



**HAL**  
open science

## Build added value on an open archive HAL-related applications

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**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

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## HAL

The HAL open archive is the common infrastructure, shared by the French academic community for the open access dissemination of the scientific production. It contains over half a million documents: articles, books, chapters, thesis, preprints, images, video, and, since 2018, source codes.

<https://hal.archives-ouvertes.fr>

## Vision

An open archive is not only a repository. It is a powerful tool for scholarly communication, close to both traditional and emerging practices. Researchers need fluid environments and workflows to help them with their various activities.

The HAL-related applications are provided to scientific communities in all fields. The need for organizing conferences and publishing proceedings is common; the platform for overlay journals is adaptable to all disciplines; and the exposure of the data allows, for example, the emergence of new trends in science, to generate body of research or to gather bibliometric data.

The ecosystem of the scholarly communication is evolving in many and various ways. The services of the CCSD are proposed in a non-profit perspective.

## Organize conversations: SciencesConf

SciencesConf is a webplatform for organizers of scientific conferences, workshop and meetings.

### Toolkit for the conference management

The platform facilitates the different stages of organising a conference, from receipt of submissions to automatic printing of documents, including reviewing and programming of themes.

It offers an array of customisable functions for conference organisers: hosting and customisation of website, tools for selecting contributions, tracking registrations, etc.

There is a specific space for participants to register and submit their contributions.

The new service SciencesCall launched in 2017 allows to manage calls for projects.

5 768 conferences

3 089 with submissions (abstract, papers), 45 000 papers

<https://sciencesconf.org>

## Publish in overlay journals: Episciences

The project's objective is to promote the emergence of open access journals, which publish articles deposited in the open archives HAL or arXiv.

### Traditional peer review process for open access preprints

The editorial committees of the epi-journals (epi=overlay) organize the evaluation and scientific discussion via the platform of the preprints that are submitted or selected.

Preprints that are selected in this way by the editorial committee of an epi-journal thus become peer-reviewed articles with full scientific recognition in the HAL or arXiv repositories.

The platform can also be used to promote the creation of new titles as well as hosting existing titles which migrate towards the platform.

11 overlay journals and 2 forthcoming in 2018

2 884 published articles

<https://episciences.org>

## Enhance discoverability: data.archives-ouvertes

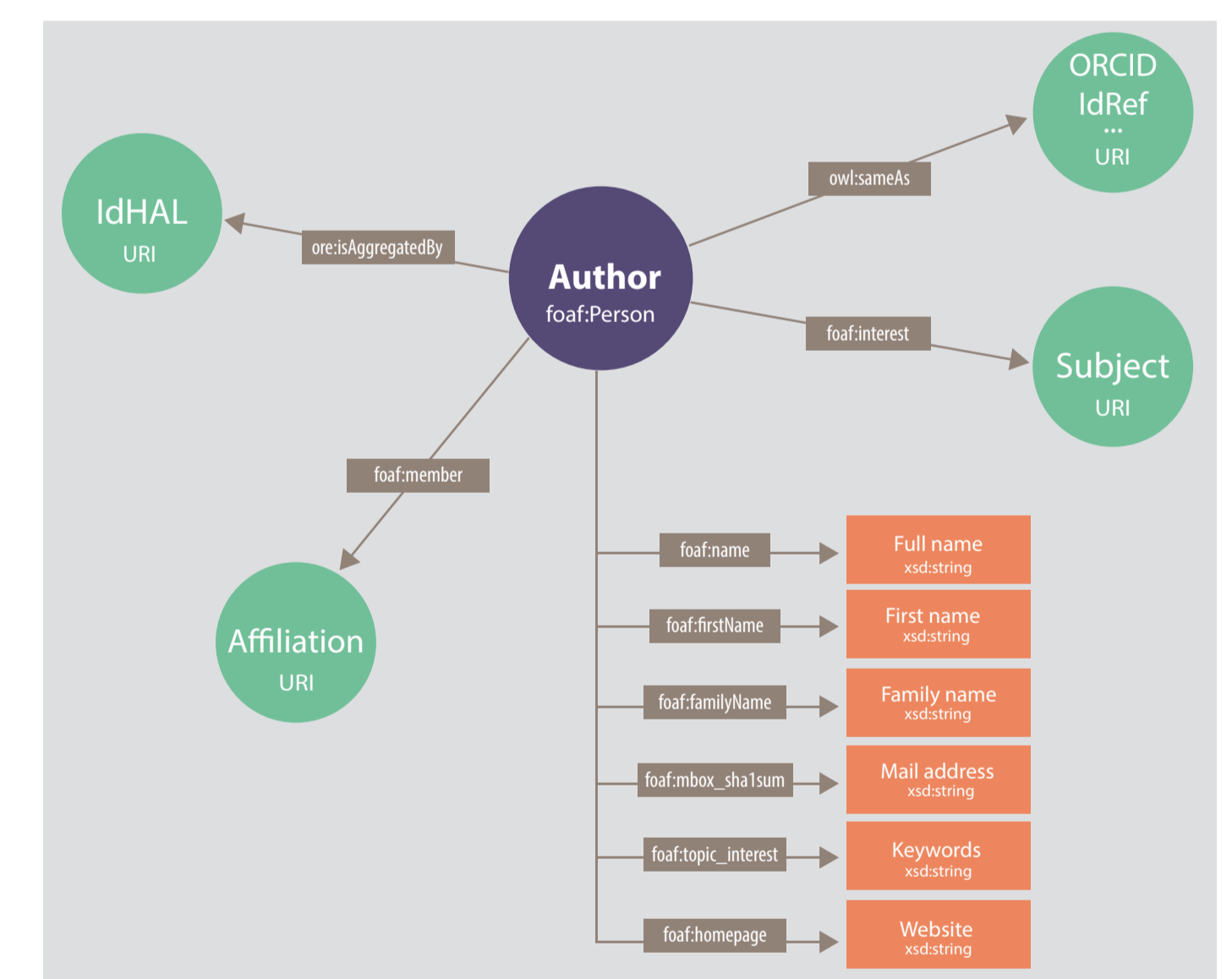
The data.archives-ouvertes portal was launched in 2017: it provides access to the database containing structured data in RDF format. This database, also called Triplestore, contains all the metadata of the open archive HAL.

### HAL metadata in RDF format

The RDF, for Resource Description Framework, is the basic language for semantic web. It proposes a graph model to formally describe web resources and their metadata, in order to allow automatic processing of these descriptions.

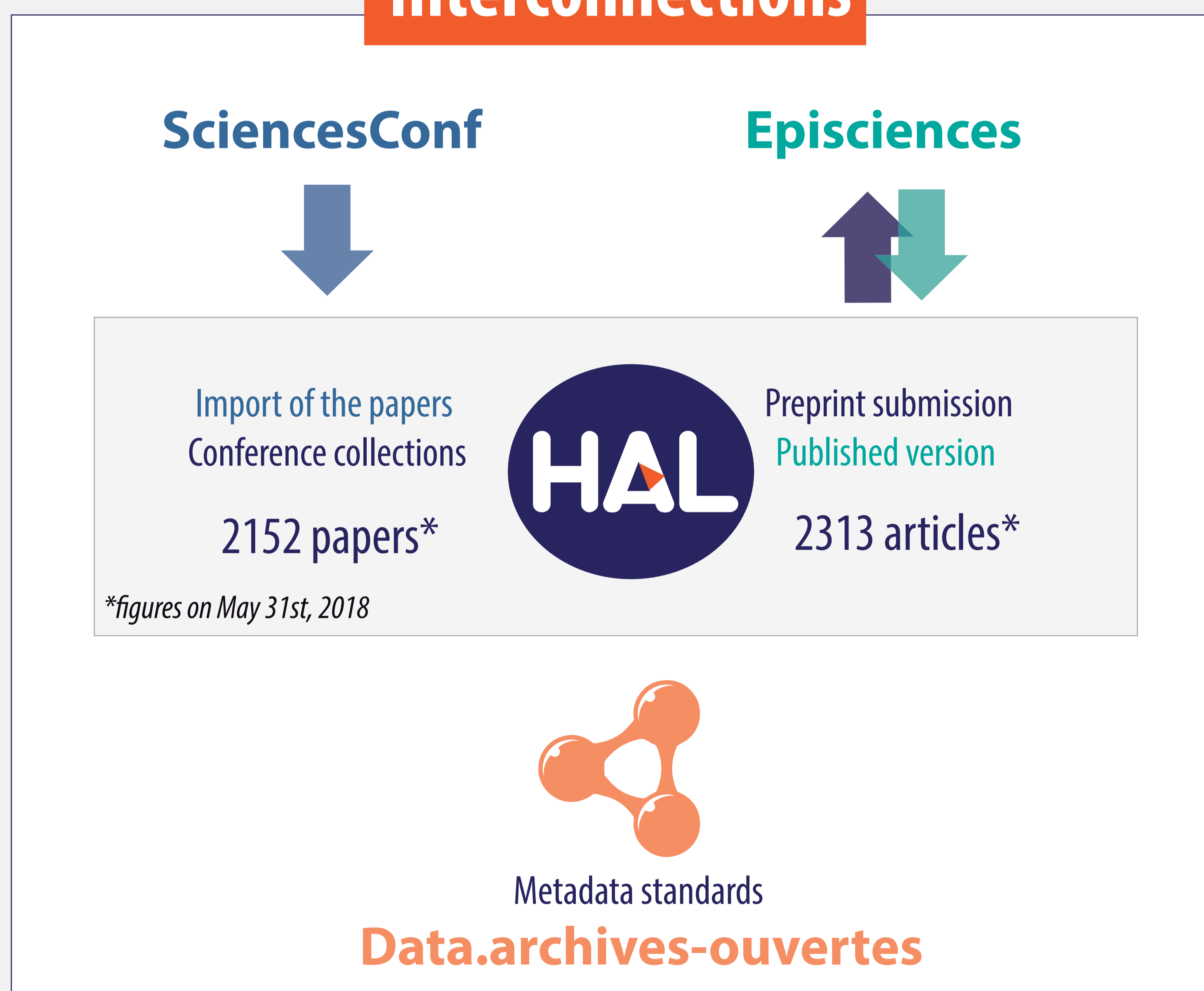
A document structured in RDF is a set of triplets. The ontologies and vocabularies are the followings: FaBiO, Bibo, Dublin Core, FOAF and SKOS.

<https://data.archives-ouvertes.fr>



Example of structured metadata for authors

## Interconnections



## Perspectives

Our objectives are to add new other overlay services to enhance discoverability (recommendations) and to fit in the emerging practices (open peer commentary and open peer reviewing).