the available metadata formats (BibTeX, JSON, OpenAIRE, etc.) and strengthens the interoperability of Episciences.

The project will be completed on 31 December, 2023.



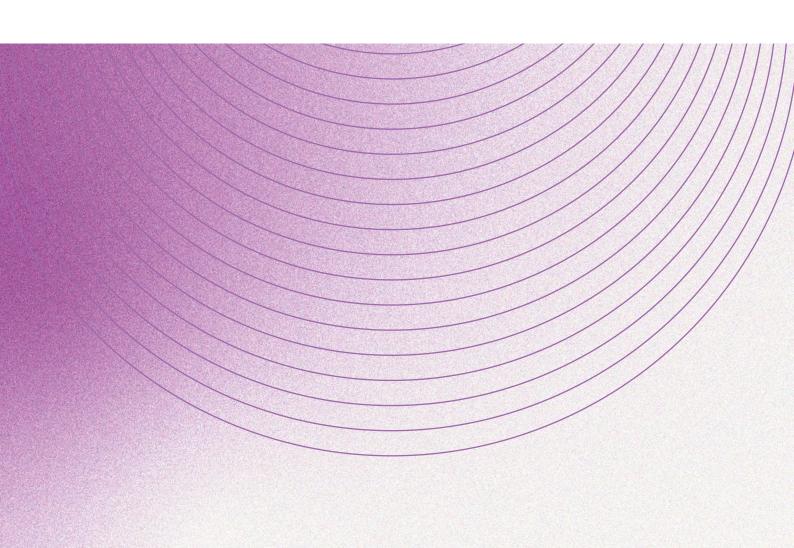


Origin of articles submitted to the journals





Management of scientific conferences



104,654 registrations

In 2022, 104,654 people registered for conferences created on Sciencesconf

Strenghtening interoperability

with HAL

In 2022, Sciencesconf reinforced its interactions with HAL.

auréHAL is now a data source when entering the names of the authors of a paper in Sciencesconf (with the possibility of auto-fill).

Another theme of this consolidation is to facilitate the export of papers to the archive: conference managers can select those they wish to transfer to HAL (full text only). The exports take account of the idHAL if it is in the data.

Improved

security

Developments have also been implemented to adapt Sciencesconf to European directives on the security of Internet payments: this mainly involves compliance, including the management of new fields, with Paybox switching to Secure3D v2 for paid registrations using this system.

The addition of a CAPTCHA on the account creation form prevents the mass creation of accounts by robots and thus increases the security of the platform's websites.

58,508 conference papers

In 2022, 58,508 papers (full text or abstracts) were submitted to Sciencesconf, an increase of 40% on 2021.

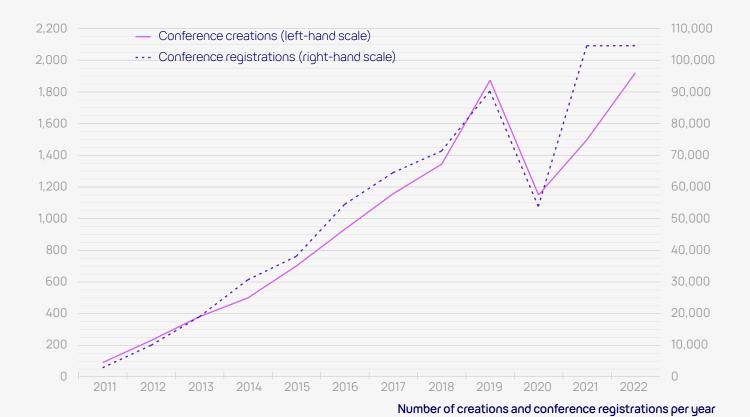
Developments

for interactions with the WordPress site

The service for the redesign of the CCSD institutional website also includes a WordPress website to promote the Sciencesconf service offer. This site is the entry point to the platform, for conference creation requests and to consult the list of conferences or to search for one.

Interaction with the WordPress site required development work: consulting the list of conferences is now adapted to smartphone and tablet screens, and RSS feeds have been added to provide a dynamic display of indicators on the home page (number of conferences, papers and transfers to HAL).

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50,000 Abstracts Full-text 45,000 40,000 35,000 30,000 25,000 20,000 15,000 10,000 5,000 0 2013 2015 2018 2014 2016 2017 2020 2021

Number of papers transferred to HAL per year

EquipeX+ **HALiance project**

Equipex+ HALiance is a 5.5-year project funded with a budget of €3.4m. Centred on HAL, its goal is to expand the service offer, strengthen interactions with other players in the knowledge ecosystem and fully satisfy Open Science criteria of excellence, both nationally and internationally.

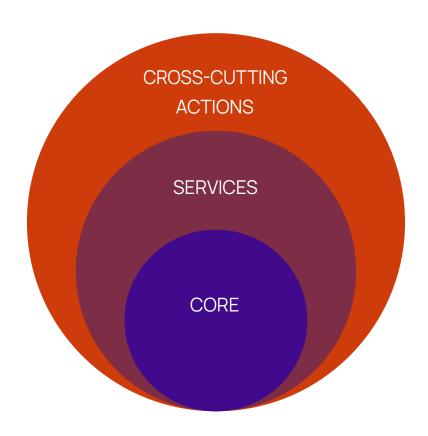
It is based on renewal of the core hardware and software.

2022 saw the start of the project, with the organisation of human resources (setting up teams and recruitment), study and planning phases, and the use of service providers to support and implement some of the actions.

Recruitment of 1 fixed-term developer in September and a phase of 3 recruitments at the end of the year.



Division into 9 Work Packages (WP)



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Achievements

in 2022

WP1	Upgrading and securing HAL's physical infrastructure	 Installation of the HAProxy ALOHA load balancer Change of a switch (replaced with an optical switch) Creation of the SolR cluster Installation of a MySQL cluster for future use Technical investigation of a redundant backup solution
WP2	Migrating, securing and opening the HAL software code	 Study of architectures and migration Creation of a product backlog (inventory of features and tasks, prioritisation)
WP3	Metadata extraction and alignment with HAL reference data	 Feasibility studies for improved extraction of funding and licensing information from the full text Definition of specifications for the automatic author affiliation service Exchanges with partners Inria and Science-Miner
WP4	Organising and documenting the life cycle of bibliographic metadata imported to HAL	 Definition of specifications (metadata traceability, conflict management rules) Exchanges with partner IN2P3
WP5	Coordinating HAL with preprint review systems and making the publication cycle visible	Actions in this work package are a continuation of the HALOWIN project. This project has been extended to the end of 2023.
WP6	Implementing a new method for populating HAL by collecting scientific publications (full text)	 Use of the corpus produced by Inist as part of the CorHAL project Start-up of implementation of the service Recruitment of a developer
WP7	Coordinating publications in HAL and the research data associated with them	- Exchanges with partner INRAE in the framework of the national repository recherche.data.gouv
WP8	Ensuring visibility and uptake of new HAL services by its users	Definition of a communication planDefinition of an action plan for user engagement
WP9	Ensuring consistency with FAIR principles	- Recruitment of a data steward to take charge of Core Trust Seal certification

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User support, training and assistance

The support service in 2022

The CCSD has developed and implemented specific support actions to facilitate the adoption of recent developments.

Training of researchers in the HAL deposit process is now scenario-based: the one-hour webinar has been retained, but it now forms part of a training course that blends several learning methods (video tutorial, practical guide, webinar), available on an e-learning platform. The course was delivered at the same time as the new interfaces. This major project, which lasted several months, is a precursor for a broader range of training courses.

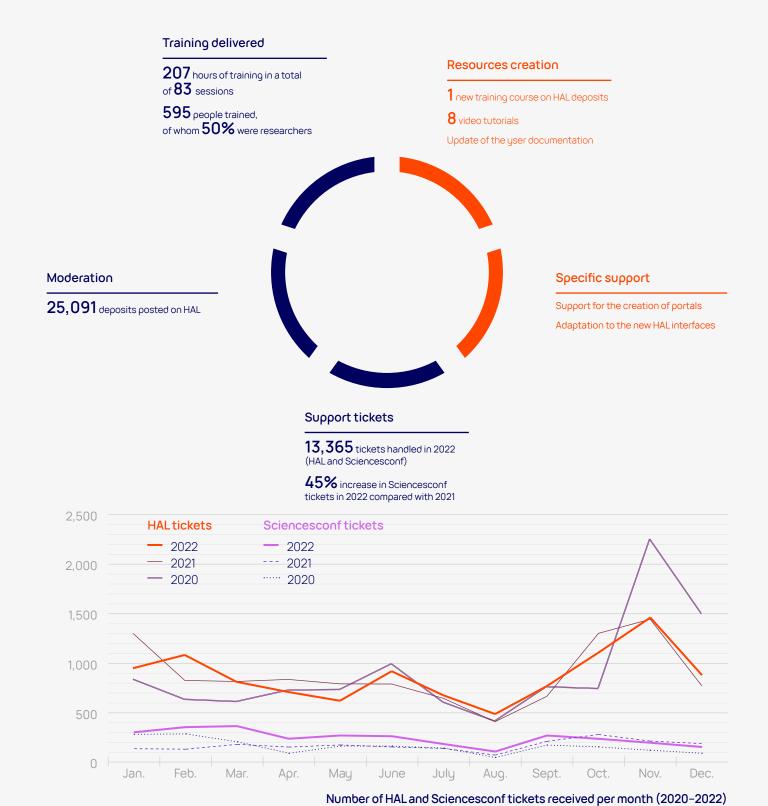
In 2022, the teams in charge of portal administration were impacted both by the changes in author management and adaptation of website appearance to the recommendations of the user-interface redesign project. Strengthening support for these teams was a priority for the CCSD. To guide them through the new author management model, the team designed and produced 5 video clips and hosted 16 Q&A sessions. For the appearance of the websites, one person specifically dedicated to monitoring the websites conducted 60 interviews to support the portal teams and worked on 47 sites. In addition, a web designer was assigned to identifying and reworking 55 portal websites (estimated time: 1.5 months/ FTE).

Trainings in New Caledonia

The University of New Caledonia requested support from the CCSD to organise and implement a programme of Open Science conferences and training from the 24 October to the 4 November. One team member coordinated and facilitated the planned actions on site (40 hours).

Panorama of the activity

of user support



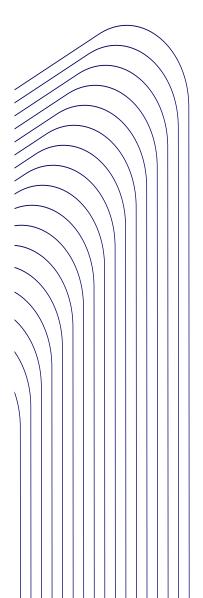
Communication review

Open Science Talks

The CCSD has compiled the video recordings of the 5 information webinars it organised under the "Open Science Talks" series. Initially designed for members of the Partners' Assembly—with the exception of one session in collaboration with the CasuHAL user club—these webinars were later made available to all. In this first year of its existence, 718 people took part in these sessions.

New websites

The CCSD is consolidating its brand identity by continuing to work on application of the new graphic charter. Its strategy is based on the redesign of the CCSD institutional website and the creation of two websites to present Episciences and Sciencesconf. From the choice of service provider through to delivery the project took place throughout 2022 and the sites were launched in January 2023.



Creation of 3 distribution lists

The CCSD created three distribution lists to keep HAL users informed:

- portails-hal@groupes.renater.fr
- collections-hal@groupes.renater.fr
- moderation-hal@groupes.renater.fr Only users with the corresponding rights in the database (administrator, collection manager and technical validator) can subscribe to each of these lists.

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Communication channels

of the CCSD

CCSD blog

23 posts

13,000 cumulative visits on blogposts

ActuHAL newsletter

1,577 subscribers

5 editions

Average opening rate of 37.8%

Average click rate of 14.87%

Youtube CCSD

10 videos uploaded

3,372 views on uploaded videos

306.7h of cumulative watch time



Twitter account @hal_fr

9,645 followers, including 850 new followers in 2022 (+ 10%)

152,187 tweets impressions

3.35% average engagement rate

CCSD LinkedIn account

 $406 \; \text{followers, including 251 new} \\ \; \text{followers in 2022} \; (\text{+ } 162\%) \;$

8,710 cumulative single impressions

8.66% average interaction rate

Twitter account @ccsd_fr

3,616 followers, including 287 new followers in 2022 (+ **9%**)

166,933 tweets impressions

3.79% average engagement rate

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List of communications and trainings

January

25 January 2022

Yannick Barborini, *Recommandations* pour les sites des portails et collections (nouvelle IHM de HAL), Casuhal webinar

March

29 March 2022

Anaïs Elizéon, *Introduction* aux archives ouvertes, Mediadix

April

5 April 2022

Céline Barthonnat and Raphaël Tournoy, *Publier* en Open Access diamant: un modèle de collaboration avec HAL, arXiv, Zenodo ou CWI, CCSD webinar

7 April 2022

Anaïs Elizéon, *Comprendre et mettre en œuvre l'Open Access via HAL*, Mediadix

May

18 May 2022

Anaïs Elizéon, *Le dépôt et la recherche dans HAL*, Enssib (curator students and librarians)

31 May 2022

Bruno Marmol, Les logiciels dans HAL : une collaboration entre Software Heritage, Inria et le CCSD, CCSD webinar

June

6-9 June 2022

Raphaël Tournoy, Silvio Peroni,
Jose Benito Gonzalez Lopez,
Marion Gaigeot and Agnès Magron,
Episciences: enhancing interoperability
and metadata between an overlay
journal platform, linked repositories
and OpenAIRE open sciences tools and
services. OPEN REPOSITORIES 2022–
17th International Open Repositories
Conference (OR2022), Denver, USA.
(https://doi.org/10.5281/
zenodo.7514339)

9-10 June 2022 - Journées CasuHAL

- Yannick Barborini, Présentation des nouvelles interfaces chercheurs
- Céline Bray and Isabelle Guay, Sciencesconf: gestion scientifique et export vers HAL
- Hélène Begnis and Bruno Marmol, Point sur les projets en cours et à venir

14 June 2022

Céline Barthonnat and Raphaël Tournoy, *Episciences*: workflow éditorial de revues au-dessus des archives ouvertes (workshop), Salon de l'édition scientifique en accès ouvert, Journées Prairial

28 June 2022 - Les nouveaux modèles d'édition. Centre Mersenne

- Nathalie Fargier, Aspects économiques et organisationnels de plusieurs plateformes de diffusion ou maisons d'édition en libre accès (round table)
- Nathalie Fargier, Quels défis pour les plateformes ou maisons d'édition en libre accès afin d'assurer la stabilité, la pérennité de leur modèle et d'accompagner les revues ?

September

14–16 September 2022 – 10° journées du réseau Medici

- Céline Barthonnat,
 Marion Gaigeot, Agnès Magron and Raphaël Tournoy, Episciences: une solution complète pour la publication de revues scientifiques en accès ouvert diamant (poster)
- Agnès Magron, Circulation des savoirs et mesure (round table)

19 September 2022

Agnès Magron, *La Science ouverte* (round table), start of the year for master's degree students, Enssib

27 September 2022

Bénédicte Kuntziger, *La politique* Science ouverte des agences de financement et leur mise en œuvre dans HAL, CCSD webinar

October

10 October 2022

Anaïs Elizéon, *Ribac*, InSHS along with an online training cycle by Sylvain Besson: 26 October, 18 November, 30 November, 16 December

17 October 2022

Sébastien Mazzarese, HAL, un atout français pour la Science ouverte, Digital training for new students in French Schools Abroad

17-19 October 2022

Sébastien Mazzarese, Ateliers HAL: dépôt, idHAL et CV HAL, Digital training for new students in French Foreign Schools

Key

Intervention in a scientific conference

Publication of an article in a scientific journal Organisation of a training session for an external structure

18 October 2022

Émilie Cassagne and Agnès Magron, Les nouveautés de HAL, réseau Démocrite-IN2P3

24 October – 4 November 2022 – Université de Nouvelle-Calédonie

- Anaïs Élizéon, Conférence d'introduction : présentation des principes et des axes du PNSO
- Céline Barthonnat, Les nouveaux modes de publication et l'exemple de la plateforme de revues Episciences
- Anaïs Élizéon, Présentation générale de l'archive ouverte nationale HAL et de son écosystème
- Anaïs Élizéon, Science ouverte : plateforme HAL et gestion des données de la recherche

26 October 2022 - EOSC-Pillar final conference

Adeline Joffres, Nicolas Larrousse, Alice Ball, Yannick Barborini and Bénédicte Kuntziger, *FAIR principles in data life for humanities* (poster). EOSC-Pillar Final Conference, Oct 2022, Paris, France. (https://dx.doi. org/10.5281/zenodo.7156780, https:// hal.science/hal-03805632)

October 2022 - Archimag

Anaïs Elizéon and Agnès Magron. Valoriser les publications scientifiques de son institution avec un portail HAL, Archimag, October 2022, pp.44-45

November

15 November 2022

Émilie Cassagne, Accompagner les chercheurs dans l'utilisation de HAL, Dépôt, Export, idHAL et Valorisation, Université Gustave-Eiffel

17 November 2022

Émilie Cassagne, *Gérer une collection* dans HAL : fonctionnalités, API et valorisation des données HAL, URFIST

24 November 2022

Hélène Begnis, Comment encourager et faciliter les dépôts en archive ouverte ?, Enssib

December

5 December 2022

Bruno Marmol, ORCID et HAL, ORCID France Consortium general assembly

6 December 2022

Céline Barthonnat and Raphaël Tournoy, Episciences: une solution complète pour l'édition et la publication de revues scientifiques en accès ouvert diamant, URFIST

12 December 2022

Émilie Cassagne, *Gérer une collection dans HAL*, URFIST

13 December 2022

Bénédicte Kuntziger, *Workshop ORCID pour les DU*, Université Claude Bernard – Lyon 1

13 December 2022

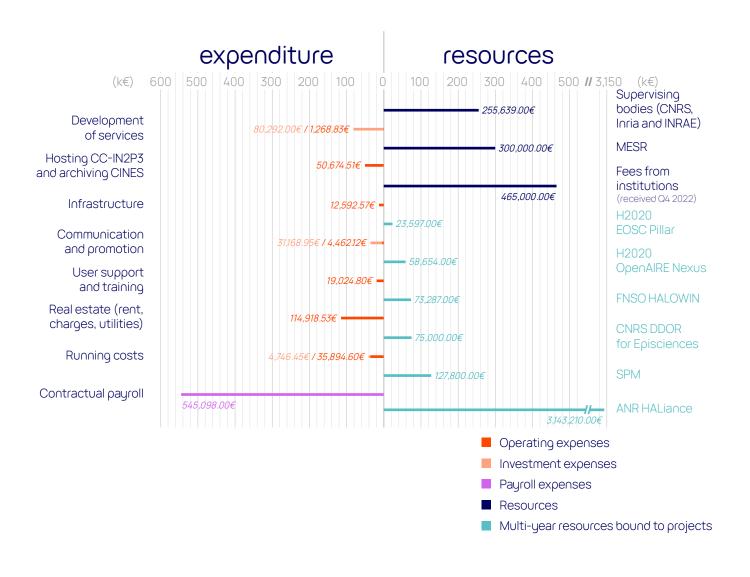
Émilie Cassagne, *Accompagner* les chercheurs de son établissement au dépôt dans HAL (training for trainers), URFIST

15 December 2022

Bénédicte Kuntziger, *Nouveaux* enjeux pour les plateformes d'archives ouvertes : l'exemple de HAL, archive ouverte nationale, IMST EISO Master's degree course, Université Claude Bernard – Lyon 1

Resources

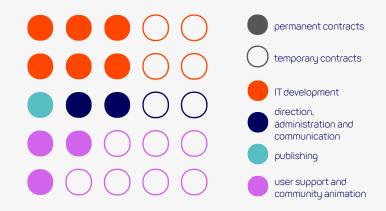
Budget data



Activity report – 2022 35

Human resources

The CCSD had 24.8 FTEs (full-time equivalents) on the payroll in 2022, working in IT development, network system administration, scientific and technical information, publishing and communication. During the year, 6 people were hired and 6 left the CCSD.



of documents

External authentification

Infrastructure

Reinforcement of the infrastructure

Implementation of HAProxy on ALOHA appliance (HALiance)

Change of the website entry switch and move to fibre optics (HALiance)

Messaging:

- Installation of a SMTP relay specific to the CCSD
- Implementation of DKIM, SPF and DMARK to combat HAL being treated as a spammer.

Creation of the SolR cluster for HAL(HALiance)

Installation of a MySQL cluster for future use(HALiance)

Installation of servers for the SSO project

31.6 To backed up at the IN2P3 Computing Centre

A fully available infrastructure

in 2022, and only 3 days of planned interruption

APACHE SERVERS
Hall front eard
APACHE SERVERS
Hall foot eard
APACHE SERVERS
Hall foot eard
APACHE SERVERS
Hall foot eard
APACHE SERVERS
APACHE

(cluster mode)

of documents

