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

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Why?

Providing a designated, managed and curated environment with institutional backing, which is what an IR should be, is better than not.

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Why

- 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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Research Problems

- Discoverability
- Manageability
- Value Tracking

EPrints 1.0

- A centrally controlled IR
- Interfaces for:
  - Depositers
  - Editors
  - Managers
  - Depositors
- Indexable by search engines, download tracking
- Centrally controllable resources, easier to **back up**

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Preserv1 - 2005

- What is in the repository?
  - http://roar.eprints.org
  - PRONOM-DROID
- Applying OAIS, PREMIS.

The technical registry
PRONOM

Preserv2 - 2007

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

- Repository Interoperability (OAI-ORE)
  - First real world use of ORE.

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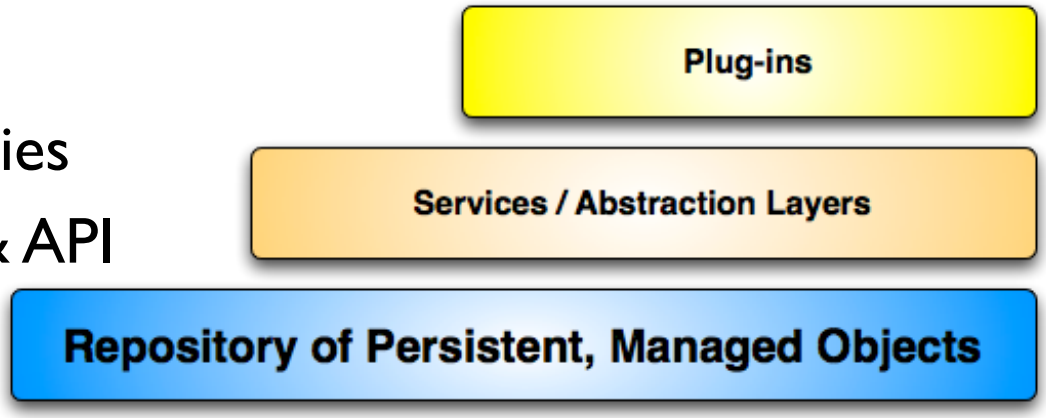
EPrints 3

- 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



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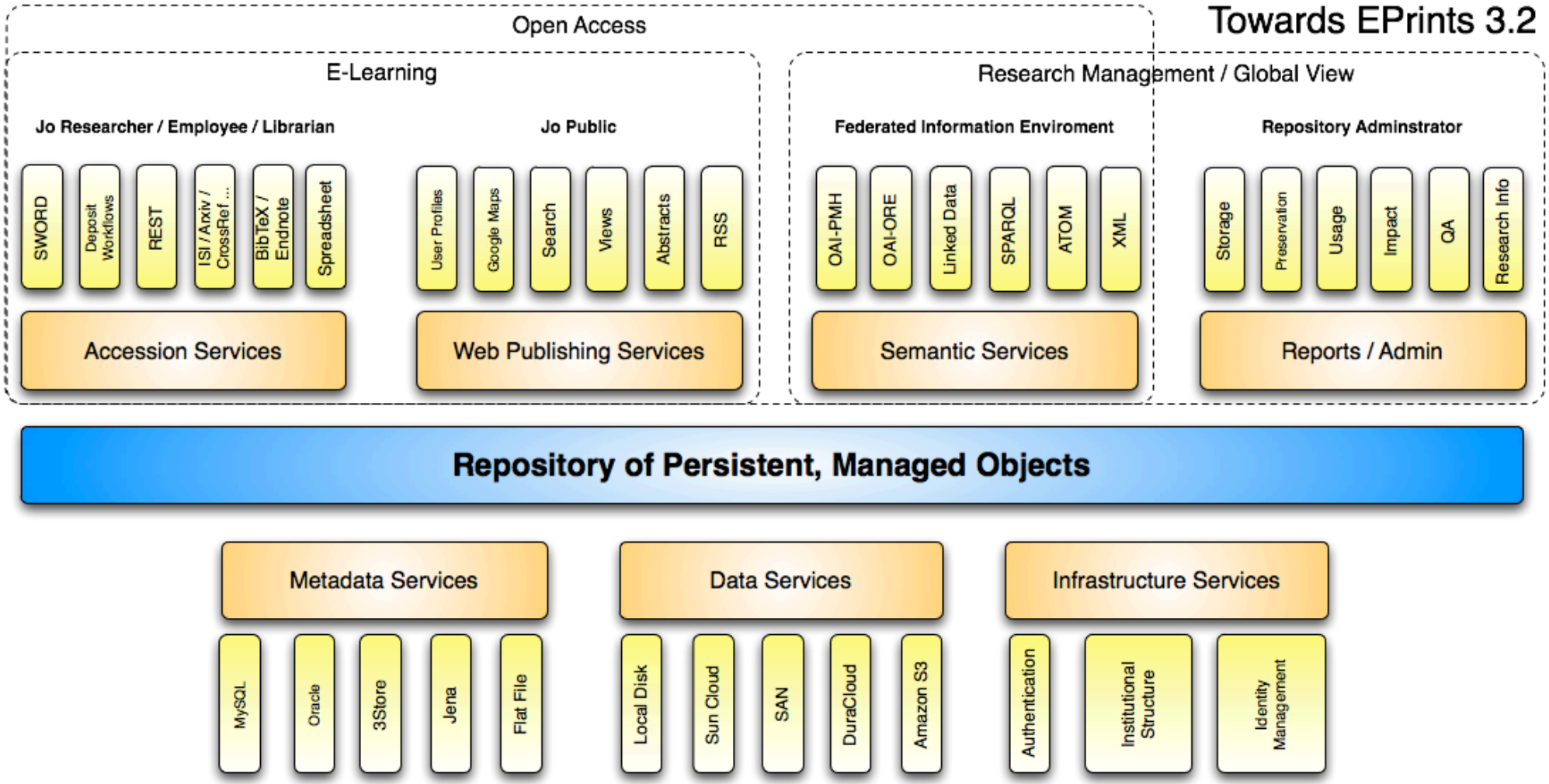
EPrints 3.2 Structure



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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

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Demo

Demo Content

- 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

Demo Content

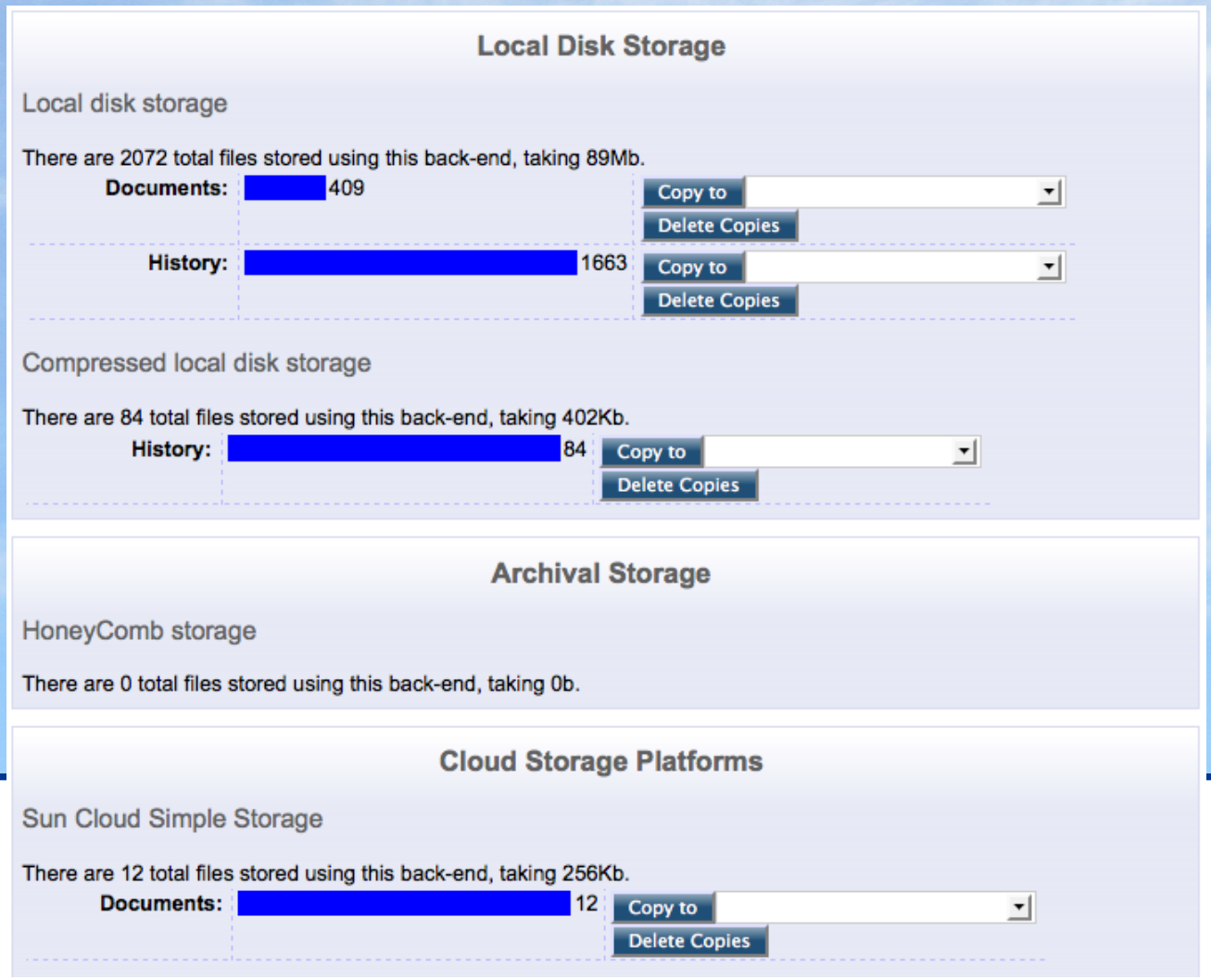
- http://languagebox.eprints.org
  - Show the high amount of customisation (still eprints)
  - Show how collections are built
  - Emphasize multi-language support as all text is phrases

Demo Content

- http://www.edshare.soton.ac.uk/1763/
  - Click the video preview link
  - Demonstration of repository handling multi-formats
- http://ecrystals.chem.soton.ac.uk/20/
  - 3D crystalography structures
  - Large binary datasets are held in dark repository backed with a honeycomb

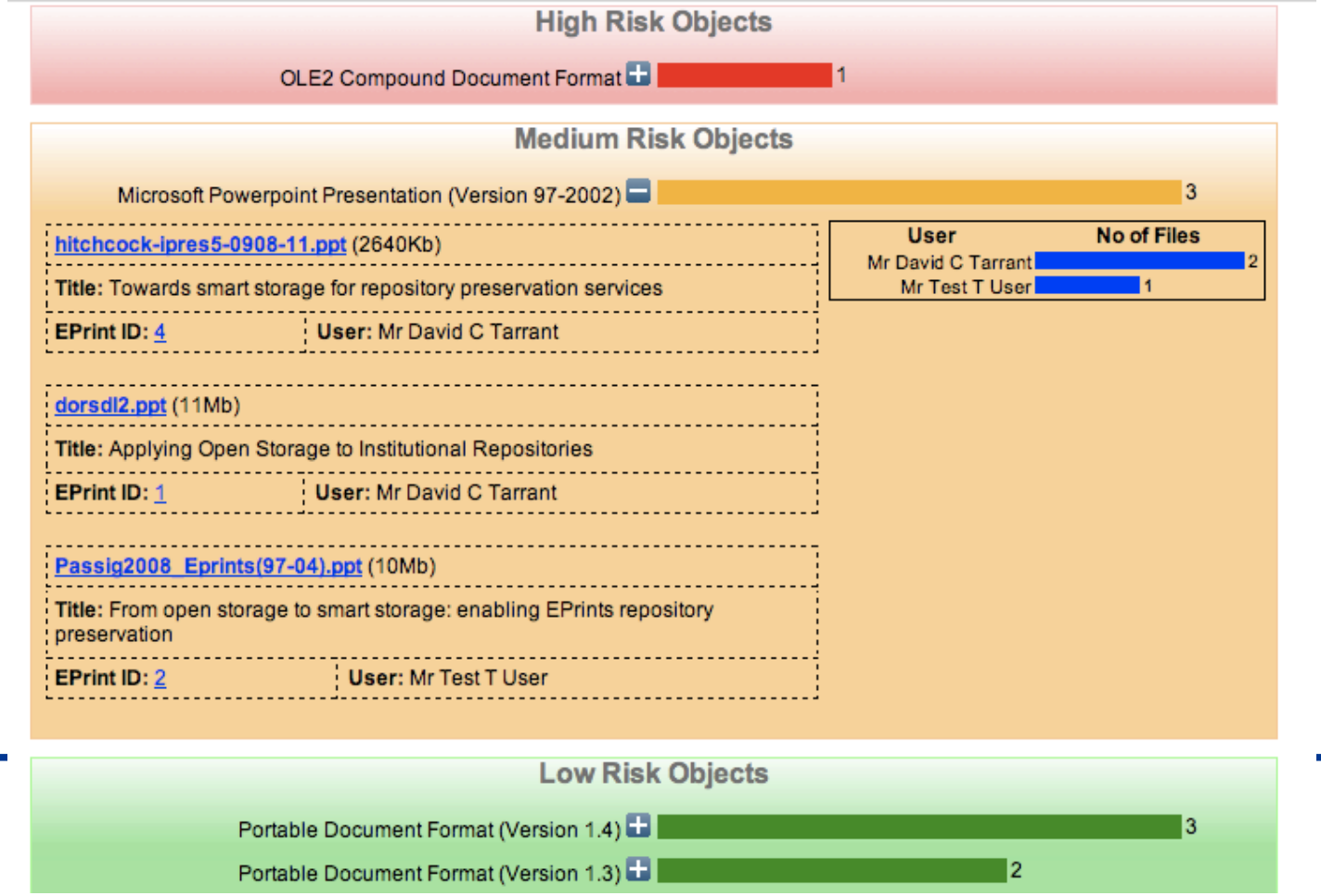
Demo Content

- Showed Storage Controller. EPrints using Sun Cloud Storage Service. EPrints is test partner.



Demo Content

- Preservation, file format & risk analysis plug-ins



EPrints & Planets

- 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.

eprints reservation

http://preservation.eprints.org

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KeepIt! 2009

- Aim: To create a number of exemplar preservation repositories from which others can learn
- Small number of very diverse repositories

Training

Development

Deployment

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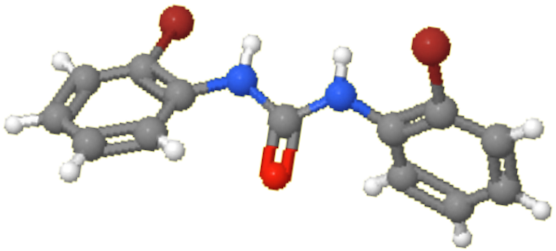
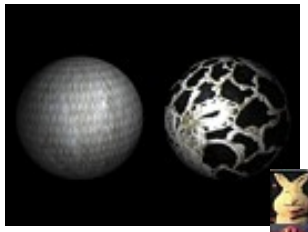
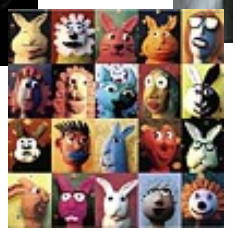
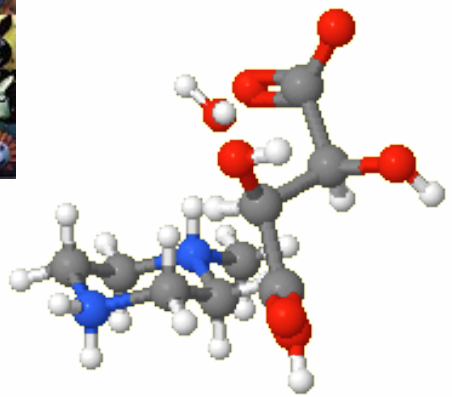
Biodiversity









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Takeaway Messages

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

- Embrace change
- Support your community

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THANK-YOU

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