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JISC DEVELOPMENT PROGRAMMES

Project : COMPLETION REPORT

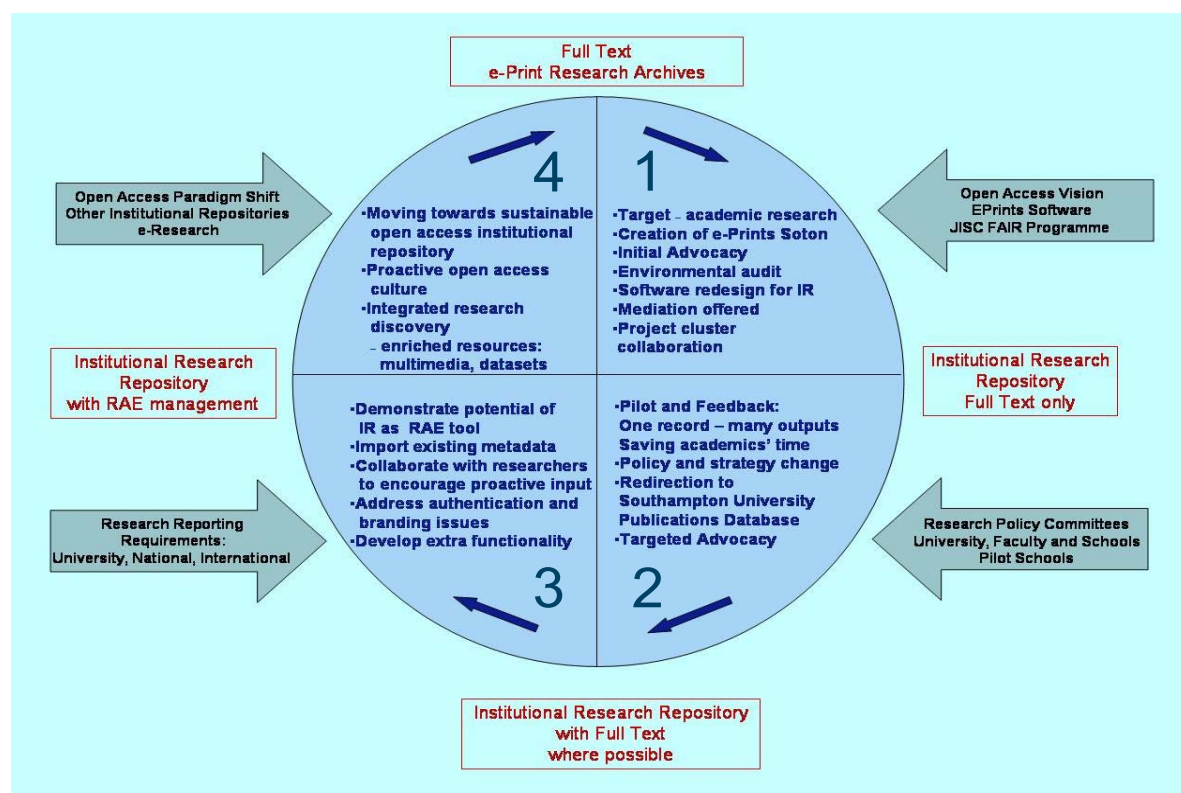| Project Acronym	TARDis	Project ID	
Project Title	Targeting Academic Research for Deposit and Disclosure		
Start Date	Aug 2002	End Date	Jan (Mar) 2005
Lead Institution	University of Southampton		
Project Director	Dr Mark Brown		
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Partner Institutions	-		
Project Web URL	http://tardis.eprints.org		
Programme Name (and number)	FAIR		
Programme Manager	Chris Awre, Balviar Notay, Neil Jacobs		

Document

Document Title	**Completion Report**	
Reporting Period	*n/a*	
Author(s) & project role	Pauline Simpson, Project Manager	
Date	21 Jun 2005	Filename
URL		
Access	☐ Project and JISC internal	X☐ General dissemination

Document History

Version	Date	Comments
v.1	21 Jun 2005	
V1.1	05 Jul 2005	Comments from JISC

Project Overview

Figure content:

Full Text e-Print Research Archives (top)

Open Access Paradigm Shift / Other Institutional Repositories / e-Research (left arrow)

Open Access Vision / EPrints Software / JISC FAIR Programme (right arrow)

Institutional Research Repository with RAE management (left)

Institutional Research Repository Full Text only (right)

Research Reporting Requirements: University, National, International (left arrow)

Research Policy Committees University, Faculty and Schools Pilot Schools (right arrow)

Institutional Research Repository with Full Text where possible (bottom)

4 (quadrant)
- Moving towards sustainable open access institutional repository
- Proactive open access culture
- Integrated research discovery
  – enriched resources: multimedia, datasets

1 (quadrant)
- Target – academic research
- Creation of e-Prints Soton
- Initial Advocacy
- Environmental audit
- Software redesign for IR
- Mediation offered
- Project cluster collaboration

3 (quadrant)
- Demonstrate potential of IR as RAE tool
- Import existing metadata
- Collaborate with researchers to encourage proactive input
- Address authentication and branding issues
- Develop extra functionality

2 (quadrant)
- Pilot and Feedback: One record – many outputs Saving academics' time
- Policy and strategy change
- Redirection to Southampton University Publications Database
- Targeted Advocacy

1. Background

Before the FAIR Programme, the University of Southampton was already a player in the Open Access Movement: Stevan Harnad from Southampton had made his 'subversive proposal' in 1994]; the University of Southampton was the developer of the major EPrint software and Southampton Oceanography Centre was an early adopter.

Apart from arXiv (the high energy physics repository now hosted at Cornell University), discipline based repositories had achieved only a cautious success. It was not until the information community took up the cause (fuelled by the scholarly communication crisis and the timely availability of project funding) that real movement toward open access publishing and repositories started to emerge.

Early adopters were already acknowledging the barriers to Institutional Repositories success, and the FAIR Programme offered the opportunity for TARDis to specifically address the technological, cultural and organisational barriers and at the same time work with the software developers to customise EPrints software.

TARDis (Targeting Academic Research for Deposit and Disclosure) http://tardis.eprints.org/ was one of a cluster of complementary projects funded by the UK's Joint Information Systems Committee as part of the Focus on Access to Institutional Resources Programme (FAIR). In 2002, Institutional repositories were being recognized as an important strategic development around the world.

TARDis has built a sustainable multidisciplinary institutional research repository – the University of Southampton Research Repository (called, in short, e-Prints Soton http://eprints.soton.ac.uk - to leverage the research created within Southampton University, by offering both author self-archiving and assisted deposit.   It has developed close working with individual schools and groups building on from their current practices. The repository contains publication records with full text where possible. Whilst starting out with the intention of including only full text, internal and external drivers, steered the project to becoming an Research Assessment Exercise (RAE) tool where publication metadata took priority. In responding to a stated University need, the project has achieved central University funding and it is expected that the rapidly changing open access movement is likely to take the project (the repository) back to its original aim of open access to all the full text of Southampton research.

While developing the repository or archive, TARDIS specifically fed back into the pioneering EPrints software (http://software.eprints.org/) developed within the Intelligence, Agents, Multimedia Group in the University of Southampton. The TARDis work resulted in a new version of the EPrint software intended to provide ease of use by repository administrators and end users, and is continuing to work closely with the developers. A long list of both user and admin functionality requirements including branding for individual schools interfaces, authority lists, authentication etc was submitted to an early discussion meeting *Putting Eprints software into the User Community, SOAS London, 23rd June 2004*. Post TARDis we will continue close collaboration by feeding University of Southampton IR improved functionality developments into the Community EPrints Project which is undertaking the implementation of a supporting mechanism for the maintenance of the open source software.   Strategies and documentation have addressed technological, cultural and organizational issues and the development of the e-Print repository concept for use in wider applications.

Consideration was given to including all types of research output in a variety of formats. This was based firmly on the experience of building pilot repositories for both the School of Ocean and Earth Sciences and in the School of Electronics and Computer Science whose own publications database will be incorporated into e-Prints Soton.

The technical and management issues relating to electronic authentication were also addressed in a related JISC funded project led by the Information Support Services (ISS) at the University of Southampton and the Southampton Research Repository was used as the test bed.

The TARDis Project has set up a successful multidisciplinary institutional repository offering one exemplar with policy rationale that has gained University support.   The repository profile of Southampton University research is now building to support the open access movement but at the same time is providing an essential research reporting tool.

Our aim was to implement a sustainable University of Southampton Institutional Research Repository containing full text of research output. Whilst our aim has remained, the route to achieving the goal was redesigned to take account of the drivers encountered during the project. The RAE is an overwhelming concern of every UK university and our strategy of linking the RAE exercise to the IR has had a successful outcome. We envisage that the open access movement itself with funding agencies' supportive actions and the move to build the 'scholarly knowledge cycle' will bring us full circle to our original goal.

2. Aims and Objectives

The project had the following five key objectives:

- To assess the key barriers impeding support for the creation of institutional archives for a representative set of subjects across at least four disciplines and to develop an integrated technical and academic strategy to overcome them.
- To develop the current version of the Eprints software as a medium for both for facilitated and self-archiving in the context of a multidisciplinary institutional archive.
- To win commitment from the target academic groups to contributing to a multidisciplinary institutional archive and effect a change in the perception of the value of such archives to the research mission of the University.
- To develop a model for standardised metadata which will facilitate both mediated and self-archiving and promote the integration of e-Print archives into other information resources.
- To explore the value of partnerships based on shared knowledge and skill between data providers, technical developers and professional support staff which will facilitate change.

Overall, the TARDis Project met its objectives and offers a significant exemplar of an Institutional Repository. We undertook to have 2000 full text documents in the repository by the end of the project and have deposited just under that number (the addition of ECS full text would take us well over), though we do have more than 5000 records. However, the culture of using the IR for recording research output is becoming embedded within the researchers publication workflow and it will be a short step to achieving full text when funding agencies mandate deposit.

3. Overall Approach

Our project plan v.1.3 remained our framework throughout, but additional work made inroads into our scheduling. Importing existing data, validation and quality control (not originally identified in the project plan) has been time consuming for the team. The beginning of the project included a review of the software and this plus the re-design took much longer than anticipated. However, the outcome was very worthwhile and was incorporated into the e-Prints Sotware. Additional work on the RAE management functionality has borne the fruit of a University centrally funded service. Effort is expended on working with Schools to import or encourage self recording of data, taking the approach that whilst keying in their record the software invites researchers to deposit full text during the process and will eventually become part of their publication workflow.
Working closely with the schools has given a tremendous amount of feedback, particularly about the software and system. Care has had to be taken not to make 'knee jerk' reactions to individual school's suggestions but still to be seen as responsive to feedback. In this area the project could have benefited from additional technical support and a re run would identify a need for a full time technical development member.

4. Project Outputs
All project major outputs except the final deliverable has been submitted to JISC. The final deliverable will take the form of a case study of the TARDis Project. This will cover the complete experience of the TARDis Project and provide insight into the policies, decisions and workflows with some cautionary talesalong the way. It will address how TARDis implemented e-Prints Soton

within a large multidisciplinary university.   It is intended to sit alongside other FAIR Project studies to inform best practices for those planning and implementing their own Institutional Repositories, not only in the HE Community.

As part of its final contribution the project co-hosted with GNU EPrints "Open Access Institutional Repositories (OA IRs): Leadership, Direction and Launch", University of Southampton. 25th and 26th January, 2005, which was very well attended http://www.eprints.org/jan2005/programme.html.

5. Project Outcomes

Main achievements:

- Implementation of University of Southampton Research Repository

- Environmental assessment of different mechanisms for researchers cultural use of web and other methodology for disseminating research – survey

- Contributed good information management practices to the re-design of GNU EPrints software used worldwide

- Interface design and workflow methodology for mediated deposit

- Contribute to the design of RAE functionality

- Embedded IR in research reporting mechanism

- Intense advocacy and close, flexible working with Schools identified by the University as a model.

- Achieved University funding for sustainability of institutional repository managed by University Library

- Acquisition of over 5000 records and just under 2000 full text by end of project

- University policy change on acceptance of theses electronically. IR is now official digital repository for University of Southampton Theses

Key findings and lessons learned

- Make the IR a service not a project from the beginning
- IRs need dedicated technical support to respond immediately to user needs
- Overt researcher mediated support is required and opens opportunities for researcher/librarian dialogue
- The huge amount of advocacy required must be targeted to all levels within a large organization to progress an IR
- Metadata quality control is very labour intensive and a balance needs to be agreed
- Researchers want to create a citation record only once and use it for many purposes

o   Saving them time rather more important to them than visibility

Unexpected outcomes or opportunities:

- University policy changed to accept Theses in electronic format
- IR provides School Liaison librarians opportunities to penetrate deep into Schools
- Extension of IR to other applications – both external and internal visibility
- Population of Publication data to university business systems eg. Project Management software
- Linking IR material to VLE

The research, learning and teaching communities, are realising that the IR is an ideal digital store and an opportunity to make much valuable material available and re-usable. MSc Dissertations, legacy collections and previously hidden grey literature are being scanned and made available. The TARDis Project, initially excluded Learning Objects, because we felt research output was demanding enough, but always thought eventually the IR would be used for learning objects as well.   Southampton is at present in the early stages of discussion between communities within the university concerning learning objects.   Southampton is a partner in a JISC project 'e-Languages' and already there are individual discussions with schools on storage of their own learning objects eg School of Nursing and Midwifery and the University Library for information skills objects. We believe the Institutional Repository is the logical storage destination (although work is needed on metadata schema).

6. Stakeholders

Papers and presentations and dialogue with the following:

1. University Management
2. University Committees
3. Heads of Schools
4. Faculty Forums
5. University Research Support Office
6. University Legal Affairs Office
7. Research Managers
8. School Managers
9. Individual researchers/ Academics
10. University Library
11. School Liaison Librarians
12. University ISS
13. TARDis Steering Group
14. FAIR Projects
15. eFAIR Cluster
16. Open Access Community
17. Conferences
18. Research Councils
19. UK Parliament HC Select Committee on S & T

The main beneficiaries are :

- The University in gaining an integrated record of its' research publication outputs tailored for the RAE submission
- UK Universities will be presented with an RAE Management tool
- Researchers, presented with an organized system to manage their publications
- Learning and Teaching Community for re-use of text and exploitation for learning objects
- Data Community provided with facilitation for text linking
- University Library positioned within the research landscape
- Society in gaining access to Southampton research

See Appendix A for summary of project achievements

10. Intellectual Property Rights

All project defined outputs are available to the teaching, learning and research communities.

Project Resources

11. Project Partners

TARDis was a single institution project with no external project partners, but was an example of good working between internal departments of the University: University Library, Information Systems Services, School of Electronic and Computer Science and academics.
We acknowledge the help and shared experiences of those involved in other FAIR Projects (eFAIR Cluster) particularly, University of Glasgow, University of Edinburgh, University of Nottingham and Robert Gordon University. Dialogue with members of the emerging international community of Institutional Repositories broadened and stimulated our progress.

12. Project Management

The Project Team consisted of 2.18 FTE: Pauline Simpson Project Manager (.25); Jessie Hey, Research Fellow (1.0), Natasha Lucas, Administrative Support (.6) and Chris Gutteridge/Tim Brody, System Support (.33). Each team member had areas of responsibility, but in a small team the lines tended to get blurred. Because of this the Project Manager spent much more than .25 of her time. Apart from technical support the team was based together at the National Oceanography Centre which encouraged close working and dialogue. This close sharing in the project will now benefit the continuing Service – all the team remain involved in the central service and will oversee the transition to the university library managed repository. The PM and RF will continue working on IR related projects. It is clear that a large multidisciplinary institution requires a great deal of advocacy and the PM and RF spent much time in working with schools. In hindsight it would have been good to have had more project members to spread that load and in fact this has now been done with liaison librarians. A project with a large software component would benefit from dedicated technical support. Most importantly the repository was not labelled a 'project'.

13. Programme Support

The FAIR programme started with the support of a dedicated programme manager who was proactive in maintaining communication with the cluster and identifying useful conferences and training events to attend. His departure left the programme with good temporary support but some gaps inevitably occurred.

The JISC eFAIR Cluster was an excellent sharing mechanism and all members appreciated JISC acceptance of an additional proposal for funding from the TARDis and Daedalus PMs to support cluster meetings twice a year.

14. Budget

The budget is shown in Appendix B. A small underspend is shown, but it is expected that this amount will be used for post project dissemination. Team members will contribute presentations on the TARDis Experience throughout 2005 (and beyond).

Detailed Project Planning

16. Evaluation Plan

Now that e-Prints Soton has become an RAE Management tool more schools are using the product so the interface and functionality is constantly subjected to evaluation and QA. . HCI Consultancy using Focus Groups to evaluate interface/software is ongoing. This requires having the immediate technical support to respond to this.

Deliverables

The e-Prints Soton product is constantly evaluated as a user friendly interface and easy deposit process both by project team and depositors. Project Deliverables were reviewed by the Project Steering Group before submission.

Metadata

The metadata in e-Prints Soton is validated at a number of levels; by the depositor, by the admin support, and then by the School Liaison Librarians. We have put on-screen help to guide depositors in quality metadata provision.   Additionally imported data goes through a fairly rigorous QA because of the peculiarities of mapping! e-Journal linking and enhanced diagrams deposit provides value added elements.

Document files

Deposited files are checked for legibility for linking etc and converted if in Word format, with the Word file deposited with administrator access only. Where allowed some digitization has been carried out to provide the best image of the document. We expect to be challenged with more esoteric file formats (3D imagery, sound files etc).

Project Evaluation

Regular Project Steering Group meetings provided continuous evaluation which was then built upon by FAIR Programme Managers evaluation visits plus a Project Review meeting which included our external reviewers Dr D. Rusch-Feja and Prof C. McKnight. A final hosted conference

"Open Access Institutional Repositories (OA IRs): Leadership, Direction and Launch", University of Southampton. 25- 26 January, 2005, http://www.eprints.org/jan2005/programme.html, exposed the final project outcomes to the IR Community which became labelled as the Southampton/TARDis Keystroke Policy. Transition from project to funded service is the final accolade.

17. Quality Assurance Plan

The GNU EPrint software developers maintain their own procedures We have a responsibility to make information easily available to disabled students (SENDA) and endeavour to ensure that the service conforms to the W3C Web Content Accessibility Guidelines 1.0. Whilst this will not always be possible, for example in the case of files only available in a non- conforming format, we implement best practice wherever possible. E-Prints Soton is OAI-PMH v.2 compliant.

18. Dissemination Plan

Papers, Articles and Posters

- Simpson, P. (2005) TARDis Project Final Report. Southampton UK, University of Southampton, University Library, 14pp.
  http://eprints.soton.ac.uk/16122/

- Hey, J.M.N., Simpson, P. and Carr, L.A. (2005) The TARDis Route Map to Open Access: developing an Institutional Repository Model. In, ELPUB 2005 : Proceedings of the 9th ICCC International Conference on Electronics Publishing, Leuven, Jun 2005, (eds. Dobreva, M. and Engelen, J.), Leuven, Belgium : Peeters Publishing, 179-182. [pdf]
-
- Simpson, Pauline and Hey, Jessie (2005) **Forward in time: TARDis and the RAE.** JISC Inform, No. 8, p.16.
  http://eprints.soton.ac.uk/14522/
-
- Hey, Jessie M.N. (2004) **Targeting Academic Research: Southampton's Institutional Repository**. In, Lewis, Jonathan (ed.) Proceedings of Online Information 2004, 30 Nov-2 Dec 2004, Learned Information Europe Ltd, 127-136. http://eprints.soton.ac.uk/13598/

- Hey, Jessie M.N. and Simpson, Pauline (2004) **Building an Institutional Research Repository Based on User Requirements - a University of Southampton Case Study** poster presented at Institutional Repositories: the Next Stage, Washington, DC, USA, 18-19 Nov 2004 http://eprints.soton.ac.uk/12662/

- Hey, Jessie (2004) **ECDL 2004**: **A Digital Librarian's report**, Ariadne Issue 41, Oct 2004 http://eprints.soton.ac.uk/13597/

- Hey, Jessie M.N., Simpson, Pauline, Brody, Tim and Carr, Leslie (2004) **The Institutional Repository route to Open Access: implications for its evolution** poster presented at ECDL (European Digital Library Conference) 2004, 12-17 September 2004, Bath, UK, http://eprints.soton.ac.uk/9055/

- Hey, Jessie, Simpson, Pauline and Carr, Leslie (2004) **An Institutional Repository Model for the Humanities**, poster presented at the Digital Resources for the Humanities (DRH, 2004), 6-8 September, 2004, Newcastle, UK, http://eprints.soton.ac.uk/9054/

- Simpson, Pauline and Hey, Jessie M.N. (2004) **Institutional E-Print Repositories For Research Visibility** [PDF] in Encyclopedia of Library and Information Science, Second Edition, Revised and Expanded, Dekker, 15pp http://www.dekker.com/servlet/product/productid/E-ELIS

- Hey, Jessie (2004) **Targeting Academic Research with Southampton's Institutional Repository**, Ariadne, Issue 40, July-2004 http://www.ariadne.ac.uk/issue40/hey/

- Hey, Jessie M.N. and Simpson, Pauline (2004) **Enhancing Research Collaboration with e-publications**: poster [PowerPoint] NERC Technology Forum, 12-13 July 2004, Southampton Oceanography Centre.

- Simpson, Pauline and Hey, Jessie M.N. (2004) **Back to the Future with TARDis**: poster [PowerPoint], JISC Joint Programmes Meeting, Brighton, 6-7 July, 2004.

- Hey, Jessie M.N. and Simpson, Pauline (2004) **Opening access to research with TARDis at Southampton University**. ASSIGNation, 21 (3), pp. 19-22. http://eprints.soton.ac.uk/archive/00005007/

- Hey, Jessie M.N. (2004) **An environmental assessment of research publication activity and related factors impacting the development of an Institutional e-Print Repository at the University of Southampton**. Southampton, UK, University of Southampton, 19pp. (TARDis Project Deliverable, D 3.1.2) http://eprints.soton.ac.uk/archive/00006218/

- Barton, Jane, Currier, Sarah and Hey, Jessie M.N. (2003) **Building Quality Assurance into Metadata Creation: an Analysis based on the Learning Objects and e-Prints Communities of Practice**. In Proceedings DC-2003 (2003 Dublin Core Conference) Supporting Communities of Discourse and Practice - Metadata Research and Applications, 28th Sept - 2nd Oct, Seattle, Washington, USA [Abstract] http://www.siderean.com/dc2003/201_paper60.pdf

- Gutteridge, C.J., Hitchcock, S., Simpson, P. and Hey, J. (2003) **Report on the technical issues of using GNU EPrints Software for the development of an institutional e-Print repository at the University of Southampton**. Southampton, UK, University of Southampton, 13pp. (TARDis Project Deliverable D 2.3.2) http://eprints.soton.ac.uk/archive/00000184/

- Nixon, William J. and Hey, Jessie (2003) **Intellectual Property Rights (IPR) Workshop**, London - May 2003 (report on the JISC workshop held in London on 29th May) *Ariadne,* Issue 36, Jul 2003 http://www.ariadne.ac.uk/issue36/iprws-rpt/

- Simpson, P. (2003) **e-Prints at Southampton**. *IAMSLIC Newsletter,* No. 86, Feb 2003.

- Nixon, W.J. and Simpson, P. (2003) **2nd Workshop on the Open Archives Initiative (OAI)**: (report on the OAI Workshop at CERN, Geneva, Switzerland, 17-19 October 2002) *Ariadne*, No. 34, 14-Jan-2003 http://www.ariadne.ac.uk/issue34/geneva/intro.html

- GNU EPrints 2 Overview (2002) given by Chris Gutteridge at 11th Pan Hellenic Conference of Academic Libraries, Academic Libraries of Open and Continuous Access 6 - 8/11/2002, T.E.I. of Larissa, Greece

Presentations

External

- **Developing open access with institutional repositories in the UK**, presented by Jessie Hey at Conference on Open Access to Knowledge, Braga, Portugal, 12-13 May 2005. Braga, Portugal, University of Minho. http://eprints.soton.ac.uk/16195/

- **TARDis : Targeting Academic Research for Deposit and Disclosure at the University of Southampton,** presented by Pauline Simpson at, Towards a Digital Research Archive for Oxford University, 10 Jun 2005, Oxford Internet Institute [Powerpoint]

- **Open Access : Publishing and Repositories - making research more visible, presented by Pauline Simpson at EURASLIC 11:**
  In, Open Waters - Open Sources, 11th Biennial Conference of the European Association of Aquatic Sciences Libraries and Information Centres, 4-6th May 2005, Split, Croatia [Powerpoint]

- **Creating a Multidisciplinary Institutional Repository Using EPrints Software**, presented by Jessie Hey and Leslie Carr at the JISC conference, Birmingham, 12 April, 2005 [Powerpoint]

- **Institutional Repositories : how to make your research more visible,** presented by Pauline Simpson to Oxford Brookes University, 9 March 2005 [Powerpoint]

- **Developing an Institutional Repository at the University of Southampton**, presented by Pauline Simpson and Jessie Hey to University of Warwick, 4 March 2005 [PowerPoint].

- **How to make your research more visible: repositories and the Open Archive Initiative,** presented by Pauline Simpson in, Vlaams Instituut voor de Zee VLIZ Young Scientists Day, Brugge, Belgium, 25 Feb 2005 [Powerpoint]

- **Gaining Content for IRs,** presented by Pauline Simpson in, ODINPubAfrica Training Workshop, Limburgs Universitair Centrum, Diepenbeek, Belgium, 23-24 Feb 2005 [Powerpoint]

- **Copyright issues for Institutional Repositories,** presented by Pauline Simpson in, ODINPubAfrica Training Workshop, Limburgs Universitair Centrum, Diepenbeek, Belgium, 23-24 Feb 2005 [Powerpoint]

- **Developing an Institutional Repository at the University of Southampton - TARDis experience,** by Pauline Simpson and Jessie Hey in Open Access Institutional Repositories : leadership, direction and launch, University of Southampton, 25-26 Jan 2005 [PowerPoint] http://www.eprints.org/jan2005/

- **Policy Development for TARDis at the University of Southampton: Policy meets Practice in Building a Sustainable Institutional Repository for Research** presented by Jessie Hey in, LEarning About Digital Institutional Repositories (LEADIRS) Seminars, London, UK, 1-2 Nov and 6-7 Dec 2004. Cambridge-MIT Institute (CMI). http://eprints.soton.ac.uk/13600/

- **Institutional Repositories: Laying Foundations for a New Era of Scholarly Communication: a Practical View from the Southampton University Research Repository http://eprints.soton.ac.uk** presented by Jessie Hey in, Online Information 2004,

London, UK, 30 Nov-2 Dec 2004. Learned Information Europe Ltd
http://eprints.soton.ac.uk/13599/

- **The Culture, Care and Content of Institutional Repositories** presented by Pauline Simpson in "Preserving our Institutional Intellectual Property" Panel Discussion at IAMSLIC 2004: Voyages of Discovery, parting the seas of information technology, Hobart, Tasmania, 6-9 September 2004 [Powerpoint]

- **Practical issues in creating an institutional repository** presented by Jessie Hey in Seminar on New Developments in Scholarly Publishing [PowerPoint] at London South Bank University, UK, 29 June 2004

- **Implementing an Institutional Repository: management, organizational and cultural Issues** [PowerPoint] presented by Pauline Simpson and Jessie Hey at the University of Bergen Visit meeting on 25 March 2004

- **Implementing an Institutional Repository: management and organizational Issues** [Powerpoint] presented by Jessie Hey at JISC Conference 2004, International Convention Centre, Birmingham, Session theme: Widening access to institutional assets: what are the practical implications? on 23 Mar 2004. See a photo from the conference.

- **Implementing an Institutional Repository: management, organizational and cultural Issues** [PowerPoint] presented by Pauline Simpson at e-Prints UK Workshop, Ashmolean Museum Oxford on 22 Mar 2004

- **Metadata Issues for e-Prints: experiences from setting up an Institutional Repository** [PowerPoint] presented by Jessie Hey at ePrints UK Workshop, Ashmolean Museum Oxford, on 22 March 2004

- **Institutional Repositories :an opportunity for IAMSLIC** [Powerpoint] presented by Pauline Simpson on 8 October 2003, at Navigating the Shoals: Evolving User Services in Aquatic and Marine Science Libraries, 29th Annual IAMSLIC Conference, October 5 - 9, 2003, Mystic, Connecticut USA. [Summary]

- **Academic Scholarship and the Deep (or Invisible) Web** [Powerpoint] presented by Jessie Hey in SIMS Information Access Seminar Series, University of California, Berkeley, 3 October 2003

- **Building Quality Assurance into Metadata Creation: an Analysis based on the Learning Objects and e-Prints Communities of Practice** [Powerpoint] presented by Jessie Hey and Sarah Currier on 29 Sept at DC-2003 (2003 Dublin Core Conference) Supporting Communities of Discourse and Practice - Metadata Research and Applications, 28th Sept - 2nd Oct, Seattle, Washington, USA

- **Scholarly Communication and OAI** [Powerpoint] presented by Pauline Simpson at Chalmers Institute of Technology, Gothenburg, Sweden, on 24 Sept 2003.

- **Combining Cultures to Create Open Institutional e-Print Archives** Joint workshop presented by Jessie Hey [Powerpoint], Christopher Gutteridge (interspersing short presentations: **A busy person's introduction to OAI-PMH** [Powerpoint] and **What is GNU Eprints 2?** [Powerpoint] and followed by Kurt De Belder (Chief, Division of Electronic Services, University of Amsterdam Library) **Open Archives: context and initiatives in the Netherlands** [Powerpoint] at Making Connections: Connecting People, Connecting Technology ALT/SURF joint one day conference Amsterdam 10 April 2003

- **Open Archives in the Evolving Information Space - Libraries and the Global Perspective** [Abstract][Powerpoint 7.8 Mb]

Presented by Jessie Hey at the <u>12th National Conference of University Libraries</u> and Symposium of University Library Directors of Latin America and the Carribean - The (R)evolution of Knowledge and Information, Oct 21-25, 2003, Recife, Brazil

- **Overview of the Eprints.org System**
  Presented by Chris Gutteridge at the <u>2nd Workshop on the Open Archives Initiative (OAI): Gaining Independence with ePrints Archives and OAI</u> Oct 17-19 CERN, Geneva. Powerpoint and video available from agenda 19 Oct 2002.

- **E-Prints and the Open Archive Initiative - Opportunities for Libraries** <u>[Powerpoint]</u> <u>[Paper]</u>
  Presented by Pauline Simpson at IAMSLIC 2002 Bridging the Digital Divide Oct 6-11, 2002, Mazatlan, Sinaloa, Mexico

  + more than 20 internal University presentations to a whole range of disciplines and levels, eg, University Management to individual researcher

19. Exit Plan

All project outputs will be permanently available through e-Prints Soton (University of Southampton Research Repository)

There is one outstanding Project deliverable which will be a Case Study of the TARDis Experience. Submission of this final deliverable is expected end of July 2005.

The TARDis Project website will be available for at least 3 years after the end of the project and discussions with JISC will identify archiving procedure.
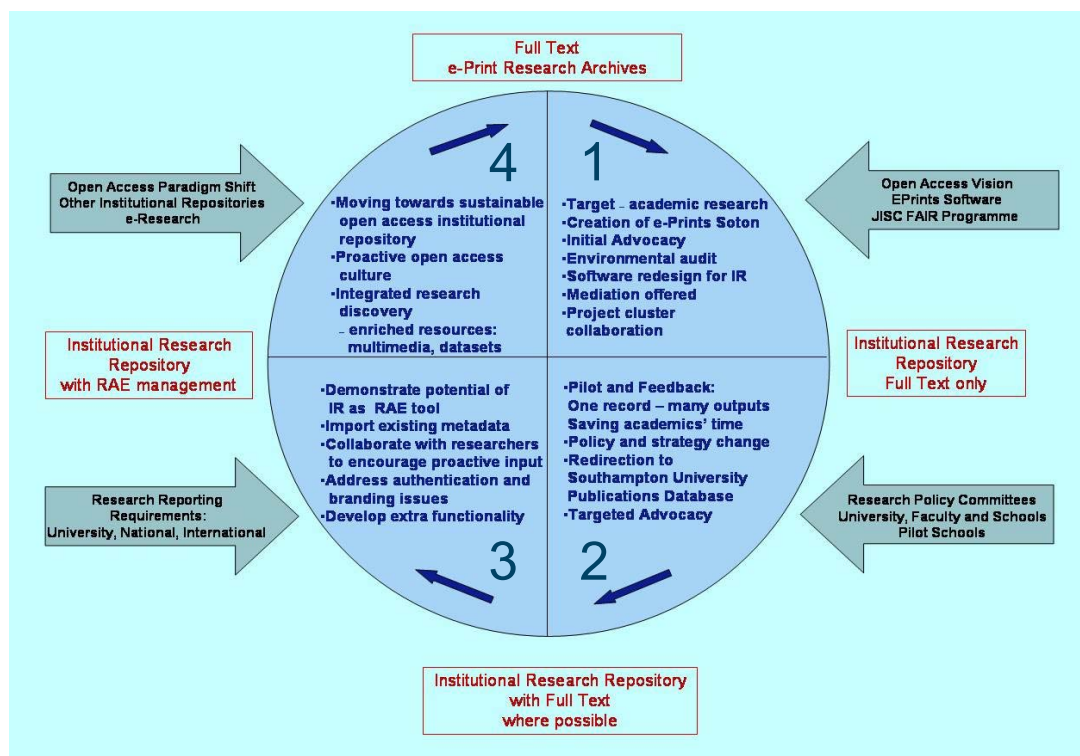
20. Sustainability Plan

The University of Southampton has centrally funded the continuation of e-Prints Soton which is now part of the university research landscape.

Preservation and the linking of data and text have been issues that have arisen during TARDis. The University of Southampton is a partner in JISC projects which are investigating both these topics.

Appendixes

Appendix A. Summary of Project Achievements

Fig. 1.   TARDis RouteMap : a useful model

Executive Summary

TARDis (Targeting Academic Research for Deposit and Disclosure) http://tardis.eprints.org/ was one of a cluster of complementary projects funded by the UK's Joint Information Systems Committee as part of the Focus on Access to Institutional Resources Programme. In 2002, Institutional repositories were being recognized as an important strategic development around the world .

TARDis has built a sustainable multidisciplinary institutional research repository – the University of Southampton Research Repository (called, in short, e-Prints Soton http://eprints.soton.ac.uk - to leverage the research created within Southampton University, by offering both author self-archiving and assisted deposit.   It has developed close working with individual schools and groups building on from their current practices. The repository contains publication records with full text where possible. Whilst starting out with the intention of including only full text, internal and external drivers, steered the project to becoming an Research Assessment Exercise (RAE) tool where publication data took priority. In responding to a stated University need, the project has achieved central University funding and it is expected that the rapidly changing open access movement is likely to take the project (the repository) back to its original aim of open access to all the full text of Southampton research.

While developing the repository or archive, TARDIS specifically fed back into the pioneering EPrints software (http://software.eprints.org/) developed within the Intelligence, Agents, Multimedia Group in the University of Southampton. The TARDis work resulted in a new version of the EPrint software intended to provide ease of use by repository administrators and end users, and is continuing to work closely with the developers. A long list of both user and admin functionality requirements including branding for individual schools interfaces, authentication and authority lists etc was submitted to an early discussion meeting *Putting Eprints software into the User Community, SOAS London, 23rd June 2004*.   Post TARDis we will continue close collaboration by feeding University of Southampton IR improved functionality developments into the Community EPrints Project which is undertaking the implementation of a supporting mechanism for the maintenance of the open

source software. Strategies and documentation have addressed technological, cultural and organizational issues and the development of the e-Print repository concept for use in wider applications.

Consideration was given to including all types of research output in a variety of formats. This was based firmly on the experience of building pilot repositories for both the School of Ocean and Earth Sciences and in the School of Electronics and Computer Science whose own publications database will be incorporated into e-Prints Soton.

The technical and management issues relating to electronic authentication were also addressed in a related JISC funded project led by the Information Support Services (ISS) at the University of Southampton and the Southampton Research Repository was used as the test bed.

The TARDis Project has set up a successful multidisciplinary institutional repository offering one exemplar with policy rationale that has gained University support. The repository profile of Southampton University research is now building to support the open access movement but at the same time is providing an essential research reporting tool.

Appendix B. Final Budget

Indicate Reporting Period	YR 1	YR2	YR3	Total
30 Month funding from JISC spread over 32 months	*Aug 02 – Jul 03*	*Aug 03 – Jul 04*	*Aug 04 – 31 Mar 05*	
Staff *(list all staff with FTEs and salary scale range)*				
Pauline Simpson .25 ACR2	10,223.75	10,660.20	7,461.17	28,345.11
Jessie Hey 1.00 ACRF 13 (.5 from Feb 05)	25,230.47	34,416.26	21,299.15	80,945.88
Tim Brody .33 ACRA 9	0	0	23,822.00	23,822.00
Natasha Lucas .62 CLE3	11,674.29	10,851.24	8,336.28	30,861.81
S Montfalcon .5 (Feb-Mar 05)	0	0	2,602.02	2,602.02
M Fitzgerald .5 (Feb - Mar 05)	0	0	2,843.02	2,843.02
Travel & Subsistence	209.48	2,103.26	2,317.30	4,630.04
Equipment *(items over £10k)*	0	0	0	0
Dissemination activities	487.03	1,548.05	4,367.25	6,402.33
Evaluation activities		2,100.00	10,000.00	12,100.00
Expenditure against budget				**£192,552.21**
Underspend ****				-3,368.79
Total from JISC				**£195,921.00**

**** to cover Dissemination activities until Dec 2005. See Appendix D

Appendix C

PRESS RELEASE   December 2004

University of Southampton to provide free access to academic research online

The University of Southampton is to make all its academic and scientific research output freely available.

A decision by the University to provide core funding for its Institutional Repository establishes it as a central part of its research infrastructure, marking a new era for Open Access to academic research in the UK.

Until now, the databases used by universities to collect and disseminate their research output have been funded on an experimental basis by JISC (the Joint Information Systems Committee). The University of Southampton is the first in the UK to announce that it is transitioning its repository from the status of an experiment to an integral part of the research infrastructure of the institution.

'This decision by the University marks a real milestone in the Open Access initiative,' says Dr Leslie Carr. 'At Southampton we have a significant headstart since we created the EPrints software that is used by many UK universities, but we expect and indeed hope that others will soon give similar status to their own archives.' Dr Carr is Technical Director of the open source EPrints.org software, which is now used by around 150 repositories worldwide.

Southampton established its repository (www.eprints.soton.ac.uk) in 2002 as part of the JISC TARDis project (Targeting Academic Research for Deposit and Disclosure), to explore issues surrounding the Open Access paradigm. The repository provides a publications database with full text, multimedia and research data.

'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.

'The University has been committed to Open Access for many years. The fact that we are now supporting it with core funding is another tangible step towards its full achievement.'

The Southampton repository will now become a service of the University Library in partnership with the University's Information Systems Services and its School of Electronics and Computer Science (who host the JISC-funded software development team).

Acknowledging the success of the partnership between the Library, Information Systems Services and the Schools, the Librarian, Dr Mark Brown, said: 'Collaboration between services and academic groups has been the key element in the success of the project. The Institutional Repository will now become an integral part of the electronic library service at Southampton.'

Notes for Editors

1. For further information on E-prints, Open Access and the digital libraries project, see http://www.eprints.org, for further information on the Southampton repository, see http://eprints.soton.ac.uk
2. Professor Stevan Harnad, regarded by many as the founder of the Open Access movement, has been successfully leading the debate from the University's School of Electronics and Computer Science over a number of years, and has argued forcefully for its adoption by the academic community worldwide. The School of Electronics and Computer Science already has the most populated online institutional archive in the UK.
3. The University of Southampton is a leading UK teaching and research institution with a global reputation for leading-edge research and scholarship. The University has over 20,000 students and over 5000 staff. Its annual turnover is in the region of £270 million.

Useful web sites for journalists
www.experts.soton.ac.uk - an A-Z guide of University experts

TARDIS Completion Report - Budget

Appendix D

Underspend utilization:

The project has £3,368.79 underspend, largely due to the financial support offered to the project team from dissemination venues.   It is intended to use the underspend to continue dissemination of the TARDis experience. At present the following venues are arranged (budgetary amounts are included)

Venue	Budgetary T & S and registration
Oxford Internet Archive : Digital …	£50
ELPUB 2005 : 9th ICCC International Conference on Electronics Publishing, Leuven, Jun 2005,	£800
UMSLG Residential Meeting Edinburgh 7-8 July	£250
OAI4 CERN Geneva x 2	£1500
IAMSLIC 05 Rome	£800
	£3,400

The invitations to speak are from communities who want to hear about and learn from TARDis experiences. JISC FAIR Funding supported TARDis to a successful conclusion. In our presentations we offer TARDis as just one model and give publicity to the other projects within FAIR. As a successful JISC project it gives enormous encouragement to other organizations and maintains the profile of JISC within the UK and international communities.