

7th. Kuopio Conference 2022

EPICo, the European Print Initiatives Collaboration

07th-09th Septembre 2022 –

Vienna University Library

Vienna, Austria

The French national Library will soon extend to Amiens

Bibliothèque nationale de France

Project Amiens (PAM)

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Administrative, architectural and functional manager

Presentation outline

Three parts in this presentation, following a chronological order:

- 1. The origins of the projects**
- 2. Where do we stand**
- 3. The next steps to go through / timeline**

Part 1 : The origine of the project

High increase :

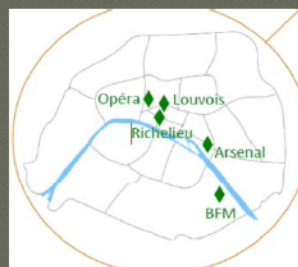
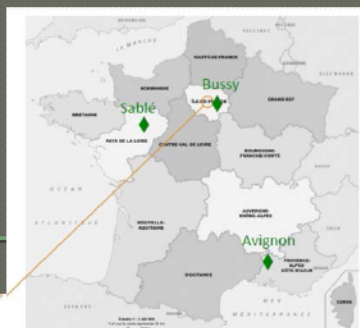
- 4,2 kml annual
- This is due to Legal deposit
 - Established in 1537 by François 1er
 - Since 2006 : websites and dematerialized documents: software, databases
 - Approximately 300 000 documents / year
 - ≃145 000 books
 - ≃190 000 press



Storage Saturation :

BFM One tower level =
more or less : 6 kml // 3 ,72
miles

Today : 480 kml



Current locations : 12 sites

- Bibliothèque François-Mitterrand
- Quadrilatère Richelieu
- Centre technique de Bussy Saint Georges
- Bibliothèque de l'Arsenal
- 12 rue Colbert
- 8 rue Colbert
- 2 rue Louvois
- Château Sablé-sur-Sarthe
- Maison Jean Vilar, Avignon
- Bibliothèque-musée de l'Opéra
- 19 boulevard Saint Michel
- Terrains agricoles (Yonne)



Arsenal

BMO

Richelieu

Les sites BnF



Bussy



BFM



Boulevard Saint-Michel

Louvois

Les sites BnF

MJV

12 Colbert

Sablé

A new estate strategy

12 +1-8

+

Preservation center

-

2 rue
Louvois



8 rue
Colbert



12 rue
Colbert



Agricultural
land

Sablé-
sur-
Sarthe



Bussy-
Saint-
Georges



Outsourced
storage
(prints)
CTLes

Outsourced
storage
(nitrates)

- Bibliothèque François-Mitterrand
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Master plan: for the next 30 years :

- With the expertise of a grouping :
Algoé (engineers) / Cabinet
Clément (lawyers) / ABCD
(architecture programming)
- A 2 years mission : 2019 - 2021
- In 3 phases: Diagnosis / Asset
strategy / Real estate master plan

Main decision :

- New construction decision

But Where ?

June 2020: “AMI” : an innovative
process

October 2020: 70 proposals

Summer 2021: list of 3 sites

Autumn 2021: Validation of the
classification by the Minister of
Culture

And

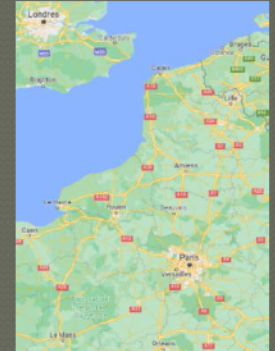
validation of the project and the
method of financing in an
interministerial meeting : Amiens

Amiens

Selection criteria

We ask for :

- Land size: 15 000 m² buildable
- Accessibility of the site
- Living environment
- Cultural partnership
- Financial partnership



Amiens proposal :

- 30 000 m² building potential
- High frequency train : 31 per day, travel time : 1 H 10
- 180 000 citizens, university city
- Very high cultural and a pleasant living environment
- Co-financing: 40% of the cost of the project (we estimated the construction budget to 90 Million euros investment)

Amiens



Carte IGN, Source : Géoportail

et de la Citadelle.

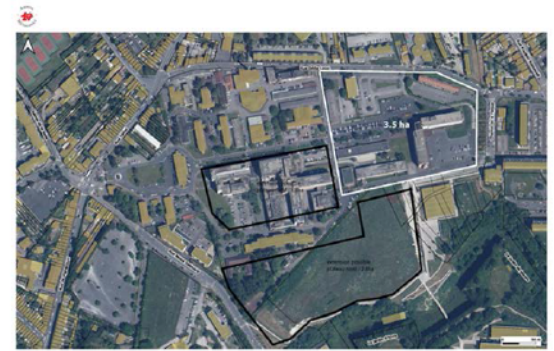


Photo aérienne du site, source Amiens Métropole



Part 2 : Where do we stand?

Programming

Objectives and methods

Objectives :

- Carrying out studies prior to the architect's work
- Taking into account the BnF's choices as well as the parameters of the project: uses, quality of life at work, environmental objectives, characteristics of the site, budget.

Methods:

- Analysis, workshop work with concerned experts, consultation with project partners
- Description of the different spaces, their functions and relationships within the building.

Timeline:

- With the programmer (Setec) began in July 2021 - The programme will be formally validated during **the second semester of 2022**

Programming

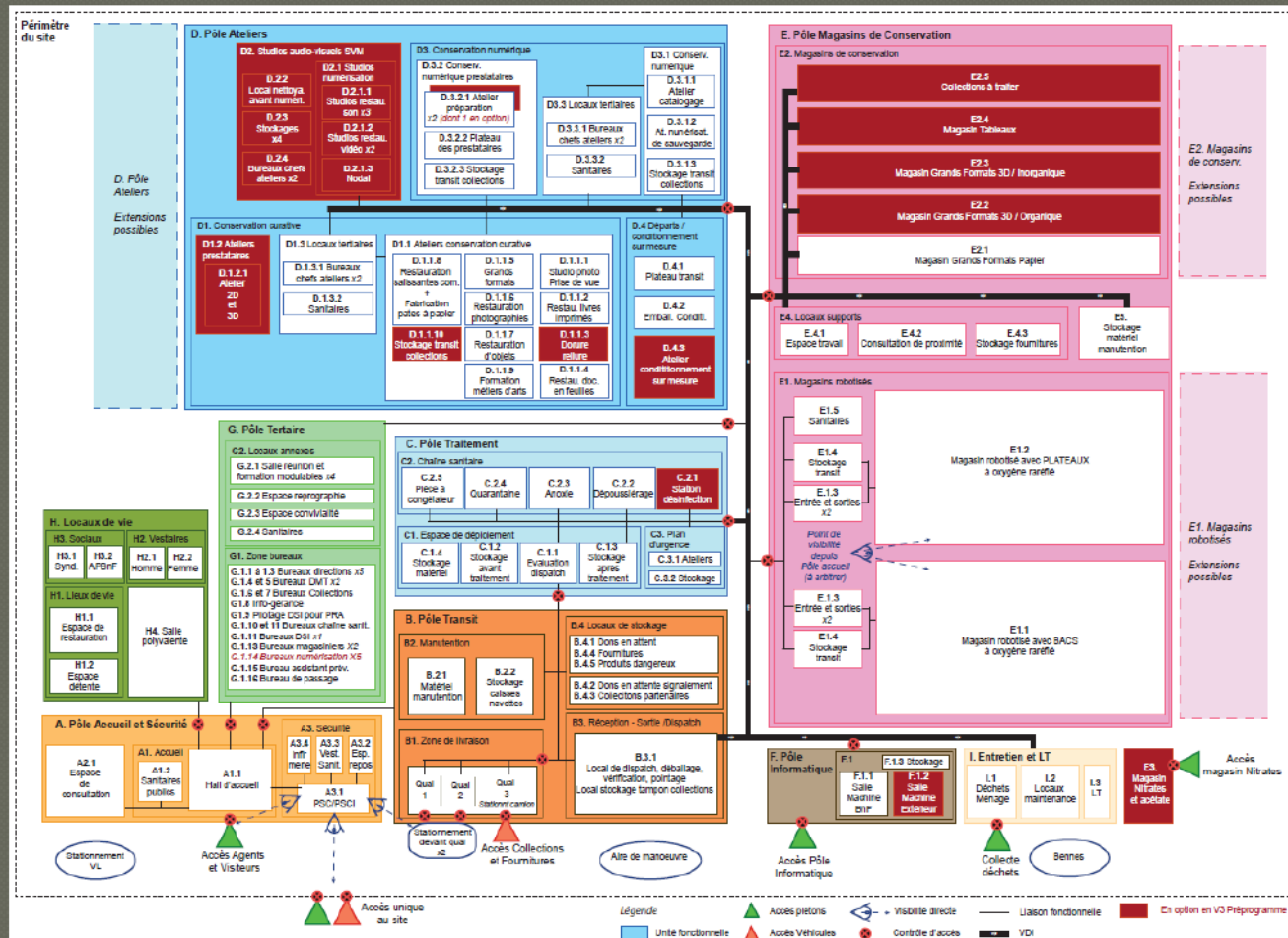
The main functions

11 585 m²

143 staff

- Capacity for very long-term storage of collections in optimal conditions
 - 283 kml collections (159 + 125 km (30 years of growth 4,2 kml / year)
 - And a land reserve (XXXX)
 - about 30% on average of the BnF collections on the new site in 2030.
- National Press Conservatory
- Consultation area
- Conservation and digitisation activities
- 2nd data center of the BnF

The block diagram



Storage

2 types of storage :
First = conventional
820 m²
8 staff

- Approximately 2,5 kml
- Rolling shelving
- Type of collections :
large sizes, paper
- providing growth
capacity to 2050 (30
years)

Specificity storage

- Benchmark
 - Switzerland : Büron Speicher Bibliothek
 - Great Britain : Boston Spa national Library
 - France : National Archives,
 - France: Conservation center Louvre (Liévin)
 - Canada : Gatineau
- SIAF Laboratory (french national Archives)
- Sustainable development architecture:
 - An airtight building
 - Good thermal inertia
 - No active heating or cooling in void
 - No light
 - Climate setpoints:
 - 1°C max per day,
 - 2°C per week,
 - HR : 5% max per day
 - Temperature range (T): 16°C-23°C,
 - Relative humidity range (RH): 45%-55%.
 - Priority : stable relative humidity
- Fire protection: hypoxia:
 - 13.5% oxygen (without sprinkling)
 - versus 14.9 %
- Monitoring :
 - Volatile Organic Compounds

Storage

Automated storage 5 245 m²

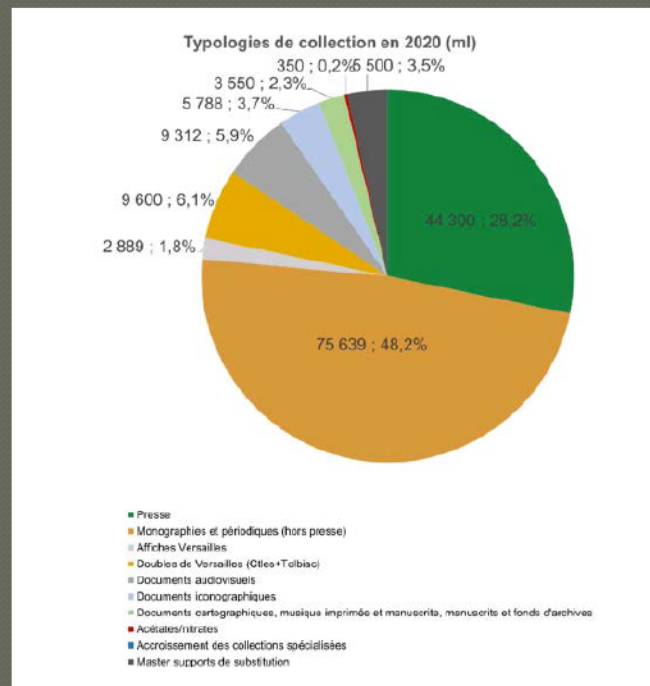
| | Détails | Quantité |
|-------------------|-------------------------|----------|
| Informatique | WCS + WMS | 1 |
| | Transtockeurs | 3 |
| Stockage bacs | Emplacements rayonnages | 335 486 |
| | Bacs | 303 397 |
| Stockage plateaux | Transtockeurs | 2 |
| | Emplacements rayonnages | 34 756 |
| | Plateaux | 33 101 |

- High density :
 - 2029 = 157 kml = desaturation
 - 2059 = 125 kml = increase (30 years)
 - 60,9 ml / m² containers
 - 21,72 ml/m² trays
- The storage will be divided into two separate areas to store the smaller collections in containers (60 * 40 * 27/32 cm) and the larger collections on trays (120*80 cm).
- High 18,5 mètres / lenth 94 , width 40 and 25
- Visible in part
- Expert Intra logistics : Artélia

National Press Conservatory

- A special attention to the press through the creation of a national press conservatory.
- All press collections (44 kml) will be stored in this new location, and all processing are planned on site
- This will finally be an opportunity to put away all the titles

Projected typology of collections for the future centre



Public offer

- **Items for BnF Paris reading rooms**
 - will be delivered for use the next day :
 - Estimated 300 items a day

- **Amiens:**
 - Reading room 60 m²
 - Reception area 50 m²

Preservation on-site

Workshops

1 848 m²

90 staff

- Curative conservation (786 m²)
 - The photo studio / shooting
 - The workshop for the restoration of books, printed matter and precious documents and bookbinding – gilding
 - The workshop for the restoration of sheet documents in all formats
 - The large format workshop (maps etc.)
 - The workshop for the restoration of photograph
 - The object restoration workshop
 - A workshop for dirty restoration
 - The workshop for the training of craftsmen
- Digital conservation (962 m²)
 - cataloguing workshop for digitization
 - internal digitization workshop
 - digitisation workshop to host service providers
- Sanitary chain (670 m²)
- Emergency plan (225 m²)

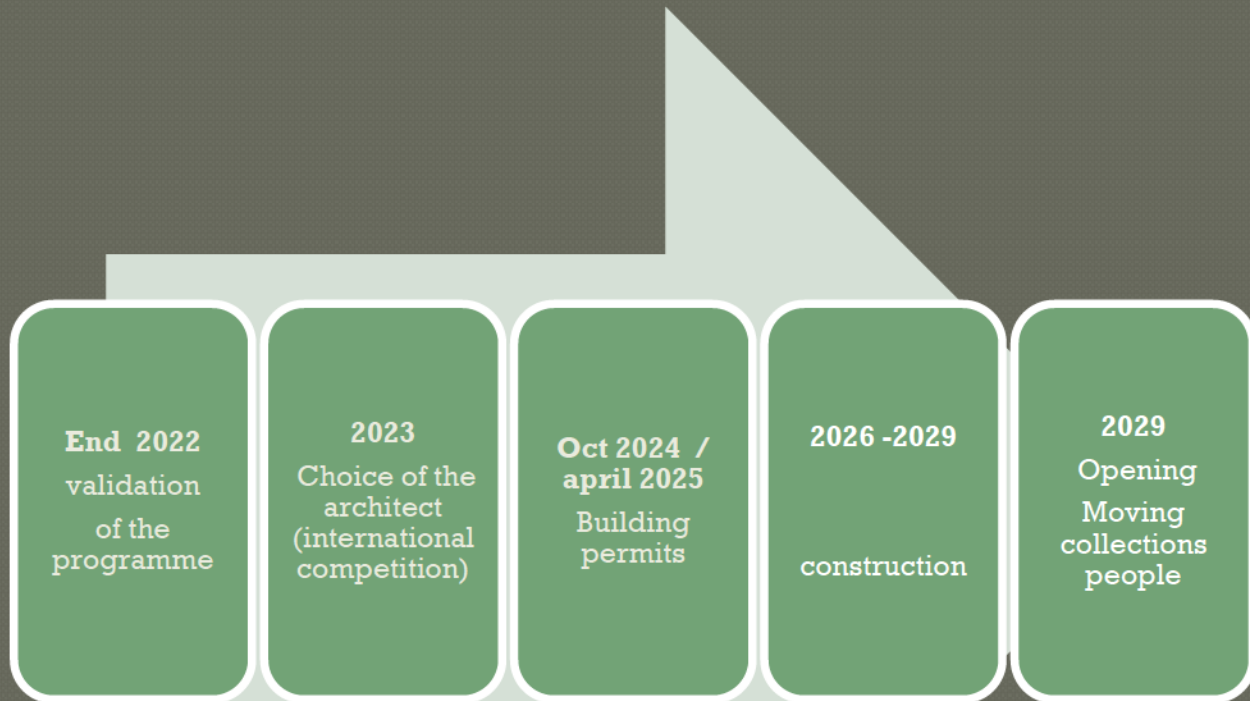
Programming

Focus :
environnemental
objectives

- **Both sustainable and scalable**, adapting to climate change and gaining management efficiency
- **Airtight / passive storage** , no air conditioning in the storage, humidity monitoring
- **Certified approach : HQE (high environmental quality) sustainable building**
 - Themes: bioclimatic design and thermal comfort, energy performance, rainwater management and reuse, indoor air quality, occupant comfort and health
- **Labelisation Osmoz**
 - to improve the quality of your working environment
 - For the staff

Part 3 : Next

Timeline



The actors

Marché publics de services

- Menighetti 2018-2019
- Algoé : SDI – 2019-2021
 - ABC Architecture
 - Cabinet Clément
- Programmation : Setec 2021-2022
 - IB conservation
 - Terao
- Intra logistique , Artélia 2022
- Evaluation socio économique , Citizing, 2022
- Organisme certificateur HQE BD, Certivéa 2022

Project manager's assistant

Tutelles = Etat

MOD
Délégué project management

- Région : Hauts de France
- Département de la Somme
- City : Amiens

Project management BnF
Equipe PAM

Architect

Phase conception :

- ESQ : esquisse
- APS : Avant projet sommaire
- APD : Avant projet détaillé
- PRO : projet

Phase Exécution

- VISA : études d'exécution EXE
- DET : direction exécution des travaux
- AOR : assistance aux opérations de réception

OPC
Ordonnancement –pilotage et coordination

Marché publics de travaux

Thank you for your attention

Any questions ?

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