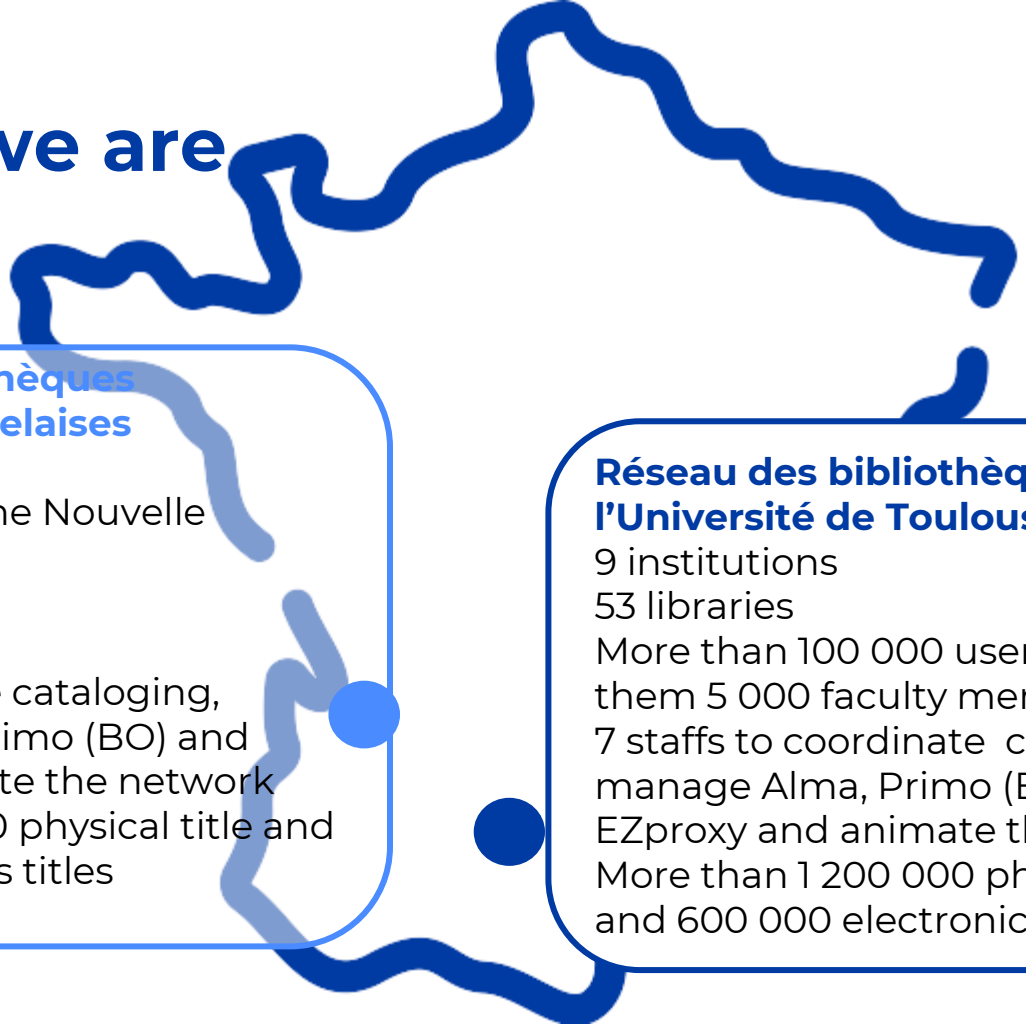
# Synchronizing a national union catalog with Alma CZ

Introducing automatic creation of electronic inventories within SUDOC

# Who we are



**Réseau des bibliothèques universitaires bordelaises**

5 institutions
56 libraries across the Nouvelle Aquitaine region
Students : 76,000
Faculty : 4,000
5 staff to coordinate cataloging, administer Alma, Primo (BO) and Leganto and animate the network
More than 1,070,000 physical title and 1,226,000 electronics titles

**Réseau des bibliothèques de l'Université de Toulouse**

9 institutions
53 libraries
More than 100 000 users, among them 5 000 faculty members
7 staffs to coordinate  cataloging, manage Alma, Primo (BO), Leganto, EZproxy and animate the network
More than 1 200 000 physical titles and 600 000 electronic titles

# 01

# Background

French landscape for cataloging and Alma administration

# ACEF : the French-speaking community for Ex Libris customers

## 66 members

Universities and scientific institutions in Belgium, France, Luxemburg and Belgium

## A place for sharing and mutual support

A mailing list
An annual general meeting
Member-led training and webinars

## A forum for dialogue with Exlibris and the French Cataloguing Agency

# ABES : The french cataloguing agency

ABES provides  higher education and research institutions with :

- A **range of tools and services dedicated to the cataloguing** and administration of information resources available in their libraries :
  - A shared Catalog (Sudoc)
  - Authority data and repositories (IDref)
  - A knowledge Base (Bacon)

- **Legal and financial** resources for pooling the resources of academic institutions :
  - Acquisition of electronic documentation (ISTEX project)
  - Framework agreement for LMS equipment (SGBM project)
- Support for the **cataloguers' network** (training, information sharing, general meeting)

# The SUDOC, the national catalog

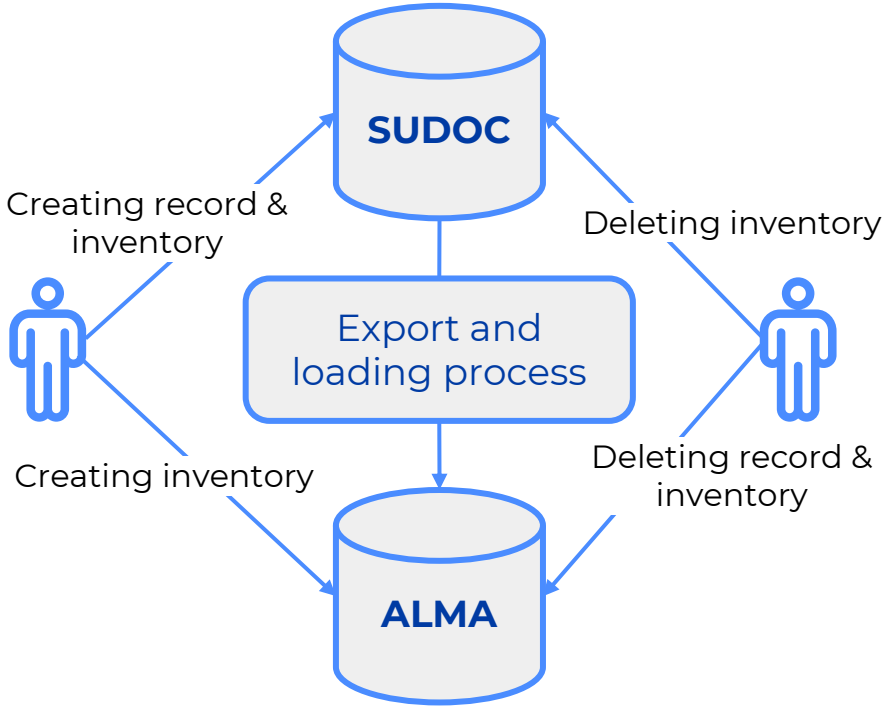
Sudoc - **Système Universitaire de Documentation** - is the national system for shared cataloguing of documentary resources available to all university and research libraries.

**Nearly 15 million bibliographic records** in this catalogue describing **all kinds of document**

**159 institutions** (some 1,500 academic or research libraries) catalog their documents in SUDOC

**Centralised System :** records are produced in the central database

**Unimarc cataloguing**



# 02
# Project

# Project Goals

01

## Metadata Quality

Control the metadata used for catalog, URL resolution and title management

```
LDR -----nam-a22-----z--4500
001  9956800000000307591
008  230523u2023uuuuuuuuu-|-o----u|----|eng-d
035__ |a (CKB)5680000000307591
24510 |a Éthique, numérique et idéologies
260__ |b Presses des Mines-Transvalor
776__ |z 2-494532-94-9
906__ |a BOOK
```

02

## Optimizing Workflow

Simplify electronic documentation reporting and synchronization with local systems

03

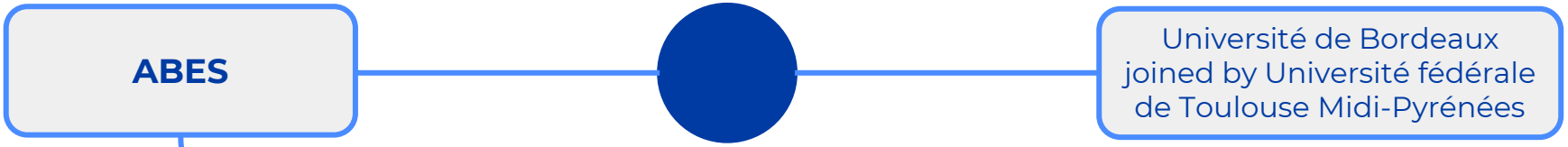
## Improve integration of the SUDOC with our ILS

Take the first step towards automating the creation of physical inventories in the SUDOC.

# Project team and organization

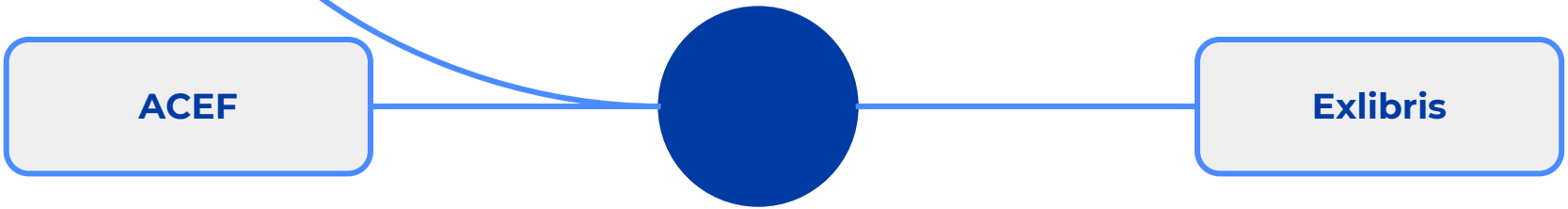
The project started in **December 2020.** The first wave of production started in **2022.**

**Monthly meetings**



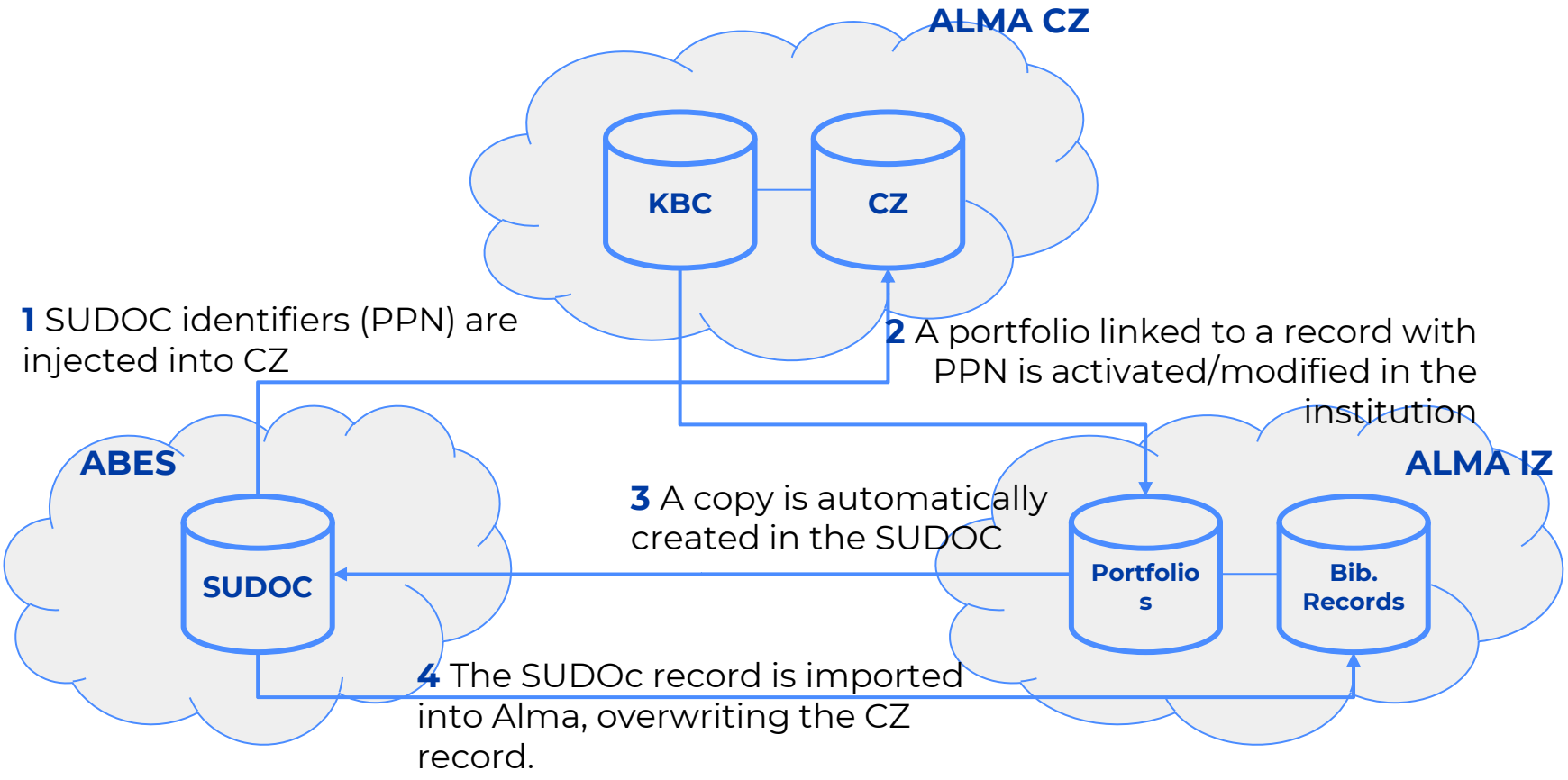

Design and implementation of the synchronization circuit.
Test and adjustment.
Documentation and support for other libraries.

**Monthly technical meetings and Quarterly policy meetings**




Community zone enrichment
Synchronization of the notional knowledge base (B@con) with the Alma knowledge base and in SFX
Unimarc support in Alma and Primo VE
Other issues relating to contract negotiations with Exlibris

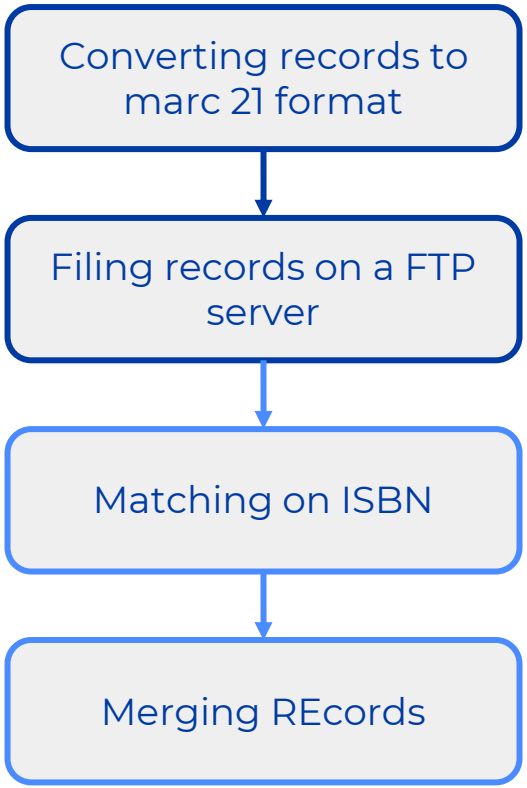
# Workflow (big picture)



# Monthly Sudoc identifiers injection

Exporting process

Loading process




**410,000 e-books** (we are currently testing PPN injection for serial publications) records are exported from the SUDOC every month.
They are converted from PICA to **marc21** format.

**Only the PPN** is added to the record in field 035$a. Exlibris does not wish to retain any other information.
**388,970 records** with PPN in the CZ

# Daily publication of portfolios to the SUDOC :

**A logical Set :**
Allows each institution to define the scope of collections to be synchronized with the SUDOC

**A publication profile:**
Publishes member portfolios in the result set each time they are created/modified/deleted.

**Normalization rules :**
In particular, they can be used to convert the campus or electronic library code into a SUDOC identifier for the library.

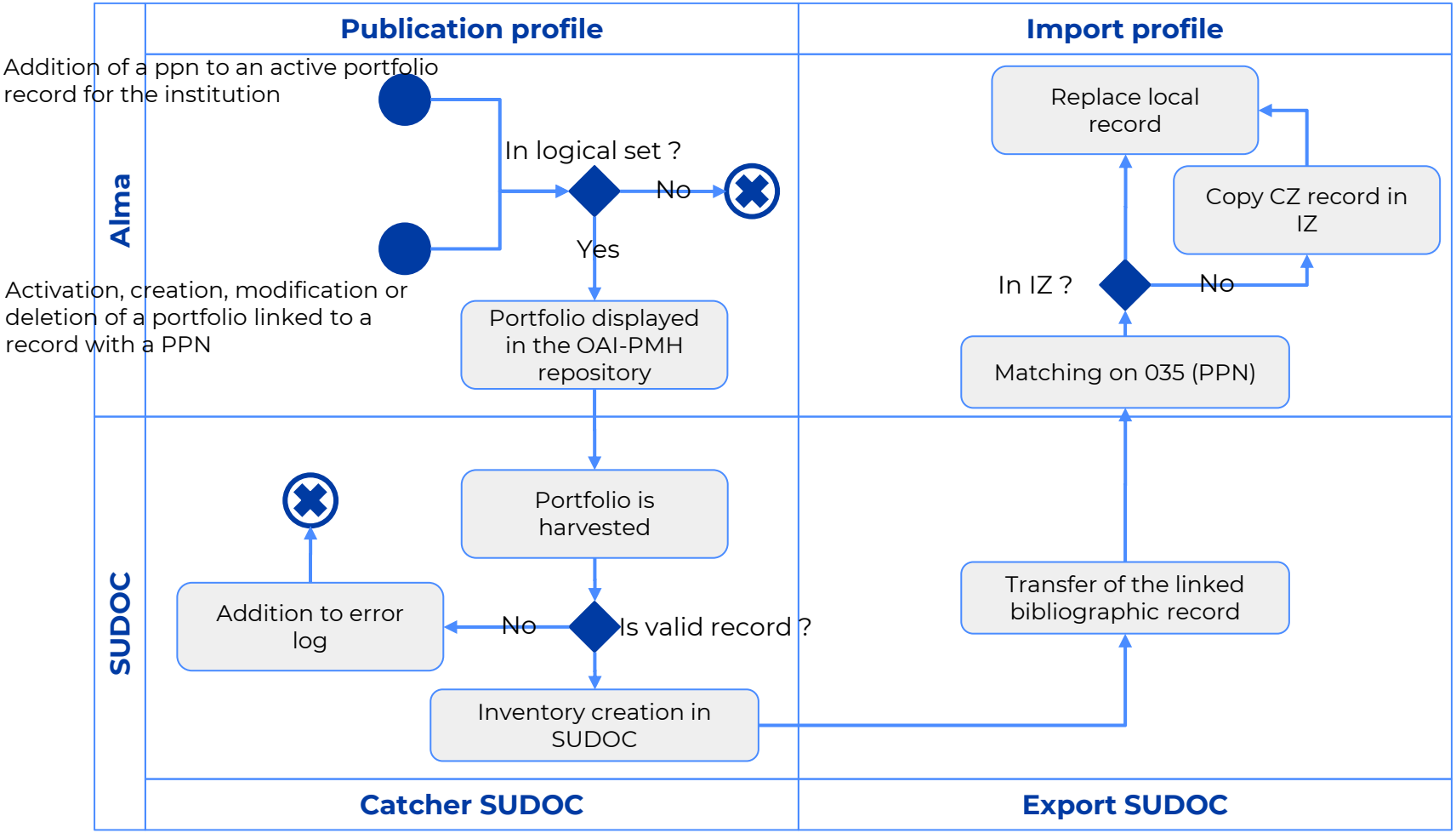
**An integration profile:**
Defines an OAI-PMH repository that expose the portfolios

# Daily import of SUDOC record

**Transferring records :**
Every day, the SUDOC transfers to each institution in the network all the records **created or modified** during the day for which the institution is located.

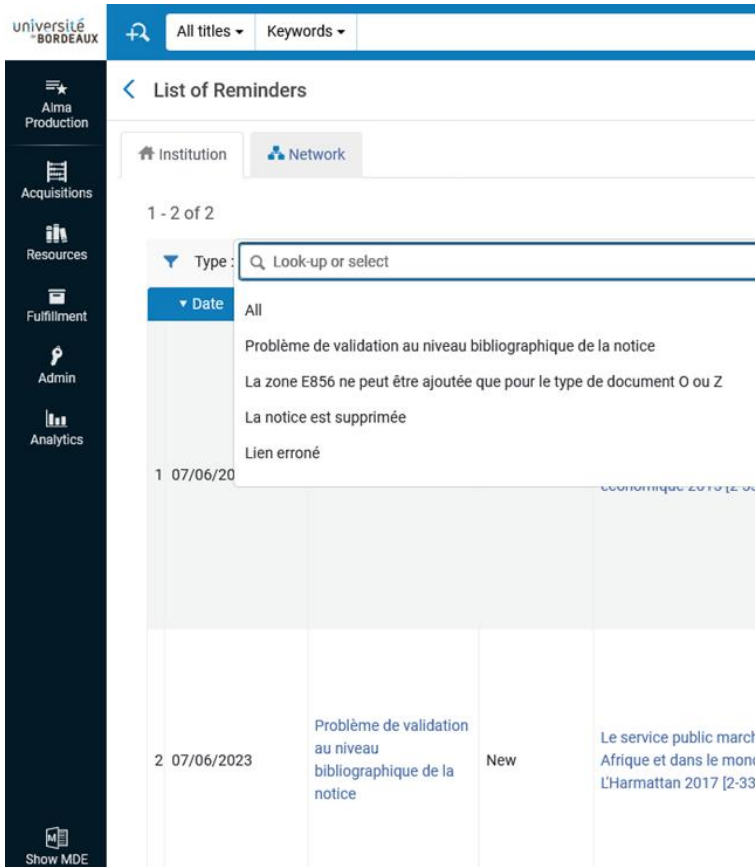
**Import profile:**
In the event of correspondence, copy the Community zone record to the institution/network zone.

**Normalization & merge rules :**
Overwrites the CZ record with the exception of fields 035, abstracts and tables of contents.


Publication profile
Import profile
Alma
SUDOC
Addition of a ppn to an active portfolio record for the institution
Activation, creation, modification or deletion of a portfolio linked to a record with a PPN
In logical set ?
No
Yes
Portfolio displayed in the OAI-PMH repository
Portfolio is harvested
Addition to error log
No
Is valid record ?
Inventory creation in SUDOC
Replace local record
Copy CZ record in IZ
In IZ ?
No
Matching on 035 (PPN)
Transfer of the linked bibliographic record
Catcher SUDOC
Export SUDOC

# Error handling

- If there is an anomaly in the record for which you wish to create the inventory, SUDOC (CBS) **blocks** the creation. This occurs when :
  - the record under which the program is attempting to create an inventory **does not meet the SUDOC quality criteria**
  - an attempt is made to create an electronic inventory under a **physical document record**.
- The program generates an error message. This is transferred to the administrator with the processing report.
- All errors for the past month are accessible via **API**. This API access has enabled some establishments to report errors in Alma, creating a **reminder** for each record in question.

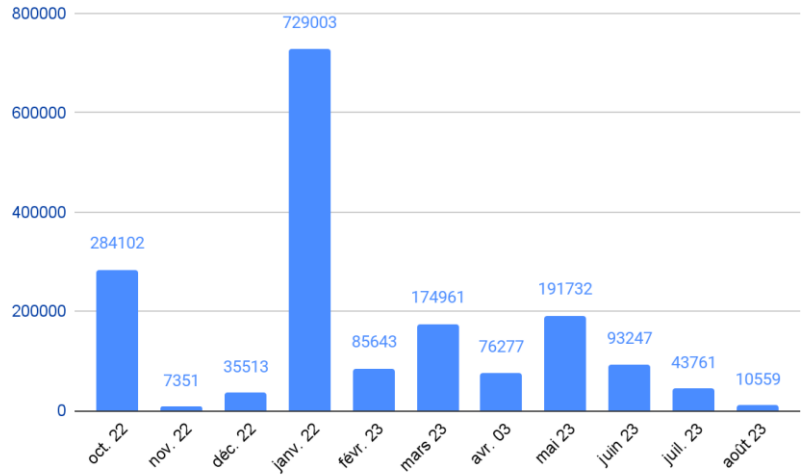


# 03 Review and outlook

# Review

**1,732,415**
**Copies created in the SUDOC since 2022, Oct**

**15 sites in production**




**An easy-to-implement circuit in Alma**

**Efficient production start-up**

**No major problems reported**

**Problems injecting identifiers into the CZ**

# Outlook

- **Extend the workflow to the e-serials** : an test is in process to add the PPN identifier in e-serial records of Community Zone, based on the ISSN number.
- **Adapt the workflow to the physical resources** : our association advocates that this project should be considered as a proof of concept and thinks that this workflow can be duplicated for other systems (and even more easily than for electronic resources, since the CZ plays no role in it). L'Abes is more prudent, in particular because it believes that its infrastructure may not be able to support such a load
- **Use Sudoc metadata to enhance CZ records** : nowadays, we only add the PPN identifiers to CZ records, but we could add other fields of Sudoc records and more generally replace CZ records by Sudoc records for a part or the totality of French-speaking resources. L'Abes is a cataloging agency, dedicated to providing quality records. Its records are fuller than the records of the commercial providers. This idea interests our colleague from Belgium or Switzerland and we hope that this approach (using the records of cataloging agencies rather than those of commercial providers) may interest other communities.

# Thanks

Do you have any questions?

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