An Integrated National Approach to Shaping the Future of Scholarly Communication

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French national open repository

Publishing platform for all disciplines

Toolkit for organizing scientific events

HAL open science

EPI sciences overlay journals

sciences CONF conference management

CCSD Centre pour la Communication Scientifique Directe
Public Policies in favor of Open Science in France

- **2016**
  - Law for a Digital Republic

- **July 2018**
  - 1st Open Science National Plan

- **Jan. 2019**
  - The ANR makes OA mandatory for publications resulting from projects it funds

- **April 2019**
  - Creation of the Committee for OS

- **Sept. 2019**
  - Support for RDA and Software Heritage

- **Nov. 2019**
  - Creation of the Committee for OS

- **March 2021**
  - New governance and funding model for HAL

- **July 2020**
  - The ANR adopts the Right Retention Strategy initiated by cOAlition S

- **July 2021**
  - 2nd Open Science National Plan

- **Nov. 2021**
  - Data, Algorithms, Source code policy

- **Sept. 2021**
  - UNESCO Recommendations on Open Sciences

- **March 2022**
  - Common policy of French funding agencies in favor of OS

- **April 2022**
  - Open Science European Conference (OSEC) in Paris

- **July 2022**
  - Launch of Recherche Data Gouv

- **CNRS** publishes its OS roadmap
**Political Declaration (2022)**

- Drawn up collectively
- Common good for the French research
- Portfolio of services and overlay services
- Instrument of scientific national sovereignty
- Part of an international ecosystem

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**Roadmap (2022-2027)**

- 3 strategic orientations
- Annual action plans
# Roadmap (2022-2027)

The work so far and to be done

<table>
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<tr>
<th>Anchoring HAL+ within the OS and Knowledge Ecosystem</th>
<th>Increasing the adoption of HAL, Episciences and Sciencesconf</th>
<th>Ensure the Sustainability of HAL+ as a Public and Responsible Infrastructure</th>
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<td>- Collaborations with national and international research institutions and OS initiatives</td>
<td>- Adding services and features to the 3 platforms</td>
<td>- A governance system that includes users representation</td>
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<td>- Compliance with FAIR principles</td>
<td>- Interoperability with IS</td>
<td>- An economic model to secure long-term funding</td>
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<td>- CTS certification</td>
<td>- New training programs and support services for users</td>
<td>- Optimization of data security</td>
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<td>- Improving the visibility of HAL, its projects and its partnerships</td>
<td>- Engagement programs for users</td>
<td>- Open-sourcing the HAL, Episciences, Sciencesconf codes</td>
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<td>- Increasing human resources</td>
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New services and functionalities

3 main directions for end-users and machines

- Supporting Alternative Methods of Publishing
- Linking Publications with Datasets and Software
- Optimizing Collection and Analysis of Scientific Outputs
Supporting Alternative Methods of Publishing
Prospective Services

Episciences as an alternative method of publishing

• Increasing the number of the open repositories and preprints servers hosting Episciences articles to serve all research communities
• Introducing of a comprehensive peer-review module allowing review of preprints, datasets and software
• Implementation of a single source publishing system that streamlines the management and distribution of scholarly content in multiple formats, including HTML, PDF, EPUB, and JATS
• Customizable workflows to accommodate diverse peer-review models
• Extension of the range of scientific publications by enabling the publication of conference proceedings (articulation with Sciencesconf)
Research Lifecycle

Linking Publications with Datasets and Software

Prospective Services

HAL as a hub that supports the full lifecycle of research

- **Links** between publications in HAL, associated data and software
- **Transfer of the relationships** established between publications in HAL to the respective data repositories, ensuring bidirectional linking (COAR Notify)
- **Automatic extraction** of links or references to datasets / to software from the full-text PDFs deposited in HAL
- **Feasibility study**: allowing researchers to directly **submit datasets** alongside their publications in HAL and enable the **automatic transfer** to the appropriate data repositories
Optimizing Collection and Analysis of Scientific Outputs
Prospective Services

HAL as a valuable source for research analysis and management

- Interactive **dashboards** that allow researchers, teams, and institutions to obtain customized lists and visualizations of their research outputs hosted in HAL
- **Comprehensive researcher CVs** bringing together all their scientific output, including publications, software and data sets
- **Provision of metadata and data** that AI tools - piloted by research institutions - could use as a source to produce advanced bibliometric analyses of French scientific output
Thanks!

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