

Methodological Proposals for Designing Federative
Platforms in Cultural Linked Open Data:
the exemple of ModRef

Linked Data in Libraries:
Let's make it happen !

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Labex Les passés dans le présent
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MoDyCo
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ModRef

- > Objectives / Projects
- > Methodology



Analysis of the existing

- > Five dimensions analysis
- > Twelve variables
- > Analyzes



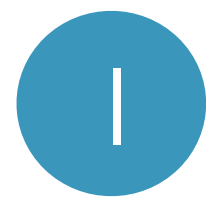
Choices and Challenges

- > Exposure modes of data
- > From a model to models
- > URIs
- > Vocabulary



Proof of concept

- > Objectives and milestones
- > Tools
- > First initiative



ModRef

Modeling, Frames of Reference and Digital Culture

Objectives

Project leaders

Anne Faure (Quai Branly Museum) and Jean-Luc Minel (MoDyCo)

The objective of this collective project is, first, to inventory the characteristics of each digitization project in the cluster, to establish a panorama of innovative systems that could be implemented for these digitization projects, and to complete a study of the actual uses of these innovative systems by cultural institutions.

Second, the project will engage thinking about digital culture and its interconnection with the production and the circulation of cultural contents. It will tackle the question of the role played by digital technologies and the media in modes of diffusion and exchanges by linking digital culture to the evolutions of social, cultural, and political mediations. We will notably study the impact of frames of reference (thesaurus, ontologies, taxonomies) on the process of appropriation of concepts and ideas as much by the large audiences as by specialists.

Projects

Digitized collections of the BNF's
Departement of Medals

The Scholia to Homer's Iliad: from text to
hypertext

European poster (1914-1945)

Photographs from the First World War,
« Valois Albums »

Memories of the decolonization
(collection of oral archives)

Sources of ethnomusicology

Comedie-Française Register Project

Paris guidebooks (historians of art and
digital collections)

The birth of French ethnology. The first
ethnographic missions to Africa

Archives of archeological digs at
prehistoric and ancient sites

The Commissions of « Topographie des
Gaules » (1858-1879)

Putting online experimental and
ethnoarcheological frames of reference
on archeological techniques

ObjMythArcheo

SchoHomère

AffichEuro

AlbValois

CorpuOraux

MusicoSource

Comédie

ParisGuide

NaissEthno

ArchiFouilles

TopoGaules

EthnoArchéo

BnF

MAE

ARSCAN

ARSCAN

Partenaires associés hors du Labex

BDIC

ISP

Partenaires associés hors du Labex

BDIC

ISP

Partenaires associés hors du Labex

BDIC

ISP

Partenaires associés hors du Labex

BnF

MAE

MQB

HAR-UPO

Partenaires associés hors du Labex

HAR-UPO

BnF

MAE

BnF

MQB

MAE

ARSCAN

MAN

BnF

Autres partenaires hors du Labex

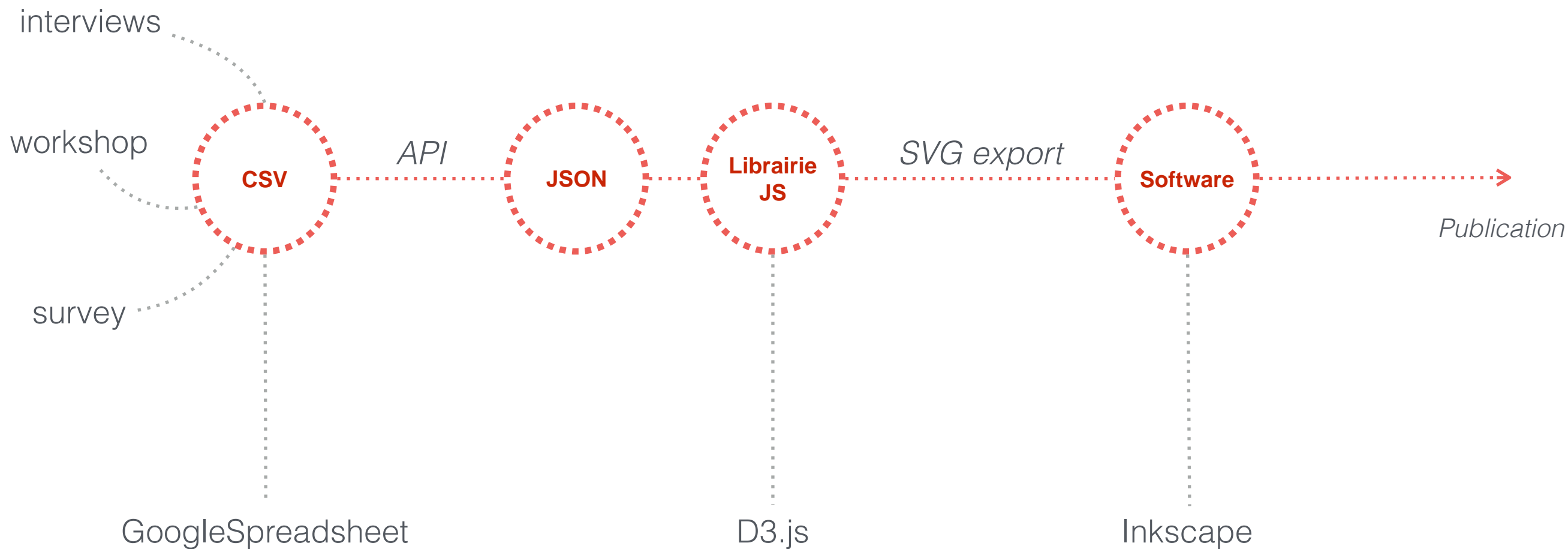
MAE

Autre partenaires hors du Labex

Project Names

Acronym

Institutions engaged

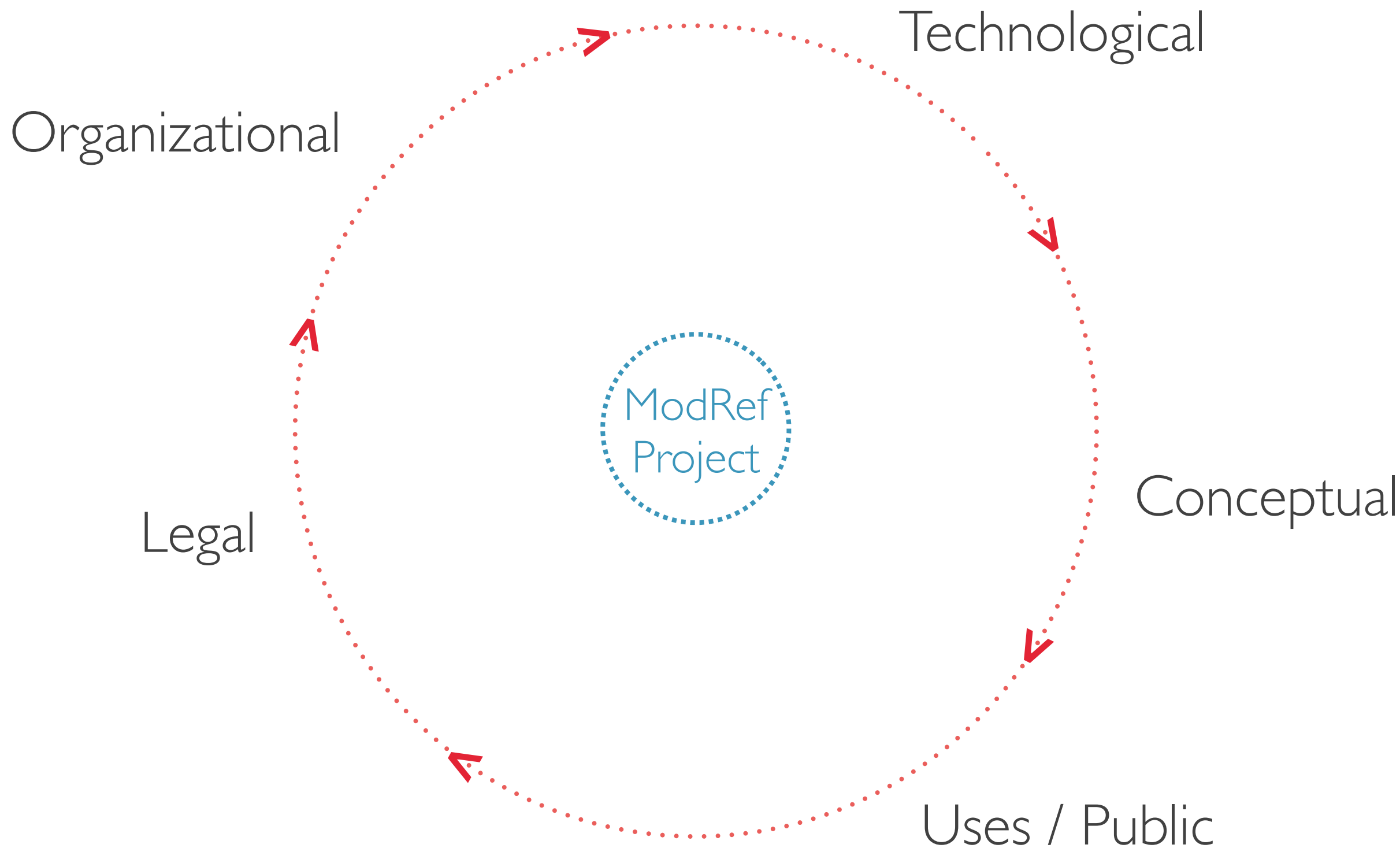




Analysis of the existing

Modeling, Frames of Reference and Digital Culture

> Five dimensions analysis



> Twelve variables

▶ **Ultimate goal** of publication materials (corpus) or editorialisation content (virtual exhibition with scientific discourse) ?

▶ **Target audience** (and uses)

▶ **Disciplines involved** : history, art history, archeology, ethnology,...

▶ **Multimodal aspects** of digital objects: text, images, sounds, 3D files,...

▶ **Number of partners** and their location

▶ **Institutional source projects** : research institutes (CNRS, University, museums, librairies, archives,...

▶ **Volume** of digitization and metadata

▶ **Conceptuel model** (origin and desired)

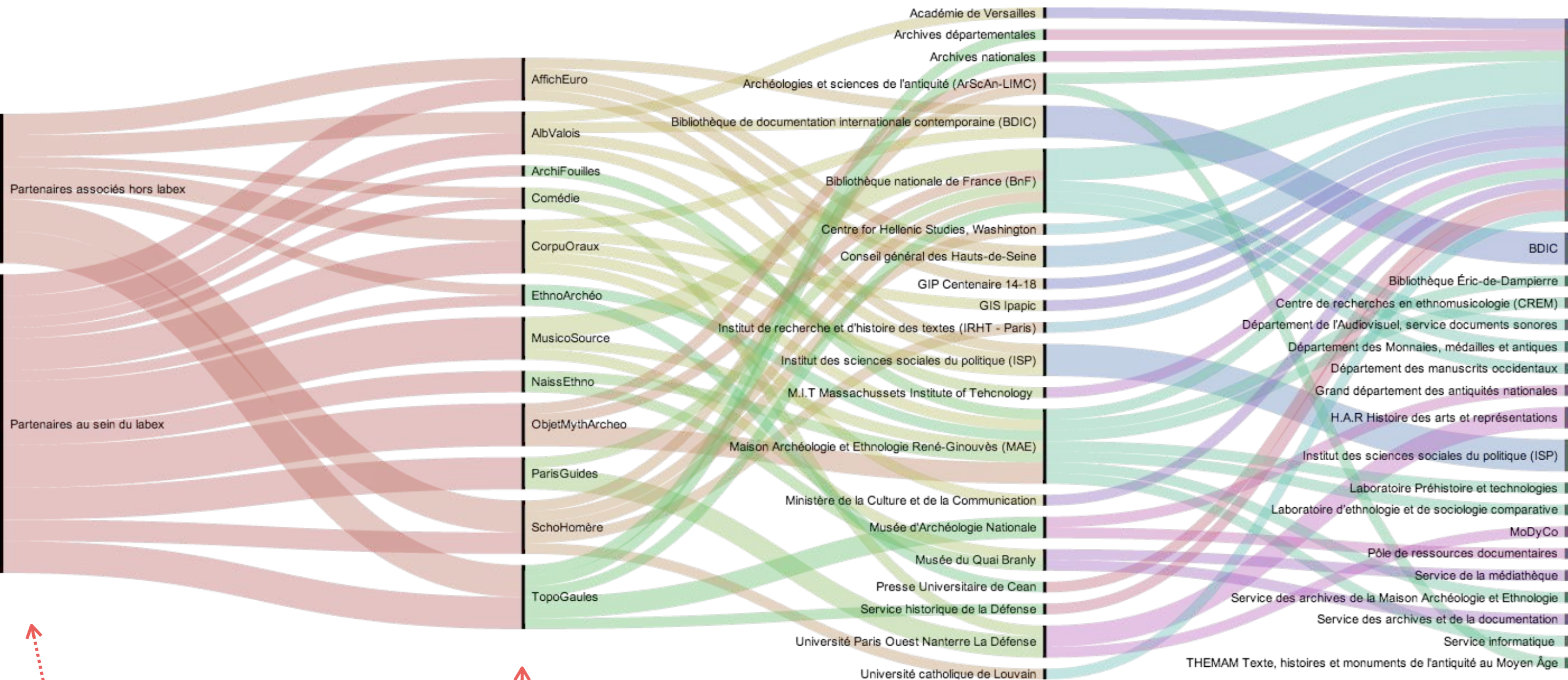
▶ **Choice of standards**

▶ The issue of **licences**

▶ **Team formation**

▶ The **Initial status** of projects

> Analyzes : organizational complexity



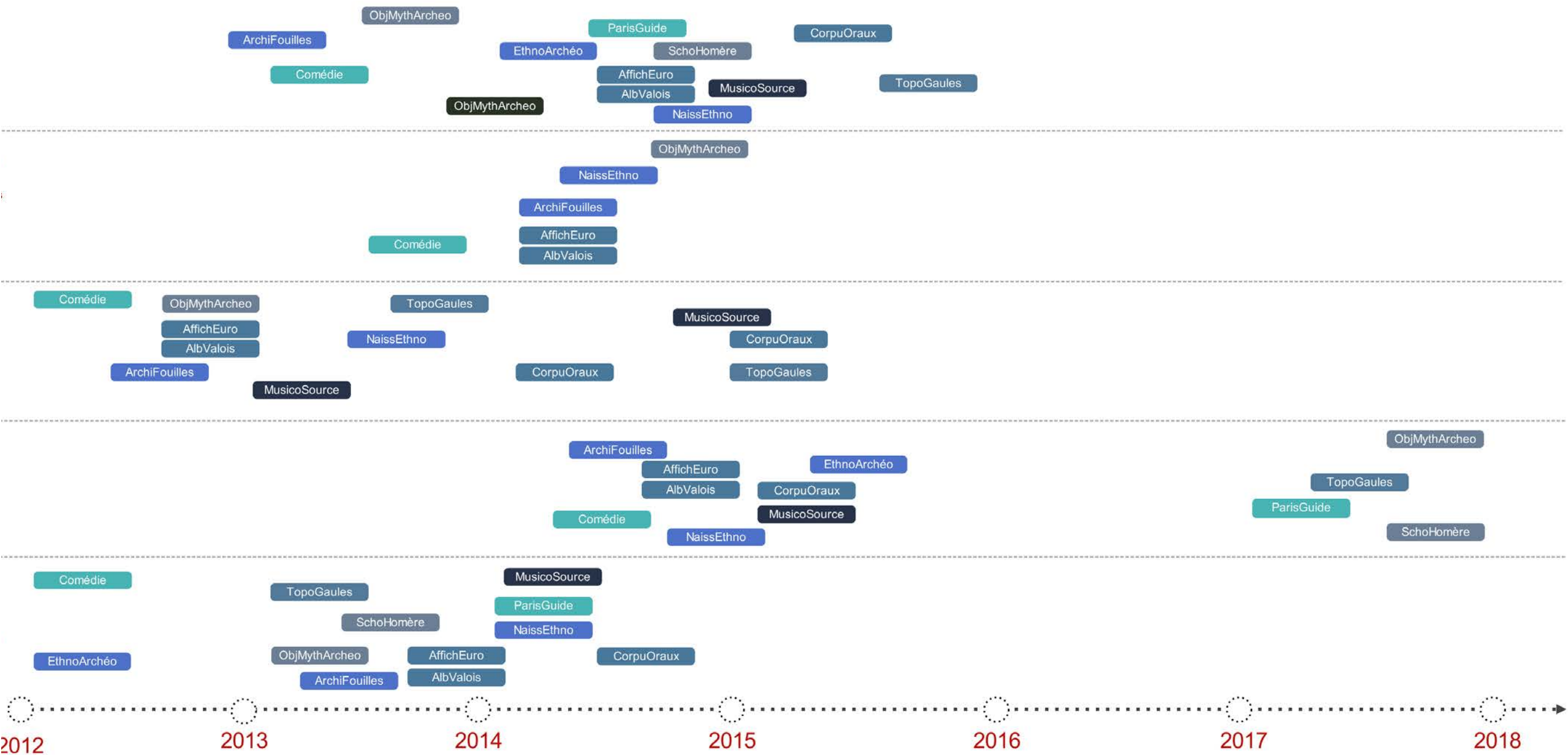
↑
Associated
or Partner

↑
Acronym of
projects

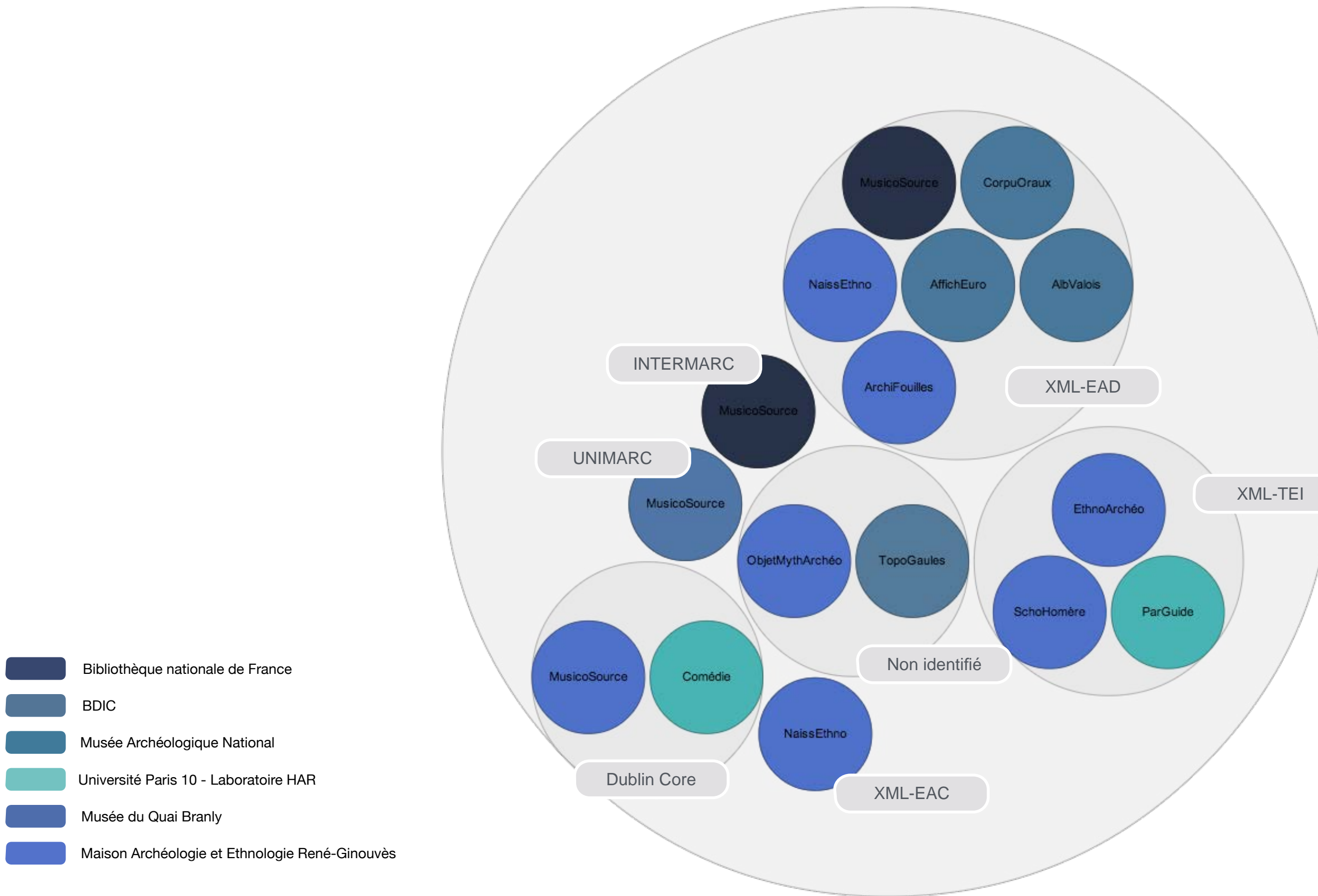
↑
Establishment

↑
Service
within
institutions

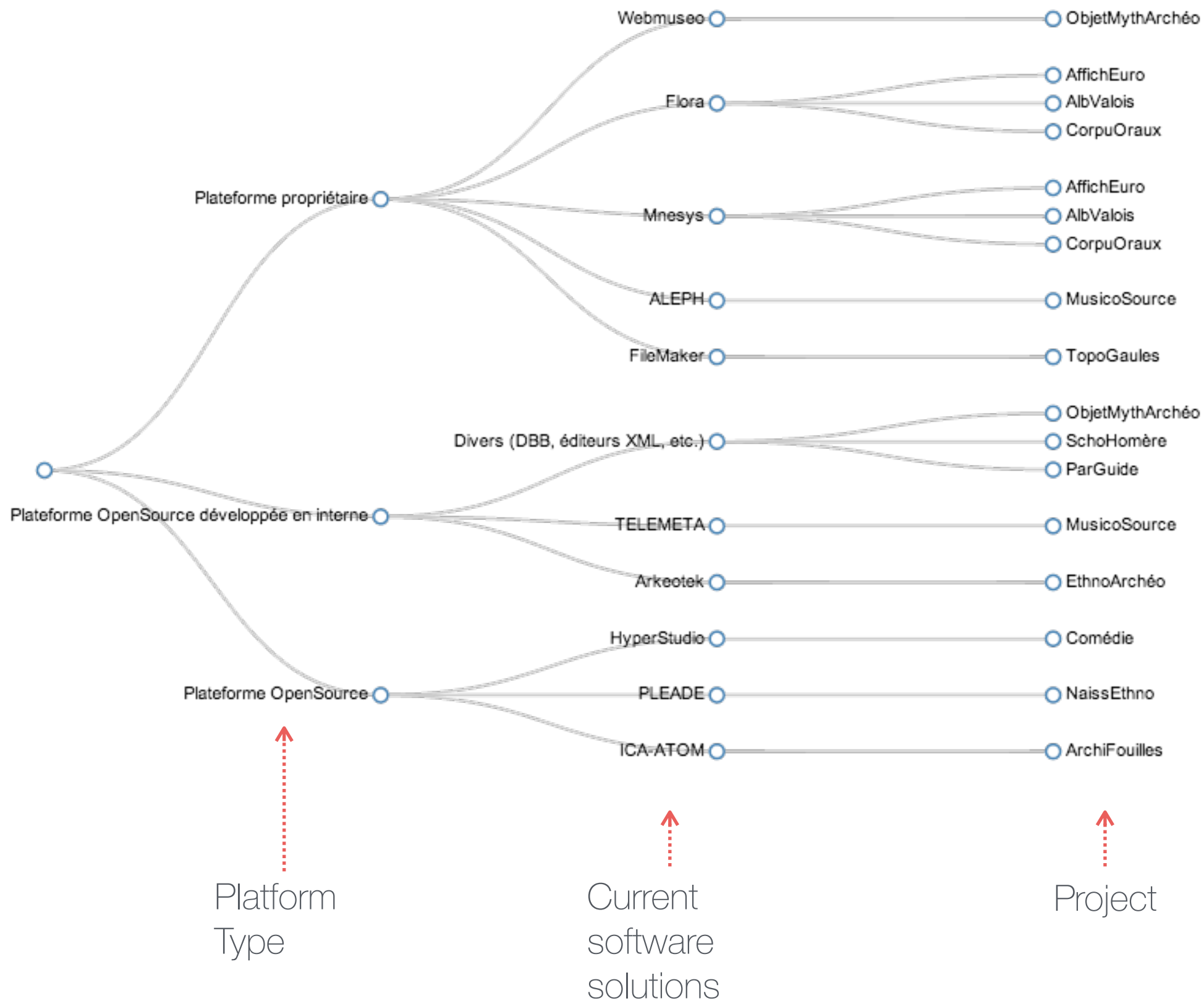
> Analyzes : time complexity



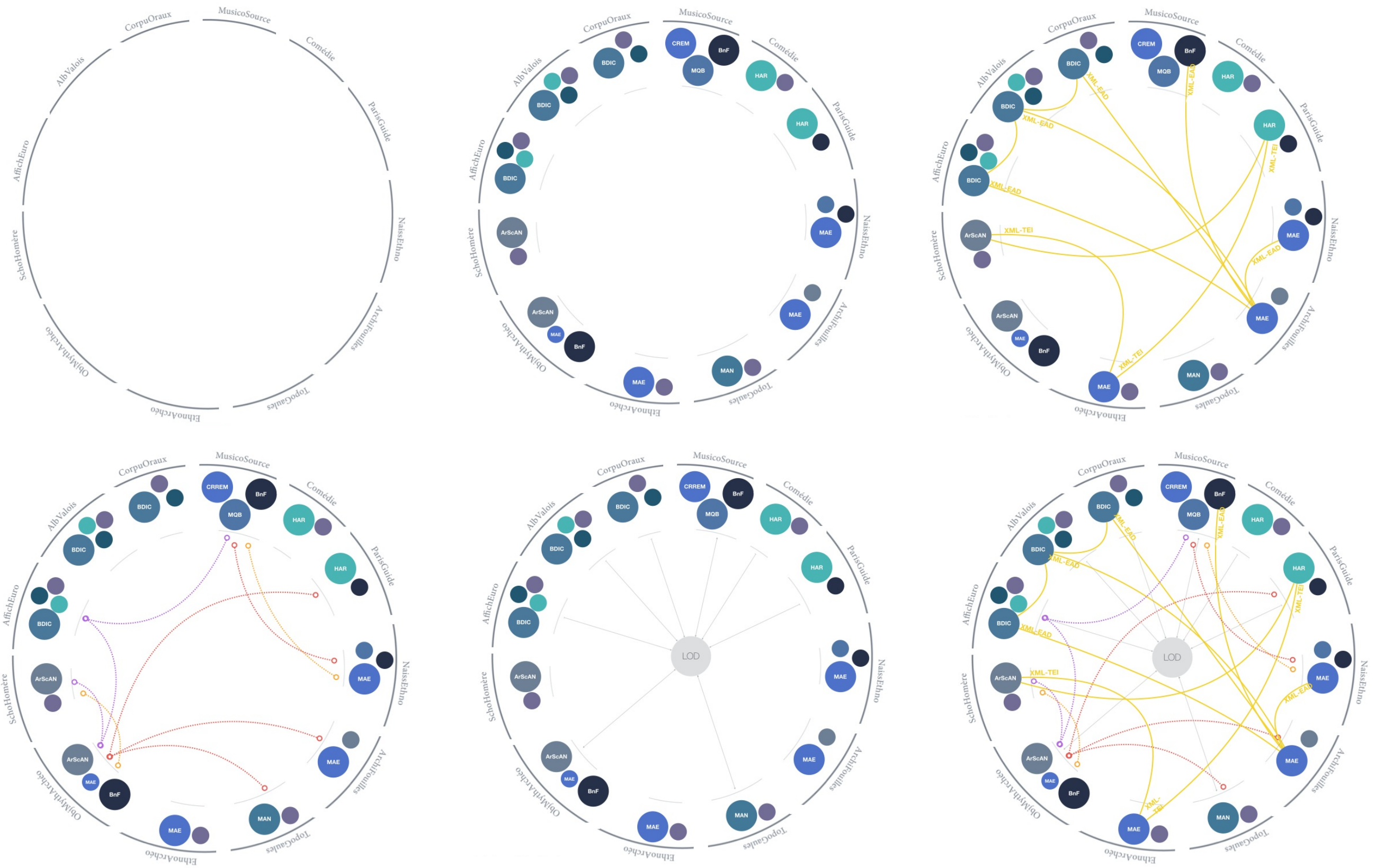
> Analyzes : conceptual complexity



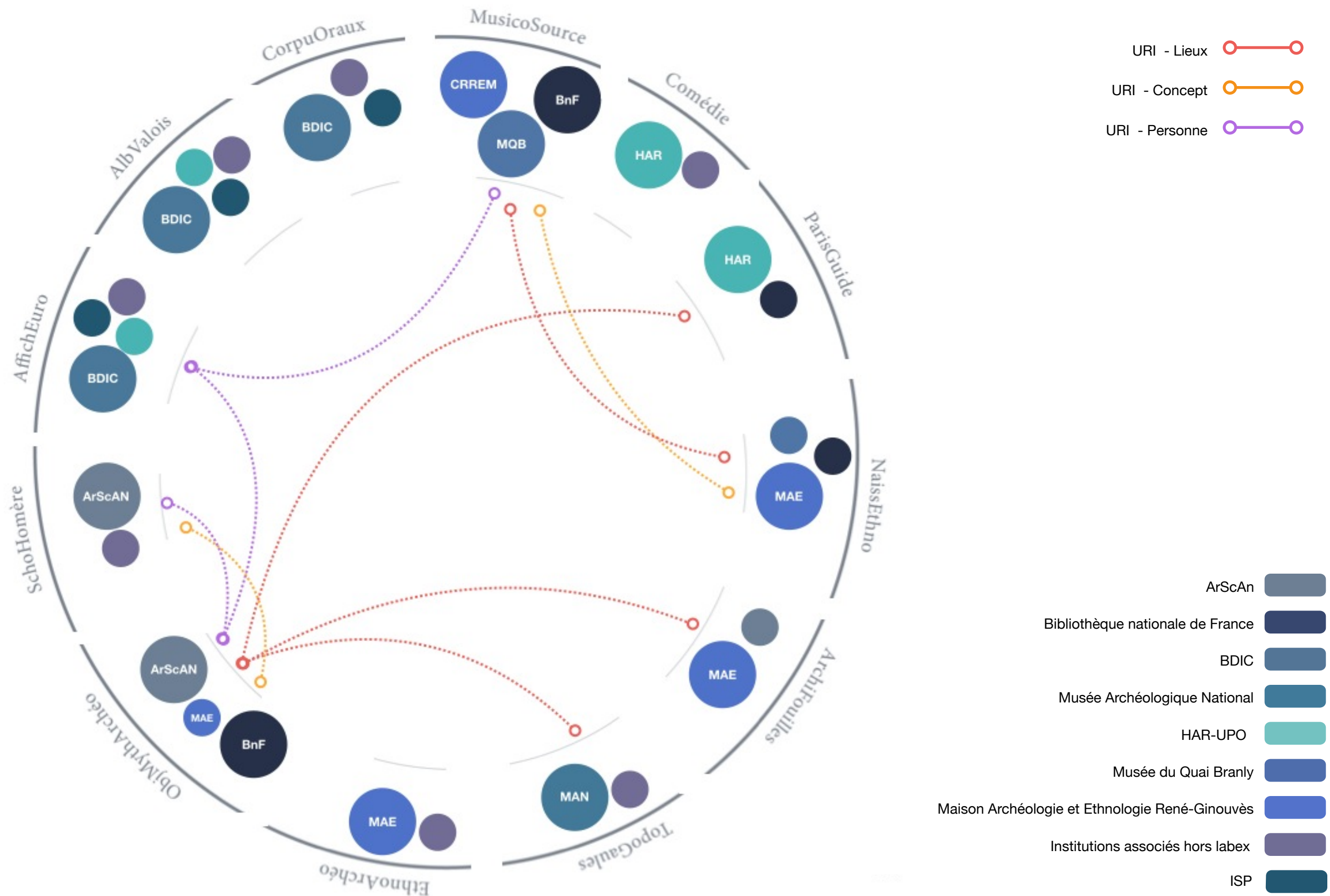
> Analyzes : technological complexity



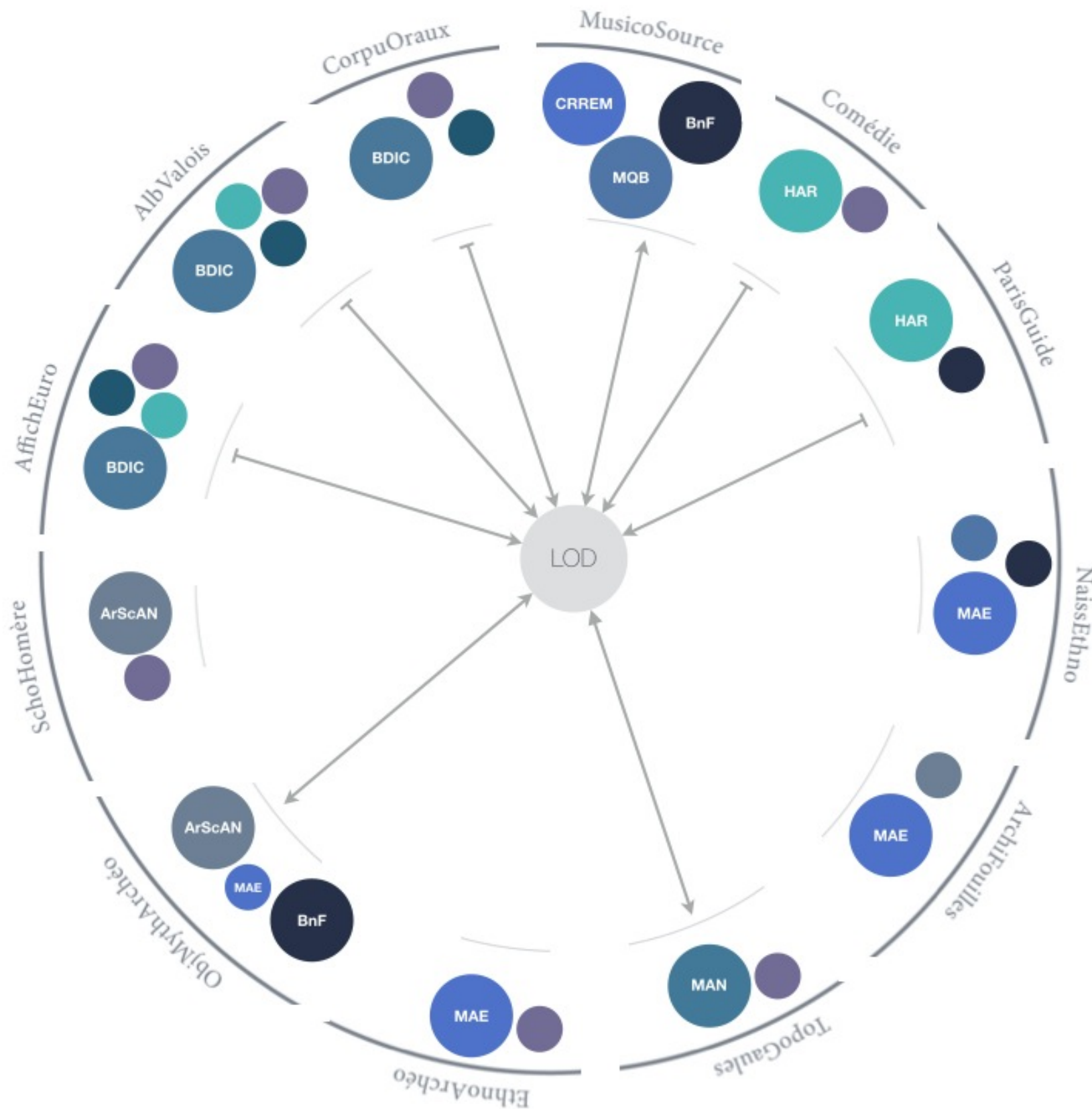
> Analyzes : ModRef's sphere



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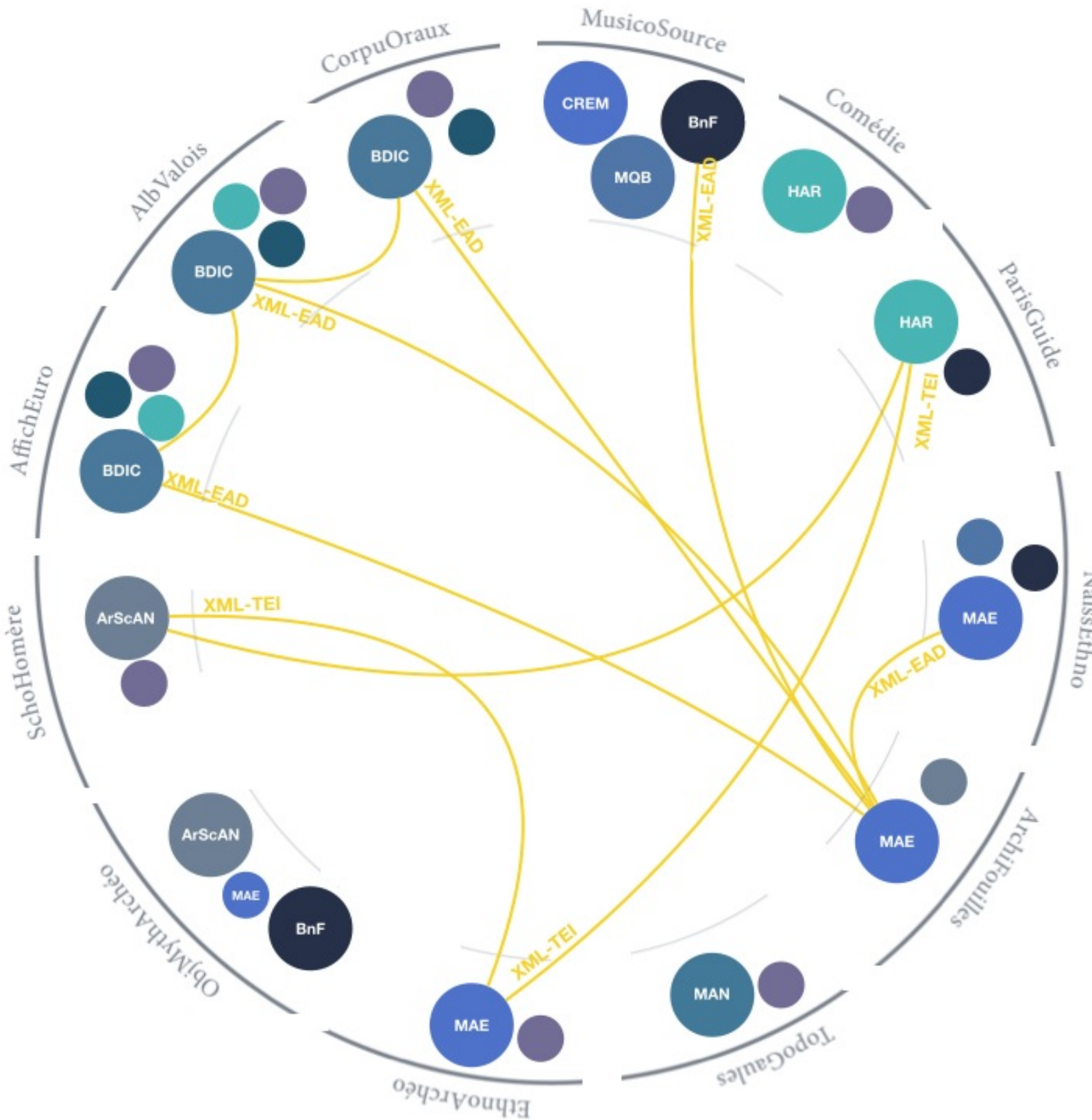
> Analyzes : ModRef's sphere



Récupération / exposition des données dans le LOD →

- ArScAn
- Bibliothèque nationale de France
- BDIC
- Musée Archéologique National
- HAR-UPO
- Musée du Quai Branly
- Maison Archéologie et Ethnologie René-Ginouvès
- Institutions associés hors labex
- ISP

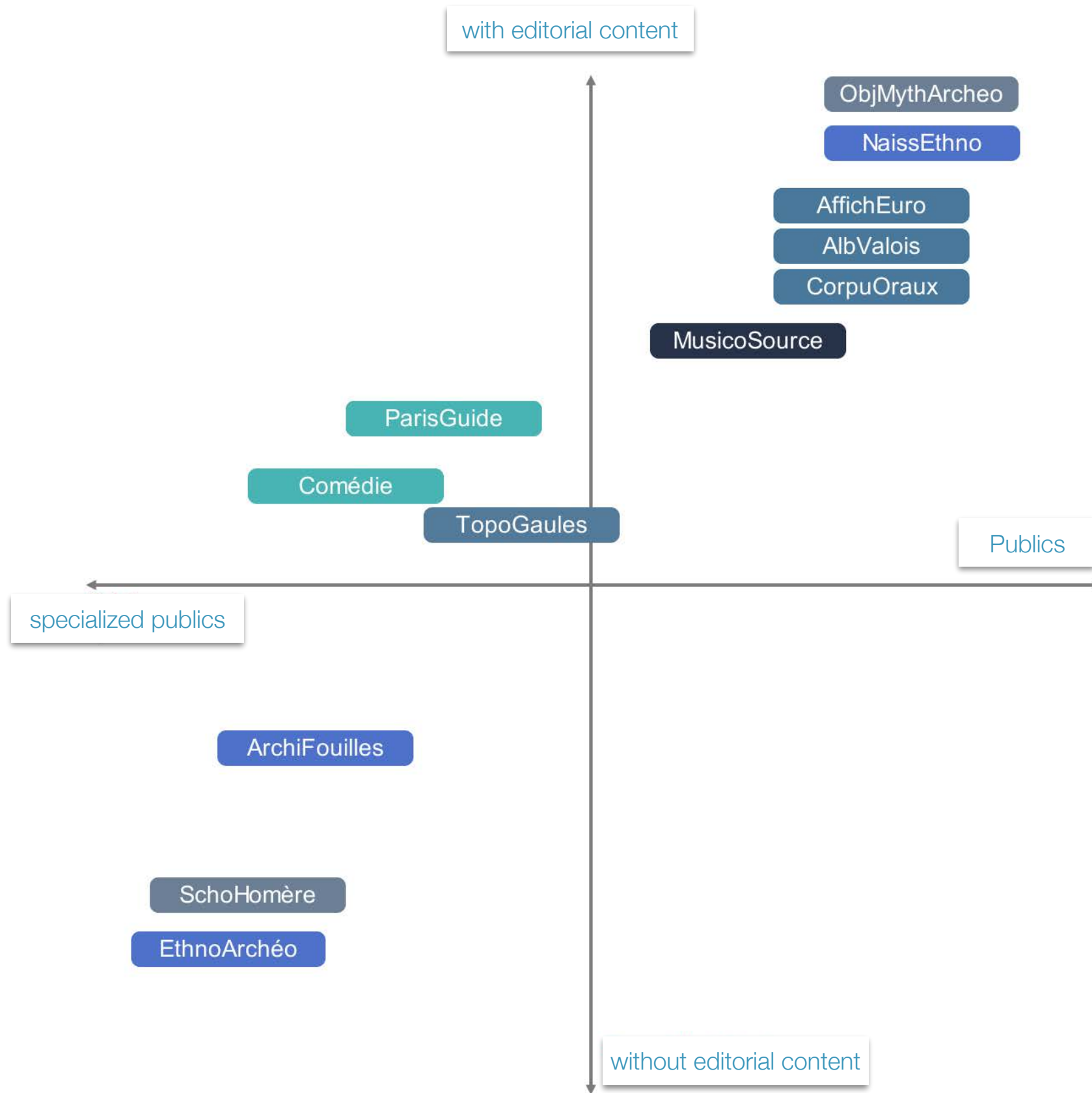
> Analyzes : ModRef's sphere

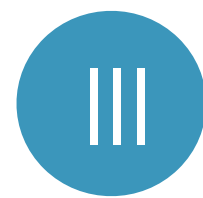


Standards —

- ArScAN
- Bibliothèque nationale de France
- BDIC
- Musée Archéologique National
- HAR-UPO
- Musée du Quai Branly
- Maison Archéologie et Ethnologie René-Ginouvès
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> Analyzes : For which public ?





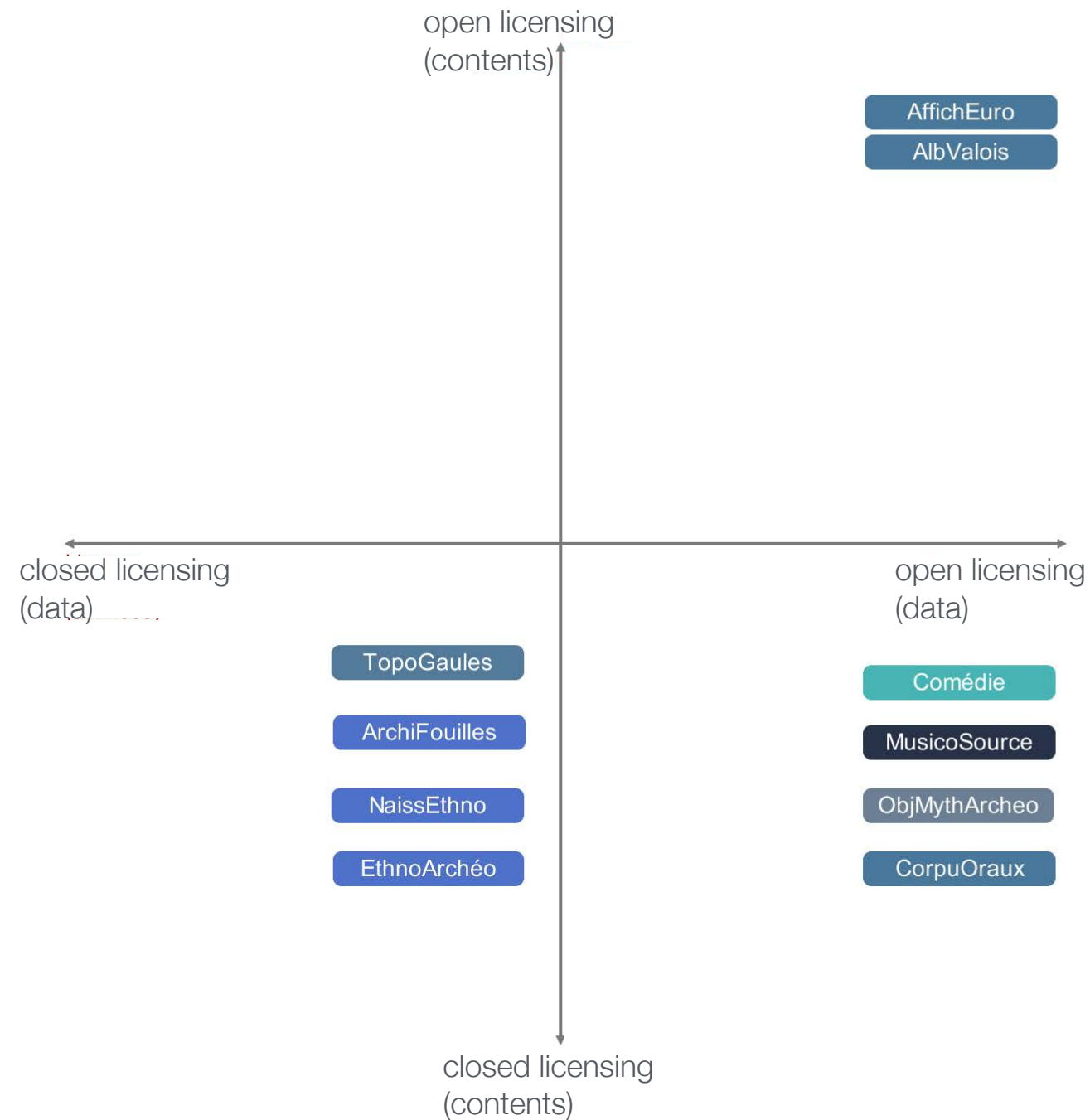
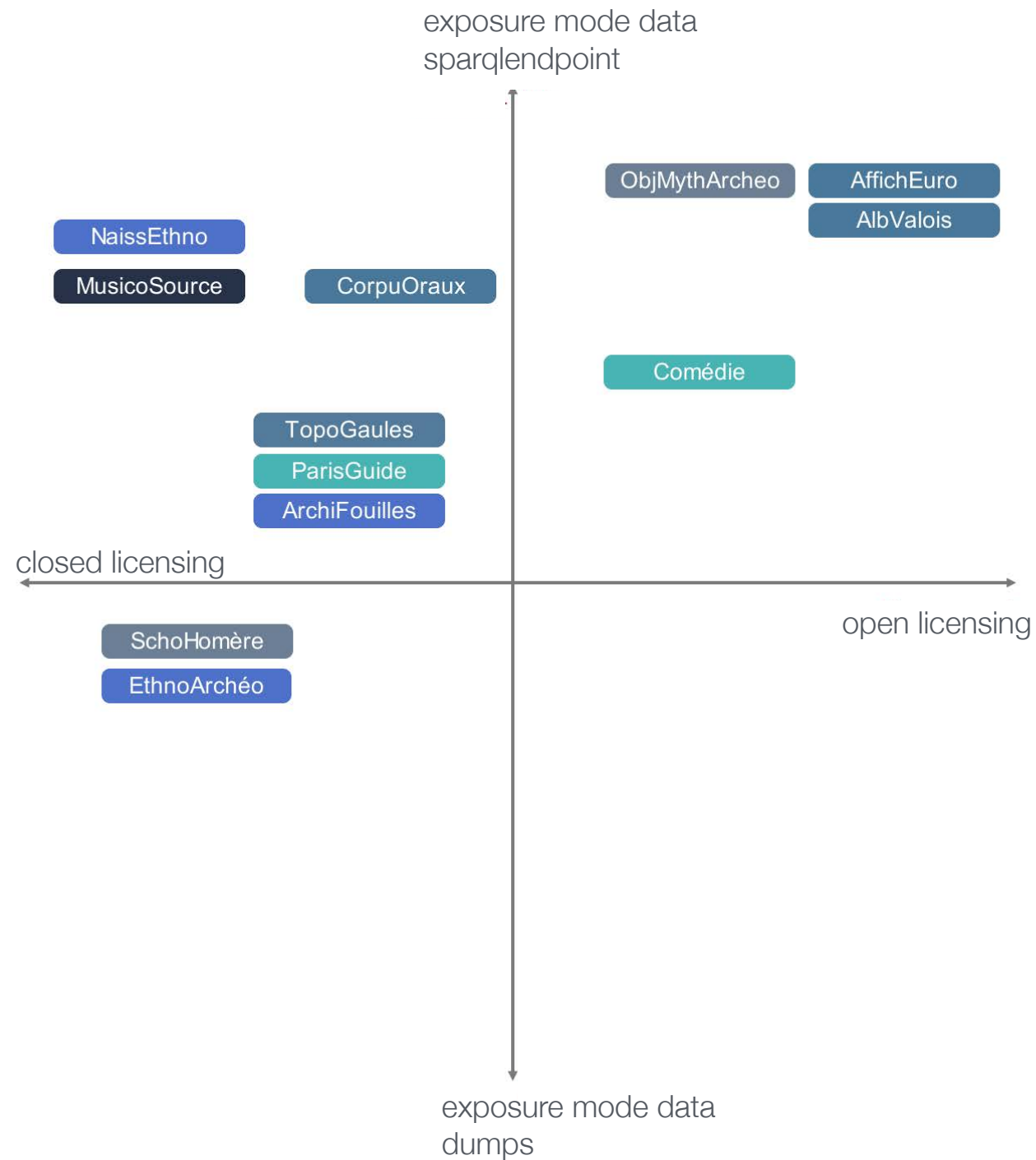
Choices and Challenges

Modeling, Frames of Reference and Digital Culture

> Exposure data



> Legal position



British Museum : CIDOC-CRM

Europeana : EDM

Smithsonian : EDM + Extensions

BNF : Modèle propre découlant de FRBR

Les possibilités offertes par RDF/RDFS/
OWL offrent une **bonne adaptabilité**

Exemples

British Museum : local URI

Smithsonian : URI locales + links with DBPEDIA

Quelques éléments de réflexion

Requires an integration process

One or more URI

Delegation of Authority

Enrichment uncontrolled properties

Inserts warehouse in the LOD

Network effect (attractor or unattractive)

Globalization of URI

Search engines and recommendation engines



Getty Vocabularies and Linked Data

Patricia Harpring

revised 17 June 2013

- We are fairly confident that our base URI will be <http://vocab.getty.edu/>
- Examples from the prototype - with other classes falling into place accordingly:
 - <http://vocab.getty.edu/resource/aat/subject/300028576> [content-negotiated 303 (See Other) redirect to...]
 - <http://vocab.getty.edu/data/aat/subject/300028576> [200 (OK) - application/rdf+xml]
 - <http://vocab.getty.edu/page/aat/subject/300028576> [200 (OK) - application/xhtml+xml]

Current Status: Linked Open Data (LOD)

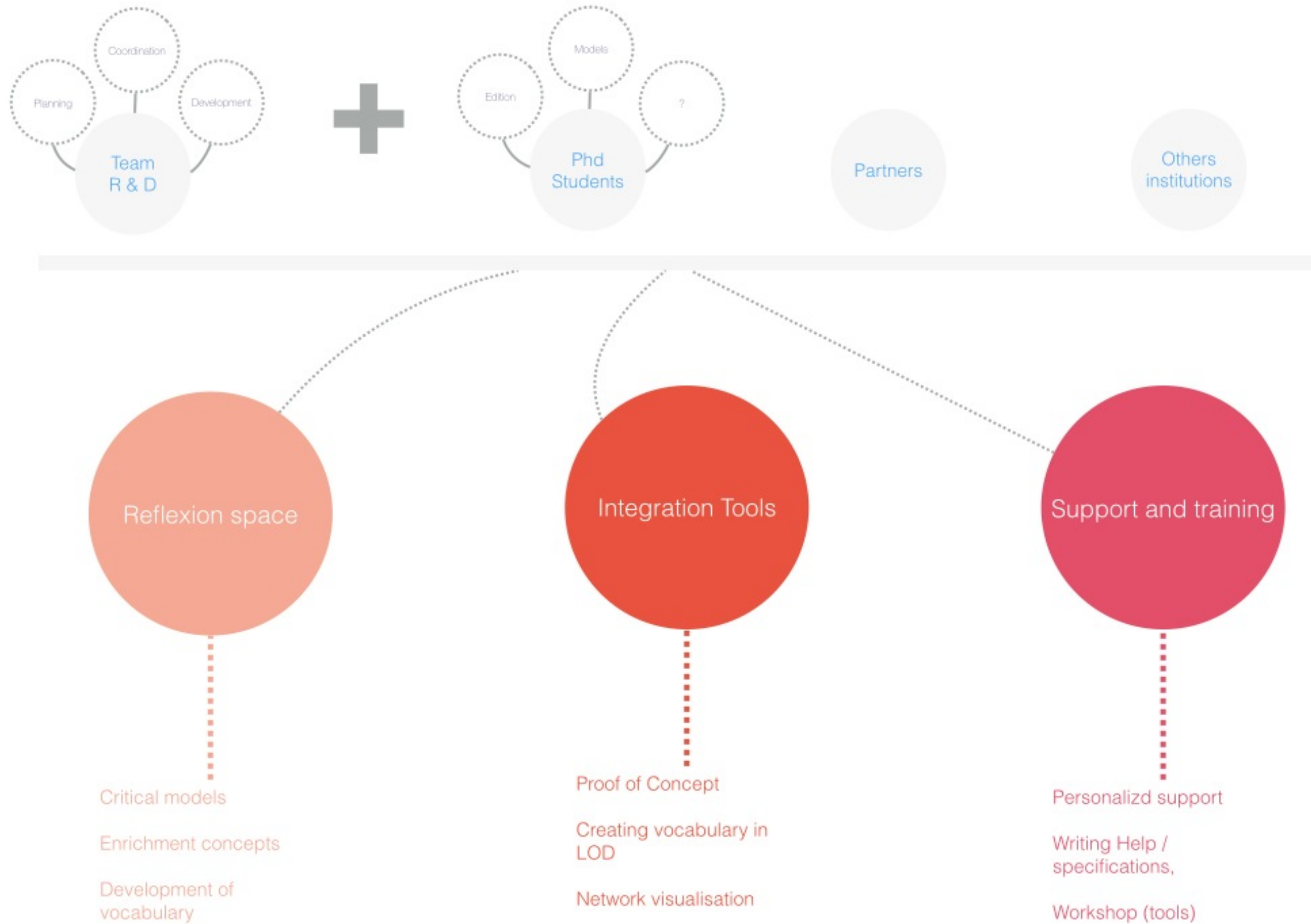
- We plan to publish all Getty vocabularies to the LOD cloud
- Implementation project begins July 2013
 - We will begin with AAT and then move on to TGN, ULAN, and finally CONA, from late 2013 through 2015
 - Sequence was chosen to take advantage of the way the vocabularies are connected: AAT is linked to itself; TGN pulls from AAT; ULAN from AAT and TGN; and CONA from all three
 - We also intend to publish LOD versions of our lookup lists (e.g., languages, roles, nationalities, place types, and bibliographic sources)
- We anticipate that the data will be published as SKOS and SKOS-XL formats under the ODC-BY 1.0 license



Proof of concept

Modeling, Frames of Reference and Digital Culture

> Objectives and milestones



Outils	URL	Créateur	Licence	Evalutation par rapport aux besoins
Antidot Information Factory	http://www.antidot.net/produits-services/produits/antidot-information-factory/	Antidot	Propriétaire	****
Armadillo... ?	http://www.armadillo.fr/app/photopro.sk/web/	Armadillo	Propriétaire	***
D2RQ	http://d2rq.org/	University of Mannheim	OpenSource	**
Datalift	http://datalift.org/	7 membres initiateurs: INRIA, LIRMM, Eurécom, Mondeca, Atos, IGN, INSEE	OpenSource	****
DataTank	http://thedatatank.com/		Propriétaire	**
Intelligence Topic Manager	http://www.mondeca.com/fr/Produits/Knowledge-Browser	Mondeca	Propriétaire	**
Karma	http://www.isi.edu/integration/karma/	Information Sience Institute - University of Southern California	OpenSource	****
OpenRefine + Extension RDF	http://refine.deri.ie/	Volontaires + DERI's pour l'extension RDF	OpenSource	***
OpenSemanticBus	http://www.perfect-memory.com/nos-solutions/les-offres/	PerfectoMemory	Propriétaire	****
OWLIM	http://www.ontotext.com/	Ontotex	Propriétaire	**
Silk	http://wifo5-03.informatik.uni-mannheim.de/bizer/silk/	University of Mannheim	OpenSource	**
Talend	http://www.talend.com/		Propriétaire	**
Triplify	http://triplify.org/Overview	Research Group Agile Knowledge Engineering and Semantic Web (AKSW) is hosted by the Chair of Business Information Systems (BIS) of the Institute of Computer Science (IfI) /University of Leipzig as well as the Institute for Applied Informatics (InfAI)	OpenSource	**
Virtuoso Sponger	http://virtuoso.openlinksw.com/dataspace/doc/dav/wiki/Main/VirtSponger		Propriétaire	**
Workbench	http://www.mysql.fr/products/workbench/		Propriétaire	**

Thanks