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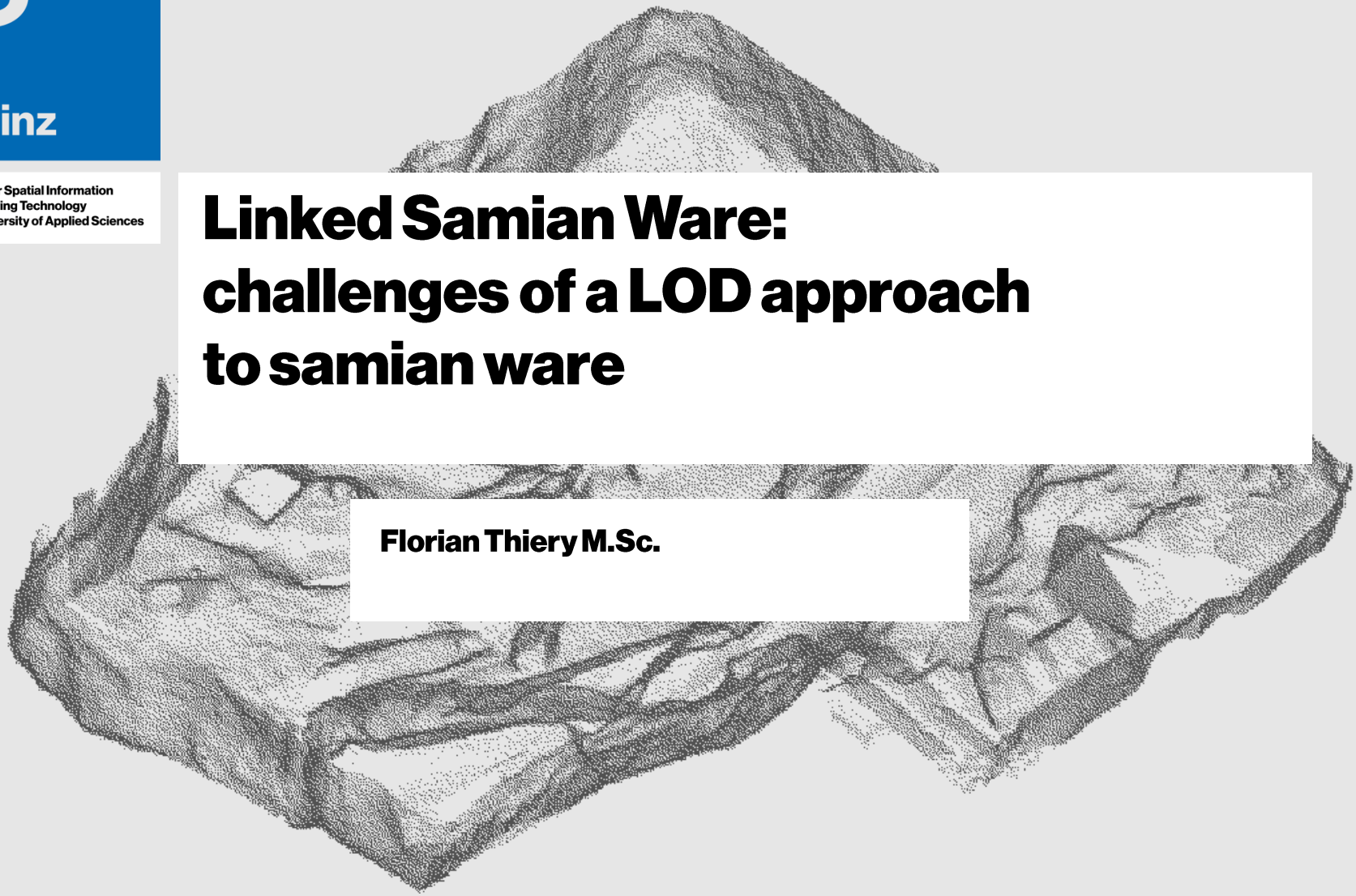
Institute for Spatial Information
and Surveying Technology
Mainz University of Applied Sciences

Linked Samian Ware: challenges of a LOD approach to samian ware



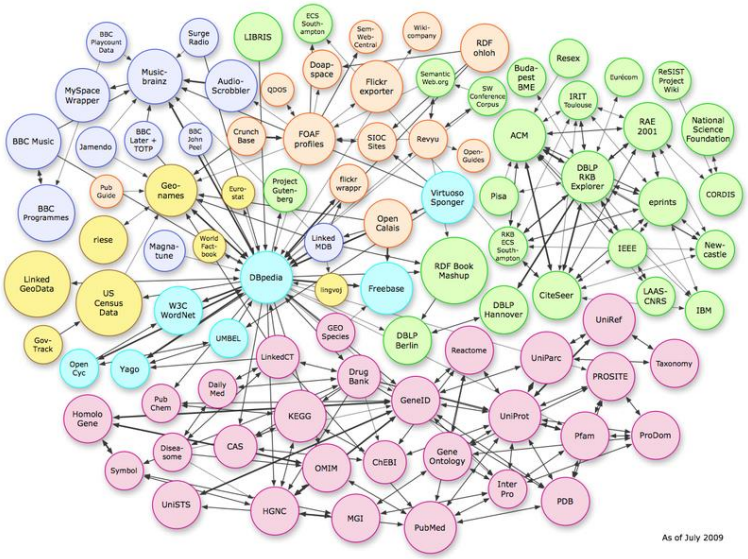
Florian Thiery M.Sc.

Who I am ??!

I am a GIS engineer and surveyor ...

http://gic.geog.mcgill.ca/files/2012/10/GIS_analysis_esri.jpg

... with interests in Semantic Web & LOD



http://www.bbc.co.uk/staticarchive/182def81ebb7559fba4d64b6e7d77fd34a4dd36b.png

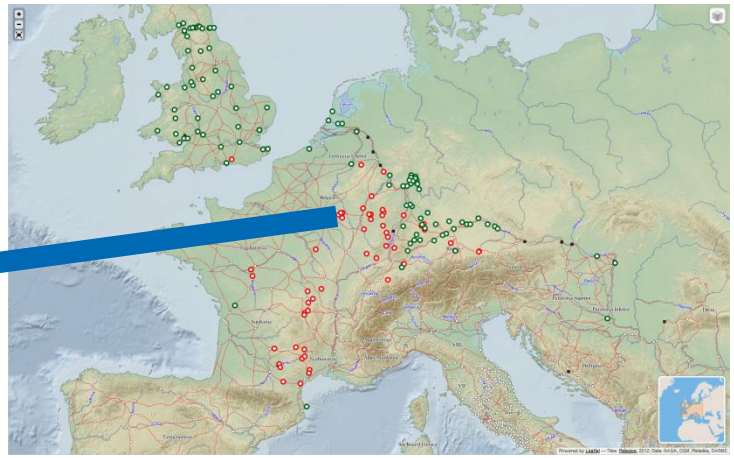
I wrote my master thesis on ...

... „Semantic Web and Linked Data: Creation of interoperability in archaeological expert data demonstrated by the example of roman pottery dies“ ...

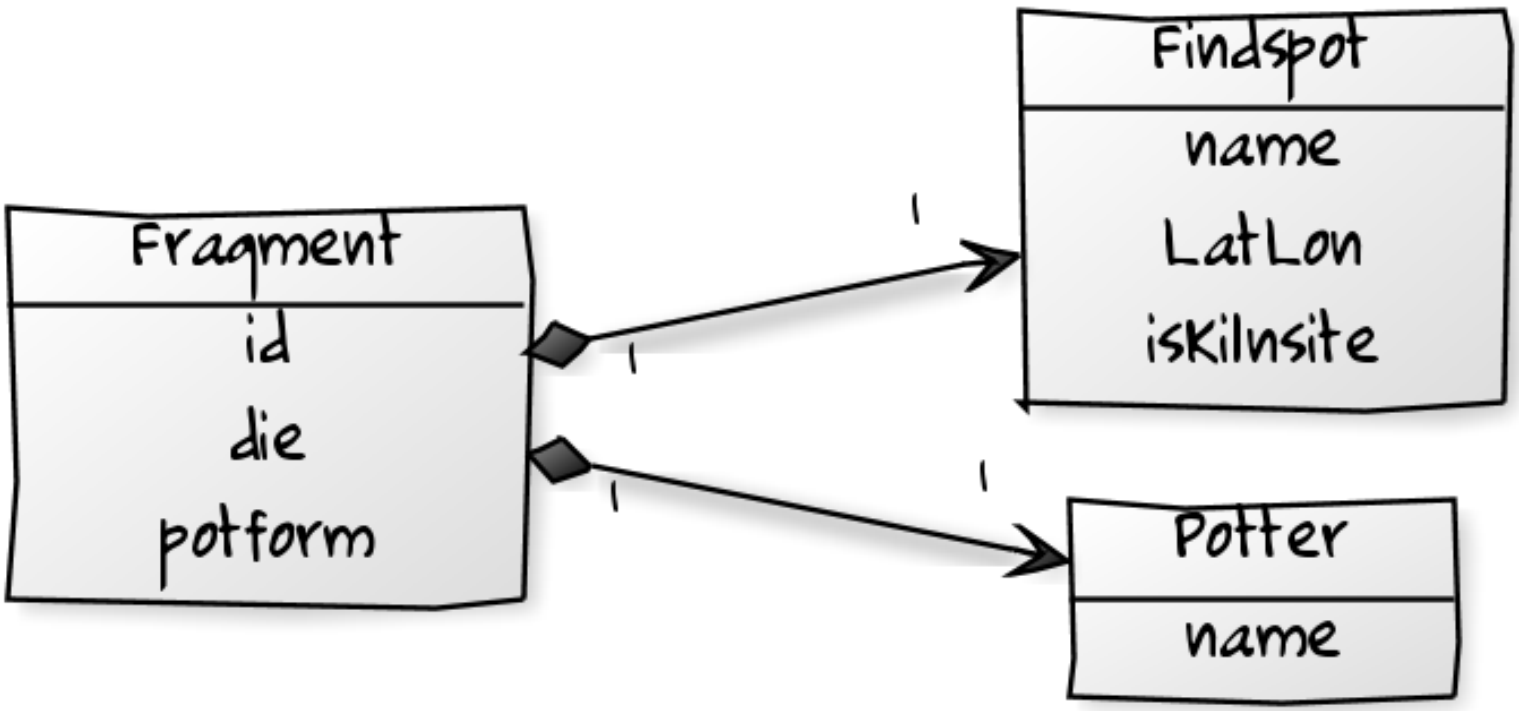
... using data of an international group of researchers, comprises detailed and reviewed data of potters, pots and related places in the northern provinces of the Roman Empire.

The goals...

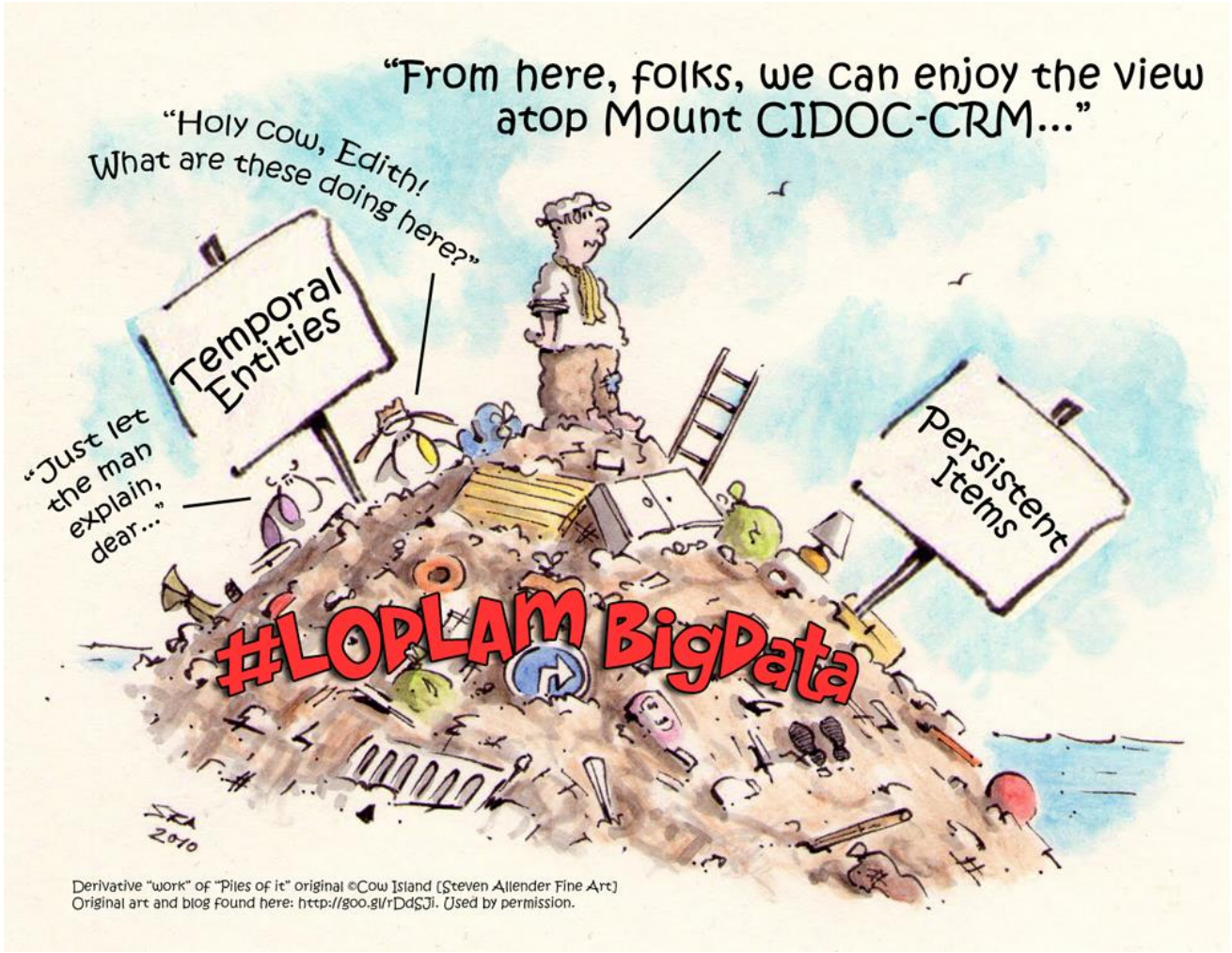
- migrate a subset of these data into a LOD structure and make it accessible through URIs
- the subjective semantic relations between potters, pots and places should be visualized in the predicate appelation of linking
- the resources should be linked to existing LOD projects using the Semantic Web to get additional information



The structure...

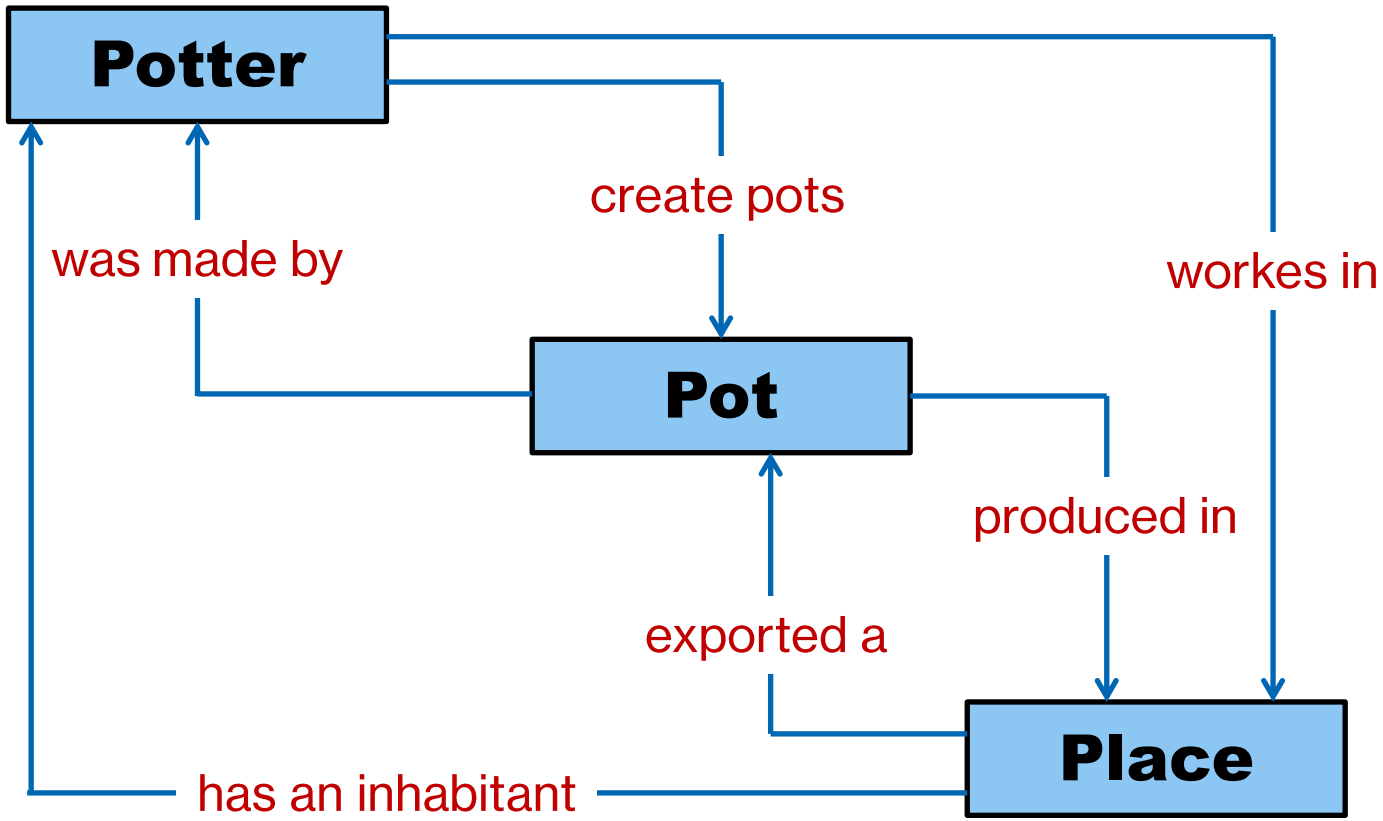


Modelling proposal ONE: CIDOC CRM

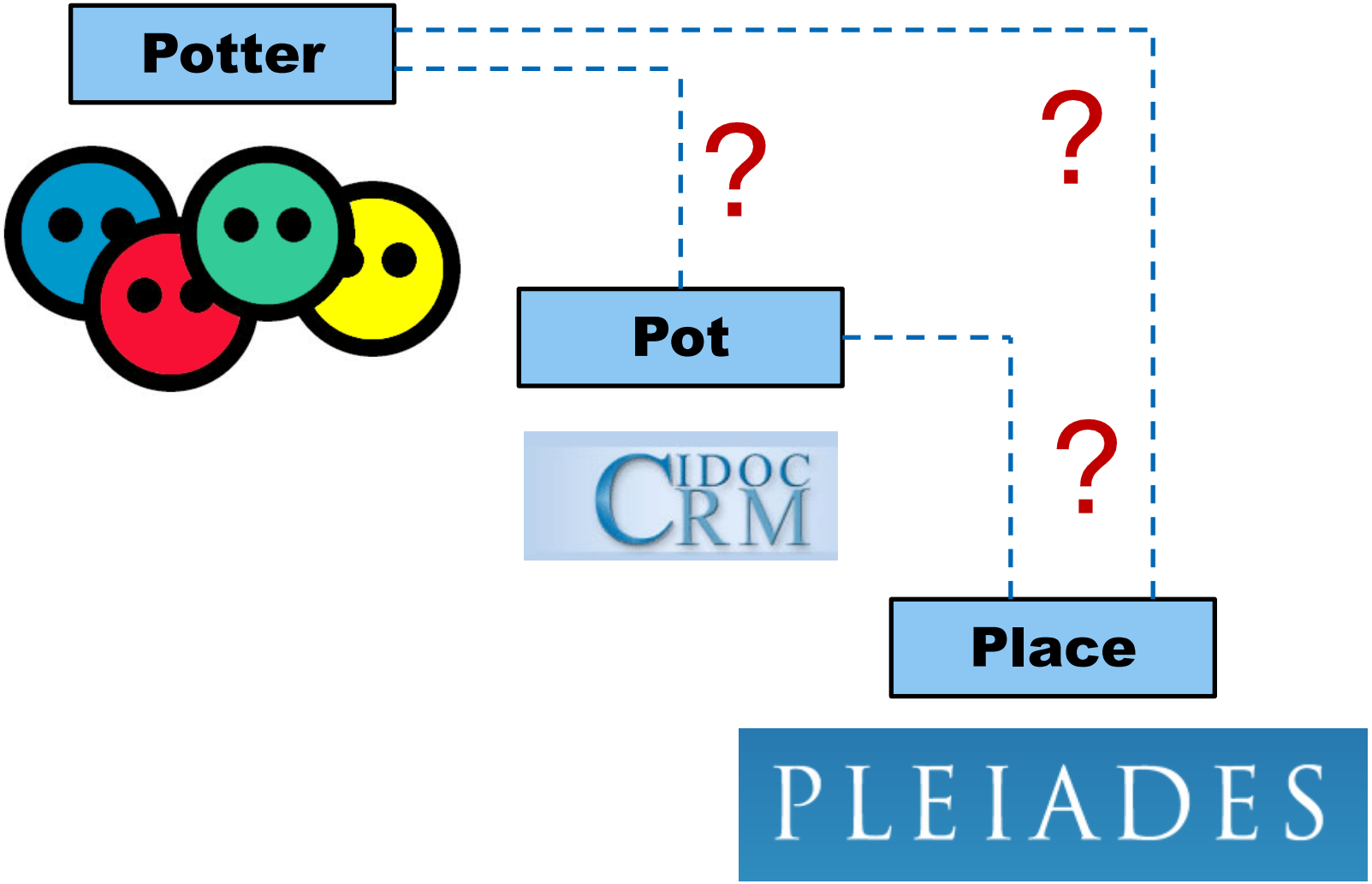


http://www.factminers.org/sites/default/files/images/cidocCRM_classes_cartoon.png

Modelling proposal TWO: own Ontology



Modelling proposal THREE: using existing ontologies in the world wide web



My modelling proposal: The Labeling Approach

SKOS Concept

is a

potter@en

- potters
  http://vocab.getty.edu/aat/300025414
- samian ware
  http://vocab.getty.edu/aat/300387379

findspot@en

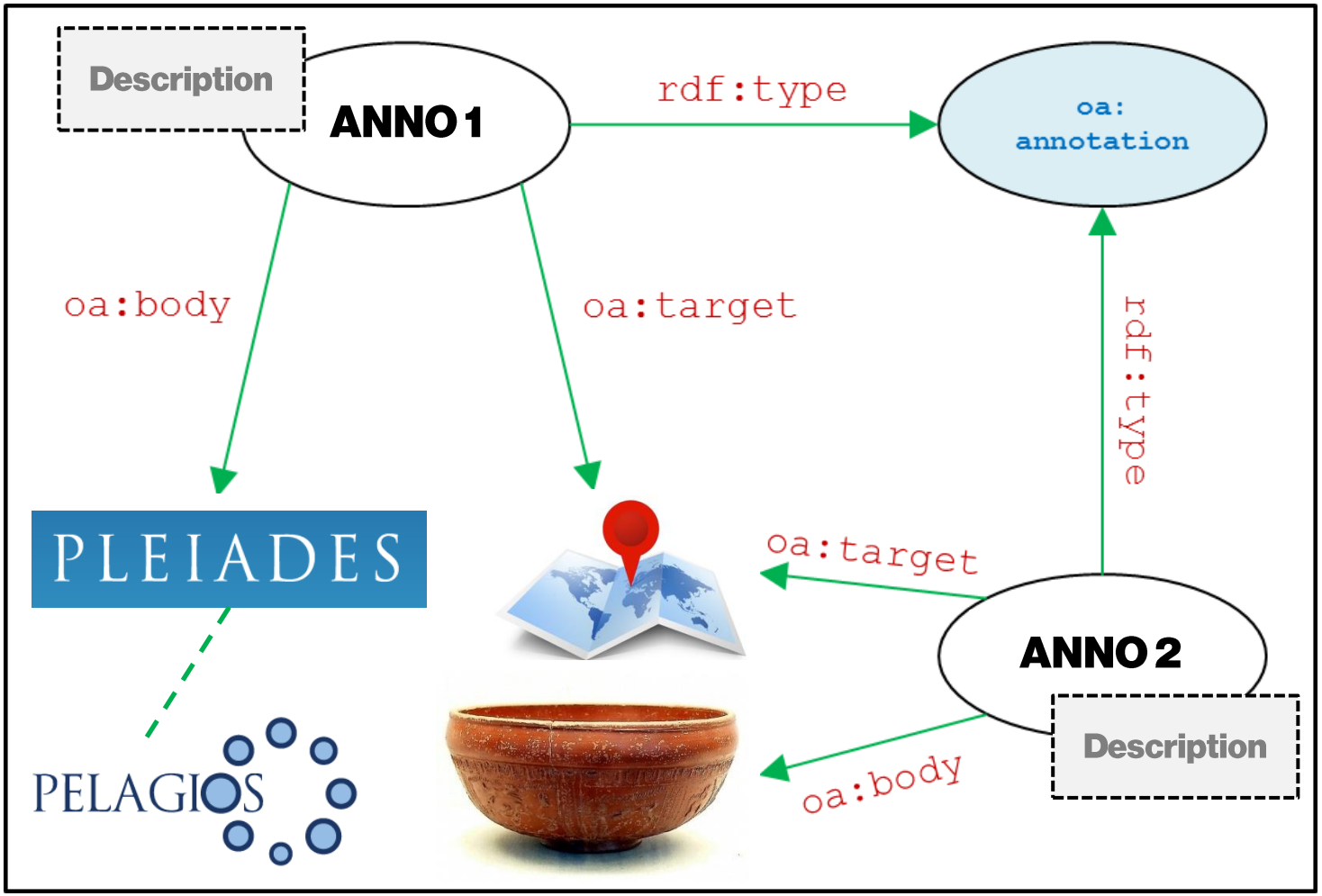
- Archaeological Site
  http://dbpedia.org/page/Archaeological_site

is a

kilnsite@en

- samian ware
  http://vocab.getty.edu/aat/300387379
- Kiln
  http://dbpedia.org/page/Kiln

Semantically linking using Open Annotation ...



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There are still some problems ...

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- Pleiades provides a large number of places to support geographical annotations in textual sources or archaeological objects
- Projects like Pelagios harvest place data on the same Pleiades place and builds it connections to a web of Linked Open Data

-

- missing web accessible repositories and thesauri for pottery (fragments, dies, vessels)

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More information at ...

- **http://caa2015.linkedgeodesy.org**
- **http://kerameikos-project.blogspot.de/2014/11/linked-samian-ware-challenges-of-lod.html**