The Global Registries Initiative: Progress Report and Software Demonstration

Chris Blackall, Australian National Data Service
Jeremy Frumkin, University of Arizona
Vic Lyte, University of Manchester

Who

- Jeremy Frumkin, Assistant Dean/Chief Technology Strategist, University of Arizona Libraries
 - Ockham Initiative http://www.ockham.org/
- Vic Lyte, Project Director, University of Manchester
 - Information Environment Service Environment http://iesr.ac.uk/
- Chris Blackall, Research Analyst, Australian National Data Service (ANDS)
 - ANDS Collections Registry https://services.ands.org.au/home/orca

What

- The Global Registries Initiative
- Collection/service registries record information about 'collections' of scholarly resources and related web services
- Collections? 'Any grouping of digital items'
- Global? 'register locally, discover globally'
- It works...stick around for the demo

Why

- Managing the data deluge
- Supporting data-intensive science (escience)
- Federating of research data collections
- Why not leave it to Google?
- Why not use Semantic Web/Linked Data http://linkeddata.org/

How

- Collections and services records are harvested locally and aggregated nationally/globally
 - 'Federated' registry architecture
 - Metadata harvest protocol
 - Registry interchange formats
- Policies and metadata sharing agreements

USA

• Jeremy's slides goes here [3-4]

UK/Europe slides

Vic's material goes here [3-4 slide]

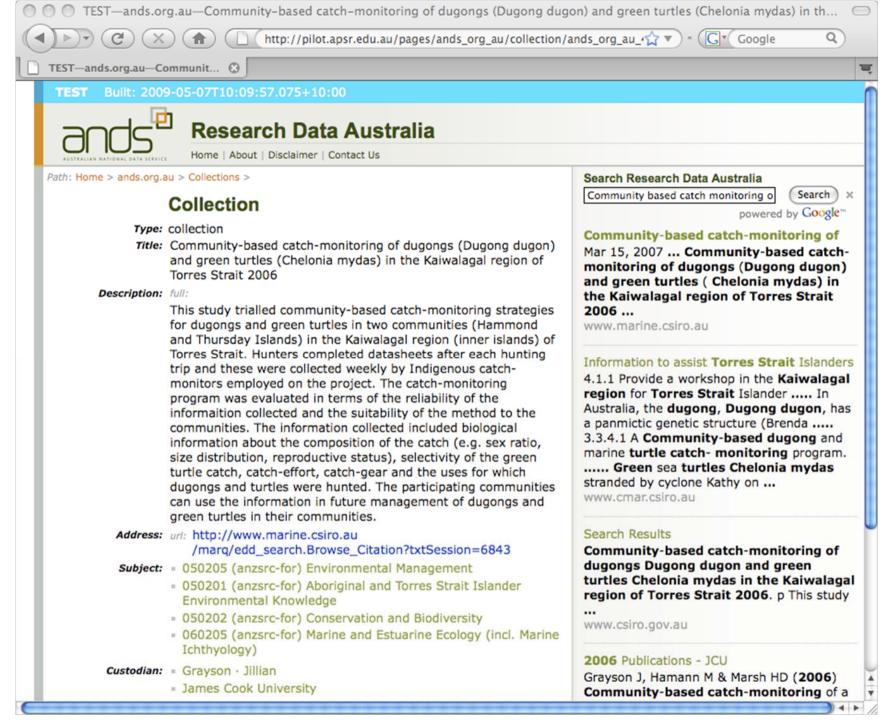
Australia

- Collection/Service Registry initiative is a central part of national research infrastructure funded by the Australian Government
- Focus: Building a 'Research Data Commons' for data discovery and citation
- Drivers: research evaluation and impact; supporting national innovation & 'big science'
- Barriers: lack of peer-recognition and rewards for researchers to manage and preserve data

Information Model

• ISO 2146 Slide

QuickTime™ and a decompressor are needed to see this picture.



Summary & Directions

• 2 slides

Demonstrator 1: ANDS Pilot

- The ANDS Collection/Service Registry global pilot: This demonstrator aggregates records from three collection/service registries into a combined registry run by the Australian National Data Service (ANDS)
- The aggregated pool of records is from Australia, UK, and USA, and can be searched and browsed
- Aggregation is performed using the OAI-PMH (Protocol for Metadata Harvesting) with the RIF-CS Interchange format
- https://devel.apsr.edu.au/cosi/orca/search.php

Demonstrator 2: LibraryFind

- This demonstrates the usage of metasearch, or the querying of registries distributed over three different continents
- It supports distributed search protocols such as z39.50, SRU/SRW, and Open Search, as well as OAI-PMH aggregation
- http://apollo.library.oregonstate.edu:3001/rec ord/search