



Facilitate Open Science Training for European Research

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Open access and research data management:

Horizon 2020 and beyond

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Overview

RDM is a work in progress at UCC, and this talk presents the history of data management as a service and outlines the future steps of the RDM evolution

- University College Cork research cloud
- Current services
- Future services



UCC Research Cloud

- A private cloud, providing data storage and compute services to UCC Research Community
- Managed Infrastructure as a service (IaaS)
- Data management services
- Part of Information Services

Initial offerings

- The BCRI (Boole Centre for Research in Informatics) offered cluster computation services on a best effort basis
- Some storage was provided, with no backups
- During this time, some data events were reported

Data storage client



Are the backups in the safe?



Phase 2, storage as a service

- BCRI purchased storage equipment
- Storage was offered, as a paid service, with a backup system
- During this time, some data events were reported



What floor is the datacentre on?



Mardyke Sports Grounds,
Home of UCC Men's &
Ladies Hockey Clubs,
Friday November 24th 2009

Phase 2, storage as a service

- These events were not a problem, due to the archival and backup system
- Data management emerged as a requirement (data protection, clinical research requirements)
- Services expanded to offer data management
- Projects came onstream storing sensitive data
- Data sharing and collaboration emerged as a strong requirement

Phase 3, Research Cloud established

- With the Research Cloud established, and services expanded to compute, storage and data management, the need for institutional Research Data management policies and services became clear



Where are we now?

- We have a research computing strategy which highlights RDM
- We have a well regarded archive for publications (CORA), including theses, which mandates deposit, including some links to research data
- We have 2 working committees that have commissioned the need for institutional RDM: ISER and ACRIC.
- This has helped us to understand roles and responsibilities
- We have a plan for storage and research infrastructure service and we have research infrastructure storage for data deposit
- We have started to draft a policy for research data management

Research Data Management Policy

- Aspirational—sets an aim for the institution
- Developed in conjunction with researchers; through wide consultation with the entire UCC research community
- Helps identify roles and responsibilities at institutional level
- Sets boundaries on what we will do centrally
- Provides a funding lever to assist researchers to obtain funding for RDM, so that RDM is at zero cost to the researcher
- It is a mandate—but we would use it for incentivisation, i.e. carrot not stick
- Establish principles of Research Data Management.

Activities

- Pilot RDM service launched
- Built on Fedora Commons and Solr
- Engaging with pilot users of system
- Metadata
- Training and workshops
- RDM policies in draft, moving to committee for approval



Questions for future

- Metadata - which system? One fit for all? One vocabulary or many?
- APIs
- Digitisation
- Who will carry out the various roles? (IT services, library, Research Office, Tech Transfer, PI/HOD etc)
- Open data