ABES's experience and strategy in regard of next generation library systems

Jean Bernon
Shared ILS project manager

European consortia
and the next generation library systems
Freie Universität Berlin
11th September 2013

ABES

- ABES is the Bibliographic Agency for French HE and Research.

- ABES is located in Montpellier and employing over 70 staff

- The team comprises mainly library specialists and IT professionals.

- ABES'S current missions
  - Shared cataloging and union catalogs
  - Normalization
  - National registration of digital dissertations
  - Bibliographic support of academic institutions
  - Shared orders of current electronic resources
  - National licensing of electronic resources
  - National applications for academic Library

Shared cataloging and union catalogs

- This mission involves directly 157 academic institutions and 1450 academic libraries (SUDOC network)

- This mission involves indirectly, through 32 of the previous academic institutions, 2000 public or private libraries for printed serials (SUDOC-PS network) http://www.sudoc.abes.fr

- Two smaller catalogs are dedicated to special collections, the main one to manuscripts and archive, the second one to digitized collections http://www.calames.abes.fr

abes
agence bibliographique de l'enseignement supérieur

Normalization

- ABES has always been playing a current normalization role in the SUDOC networks and has always been participating to national and international normalization groups with BnF (National Library)
http://documentation.abes.fr/sudoc/

- Since 2010 the HE ministry officially entrusted ABES with this mission

- ABES is collaborating with BnF in a national workgroup "RDA en France" and a "Comité stratégique bibliographique". These are the main strategic activities.
http://rda-en-france.enssib.fr/

- ABES and BnF are EURIG members

National registration of digital dissertations

- SUDOC catalog has always been the national catalog for academic dissertations

- Since 2007 the mission has been widened to national registration of digital dissertations

- Two specific applications were developed
  - STEP for dissertations in progress
  - STAR for validated dissertations

- A third specific application was developed for searching digital and printed dissertations (theses.fr)

- theses.fr is an FRBR application against the SUDOC catalog

- http://theses.fr

Bibliographic support of academic institutions

- Support of the national cataloging guide for SUDOC (see normalization)

- Daily deliveries of bibliographic and authorities records to over 150 local ILS

- Record extractions either on demand or as DIY

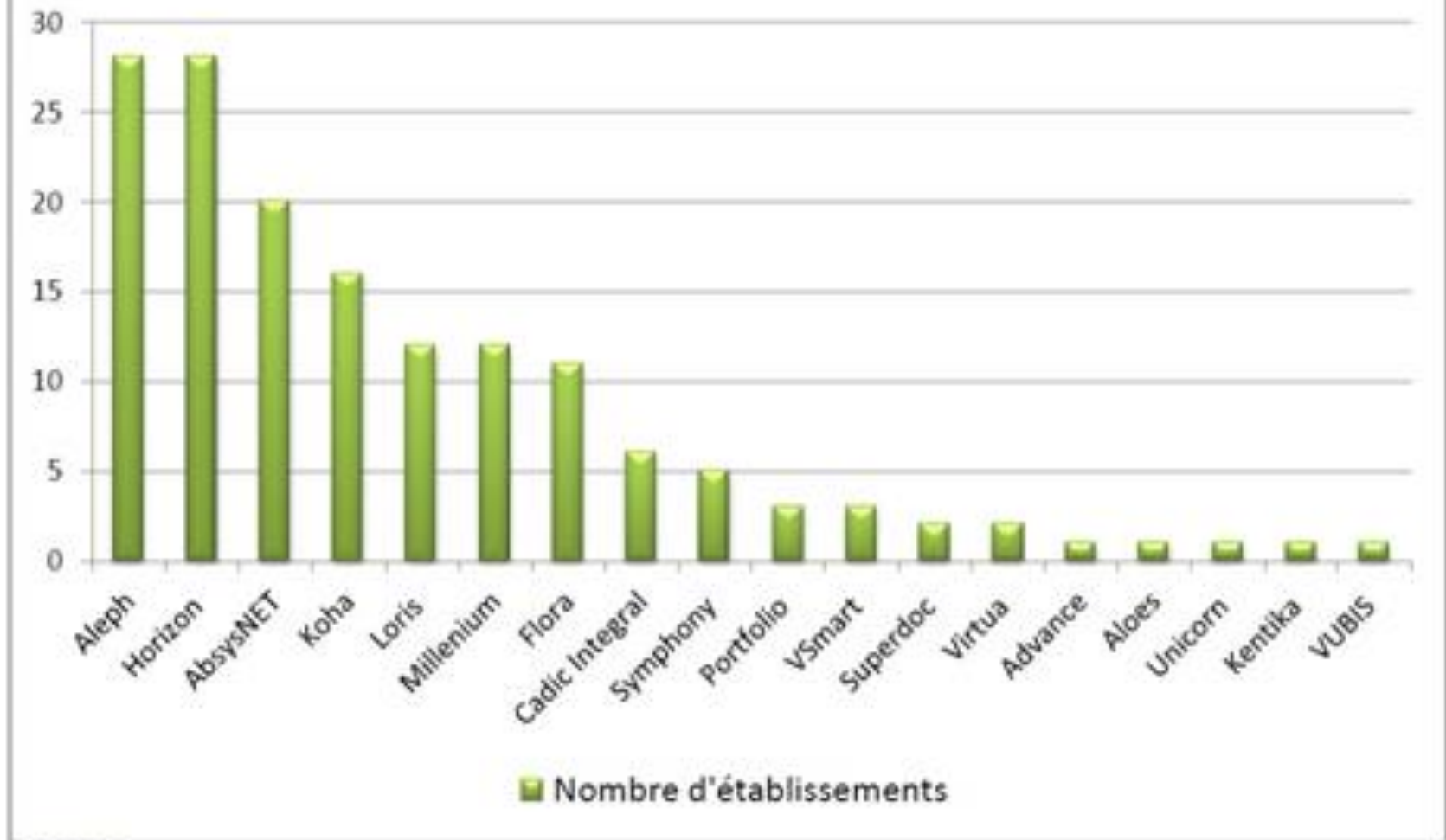SELF Sudoc
Service En Ligne de Fichiers Sudoc

Exports à la demande
Formulaire de Commande en Ligne

- Automatic location of different materials, mainly printed monographs and e-books.

Exemplarisations automatiques
Formulaire de Commande en Ligne

- The institutions are asking ABES more services, especially for electronic resources management

- The next generation ILS project partly originated from these questions

abes
agence bibliographique de l'enseignement supérieur

Le réseau Sudoc: 18 SIGB, 153 systèmes

Shared orders of current electronic resources

- Since 2004 ABES has been working with French consortium Couperin

- Couperin is a collaborative network which negotiates for its 200 members licensing agreements with ER vendors http://www.couperin.org

- Couperin manages only negotiations, not orders

- ABES coordinates 10 group orders for major resources
  - Elsevier science direct, 122 institutions
  - Cairn, 90 institutions
  - JSTOR, 90 institutions
  - Dalloz, 70 institutions
  - …

National licensing of electronic resources

- This new mission is linked to the creation of a national board called BSN (Digital scientific library). See further "ABES's management plan 2012-2015"

- Since 2010 the BSN has entrusted ABES with the task of national licenses acquisition in collaboration with Couperin and INIST-CNRS (Institute for Scientific and Technical Information of the National Research Center)

- The first resources licensed are the acquisition of digitized corpuses (EEBO, ECCO, Garnier dictionaries), electronic archive of serials and e-books (Springer) http://licencesnationales.fr

  licences nationales .FR

- Besides ABES is involved with INIST-CNRS and CPU (university presidents board) in the ISTEX project. The purpose is the implementation of a national hosting platform with value-added services for research and it includes ER acquisitions. http://www.istex.fr
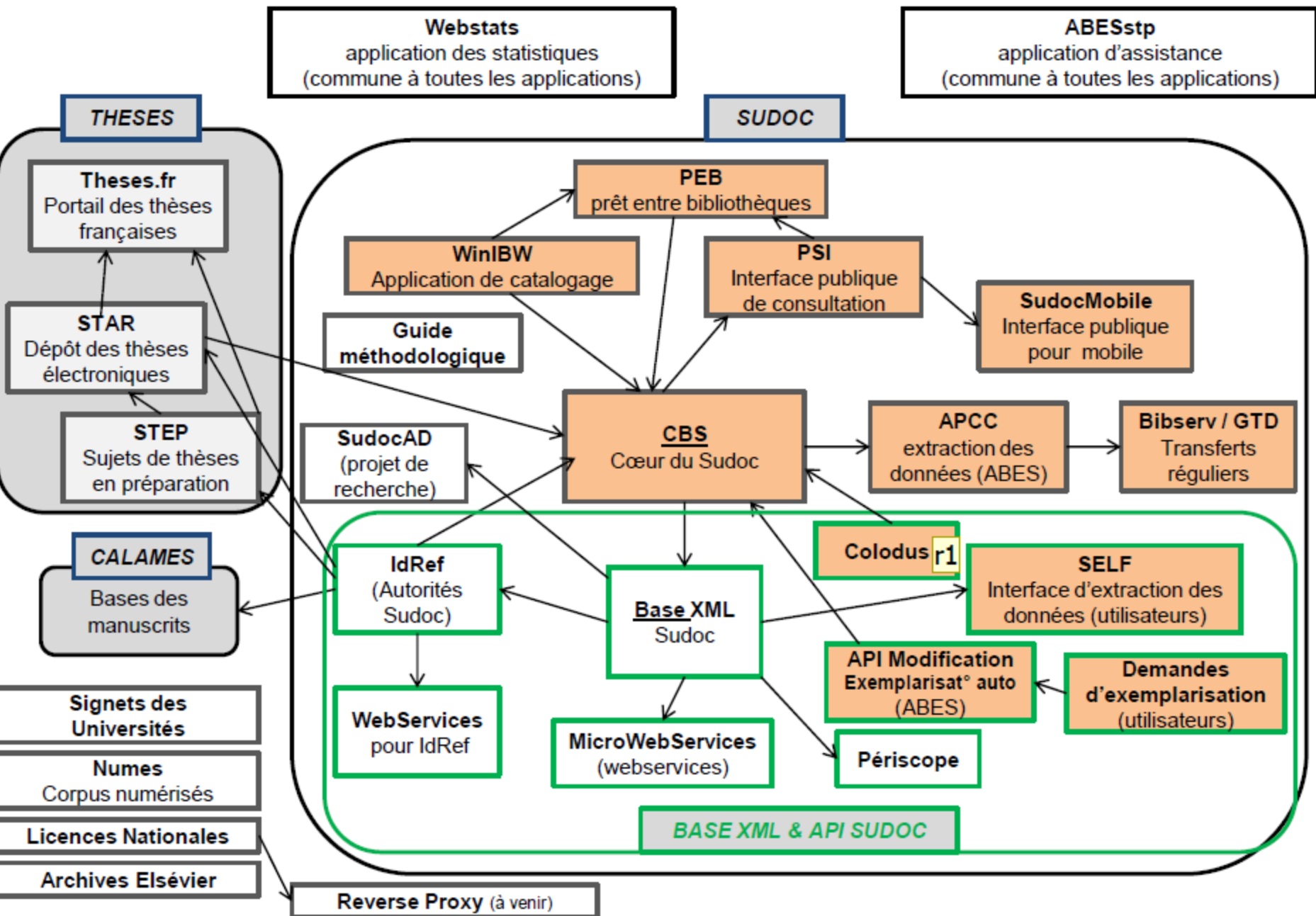
  ISTEX
  L'excellence documentaire pour tous

- In ISTEX project, ABES is negotiating and buying the content, and focused on referencing and metadata enrichment, while INIST is in charge of the full text processing

National applications for academic libraries

- The IT team manages the SUDOC applications driven by an OCLC software called CBS

- The IT team also developed several applications
  - the ones completely new : manuscripts catalog, authorities web server, digital dissertations national registration, dissertations search
  - the others adding SUDOC functionalities : automatic extraction of metadata for local purpose, automatic update of holdings, graphic check of serial collections, web cataloging of holdings

- Two new applications are planned
  - a metadata hub - This application uses semantic web technology in order to improve metadata corpuses from any source or format and to widely deliver the result under any format. A prototype was successfully run with 5 different corpuses. Originated from the ISTEX project, the hub purpose is wider.
  - a national knowledge base and link resolver - ABES is in contact with KB+ and GOKb teams. There is a current discussion with institutions delegates in order to precisely define the purpose and a prototype should be run before the end of the year.
  - These two new applications are linked to the next gen ILS project.

abes ●
agence bibliographique de l'enseignement supérieur

Cartographie des applications du SI métier de l'ABES

Webstats
application des statistiques
(commune à toutes les applications)

ABESstp
application d'assistance
(commune à toutes les applications)

THESES

SUDOC

Theses.fr
Portail des thèses
françaises

PEB
prêt entre bibliothèques

WinIBW
Application de catalogage

PSI
Interface publique
de consultation

SudocMobile
Interface publique
pour mobile

STAR
Dépôt des thèses
électroniques

**Guide
méthodologique**

STEP
Sujets de thèses
en préparation

SudocAD
(projet de
recherche)

CBS
Cœur du Sudoc

APCC
extraction des
données (ABES)

Bibserv / GTD
Transferts
réguliers

CALAMES

Bases des
manuscrits

IdRef
(Autorités
Sudoc)

Colodus r1

SELF
Interface d'extraction des
données (utilisateurs)

Base XML
Sudoc

**API Modification
Exemplarisat° auto
(ABES)**

**Demandes
d'exemplarisation**
(utilisateurs)

WebServices
pour IdRef

MicroWebServices
(webservices)

Périscope

**Signets des
Universités**

Numes
Corpus numérisés

Licences Nationales

Archives Elsévier

BASE XML & API SUDOC

Reverse Proxy (à venir)

ABES's strategy
the management plan 2012-2015

- Changing the governance

- Referencing of electronic resources

- Electronic resources acquisition

- **Proposal of a shared ILS solution**

- Referencing of patrimonial collections with a focus on images and digitized collections.

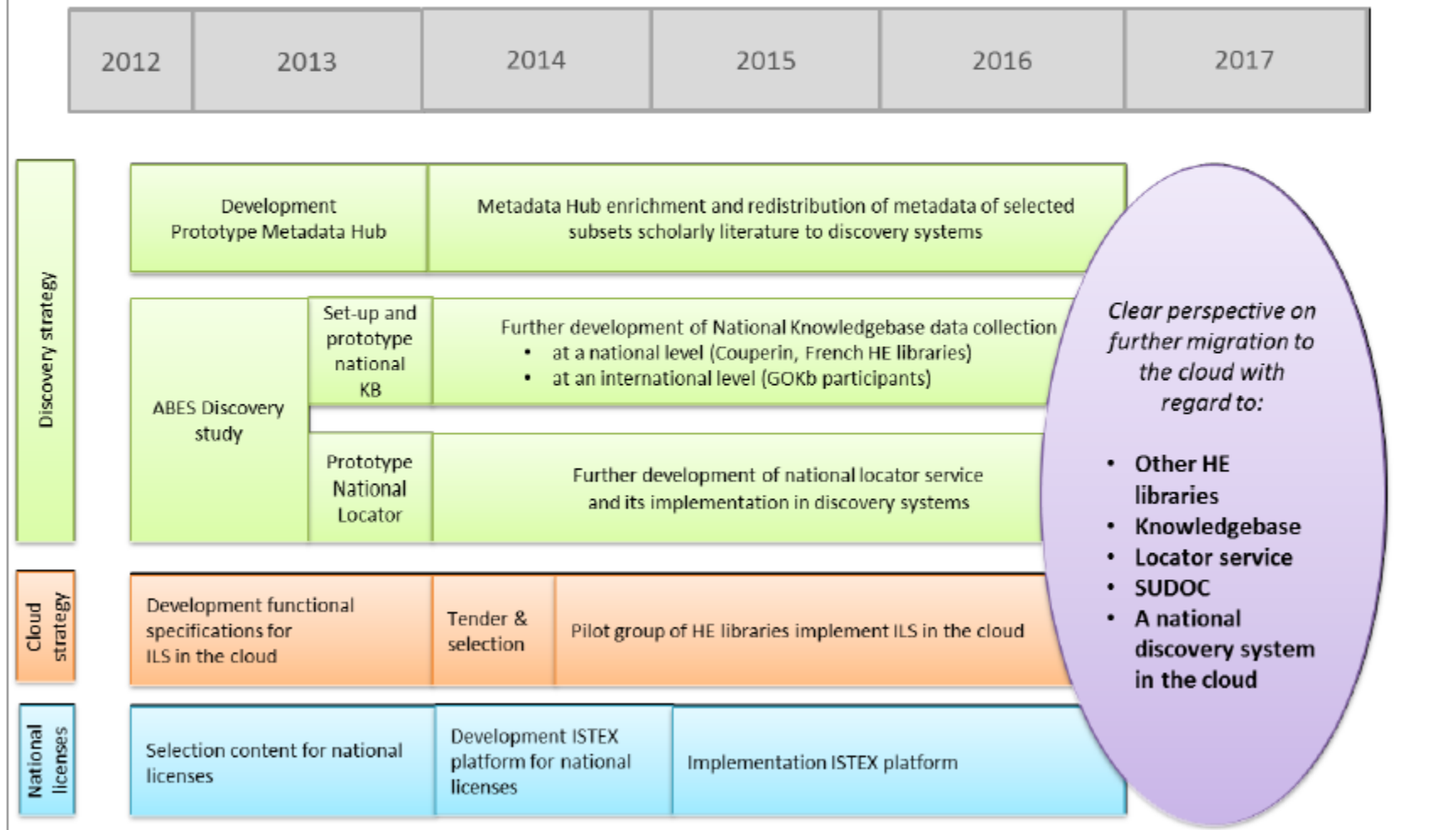- Referencing of printed serials with a focus on shared conservation plans

Changing the governance

- For years ABES has been depending on the HE ministry

- ABES is now more autonomous and should mainly collaborate with different national institutions : HE ministry, Research national center (CNRS), National Library (BnF, Culture ministry)

- The change in governance is linked to a new law in 2007 for universities autonomy and the creation in 2009 of a national steering board called BSN (digital scientific library) coordinating different national operators for common projects
http://www.bibliothequescientifiquenumerique.fr/

Referencing electronic resources

- The goals are
  - Providing the final users with an article level access
  - Providing the professional users with a national cartography of licensing

- A study was done whose the two main conclusions are
  - That the discovery tools should remain at local level (maybe through the shared ILS project)
  - That at national level the implementation of a knowledge base (KB+LR) is less expensive and more useful than a DT

- The study points out the links between the KB+LR project, the hub metadata project and the shared ILS project

Cohesive development of components of national library infrastructure

2012	2013	2014	2015	2016	2017

Discovery strategy

Development Prototype Metadata Hub

Metadata Hub enrichment and redistribution of metadata of selected subsets scholarly literature to discovery systems

ABES Discovery study

Set-up and prototype national KB

Further development of National Knowledgebase data collection
- at a national level (Couperin, French HE libraries)
- at an international level (GOKb participants)

Prototype National Locator

Further development of national locator service and its implementation in discovery systems

Cloud strategy

Development functional specifications for ILS in the cloud

Tender & selection

Pilot group of HE libraries implement ILS in the cloud

National licenses

Selection content for national licenses

Development ISTEX platform for national licenses

Implementation ISTEX platform

Clear perspective on further migration to the cloud with regard to:

- **Other HE libraries**
- **Knowledgebase**
- **Locator service**
- **SUDOC**
- **A national discovery system in the cloud**

abes
agence bibliographique de l'enseignement supérieur

The shared ILS project

- The shared ILS project has been discussed since 2011

- The first idea was to save money by implementing an heritage ILS downloading bibliographic and authority records from SUDOC in the current way

- The ER management and discovery issues quickly oriented the project towards next generation offers

- **The next gen offers raised a new question : should we move to a new library platform not only the local systems but also the whole SUDOC catalog (production and consultation)**

- A project manager was appointed in April 2012 and worked with a steering committee and a technical committee made of academic institutions delegates.

The impact study

- In April 2013 the ABES and committees work resulted in an "impact study"

- For institutions the study pointed out that
  - the new system could bring a big improvement of local systems
  - but it would be a big change for the local teams
  - there is a risk of vendor lock-in with a "all in one" system including data

- For ABES the study pointed out that
  - the SUDOC catalog is complex with different data levels and many workflows with other applications
  - it uses national cataloging rules, specific holdings fields and Unimarc links. Moving to international RDA rules would bring no improvement
  - the IT team manages and develops applications on its own platform and moving to a proprietary cloud platform is a big challenge

- **Therefore the study recommended to keep a mirroring database of the national data updated in the cloud system, in order to guarantee their control and the national workflows with other applications and partners**
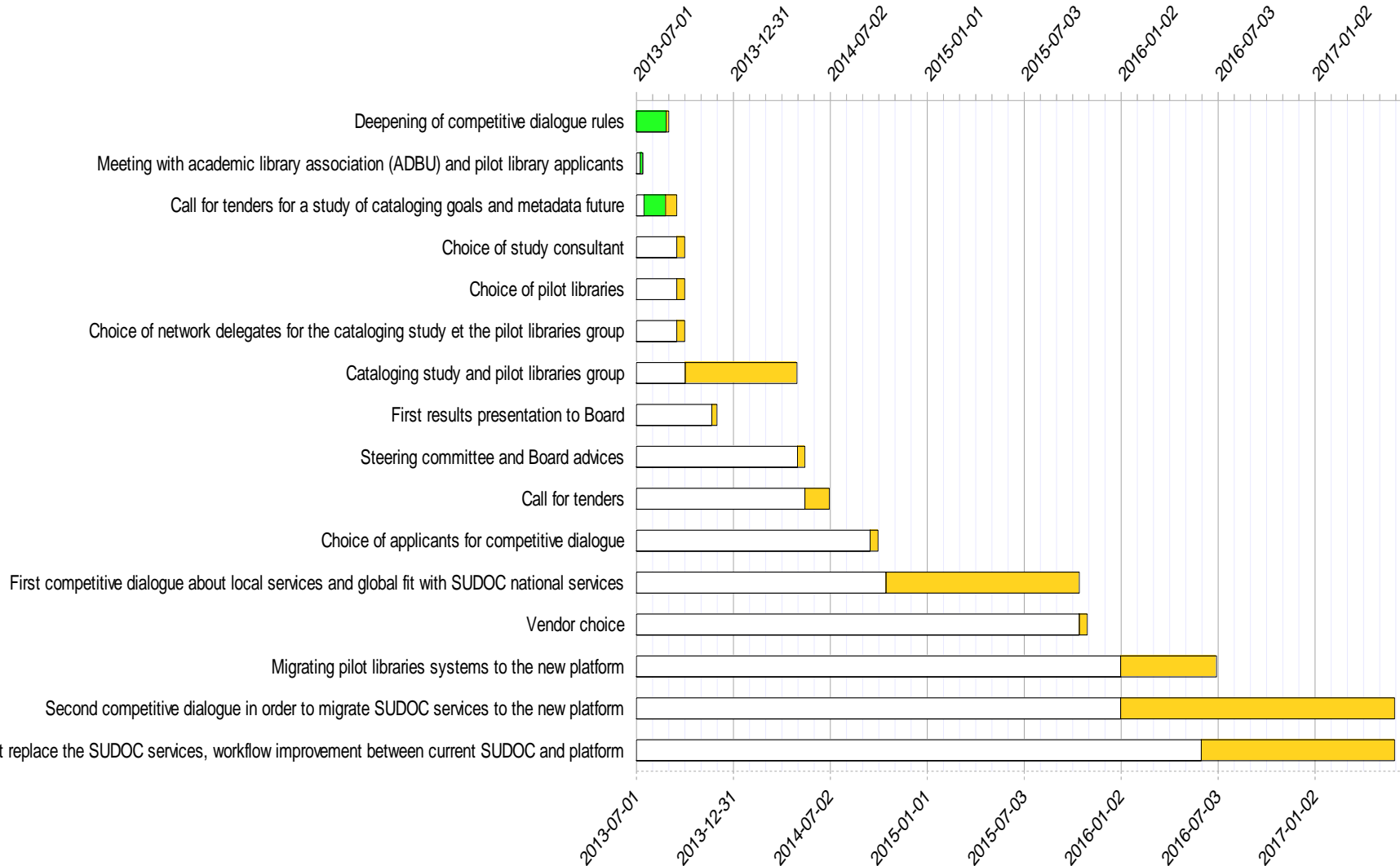
The three scenarios

- The impact study submitted three scenarios for moving local and national applications to an international library platform. Every scenario includes a first pilot step with some volunteer institutions

- The first scenario involves that after the first pilot step the SUDOC is immediately transferred to the same platform

- The second scenario is a "if" one
  - moving the local systems of pilot institutions to the same platform
  - checking that this platform is able to manage SUDOC shared cataloging and union catalog
  - if so, moving the SUDOC to the same platform
  - else keeping SUDOC as a national application to be separately changed

- The third scenario involves
  - keeping and developing national services (shared cataloging, union catalog, KB/LR) separated from any platform
  - every institution is free to choose its own platform
  - ABES supports institutions for moving their local system to the chosen platform and develops APIs in order to get the best workflow between the platforms and the national services

The scenario choice and conclusion

- **In May 2013, the SUDOC network thoroughly discussed the scenarios and the ABES board chose the second scenario**

- The ABES scientific board and some institutions claimed for a clear separation between local systems in the cloud and national services (scenario 3)

- Most of the institutions interested in local cloud services claimed for a strong ABES's support and thought that scenario 1-2 guaranteed it

- Regardless of the result of scenario 2, either both national and local services on the same platform or not, it looks like using a library platform doesn't necessarily involve a lower consortium need

- **The institutions are expecting consortium support at least for :**
  - **Integrating platform services to local system : financial and authentication systems, institution web site and intranet, circulation devices, stack and seat control**
  - **Migrating library data to the cloud, controlling library data in the cloud, improving publisher metadata, helping to French data integration (law publishers, national licenses)**
  - **Controlling costs**

abes
agence bibliographique de l'enseignement supérieur

Timetable of Shared ILS project - June 2013

- More details on Shared ILS project
  http://sgbm.abes.fr
  http://delicious.com/sgbm

- Image credits
  ABES applications   Stéphane Rey
  Components of national infrastructure   Maurits Van Der Graaf

- Thanks to Carole Melzac and Philippe Le Pape for their help