



europæana
think culture

The European Data Model (EDM)

EUROPEANALOCAL NATIONAL MEETING, 17th
of November, Madrid

Moving from Europeana Semantic Elements –ESEv3.3...

- Published in July 2010
- Some significant changes from V3.2.2
- Addition of:
 - **europaena:dataProvider** element containing the name of the content/data provider
 - **europaena:rights** element containing a statement about the licence applied to the objects

Europeana Semantic Elements (ESE) V3.3

Strongly recommended

dc:title
dcterms:alternative
dc:creator
dc:contributor
dc:date
dcterms:created
dcterms:issued

Recommended

dc:coverage
dcterms:spatial
dcterms:temporal
dc:description
dcterms:isPartOf
dc:language
dc:publisher
dc:source
dc:subject
dc:type⁷

Additional elements

dc:format
dcterms:extent
dcterms:medium
dc:identifier
dc:rights
dcterms:provenance
dc:relation
dcterms:conformsTo
dcterms:hasFormat
dcterms:isFormatOf
dcterms:hasVersion
dcterms:isVersionOf
dcterms:hasPart
dcterms:isReferencedBy
dcterms:references
dcterms:isReplacedBy
dcterms:replaces
dcterms:isRequiredBy
dcterms:requires
dcterms:tableOfContents

Europeana elements

europeana:country
europeana:dataProvider
europeana:hasObject
europeana:isShownAt
europeana:isShownBy
europeana:language
europeana:object
europeana:provider
europeana:rights⁷
europeana:type⁷
europeana:unstored
europeana:uri
europeana:usertag
europeana:year

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A Toast, or A Night Feast after War near Yerevan

Title: A Toast, or A Night Feast after War near Yerevan

სადღეგრძელო ანუ ომის შემდგომ ღამე ლზინი, ერევნის სიახლოვეს

Date: [1972]

Creator: Orbeliani, Grigol

Description: Grigol Orbeliani's best and longest work is an ode A Toast, or A Night Feast after War near Yerevan, whose original version was composed on the occasion of the battle of Yerevan during the Russo-Persian War in 1827, not without influence of the Russian poet Vasily Zhukovsky as late as 1879.

Data provider: The National Parliamentary Library of Georgia

Provider: The European Library ; Europe



Free Access

Source: The National Parliamentary Library of Georgia

Data provider: The National Parliamentary Library of Georgia

Provider: The European Library ; Europe

Copyright rights: [Rights Reserved - Free Access](#)

[More](#)

...To The European Data Model (EDM)

- What is EDM?
 - A new data structure for Europeana
 - Will allow Europeana to move beyond ESE
 - Facilitate Europeana's participation in the Semantic Web



Europeana Data Model (EDM)

- 1. Distinction between “provided object” (painting, book, program) and digital representation
- 2. Distinction between object and metadata record describing an object .
- 3. Allow for multiple records for same object, containing potentially contradictory statements about an object
- 4. Support for objects that are composed of other objects
- 5. Standard metadata format that can be specialized
- 6. Standard vocabulary format that can be specialized
- 7. EDM should be based on existing standards

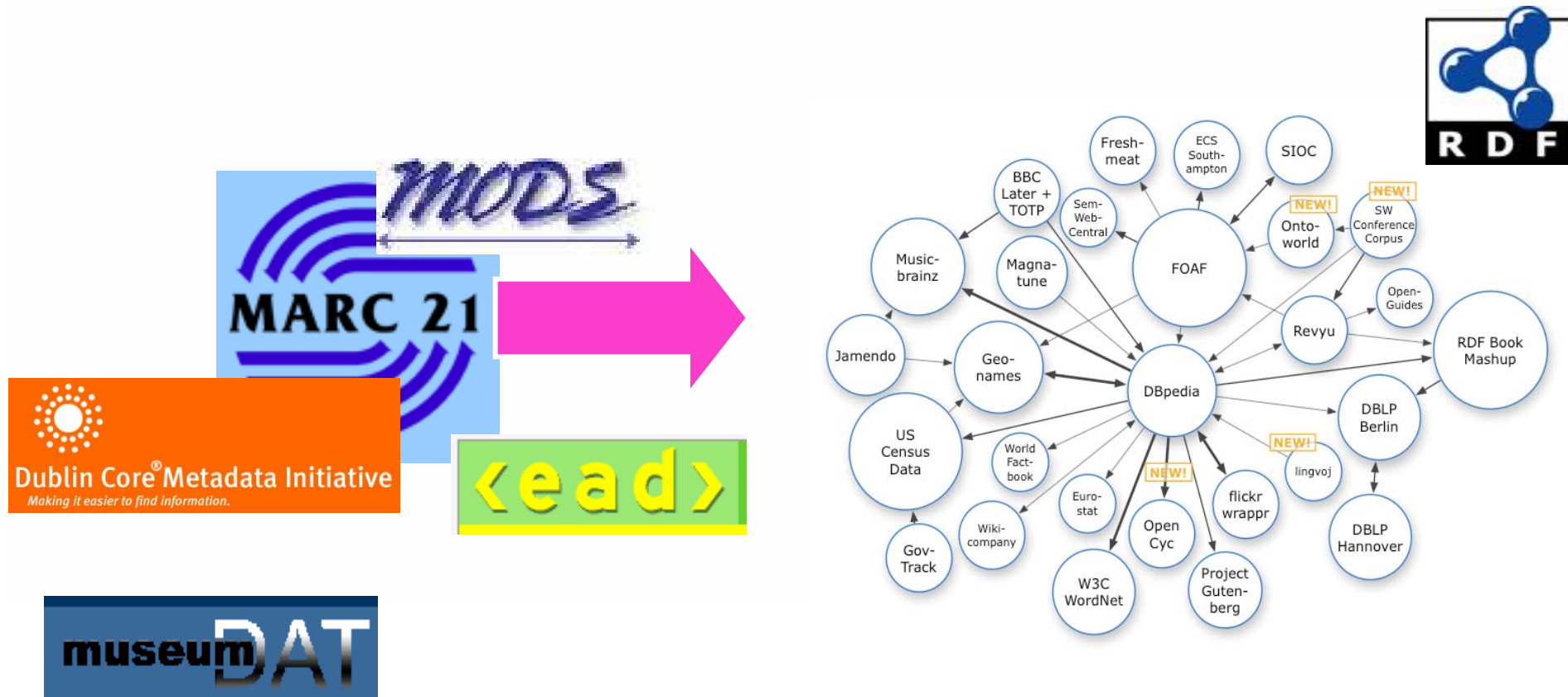
Main principles

- EDM is a richer model

- Transcends domain specific metadata standards
- Based on an open, cross-domain semantic web-based framework
- Namespaces used in EDM: RDF, RDFS, OAI-ORE, SKOS, DC
 - The Resource Description Framework (RDF) and the RDF Schema (RDFS) namespaces (<http://www.w3.org/TR/rdf-concepts/>)
 - The OAI Object Reuse and Exchange (ORE) namespace (<http://www.openarchives.org/ore>)
 - The Simple Knowledge Organization System (SKOS) namespace (<http://www.w3.org/TR/skos-reference/>)
 - The Dublin Core namespaces for elements (<http://purl.org/dc/elements/1.1/>, abbreviated as DC), terms (<http://purl.org/dc/terms/>, abbreviated as DCTERMS) and types (<http://purl.org/dc/dcmitype/>, abbreviated as DCMITYPE)
 - The Visual Resources Association (VRA) namespace

Europeana Data Model (EDM)

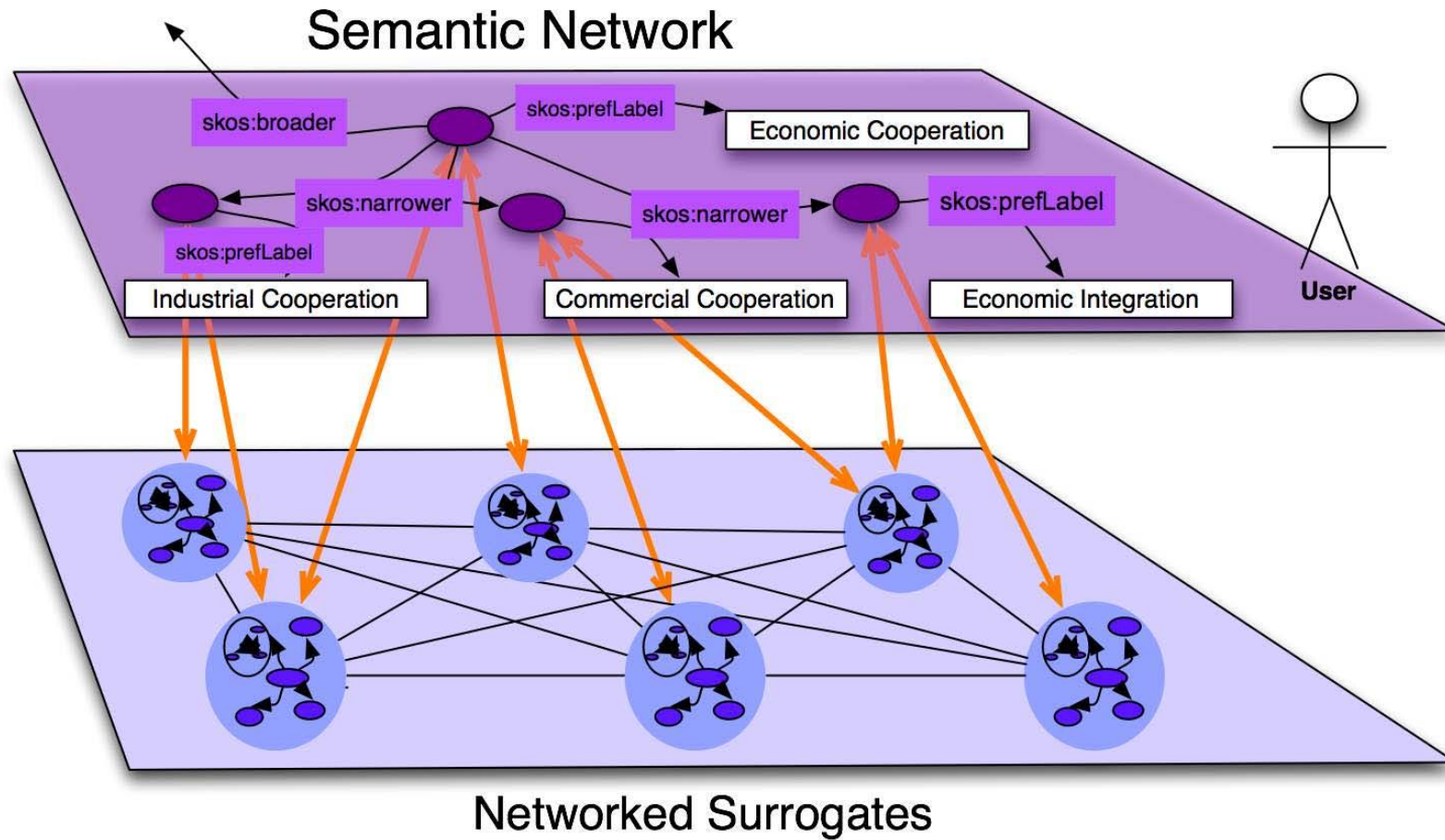
- Framework for *collecting, connecting and enriching* metadata



Europeana Data Model (EDM)

- Enabling the generation of knowledge ..
- Allowing connections to be made between search terms
- Giving to the digitised object a new dimension allowing multiple linking between its digital representations accessible over the web
- Allowing the representation of hierarchical items

The general picture



EDM structure

Europeana Data Model v. 5.1

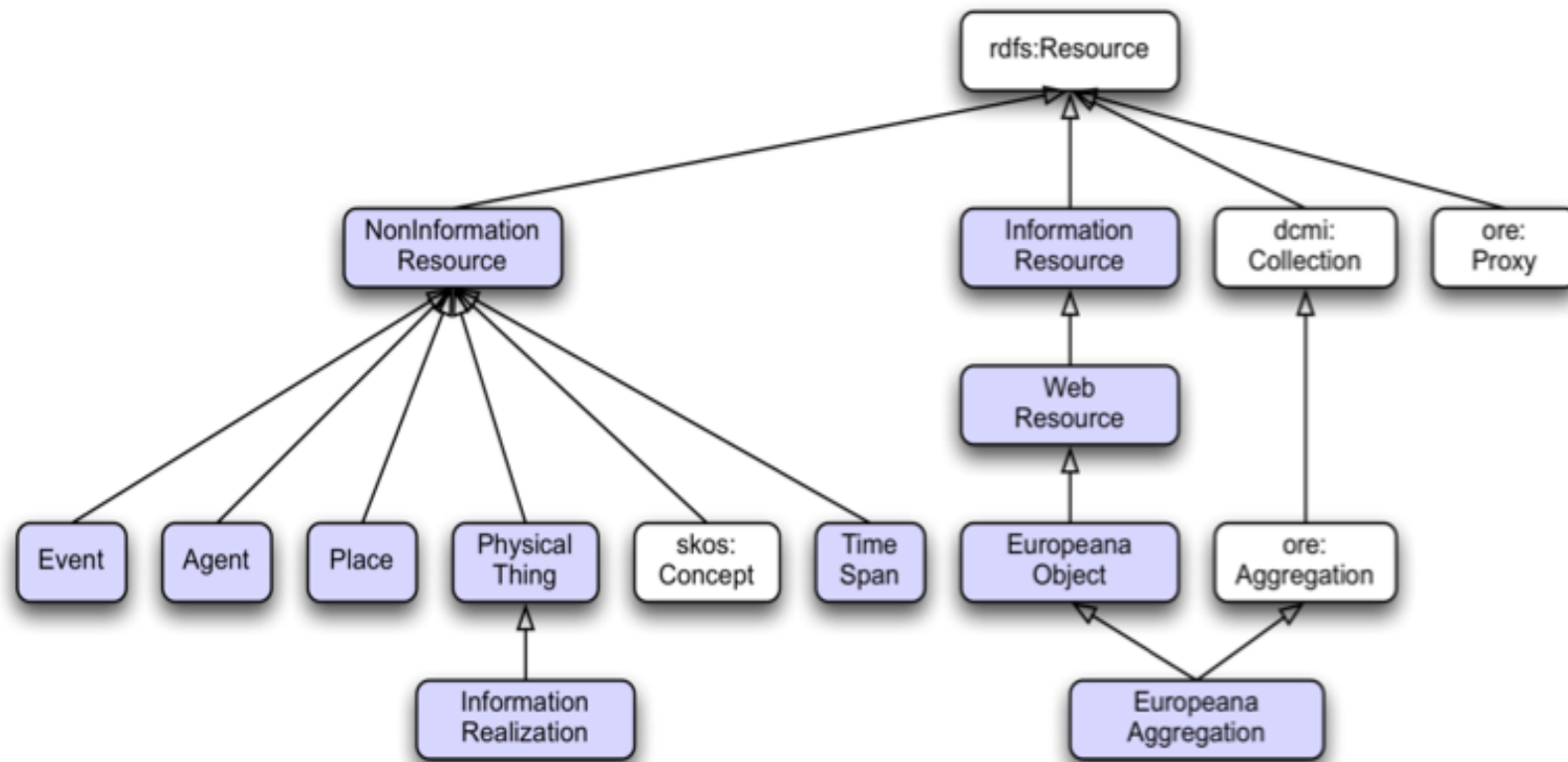
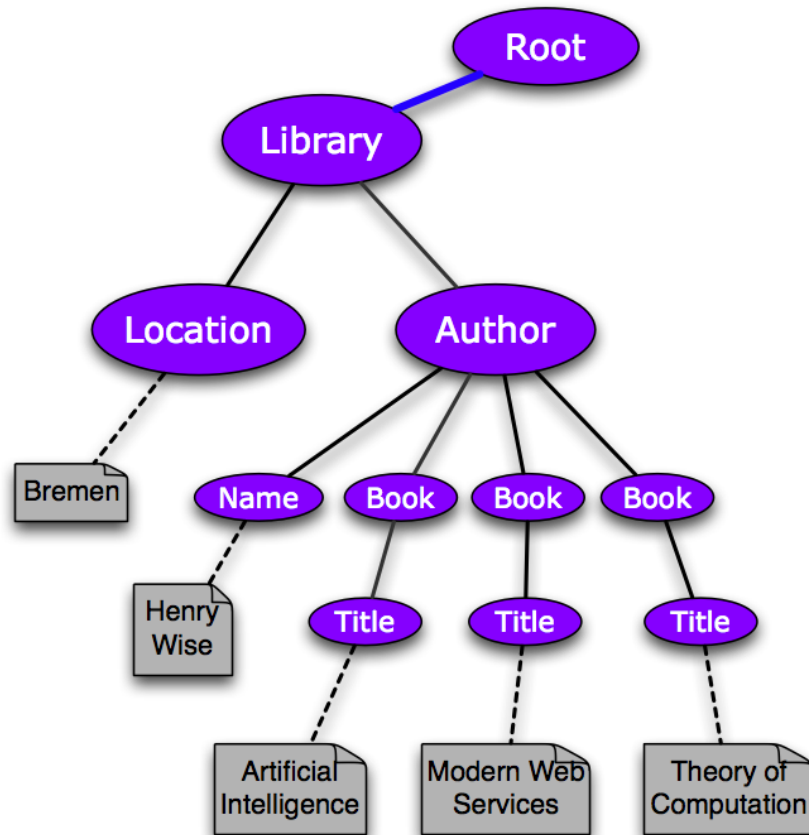


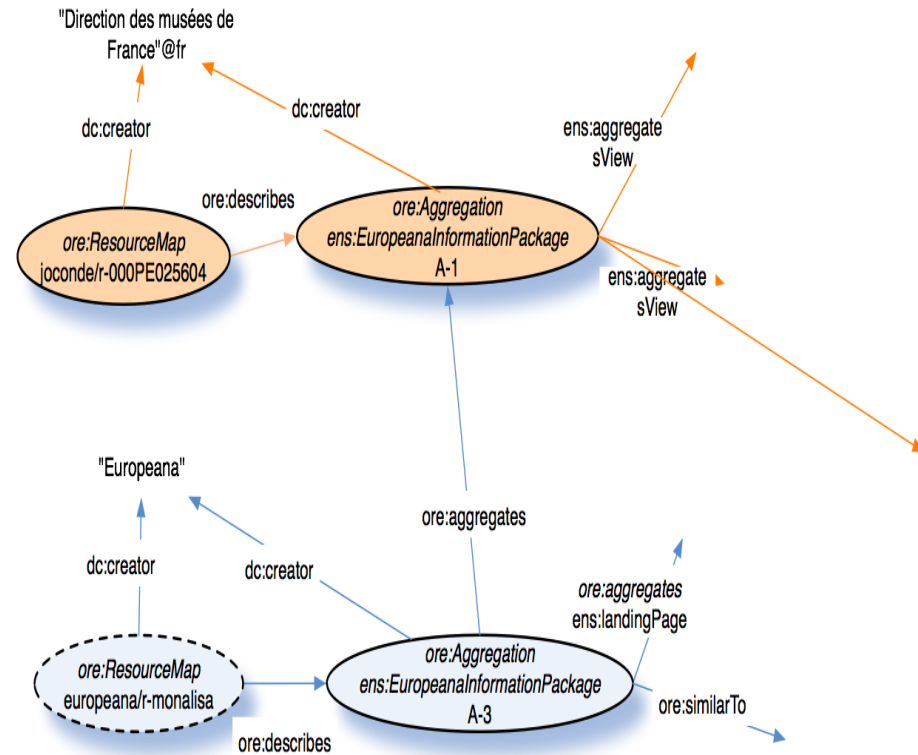
Figure 1. The EDM Class hierarchy. The classes introduced by EDM are shown in light blue rectangles. The classes in the white rectangles are re-used from other schemas; the schema is indicated before the semicolon.

Difference between XML and RDF

- XML represents knowledge as 'trees'



- RDF represents knowledge as networks of nodes and graphs



An example 1

Réponse n° 1



Domaine	peinture
Type d'objet	tableau
Titre	PORTRAIT DE MONA LISA (1479-1528) ; DITE LA JOCONDE
Auteur/exécutant	LEONARDO DI SER PIERO DA VINCI ; VINCI Léonard de (dit)
Précision auteur/exécutant	Vinci, 1452 ; Amboise, 1519
Ecole	Italie
Période création/exécution	1er quart 16e siècle
Millésime création/exécution	1503 entre ; 1506 et
Genèse	oeuvre en rapport ; reproduit en gravure
Historique	commandé par le florentin Francesco del Giocondo, époux de Mona Lisa entre 1503 et 1506 ; nombreuses copies dont une conservée au Louvre ; gravé par Fauchery, par Filhol, par Landon
Matériaux/techniques	peinture à l'huile ; bois
Mesures	77 H ; 53 L
Sujet représenté	portrait (Mona Lisa, femme, à mi-corps, de trois-quarts, assis, accoudé, loggia, Italien) ; fond de paysage (montagne, rocher, cours d'eau, pont, plaine, route)
Date sujet représenté	1479-1528
Lieu de conservation	Paris ; musée du Louvre département des Peintures
	 <i>Musée de France</i> <i>au sens de la loi n° 2002-5 du 4 janvier 2002</i>
Statut juridique	propriété de l'Etat ; musée du Louvre département des Peintures
Anciennes appartenances	François 1er ; Couronne de France
Numéro d'inventaire	INV 779
Commentaires	légère diminution du tableau sur les côtés (environ 7 mm) ; acheté vraisemblablement vers 1519, après la mort de l'artiste
Bibliographie	HEYDENRICH 6 ; OTTINO DELLA CHIESA 31 ; VILLOT I 484 ; HAUTECOEUR 1601 ; C.S.I. 1981, P 192
Copyright notice	© Musée du Louvre, © Direction des Musées de France, 1999
Crédits photographiques	© Réunion des musées nationaux ; © Hervé Lewandowski ; © Thierry Le Mage
	 commande reproduction et/ou conditions d'utilisation renseignements sur le musée 000PE025604





An example 2



© Musée du Louvre/A. Dequier - M. Bard

Denon
1^e étage
Salle de la Joconde
Salle 6



-  détail de la bouche
-  détail des mains
-  détail des yeux
-  détail du buste

Leonardo di ser Piero DA VINCI, dit Léonard de Vinci

Vinci, 1452 - Amboise, 1519

Portrait de Lisa Gherardini, épouse de Francesco del Giocondo, dite Monna Lisa, la Gioconda ou la Joconde

Vers 1503 - 1506

Peint à Florence

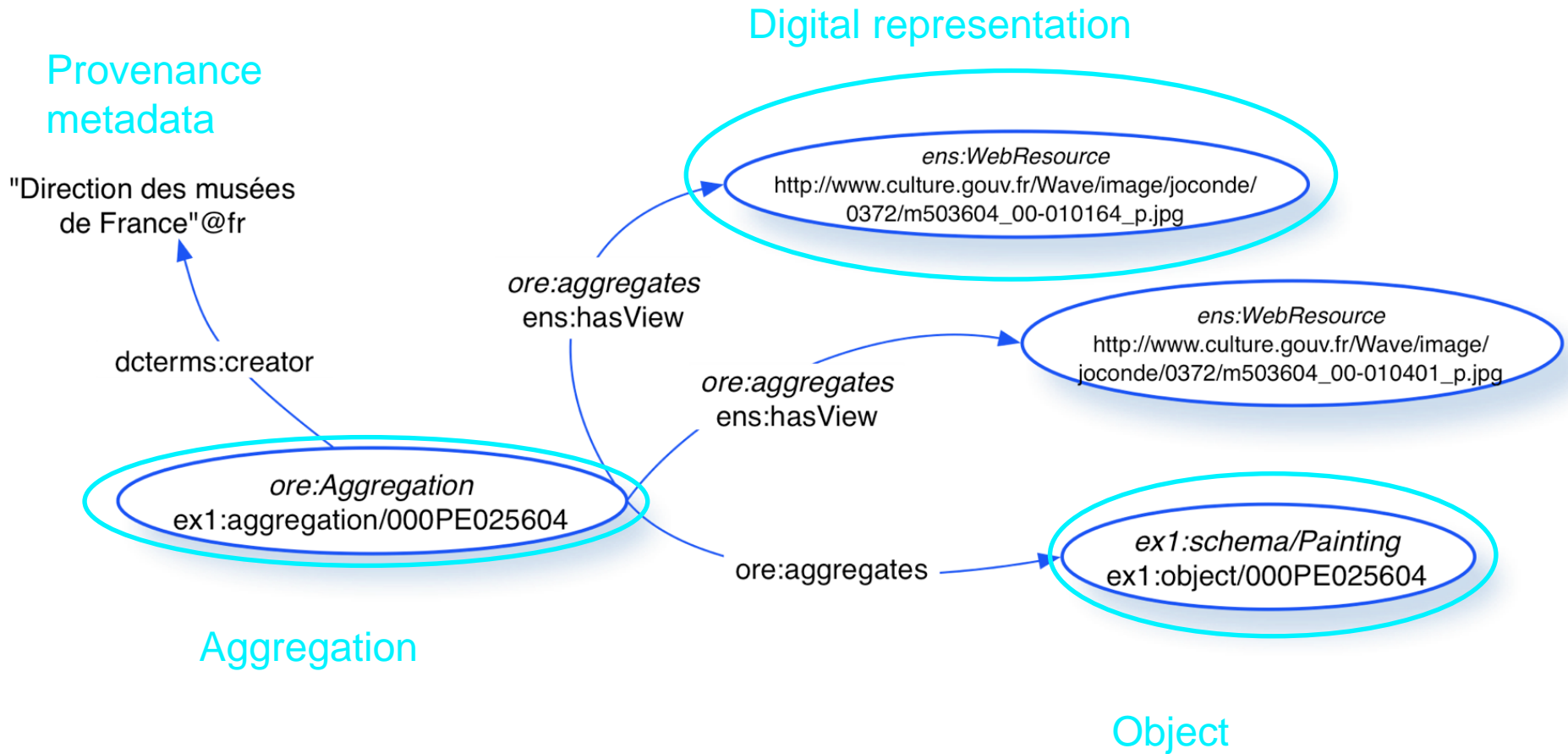
Bois (peuplier)

H. : 0,77 m. ; L. : 0,53 m.

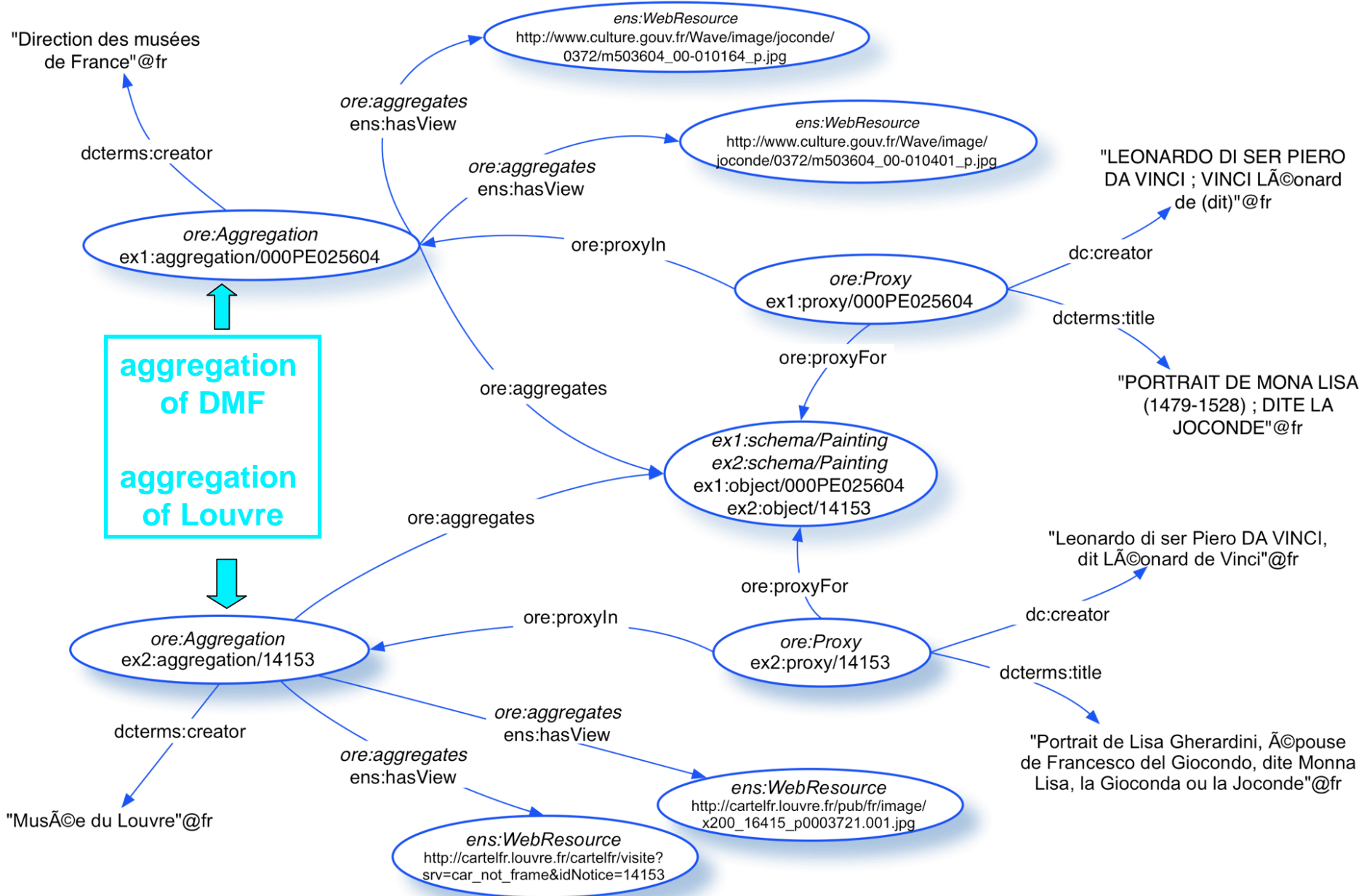
Acquis par François Ier en 1518
Département des Peintures

INV. 779

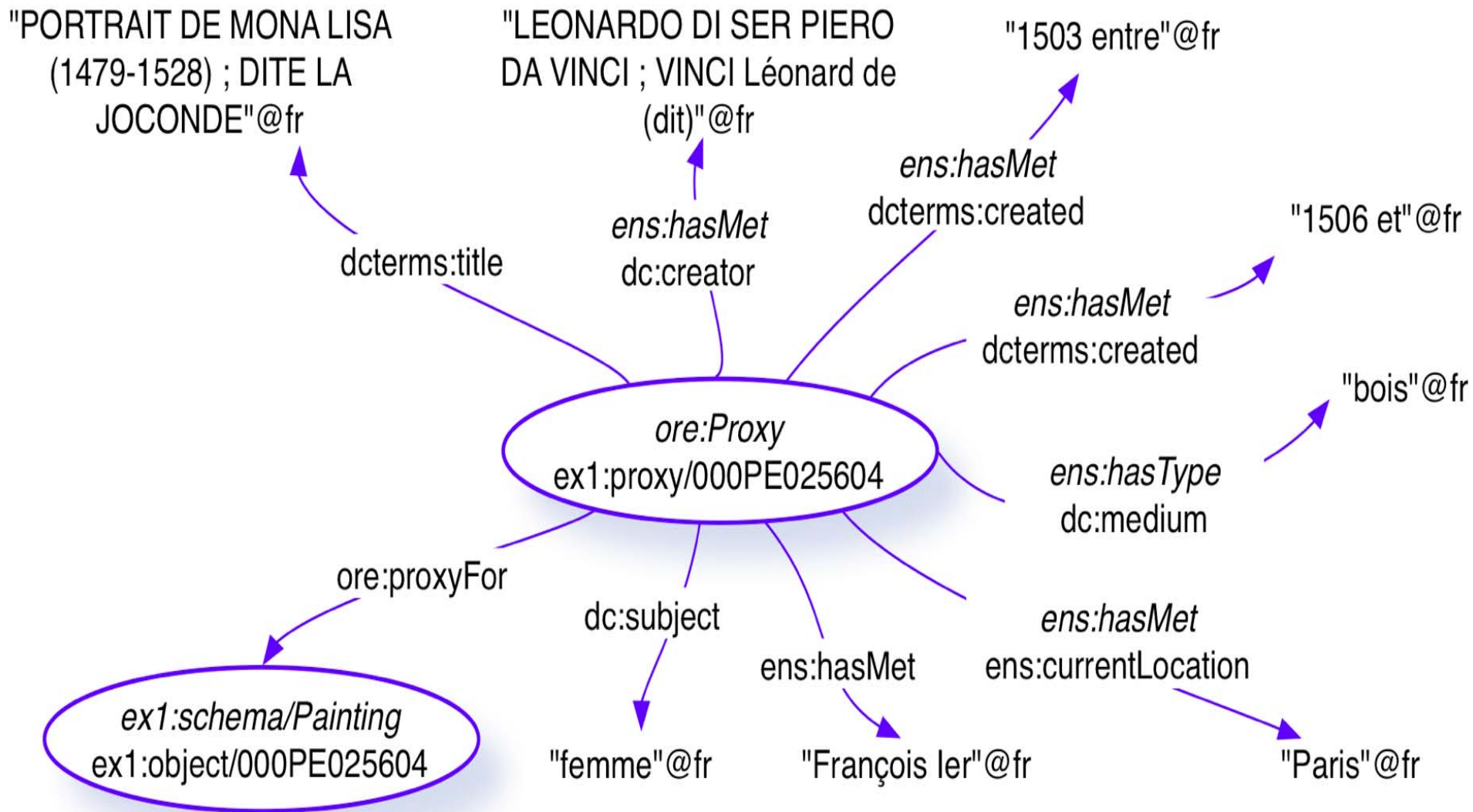
Aggregation of data of a provider



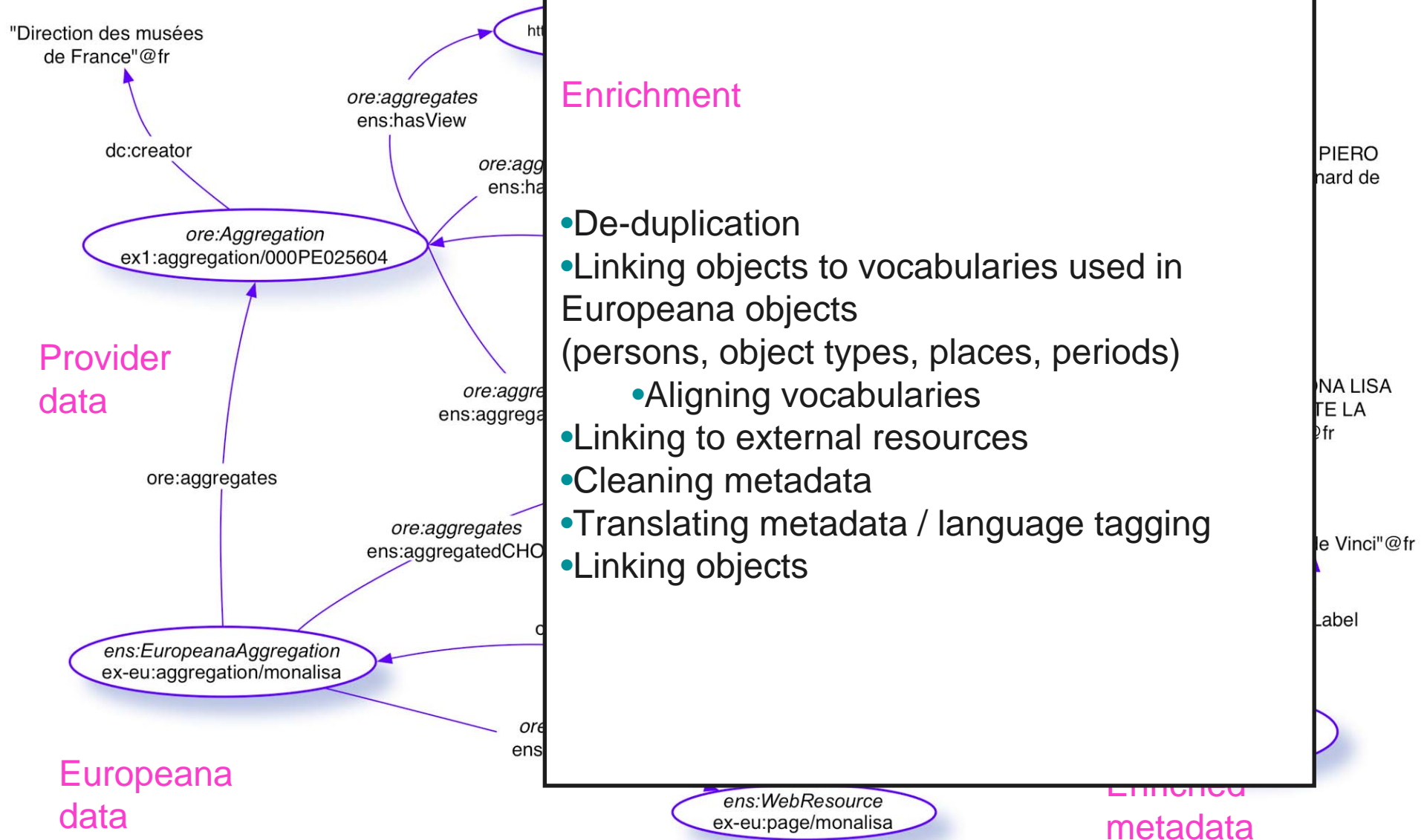
Multiple aggregations for multiple providers



Provides contextual information



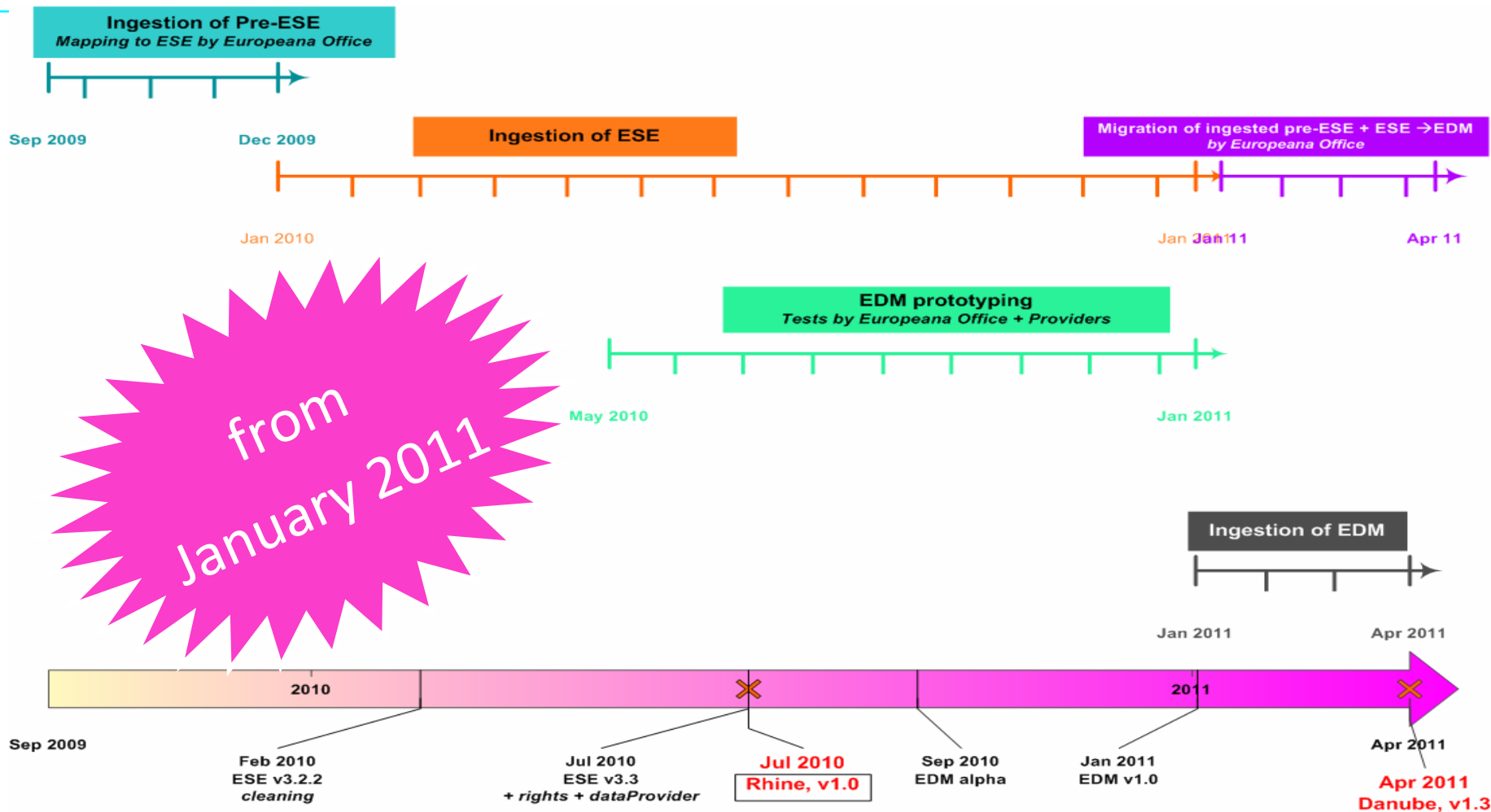
EDM enrichment example



Future developments and implementation

- EDM has been validated by technical specialists at libraries, museums, archives and audio-visual collections
- It will be refined and tested between now and January 2011
- It is backwardly compatible with ESE, and will start to be used by data providers during 2011

Preparation of EDM: timeline



Documentation available (current status)

- **Europeana Data Model Primer (v5.1)**
- **Europeana Data Model Specification (v5.2)**
- <http://version1.europeana.eu/web/europeana-project/technicaldocuments/>



Europeana Data Model Primer

01/04/2010

Europeana v1.0

Definition of the Europeana Data Model elements

Version 5.2, 30/7/2010

Thanks !

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