Quality and Quantity: tackling real issues in an institutional research repository

CERN Workshop on Innovations in Scholarly Communication (OAI4)
20-22 October 2005

http://tardis.eprints.org

http://eprints.soton.ac.uk

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e-Prints Soton

Southampton University Research e-Prints

TARDis

JISC

Southampton University
Research e-Prints
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- Scaling up with the TARDis project
- The TARDis route map
- Balancing Quality
- Balancing Quantity
- Staying focused on the vision of Open Access meeting Institutional Repositories

University of Southampton – an established UK university

Research–led multidisciplinary university
20,000 students
5000 staff
3000 researchers

From esoteric knowledge to a real institutional research repository

Southampton University Research e-Prints
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From embarkation to escalation…..

11th anniversary of Stevan Harnad's 'Subversive Proposal' leading to the open access vision for scholarly material

- **See also Harnad, S. and Hey, J. M. N. (1995) Esoteric Knowledge: the Scholar and Scholarly Publishing on the Net. In *Proceedings of Networking and the Future of Libraries 2: Managing the Intellectual Record, Proceedings of an International Conference, Bath, 19-21 April 1995*, 110-16. Dempsey, L., Law, D. and Mowlat, I., Eds.**

- **The vocabulary has moved on but some journals are still becoming more and more expensive**

the work of researchers in our own institution is still often unavailable to us ……and we also get emails from across the world when we haven't yet got the full text…. but that's incentive to produce it

Requests this week for full text when we didn't have it

Request from Unit of Biomonitoring and Management, Department of Zoology, University of Madras for

- Tankere, S.P.C., Muller, F.L.L., Burton, J.D., Statham, P.J., Guieu, C. and Martin, J-M. (2001) Trace metal distributions in shelf waters of the northwestern Black Sea. *Continental Shelf Research*, 21 (13/14), 1501-1532. (doi:10.1016/S0278-4343(01)00013-9) http://eprints.soton.ac.uk/8011/

Request from Community Drug Problem Service, Edinburgh for:

- Webster, B. and Sullivan, C. (2003) Substance Misuse, Education that will make A Difference. Association of Nurses in Substance Misuse. In, *Annual Conference, Swansea, UK, 3 April, 2003*. http://eprints.soton.ac.uk/9397

- An opportunity to show visibility and encourage deposit!

Southampton influences

- Original EPrints software created at Southampton to enable the vision - now used by around 160 institutions worldwide – also spawned other software choices

- Some Southampton (Soton) departments have culture of deposit (but not all were OAI compliant and searchable together)

- Electronics and Computer Science use the software for the school publications database – now a repository with daily deposits (will be incorporated into e-Prints Soton)
- For now can use ePrints UK or OAIster to search both

- National Oceanography Centre was keen to adopt

An Institutional Research Repository for Southampton

- Institutional Repository for Research set up (e-Prints Soton) http://eprints.soton.ac.uk with TARDis project to investigate issues for a new concept (within JISC funded FAIR programme)

- Southampton University Research e-Prints - working closely with individual 'schools' – found that depends so much on publication culture and working practices

- TARDis project: Feeding back into EPrints software good citation and information management practice experimenting with best balance of assisted deposit

- has capacity for adding full text (e-Prints) if available
  - Electronic copies of any research output e.g. journal articles, book chapters, conference papers even multimedia

- TARDis: Targeting Academic Research for Deposit and Disclosure
- FAIR: Focus on Access to Institutional Resources

Exploring University practices and needs was crucial

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 Report, D 3.1.2)
http://eprints.soton.ac.uk/archive/00006218/

See also TARDis article in Ariadne:
Hey, Jessie M. N. (2004) Targeting Academic Research with Southampton's Institutional Repository. *Ariadne* (40)
http://eprints.soton.ac.uk/8986/

Putting this into action -

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 Electronic Publishing, Leuven, June 2005, (eds. Dobreva, M. and Engelen, J.), Leuven, Belgium: Peeters Publishing, 179-182
http://eprints.soton.ac.uk/16262/
http://elpub.scix.net/cgi-bin/works/Show?232elpub2005

Working with disciplines and cultures for full representation

- Began with initial knowledge of some areas of a large organisation

- Advocacy/solutions most effective when you know the background and tailor to suit

- Key ingredient - exploration of web sites and discussions/collaboration at all levels – top down and bottom up

Sampling of faculty websites – assessing current practice (2003)

Southampton University Research e-Prints
e-Prints Soton

| Department	Total number of publications listed on Web	Full text on Web	Percentage of Publications with full text
Faculty of Law, Arts and Social Sciences			
Archaeology	252	2	1%
English	243	3	1%
Modern Languages	160	0	0%
Music	280	5	2%
Politics	138	6	4%
Economics	357	89	25%
Maths Education	170	34	20%
Faculty of Medicine, Health and Life Sciences			
Biology	796	24	3%
Medicine	1603	247	15%
Health Professions and Rehabilitation Sciences	332	0	0%
Nursing and Midwifery	439	0	0%
Faculty of Engineering, Science and Mathematics			
Chemistry	1128	111	10%
Electronics and Computer Science	7008	866	12%
Mathematical Studies	849	310	37%
Ocean Circulation and Climate Group, SOES	286	9	3%
James Rennell Division, SOC	792	68	9%
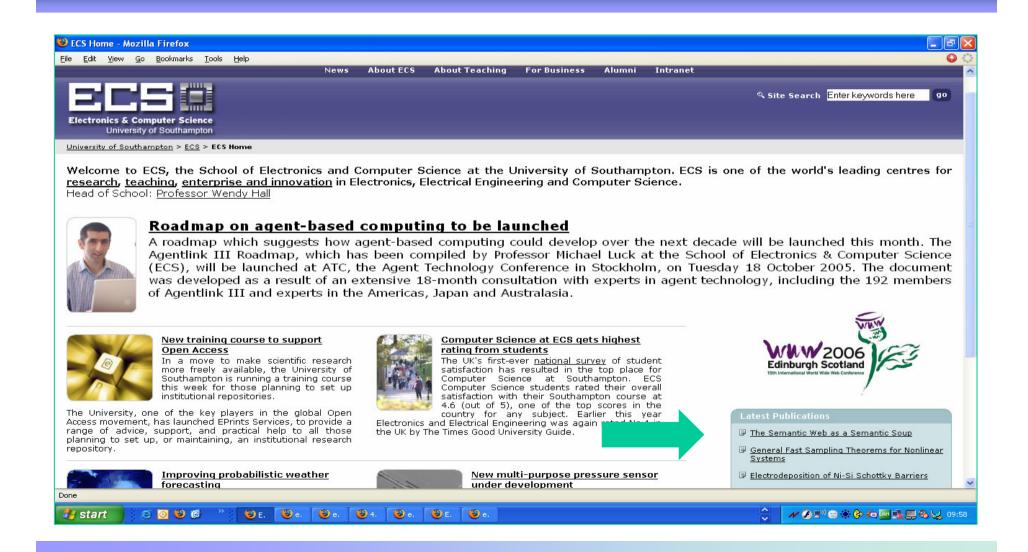
Electronics and Computer Science are improving!

- e.g. Intelligence, Agents, Multimedia Group   51 out of 58 deposits are full text in last 3 months (87%)

- However, percentages can be distorted if a new lecturer puts in his legacy publications without full text

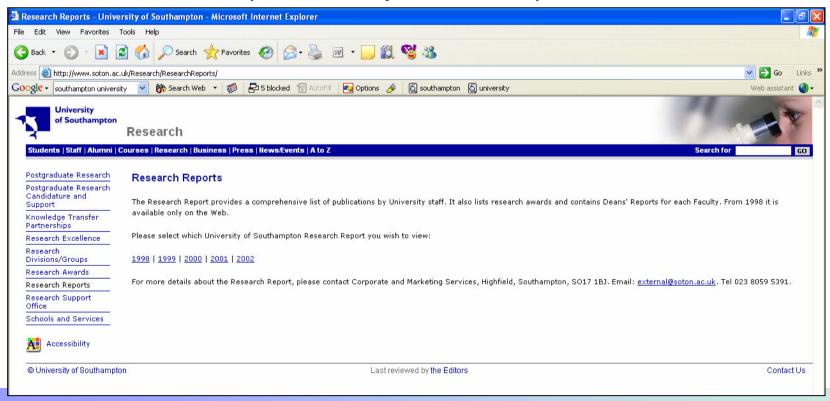# Latest publication today: The Semantic Web as a Semantic Soup

University central recording of research – reactive not proactive

Central recording mechanism via Corporate and Marketing Service – MS Word lists
"the Research Report provides a comprehensive list of publications by University staff "
Progressed to pdfs - 1998 to 2002 on the web
Need an easier, more proactive way with full text potential

From our feedback: perceived benefits to University, Schools and Researchers
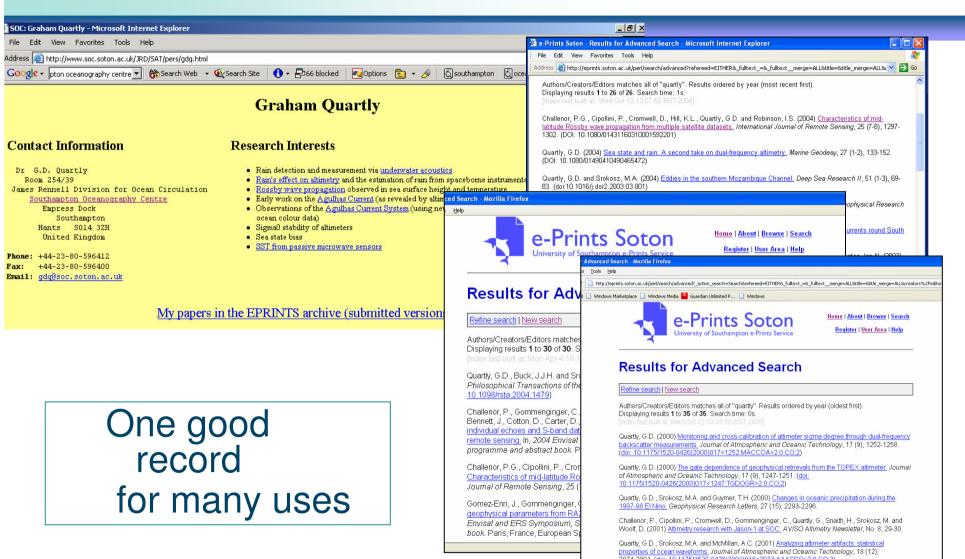
- University profile
- School and discipline visibility
- Researcher profile
- Full text content freely accessible
  - link to learning and teaching
- Increased citations

- Secure storage of publications
  - including also theses and dissertations, technical reports
- Links to projects and web pages
- Research reporting
- Interdisciplinary research

Future services eg adding a link to your web page by auto update

Southampton University
Research e-Prints
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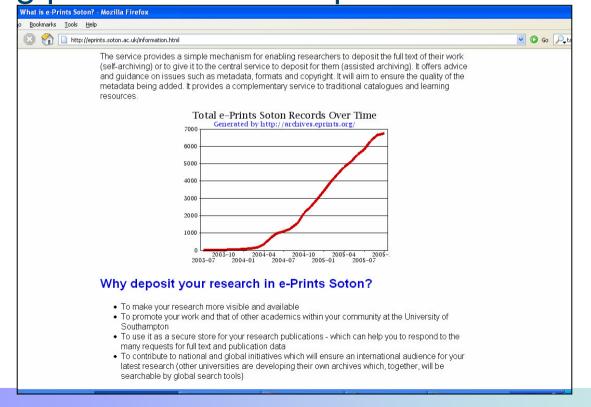

One good record for many uses

Quantity issues: developing at a rate which needs managing carefully by a core team

- Southampton growing steadily – just been linked to ISS userids and passwords
- Editing planned – will help with addition of full text
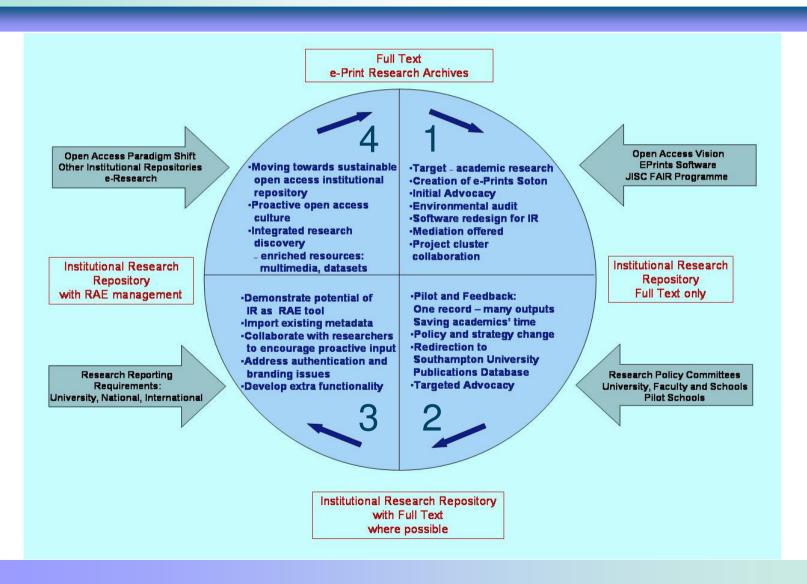
e-Prints Soton evolution

- **Original intent to provide secure storage for the full text of Southampton research output (e-Print Archive including post refereed pre published versions of papers deposited by researchers)**

- **Feedback: maximum benefit if the exercise also assisted researchers with time consuming research reporting tasks: Research Assessment (RAE), University Research Report, web pages, research proposals, CVs etc**

- **Evolved to 'hybrid' publications database for all research output with full text where available**

e-Prints Soton evolution: aiming for full moon at midnight -

the TARDis research repository route map

Southampton University
Research e-Prints
e-Prints Soton

Full Text
e-Print Research Archives

4

- Moving towards sustainable open access institutional repository
- Proactive open access culture
- Integrated research discovery
- enriched resources: multimedia, datasets

1

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

3

- 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

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

Open Access Paradigm Shift
Other Institutional Repositories
e-Research

Open Access Vision
EPrints Software
JISC FAIR Programme

Institutional Research Repository
with RAE management

Institutional Research Repository
Full Text only

Research Reporting Requirements:
University, National, International

Research Policy Committees
University, Faculty and Schools
Pilot Schools

Institutional Research Repository
with Full Text
where possible

Achieving a slower but more sustainable model – the TARDis route to achievable open access

- To achieve the original vision we are moving around the clock face

- Collaborating with academics to provide tailored valued services for different disciplines (needing extra functionality)

- Aided by a fast moving shared international movement

Developing archive for sustainability – the TARDis model

- Will be central to research recording and visibility for all disciplines
- Working to integrate as well as possible into the research recording workflow
- Working to incorporate UK research assessment data 2000-
- Initial support included for legacy import depending on availability of previous records

- Goal: author (or close academic group) self deposit (plus some assisted central support where needed) for new records with full text deposit where practicable
- Import where established practice dictates

Guardian March 14, 2005:
Scottish universities sign open access deal
The declaration commits each of its 16 university signatories to setting up online libraries of research findings and doctorate papers which all academics can access

Transition to University integrated service – shared ownership

Southampton University management (agreed Nov 2004) to support the next stage of a library managed repository for key role in research recording and visibility tasks

'**Collaboration between services and academic groups** has been the key element in the success of the project'

Collaboration with both Information Systems Services and School of Electronics and Computer Science will continue although TARDis is completing its transition to invisibility.

Southampton Press Release
15 Dec 2004

Southampton University
Research e-Prints
e-Prints Soton

'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.

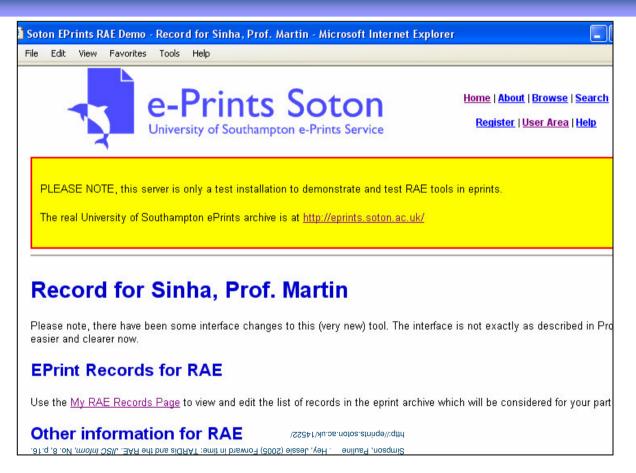(Prof. Curran is now Vice-Chancellor of Bournemouth University)

Quality emphasis

- Latest update yesterday of Research Assessment Exercise module to Research and Planning Heads
- Agreed a phased role out

- In parallel with EPrints and DSpace JISC funded project at UK level

IRRA Institutional Repositories & Research Assessment

Access to your own records to choose your papers for consideration (early prototype)

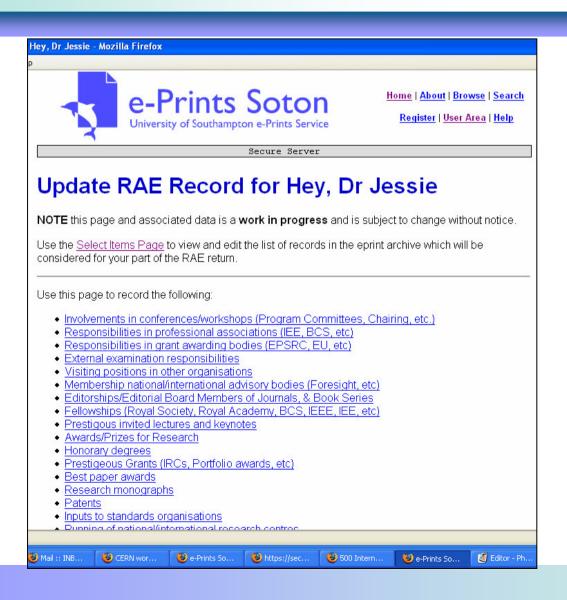**Simpson, Pauline and Hey, Jessie (2005) Forward in time: TARDis and the RAE. *JISC Inform*, No. 8, p.16. http://eprints.soton.ac.uk/14522/**

Simply select or remove your choices as you build up your record

Measures of esteem thought important for marketing as well as the RAE

Southampton University
Research e-Prints
e-Prints Soton

Information then available for Head of Group/School

Carr, Les

Miles-Board, T., Bailey, C., Hall, W. and Carr, L. (2004) Building a Companion Website in the Semantic Web. In *Proceedings of The Thirteenth International World Wide Web Conference (WWW2004)* , pages pp. 365-373, New York, NY, USA.	Also selected by: Hall, Wendy
Miles-Board, T., Deveril, , Lansdale, J., Carr, L. and Hall, W. (2003) Decentering the Dancing Text: From Dance Intertext to Hypertext. In *Proceedings of Fourteenth conference on Hypertext and Hypermedia, Hypertext'03* , pages pp. 108-119, Nottingham, UK.	
El-Beltagy, S., Hall, W., Roure, D. D. and Carr, L. (2001) Linking in Context. In *Proceedings of Proc The Twelfth ACM Conference on Hypertext and Hypermedia (Hypertext '01)* , pages pp. 151-160.	Also selected by: Hall, Wendy
Miles-Board, T., Carr, L., Kampa, S. and Hall, W. (2003) Supporting Management Reporting: A Writable Web Case Study. In *Proceedings of The Twelfth International World Wide Web Conference (WWW2003)* , pages pp. 234-243, Budapest, Hungary.	

Involvements in conferences/workshops (Program Committees, Chairing, etc.

Program Committees: International World Wide Web Conferences WWW2001, WWW2002, WWW2003, WWW2004 International Conference on Web Engineering (ICWE 2004) ACM International Conference on Hypertext and Hypermedia (HT01, HT02, HT03, HT04) Program Chairs: Thirteenth ACM International Conference on Hypertext and Hypermedia (2003) Second International Workshop on Scholarly Hypertext (2004) Conference Chair: Fifteenth International World Wide Web Conference (WWW2006)

Responsibilities in professional as

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A1 ▾ *fx* Group

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1	Group	Username	Surname	First Name	Score	Publication	Paper					
2	iam	ha	Alani	Harith		IEEE IS	Alani, H., Dasmahapatra, S., O'Hara, K. and Shadbolt, N. (200					
3	iam	ha	Alani	Harith		Perspectiv	Jones, C., Alani, H. and Tudhope, D. (2002) Geographical Tern					
4	iam	ha	Alani	Harith		Internation	Alani, H., Jones, C. and Tudhope, D. (2001) Voronoi-Based Re					
5	iam	ha	Alani	Harith		IEEE Intell	Alani, H., Kim, S., Millard, D., Weal, M., Hall, W., Lewis, P. ar					
6	iam	ha	Alani	Harith		The Journa	Tudhope, D., Alani, H. and Jones, C. (2001) Augmenting thesa					
7	iam	lac	Carr	Les		The Thirtee	Miles-Board, T., Bailey, C., Hall, W. and Carr, L. (2004) Buildir					
8	iam	lac	Carr	Les		Fourteenth	Miles-Board, T., Deveril, , Lansdale, J., Carr, L. and Hall, W. (2					
9	iam	lac	Carr	Les		Proc The T	El-Beltagy, S., Hall, W., Roure, D. D. and Carr, L. (2001) Linki					
10	iam	lac	Carr	Les		The Twelfth	Miles-Board, T., Carr, L., Kampa, S. and Hall, W. (2003) Supp					
11	iam	rmc	Crowder	Richard		Internation	Wills, G., Sim, Y.-W., Crowder, R. and Hall, W. (2002) Open H					

But we still emphasise all research output
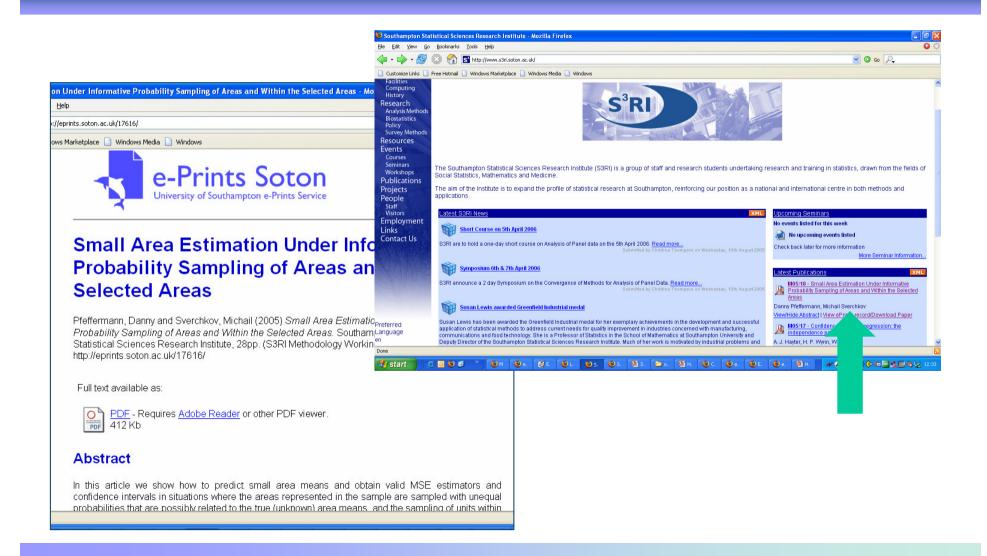
A popular download is a transfer thesis on hybrid electric vehicles

Keynote talks are also important to some

Working papers entered by institute and exported to them

Promoting research

e-Print promoted via the link: his other work gets read too

Becoming part of the infrastructure….

Southampton University Research e-Prints
e-Prints Soton

So we're getting closer to demonstrating all our research in innovative ways and satisfying both internal and external researchers
Always conscious of managing quantity and quality

An elite research institution

Farewell to the TARDis: talk now of the University of Southampton Research Repository

The institutional repository is meshing with Open Access so keep the faith!

thank you:

Jessie Hey (jmnh@ecs.soton.ac.uk)
Pauline Simpson (ps@noc.soton.ac.uk)

TARDis Project leading to Southampton University Research Repository (e-Prints Soton) http://eprints.soton.ac.uk

Many thanks especially to Natasha Lucas (metadata administrator)

embedding by collaboration with:

Leslie Carr (lac@ecs.soton.ac.uk)
EPrints software http://software.eprints.org
Chris Gutteridge (EPrints developer) and Tim Brody (IR developer)
Pete Hancock (information Systems Services)