

 eprints  
[www.eprints.org](http://www.eprints.org)

 eprints  
[www.eprints.org](http://www.eprints.org)



Meeting Institutional Requirements

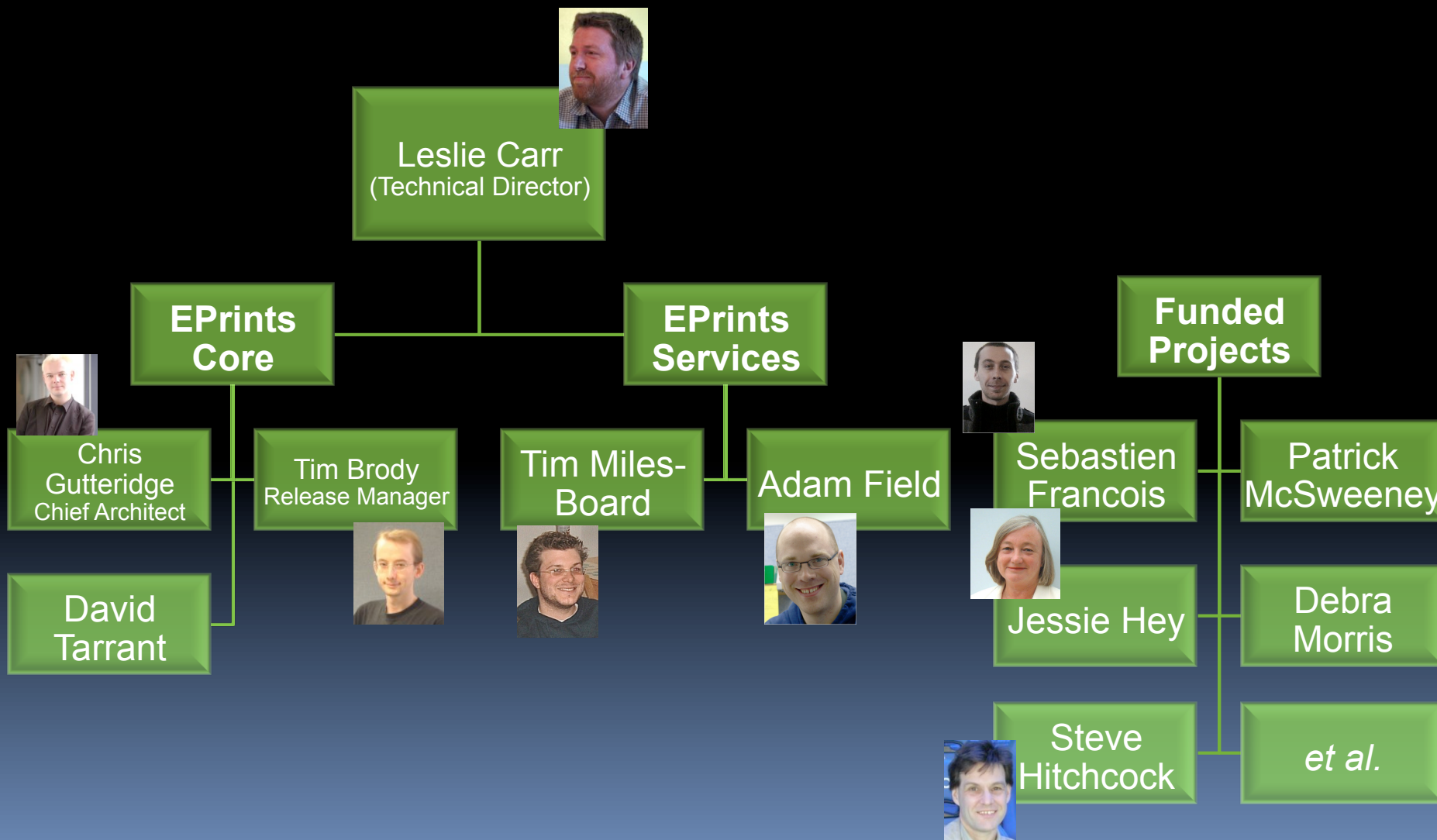
# EPRINTS 3.2



# Outline: Session 1 & 2

- Introductions
- What is the point
  - Mission, motivation and drive
  - Where have we got so far
  - Where do we want to be
  - Where is version 3.2 taking us
- Outline of version 3.2
- Discussions
  - Future technical directions
  - Future community possibilities
  - Relationships with other communities

# EPrints Org Chart



# EPrints Services

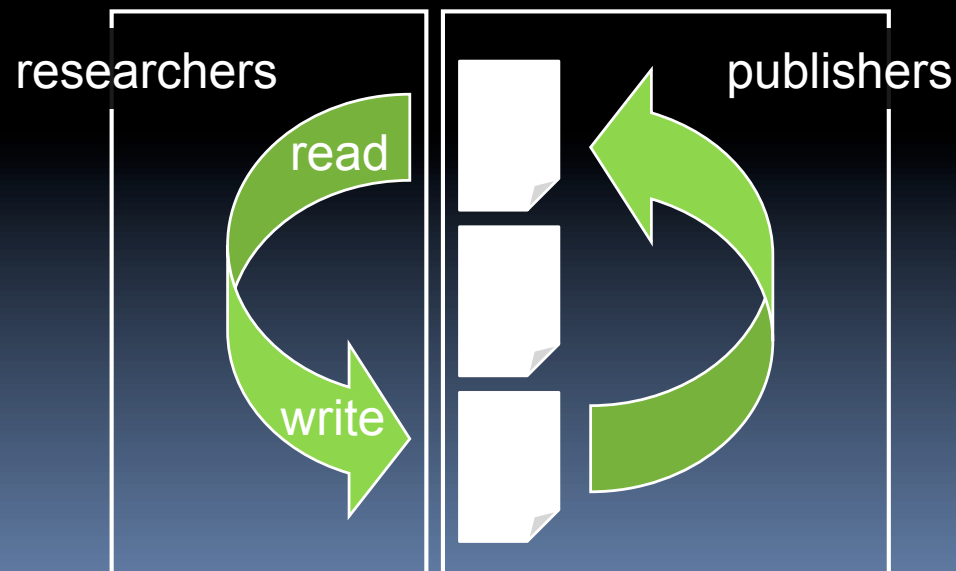
- For-pay commercial hosting, bespoke development, training, support
  - two fulltime repository developers/supporters
- Provides resources to sustain EPrints O/S development
- Provides customer contact
- Contributes code back to O/S
- Now starting to fund PhD studentships

# What is the Point?

- Universities and researchers are knowledge producers and knowledge consumers
- The Web has radically altered the potential for knowledge dissemination in society in ways that we haven't yet fathomed
- We want to understand and facilitate that change
  - Research *and* development

# The Point 1: Open Access

- Scholarly comms have been outsourced
- Literally nothing to show as evidence of research activities



# The Point 2: Knowledge Management

- Researchers have just enough IT support for daily activity
- Many problems intervene
  - Disk crashes
  - Stolen laptops
  - Software upgrades that go wrong
  - Backups that never quite get restored
- Life intervenes
  - Draws and folders full of old stuff that eventually fall off the radar
- “Lost in some research assistant’s computer, the data are often irretrievable or an undecipherable string of digits”

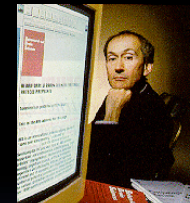


Lost in a Sea of Science Data. S. Carlson, The Chronicle of Higher Education (23/06/2006)



# EPrints History

- Open Archiving Initiative - October 1999
  - Originally called UPS
- Among the Participants
  - Paul Ginsparg (Los Alamos, arXiv)
  - Carl Lagoze (Cornell, NCSTRL)
  - Stevan Harnad (Southampton, Cogprints)
- EPrints
  - proposed as a 'build your own repository' solution
  - enable institutions and groups to participate in OAI metadata sharing initiative



# EPrints History

- First release written by Rob Tansley
  - PhD student at Southampton
  - Left for HP & wrote *DSpace*



- EPrints funded under NSF / JISC DLI2
  - With Cornell, who were writing *Fedora*



An EPrints repository is a set of services offered to all the members of an institution for open access, preservation, scholarly collections, teaching, e-learning, e-publishing, data sharing, collaboration, administrative reporting, research management, publicity, marketing, digital profile enhancement, research assessment

*and many, many other agendas.*

# EPrints Objectives

Lower the barrier for depositors while improving metadata quality and ultimate collection value

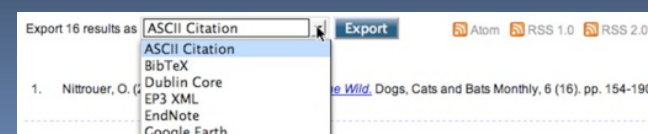
- Time saving deposits
- Import data from other repositories and services
- Autocomplete-as-you-type for fast data entry
- Name authorities

Enter once, reuse often

- Works with bibliography managers, desktop applications and new Web 2.0 mashups
- RSS feeds and email alerts keep you up to date
- Easily integrate reports, bibliographic listings, author CVs and RSS feeds into your corporate web presence
- Used for corporate reporting and national Research Assessment

Simple platform for open source contributions

- Tightly-managed, quality-controlled code framework
- Flexible plugin architecture for developing extensions



# Goals for an EPrints Repository



A Venn diagram consisting of three overlapping circles. The top circle is maroon and labeled 'Quality'. The bottom-left circle is blue and labeled 'Value'. The bottom-right circle is green and labeled 'Control'. The circles overlap in the center, creating a white triangular area. The background is black with a blue gradient at the bottom. On the left side, there is a vertical bar with several colored segments (white, grey, blue, green, purple, pink).

Quality

Value

Control

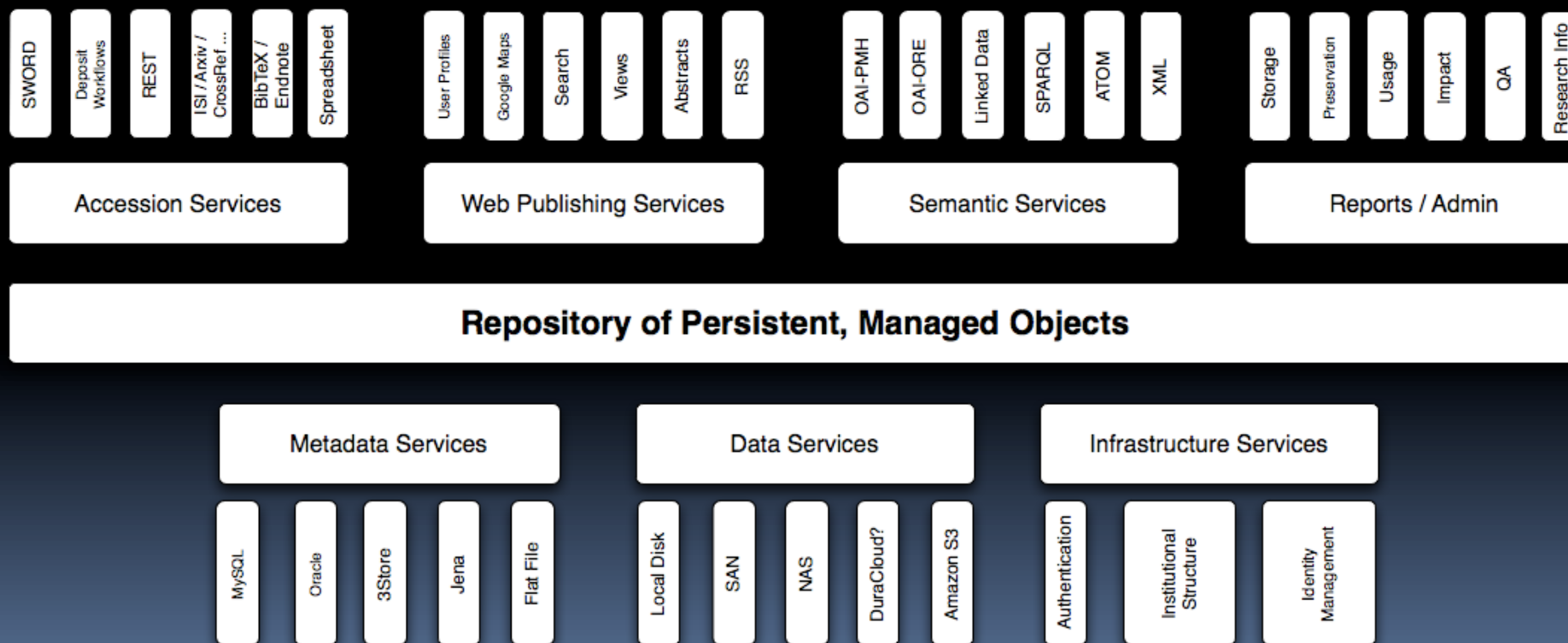
**Running a repository is becoming a challenge in keeping up**

Satisfy the demands of an entire institution

- ▣ diversity
- ▣ quantity
- ▣ quality
- ▣ deadline



# EPrints 3: What Have We Got



# EPrints 3: What Have We Got

- Everything builds on the bottom layer
- Major part of v3.2 is strengthening the bottom layer
  - Improved data model
    - Enhanced data facilities
    - Enhanced metadata facilities
  - Improved programming & API

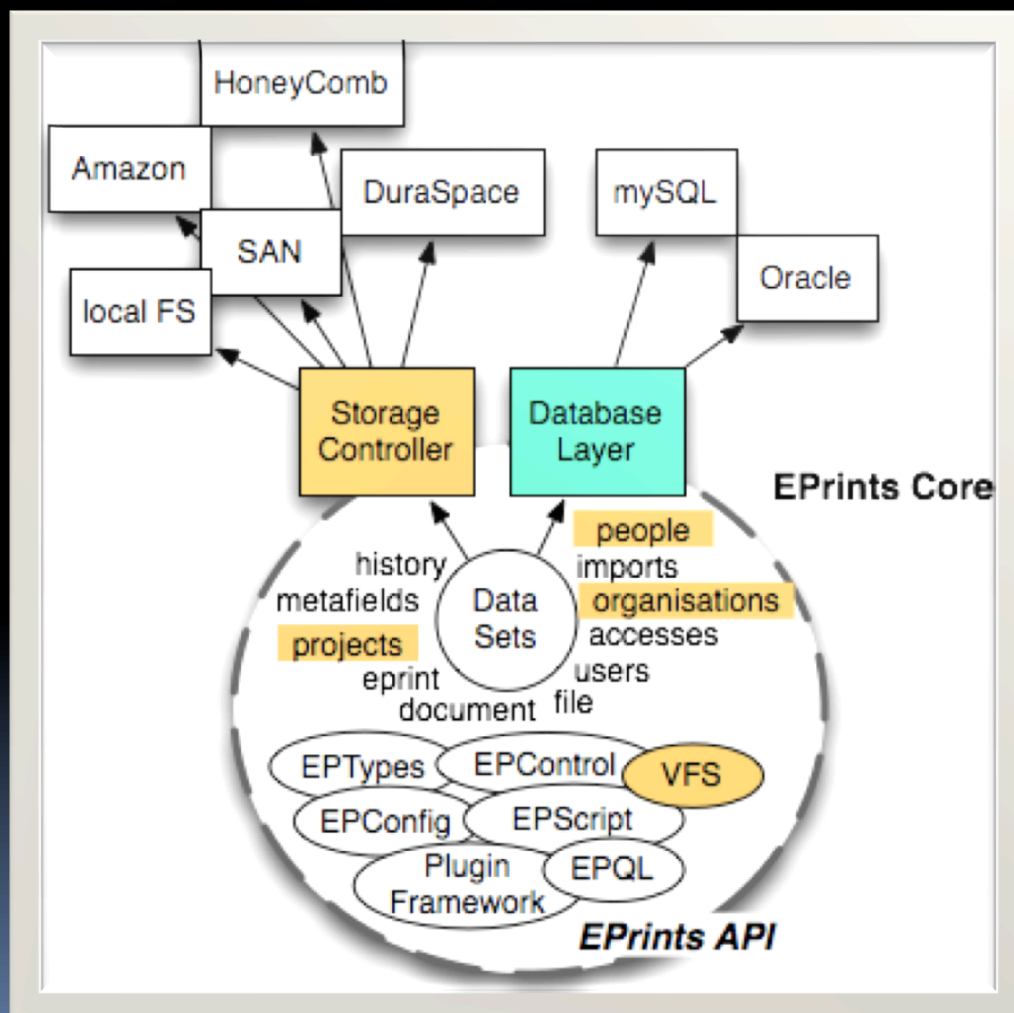


# EPrints Core

Introduced in 3.2

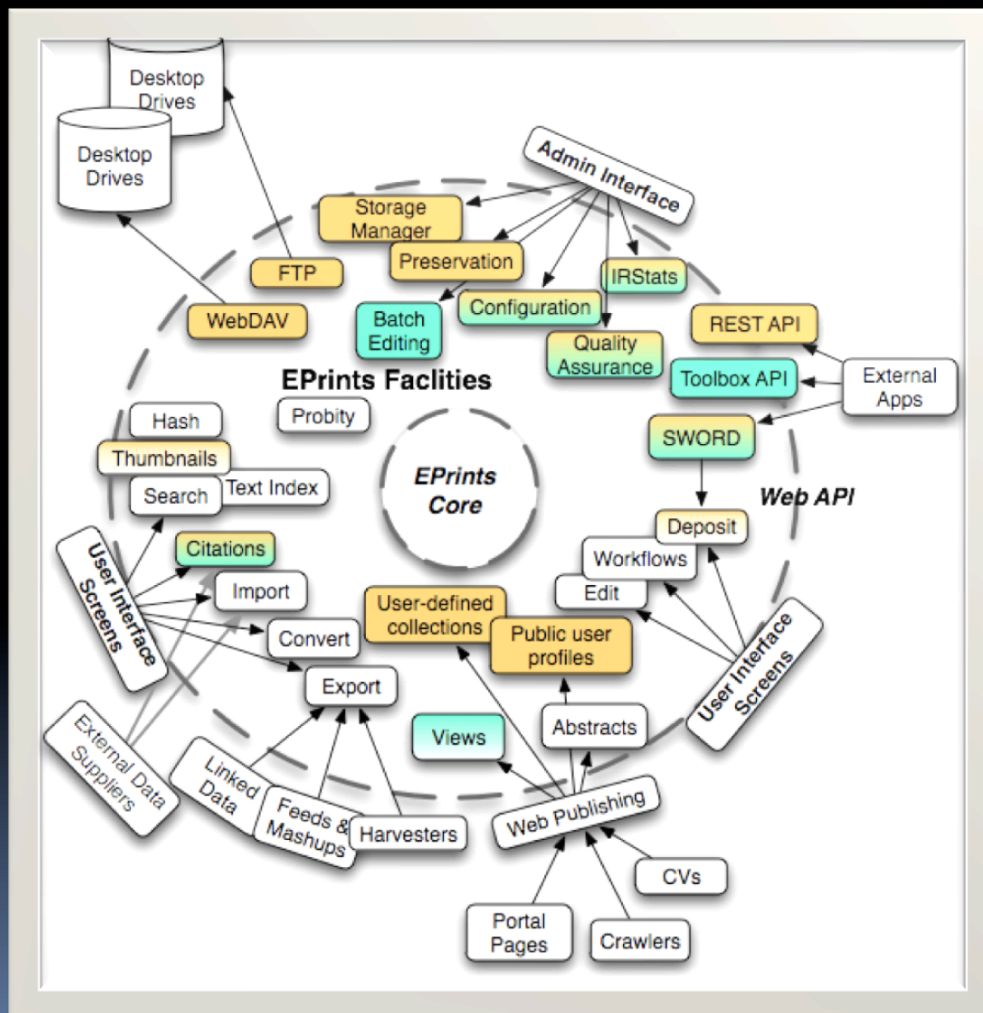
Introduced in 3.1

Introduced in 3.0



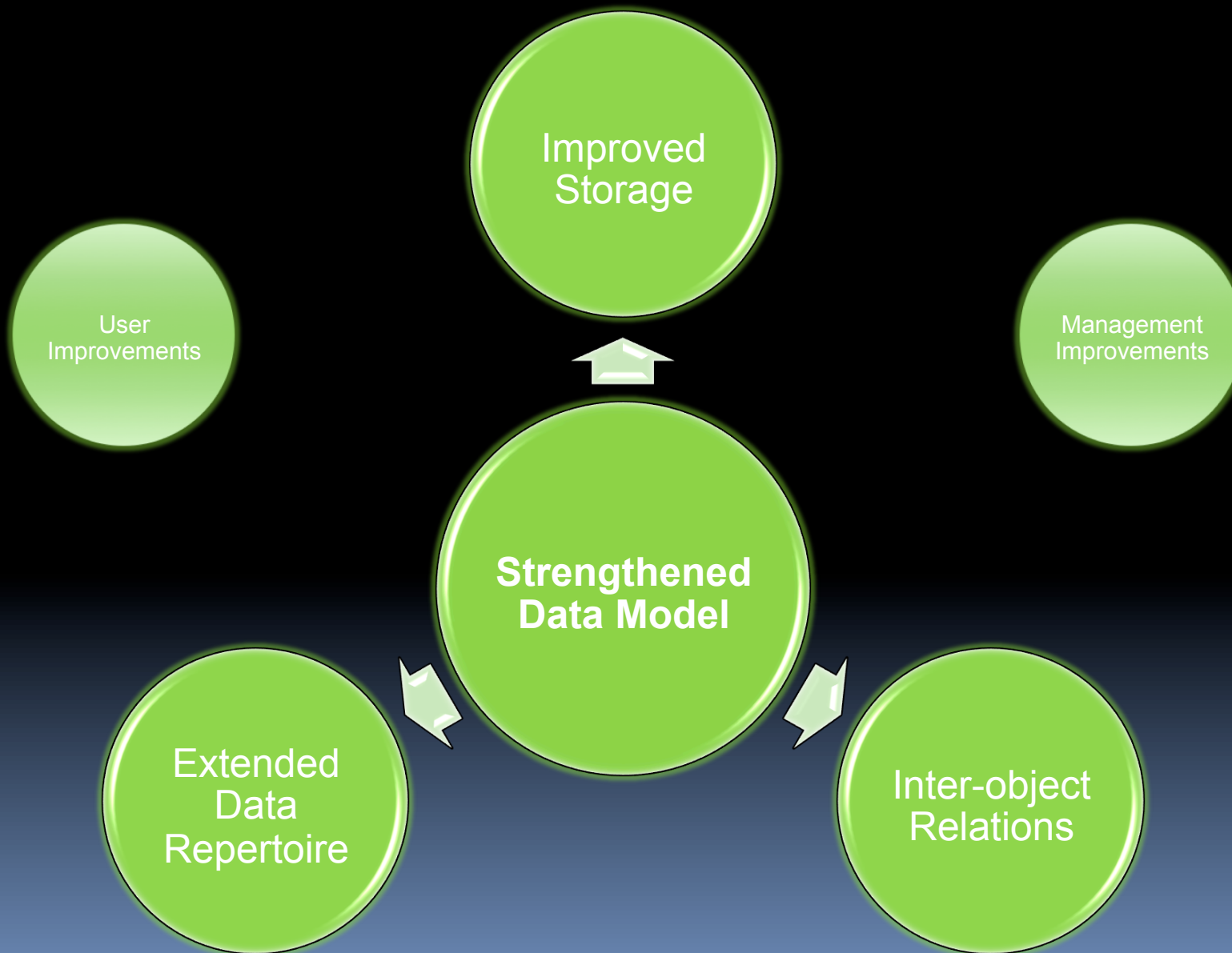
- Datasets
- Data storage
- Utility methods
  - Data types
  - Configuration control
  - Query language
  - Control language *etc*

# EPrints Mantle



- External interactions
  - web pages
  - web services
  - other protocols

# EPrints 3.2 Outline



# EPrints 3.2 Outline

- Extendable Datasets
- CRIS reporting
- Citation Framework
- IRStats



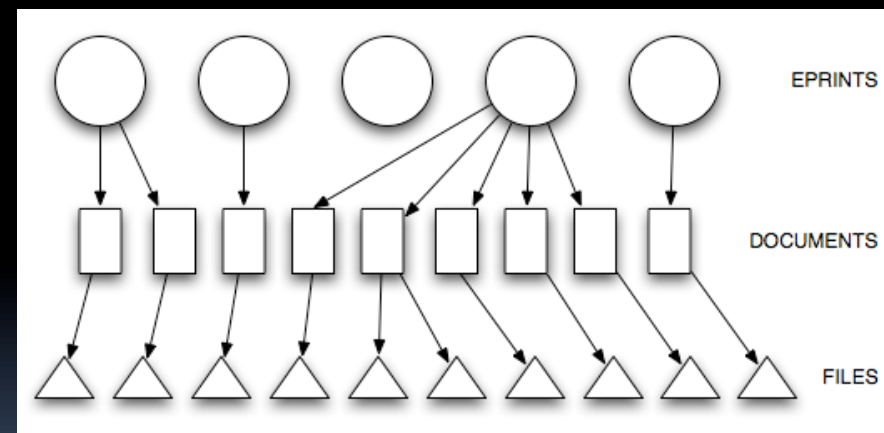
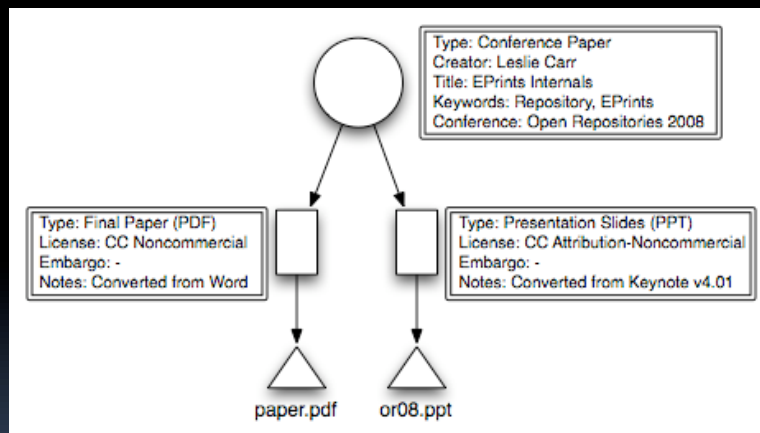
- Storage Controller
- Virtual File System
- Preservation Analysis

- Complex Thumbnails
- Coverage Capabilities
- OpenXML support

Improved  
Storage

# Files are now data objects

- Previously, eprints & documents were data objects. Files were just items in a file system.



- Now files are data objects too, and file objects are abstractions of data streams.



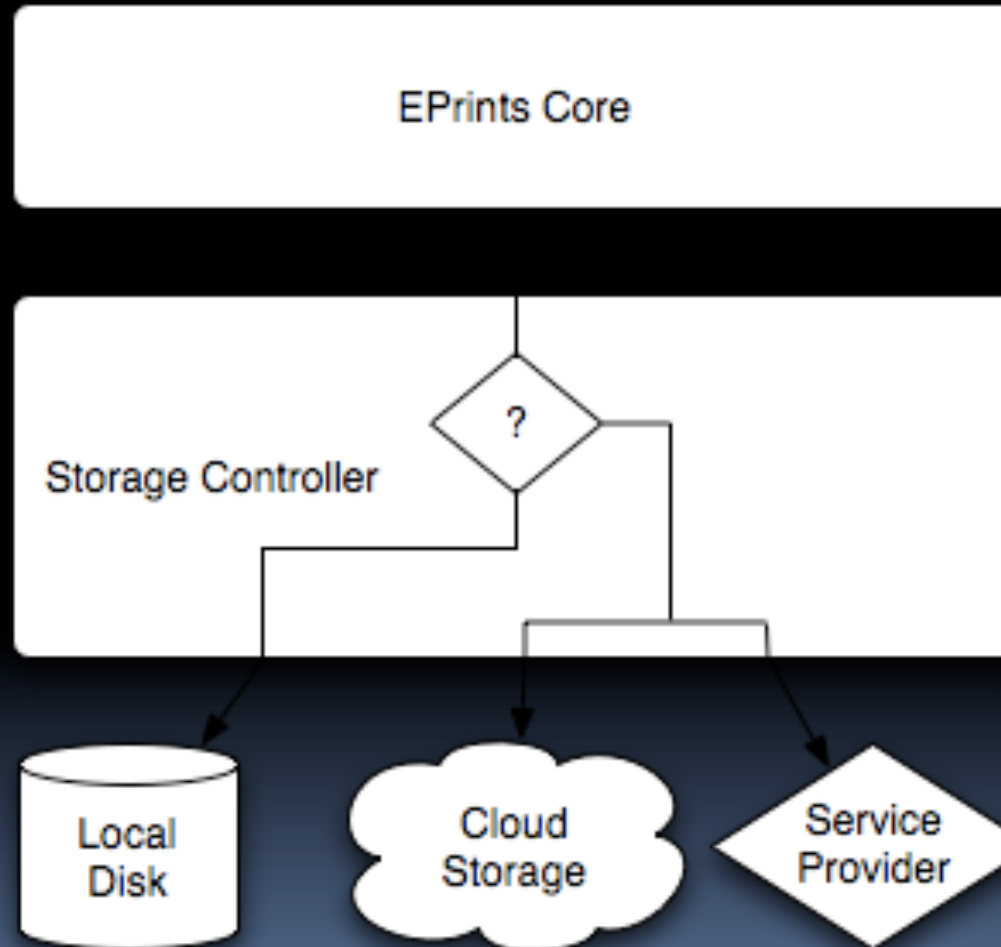
Improved  
Storage

# Storage Controller

- Files can be stored on multiple storage services
  - Local disk, SAN, NAS, Honeycomb, Cloud
- Various policies can be enacted through an EPCControl XML files.
- Services can be monitored and files swapped between services.

Improved  
Storage

# Storage Architecture





Improved  
Storage

# Storage Ruleset (example)

```
<choose>
  <when test="datasetid = 'document'">
    <choose>
      <when test="$parent{relation_type} = 'isVolatileVersionOf'">
        <plugin name="Local"/>
      </when>
      <otherwise>
        <plugin name="AmazonS3"/>
      </otherwise>
    </choose>
  </when>
  <otherwise>
    <plugin name="Local"/>
  </otherwise>
</choose>
```




Improved  
Storage

# Storage Manager

## Storage Manager


### Amazon S3 storage

There are 217 total files stored using this back-end, taking 3126Kb.

**Documents:**  217

### Local disk storage

There are 289 total files stored using this back-end, taking 1649Kb.

**History:**  289

### Compressed local disk storage

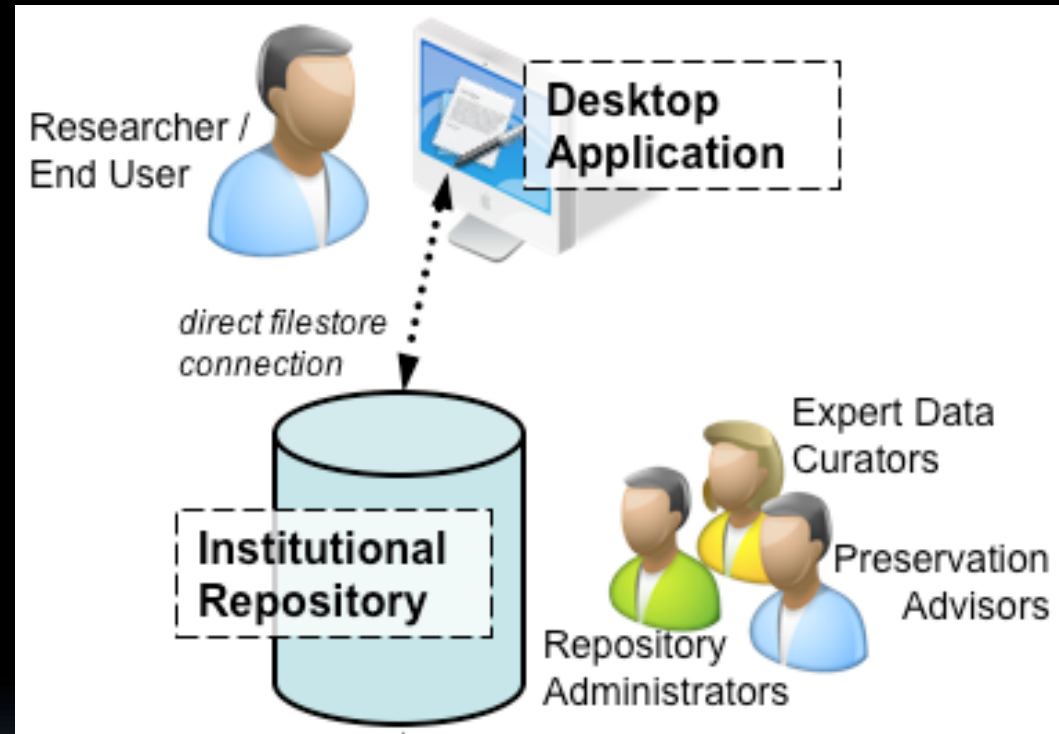
There are 85 total files stored using this back-end, taking 293Kb.

**History:**  85

Improved  
Storage

# Virtual File System

- A VFS module invents a view of the repository's files and structures as a hierarchical file system.



- *WebDAV and FTP servers are implemented to allow client desktops to mount the repository as a pseudo-filesystem.*





Improved  
Storage

# Preservation

- Creating abstractions of the files allows better preservation management
- A risk analysis process
  - catalogues all the available files and their file types
  - weighs the evidence for their preservability
  - assigns a score to each file

Improved  
Storage

# Preservation Risk Analysis



## Preserv 2

eprints

[Home](#) | [About](#) | [Browse by Year](#) | [Browse by Subject](#)



Logged in as Mr David C Tarrant | [Manage deposits](#) | [Profile](#) | [Saved searches](#) | [Review](#) | [Admin](#) | [Logout](#)

### Formats/Risks



This EPrints install is referencing a trial version of the risk analysis service. None of the risk scores are likely to be accurate and thus should not be used as the basis for a program of action.

#### High Risk Objects



OLE2 Compound Document Format   1

#### Medium Risk Objects

Microsoft Powerpoint Presentation (Version 97-2002)   3

#### Low Risk Objects

Portable Document Format (Version 1.4)   3

Portable Document Format (Version 1.3)   2

ZIP Format   2

## Interobject Relations

# Object Relationships

*Object relationships already appeared in v3.1  
Now we start to build new facilities using them*

### EPrints: repositories for grassroots preservation.

Carr, L. and Hitchcock, S. (2007) EPrints: repositories for grassroots preservation. In: *The Sun Preservation and Archiving Special Interest Group (Sun PASIG)*, 14-16 Nov 2007, Paris, France.

#### Download



**Presentation**  
Microsoft PowerPoint  
8Mb



**Presentation**  
PDF (Generated by "Save as PDF" in "Microsoft PowerPoint 2008" on MacOS X)  
9Mb



**Presentation**  
Plain Text (Plain text conversion conversion)  
text/plain  
7Kb



**Presentation**  
Rich Text (RTF) (Outline version save)  
29Kb



**Presentation**  
Image collection or slideshow (Generated by "Save as PDF" in "Microsoft PowerPoint 2008 for OS X")  
2280b

#### Abstract

The aim of this presentation is to tell a story. In the context of digital preservation, we deal with the issues of national libraries and enormous...

**Presentation**  
PDF (Generated by "Save as PDF" in "Microsoft PowerPoint 2008" on MacOS X)  
9Mb Hide options

**Content:** Presentation

**Format:** PDF

**Description:** Generated by "Save as PDF" in "Microsoft PowerPoint"

**Visible to:** Anyone

**License:** UNSPECIFIED

**Embargo expiry date:** Year:  Month: Unspecified Day: ?

**Relationships:**

Relation type	Target identifier
1. Mechanically derived from	http://eprints.ecs.soton.ac.uk/id/document/6779
2. Ultimately derived from	http://eprints.ecs.soton.ac.uk/id/document/6779
3. UNSPECIFIED	

[More input rows](#)

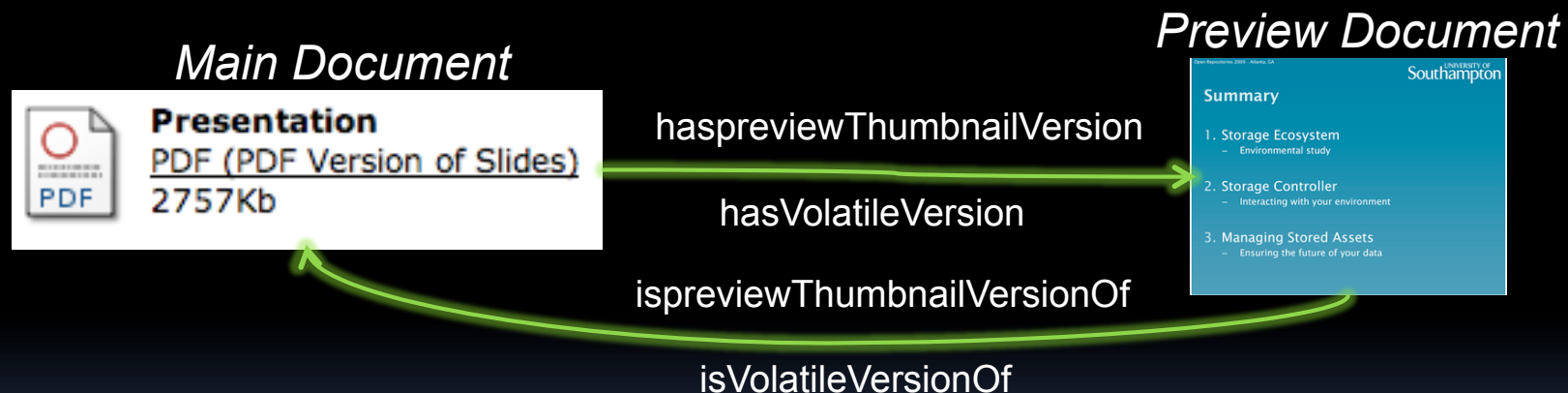
[Update Document](#) [Delete document](#)

PASIG-eprints.pdf 9Mb

Need to add additional files to this document?

# Complex Thumbnails

- Thumbnails were hidden files
- Now they are documents



- Now thumbnails can be different formats
  - png, jpg, flv...
- Thumbnails can be uploaded manually

# Thumbnail Addressing

- Main document
  - <http://eprints.com/123/4>
- Thumbnail
  - <http://eprints.com/123/4.haspreviewThumbnailVersion>
- Chaining Relationships
  - <http://eprints.com/123/4.haspreviewThumbnailVersion.ispreviewThumbnailVersionOf>

# Object IDs & REST

- All data objects have their own data set and id
  - <http://eprints.com/id/eprint/123>
  - <http://eprints.com/id/user/123>
  - <http://eprints.com/id/document/123>
- Type these into a browser URL and EPrints will redirect to the appropriate display object
  - e.g. the eprint that contains document id 123

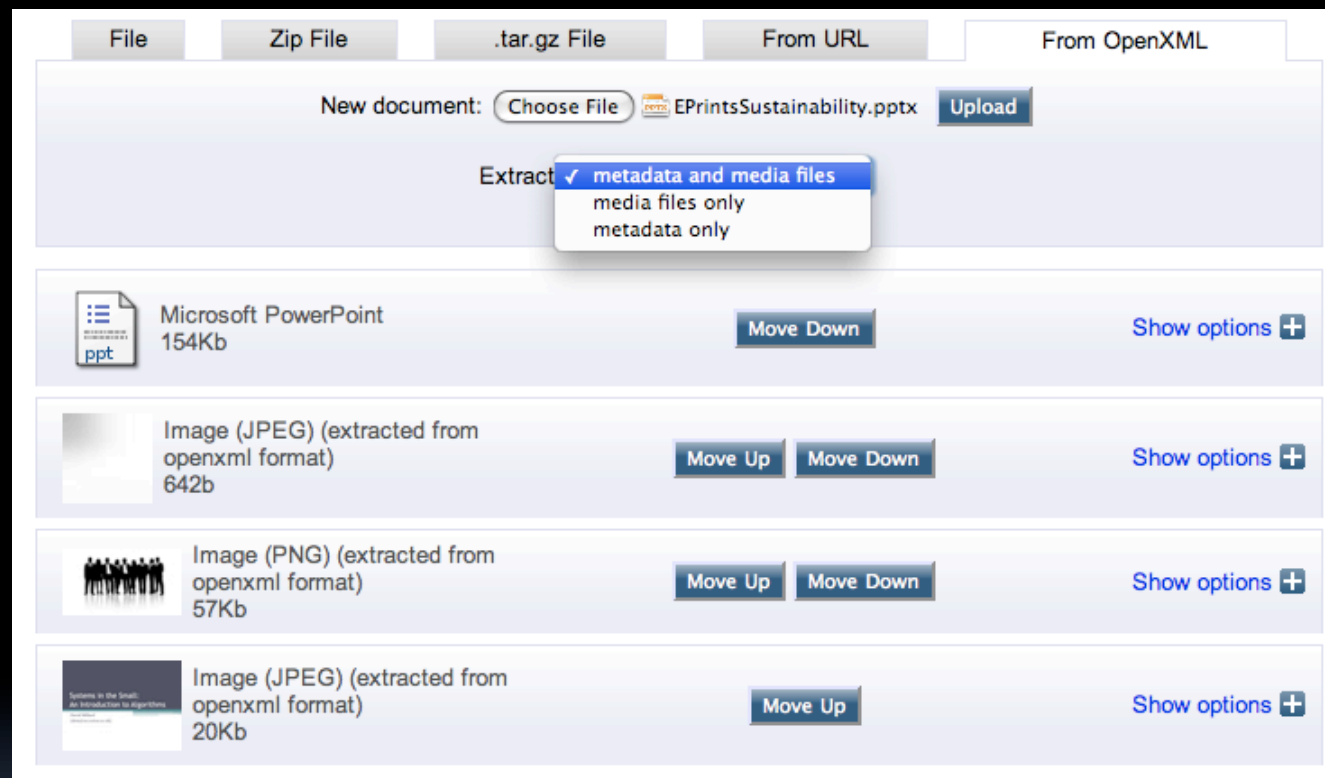


# Object IDs & REST

- EPrints objects are exposed as data for reading and writing through a Web interface
- <http://devel.eprints.org/cgi/rest/eprint/4.xml>
  - The XML output of an eprint
- <http://devel.eprints.org/cgi/rest/eprint/4/creators/2/name/family.txt>
  - The text of the surname of the second author of eprint 4

## Interobject Relations

# Microsoft Office Support



The screenshot displays a document upload interface with the following elements:

- Navigation tabs: File, Zip File, .tar.gz File, From URL, From OpenXML.
- New document section: "New document: Choose File" (with a file icon), "EPrintsSustainability.pptx", and an "Upload" button.
- Extract dropdown menu: "Extract" with options: "metadata and media files" (selected), "media files only", and "metadata only".
- File list:
  - Microsoft PowerPoint (154Kb) with a "Move Down" button and "Show options +" link.
  - Image (JPEG) (extracted from openxml format) (642b) with "Move Up" and "Move Down" buttons and "Show options +" link.
  - Image (PNG) (extracted from openxml format) (57Kb) with "Move Up" and "Move Down" buttons and "Show options +" link.
  - Image (JPEG) (extracted from openxml format) (20Kb) with a "Move Up" button and "Show options +" link.

- A new document upload tab allows PPTX/DOCX files to be burst open
  - Media files stored as related documents
  - Metadata added to the eprint
- Also happens with SWORD plugin

# Microsoft Office Support

- Potential application
  - auto generation of copyright auditing form for teaching materials
  - ... or theses

## Risk Assessment of Resources in Slideshow



No risk  Low-risk  Risky  Unknown



No risk  Low-risk  Risky  Unknown



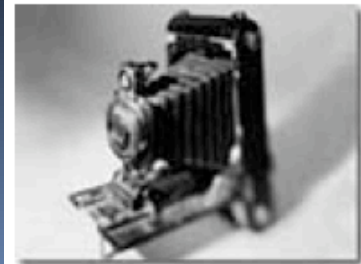
No risk  Low-risk  Risky  Unknown



No risk  Low-risk  Risky  Unknown



No risk  Low-risk  Risky  Unknown



No risk  Low-risk  Risky  Unknown



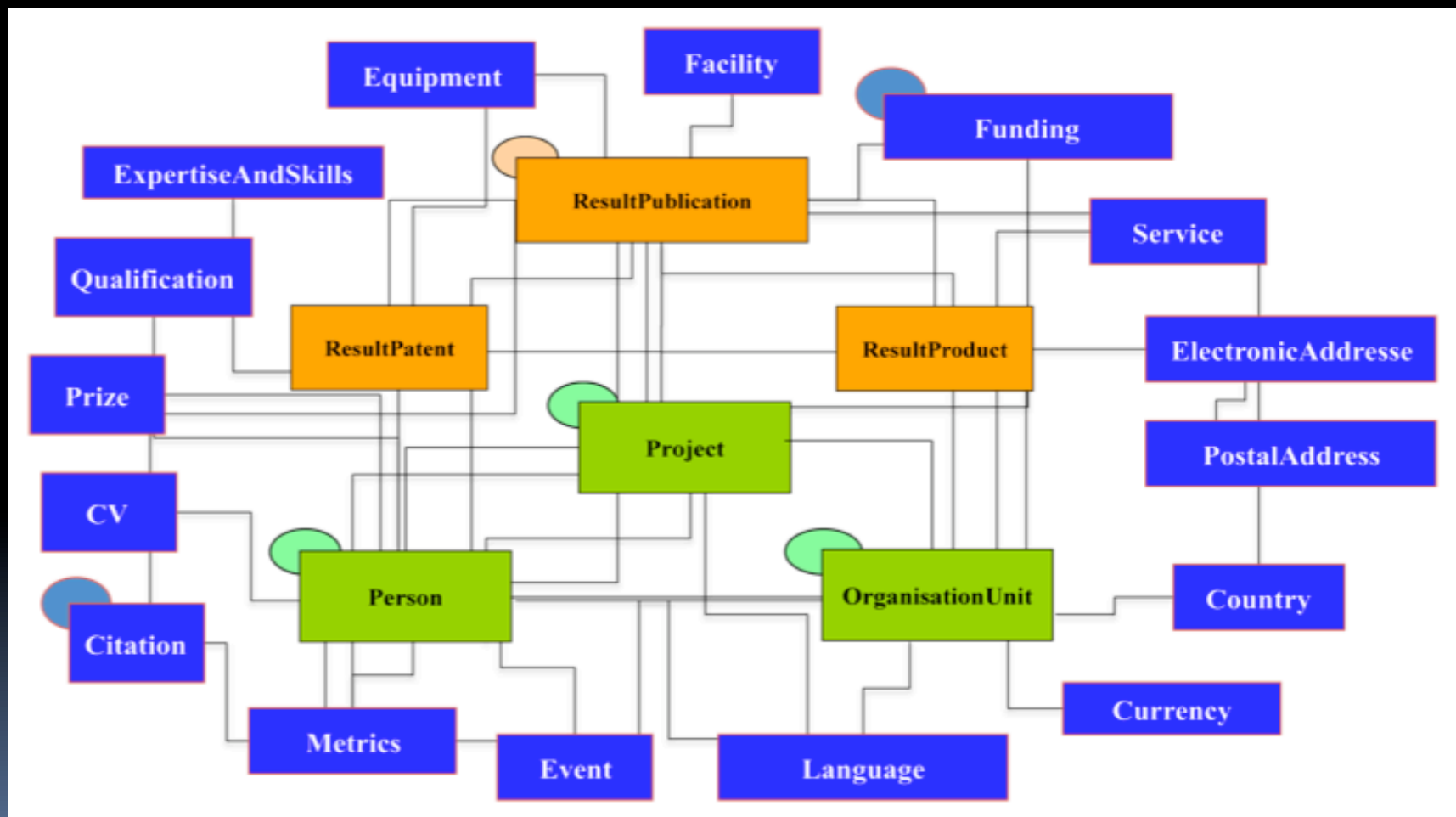
Extended  
Data

# Extendable Datasets

- A repository needs to be aware of more than just publications
  - users
  - projects
- The Current Research Information Systems (CRIS) community have a mature standard for describing this information
  - CERIF

Extended  
Data

# Extendable Datasets



- CERIF 2008 data model. <http://eurocris.org/>

# Extendable Datasets

- New Datasets can be created: e.g. project

## Manage Metadata Fields

This tool allows you to add metadata fields to your repository. Only fields added using this tool can be removed by this tool. To start configuring fields choose a dataset to add/remove fields from the following list.

### Datasets with Configurable Fields

<b>Eprints:</b>	Used to store eprints records	<a href="#">View Dataset Fields</a>
<b>Documents:</b>	Used to store documents metadata, for ALL of archive, inbox, etc.	<a href="#">View Dataset Fields</a>
<b>Users:</b>	Used to store info on eprints users	<a href="#">View Dataset Fields</a>
<b>Saved Searches:</b>	Used to store what searches users have and the frequency of alert emails	<a href="#">View Dataset Fields</a>
<b>Import:</b>	Stores the details of an import.	<a href="#">View Dataset Fields</a>
<b>Files:</b>	Used to store info about files	<a href="#">View Dataset Fields</a>
<b>Projects:</b>	Used to store CRIS-type information about projects	<a href="#">View Dataset Fields</a>

### Projects

<b>cois:</b>	Co-Investigators	From cfg.d
<b>datestamp:</b>	Datestamp	From cfg.d
<b>description:</b>	Description	From cfg.d
<b>funder:</b>	Funder	From cfg.d
<b>grantid:</b>	Grant ID	From cfg.d
<b>pis:</b>	Principal Investigators	From cfg.d
<b>projectid:</b>	ID	From cfg.d
<b>title:</b>	Title	From cfg.d
<b>value:</b>	Grant Value	From cfg.d
<b>workers:</b>	Project Team	From cfg.d

# Extendable Datasets

- New Datasets can be created: e.g. project

```
$c->{datasets}->{project} = {  
  class => "EPrints::DataObj",  
  sqlname => "project",  
  datestamp => "datestamp",  
};
```

```
$c->{fields}->{project} = [  
  {name => "projectid", type => "int"},  
  {name => "datestamp", type => "time"},  
  {name => "title", type => "text"},  
  ...  
];
```

- Just like `eprint_fields` !



Extended  
Data

# Extendable Datasets

- v3.2 will support CERIF
  - Standard CERIF data types
    - Project
    - Person
    - Organisation
    - Funding
    - Citation
    - Metrics
    - ResultPublication
  - Import, export and update via CERIF XML





Extended  
Data

# Citation Framework

- EPrints has supported Google Scholar citation counts since 3.1
  - But we didn't enable it due to licensing issues
- Now Thomson ISI are changing the licenses for Web of Science data
- Package to support Web of Science citation counts (works for 3.1)
  - <http://files.eprints.org/446/>
- (Similar package to be produced for GS)

Extended  
Data

# Citation Framework

Creators Name/Editors Name matches "jennings"

Displaying results 1 to 20 of 390.

Refine search | New search | Save search | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | Next

Order the results: by ISI citation count | Reorder

Export 390 results as ASCII Citation | RSS 2.0 | RSS 1.0 | BluScreen

Export

1. Wooldridge, M. J. and Jennings, N. R. (1995) *Intelligent Agents: Theory and Practice*, *the Knowledge Engineering Review*, 10 (2). pp. 115-144. (Cited 965 times in ISI and 3982 times in Google Scholar.)
2. Zambonelli, F., Jennings, N. R. and Wooldridge, M. (2003) *Developing multiagent systems: the Gaia Methodology*, *ACM Trans on Software Engineering and Methodology*, 12 (3). pp. 317-370. (Cited 193 times in ISI and 600 times in Google Scholar.)
3. Jennings, N. R., Faratin, P., Lomuscio, A. R., Parsons, S., Sierra, C. and Wooldridge, M. (2001) *Automated Negotiation: Prospects, Methods and Challenges*, *International Journal of Group Decision and Negotiation*, 10 (2). pp. 199-215. (Cited 105 times in ISI and 673 times in Google Scholar.)
4. He, M., Jennings, N. R. and Leung, H. (2003) *On agent-mediated electronic commerce*, *IEEE Trans on Knowledge and Data Engineering*, 15 (4). pp. 985-1003. (Cited 99 times in ISI and 205 times in Google Scholar.)

- Adds a WoS harvesting script, metadata fields and config changes
- In future will add citation data support for Scopus, ACM/IEEE etc

Extended  
Data

# IRStats

The view determines how data is rendered and may provide additional data refinements (for example showing a summary for authors).

The screenshot displays a grid of data visualization options categorized into four groups:

- Summary Data:** Includes MonthlyDownloadsGraph, DailyDownloadsGraph, and MonthlyUniqueVisitorsGraph.
- Simple Analyses:** Includes TopTenTable, ReferrerGraph, and SearchEngineGraph.
- Complex Analyses:** Includes TopTenMonthlyDownloadsGraph, TopTenAuthorsTable, and TopTenTableDashLinked.
- Unknown:** Includes TopTenISICitationCount, TopTenTotalDownloads, and ISIFactorHTML.

Specific data points visible in the 'Complex Analyses' section include a table of authors and their download counts:

Author	Download Count
Hamad, Steven	1210
Hall, Wendy	1197
Shadish, Nigel	987
Harris, Lajos	904
Bentzen-Lee, Tim	766
Herrings, Nick	378

- IRstats has been integrated into EPrints and is no longer a standalone install
  - Package available from [files.eprints.org](http://files.eprints.org)
  - Works on v3.1 repositories
- Is being extended to work with citation statistics and other evidence of use
  - ISI citation counts, h factors etc

Extended Data

# IRStats

The view determines how data is rendered and may provide additional data refinements (for example showing a summary for authors).

Summary Data

MonthlyDownloadsGraph

DailyDownloadsGraph

MonthlyUniqueVisitorsGraph

Simple Analyses

TopTenTable

ReferrerGraph

SearchEngineGraph

Complex Analyses

TopTenMonthlyDownloadsGraph

TopTenAuthorsTable

TopTenTableDashLinked

Unknown

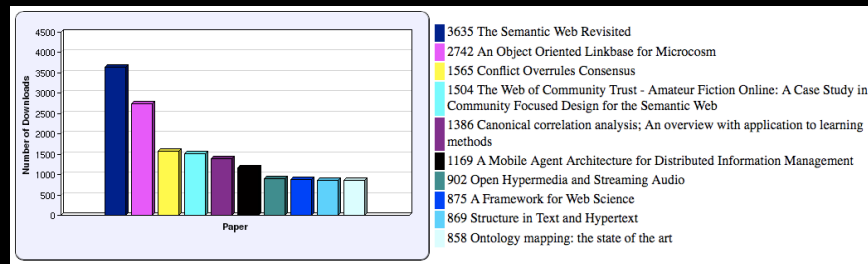
TopTenISICitationCount

TopTenTotalDownloads

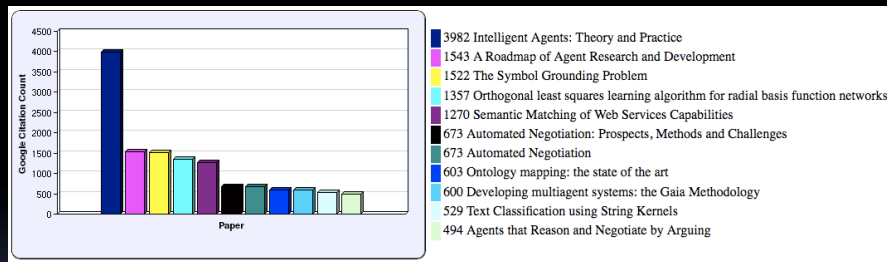
48

ISIFactorHTML

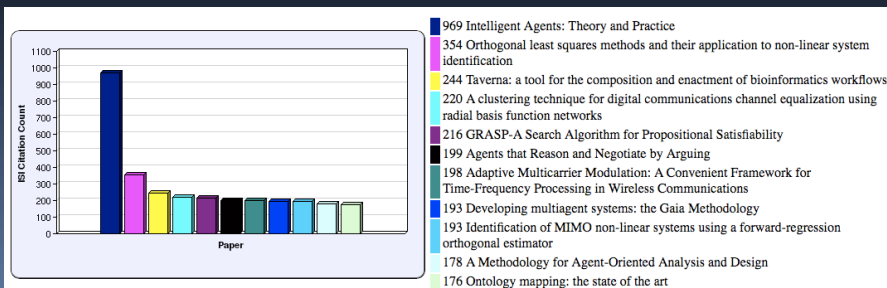
03



Top 10 papers by download



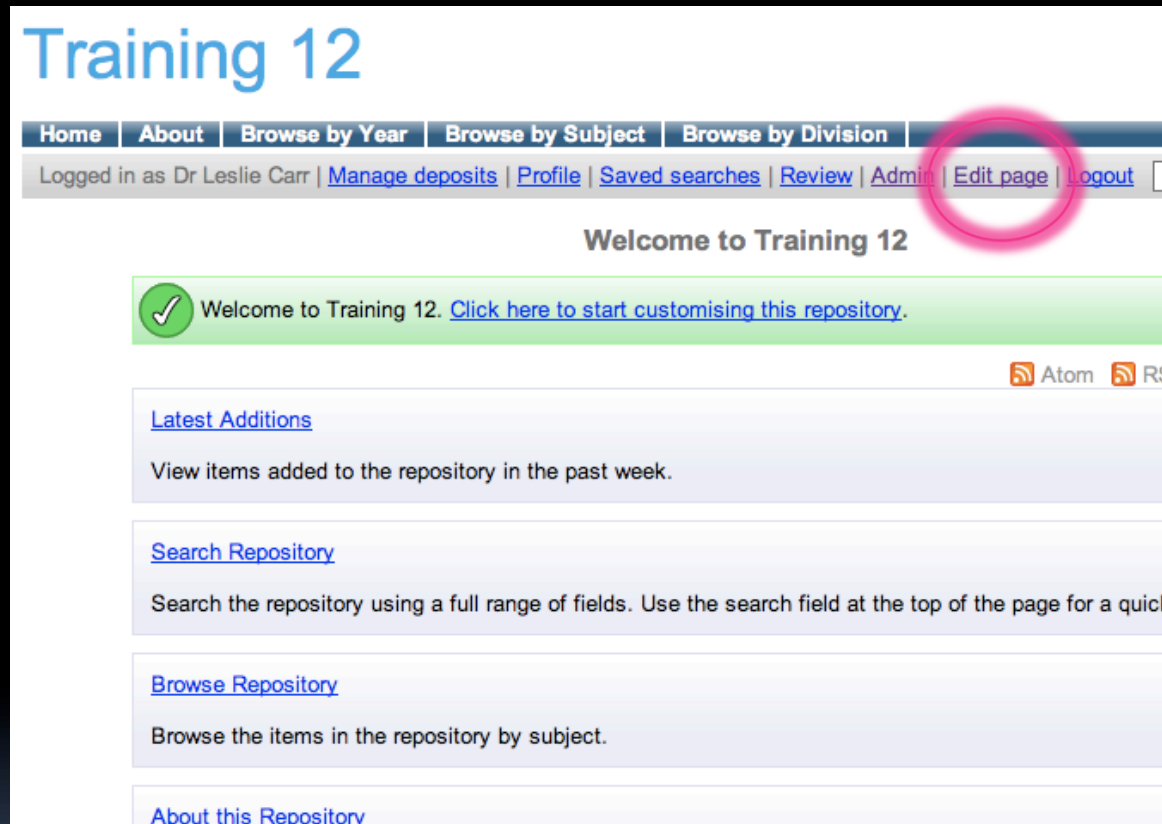
Top 10 papers by Google Scholar Citation counts



Top 10 papers by Web of Science Citation counts

Better  
Management

# Direct Page Editing




The screenshot shows the 'Training 12' repository page. The navigation bar includes links for Home, About, Browse by Year, Browse by Subject, Browse by Division, and a circled 'Edit page' link. Below the navigation bar, the user is logged in as 'Dr Leslie Carr' and has access to 'Manage deposits', 'Profile', 'Saved searches', 'Review', 'Admin', and 'Logout'. A green message box says 'Welcome to Training 12. Click here to start customising this repository.' Below this are sections for 'Latest Additions', 'Search Repository', 'Browse Repository', and 'About this Repository'. RSS feeds for Atom and RSS are also visible.

- Edit the contents of static pages directly
  - Home page, help pages *etc*

Better  
Management

# Direct Page Editing

Training 12 

Home | About | Browse by Year | Browse by Subject | Browse by Division

Logged in as Dr Leslie Carr | [Manage deposits](#) | [Profile](#) | [Saved searches](#) | [Review](#) | [Admin](#) | [Edit page phrases](#) |

[Logout](#)

**Edit XPage config file: lang/en/static/index.xpage**

[View other configuration files.](#)  
[View Documentation.](#)

**- Edit using external Editor**



Here you can download the entire page to edit offline using editors such as frontpage and re-upload it back into EPrints. Image manipulation is not supported.

[Download as HTML \(encapsulated\)](#)

Upload HTML (encapsulated)  no file selected [Upload](#)

**+ Edit XPage code**

**- Change/Upload Images**

	<b>sitelogo.gif</b> Change: <input type="text" value="Choose File"/> no file selected <a href="#">Upload</a>
	<b>message.png</b> Change: <input type="text" value="Choose File"/> no file selected <a href="#">Upload</a>

- Either export to favourite HTML editor, or edit in place in a Web form. Images can be substituted.

Better  
Management

# Per-page Phrase Editing

- Instead of editing ALL phrases in system, can edit only those used on current (dynamic) page

Training 12 eprints

Home About Browse by Year Browse by Subject Browse by Division

Logged in as Dr Leslie Carr | [Manage deposits](#) | [Profile](#) | [Saved searches](#) | [Review](#) | [Admin](#) | [Edit page phrases](#)  Search

Logout

### Manage Metadata Fields

Files

<b>classification_date:</b>	["file_fieldname_classification_date" not defined]	From cfg.d
<b>classification_quality:</b>	["file_fieldname_classification_quality" not defined]	From cfg.d
<b>copies:</b>	["file_fieldname_copies" not defined]	Core Field
<b>data:</b>	["file_fieldname_data" not defined]	Core Field
<b>datasetid:</b>	Object dataset id	Core Field
<b>fileid:</b>	Unique file id	Core Field
<b>filename:</b>	File name	Core Field
<b>filesize:</b>	File size	Core Field
<b>hash:</b>	File checksum	Core Field
<b>hash_type:</b>	Checksum type	Core Field
<b>in_pronom_uid:</b>	["file_fieldname_in_pronom_uid" not defined]	From cfg.d
<b>mime_type:</b>	["file_fieldname_mime_type" not defined]	Core Field
<b>mtime:</b>	File modification time	Core Field
<b>objectid:</b>	Object id	Core Field
<b>pronomid:</b>	["file_fieldname_pronomid" not defined]	From cfg.d
<b>url:</b>	["file_fieldname_url" not defined]	Core Field

Better  
Management

# Per-page Phrase Editing

- Instead of editing ALL phrases in system, can edit only those used on current (dynamic) page

The screenshot shows a web application interface for editing phrases. At the top, there is a navigation bar with links: Home, About, Browse by Year, Browse by Subject, and Browse by Division. Below this, a user is logged in as Dr Leslie Carr, with links for Manage deposits, Profile, Saved searches, Review, Admin, Edit page phrases, and Logout. The main heading is "Editing phrases from page 'Manage Metadata Fields'". Below this, there is a return link to "Manage Metadata Fields" and a note: "This tool writes modified phrases to zz\_webcfg.xml. Click the phrase text to edit it. Javascript required." The interface displays a table with two columns: "Identifier" and "Content". The table has three rows, each with a light blue background. The first row has the identifier "datasets\_typename\_file" and the content "This phrase is used in the page, but has not been defined yet." Below the content is a text input field and three buttons: "Save", "Reset", and "Cancel Edit". The second row has the identifier "file\_fieldname\_classification\_date" and the same content. The third row has the identifier "file\_fieldname\_classification\_quality" and the same content.

Identifier	Content
datasets_typename_file	This phrase is used in the page, but has not been defined yet. <input type="text"/> <input type="button" value="Save"/> <input type="button" value="Reset"/> <input type="button" value="Cancel Edit"/>
file_fieldname_classification_date	This phrase is used in the page, but has not been defined yet. <input type="text"/>
file_fieldname_classification_quality	This phrase is used in the page, but has not been defined yet. <input type="text"/>





Better  
Management

# Import / Updates

- The commandline import script now accepts a new argument
  - `/opt/eprints3/bin/import --enable-updates`
- Any imported item that specifies an *eprintid* that already exists will update the fields in that item that are given in the imported data.

Better  
Management

# Updates via Spreadsheet

- New format 'Multiline Excel' makes updates easier

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	eprintid	rowid	type	creators_na	creators_na	creat	creat	creators_i	title					
2	9170	9170_0	conference	Ankolenkar	Anupriya				DAML-S: A Semantic Markup Language For Web Services					
3	9170	9170_1		Burstein	Mark									
4	9170	9170_2		Hobbs	Jerry									
5	9170	9170_3		Lassila	Ora									
6	9170	9170_4		Martin	David									
7	9170	9170_5		McIlraith	Sheila									
8	9170	9170_6		Narayanan	Srini									
9	9170	9170_7		Paolucci	Massimo									
10	9170	9170_8		Payne	Terry R.			4398						
11	9170	9170_9		Sycara	Katia									
12	9170	9170_10		Zeng	Honglei									
13	5741	5741_0	conference	Anthony	P.				Autonomous Agents for Participating in Multiple On-line Auctions					
14	5741	5741_1		Hall	W.			1650						
15	5741	5741_2		Dang	V.									
16	5741	5741_3		Jennings	N. R.			2355						
17	6152	6152_0	conference	Bourne	R. A.				Dynamic evaluation of coordination mechanisms for autonomous a					
18	6152	6152_1		Shoop	K.									
19	6152	6152_2		Jennings	N. R.			2355						
20	4234	4234_0	conference	Bussmann	S.				On the Identification of Agents in the Design of Production Control					
21	4234	4234_1		Jennings	N. R.			2355						
22	4234	4234_2		Wooldridge	M. J.									
23	5834	5834_0	conference	Carr	Leslie			60	Conceptual Linking: Ontology-based Open Hypermedia					
24	5834	5834_1		Hall	Wendy			1650						
25	5834	5834_2		Bechhofer	Sean									
26	5834	5834_3		Goble	Carole									
27	9196	9196_0	conference	Davis	H.C.			46	Linking Experiences: Issues Raised Developing Linkservices for R					
28	9196	9196_1		White	S.A.			95						
29	9196	9196_2												
30	9196	9196_3												
31	9666	9666_0	conference	Davis	HC			46	Managing Diversity: Experiences Teaching Programming Principle					
32	9666	9666_1		Carr	LA			60						
33	9666	9666_2		Cooke	EC			45						
34	9666	9666_3		White	SA			95						
35	10529	10529_0	conference	Dominique	John				Supporting ontology driven document enrichment within communit					
36	10529	10529_1		Motta	Enrico									
37	10529	10529_2		Buckingham	Simon									
38	10529	10529_3		Vargas-Vera	Maria									
39	10529	10529_4		Kulkarni	Manish			1118						

Each eprint assigned several rows to accommodate multiple field values.

Sort by row\_id to return to proper order.

Can delete cols for any field, but all compound fields must be either completely present or completely absent



Improved  
Management

# Coming Soon

- Scheduler / Calendar interface to event planning
- Multistage Editorial Control
- Manual raising of Quality Issues



Improved  
Userment

# Miscellaneous

- Geolocation-based autocompleters
  - cities / countries
  - research institutions
- Lightbox-based previews
- Progress bar
- Document ordering
  
- Coming soon
  - User profiles
  - User-defined collections
  - Funders / projects / grant id autocompleters

# Conclusions

- EPrints as a competent and mature part of the researcher's information environment
- Integrating with their desktop knowledge creation activities (making and editing documents)
- Syndicating rich summaries to Web portals, Web 2 and social networking environments
- Participating in linked data / semantic web

# Conclusions

- EPrints as a competent and mature part of the institution's information environment
- Providing open access, sustainable storage and management services to research community
- Leveraging information about research outputs for senior management to guarantee service sustainability