UK research data discovery service: phase 2

Technical development

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Scope

Appraise “how the software could underpin a future UK research data discovery service” by:

• Evaluating candidate software platforms
  – ANDS (www.ands.org.au), CKAN (ckan.org), others?
  – open source, proven in use, extensible/configurable

• Implementing a prototype using the chosen platform
ANDS Platform

- Actively used and developed by Australian National Data Service — researchdata.ands.org.au
- Uses RIF-CS format
- Harvesting via OAI-PMH, HTTP GET, CKAN API
- Employed in phase 1 — rdrds.cloudapp.net
- Typical technology stack
  - PHP application, MySQL database, Apache Solr indexing/searching, jOAI for data harvesting
CKAN Platform

- Actively developed by the CKAN Association
- Widely used by government and other organizations
  - [data.glasgow.gov.uk](http://data.glasgow.gov.uk)
  - [data.bris.ac.uk/data](http://data.bris.ac.uk/data)
- JSON-formatted data interchange
- Harvesting via OAI-PMH, HTTP GET, CKAN API
- Typical technology stack
  - Python/JavaScript application, PostgreSQL database, Apache Solr indexing/searching, Pylons framework
A Requirements-driven Evaluation

- Evaluation criteria defined by research community needs
- Support for multiple stakeholders
- Support for multiple disciplines
- Support for multiple workflows

- Which use cases are your priority for a UK research data discovery service?