



EPrints: institutional services and software futures

Leslie Carr

*EPrints Technical Director
& EPrints Repository Manager
& Information Systems Researcher*



Overview

- ▶ EPrints software capabilities
- ▶ Forthcoming software capabilities
- ▶ Institutional embedding at Southampton
- ▶ EPrints Commercial Services



What is EPrints

- ▶ A team of researchers
- ▶ A team of developers
- ▶ A piece of software
- ▶ A commercial service
- ▶ Embedded in a Research-Driven University



EPrints Team Researchers

▶ Stevan Harnad

▶ Les Carr

▶ Tim Brody

▶ Steve Hitchcock

▶ Jessie Hey

▶ *The team has over ten years of experience of Open Access issues; it has been developing EPrints software for seven years.*



▶ *Research issues: practical preservation, data management, impact measurement, policy development.*



EPrints Team Development & Support

- ▶ Chris Gutteridge
- ▶ Tim Miles-Board
- ▶ Mike Jewell
- ▶ John Darlington
- ▶ Alma Swan
- ▶ Siobhain Dales

- ▶ *Training*
- ▶ *Community*
- ▶ *Development*
- ▶ *Project Support*
- ▶ *Outsourcing*
- ▶ *Hosting*





Why EPrints?

- ▶ Software
 - ▶ To promote Open Access
 - ▶ Through adopting Institutional Repositories
 - ▶ To foster institutional change
 - ▶ Academic attitudes & working practices
- ▶ Ultimately working towards
 - ▶ Explicit Information Capture
 - ▶ Semantic Web
 - ▶ Knowledge Services
 - ▶ see *Advanced Knowledge Technologies*



What is EPrints Software?

- ▶ EPrints is a Web-based server that enables you to build a **repository** that allows **individuals** to deposit **important digital items** with **appropriate metadata**
 - ▶ for dissemination
 - ▶ for curation
 - ▶ for marketing
 - ▶ for reporting
- ▶ EPrints has enjoyed the largest user base of public repositories (209 worldwide)
- ▶ EPrints emphasises low impact, low cost and practical solutions



The EPrints Environment

- ▶ EPrints is
 - ▶ a simple content management system
 - ▶ extensively configured to accommodate the needs of academics and researchers
 - ▶ aimed at dissemination and reporting
 - ▶ designed to be Google-friendly
 - ▶ designed to be OAI-compliant
 - ▶ **highly configurable to achieve diverse needs**
 - ▶ built on a coding platform that is amenable to rapid development



Vanilla EPrints Repository



- ▶ Fixed home page
- ▶ Standard layout
- ▶ Standard searches & views
- ▶ Useful set of metadata (title, abstract, journal, volume *etc.*)
- ▶ Standard set of data types (authors, dates, etc)
- ▶ Standard OAI on by default

- ▶ Useful but bland and yet highly configurable

Repositories for all organisations



... institution,
department, project,
subject, collection or
service



See www.eprints.org/software/examples
or archives.eprints.org



Question: Your Customisation Needs?

- ▶ What does your institution need from an EPrints installation?
 - ▶ What sort of 'digital objects' do you need to collect?
 - ▶ What sort of metadata do you need to collect about them?
 - ▶ What sorts of ways do you want people to view the collections?
 - ▶ What facilities do you want to provide?



EPrints Full 10-Step Programme

1. Brand your repository
logos, stylesheets, layout, portal
2. Define information objects and their metadata
articles, theses, books etc
3. Declare the deposit workflows
including help text, examples and validation rules
4. Define collections, searches, subscriptions
5. Refine rendering for information objects
 6. Expose new metadata fields
 7. Deploy embedded applets, media players on abstract page
 8. Define new citation styles
 9. Define OAI mapping
10. Populate repository.
Go to step 1 to revisit requirements.



EPrints Fast 2-Step Programme

1. Brand your repository
logos, stylesheets
10. Populate repository.
 - Two-step programme is sufficient to get started
 - EPrints defaults provide useful starting point
 - There will be many stages in the repository history
 - demo, pilot, first official release, relaunch



2-Step Success

- ▶ Appears distinctive
- ▶ A default EPrints install styled differently

University of Pittsburgh ♦ Graduate School of Public Health

The Minority Health Archive

HOME ABOUT BROWSE SEARCH REGISTER REGISTERED USERS AREA HELP

Center for Minority Health, Graduate School of Public Health

Search the Titles, Abstracts and Keywords

Browse by Subject
Browse by Year
Pioneers Collection
Latest Additions - View items added to the archive in the past week.
Simple Search - Search the archive using the most common fields.
Advanced Search - Search the archive using a more complex range of fields.
Registered Users Area - Registered users may submit items to the archive.
Register - Register for an account (or reset a forgotten password).

At present, the Minority Health Archive contains 274 documents

Running on *GNU EPrints* archive-creating software, which generates eprints archives that are compliant with the Open Archives Protocol for Metadata Harvesting OAI 1.1 and 2.0. The eprints.org archive-creating software is available for free at <http://www.eprints.org/>.

Hosted by the University Library System

Site Administrator: minority-health@library.pitt.edu

10-Step Success - Second Cycle

University of Southampton Crystal Structure Report Archive

Home About Browse Search Register User Area Help Single

5- Cyano- 2- methyl- 4- phenyl- 1- (5,6,7- tris(acetoxy)- 2,10- dioxo- 3,9- dioxo- undeca- 4- yl)- 2- aza- 7- thiabicyclo[2.2.1]heptane- 3- one

M. J. Arevalo, M. Avalos, R. Babiano, P. Cintas, M. B. Hursthouse, J. L. Jimenez, M. E. Light and J. C. Palacios.

University of Southampton
C28H32N2O11S

InChI Code: C28H32N2O11S,1H3-15(31)37-14H2- 23H(38-16(2H3)32)24H(39- 17(3H3)33)25H(40-18(4H3)34)26H(41- 19(5H3)35)27- 13H2-22H(7- 29)28(42-27,21(36)30(27)6H3)20- 11H- 9H- 8H-10H- 12H- 20 ([google for ichi](#))

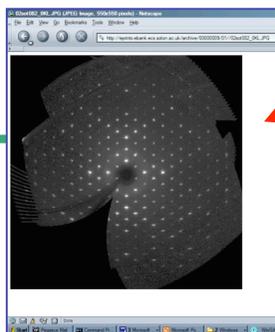
Compound Class: Organic
Keywords: Controlled Keywords UNSPECIFIED
Creation Date: 26 September 2001
Deposited By: [Susanne L. Huth](#)
Deposited On: 03 August 2004

Available Files

Final Result

- ▶ Data repository which collects data sets and exposes scientific metadata.
- ▶ Schema standards accepted by international subject body.

Data collection parameters		
Chemical formula	C28 H32 N2 O11 S	01esp301_data/01esp301_CIF 17k
Crystallisation Solvent		01esp301_data/01esp301_cml 11k
Crystal morphology		01esp301_data/01esp301_inchi.cml 1k
Crystal system	Orthorhombic	Validation
Space group symbol	P2(1)2(1)2(1)	01esp301_data/01esp301_cif.html 15k
Cell length a	10.9877(7)	Refinement
Cell length b	11.9703(8)	01esp301_data/01esp301.res 10k
Cell length c	22.4663(18)	01esp301_data/01esp301_xl.lst 48k
Cell angle alpha	90.00	Solution
Cell angle beta	90.00	01esp301_data/01esp301_PRP 6k
Cell angle gamma	90.00	01esp301_data/01esp301_xs.lst 47k
Data collection temperature	120(2)	Processing
		01esp301_data/01esp301.HKL 468k
		01esp301_data/01esp301.HTM 6k
		Other Files
Refinement results		01esp301_data/01esp301.DOC 290k
Solution figure of merit	0.1386	01esp301_data/01esp301.mol 6k
R Factor (Obs)	0.0648	Archive Staff Only: edit this record
R Factor (All)	0.3088	
Weighted R Factor (Obs)	0.1318	
Weighted R Factor (All)	0.1930	



h	k	l	I	σ(I)
12	0	-1	7.05	3.02
12	0	1	6.12	4.12
12	0	2	3.09	3.09
12	0	3	14.79	4.22
12	0	4	4.15	4.15
12	0	5	12.62	4.14
11	5	-2	15.04	4.01
11	5	-1	9.02	3.01
11	-5	1	8.20	3.10
11	-5	2	40.42	3.08
11	-5	3	46.42	3.11
11	-4	4	11.95	3.09
11	-4	3	20.17	3.04
11	-4	2	27.89	4.13
11	-4	1	2.07	2.07
11	-4	0	1.00	3.01
11	3	-4	2.06	3.07
11	-3	4	8.20	3.07
11	3	-4	1.10	3.06
11	3	-3	14.85	4.08
11	3	-2	15.04	4.08
11	3	-1	7.19	3.08
11	3	0	8.14	3.08
11	3	1	13.25	4.08
11	3	2	3.09	3.08
11	3	3	8.13	3.08
11	2	-1	42.82	4.08
11	-2	1	50.40	5.17
11	-2	2	14.65	4.14
11	2	-1	15.13	4.04
11	2	-2	1.02	3.08
11	2	-3	1.00	2.06
11	-2	3	2.04	3.07



EPrints Services

- ▶ Work with Library Staff
 - ▶ Determine backlog & legacy systems
 - ▶ Support batch data import
 - ▶ Repository Capability Training
- ▶ Work with Technical Staff
 - ▶ Installation Assistance & Advice
 - ▶ Repository Configuration and Management Training
 - ▶ 2- or 10-Step Configuration
- ▶ Host the Repository
- ▶ Like The Goodies “We Do Anything, Anytime, Anywhere”.
 - ▶ Community Membership, Training, Bespoke Coding



How is EPrints Deployed?

- ▶ Research
 - ▶ Research outputs: papers, theses, multimedia (music, sculptures, performances, textiles *etc*) [TARDIS]
 - ▶ Research data [EBank]
 - ▶ Research Laboratory workflow [R4L]
 - ▶ E-research / E-learning managed environments (learning contracts, research workflow -> journal submission) [CORE]
 - ▶ Research administration and assessment [IRRA]
- ▶ Teaching
 - ▶ Learning Objects [MURLLO]
- ▶ Publishing
 - ▶ Journal reviewing management (BBSprints)
- ▶ Preservation
 - ▶ Preservation services [PRESERV]



Automatically updated CV

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 About ECS | Admissions and | Research | People | Publications | Contact ECS

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Publications, PrePrints etc.

Number of records: 102.

Publications, PrePrints etc.

Carr, L. A., Davis, H. C. and White, S. A. (2004) *AnnAnn - a Tool to Scaffold Learning about Program*. *Semantic Web - International Conference on Semantic Web*, LNCS 3177, Springer, Berlin, Germany.

Miles-Board, T., Bailey, C., Hall, W. and Carr, L. (2004) *Building a Companion Website in the Semantic Web*. *International Conference on Semantic Web*, LNCS 3177, Springer, Berlin, Germany.

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Miles-Board, T., Carr, L., Kamps, S. and Hall, W. (2003) *Supporting Management Reporting: A Web Case Study*. *In Proceedings of the Twelfth International World Wide Web Conference (WWW2003)*, pages 214-224, Budapest, Hungary.

Carr, L., Wills, G., Miles-Board, T., Power, G., Bailey, C., Hall, W. and Grange, S. (2003) *Building a Dynamic Review Journal: Support for Creating and Using the Literature*. *In Proceedings of the Twelfth International World Wide Web Conference (WWW2003)*, pages 214-224, Budapest, Hungary.

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Hughes, G. and Carr, L. (2002) *Micro-World: Smart Tips, Support, Update or content item?*. *In Proceedings of the Twelfth ACM Conference on Hypertext and Hypermedia (HT'02)*, pages 99-104, Cambridge, Massachusetts, USA.

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(2002) *Publications in Science: Scientific Communication from Publications Web to a Data Grid*. *In Proceedings of the Twelfth ACM Conference on Hypertext and Hypermedia (HT'02)*, October, Frey, J. G., De Roure, D. and Carr, L. A., Eds.

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Carr, L., Hall, W., Bochler, S. and Goble, C. (2001) *Conceptual Linking: Ontology-based Open Hypertext*. *In Proceedings of the Twelfth ACM Conference on Hypertext and Hypermedia (HT'02)*, October, Frey, J. G., De Roure, D. and Carr, L. A., Eds.

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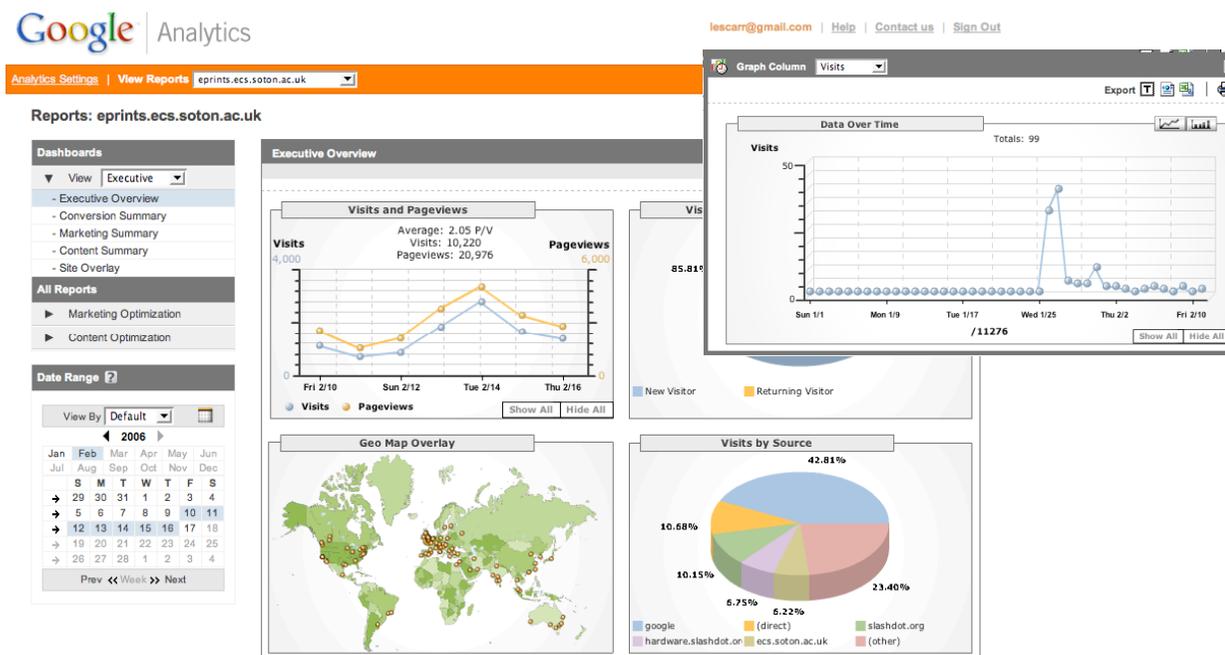
On all researchers personal home pages. Also group lists for each research group's portal.





Marketing Analysis

Google Analytics provides simple mechanism for sophisticated repository statistics





Eprints 3: New Features

- ▶ User-based Export Plugins
 - ▶ Export selected EPrints records (*e.g.* results of a query) to XML, Endnote, BibTeX, RSS etc
- ▶ User-based Import Plugins
 - ▶ Import data from XML, Endnote, BibTeX *etc* directly into individual work area.
- ▶ Embargo support
 - ▶ Automatically expire funder- or publisher- imposed embargos
- ▶ Request document
 - ▶ Enable readers to request a copy of restricted or missing documents via email



New Features

- ▶ Audit trail
 - ▶ View log of all actions on and changes to an Eprint
 - ▶ Diffs between versions
- ▶ More flexible editorial review processes
- ▶ Improved metadata entry workflow
 - ▶ with shortcuts to individual metadata pages
 - ▶ metadata entry is customisable on a per-user or per-eprint basis
- ▶ Easier and more accurate metadata entry



EPrints 3 Metadata Entry

Metadata Entry [Upload](#) [Metadata](#) [Preview](#) [Submit](#)

Before you deposit this entry into the repository, the following problems need to be corrected:

- You haven't filled out the required Title field

Uploader

Filename	Size	Type
Please upload some files.		
Choose File		Upload

Title Required [Help](#)

Repository Interoperability from the User's Perspective

Authors/Creators Required [Help](#)

Name (First Name, Given Name)	Creator's Email (if known)
1. <input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>

Publication Details Help

Publication Title Required

Volume

Number

Pages

ISSN

Keywords Help

[Previous](#) [Next](#)

Authors/Creators Required [Help](#)

Name (First Name, Given Name)	Creator's Email (if known)
1. Ch	<input type="text"/>
2. Christopher Gutteridge	<input type="text"/>
3. Michael O. Jewell	<input type="text"/>
Mischa Tuffield	<input type="text"/>

Authors/Creators Required [Help](#)

Name (First Name, Given Name)	Creator's Email (if known)
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Publication Details Help

Publication Title Required

Volume

Number

Pages

ISSN

Publication Details Help

Publication Title Required

Volume

Number

Pages

ISSN



EPrints3: Record of Metadata Changes

[Move Item to Editorial Review](#) | [Retire Item](#) | [New Version](#) | [Use as Template](#) | [View Records awaiting Editorial Review](#)

Summary	Full Record	Export	Export	Edit	Edit	History
-------------------------	-----------------------------	------------------------	------------------------	----------------------	----------------------	-------------------------

Observations on the House Martin (eprint 14 r7)	
Modified by Christopher Gutteridge at 10:29:36 on 06 July 2006	
Before	After
<pre><subjects> <item>JN</item> <item>KF</item> <item>D880</item> <item>DL</item> <item>QR355</item> <item>DS</item> </subjects> <rev_number>5</rev_number> <lastmod>2006-07-06 10:29:29</lastmod></pre>	<pre><subjects> <item>QR355</item> <item>DL</item> <item>D880</item> <item>DS</item> </subjects> <rev_number>7</rev_number> <lastmod>2006-07-06 10:29:35</lastmod></pre>

Observations on the House Martin (eprint 14 r6)	
Modified by Christopher Gutteridge at 10:29:29 on 06 July 2006	
Before	After
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Observations on the House Martin (eprint 14 r5)



Institutional Embedding

'We see our Institutional Repository as a key tool for the stewardship of the University's digital research assets,' said Professor Paul Curran, Deputy Vice Chancellor of the University. 'It will provide greater access to our research, as well as offering a valuable mechanism for reporting and recording it.'

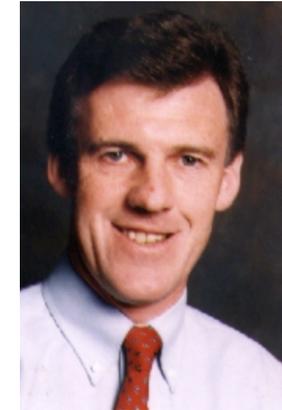
Southampton Press Release 15 Dec 2004





Institutional Embedding

- University mandate for all potential RAE outputs to be deposited
- Funding to boost IR support for the RAE
- Aim for IR to be fully embedded as tool for research support
- Endorsement from DVC for Research and Heads of Schools



University of Southampton:
endorsement through semi-mandate

Prof Philip Nelson
DVC for Research
and Enterprise



Institutional Embedding

- ▶ Dedicated library staff + initial JISC support + lots and lots and lots of f2f
- ▶ Build on existing liaison librarians
- ▶ Three staff share out role of lead link for the 20 Schools – one 0.5 FTE dedicated to this role, 2 roles embedded as part of day to day work
- ▶ Variety of models of activity – author self-deposit, School administrator deposit, upload from existing School database
- ▶ Challenge of getting “deep” levels of liaison e.g. technical staff, School RAE Manager, School editors, Deputy Heads of School Research, Heads of Schools



RAE push: Metadata team

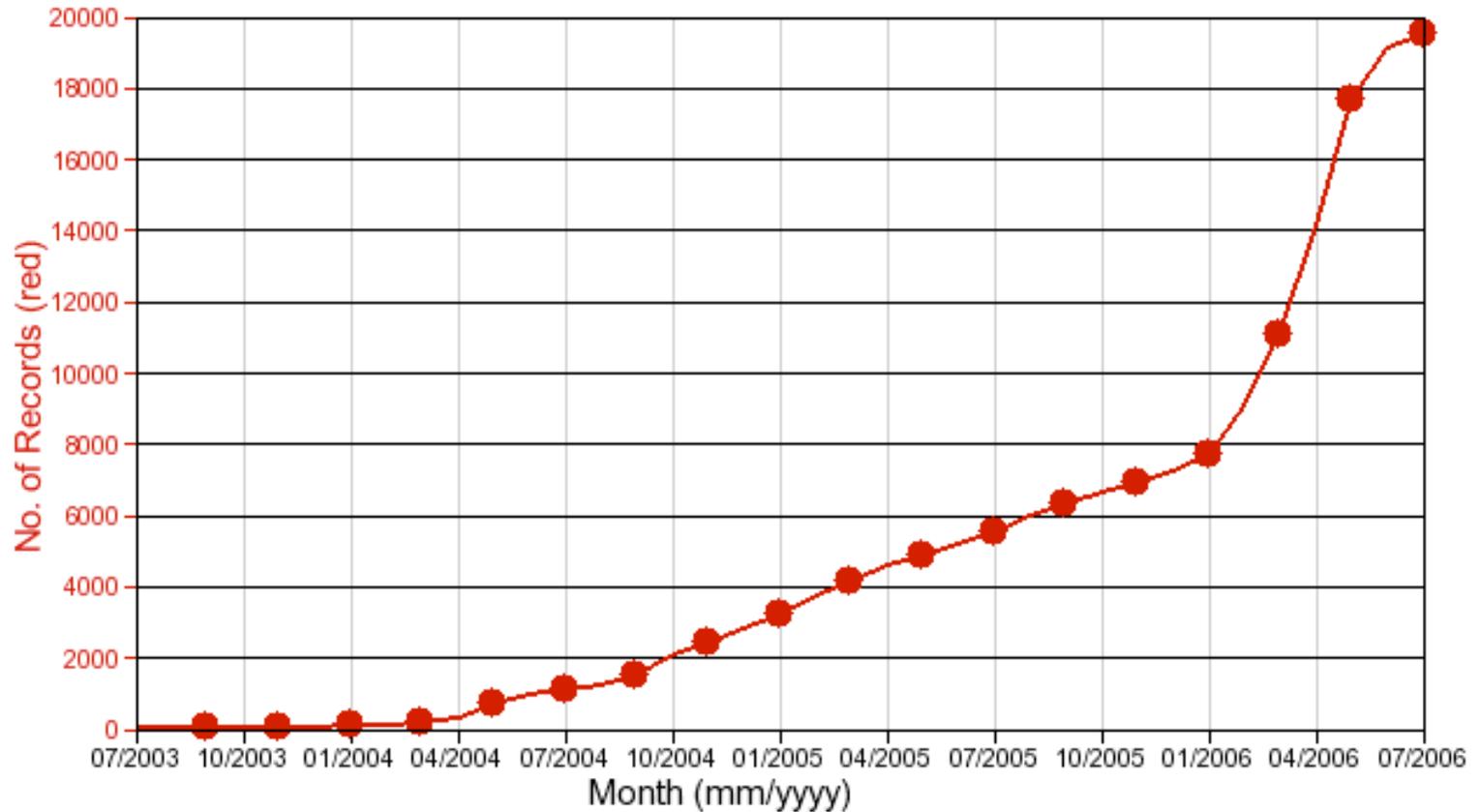
- ▶ 1.6 FTE core staffing (1 as team manager and trainer)
- ▶ Currently 4.6 FTE additional temporary staffing and equivalent of 1.8 FTE seconded from library activity (4 staff)
- ▶ Staffing has some fluidity – training investment and QA risk
- ▶ Checking accuracy of metadata, verifying publication, adding subject headings (Library of Congress) and adding DOIs and other appropriate full text links
- ▶ Tight timescale: 150 - 200 records a day



Institutional Success

University of Southampton: e-Prints Soton

Generated by <http://archives.eprints.org/>





Institutional what next?

- ▶ Build on the RAE experience to lay grounding for ongoing research reporting
 - ▶ not just a one off experience for IRs
- ▶ Explore links to metrics
 - ▶ part of a much bigger OA picture of looking at access, downloads and impact on citations
- ▶ RAE a good driver to make progress across the disciplines
 - ▶ encourage take up in the Arts and Humanities
 - ▶ possible enhancement and promotion of interdisciplinary research
 - ▶ Disadvantage: Full text rate = 10%
- ▶ Work on broader offer to researchers e.g. personal pages, links to bibliographic software, CVs etc.
- ▶ Look at preservation issues but not as a barrier to access