EPrints
10 Years of Digital Preservation
What is EPrints For?

EPrints offers a safe, open and useful place to store, share and manage material in the pursuit of research and educational agendas.

administrative reporting, collaboration, data sharing, digital profile enhancement, e-learning, e-publishing, e-research, marketing, open access, preservation, publicity, research assessment, research management, scholarly collections
Why?

Providing a designated, managed and curated environment with institutional backing, which is what an IR should be, is better than not.
In the late 1990s researchers started putting stuff online.

- No management
- No long term strategy
- No editorial rights
- No clue of impact

From this was born OAI and the first EPrints repository.
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These are all institutional problems
Research Problems

- Discoverability
- Manageability
- Value Tracking
A centrally controlled IR

Interfaces for:
- Depositers
- Editors
- Managers
- Depositors

Indexable by search engines, download tracking

Centrally controllable resources, easier to back up
What is in the repository?

- http://roar.eprints.org
- PRONOM-DROID

Applying OAIS, PREMIS.
Preserv2 - 2007

- Extended preservation services
  - Preserv1 profile in the repository.
  - Storage Services for greater flexibility in bitstream Preservation

- Repository Interoperability (OAI-ORE)
  - First real world use of ORE.
Plug-ins / Modules

Everything builds on the core layer

Major part of v3.2 is strengthening the core and adding more abstraction layers

- Improved data model
- Enhanced data facilities
- Enhanced metadata facilities
- Improved programming & API
EPrints Plug-In Biodiversity

- Atom, RSS
- Bibliography Publishing (personal, projects)
- ISI, Web of Science, Google Scholar
- MS Office (via SWORD)
- LDAP, NIS, RADIUS (Authentication)
- OAI-PMH, OAI ORE
- Oracle, MySQL
- Amazon S3, SunCSS, NFS
- DROID, Pronom, Plato Action Plans
Demo
http://eprints.ecs.soton.ac.uk

Search for author “Jennings”

re-order results by ISI citation count

Main aim is to show ISI and Google Scholar plug-ins
http://languagebox.eprints.org

- Show the high amount of customisation (still eprints)
- Show how collections are built
- Emphasize multi-language support as all text is phrases
Demo Content

- [http://www.edshare.soton.ac.uk/1763/](http://www.edshare.soton.ac.uk/1763/)
  - Click the video preview link
  - Demonstration of repository handling multi-formats

- [http://ecrystals.chem.soton.ac.uk/20/](http://ecrystals.chem.soton.ac.uk/20/)
  - 3D crystallography structures
  - Large binary datasets are held in dark repository backed with a honeycomb
Preservation, file format & risk analysis plug-ins
Classify Objects (EPrints)
Identify Objects at Risk (EPrints)
Load sample objects into Plato
Analyse object properties, locate tools, test runs, analysis of results (Plato)
Create Action Plan (Plato)

Load Action Plan Into EPrints
EPrints performs actions on objects (if any)
Stores action plan for future reference of decision process.

More Info @ http://eprints.ecs.soton.ac.uk/17962/
Aim: To create a number of exemplar preservation repositories from which others can learn.

Small number of very diverse repositories.
Takeaway Messages

- Modular, modular, modular
- Flexible, Extensible
- Secure, Managed, Reliable
- Supported

- Embrace change
- Support your community
THANK-YOU

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