



Global Registries Initiative

CNI Fall Taskforce Meeting
Washington DC, 8 December 2008

Jeremy Frumkin

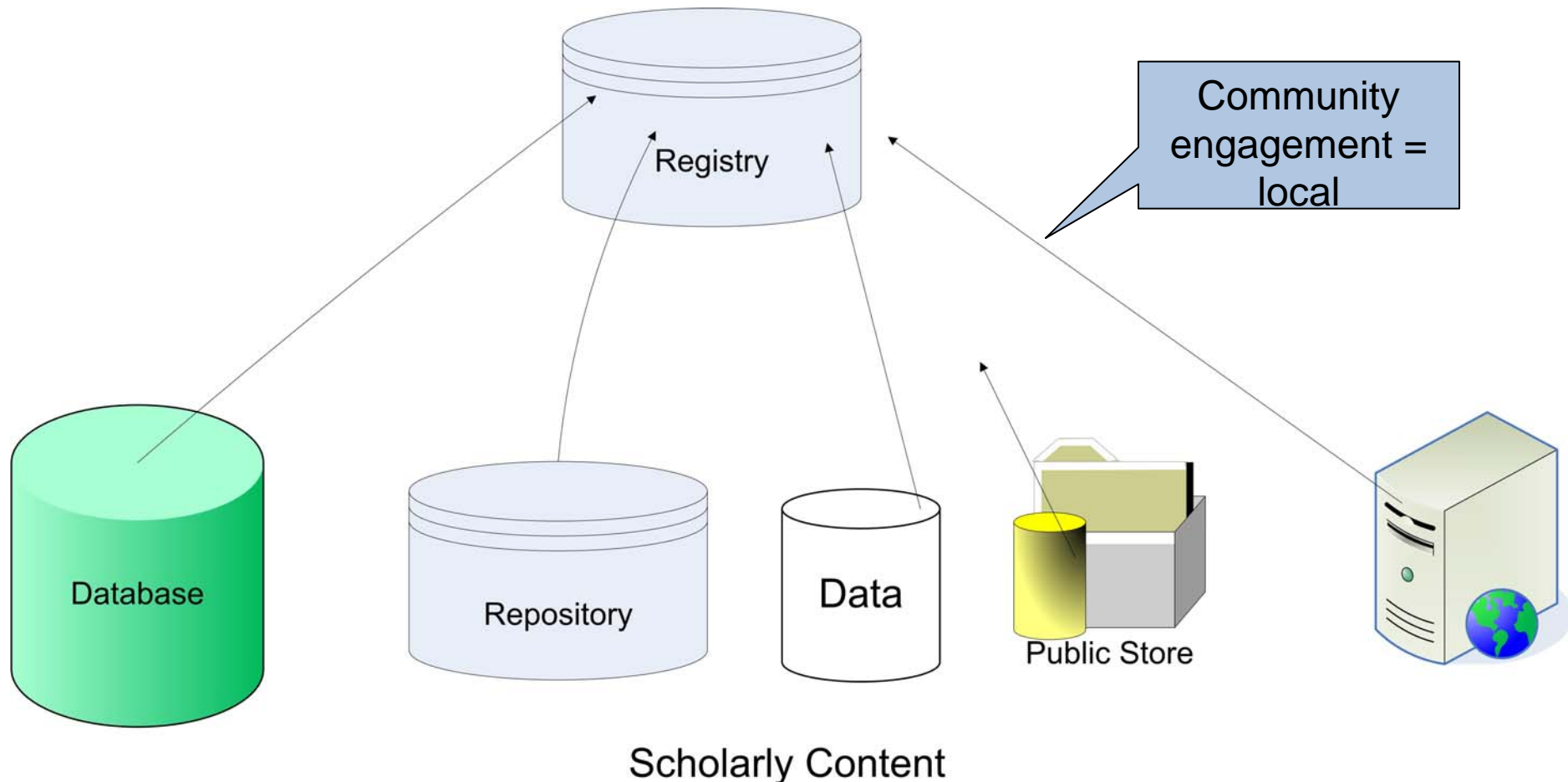
Adrian Burton

Registries



Registries

The ones that register information about scholarly collections...



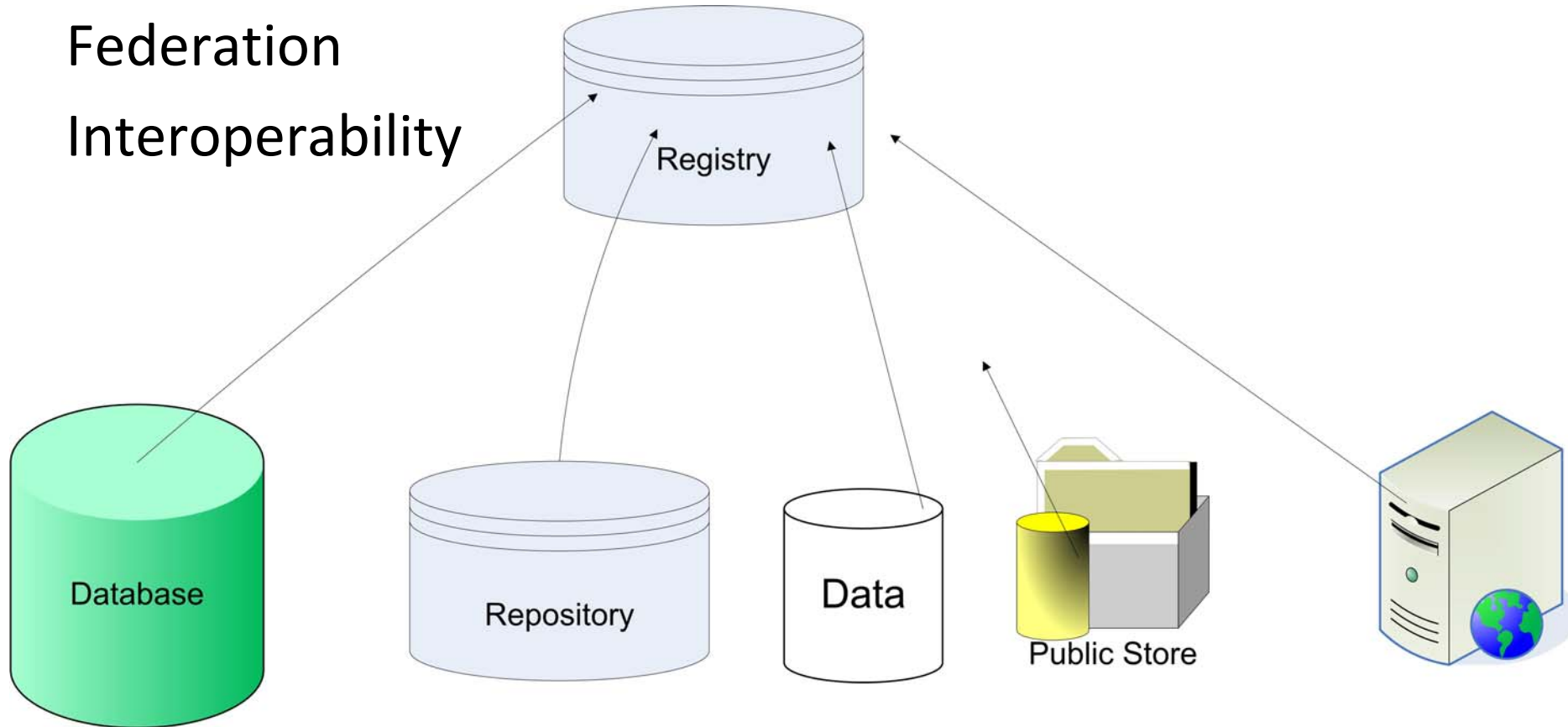
Registries

Discovery/ visibility

Information brokerage

Federation

Interoperability

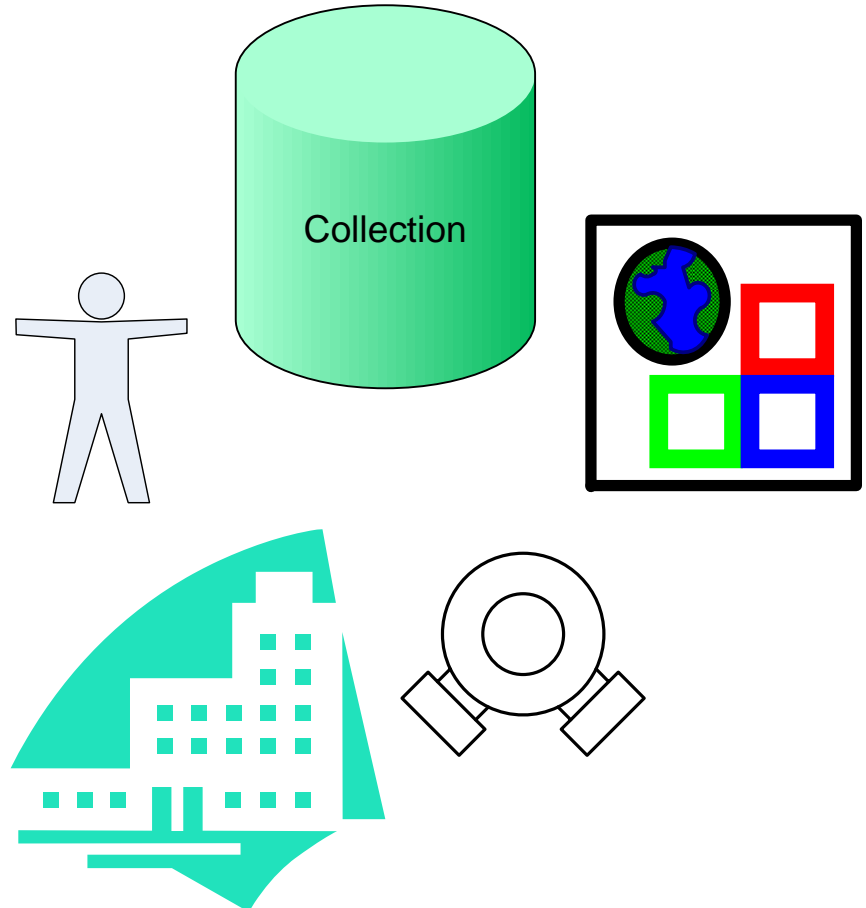


Scholarly Content

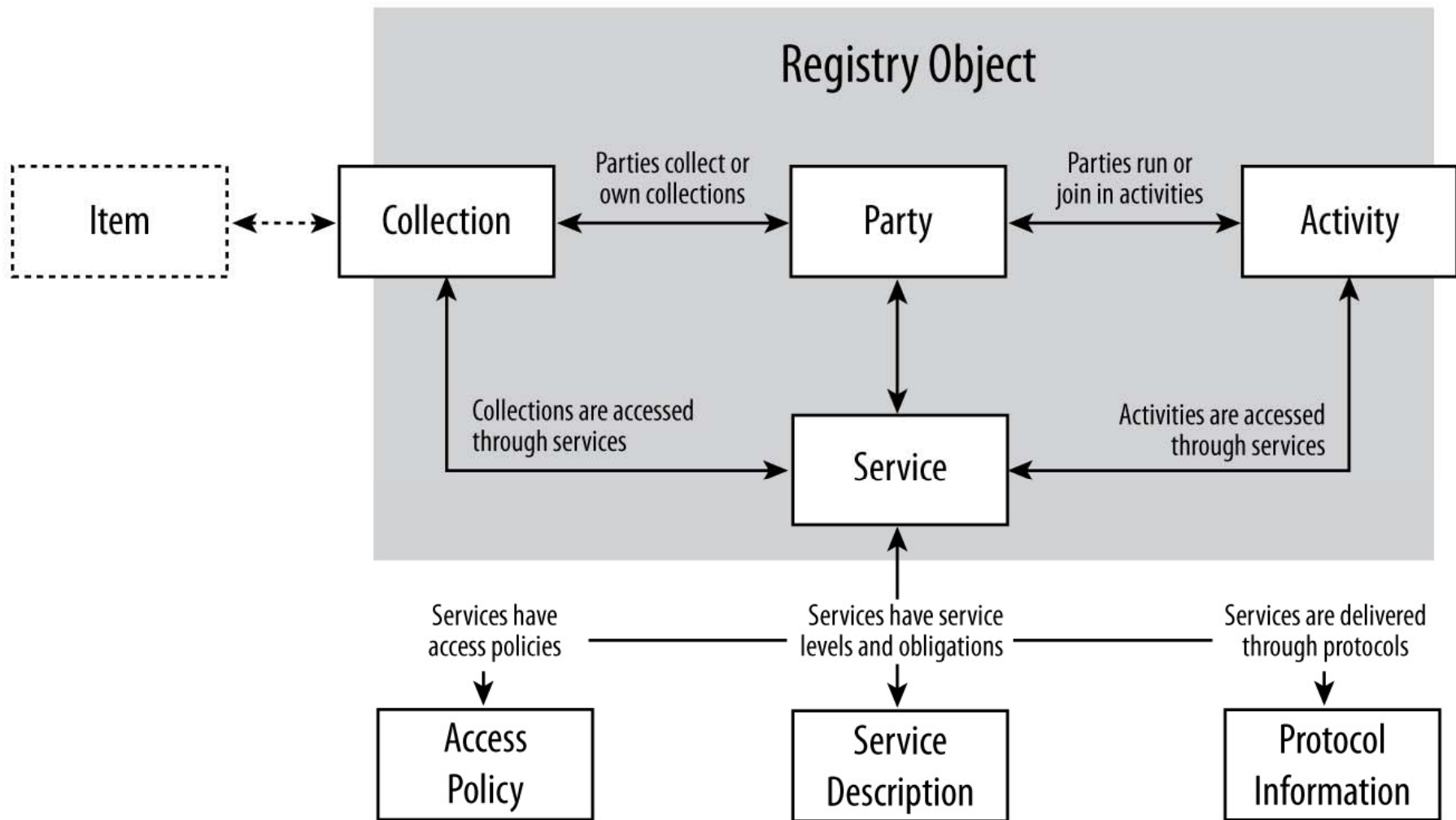
Scholarly Collection Registries

Share an implicit information model:

- Collection
- Service
- Party
- Activity



RSLP, DC Collection, IESR, ISO 2146



Source: Figure 1. Registry Object and its sub-classes. ISO 2146 Registry Services for Libraries and Related Organisations (Consultation Draft 10 March 2008, p.3)

http://tardis.edu.au/orca/rif.xml

File Edit View Favorites Tools Help

Links ANU ANDS Plone Qantas Homepage APSR Global Registries - Home Canberra BOM BBCHindi BSCW CAS Mail Customize Links DIANA Dictionary docbook

http://tardis.edu.au/orca/rif.xml

http://mirror.bom.gov.au/products/IDR403.loop.shtml

```
<?xml version="1.0" encoding="UTF-8" ?>
- <registryObjects xmlns="http://apsr.edu.au/standards/iso2146/registryObjects" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://apsr.edu.au/standards/iso2146/registryObjects http://pilot.apsr.edu.au/public/rif/schema/registryObjects.xsd">
- <registryObject dateCreated="2008-12-05T10:13:31+11:00" dateModified="2008-12-05T10:13:31+11:00" group="Monash University">
  <key>au.edu.tardis</key>
- <collection type="registry">
  <identifier type="local">tardis.edu.au</identifier>
- <location>
- <address>
- <electronic type="url">
  <value>http://www.tardis.edu.au</value>
  </electronic>
- <physical>
  <addressPart type="Monash University" />
  </physical>
</address>
</location>
<description type="about">TARDIS is a multi-institutional collaborative venture that aims to facilitate the archiving and sharing of raw X-ray diffraction
  images (collectively known as a 'dataset') from the Australian protein crystallography community.</description>
</collection>
</registryObject>
- <registryObject dateCreated="2008-10-06T17:04:40+10:00" dateModified="2008-10-06T17:04:40+10:00" group="Monash University">
  <key>http://arrow.monash.edu.au/hdl/1959.1/42149</key>
- <collection type="object">
  <identifier type="local">i=Monash University&objid=monash:7403</identifier>
  <name type="primary">2R9Y - Structure of antiplasmin</name>
- <location>
- <address>
- <electronic type="url">
  <value>http://tardis.edu.au/viewexperiment.php?i=Monash+University&objid=monash%3A7403</value>
  </electronic>
- <physical>
  <addressPart type="text">Monash University</addressPart>
  </physical>
</address>
</location>
- <relatedObject>
```

Global

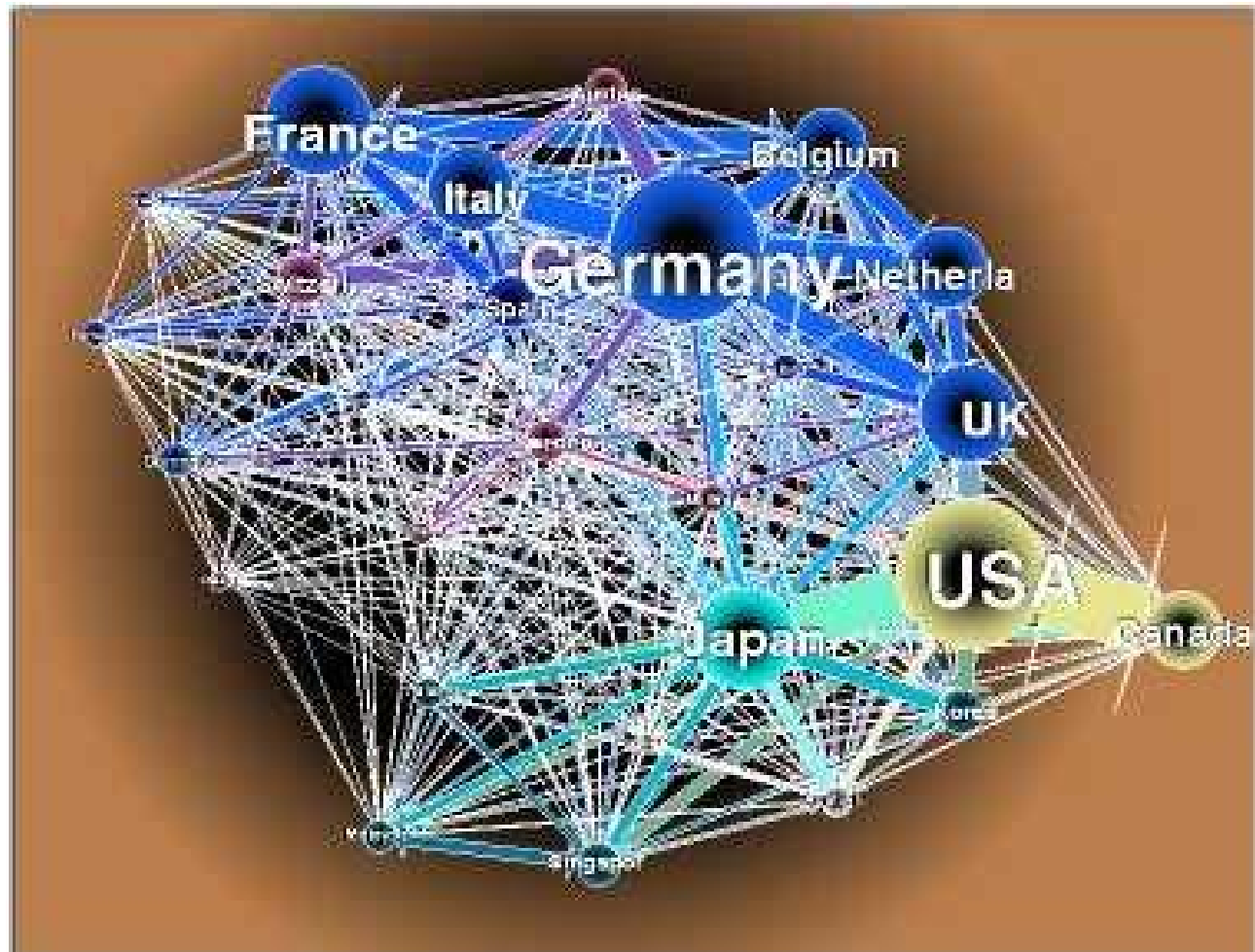


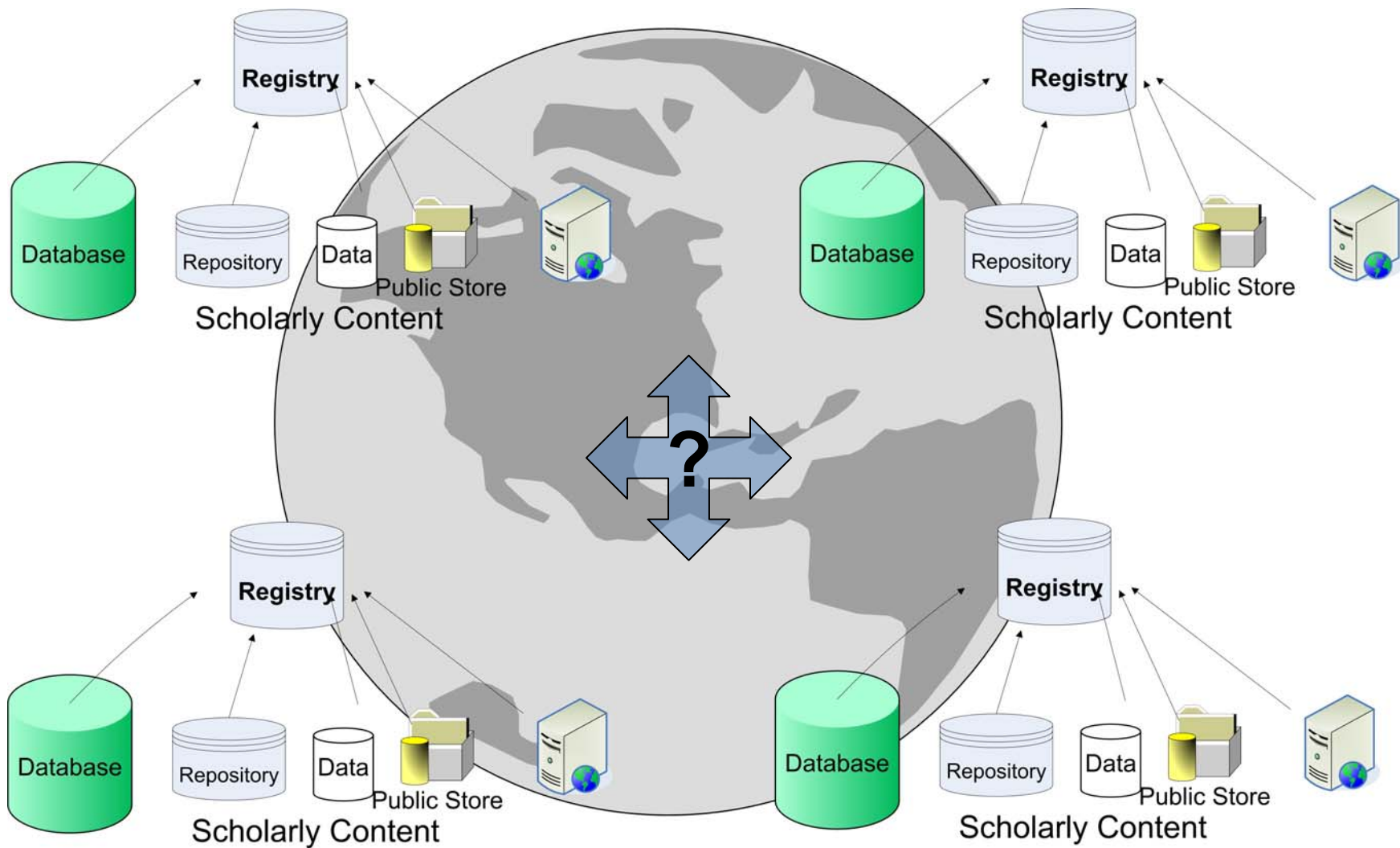


Global Registries

We need a global view of:

- Collections
- Services,
- Parties
- Activities





Initiative



Initiative

- Means to make a start
- No formal agreements
- Just a group of registry services working towards something

Usage Scenarios



Postgraduate Researcher

"I need a way of discovering globally all the data specific to my research. I also would like to contact the researchers that are responsible for creating those data collections"

Ms. Jessica Bright



Postgraduate Researcher

Postgraduate Researcher

Comprehensive domain
search

Ms. Jessica Bright



Postgraduate Researcher

Research Project Leader

“I need to keep a tab on all national and global research outputs within my field of expertise so that I can effectively manage my team, and forge global networks that will collaborate around a common dataset ...”



Research Project Leader

- Alerts to new data sources in a given field
- “Publication” of data



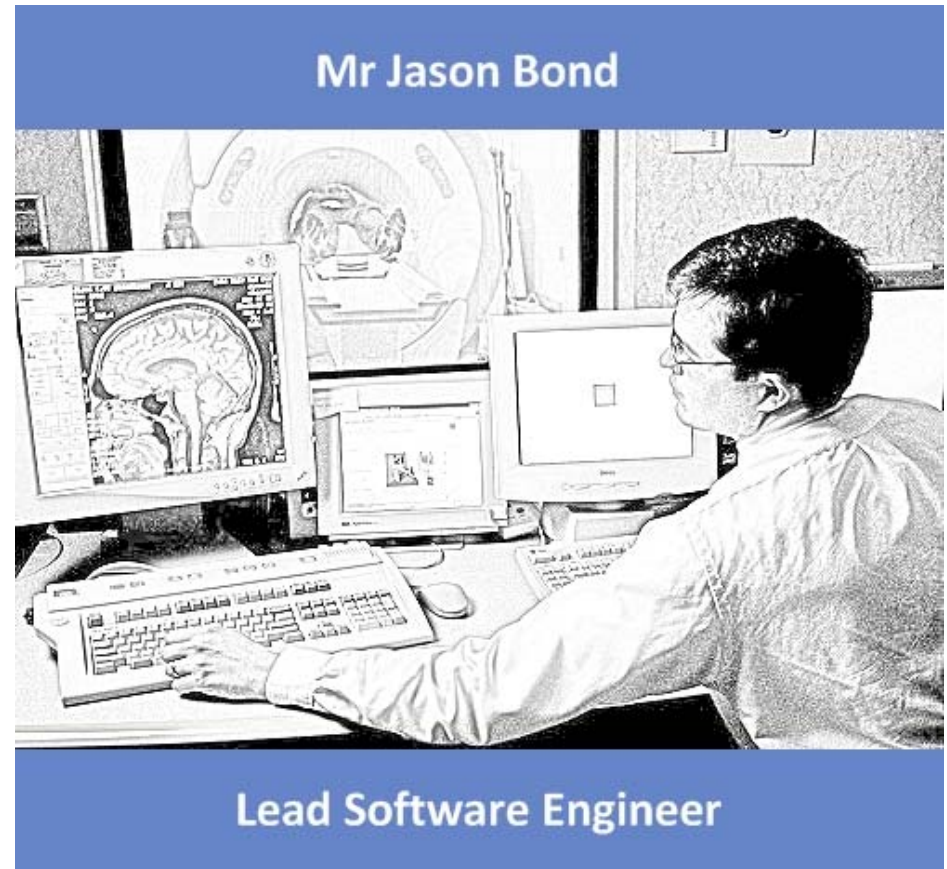
Senior Research Administrator

Browse the mesh of data publications, people, and projects



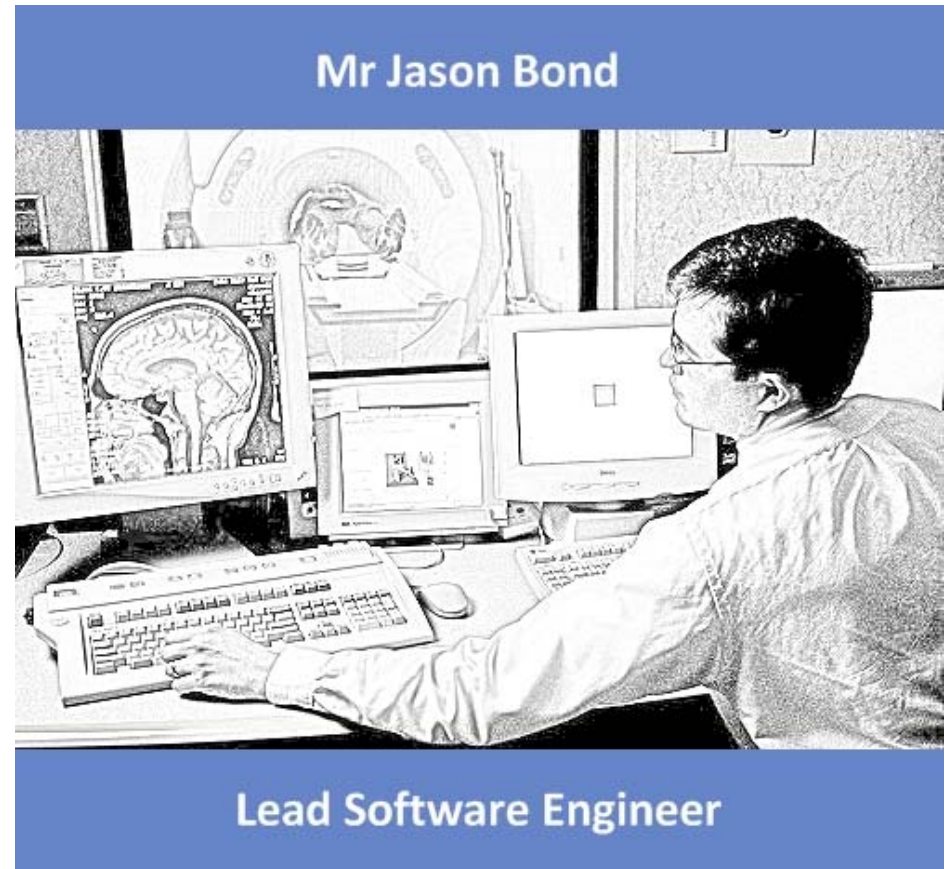
Lead Software Engineer

“I want a reliable source of technical information about data collections in my field to save me time and make sure I have intelligent software that grows automatically as more sources come online...”



Lead Software Engineer

- Service oriented architecture for content
- Dynamic information on collections

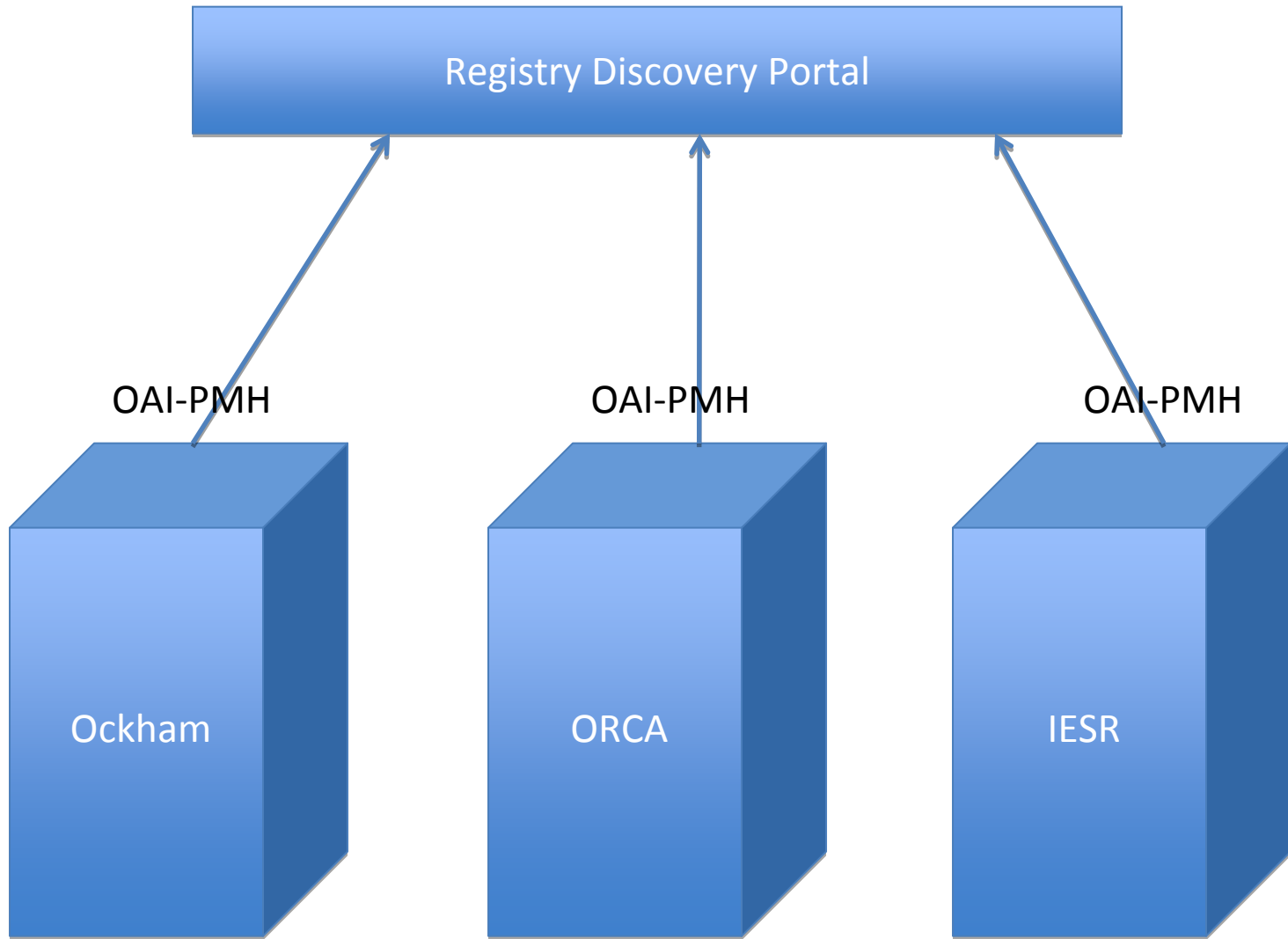


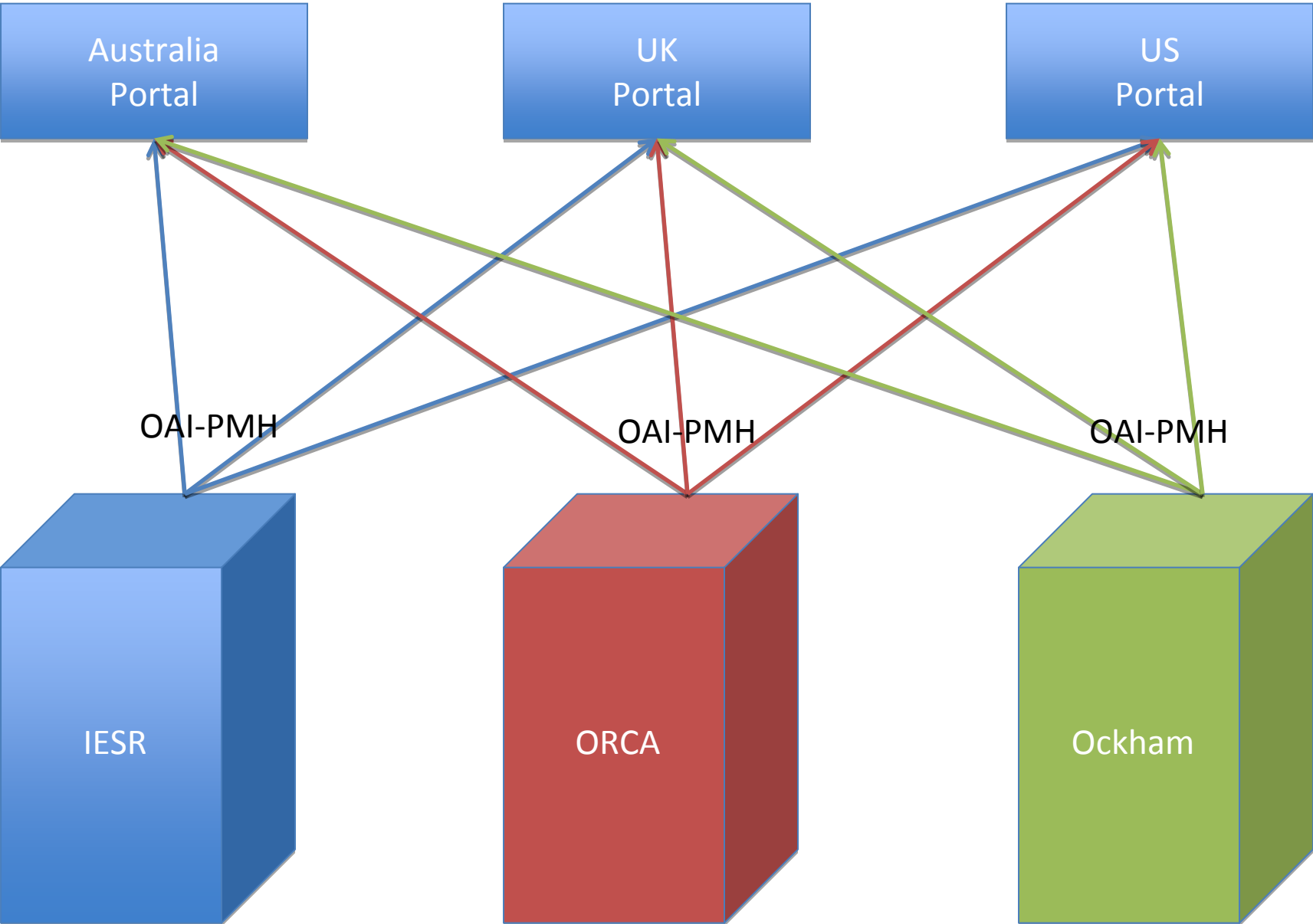
- Registry enables intelligent software that realises web 2.0 potential
- Enables service oriented architecture
- Eliminates the need to hardwire information about collections into an application

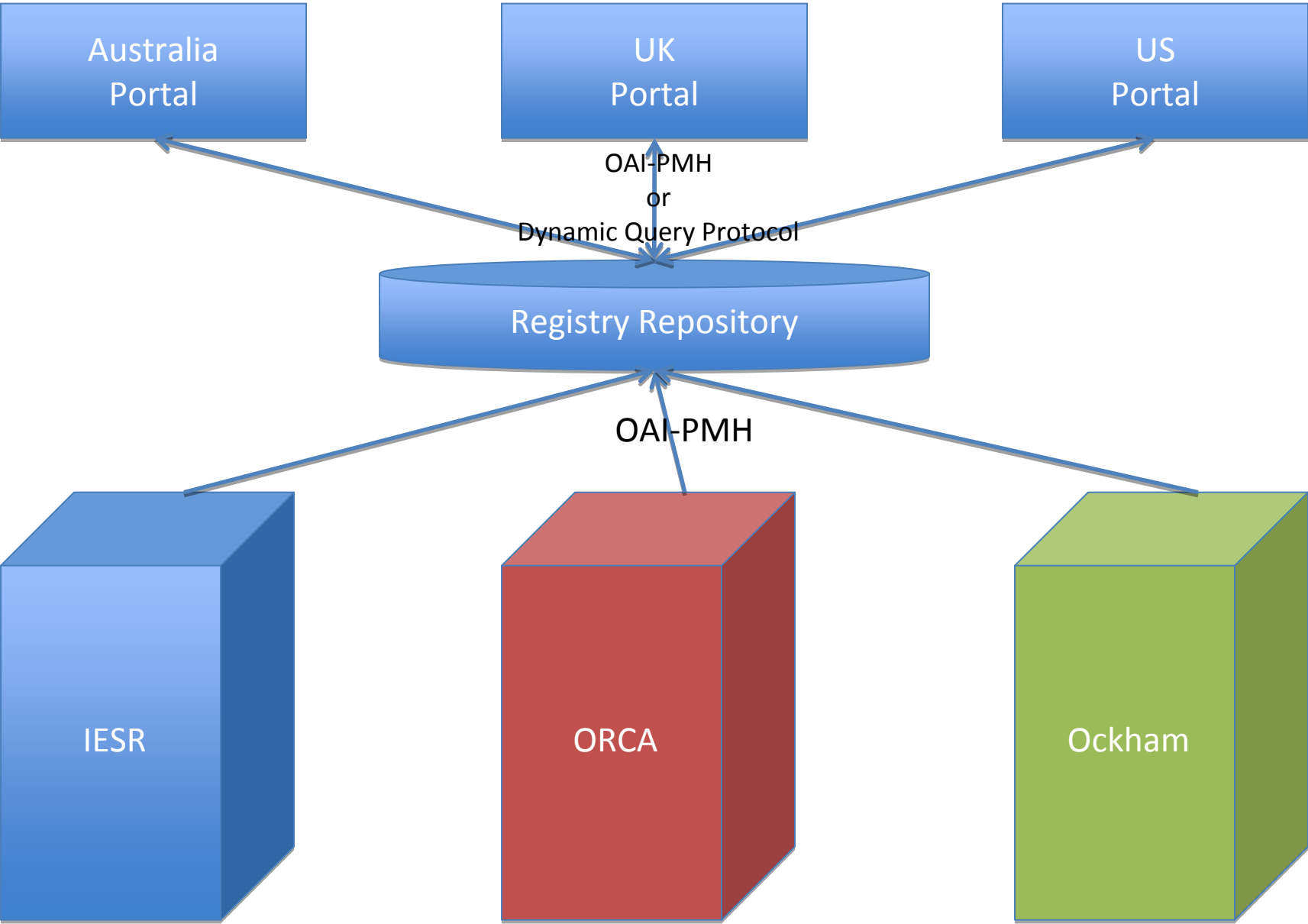
Demonstrators

<https://devel.apsr.edu.au/cosi/orca/search.php>

<http://apollo.library.oregonstate.edu:3001/record/search>







Implementing a Global Cooperative – Technical

- Establish a consensus interchange format and procedure
- Manage change to that consensus
- Establish a register of participating registries
- Plan for scaling up

Implementing a Global Cooperative – Organisational Issues

- Establish the charter and scope
- “Own” and promote the interchange consensus
- Establish data provider agreements
- Quality control the participant register
- “Own” the participant register
- Plan for scaling