

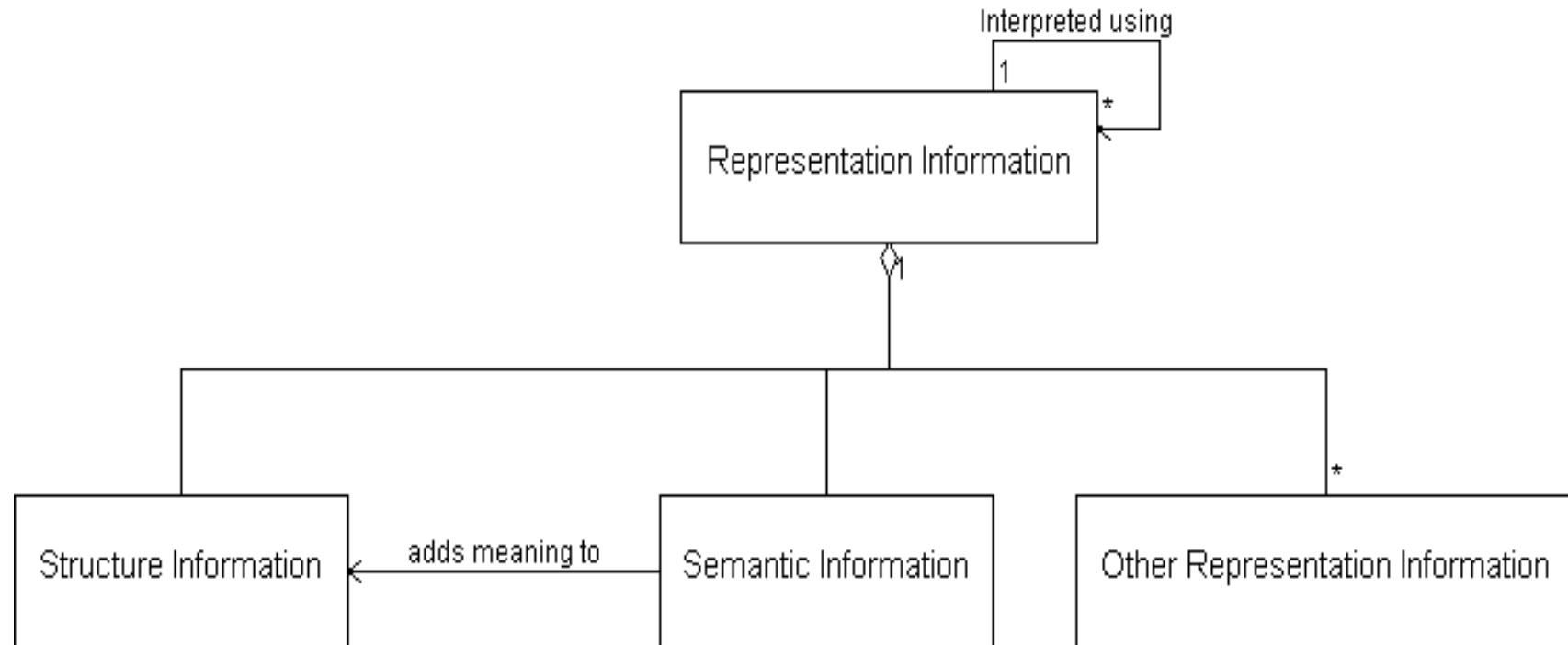
# Representation Information (RepInfo)

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## Outline

- OAIS Representation Information and Representation Information Networks
- Organisation of Existing Representation Information
- Structure and Semantics Example
- RepInfo Network Example
- CASPAR/DCC RepInfo Registry/Repository
- CASPAR/DCC Tools for curating RepInfo
- CASPAR/DCC RepInfo Tools Training Material

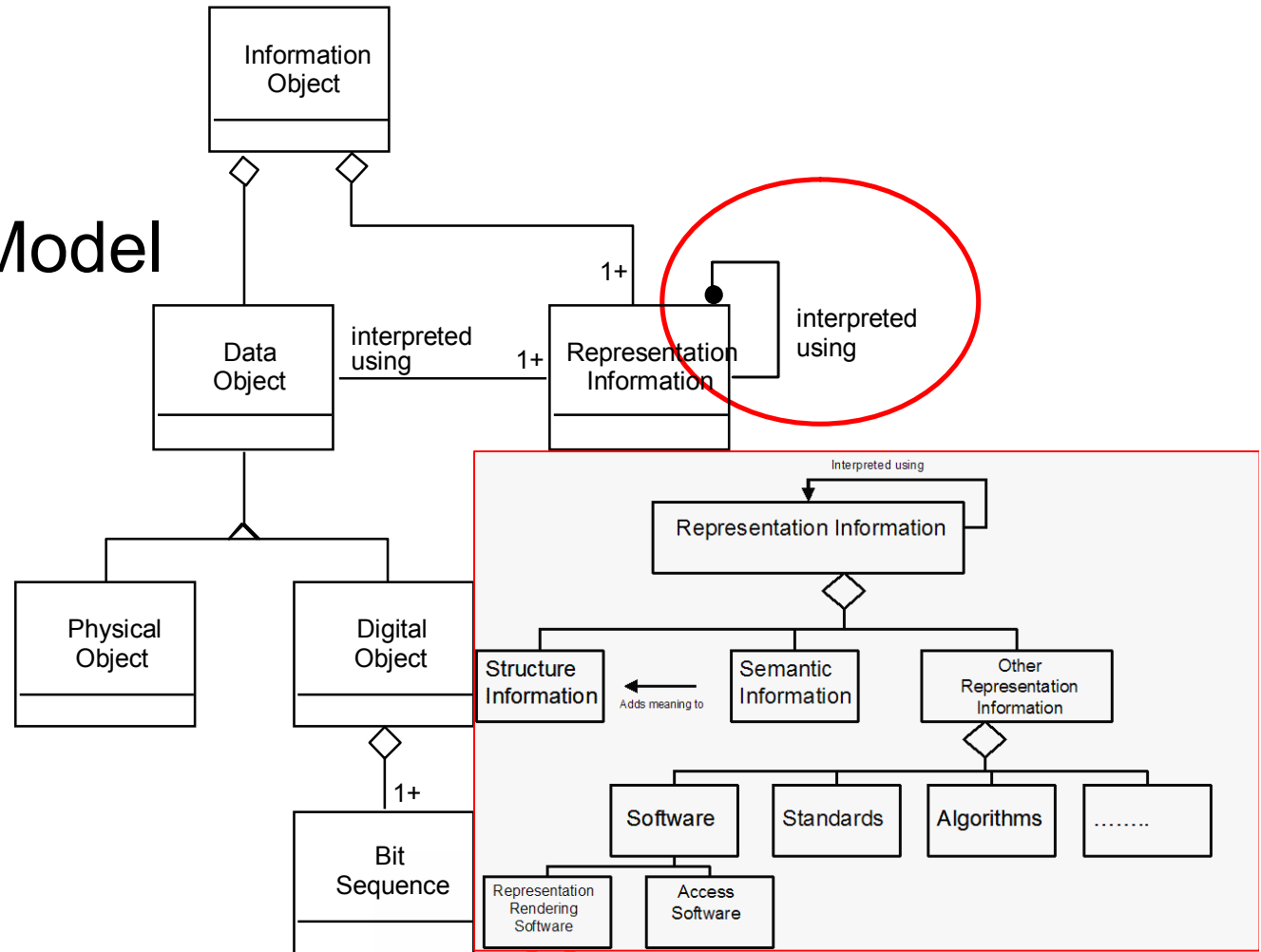
# OAIS Representation Information and Representation Information Networks



## The Information Model is key

Recursion ends at  
KNOWLEDGEBASE of the  
DESIGNATED COMMUNITY

(this knowledge will change  
over time and region)



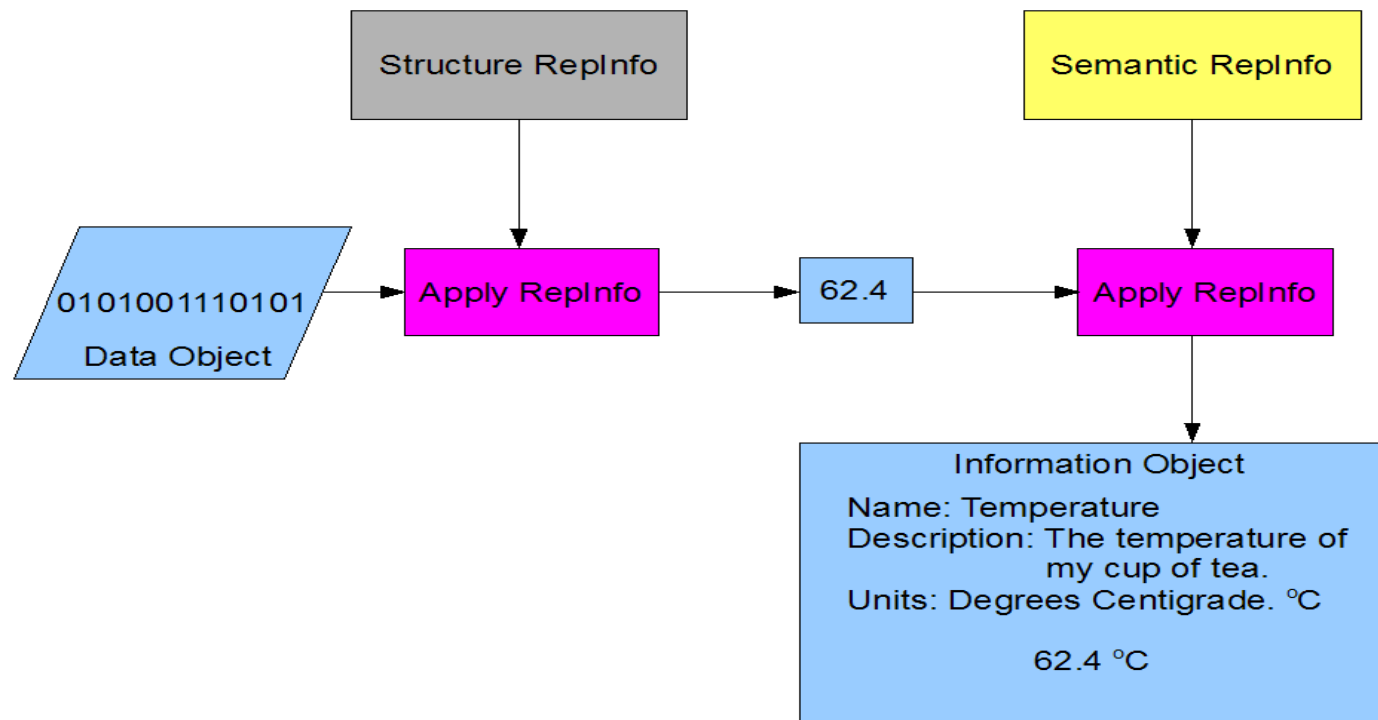
# Organisation of Existing Representation Information

- ReplInfo can be any type of object, a PDF document, software, text, xml etc.
- In its basic form it is just the existing information about the data.
- So curating ReplInfo can be viewed as classifying and organising existing information about data.
- ReplInfo is the only thing that can allow data to be reused.
- ReplInfo some can be shared and reused.

# RepInfo for a Hot Cup of Tea



# RepInfo for a Hot Cup of Tea





# UNESCO Villa Livia Data



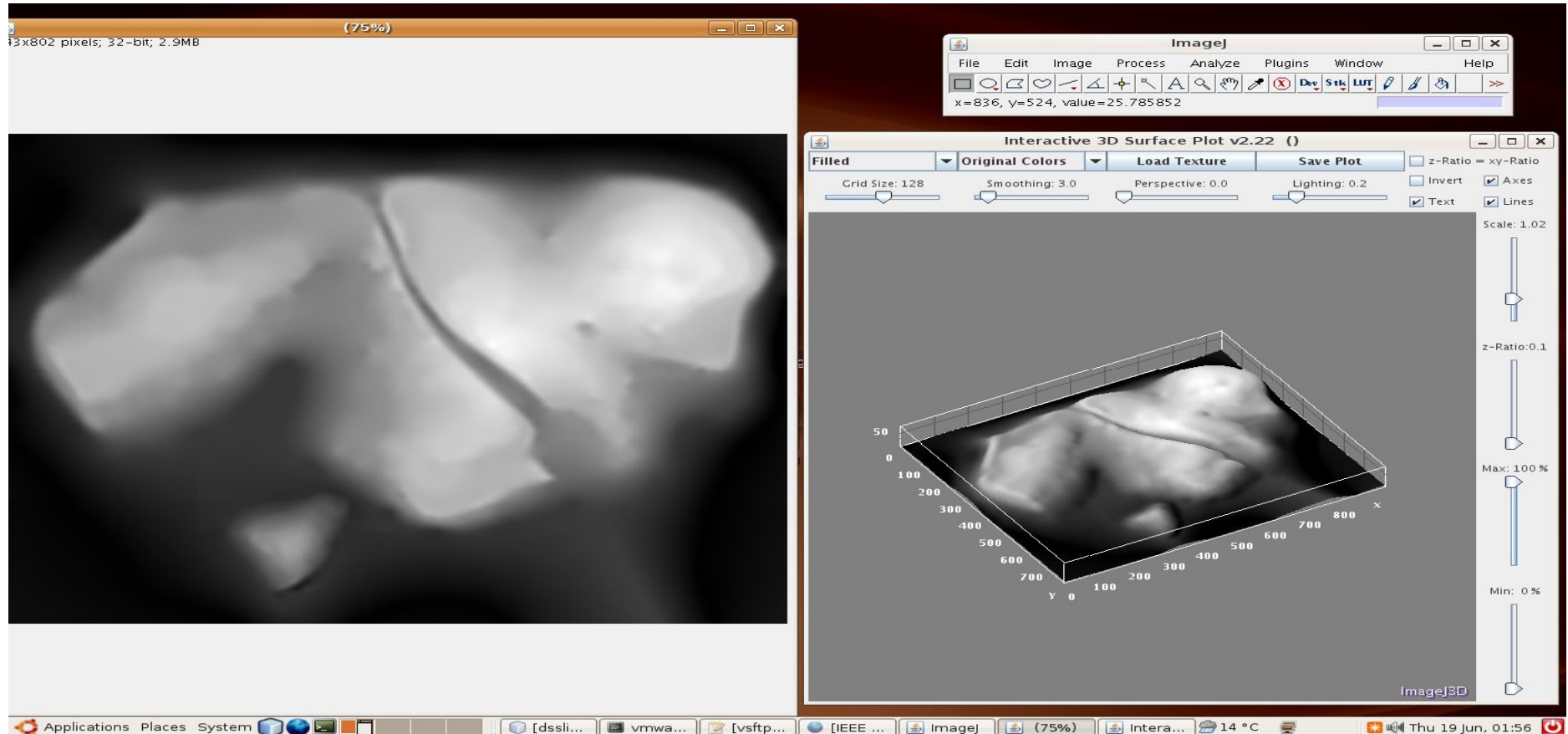


## Villa Livia Data

- 3D point clouds (formats: imp, dxf, dwg)
- Elevation grids (agr, bt)
- 3D meshes (mdl, vrml, v3d)
- Textured 3D models (max, pmr, ive, osg)
- Satellite data (ers, ecw)
- GPS data, maps (txt, apm, shp)
- Digital images (targa, jpeg, tiff, png, psd, bmp, gif, dds)

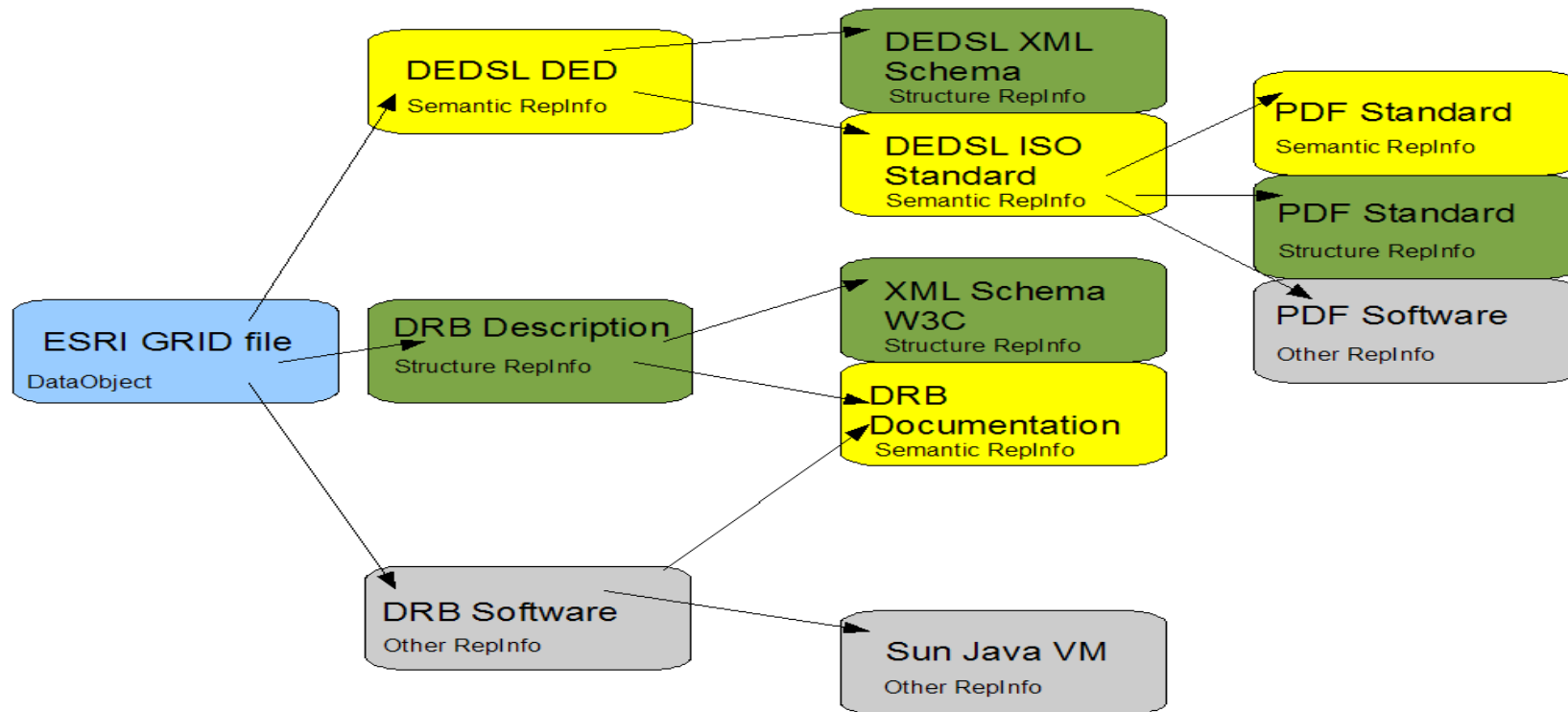
Total data size approximately 500 GB

# UNESCO Villa Livia Data



# RepInfo Network Example

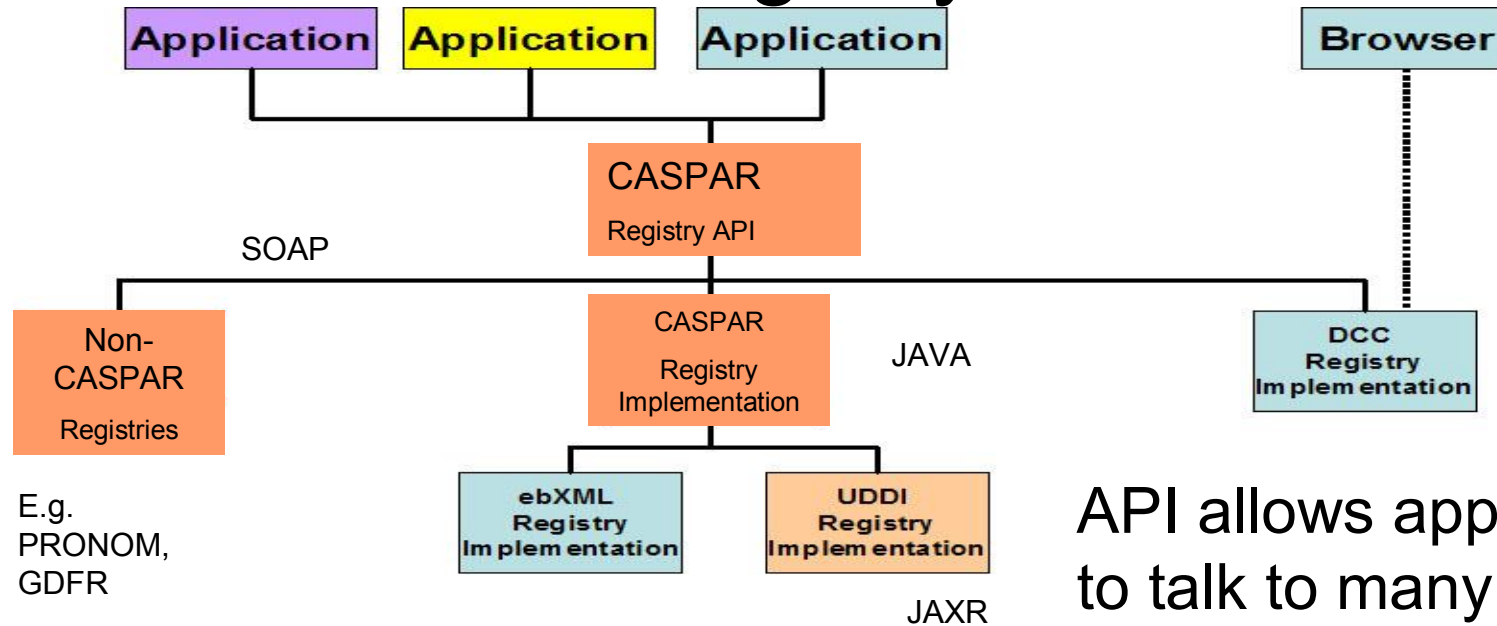
Elevation Grid Data – UNESCO Villa Livia



## CASPAR/DCC RepInfo Registry/Repository

- Allows you to stores and retrieve RepInfo and RepInfo Networks.
- Facilitates the sharing and reuse of Repinfo – unique identifiers for RepInfo (CPIDs).
- Has an API (software interfaces) to allow you to communicate with it.
- Currently implemented with OASIS ebXML Registry software (FreebXML) and JAXR API.
- API could be implemented with any registry software.
- Web Interface at <http://registry.casparpreserves.eu>
- Registry software and API available in the CASPAR SVN Code Repository: <http://developers.casparpreserves.eu:8080/>

# Registry API



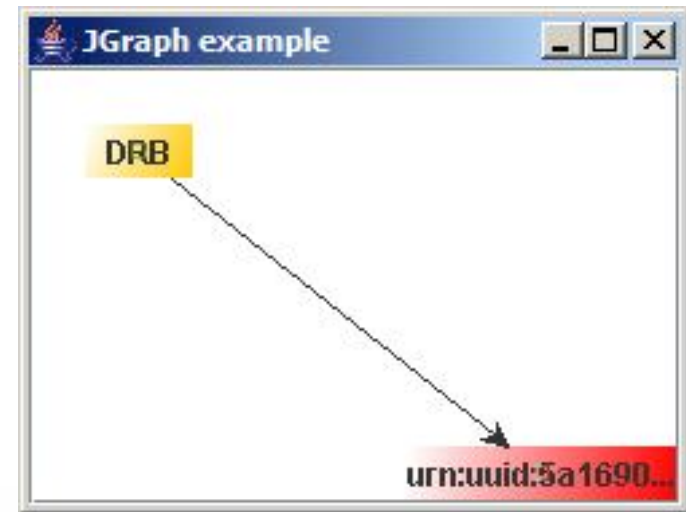
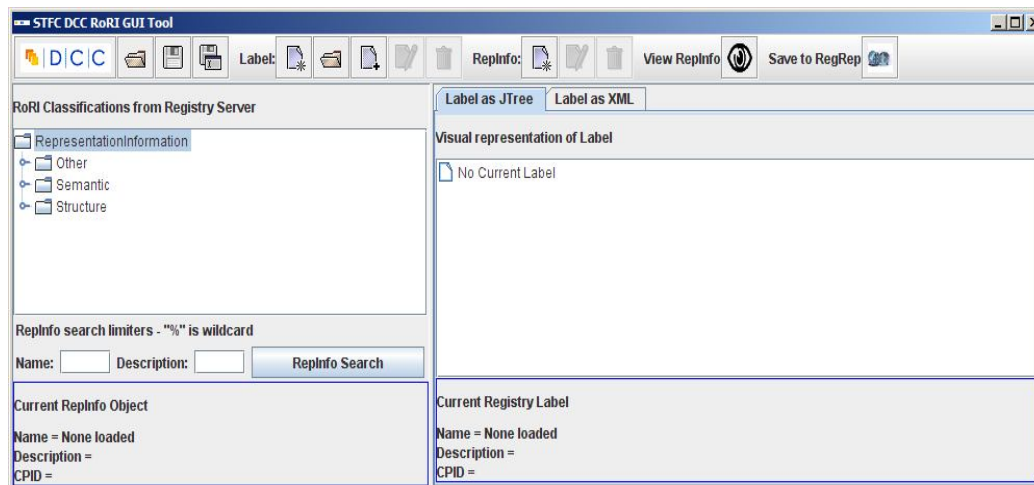
API allows applications to talk to many different implementations

## CASPAR/DCC Tools for curating RepInfo

- Java GUI Tool for adding or retrieving RepInfo and RepInfo networks to/from the RepInfo Registry.
- It also allows you to visualise RepInfo Networks that exist within the Registry.
- Links to applications that allow you to view the RepInfo.
- Allows you to retrieve the unique identifier (CPID) for the RepInfo.

# RepInfo GUI Tool

Registry visualisation, searching and display of contents using GUI tool(s)





# CASPAR/DCC RepInfo Tools Training Material

- Video tutorials of using the RepInfo GUI tool
- Documentation tutorial for using the RepInfo GUI tool.
- Brain Training Game for RepInfo
- Video tutorial of using RepInfo creation tools (creating structure and semantics).
- Packaging tutorial.
- More under construction – Programming guides etc.
- All very much under development but a preview for the material is available at:  
<http://twiki.dcc.rl.ac.uk/bin/view/Main/TheStoryPlanAndPresentation>
- Or we can come to you or you can come to us for a tutorial on our tools. You just need to ask!