

The 36th joined meeting of the CIDOC CRM SIG and ISO/TC46/SC4/WG9
and
the 29th FRBR - CIDOC CRM Harmonization meeting

Heraklion, Crete, 3 August 2016

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**The symogih.org project :
an ontology for collaboratively producing,
sharing and curating historical data**

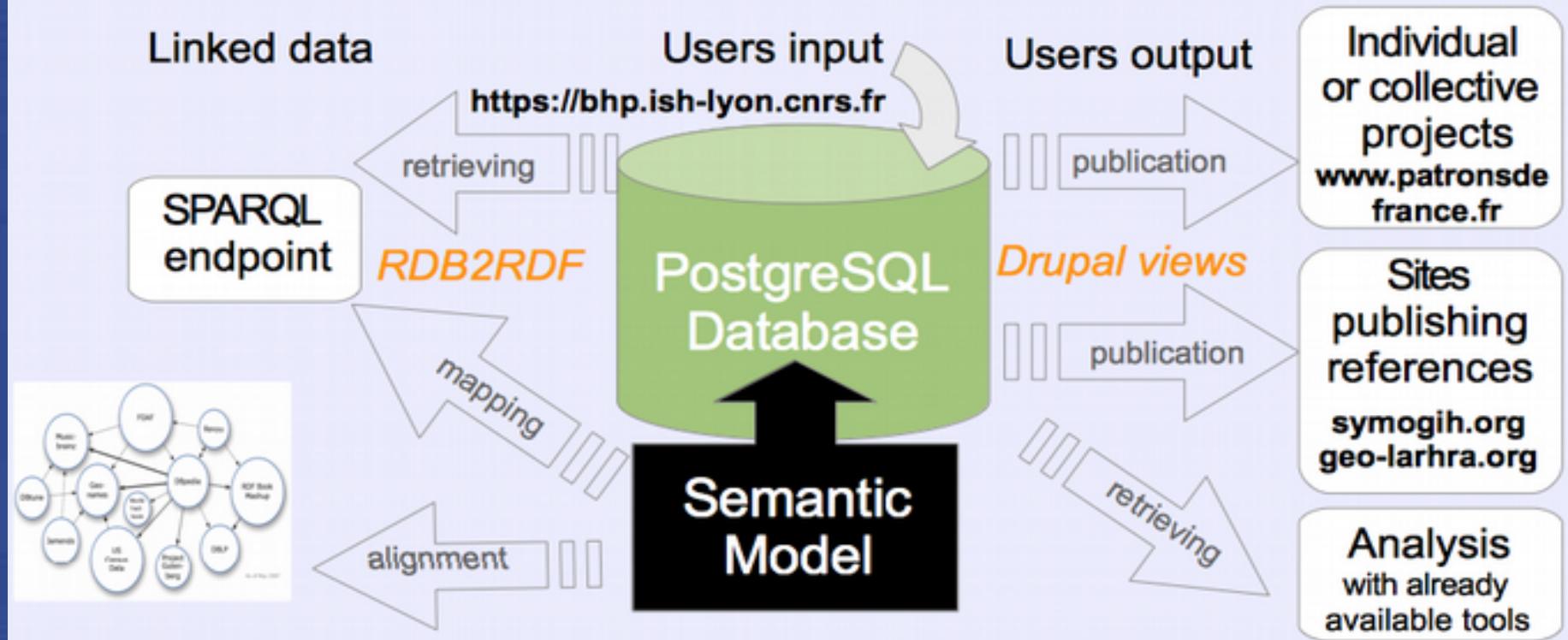
1. The symogih.org project's general research agenda

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2. Producing structured historical data: the symogih.org ontology

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2. Producing structured historical data: the symogih.org ontology
3. The symogih.org ontology : CIDOC – CRM compatible ?

SyMoGIH : modular system for historical information management

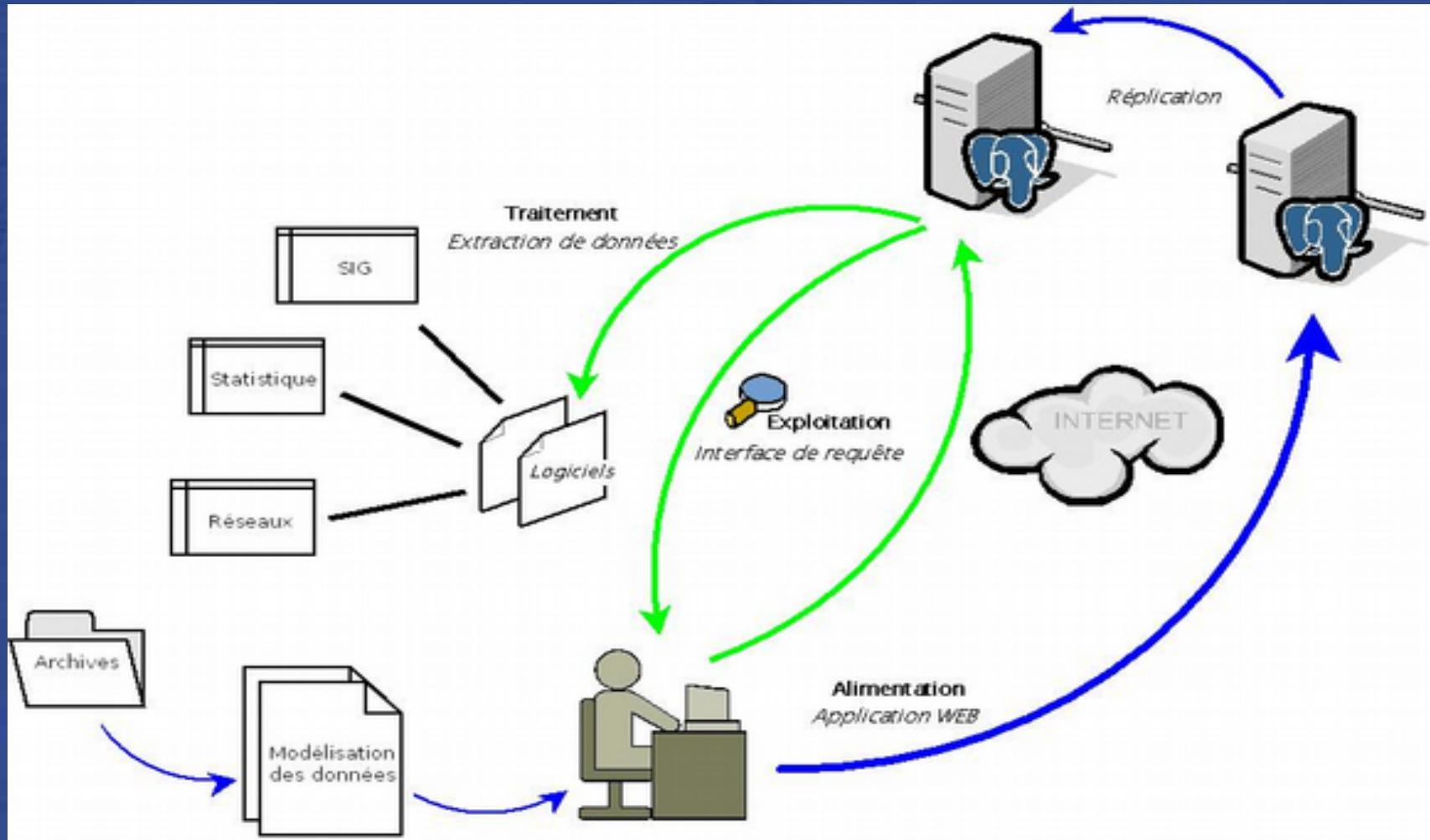
Open, modular, collaborative platform for storing, analyzing and publishing historical data and texts



Project existing since 2008.

About 50 scholars and students, and 15 research project, are currently using the collaborative database to store and share historical information

1. The symogih.org project's general research agenda



A collaborative and cumulative information system for storing historical data:
produce, share, visualise and analyse structured historical data

Galileo Galilei taught mathematics at the University of Padua from 1592 and 1610

BHP - Interface de gestion des données

Unités de connaissance

Acteurs
Acteurs collectifs
Caractères sociaux
Objets abstraits
Objets concrets
Objets digitaux
Bibliographie
Unités documentaires

ce d'alimentation de la Base
jet.

Actr : Galilei, Galileo

AbOb: Mathématiques

CoAc: Université de Padoue

Source : Dizionario biografico degli italiani, vol. 51

```

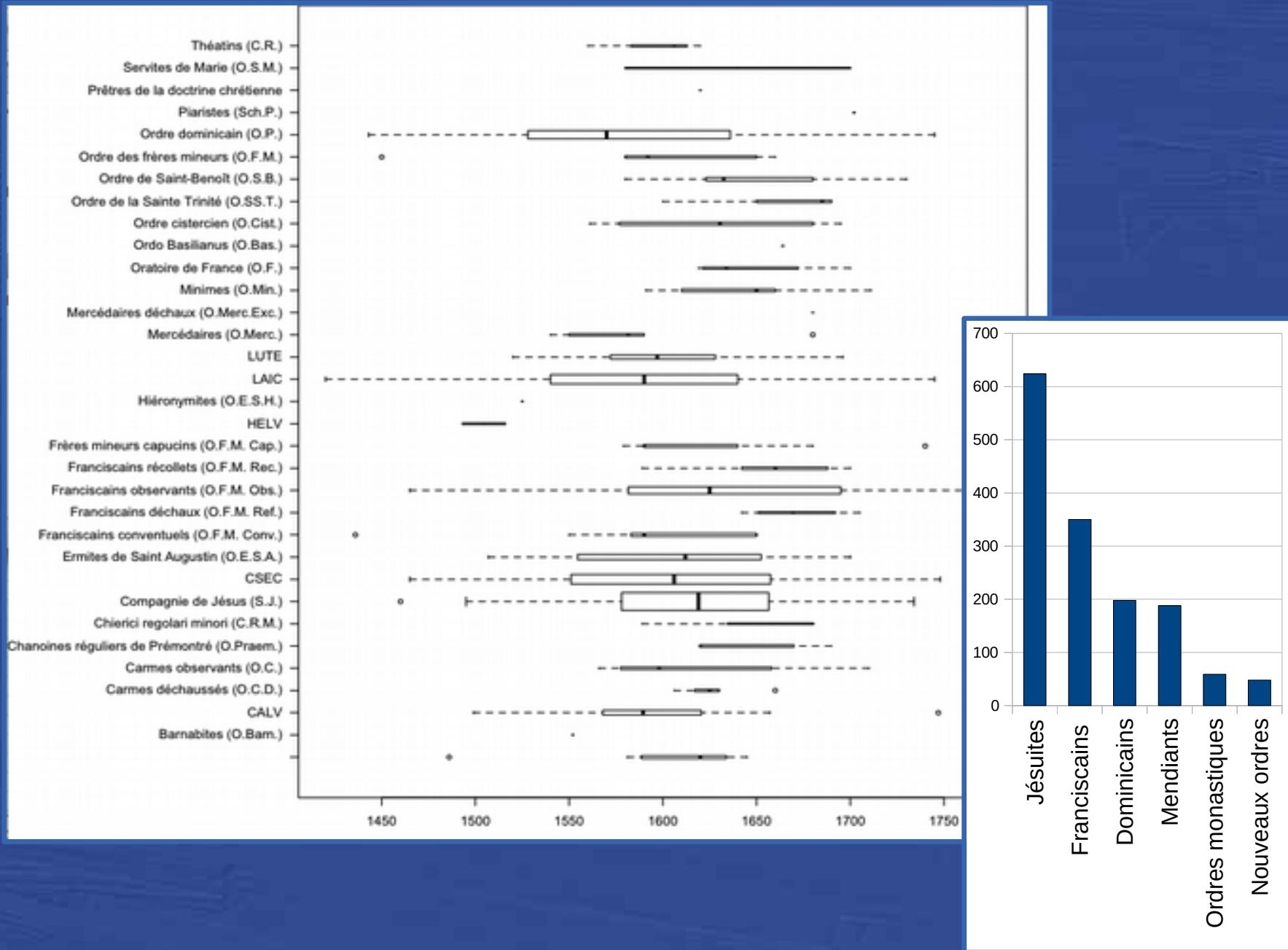
SELECT DISTINCT as1.cle_objet_associe 'idActeur', as1.libelle_calcule_objet_associe 'nom',
as2.cle_objet_associe 'idLieu', as2.libelle_calcule_objet_associe as 'lieu', as2.longitude as 'longi',
as2.latitude as 'lat'
FROM web_talker_symogih.vue_association as1, web_talker_symogih.vue_association as2,
vues_bhp.acteurs_scholasticon acsc,
web_talker_symogih.vue_association as3, web_talker_symogih.vue_information inf
WHERE
/* jointure*/
as1.cle_objet_associe = acsc.CFAC AND as2.cle_etran_Info = as1.cle_etran_Info
AND as3.cle_objet_associe = as1.cle_objet_associe AND inf.cle_Info = as3.cle_etran_Info
/*selection*/
AND as1.cle_etran_TyRo = 'TyRo40'
AND as3.cle_etran_TyRo = 'TyRo12'

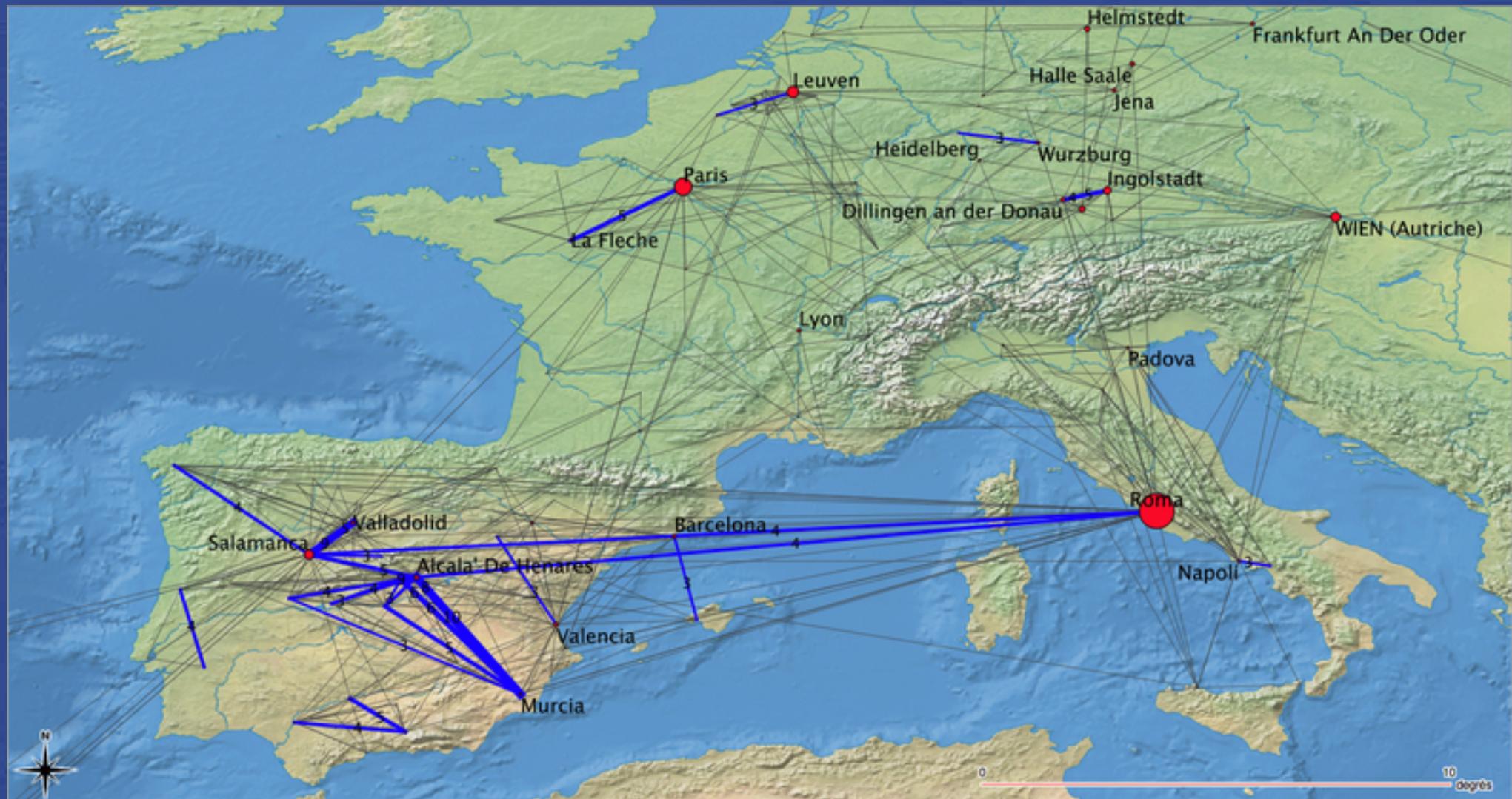
```

The screenshot shows a MySQL Workbench interface with a query editor window titled "Statement 1". The query is a complex SQL statement involving multiple joins and WHERE clauses to filter data for specific project participants based on their research agenda. The results are displayed in a table with columns: cle_acteur, nom, cle_Info, date_debut, cle_lieu, lieu, long, and lat. The table contains approximately 20 rows of data, mostly from the 16th century, listing names like Bocanus, Martin; Caramuel Lobkowitz, Juan; Gassendi, Pierre; Hoderici, Giovanni Battista; etc., along with their associated locations and coordinates.

cle_acteur	nom	cle_Info	date_debut	cle_lieu	lieu	long	lat
Actr38	Bocanus, Martin	Info31818		NaP12501	Köln	6.934722222222222	50.94222222222222
Actr65	Caramuel Lobkowitz, Juan	Info31980		NaP190258	Palazuelos	-2.683333333333333	41.08333333333333
Actr88	Caramuel Lobkowitz, Juan	Info31981		NaP10027	Salamanca	-5.656388888888889	40.966666666666667
Actr164	Gassendi, Pierre	Info32430		NaP71971	Aix	3.30596	50.4968
Actr187	Hoderici, Giovanni Battista	Info33117		NaP13680	Ragusa	14.731944444444444	36.925833333333333
Actr272	Nifo, Agostino	Info34073	1514	NaP13697	Roma	12.490277777777778	41.895277777777778
Actr314	Ruyneau, Théophile	Info34673		NaP11998	Lyon	4.835833333333333	45.766666666666667
Actr349	Spina, Bartolomeo	Info35036		NaP190265	Italie	12,60	42,50
Actr354	Suárez, Francisco	Info35079	1570	NaP48	Espagne (Royaume d')	-4	40
Actr400	Fracastoro, Gerolamo	Info32381		NaP190265	Italie	12,60	42,50
Actr405	Arriaga, Rodrigo de	Info31727		NaP110124	Valladolid	-4,721388888888889	41.650277777777778
Actr405	Arriaga, Rodrigo de	Info31728		NaP11253	PRAHA (PRAGUE)	14.456388888888889	50.105833333333333
Actr457	Spinola, Stefano	Info35039		NaP12229	Genova	8.933611111111111	44.406111111111111
Actr537	Du Hamel, Jean Baptiste	Info32249		NaP12085	Paris	2.348611111111111	48.853333333333333
Actr562	Bagot, Jean	Info31761		NaP190265	Italie	12,60	42,50
Actr624	Wittich, Christoph	Info35546		NaP4251	Nijmegen	5.858055555555556	51.8225
Actr809	Comenius, Johann Amos	Info32115	1628	NaP190262	Lezno	18.433333333333333	54.35
Actr809	Comenius, Johann Amos	Info32116		NaP14724	Eiblag	19.405277777777778	54.156886888888889
Actr809	Comenius, Johann Amos	Info32117		NaP13152	Sarospatak	21.571111111111111	48.321944444444444
Actr810	Major, John	Info33643	1518	NaP11689	Glasgow	-4.269722222222222	55.862777777777778
Actr810	Major, John	Info33644		NaP90085	St. Andrews	-2.798888888888889	56.338611111111111
Actr1505	Eschenbach, Johann Christian	Info32297		NaP12497	Kiel	10.120555555555556	54.325277777777778

SQL queries to extract data corresponding to the research agenda of each project participant





Project specific websites

The screenshot shows the homepage of the 'PATRONS DE FRANCE' website. The header features a dark blue navigation bar with the site's name and a grid of small portraits of historical figures. Below the header is a secondary navigation bar with links to 'Accueil', 'Le corpus', 'Aide à la consultation', 'Consultation', 'Sources dépouillées', and 'Contributeurs'. A sidebar on the left contains sections for 'Accès rapide à la base' (with links to Patrons, Institutions, Caractères sociaux, and Lieux) and 'Contributions et contact' (with a message about missing entries). The main content area displays a search form for 'Nom, prénom' (containing 'Acher'), 'Année de naissance' (equal to '1862'), and 'Lieu de naissance' (containing 'Le Havre'). Below the search form is a table listing ten patrons, each with their name, gender, birth year, birth place, and death year if known.

Nom, prénom	Genre	Année de naissance	Lieu de naissance	Année de décès
Acher, Maximilien	Homme	1862	Le Havre	1929
Acolas, Prosper	Homme	1838	Saint-Bonnet-Tronçais	1928
Adam, Alcide	Homme	1864	Fermières	1931
Adam, Désiré	Homme	1859	Saint-Paul-du-Vernay	1929
Adenot, Henri	Homme	1904		1947
Ader, Clément	Homme	1841	Muret	1925
Adher, Pierre	Homme	1884		1955
Adnet, Aloïse	Homme	1848	Châlons-en-Champagne	1927
Agache, Donat	Homme	1882	Lille	1929
Agache, Édouard Donat Louis Joseph	Homme	1841	Lille	1923

<http://patronsdefrance.fr/>

Project specific websites



PATRONS
DE
FRANCE

SIPROJURIS

Bienvenue sur le site du projet SIPROJURIS.

Accueil Le corpus

Accès rapide à la base

- Patrons
- Institutions
- Caractères sociaux
- Lieux

Contributions et contact

Les détenteurs d'exemplaires de bulletins ou d'annuaires indiqués comme manquants dans les collections dépoillées jusqu'à maintenant sont invités à nous contacter en envoyant un message à patronsdefrance@ish-lyon.cnrs.fr.



**Système d'Information
Patrons et Patronat
Français**

**CODE
UNIVERSITAIRE
OU
LOIS ET STATUTS
DE L'UNIVERSITÉ ROYALE DE FRANCE**



<http://siprojuris.symogih.org>

General symogih.org project websites

The screenshot shows the homepage of the SyMoGIH website. The header is yellow with the text "SYMOGIH" and "Références". Below the header are three tabs: "Accueil" (selected), "Documentation", and "Membres". On the left, there are three sidebar boxes: "Références" (with links to Arborescence des classes, Types d'informations, and Types de contenus), "Objets" (with links to Acteurs, Acteurs collectifs, Objets abstraits, and Caractères sociaux), and "Sites propulsés par SyMoGIH" (with a link to GEO-LARHRA). The main content area has a title "Système Modulaire de Gestion de l'Information Historique (SyMoGIH)" and a section "Le projet" containing text about the project's development of a generic storage model for historical data. It also describes the platform for research in history and its role in geographical information systems. Below this is a section "La plateforme permet :" with a bulleted list starting with "la modélisation progressive et évolutive de l'information historique grâce à un dictionnaire de types d'unités de connaissance ;". A large blue box at the bottom contains the URL <http://symogih.org>.

Système Modulaire de Gestion de l'Information Historique (SyMoGIH)

Le projet

Le projet SyMoGIH a développé un modèle générique de stockage des données historiques permettant leur interopérabilité et leur publication sélective. A partir de ce modèle, une plateforme collaborative pour la recherche en histoire a été mise en place, utilisée par plusieurs chercheurs et projets.

Cette plateforme permet le stockage de données primaires concernant toute activité humaine (sociale, économique, intellectuelle, ...), de textes codés en XML (traités selon le standard proposé par la [Texte Encoding Initiative](#)), d'images et de leur métadonnées, tout en permettant d'associer à ces différents objets leur 'empreinte spatiale'. La réalisation d'un [système d'information géographique \(SIG\)](#) joue un rôle essentiel dans le projet.

La plateforme permet :

- la modélisation progressive et évolutive de l'information historique grâce à un dictionnaire de types d'unités de connaissance ;
-
-

<http://symogih.org>

GEO-LARHRA

Se connecter

Partage de ressources géo-historiques

Accueil

Présentation

Gazetteer

Géocatalogue

Atlas historique

Consulter l'Atlas Historique

- Territoires historiques de l'Europe
- Présentation de l'atlas



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<http://geo-larhra.ish-lyon.cnrs.fr/>

Use the web of data for historical research

Evolution des territoires en Italie

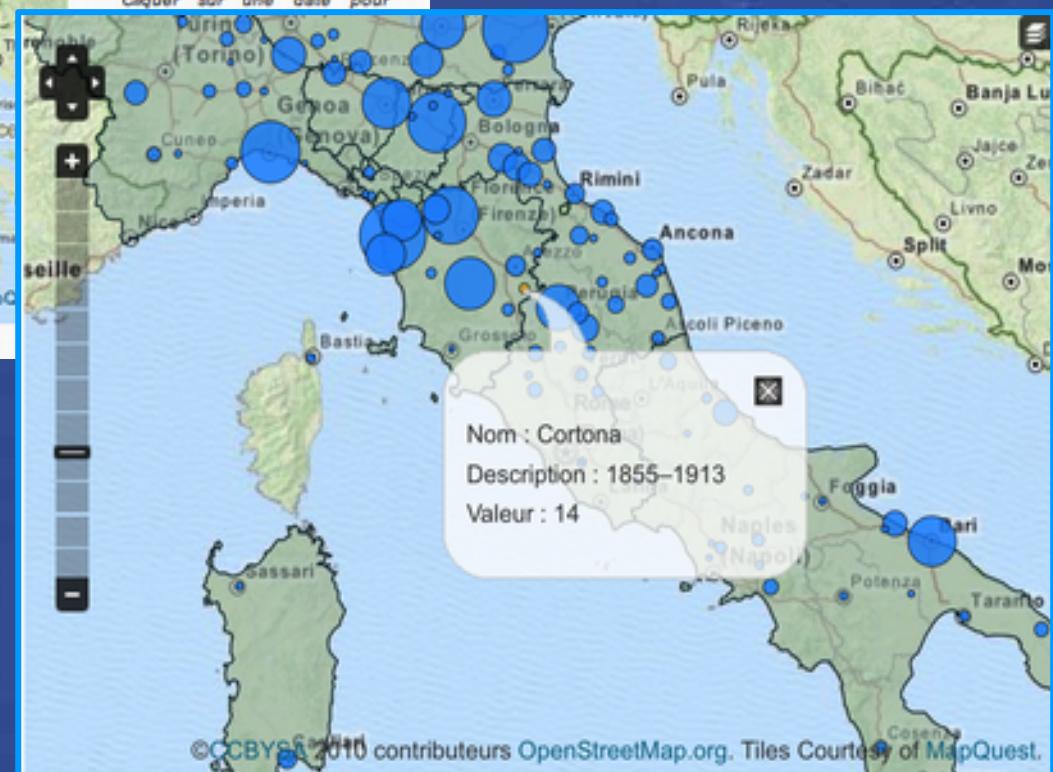
Site expérimental. Données non exhaustives, en cours de production.



Dates significatives

- 1815-06-09
- 1829-12
- 1847-12
- 1859-11-10
- 1860-03-24
- 1860-11-05
- 1861-03-17
- 1866-10-03
- 1870-10-02
- 1920-11-12
- 1929-02-11
- 1947-02-10

Cliquer sur une date pour



SPARQL – endpoint B3Kat

Bayerische Staatsbibliothek, Bibliotheksverbund Bayern, Kooperative Bibliotheksverbund Berlin-Brandenburg

<http://lod.b3kat.de/sparql>

Resources interlinking

- provide a stable URI:
<http://symogih.org/resource/Actr195>
- provide a human-readable resource description
- dereference the resource representation
- interlink resources

<http://symogih.org/resource/Actr195>

SYMOGIH

Références

Accueil

Documentation

Membres

Références

- Arborescence des classes de types d'unités de connaissances
- Types d'informations
- Types de contenus

Objets

- Acteurs
- Acteurs collectifs
- Lieux

<http://symogih.org/resource/Actr195>

Kepler, Johannes

Actr195

Année de naissance: 1571 - Année de mort: 1630

Biographie – documentation

Biographie

Informations

Contenus

Carte

Liens

DBpedia Live – URL de ressource : [Johannes_Kepler](#)

Autorités BnF – URL autorité d'adressage : [cb11909597m](#)

Idref – URL autorité d'adressage : [026947676](#)

Gemeinsame Normdatei (GND) – URL autorité d'adressage : [118561448](#)

Mellini, Gian Garsia - Nomination: Cardinal

Info93265

Type d'information: Nomination - TyIn6

Date: 1606-09-11

Composantes de l'information

Rôles	Textes	Sources
Libellé de l'objet	Type de rôle	Clé du rôle
Paulus V	nommer	InRo257887
Mellini, Gian Garsia	nommé (être)	InRo257885
Cardinal	destination: (être la)	InRo257886

"1606-09-11"

symogih:datation

Nomination

symogih:Info93265

symogih:Actr288

Paul V

symogih:nommer

symogih:SoCh370

Cardinal

symogih:etre_nomme

symogih:destination

symogih:sourçage

symogih:Bibl1968

DBI, vol. 73 (2009), ...

Open, modular, collaborative platform for storing, analyzing and publishing historical data and texts

Virtuoso SPARQL Query Editor

Default Data Set Name (Graph IRI)

Query Text

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX viaf: <http://viaf.org/viaf/>
PREFIX geo: <http://www.w3.org/2003/01/geo/wgs84_pos#>
PREFIX sym: <http://symogih.org/ontology/>
PREFIX syr: <http://symogih.org/resource/>

SELECT DISTINCT ?i ?stLabel ?stDate ?KUTyLabel ?KUTy
WHERE
{ { ?r sym:associatesObject syr:AbOb213 .
?r sym:isComponentOf ?i .
?i sym:knowledgeUnitStandardLabel ?stLabel ,
?i sym:knowledgeUnitStandardDate ?stDate .
?i sym:hasKnowledgeUnitType ?KUTy.
?KUTy rdfs:label ?KUTyLabel.

}
}
ORDER BY ?stDate
```

Sponging:

Use only local data (including data retrieved before), but do not update it.

Results Format:

HTML

Execution timeout:

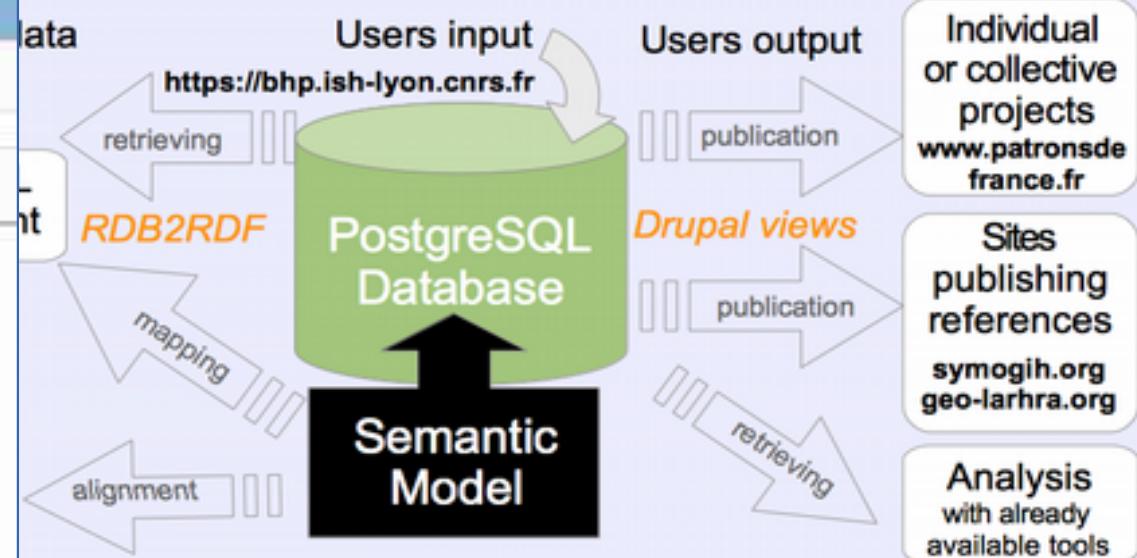
0 milliseconds (values less than 1000 are interpreted as milliseconds)

Options:

Strict checking of void variables

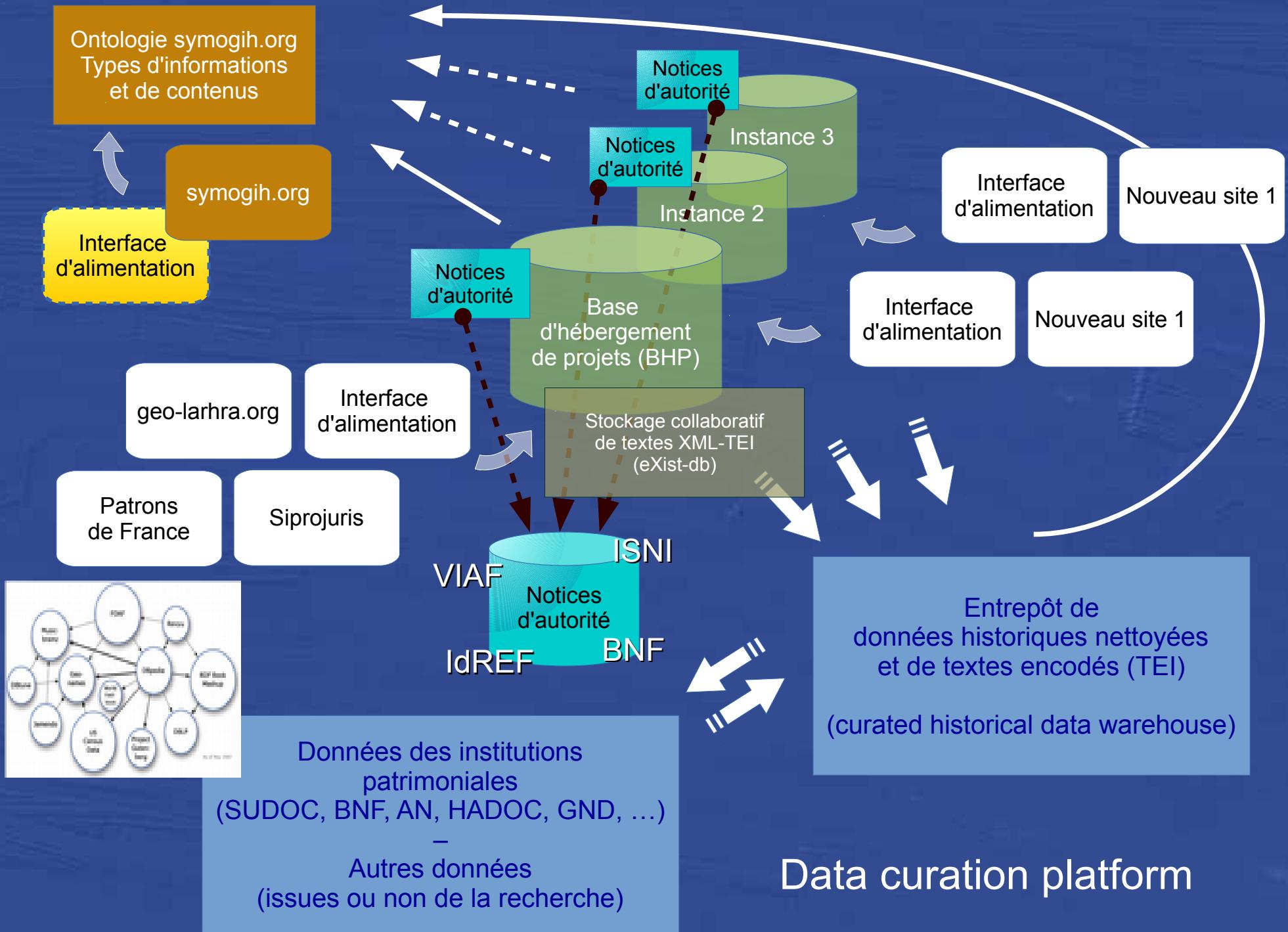
(The result can only be sent back to browser, not saved on the server, see details)

Run Query Reset



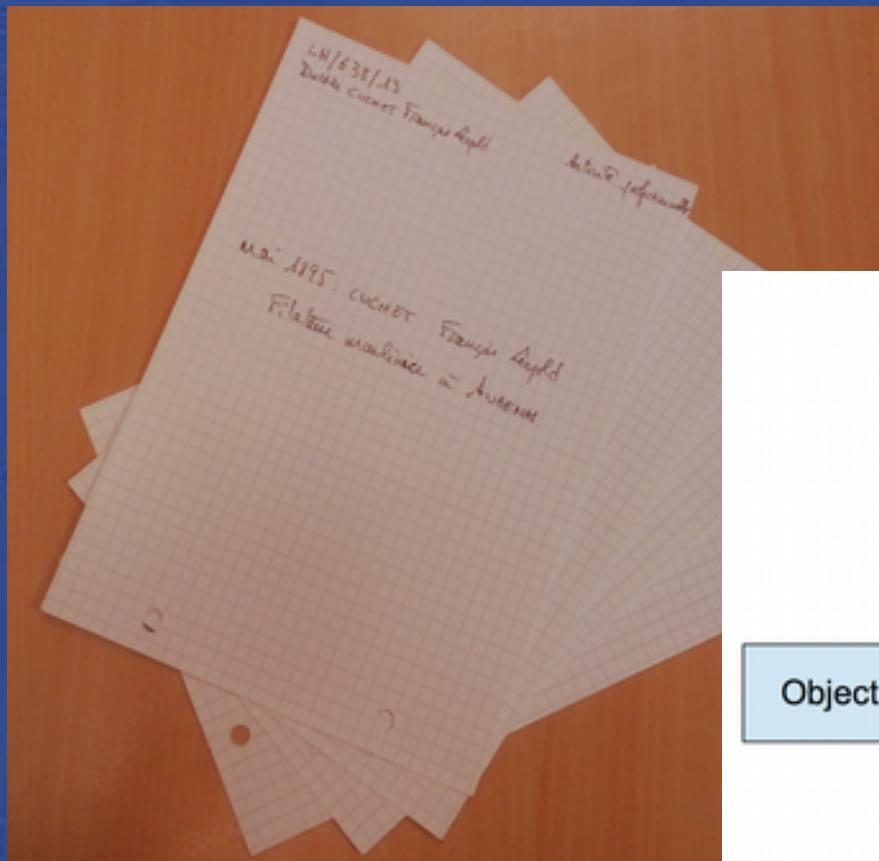
SPARQL-endpoint:

<http://symogih.org/?q=rdf-publication>

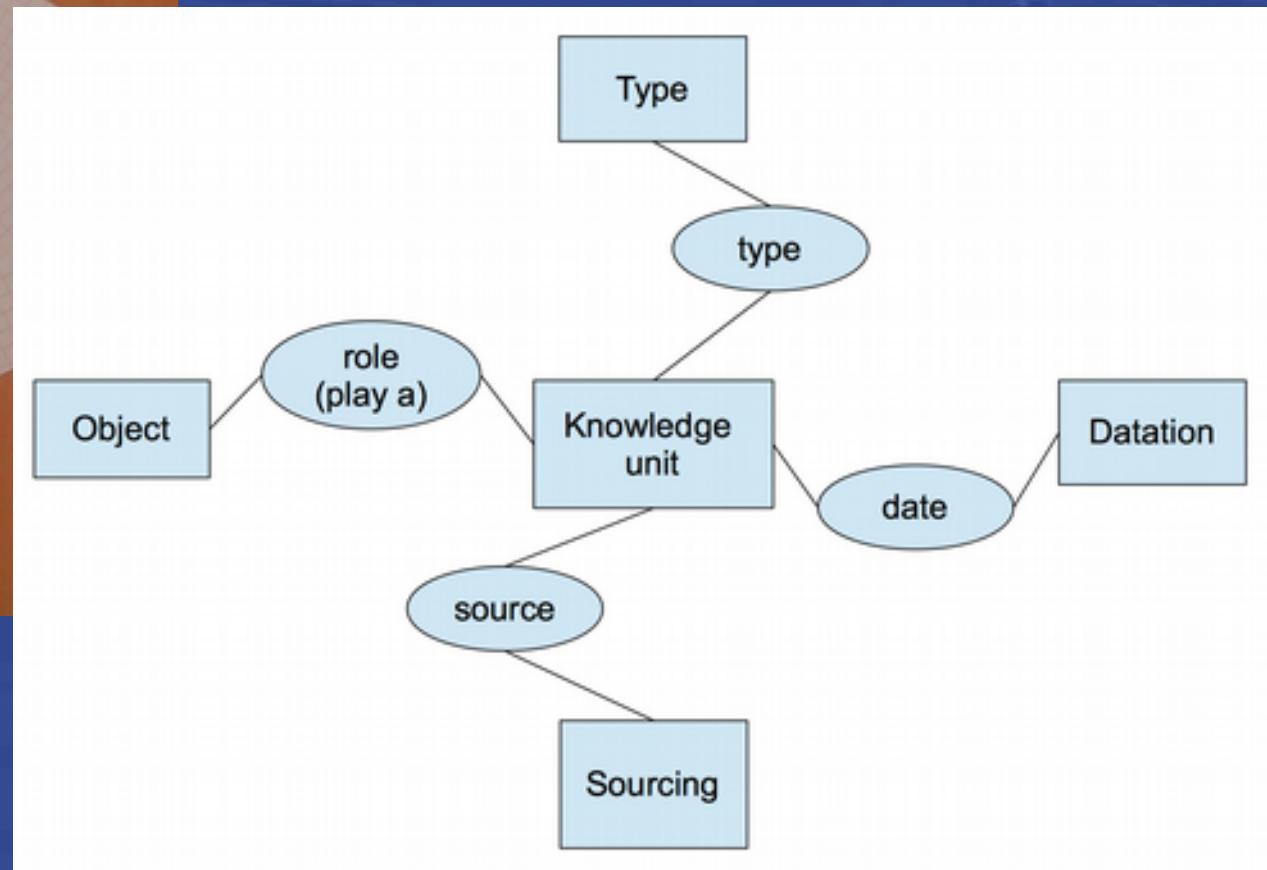


2. Producing structured historical data: the symogih.org ontology

The symogih.org generic data model : from index cards to a digital information system



Knowledge units : atomized statements expressing relationships between objects



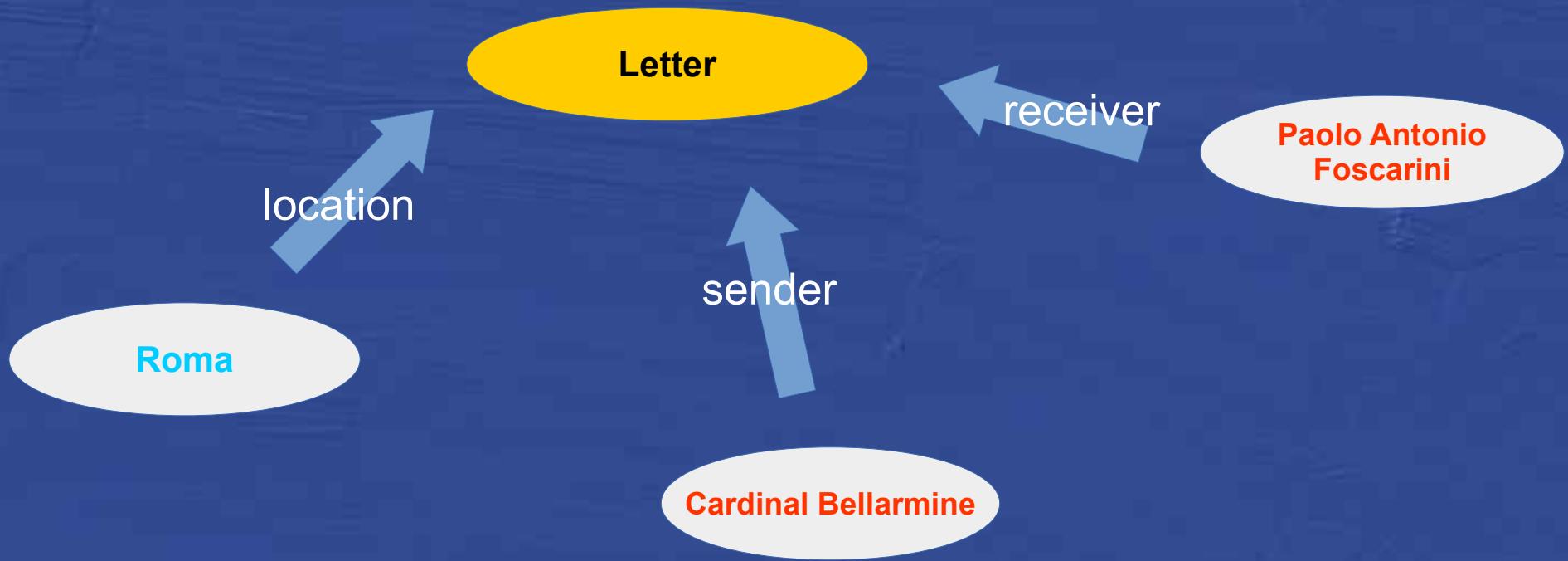
Letter by cardinal Bellarmine to Paolo Antonio Foscarini, Roma, 12 April 1615

Cardinal Bellarmine

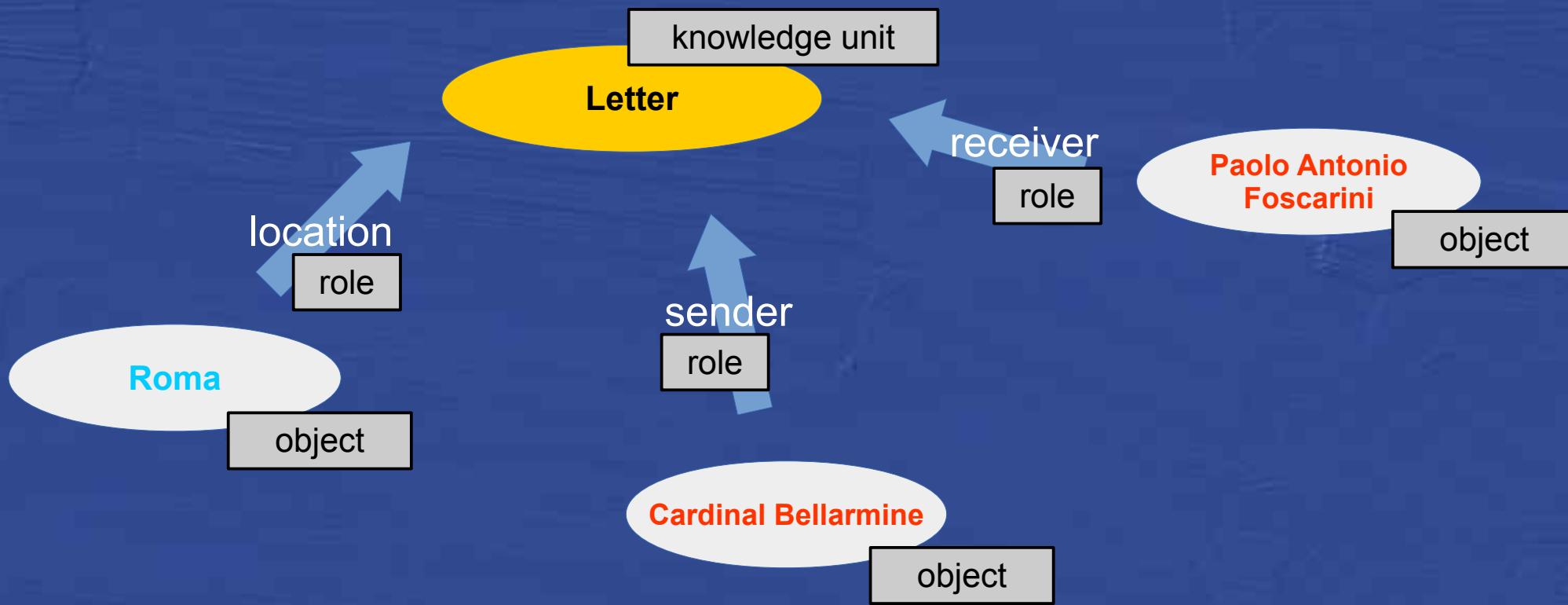
Paolo Antonio
Foscarini

Roma

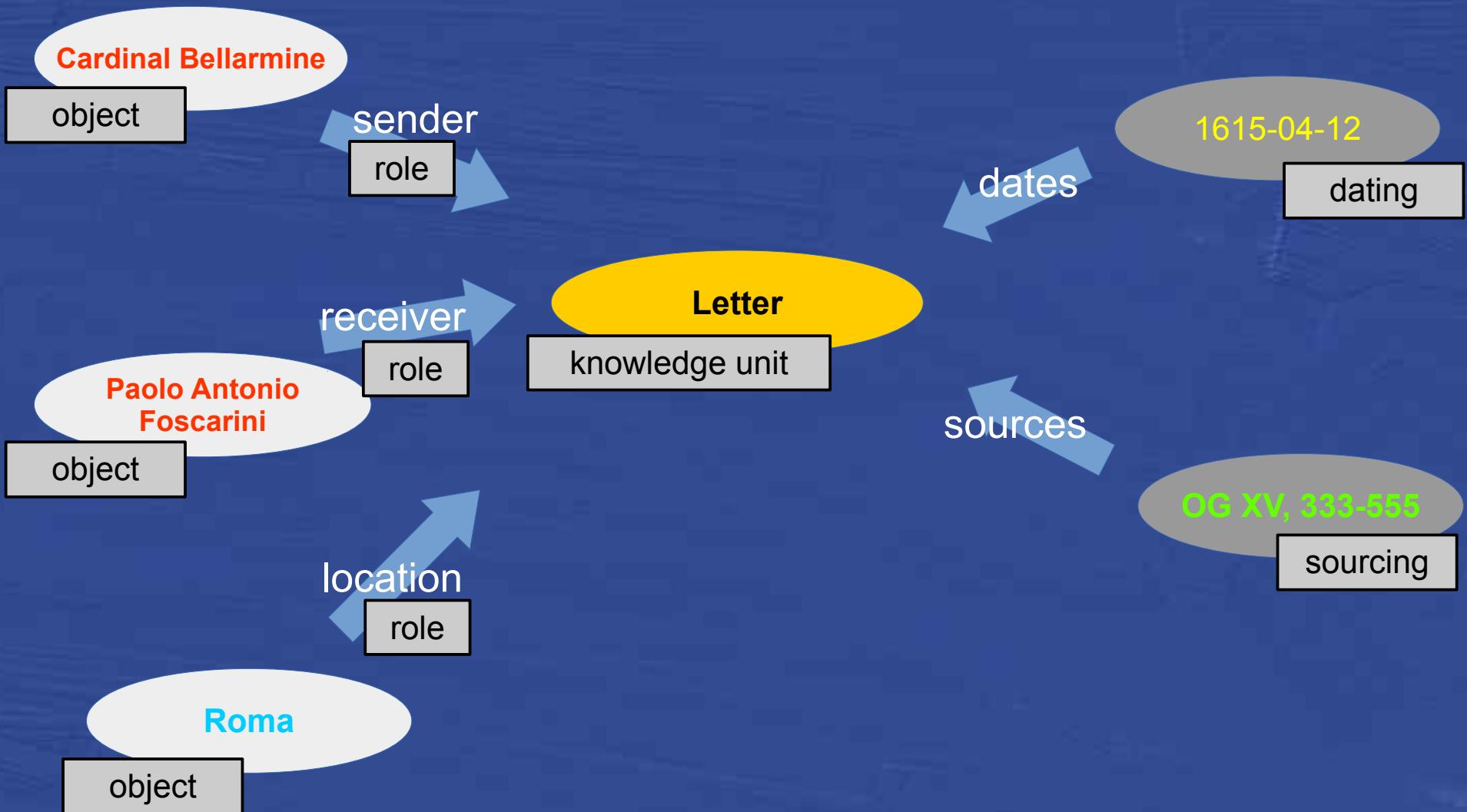
Letter by cardinal Bellarmine to Paolo Antonio Foscarini, Roma, 12 April 1615

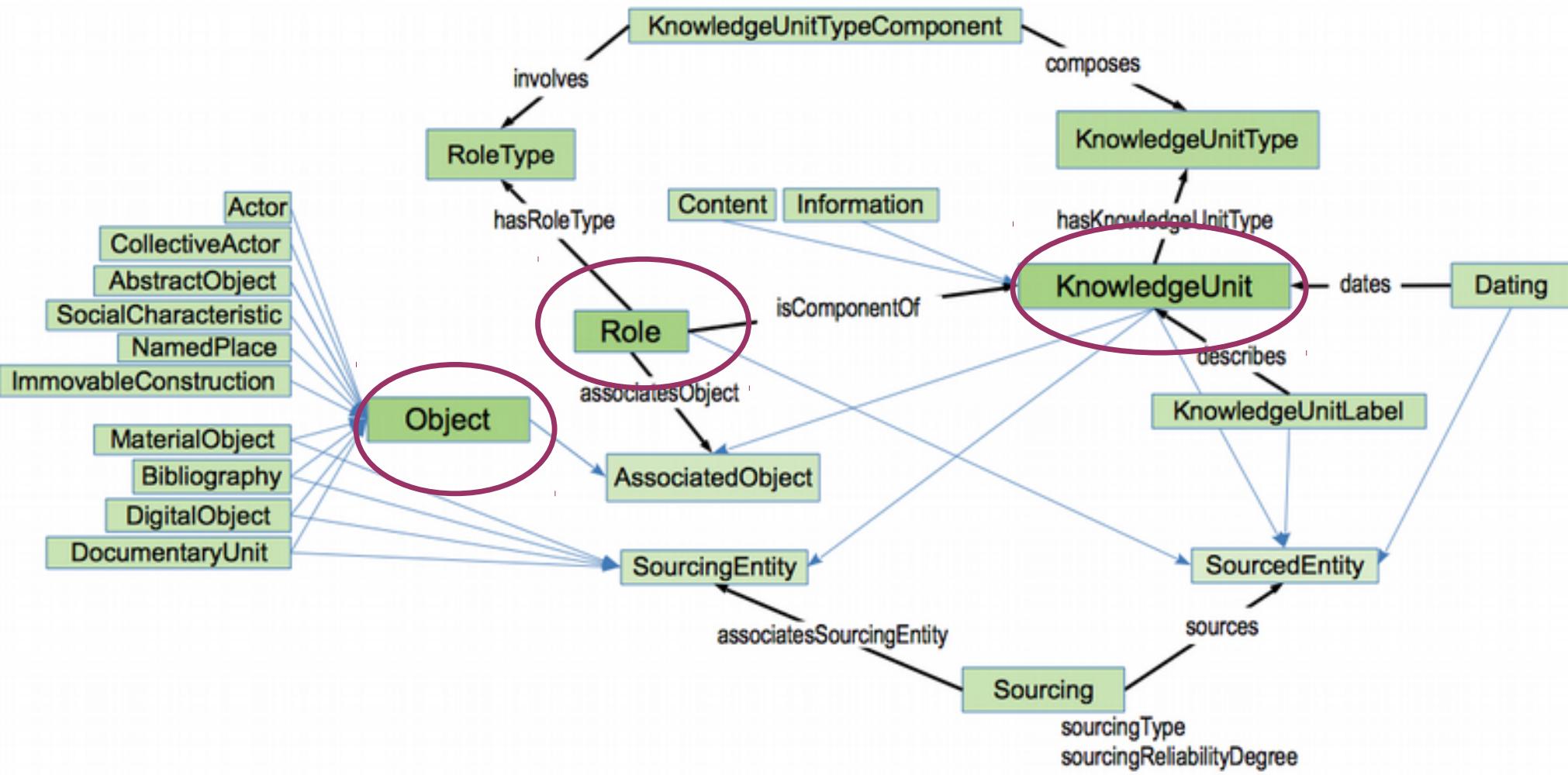


Letter by cardinal Bellarmine to Paolo Antonio Foscarini, Roma, 12 April 1615

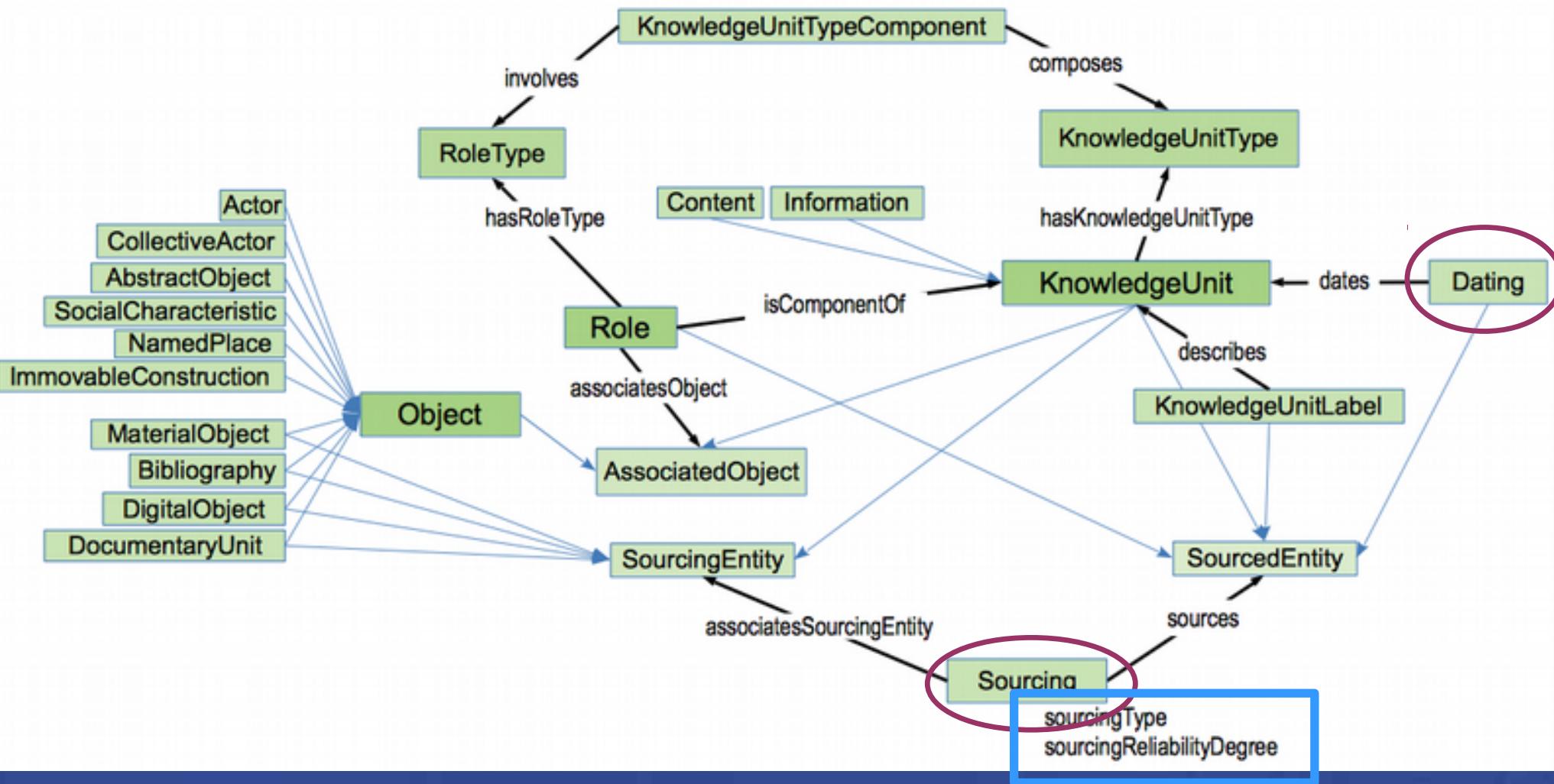


Letter by cardinal Bellarmine to Paolo Antonio Foscarini,
Roma, 12 April 1615, OG XV, 333-555



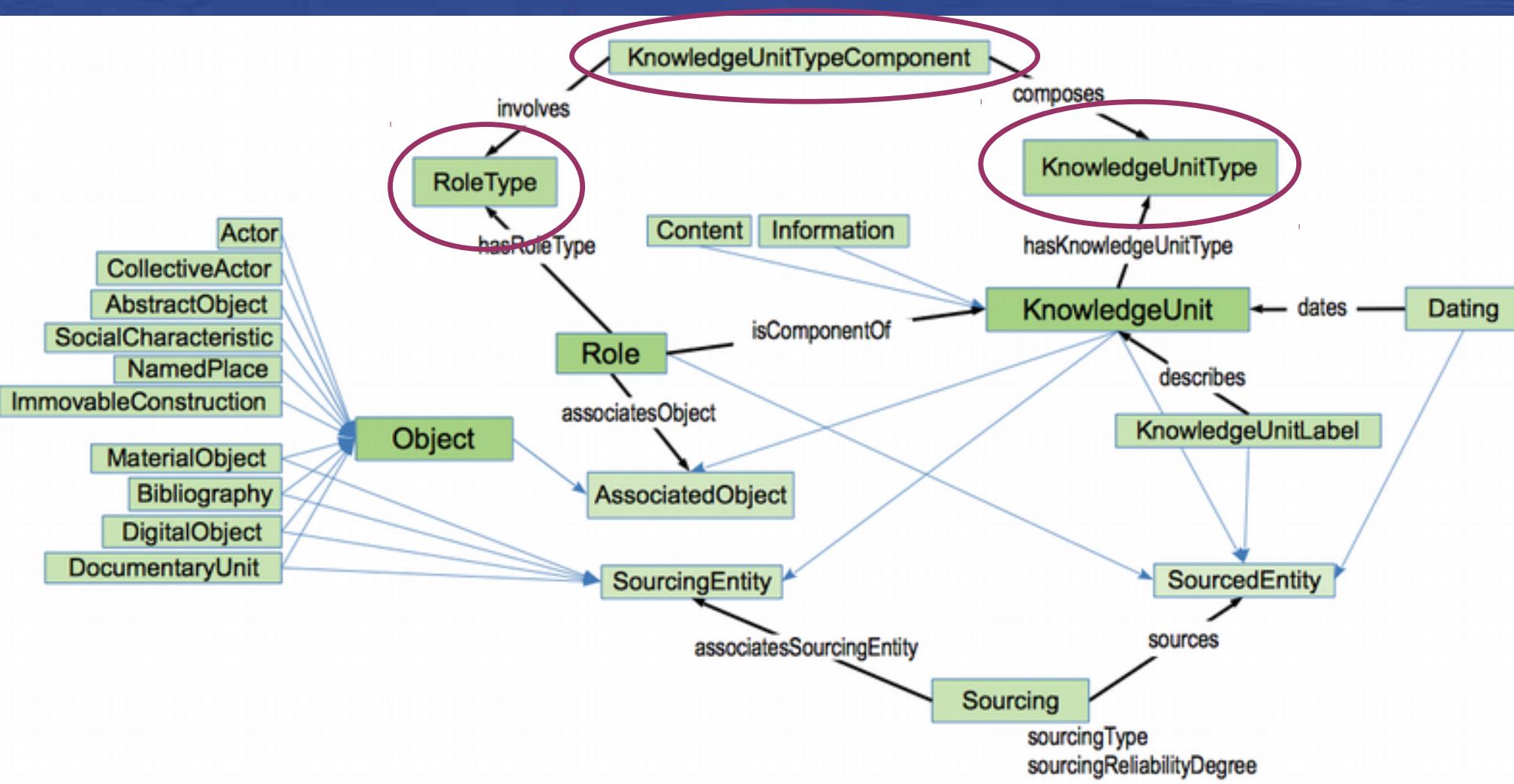


The symogih.org ontology



Dating and sourcing

The issue of historical knowledge reliability :
sourcing and historical criticism



The instances of the generic data model
are defined collaboratively

The definition of each instance of the data model is publicly available

The screenshot shows the SYMOGIH website interface. At the top, there is a yellow header bar with the logo 'SYMOGIH' and a 'Références' link. Below the header, a teal banner displays the URL 'http://symogih.org'. The main content area has a white background with a blue sidebar on the left.

Sidebar (Left):

- Références**
 - Arborescence des classes de types d'unités de connaissances
 - Types d'informations
 - Types de contenus
- Objets**
 - Acteurs
 - Acteurs collectifs
 - Objets abstraits
 - Caractères sociaux

Main Content Area:

Header: Enseignement

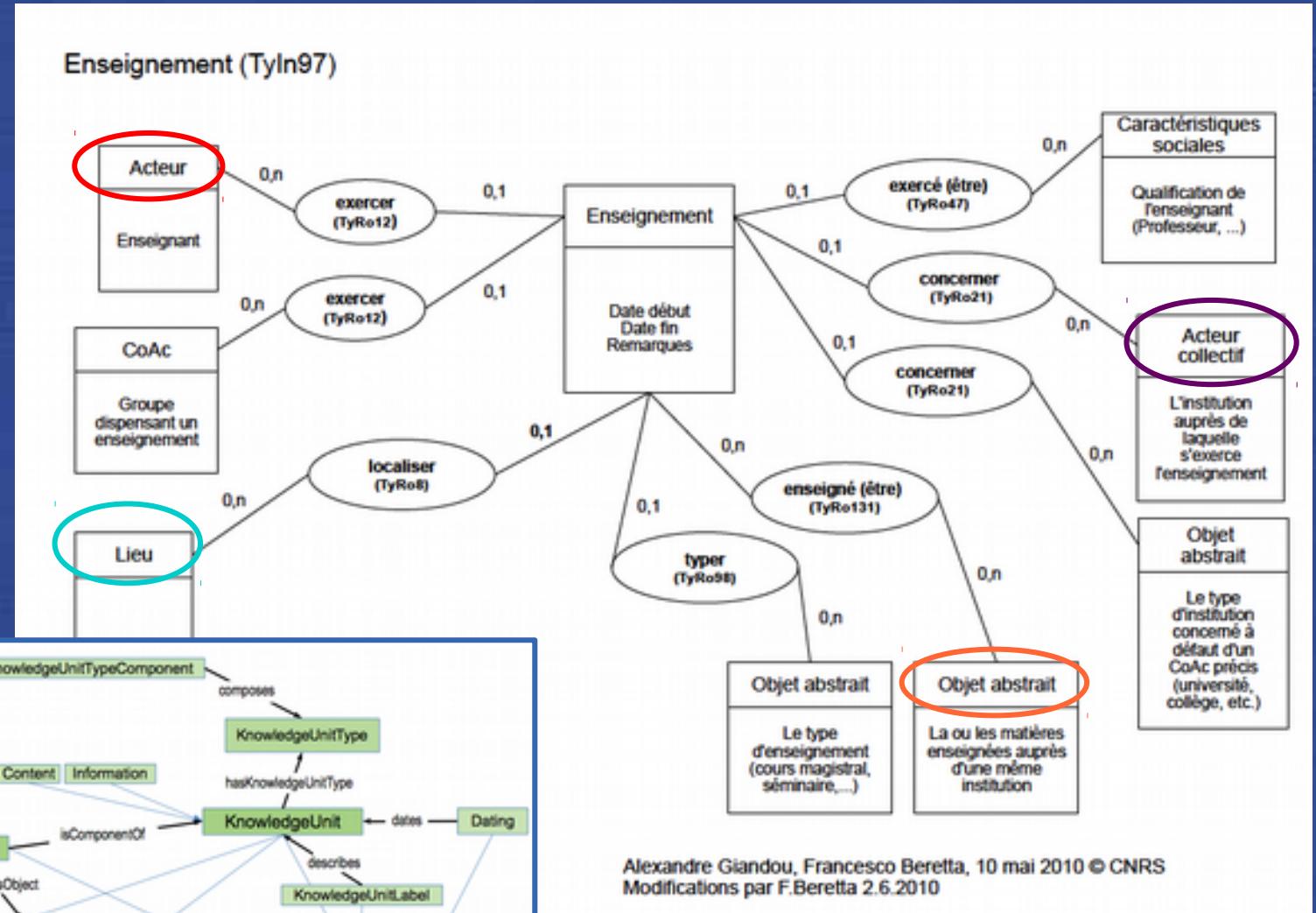
Definition: *TyIn97*
Exercer la fonction d'enseigner, avec indication de l'institution auprès de laquelle s'exerce l'enseignement et des matières enseignées.
Il s'agit d'un cas particulier du TyIn 'Exercice d'une fonction' : cf. Classe TyIn 'Exercice d'une fonction'.
Attention : ne pas renseigner le lieu si on peut localiser l'institution elle-même.

Associated Role Types: Liste des types de rôles associés

Libellé du type de rôle	Cle du TyRo	Description
concerner	TyRo21	Institution auprès de laquelle s'exerce l'enseignement. Ce rôle a été gardé pour être l'équivalent du TyIn7 : Exercice d'une fonction.
enseigné (être)	TyRo131	La matière enseignée (un objet abstrait). On peut en associer plusieurs si on enseigne en même temps plusieurs matières. En revanche, il faut créer plusieurs informations si les enseignements des différentes matières se succèdent ou si le contexte institutionnel est différent
exercé (être)	TyRo47	Qualification de l'enseignement : professeur, chargé de cours, etc. Ce rôle a été gardé pour être l'équivalent du TyIn7 : Exercice d'une fonction.
exercer	TyRo12	Ce rôle a été gardé pour être l'équivalent du TyIn7 : Exercice d'une fonction.
localiser	TyRo8	Ne pas renseigner si l'institution auprès de laquelle s'effectue l'enseignement est déjà localisée.
occasionner la fin	TyRo176	Associe l'information ou le AbOb qui explique la fin de l'enseignement
origine (être l')	TyRo16	Associe l'information (nomination, élection, ...) ou l'objet abstrait qui indiquent la cause de l'enseignement
typer	TyRo98	A utiliser dans le contexte de ce TyIn pour spécifier la nature de l'enseignement grâce à un AbOb (cours magistral, séminaire, etc.).

MCD disponible(s):
[Télécharger ce MCD](#)

« Galileo Galilei taught mathematics at the University of Padua from 1592 and 1610 » [Dizionario biografico degli italiani, vol. 51]



Galileo Galilei taught mathematics at the University of Padua from 1592 and 1610

BHP - Interface de gestion des données

Unités de connaissance

Acteurs
Acteurs collectifs
Caractères sociaux
Objets abstraits
Objets concrets
Objets digitaux
Bibliographie
Unités documentaires

ce d'alimentation de la Base
jet.

Actr : Galilei, Galileo

AbOb: Mathématiques

CoAc: Université de Padoue

Source : Dizionario biografico degli italiani, vol. 51

Références

- Arborescence des classes de types d'unités de connaissances
- Types d'informations
- Types de contenus

Objets

- Acteurs
- Acteurs collectifs
- Lieux
- Objets abstraits
- Caractères sociaux
- Formes concrètes

Galilei, Galileo - Enseigne : Mathématiques, auprès de : Université de Padoue

Info94542

Type d'information: [Enseignement](#) - TyIn97

Date: 1592

Composantes de l'information

[Rôles](#)[Textes](#)[Sources](#)

Libellé de l'objet	Type de rôle	Cle du rôle
Galilei, Galileo	exercer	InRo261100
Université de Padoue	concerner	InRo261101
Mathématiques	enseigné (être)	InRo261102

Galileo Galilei taught mathematics at the University of Padua from 1592 and 1610

A knowledge unit in form of structured data :

The screenshot shows a knowledge management interface with the following details:

- Title:** Galilei, Galileo - Enseigne : Mathématiques, auprès de : Université de Padoue
- Type d'information:** **enseignement + TyIn97** (highlighted with a red oval)
- Date:** 1592
- Composantes de l'information:** Roles, Textes, Sources
- Table:** L'ensemble des rôles (3 rows)
 - Galileo Galilei: enseignant (litt.)
 - Université de Padoue: enseignant (litt.)
 - Mathématiques: enseignant (litt.)

Encoding historical data in XML using the symogih.org ontology :

```
<p corresp="Info94542">In <date when="1592" ana="AbOb1321">1592</date>,
<rs ref="Actr161">he</rs> [Galileo Galilei] moved to the <name
ref="CoAc54">University of Padua</name> where he taught geometry,
mechanics, and astronomy until <date when="1610"
ana="AbOb256">1610</date>. </p>

<p ana="TyIn97">In <date when="1592" ana="AbOb1321">1592</date>, <rs
ref="Actr161" ana="TyRo12">he</rs> [Galileo Galilei] moved to the
<name ref="CoAc54" ana="TyRo21">University of Padua</name>
where he taught <name ref="AbOb279" ana="TyRo131">geometry</name>,
<name ana="TyRo131">mechanics</name>, and <name
ref="AbOb239" ana="TyRo131">astronomy</name> until <date
when="1610" ana="AbOb256">1610</date>. </p>
```

A knowledge unit in form of structured data :

Galilei, Galileo - Enseigne : Mathématiques, auprès de :
Université de Padoue

Type d'information : **TyIn97**
Date: 1592

Composantes de l'information

Rôles Textes Sources

Liste de l'objet

Type de rôle

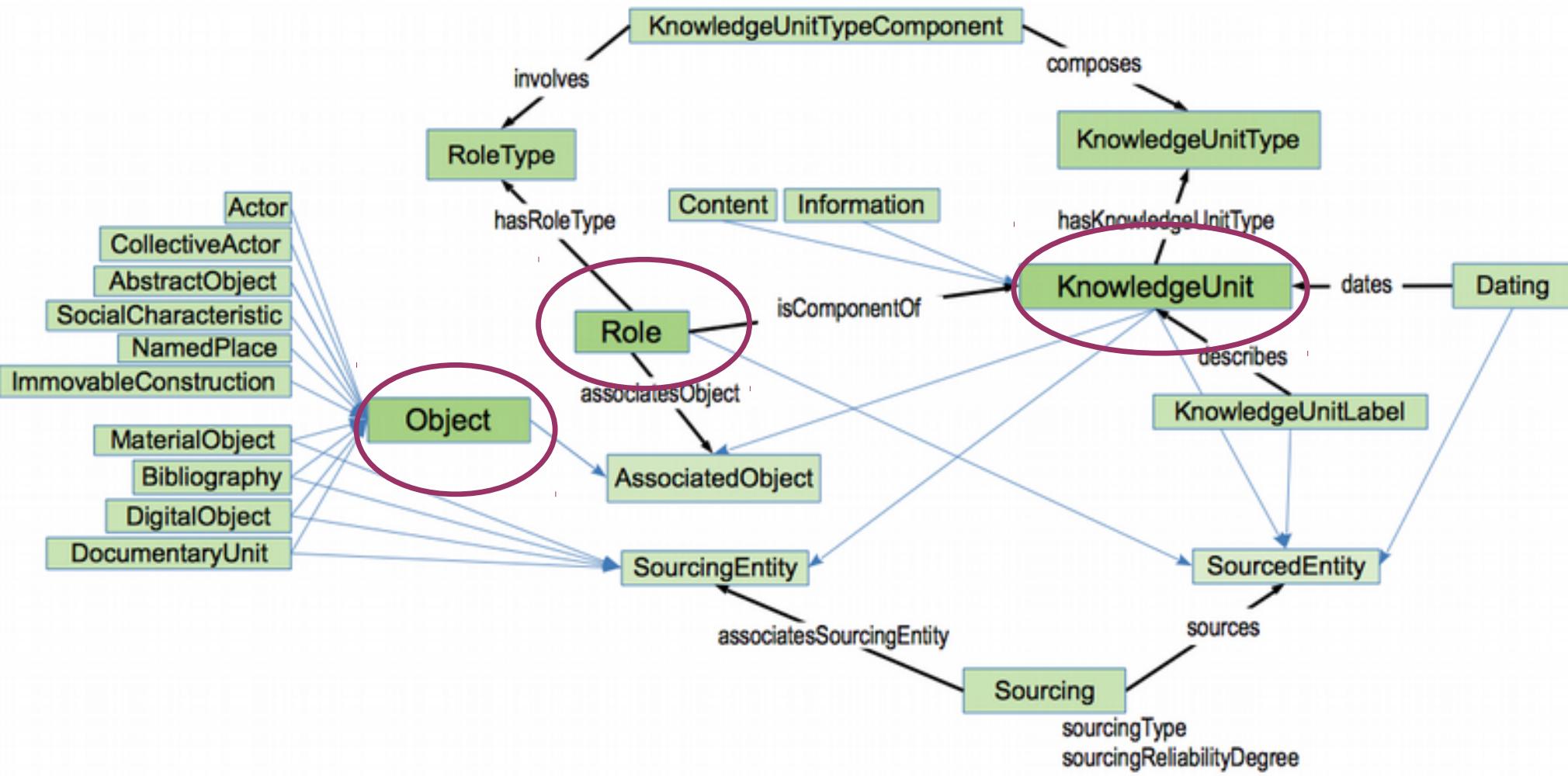
Gé du rôle

Encoding historical data in XML using the symogih.org ontology :

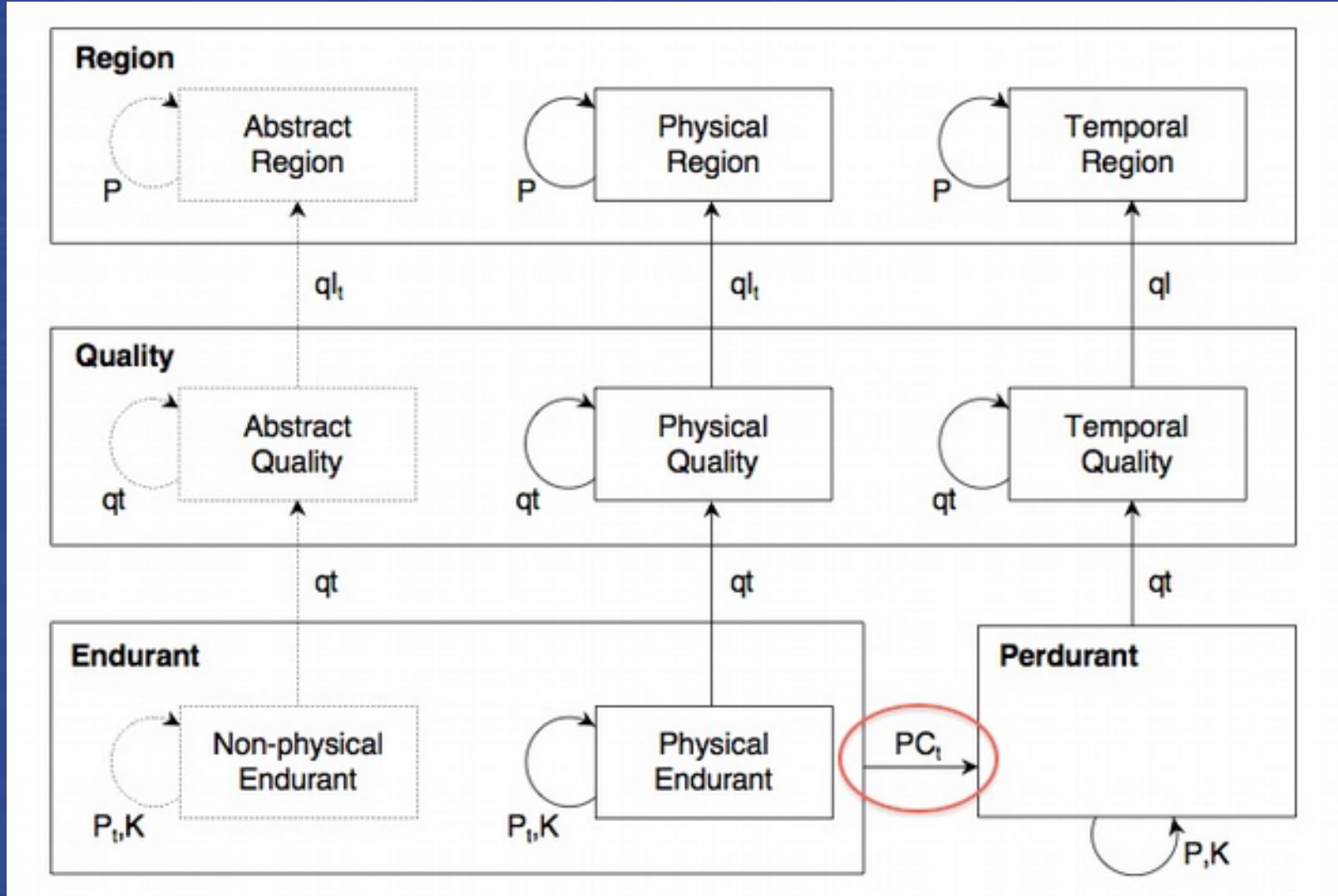
```
<p corresp="Info94542">In <date when="1592" ana="AbOb1321">1592</date>,
<rs ref="Actr161">he</rs> [Galileo Galilei] moved to the <name
ref="CoAc54">University of Padua</name> where he taught geometry,
mechanics, and astronomy until <date when="1610"
ana="AbOb256">1610</date>. </p>

<p ana="TyIn97">In <date when="1592" ana="AbOb1321">1592</date>, <rs
ref="Actr161" ana="TyRo12">he</rs> [Galileo Galilei] moved to the
<name ref="CoAc54" ana="TyRo21">University of Padua</name>
where he taught <name ref="AbOb279" ana="TyRo131">geometry</name>,
<name ana="TyRo131">mechanics</name>, and <name
ref="AbOb239" ana="TyRo131">astronomy</name> until <date
when="1610" ana="AbOb256">1610</date>. </p>
```

3. The symogih.org ontology : CIDOC – CRM compatible ?

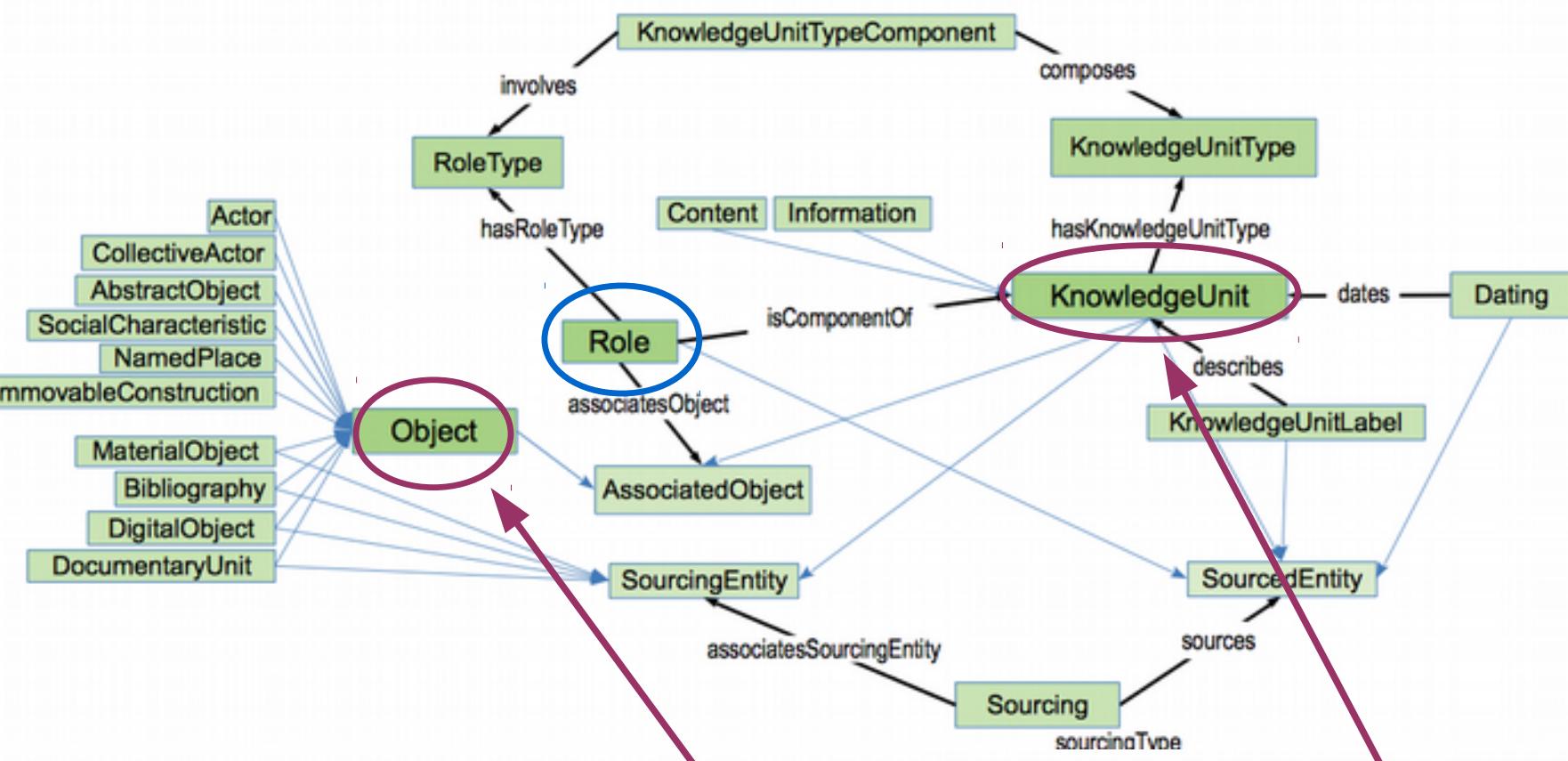


The symogih.org ontology



DOLCE (Descriptive Ontology for Linguistic and Cognitive Engineering)

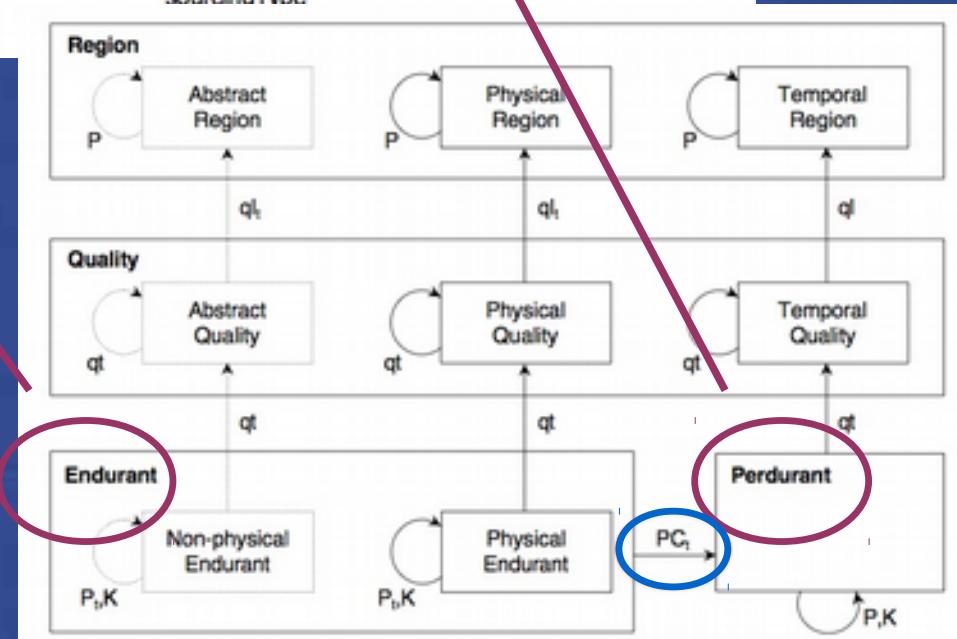
« has a clear cognitive bias,
in the sense that it aims at capturing the ontological categories underlying
natural language and human common-sense »

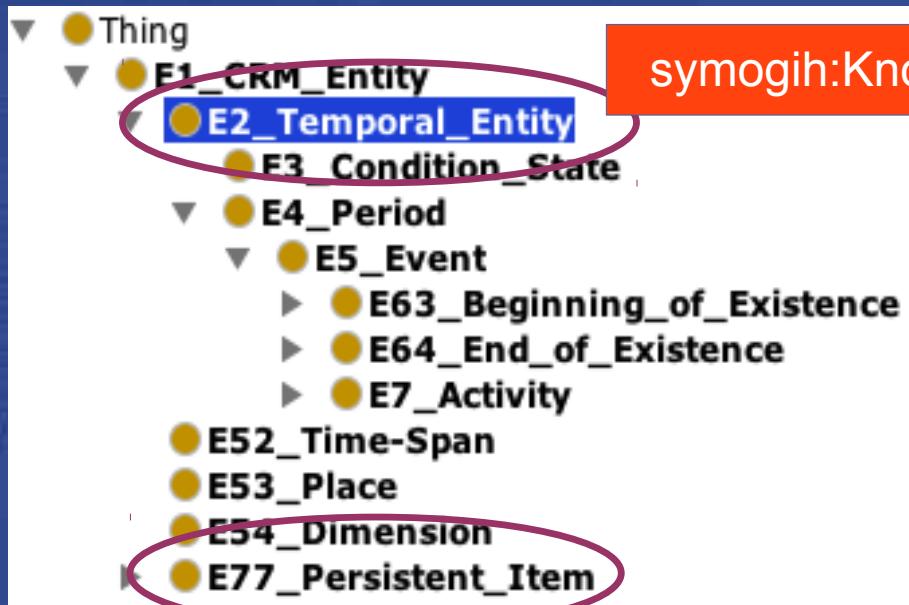


Endurants (*continuants*) are wholly present (i.e., all their proper parts are present) at any time they are present.

Perdurants (*occurrents*) : entities that *happen in time*

[DOLCE]





symogih:KnowledgeUnit / dolce:Perdurant



comment [language: en]

symogih:Object / dolce:Endurant

Scope note:

This class comprises all phenomena, such as the instances of E4 Periods, E5 Events and states, which happen over a limited extent in time.

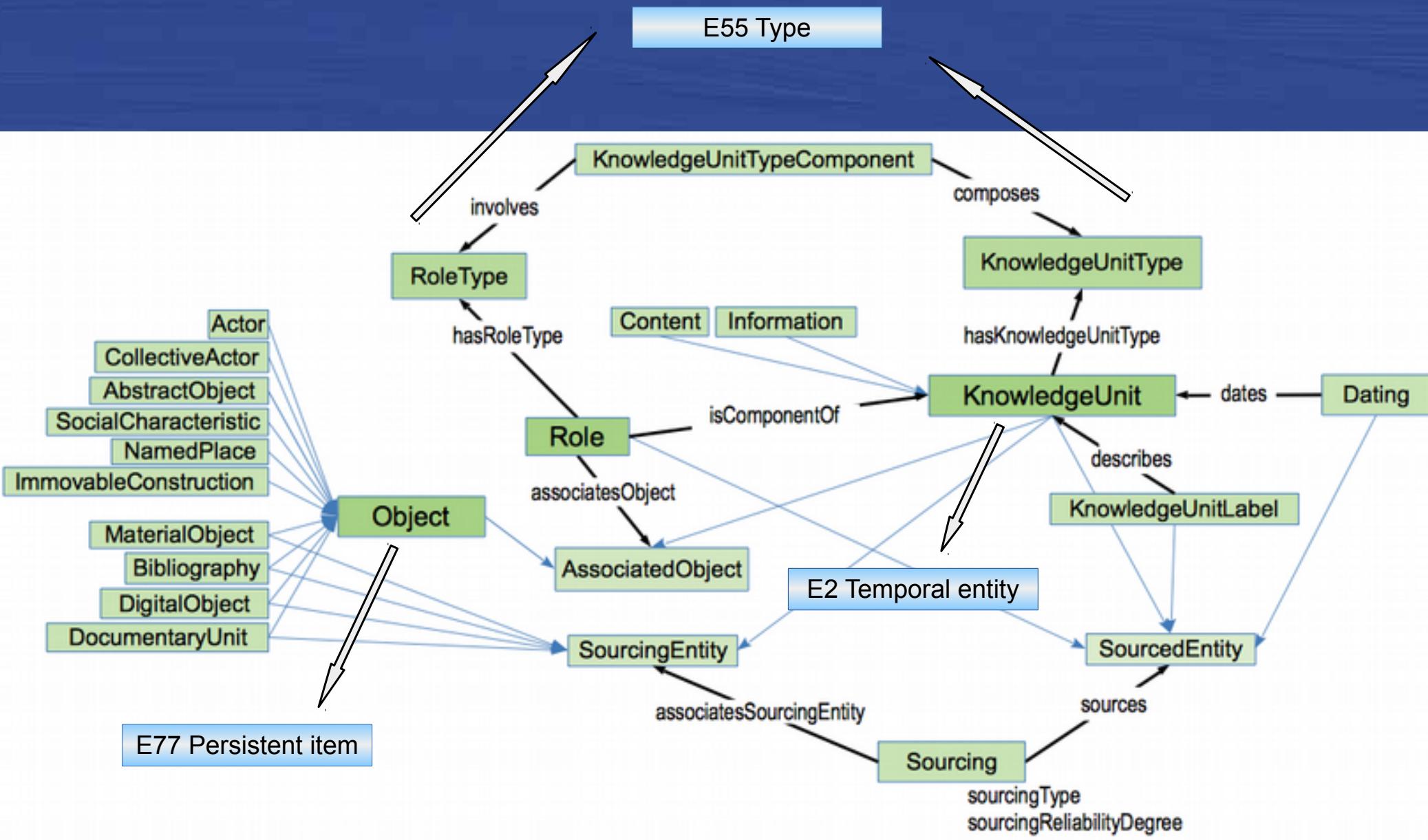
In some contexts, these are also called perdurants. This class is disjoint from E77 Persistent Item. This is an abstract class and has no direct instances. E2 Temporal Entity is specialized into E4 Period, which applies to a particular geographic area (defined with a greater or lesser degree of precision), and E3 Condition State, which applies to instances of E18 Physical Thing.

Examples:

- Bronze Age (E4)
- the earthquake in Lisbon 1755 (E5)
- the Peterhof Palace near Saint Petersburg being in ruins from 1944 – 1946 (E3)

CIDOC Conceptual Reference Model (CRM)

<http://cidoc-crm.org/>



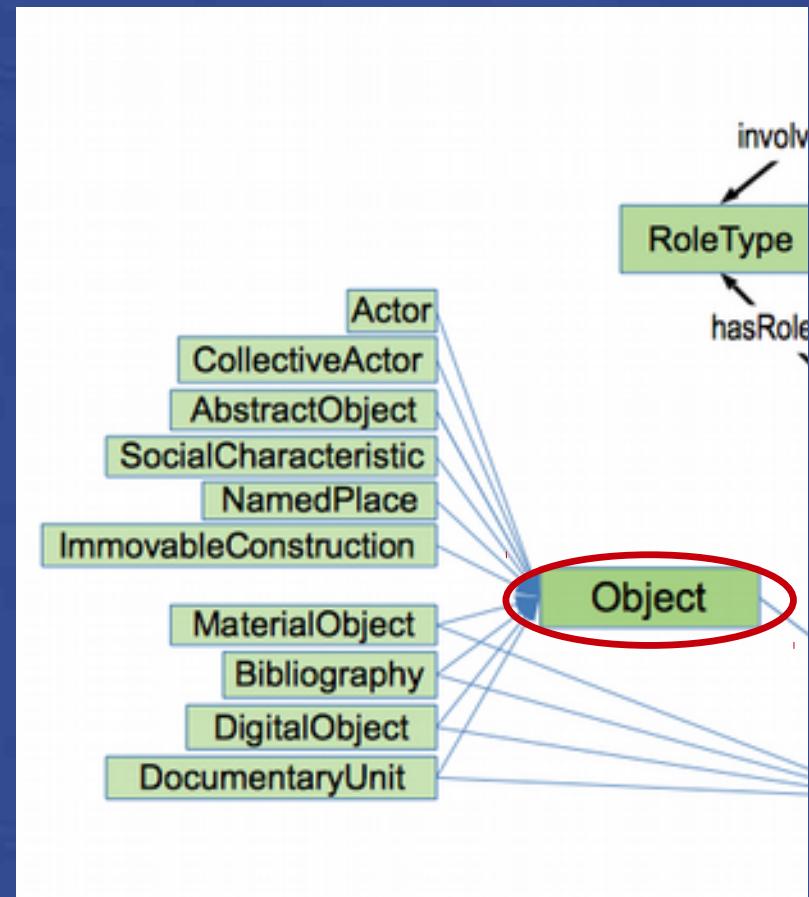
The symogih.org ontology as a controlled vocabulary for expressing the instances of the knowledge units' and roles' types ...

...but there are some issues we have to solve.

« Any encoding of CRM instances in a formal language that preserves the relations within a consistent subset of CRM classes, properties and inheritance rules is regarded a “reduced CRM-compatible form”, if:

- all the conditions applicable to a CRM compatible form are respected;
 - the subset does not violate the ***rules of subsumption and inheritance***;
 - any instance of the reduced CRM-compatible form is also a valid instance of a (full) CRM compatible form
 - the subset ***contains at least the following concepts***: » (CIDOC-CRM 6.2.1)

E77	-	Persistent Item
E70	-	Thing
E72	-	Legal Object
E18	-	Physical Thing
E24	-	Physical Man-Made Thing
E90	-	Symbolic Object
E71	-	Man-Made Thing
E24	-	<i>Physical Man-Made Thing</i>
E28	-	Conceptual Object
E89	-	Propositional Object
E30	-	Right
E73	-	Information Object
E90	-	<i>Symbolic Object</i>
E41	-	Appellation
E73	-	<i>Information Object</i>
E55	-	Type
E39	-	Actor
E74	-	Group
E52	-	Time-Span
E53	-	Place
E54	-	Dimension

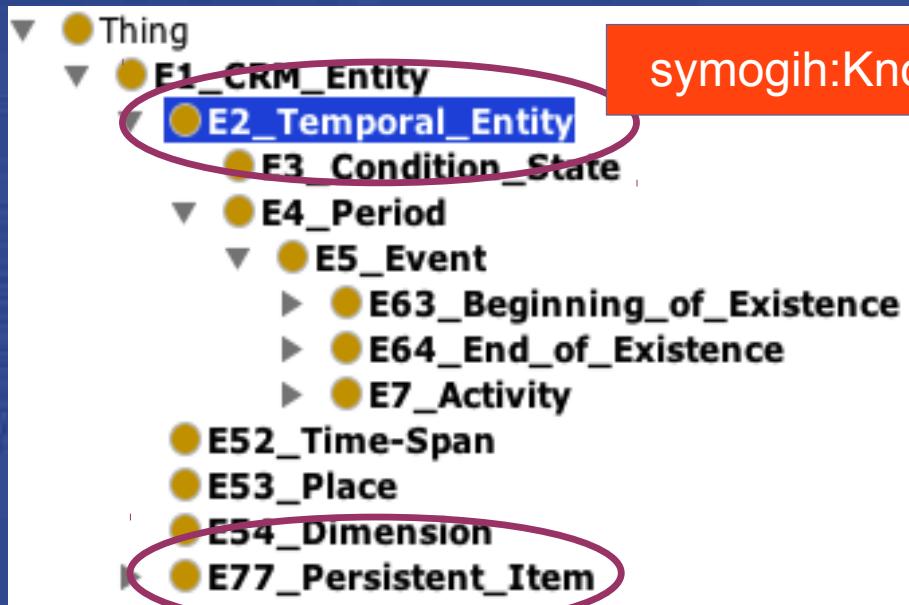


The issue of the ontologies' domain

« The CIDOC-CRM provides definitions and formal structure for describing [...] concepts and relationships used in cultural heritage documentation »

« The symogih.org ontology provides an instantiated generic data model for expressing historical knowledge »

Intersection : *historical knowledge*



symogih:KnowledgeUnit / dolce:Perdurant



comment [language: en]

symogih:Object / dolce:Endurant

Scope note:

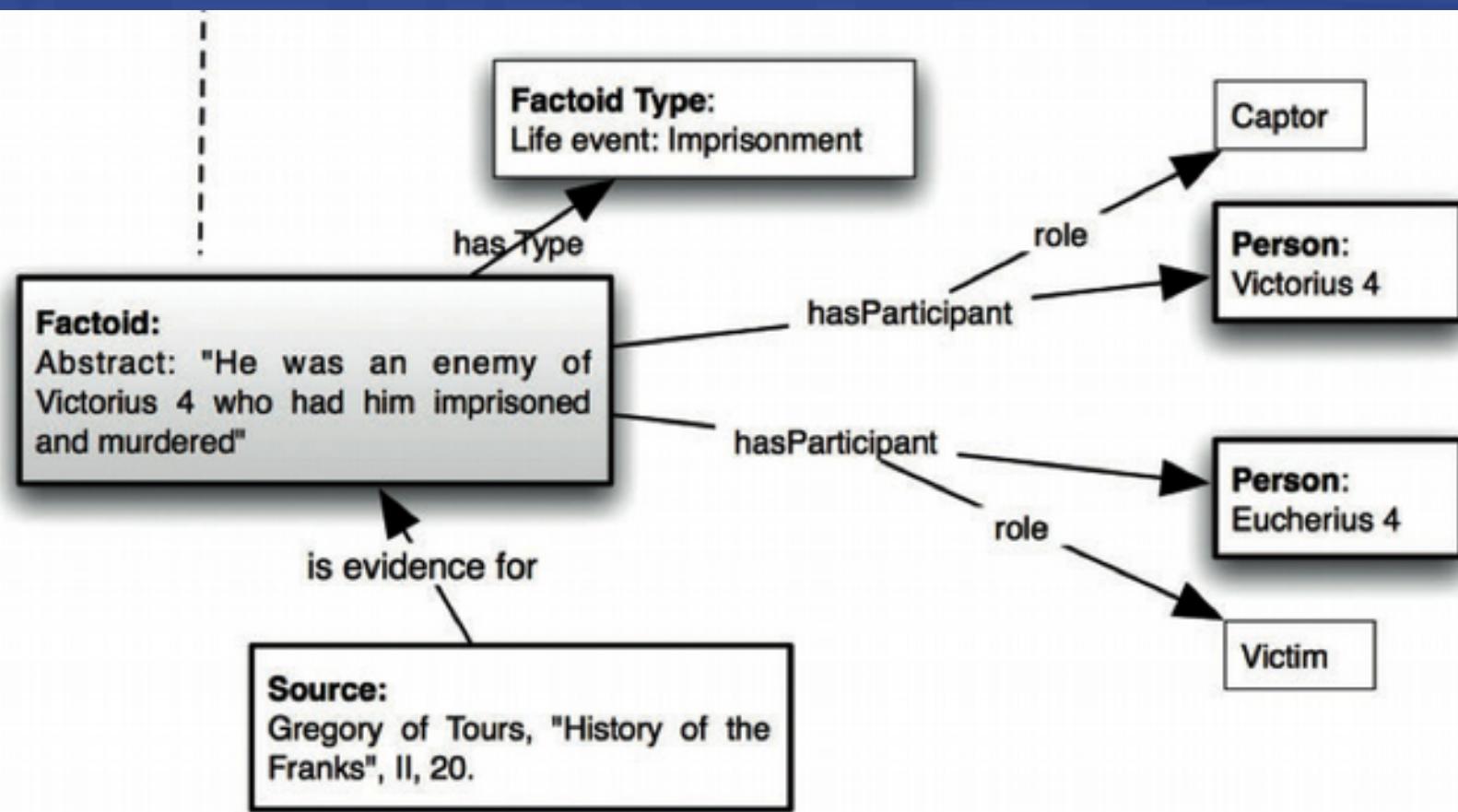
This class comprises all phenomena, such as the instances of E4 Periods, E5 Events and states, which happen over a limited extent in time.

In some contexts, these are also called perdurants. This class is disjoint from E77 Persistent Item. This is an abstract class and has no direct instances. E2 Temporal Entity is specialized into E4 Period, which applies to a particular geographic area (defined with a greater or lesser degree of precision), and E3 Condition State, which applies to instances of E18 Physical Thing.

Examples:

- Bronze Age (E4)
- the earthquake in Lisbon 1755 (E5)
- the Peterhof Palace near Saint Petersburg being in ruins from 1944 - 1946 (E3)

Can the symogih:KnowledgeUnit, understood as
an assertion by the historian,
be considered as an equivalent class
to dolce:Perdurant and cidoc-crm:E2_temporal_entity ?



Factoid ontology

KCL's Department of Digital Humanities (DDH : Prosopographies of the Byzantine World (PBE and PBW), Anglo-Saxon England (PASE), Medieval Scotland (PoMS), Anglo-Scottish cross-border society ('Breaking of Britain': BoB)

Michele Pasin and John Bradley, Factoid-based prosopography and computer ontologies: Towards an integrated approach, Literary and Linguistic Computing Advance Access published June 29, 2013

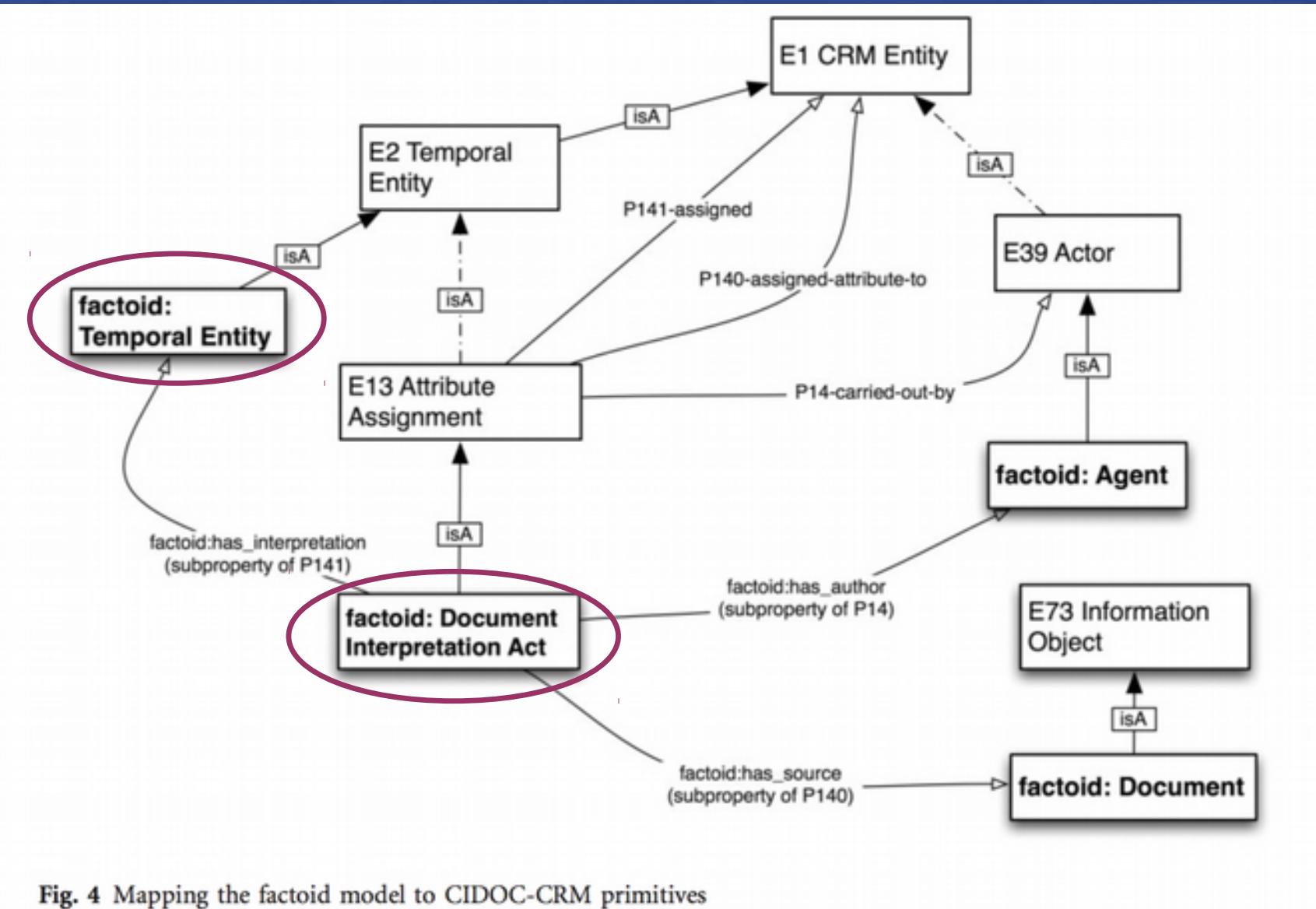
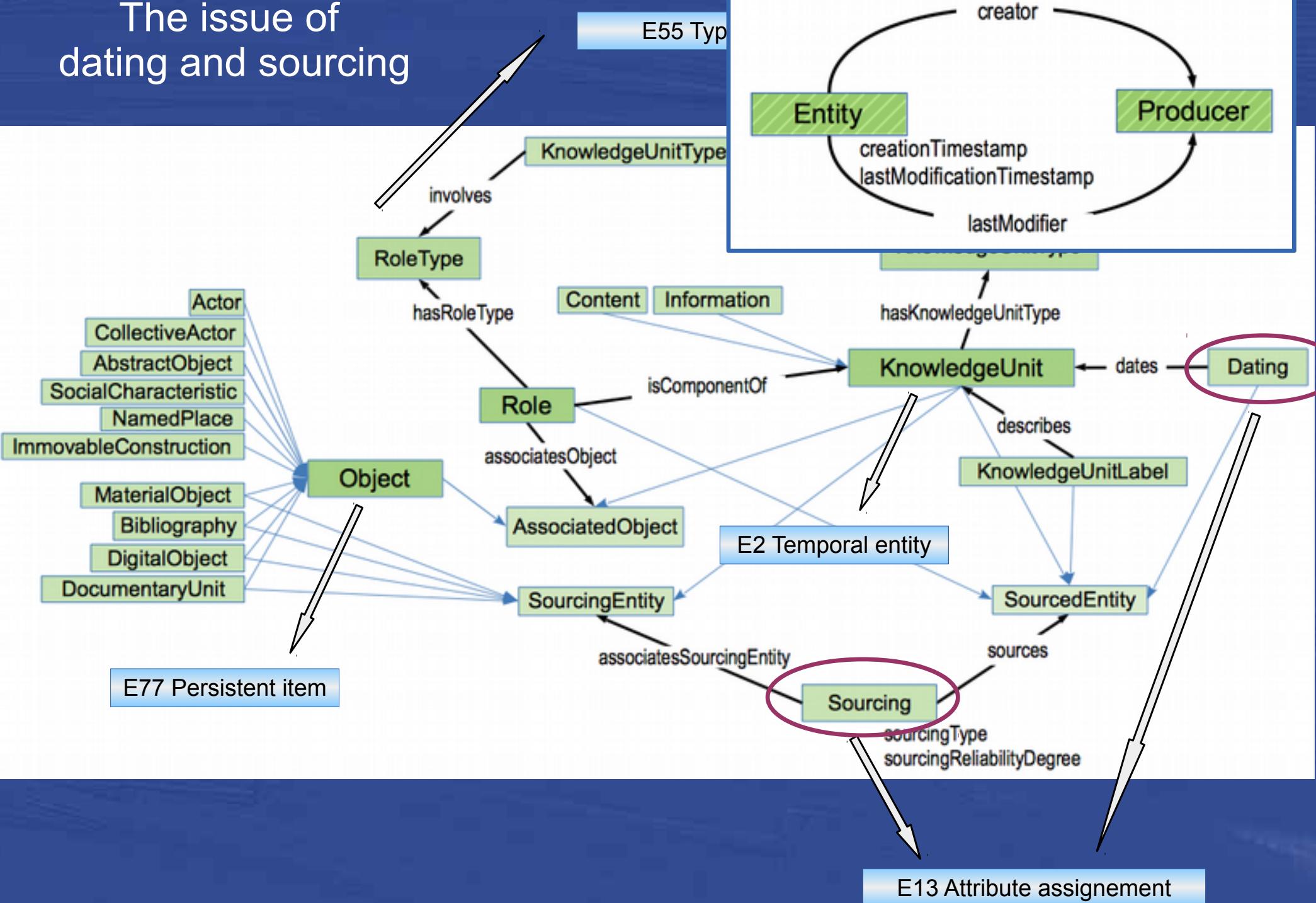


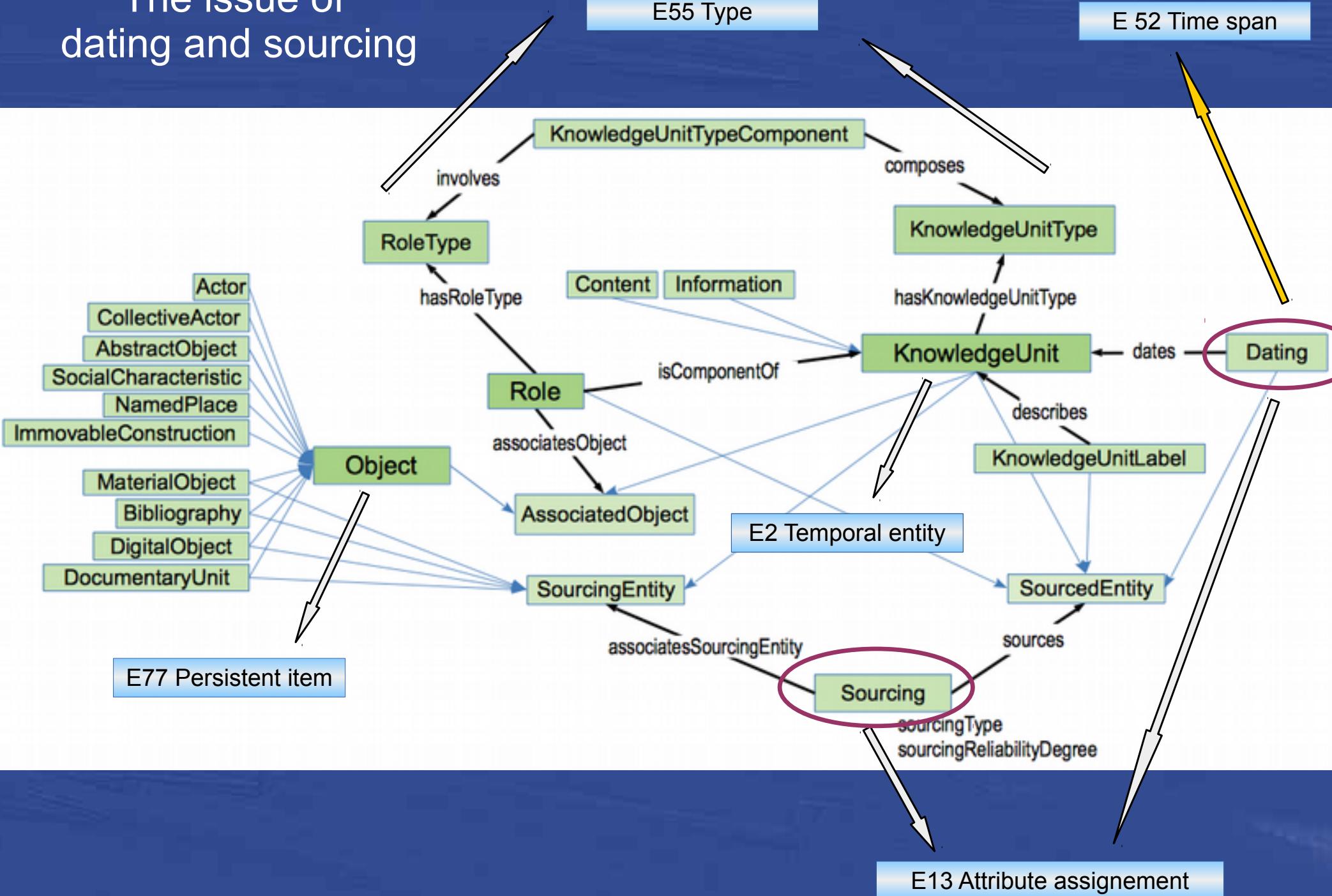
Fig. 4 Mapping the factoid model to CIDOC-CRM primitives

Michele Pasin and John Bradley, Factoid-based prosopography and computer ontologies: Towards an integrated approach, Literary and Linguistic Computing Advance Access published June 29, 2013

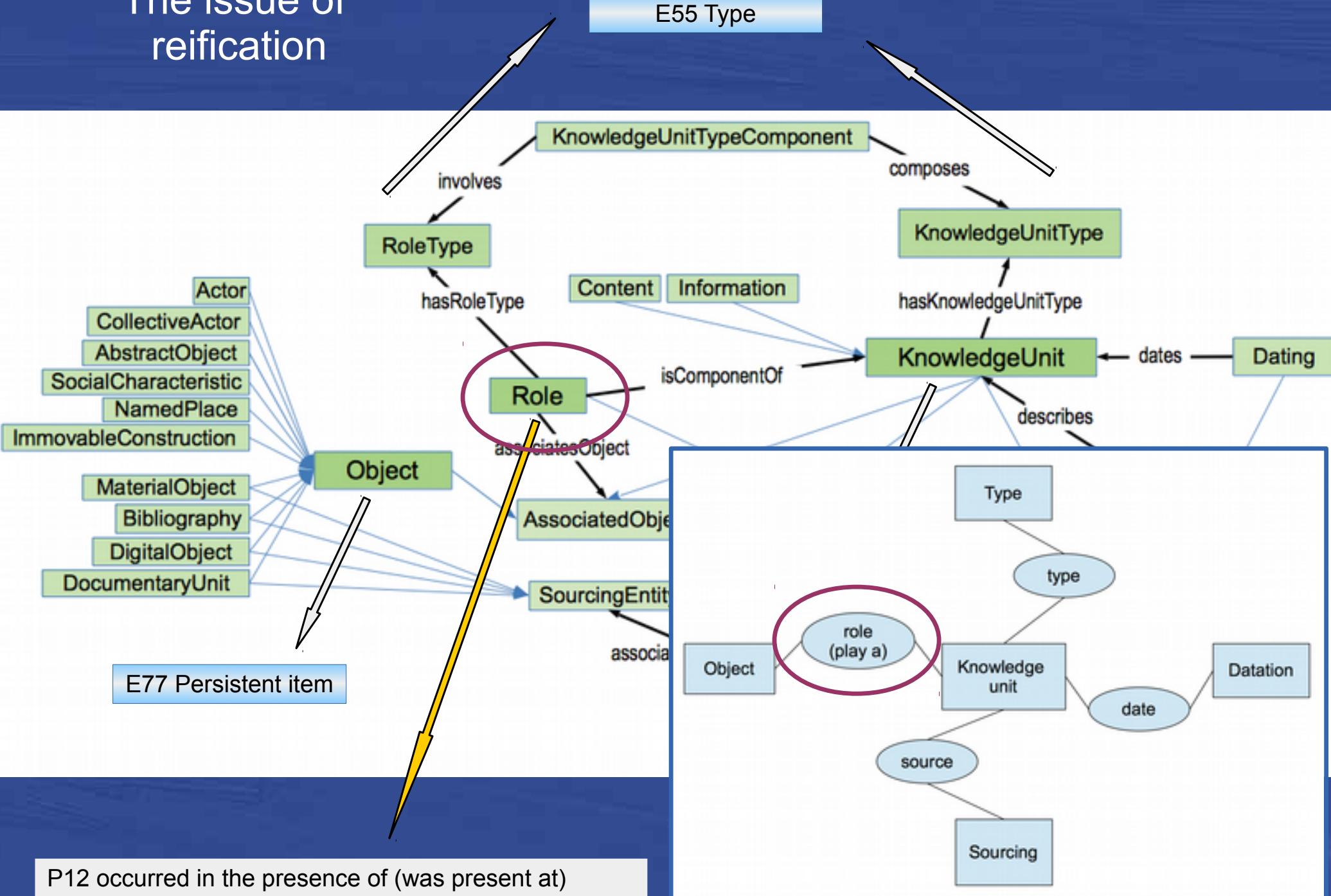
The issue of dating and sourcing



The issue of dating and sourcing

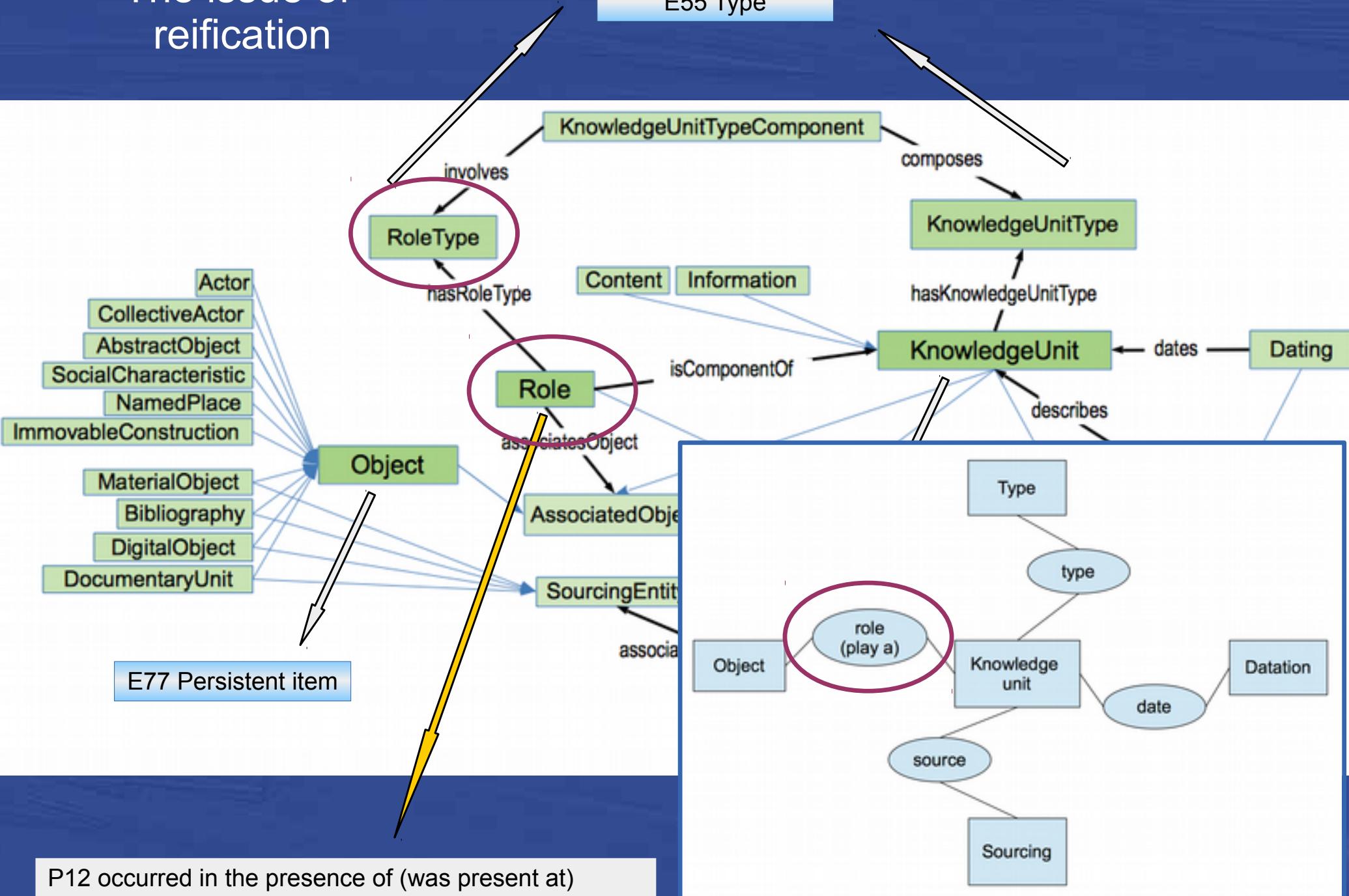


The issue of reification

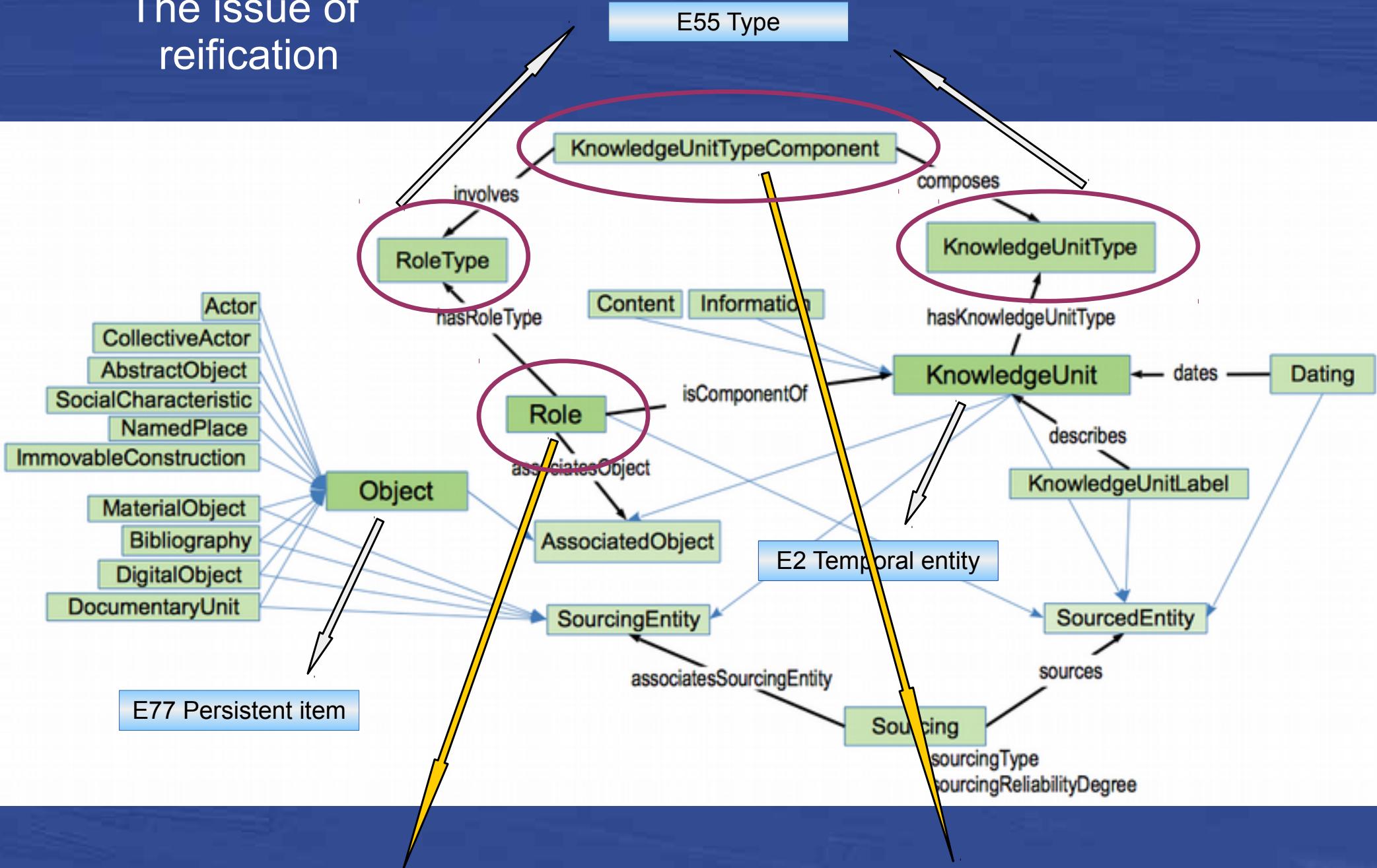


The issue of reification

E55 Type



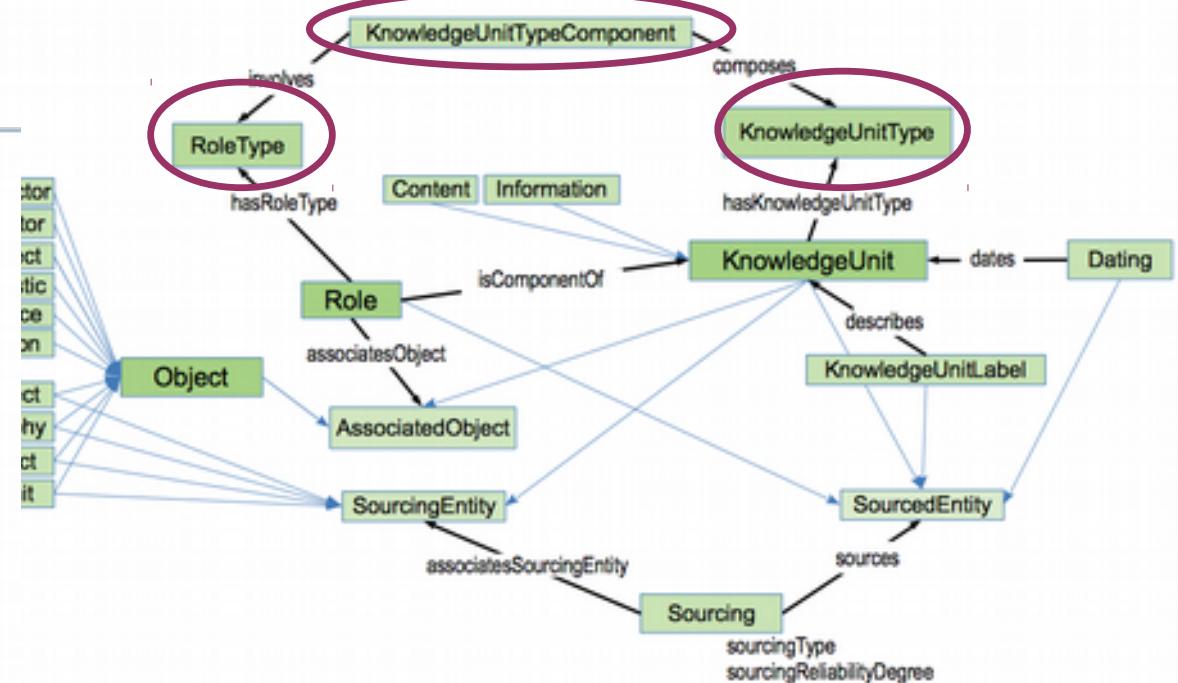
The issue of reification



P12 occurred in the presence of (was present at)

P150 defines typical parts of

- E2_Temporal_Entity
- E3_Condition_State
- E4_Period
- E5_Event
 - E63_Beginning_of_Existence
 - E12_Production
 - E65_Creation
 - E66_Formation
 - E67_Birth
 - E81_Transformation
 - E64_End_of_Existence
 - E68_Dissolution
 - E69_Death
 - E6_Destruction
 - E81_Transformation
 - E7_Activity
 - E10_Transfer_of_Custody
 - E11_Modification
 - E13_Attribute_Assignment
 - E65_Creation
 - E66_Formation
 - E85_Joining
 - E86_Leaving
 - E87_Curation_Activity
 - E8_Acquisition



The symogih.org vocabulary for historical knowledge modelling

SYMOGH

Références

- Arborescence des classes de types d'unités de connaissances
- Types d'informations
- Types de contenus

Objets

- Acteurs
- Acteurs collectifs
- Objets abstraits
- Caractères sociaux

Classes de types d'unités de connaissance

Chercher une classe

Appliquer

- Biographie
 - Enseignement - éducation
 - Exercice d'une fonction
 - Fin de la vie
 - Liens acteurs - institutions/acteurs collectifs
 - Localisation d'un acteur
 - Rites sociaux
 - Vie militaire
 - Vie professionnelle

« The primary role of the CRM is to enable information exchange and integration between heterogeneous sources of cultural heritage information. »

Conclusion :

a CIDOC – CRM extension for historical knowledge modelling
starting from the symogih.org project's experience ?