

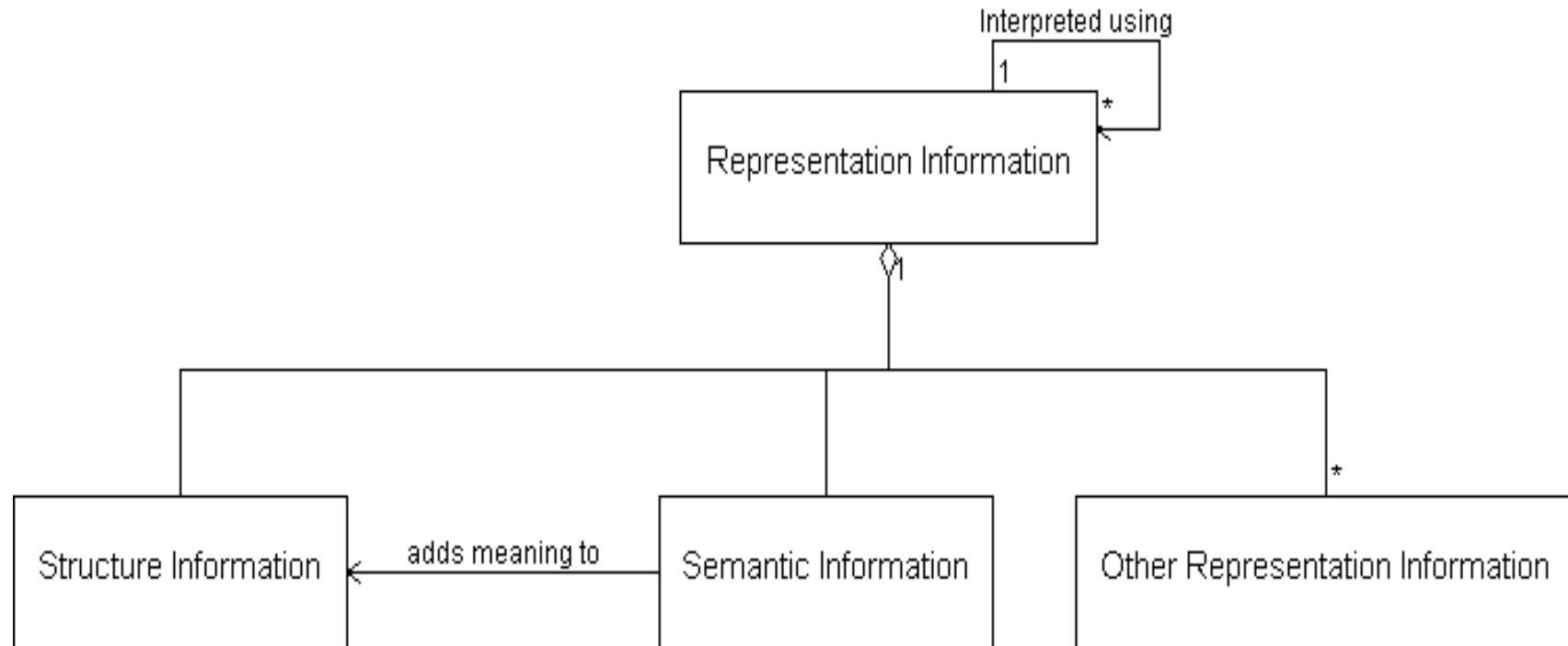
Representation Information (RepInfo)

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CASPAR and DCC

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

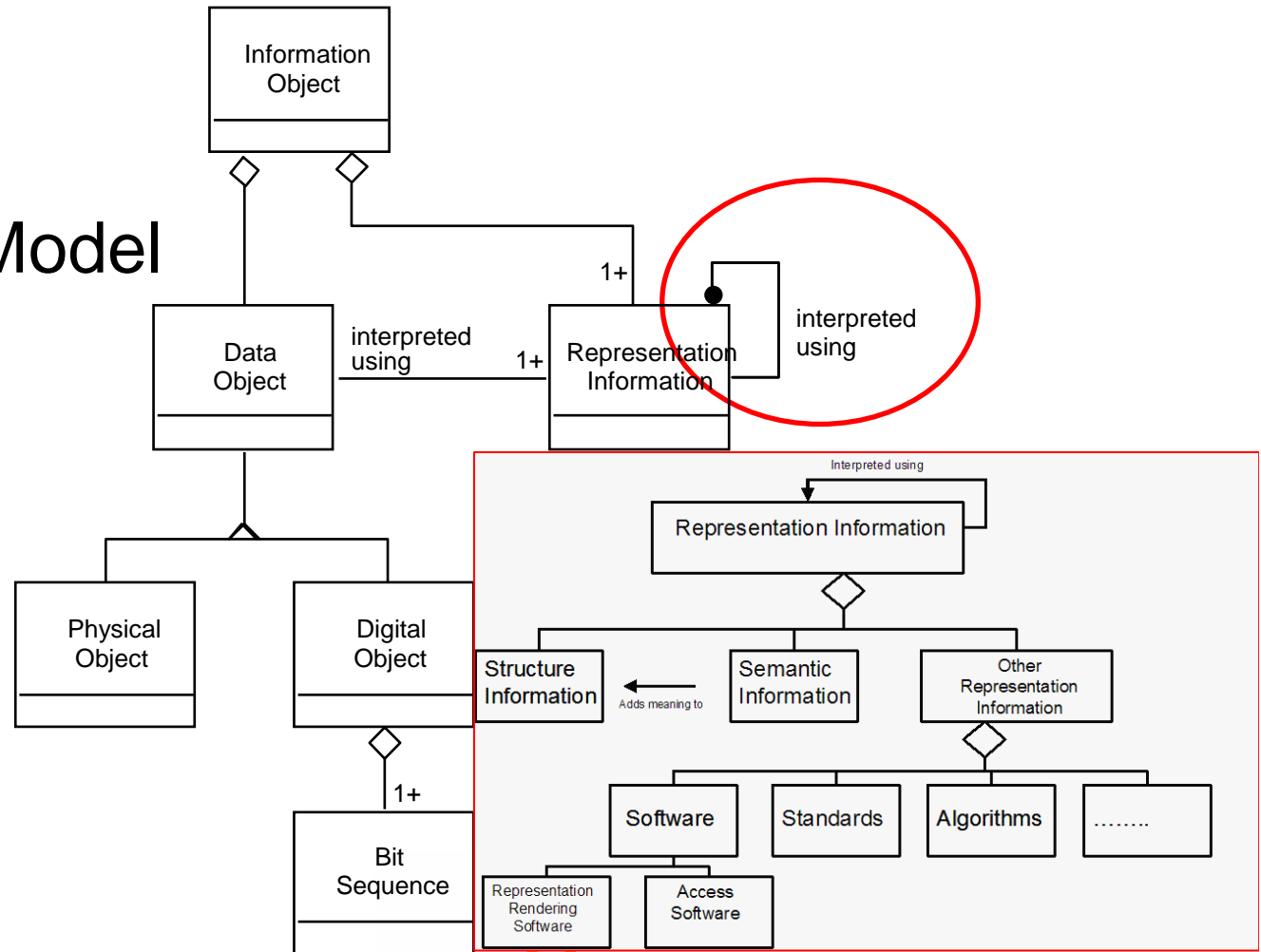
OAIS Representation Information and Representation Information Networks



The Information Model is key

Recursion ends at
KNOWLEDGEBASE of the
DESIGNATED COMMUNITY

(this knowledge will change
over time and region)



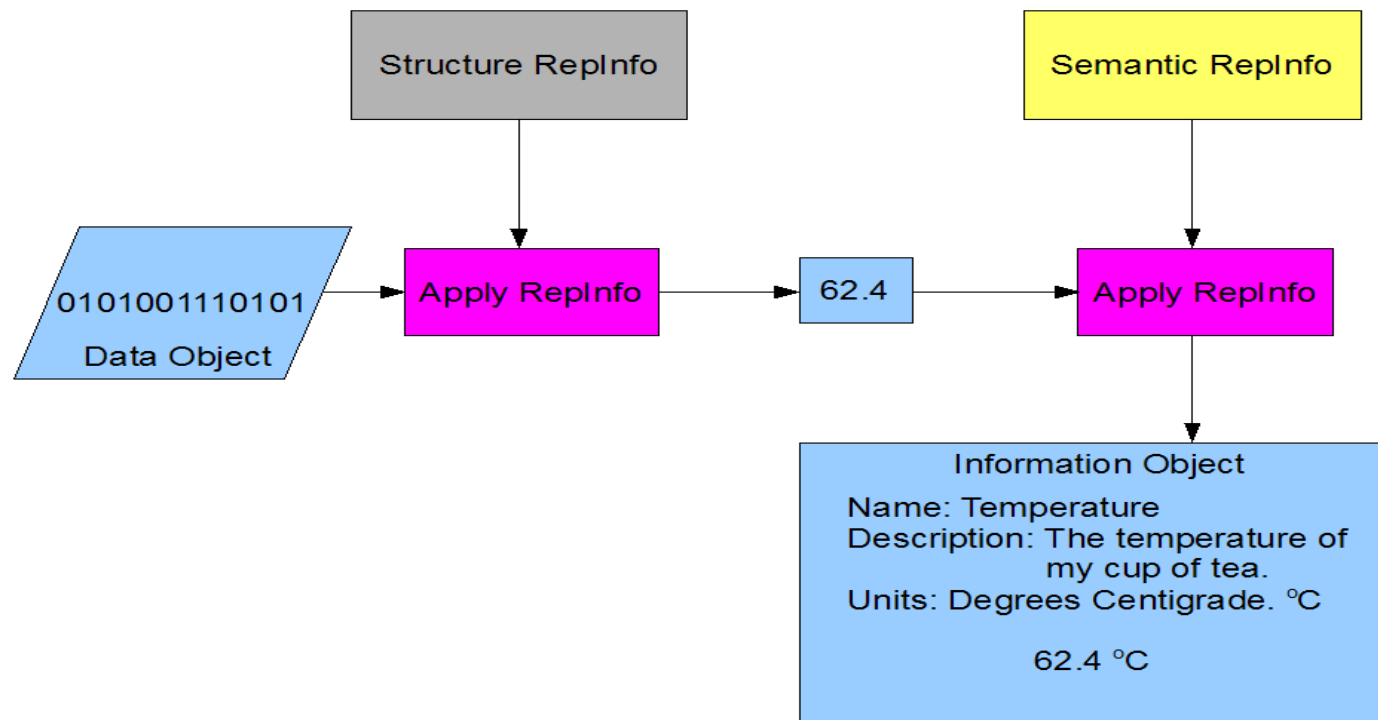
Organisation of Existing Representation Information

- 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

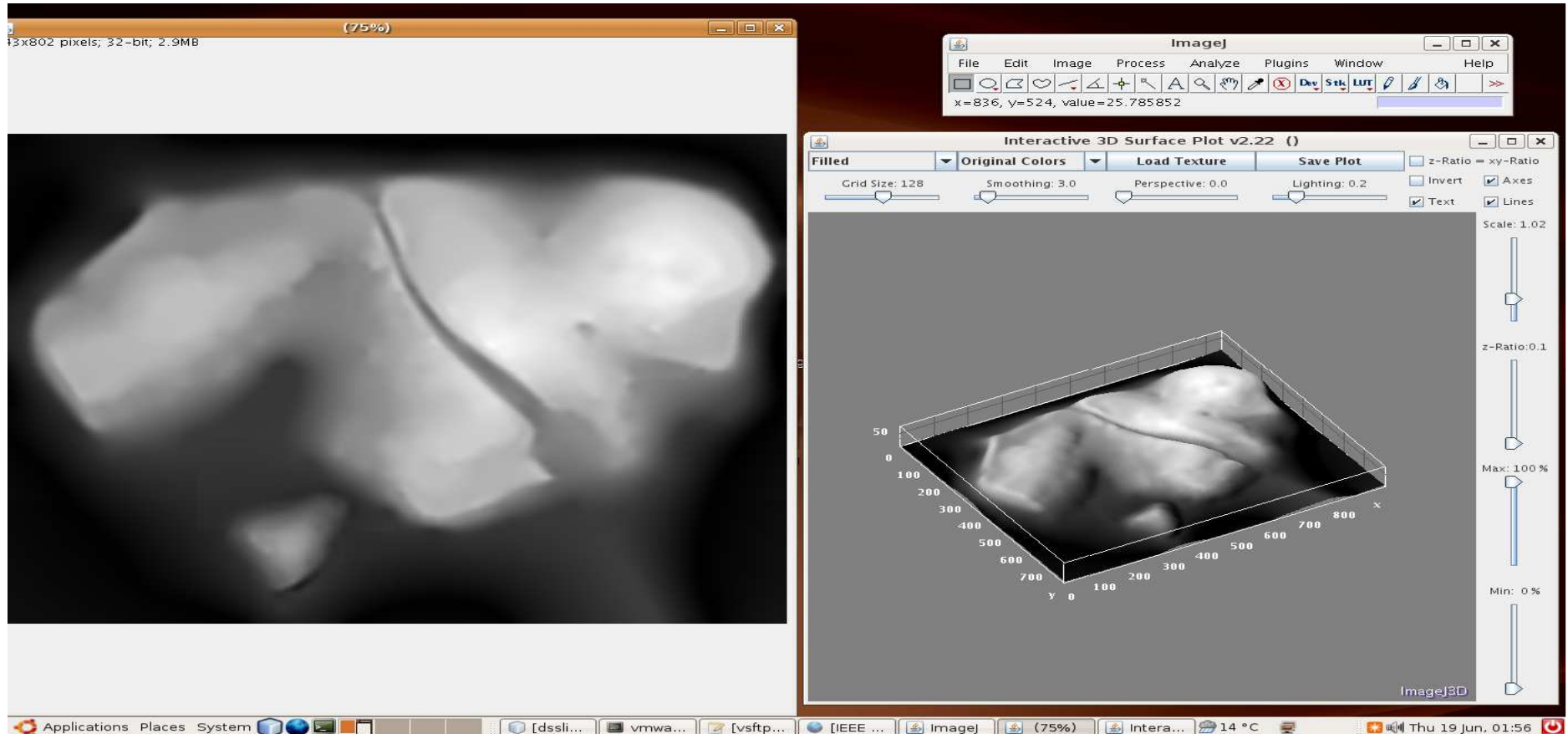


Villa Livia Data

- 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)

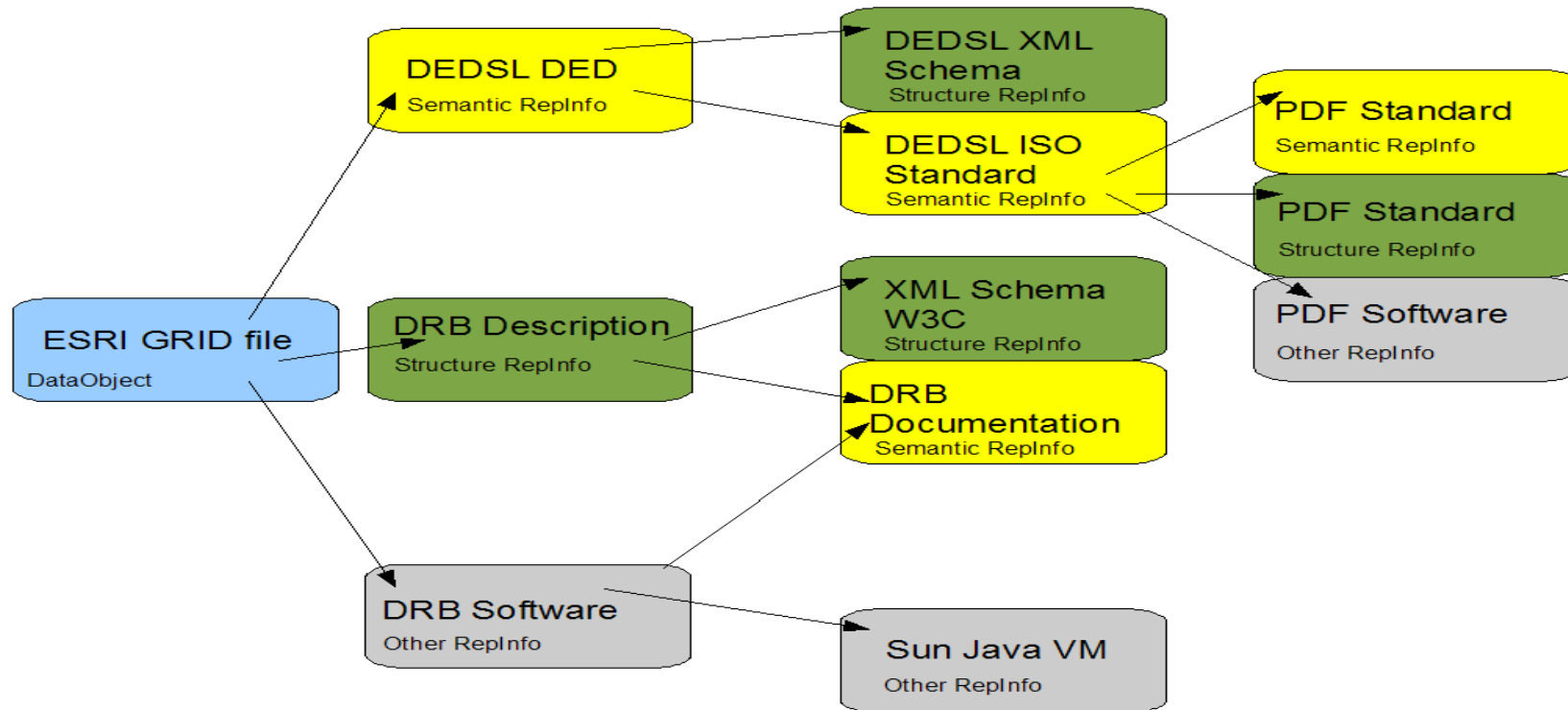
Total data size approximately 500 GB

UNESCO Villa Livia Data



RepInfo Network Example

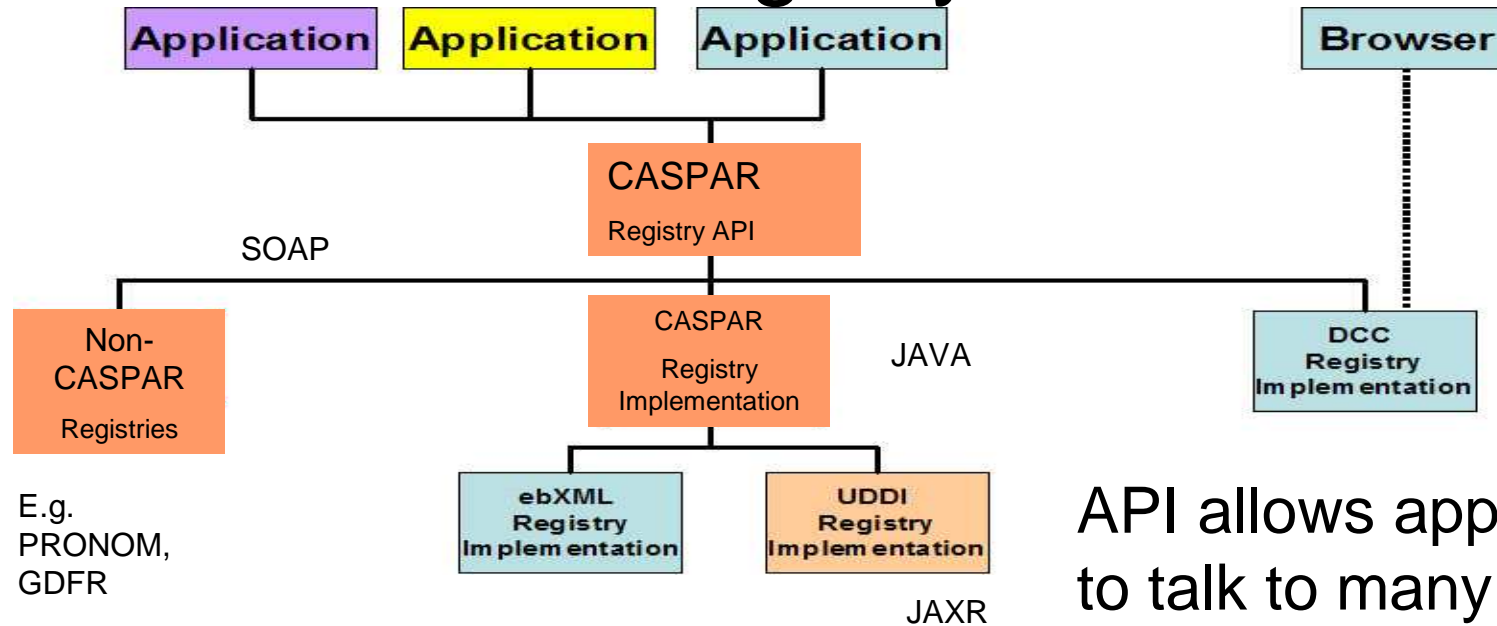
Elevation Grid Data – UNESCO Villa Livia



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



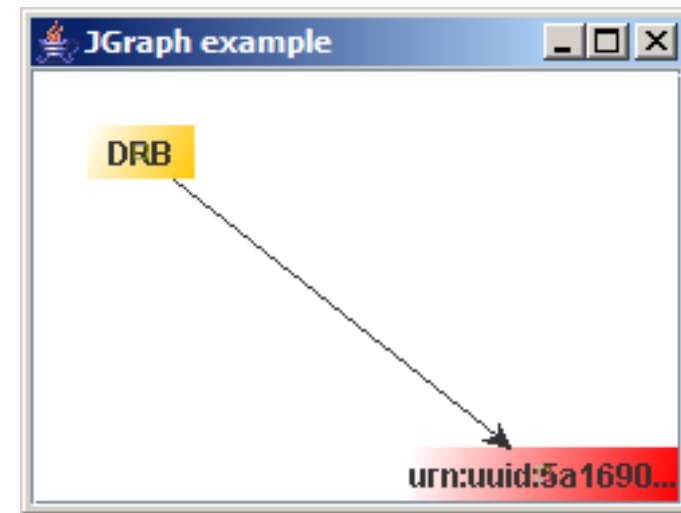
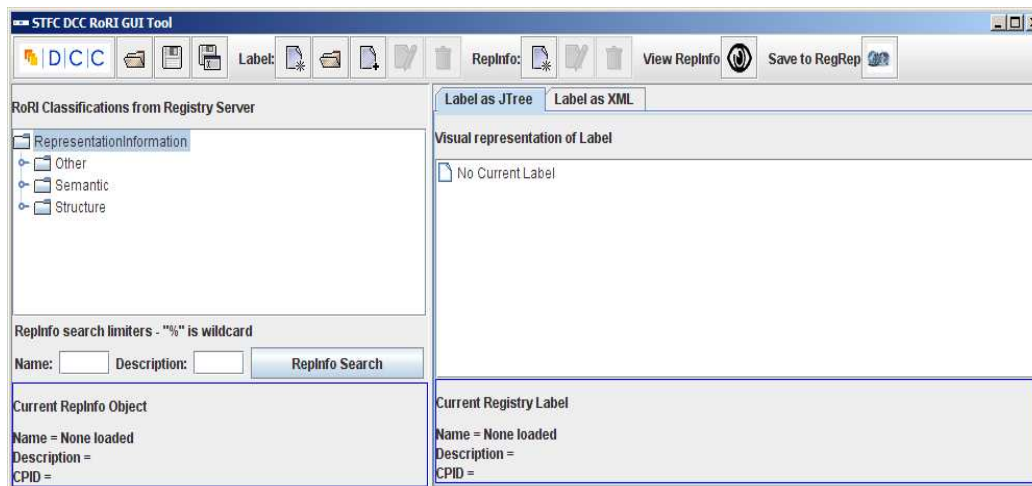
API allows applications to talk to many different implementations

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!