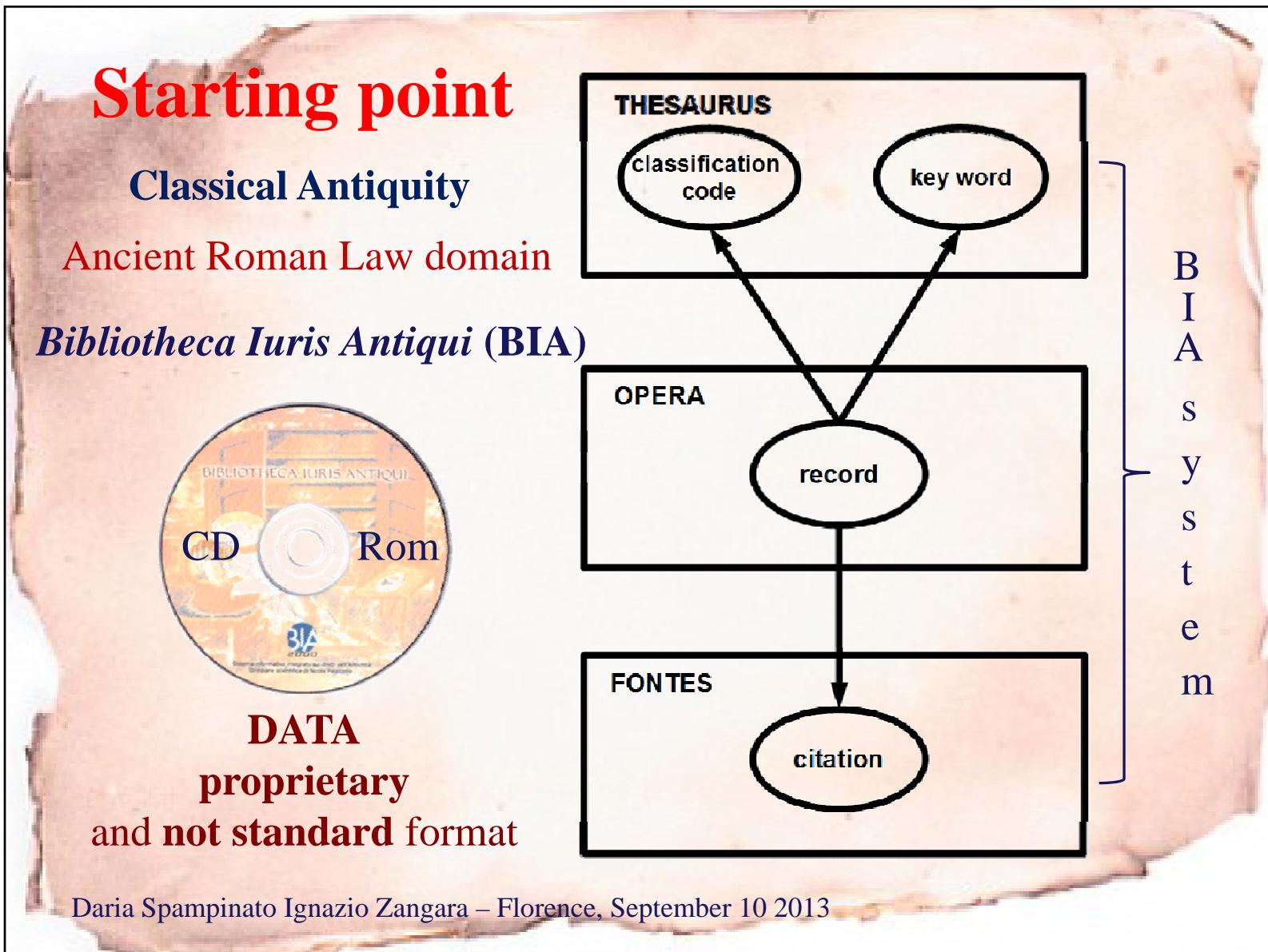


Daria Spampinato, National Research Council (CNR)
Ignazio Zangara, University of Catania

Classical Antiquity and semantic content management on Linked Open Data

DH-CASE 2013

Florence, September 10 2013



BIA-Net

From CD-Rom to Web application

DATA

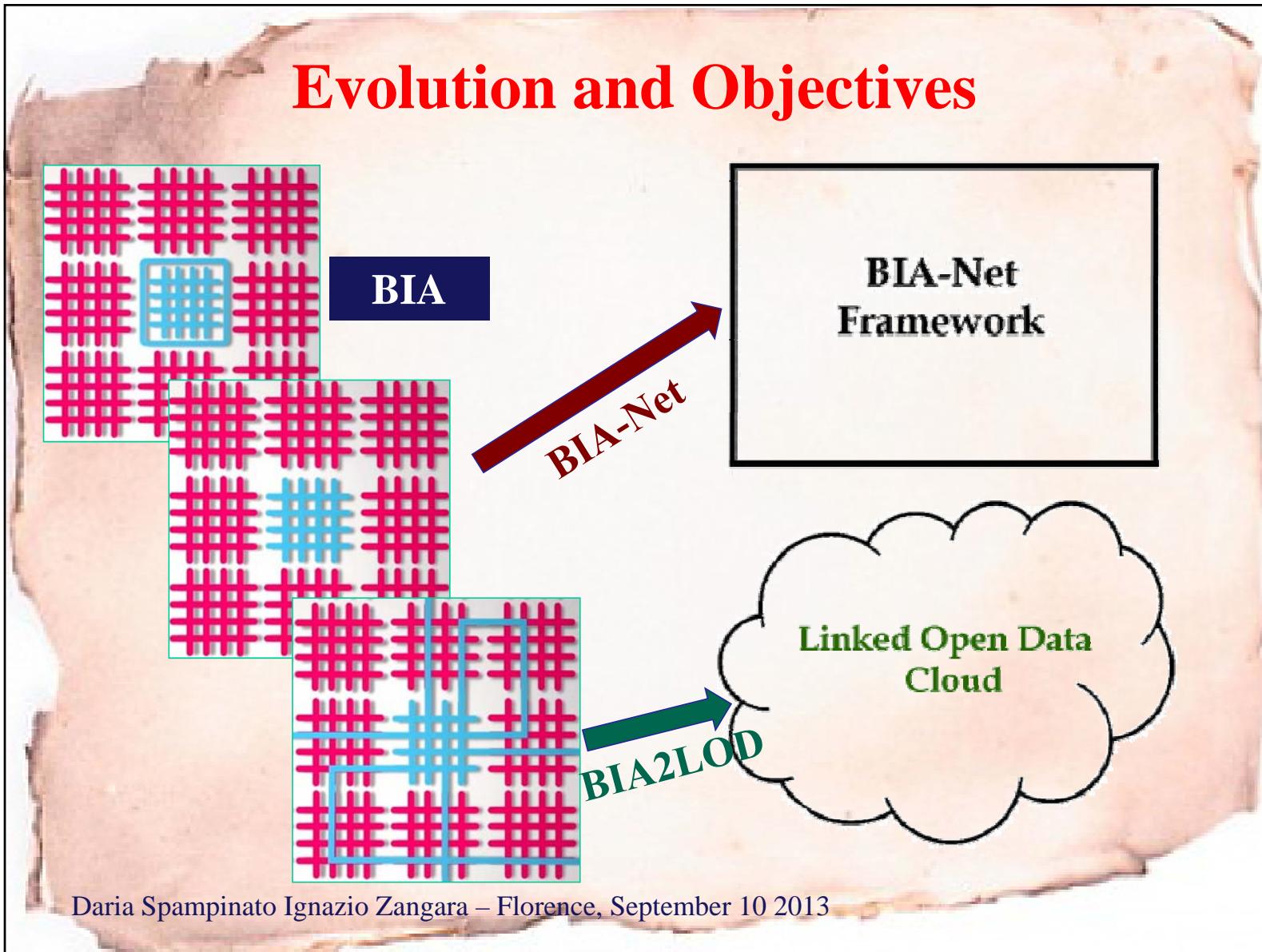


Data conversion

XML format (with triple **RDF** in *Thesaurus* and *Opera*), according to the **DC**, **TEI** and **SKOS** vocabularies

Web standard framework

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Semantic Content Management

strategy to data access

different investigation styles for different scientific methods

many information access channels, besides conventional ones

multiperspective data access strategy

interoperability among different systems

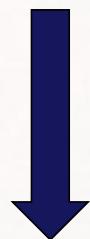
human and machine processable data

Knowledge representation in Thesauri is an excellent way to semantic investigation, but we are also looking forward ...

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BIA ~ Thesaurus

Proprietary non-standard format



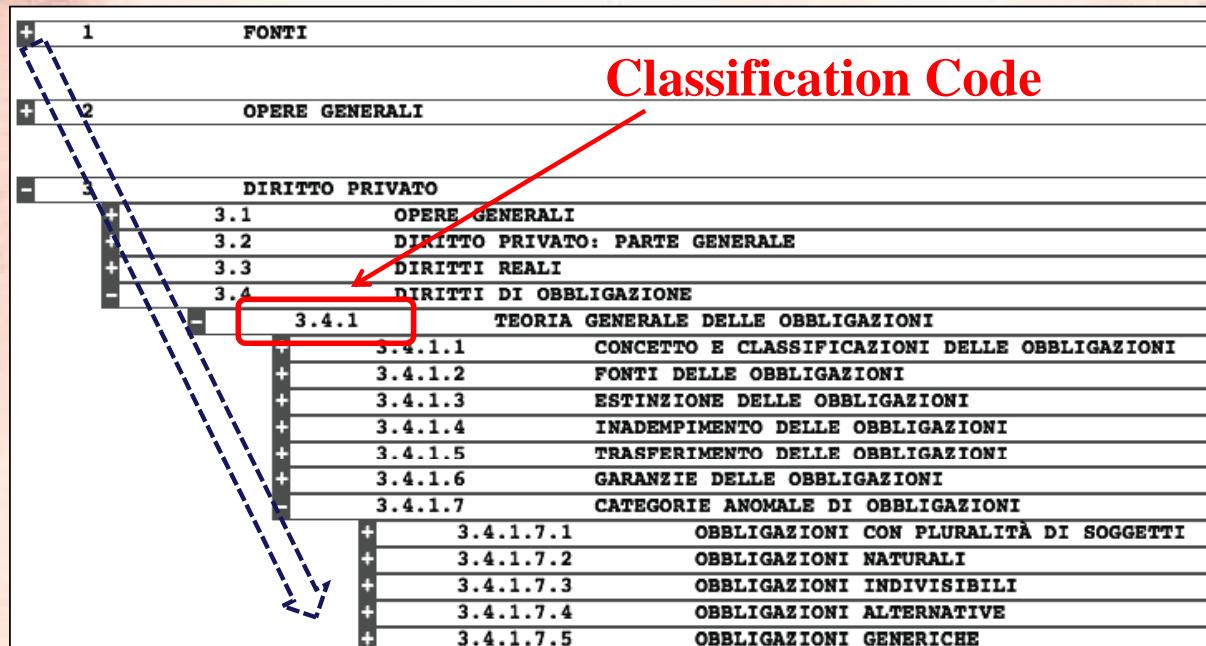
SKOS/RDF mapping

thesauri --- ‘term-based’

SKOS --- ‘concept-based’

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BIA ~ Thesaurus

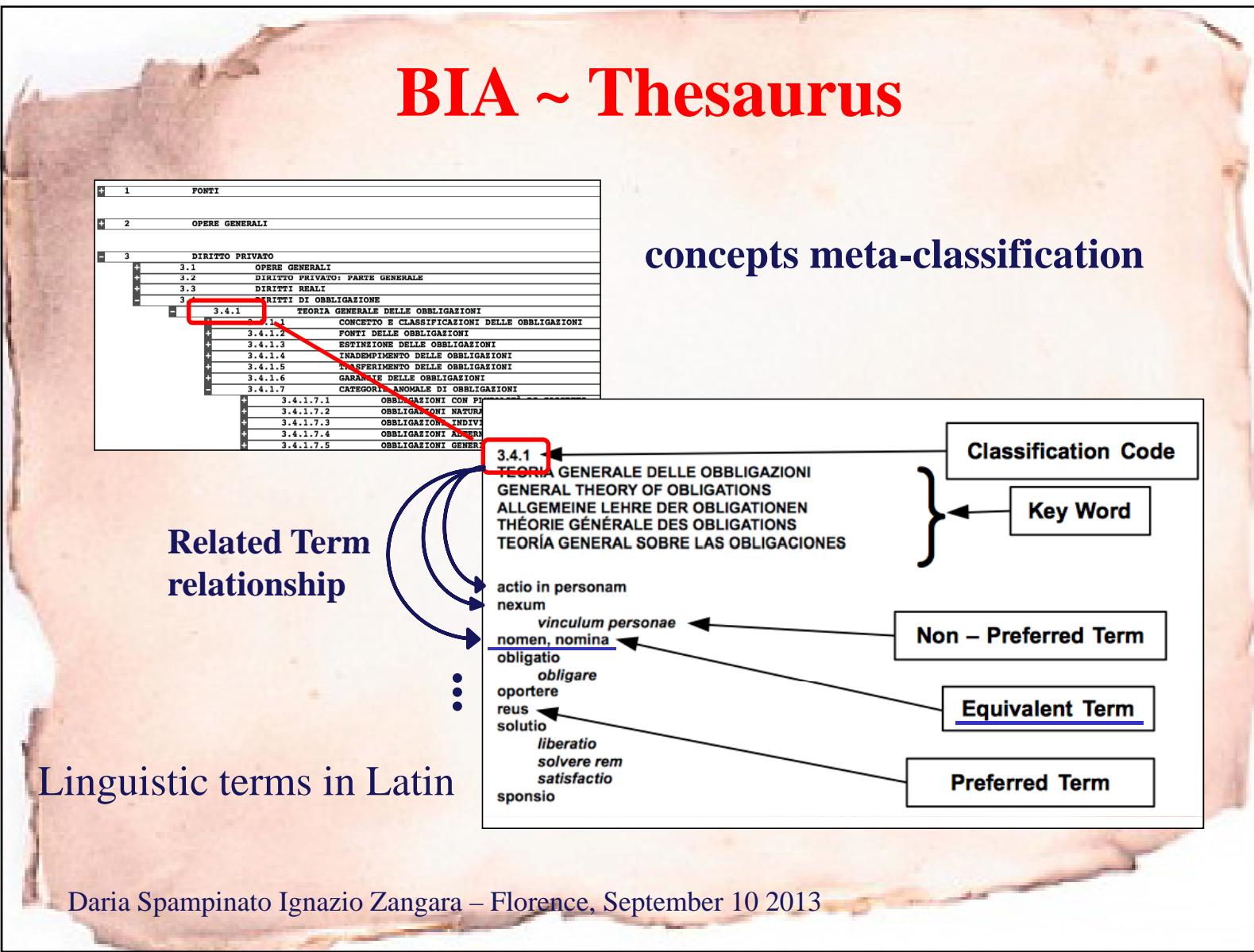


hierarchical tree structure

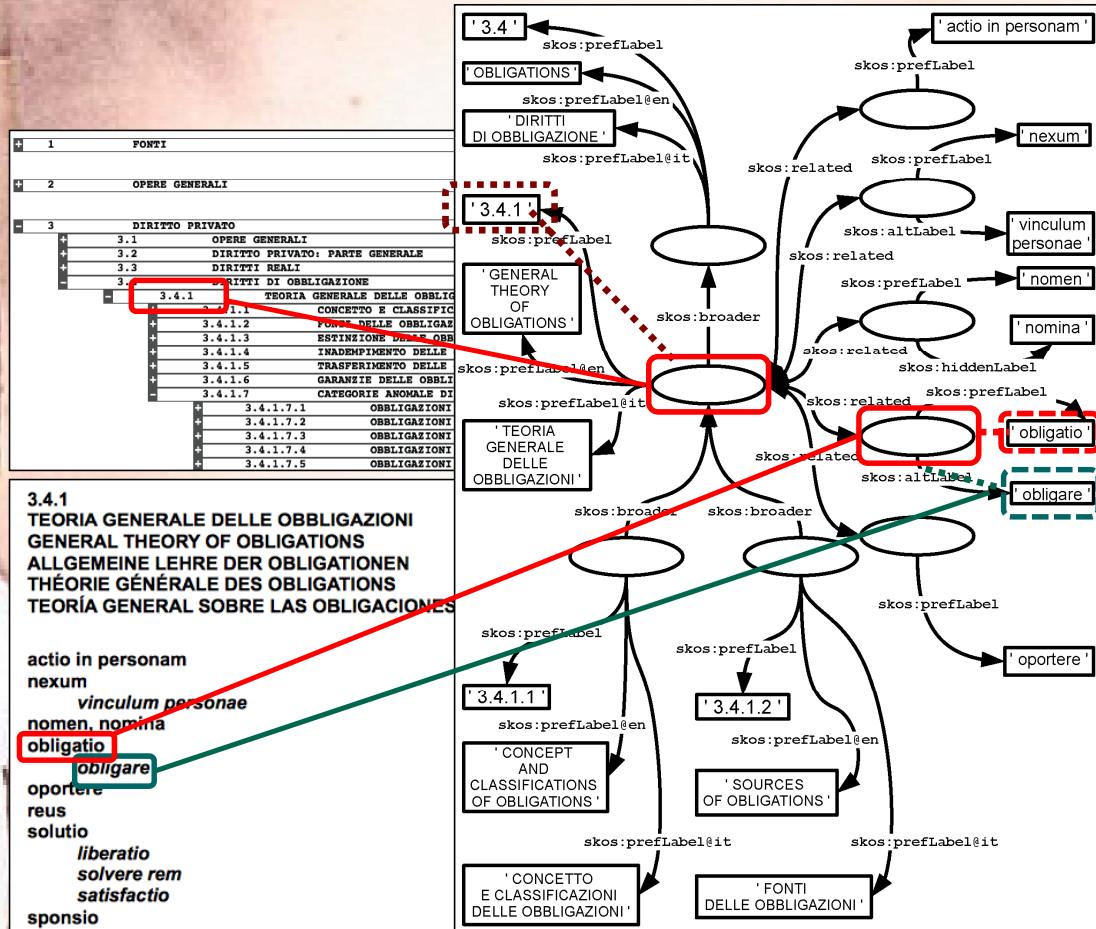
hierarchy from the general to the particular term

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BIA ~ Thesaurus



BIA ~ Thesaurus Conversion to SKOS



skos:concept

label of concept

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BIA ~ Fontes Encoded to TEI

Classics Law text

37 Fuit post eos maximae scientiae SEMPRONIUS, quem populus Romanus *σορδη* appellavit, nec quisquam ante hunc aut post hunc hoc nomine cognominatus est. GARUS SCIPIO NASICA, qui optimus¹¹ a senatu appellatus est: cui etiam publice domus in
10 sacra via data est, quo facilius consuli posset. deinde QUINTUS MUCIUS¹², qui ad Carthaginenses missus legatus, cum essent duae tesserae positae una pacis altera belli, arbitrio sibi dato, utram vellet referret Romam, utramque sustulit et ait Carthaginenses per-
38 tere debere, utram mallent accipere. Post hos

Marcum T
dum Qui
cumque eu
intellexiss
Mucio res
obiurgatu
turpe esse
quo versa
tactus³⁷ o
quibus lo
lio, instru

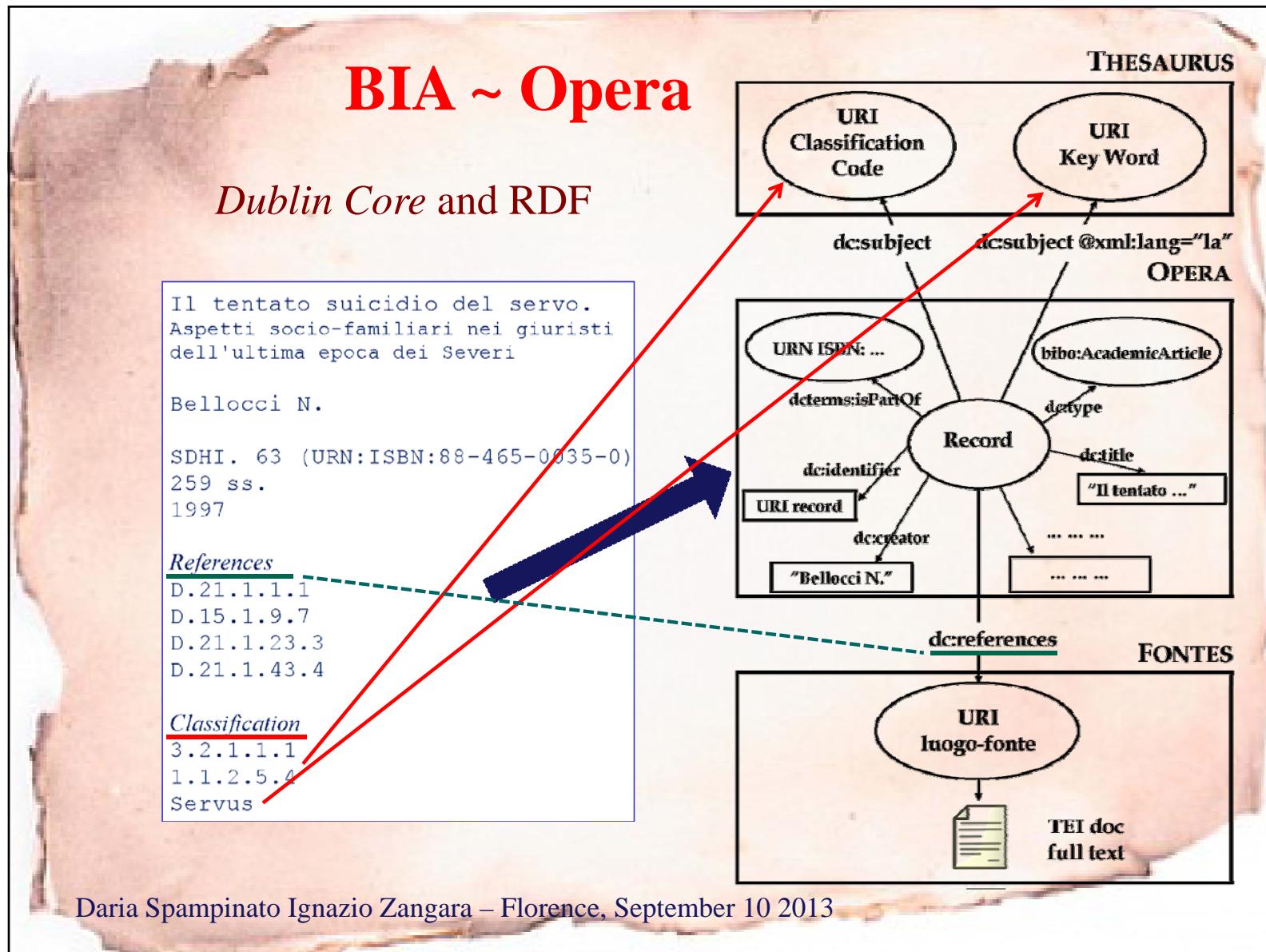
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BIA ~ Fontes Encoded to TEI

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                <p>DE ORIGINE IURIS ET OMNIUM MAGISTRATUUM ET SUCCESSIONE PRUDENTIUM</p>
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                <p>uit post eos maxime scientiae <name rend="sc">Sempronius</name>, quem populus
                    Romanus <foreign xml:lang="grc" rend="italic">&#x3C3;.&#x3C6;.&#x1F78;.&#x3BD;</foreign>
                    appellavit, nec quisquam ante hunc aut post hunc nomine cognominatus est.
                    <name rend="sc">Gaius Scipio Nasica</name>, qui optimus a senatu appellatus est: cui etiam publice
                    domus in sacra via data est, quo fabilius consuli posset. deinde <name rend="sc">Quintus Mucius</name>,
                    qui ad Carthaginenses missus legatus, cum essent duae tesserae positae una pacis altera belli,
                    arbitrio sibi dato, utram vellet referret Romam, utramque sustulit et ait Carthaginenses petere debere,
                    utram mallent accipere.</p>
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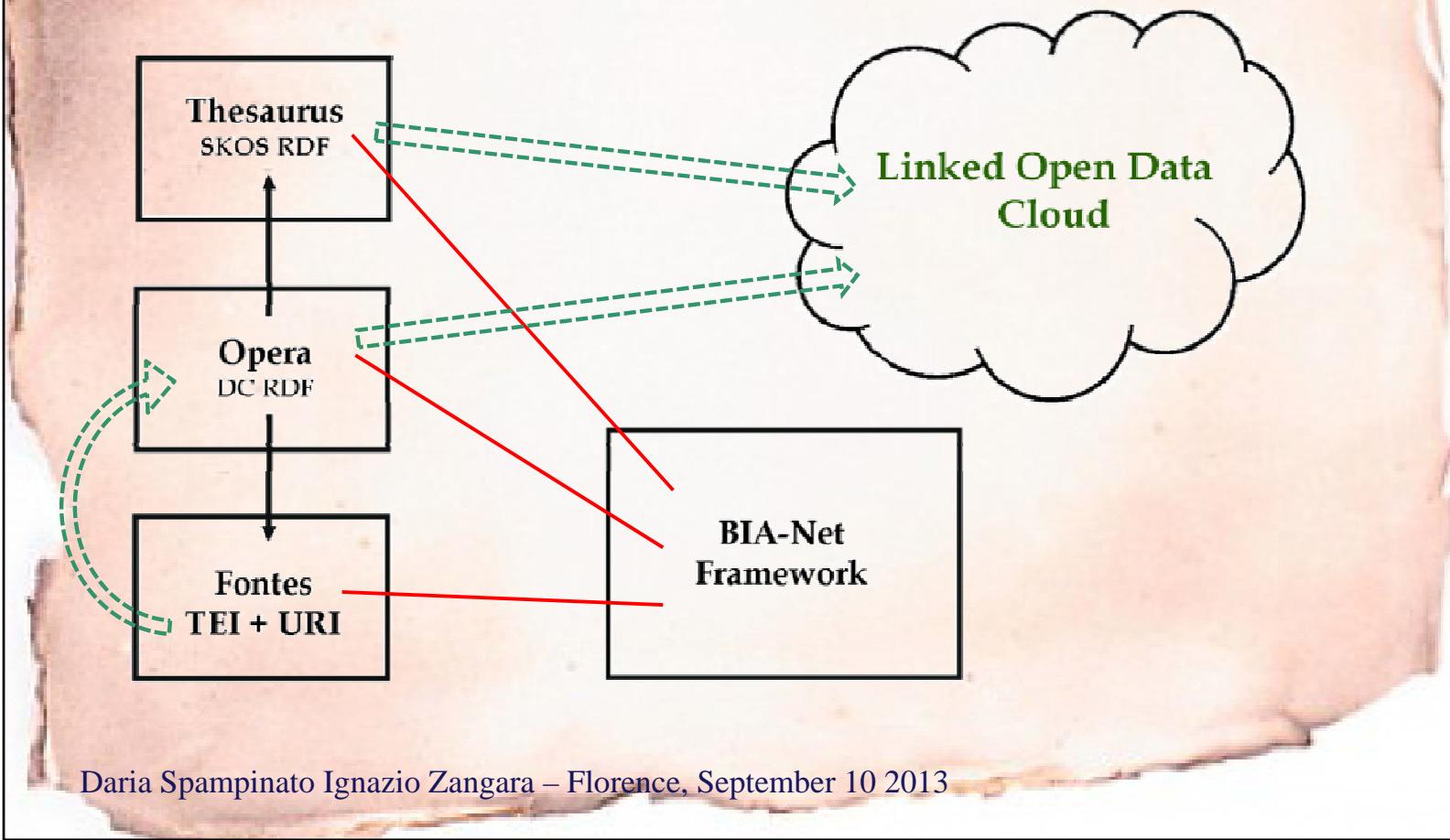
URI

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BIA-Net project ~ Results

two separate functions of the archives



BIA-Net project ~ Future works

We are working to satisfy Linked Data roles and LOD
conditions for Opera and Thesaurus archives

In our opinion, this project represents a contribution for
the development of a Classics Ontology

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Thank you

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Ignazio Zangara ~ *izangara@alex.unict.it*

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