



Research Assessment: A Diverse Role for Repositories

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Decades of Achievement

Internet (packets)



Web (documents)



Repository (preservation)



What have we achieved with this multilayered platform in the last decade?
What scope have we for achieving new things?

Openness Agendas

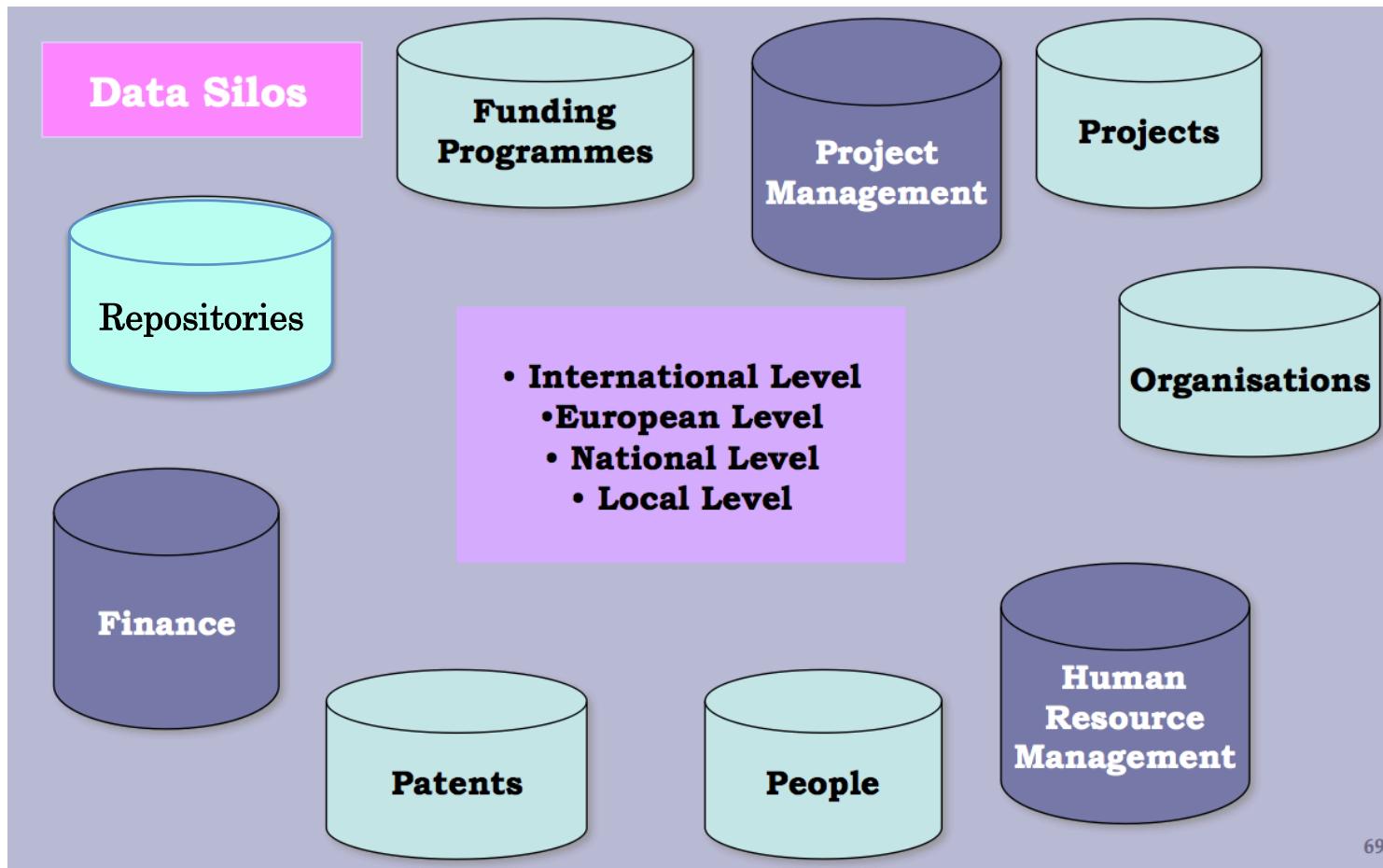
- Open Access to Research Outputs
 - Supported by all Research Councils
 - Heavily promoted by JISC
- Open Research Data
 - Move from closed VRE / EScience environment
 - To open (able) data
- Open Educational Resources
 - Move from “Learning Objects” to “Learning Resources” via Open Access practice and methodology
 - Move from closed VLEs to sharing resources
 - All underpinned by active preservation and curation policies and workflows



Open Access vs Research Assessment?

- In UK, high proportions of public-funded research
 - National research assessment processes
 - All universities required to account for research outcomes / quality
- Repositories found role in cataloguing research outputs for RAE2008
 - Embedded them at the heart of institutional infrastructure
 - Diverted (temporarily) from Open Access goals
- But for REF....

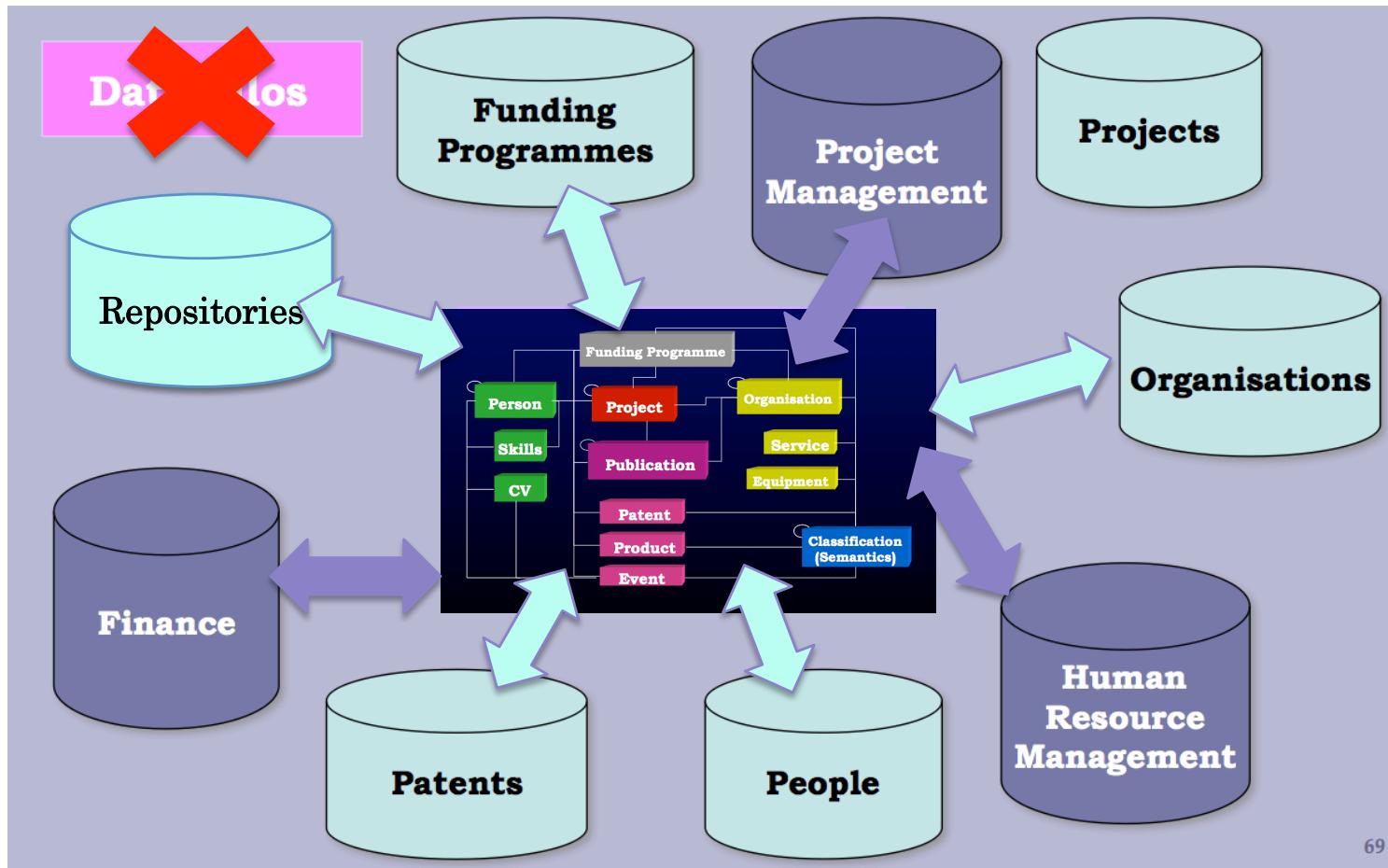
CRIS: Current Research Info Systems



69

- EuroCRIS organisation promotes systems that deal with whole research infrastructure

CRIS: Current Research Info Systems



- CERIF standard data schema interoperates between different systems

Repositories should support CERIF

FRIS portal (NL)

- CRIS pulls together all research & admin information to create a unified view about a researcher's involvement
- Comes from *administration*
- Promoted by REF

The screenshot shows the FRIS research portal interface. At the top, there is a navigation bar with links for Help, Contact, About the Portal, News, and a search bar. Below the navigation bar, there is a blue header bar with links for Research projects, Organisations, Researchers (which is the active tab), Funding programmes, and Equipment. To the right of the header bar are language links for Nederlands and English. The main content area shows a researcher profile for 'Johan Lefevre' from K.U.Leuven, Department Biomedische Kinesiologie. Below the profile, there is contact information: johan.lefevre@faber.kuleuven.be (work address), +32-16-329084 (work address), UZ-Vesaliusinstituut-q, Minderbroedersstraat 12 blok q, 3000 Leuven (postal address), and a URL (http://cwisdb.kuleuven.be/persdb-bin/persdb?lang=N&cproep=persoon&fnam=00003378) for work address. Below this, there are tabs for Profile, Collaboration, Competence, and Map. The 'Collaboration' tab is active, showing a network graph of research collaborations. The graph is centered on 'Johan Lefevre' and includes nodes for 'Sportparticipatie en fysieke activiteit in Vlaanderen.', 'Departement Humane Kinesiologie', 'Robert Vlietinck', 'Robert Fagard', 'Martine Thomis', 'Christophe Delecluse', 'Peter Hespel', 'Albrecht Claessens', 'Yves Vanden Auweele', 'Bartholomeus Vanreusel', and 'Leuvense Longitudinale Studie over levensstijl'. The 'Content' sidebar on the right lists 'Researchers' (Kourosch ABASPOUR TEHRANI, Ahmed ABDELHAMID, AHMED ABDELKHALEK, Ademola ABOYE), 'Organisations' (Departement Biomedische Kinesiologie, Departement Humane Kinesiologie, Afdeling Fysieke Activiteit en Gezondheid), and 'Research projects' (Sportparticipatie en fysieke activiteit in Vlaanderen, Steunpunt Cultuur, jeugd en sport). The bottom of the page contains copyright and legal information.

Help Contact About the Portal News

EWI FRIS research portal

Research projects Organisations Researchers Funding programmes Equipment

Nederlands English

Johan Lefevre

K.U.Leuven Departement Biomedische Kinesiologie

johan.lefevre@faber.kuleuven.be - work address
+32-16-329084 - work address
UZ-Vesaliusinstituut-q, Minderbroedersstraat 12 blok q, 3000 Leuven - postal address
<http://cwisdb.kuleuven.be/persdb-bin/persdb?lang=N&cproep=persoon&fnam=00003378> - work address

Profile Collaboration Competence Map

Restart

Content

Researchers

Who Johan Lefevre has worked with...

Kourosch ABASPOUR TEHRANI
Ahmed ABDELHAMID
AHMED ABDELKHALEK
Ademola ABOYE

Organisations

Where Johan Lefevre has worked...

Departement Biomedische Kinesiologie
Gymnasium - Zwembad
Tervuursevest 101, 3001 Heverlee, BE

Departement Humane Kinesiologie
Gymnasium - Zwembad
Tervuursevest 101, 3001 Heverlee, BE

Afdeling Fysieke Activiteit en Gezondheid
Gymnasium - Zwembad
Tervuursevest 101, 3001 Heverlee, BE

Research projects

What Johan Lefevre has worked on...

Sportparticipatie en fysieke activiteit in Vlaanderen
2 Jan 2008 - 31 Dec 2011

Steunpunt Cultuur, jeugd en sport
1 Jan 2007 - 31 Dec 2011

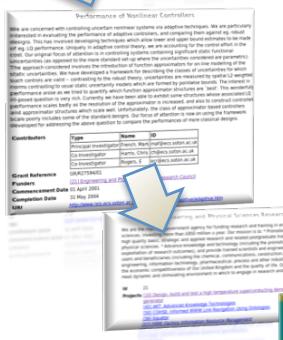
Combining Economy, Science and Innovation for a better society
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Solution provided by Astra 2008, all rights reserved
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Flemish Government
Department of Economy, Science and Innovation
Koning Albert II-laan 35 bus 10
B-1030 Brussel - Belgium
E-mail: fris@vlaanderen.be

EPrints / CRIS Chimera



publication records



which link to

grant administration records

which link to

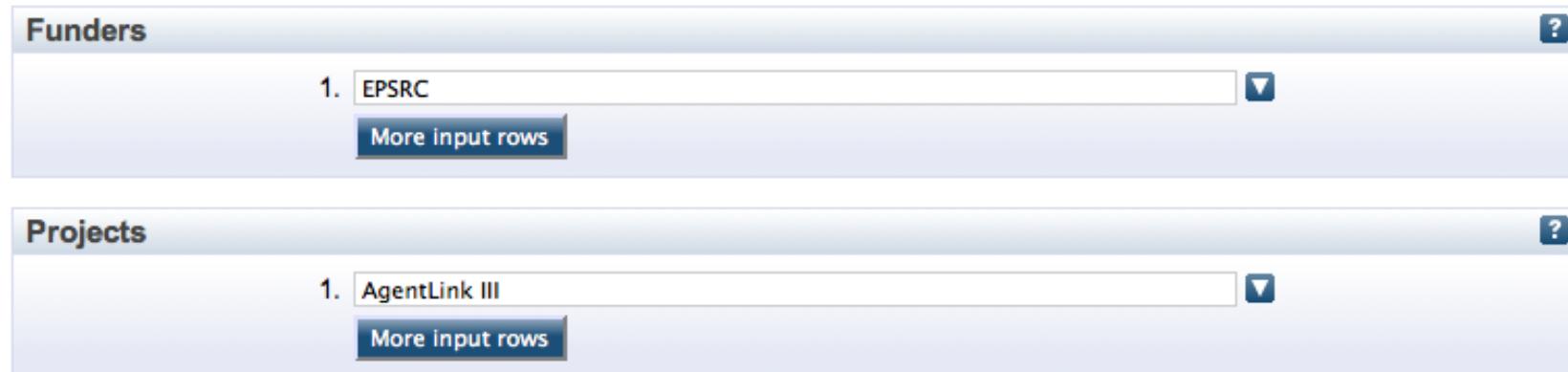
funding organisation records...

JISC R4R

- As part of JISC's Readiness for REF project, Eprints accommodates the CERIF data scheme
 - CERIF data interchange
 - Not just *publications* but *projects* and *organisations*
- CERIFed repositories have many separate datasets, all linked together via explicit relationships
 - a paper doesn't have a *project property*, it is related to *project objects*

EPrints Before (sans CERIF)

- Projects and funding organisations are just names typed into the paper's metadata record
 - with name authority assistance



The image shows a screenshot of the EPrints interface. It consists of two main sections: 'Funders' and 'Projects'.
Funders: This section has a header 'Funders' with a help icon. Below it is a list box containing the entry '1. EPSRC' and a 'More input rows' button.
Projects: This section has a header 'Projects' with a help icon. Below it is a list box containing the entry '1. AgentLink III' and a 'More input rows' button.

EPrints After

- Now they are repository objects in their own right
- A paper links to its affiliated projects, instead of just mentioning them

Formate assay in body fluids: application in methanol poisoning.

Makar, A B and McMartin, K E and Palese, M and Tephly, T R (1975) *Formate assay in body fluids: application in methanol poisoning*. *Biochemical medicine*, 13 (2). pp. 117-26. ISSN 0006-2944

 PDF - Published Version
[Download \(1211Kb\)](#) | [Preview](#)

Abstract

A sensitive and specific assay for formic acid in body fluids has been developed. The assay is based on the reaction of formate with bacterial formate dehydrogenase coupled to a diaphorase-catalyzed reduction of the nonfluorescent dye resazurin to the fluorescent substance resorufin. Formate concentrations of 0.5 µg/ml of reaction mixture can be accurately measured. Small volumes of body fluids can be used for the analysis of both methanol and formate. The procedure described is simple and allows for the economical and rapid determination of formate. It can be used in studies concerned with the disposition of formate, as it relates to methanol metabolism. Also, it may be useful in studies where formate might exist as a metabolic intermediate of certain drugs or chemicals.

Projects

[\[118\] Performance of Nonlinear Controllers](#)  [\[428\] High Performance and Robust Systems](#)

Item Type: Article

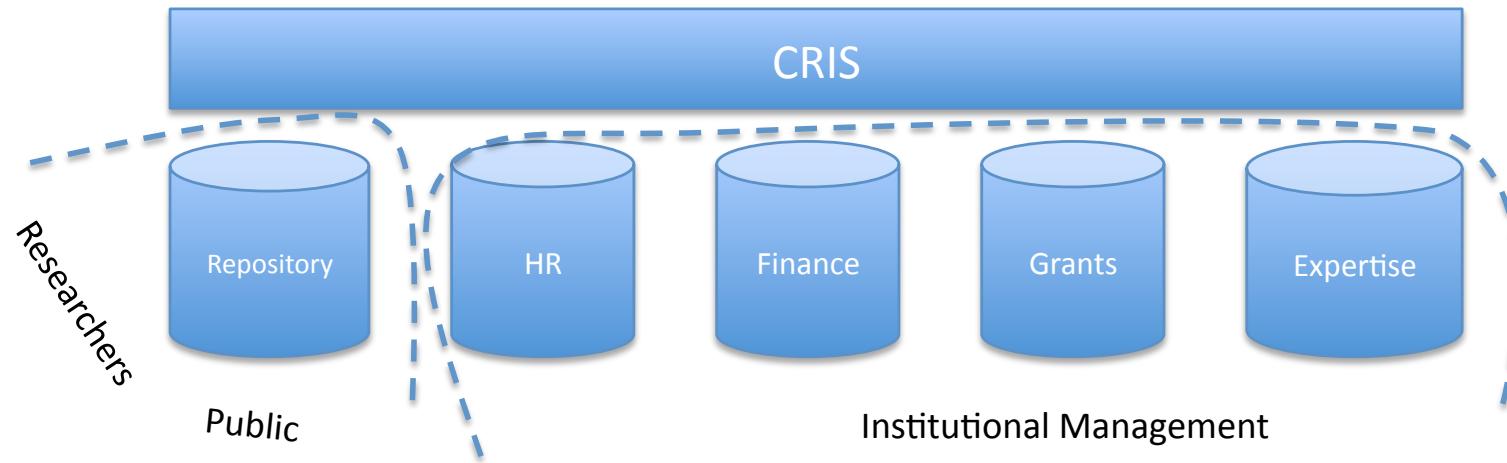
Performance of Nonlinear Controllers

We are concerned with controlling uncertain nonlinear systems via adaptive techniques. We are particularly interested in evaluating the performance of adaptive controllers, and comparing them against eg. robust designs. This has involved developing techniques which allow lower and upper bound estimates to be made of eg. LQ performance. Uniquely in adaptive control theory, we are accounting for the control effort in the cost. Our original focus of attention is in controlling systems containing significant static functional uncertainties (as opposed to the more standard set-up where the uncertainties considered are parametric). The approach considered involves the introduction of function approximators for on-line modelling of the static uncertainties. We have developed a framework for describing the classes of uncertainties for which such controls are valid -- contrasting to the robust theory, uncertainties are measured by spatial L2 weighted norms contrasting to usual static uncertainty models which are formed by pointwise bounds. The interest in performance arose as we tried to quantify which function approximator structures are 'best'. This wonderfully ill-posed question is very rich. Currently we have been able to exhibit some structures whose associated LQ performance scales badly as the resolution of the approximator is increased, and also to construct controllers and approximator structures which scale well. Unfortunately, the class of approximator based controllers scale poorly includes some of the standard designs. Our focus of attention is now on using the framework developed for addressing the above question to compare the performances of more classical designs.

Contributors	Type	Name	ID
Principal Investigator	French, Mark	maf@ecs.soton.ac.uk	
Co-Investigator	Harris, Chris	ch@ecs.soton.ac.uk	
Co-Investigator	Rogers, E	ecr@ecs.soton.ac.uk	

Grant Reference GR/R27594/01
Funders [\[21\] Engineering and Physical Sciences Research Council](#)
Commencement Date 01 April 2001
Completion Date 31 May 2004
URI <http://www.isis.ecs.soton.ac.uk/control/projects/adaptive/adaptive.htm>
Id 118

CRIS Dichotomy

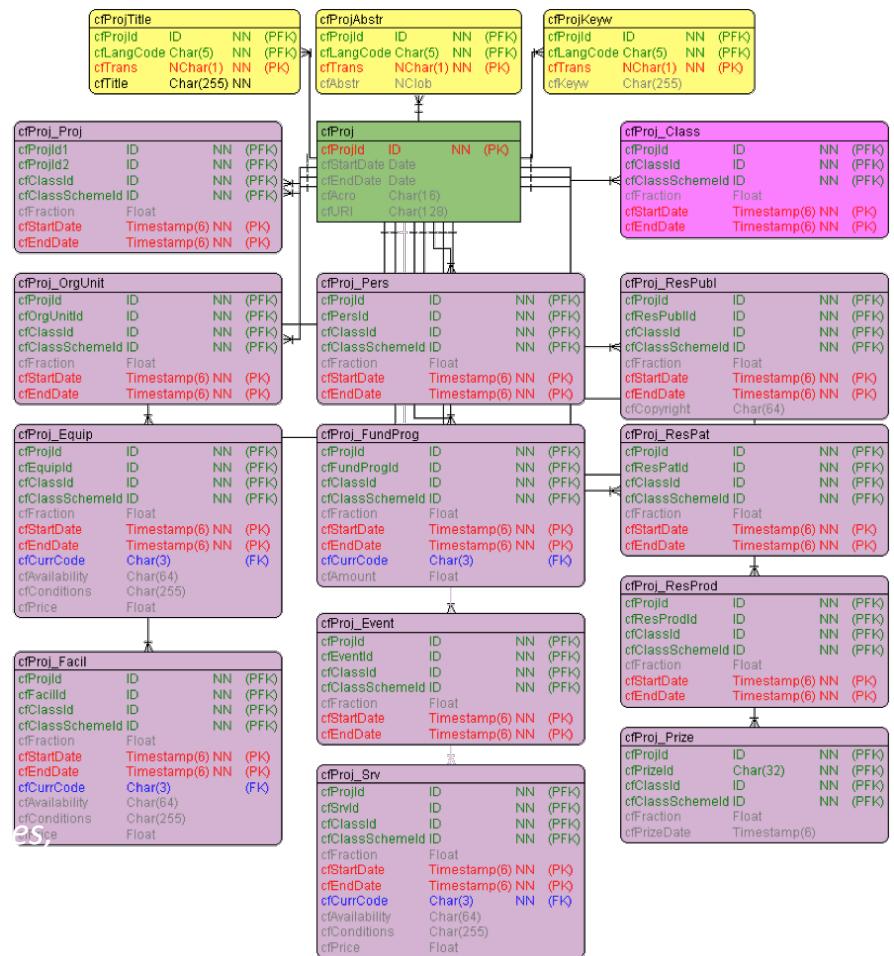


CRIS components attempt to provide service to
research management and administrators

Repository attempts to reach researchers and
public, and provide a service to management

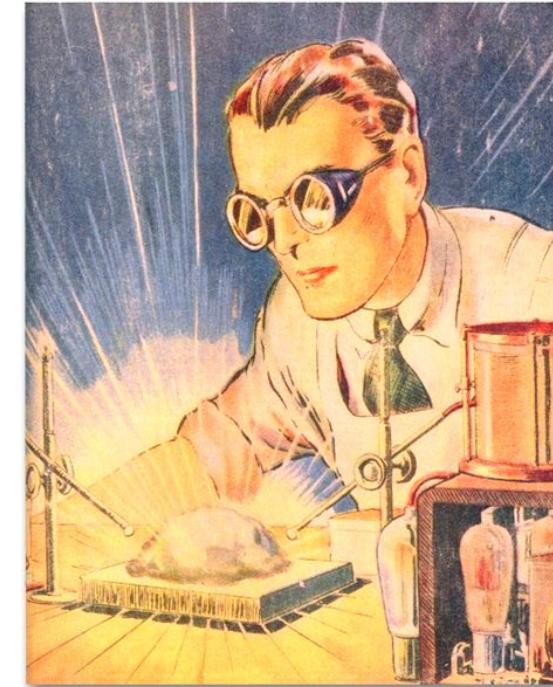
Admin/CERIF View of A Project

- Grant ID / Funder / Amount
- Start date, End Date
- Investigators
- Budget breakdown



Researchers' View of A Project

- Project name
- Project aims / objectives
- Project Logo / Website / Blog
- Press releases
- News clippings
- Funder



EdSpace

UNIVERSITY OF
Southampton
School of Electronics
and Computer Science

Welcome to the EdSpace project website

: is developing EdShare, the University of Southampton service to support sharing and collaboration in research and teaching. EdShare aims to change culture in the University of Southampton by facilitating all involved in education to share educational resources. Technically, this will be achieved by implementing social "Web 2.0" style tools for a repository based on ePrints. Culturally, this will be achieved by working with all the parties involved to discover how they will benefit from such change.

Start date: 01/10/2007
End date: 30/04/2009
Funded by:
JISC

31/03/2009
EdSpace Project JISC

27/02/2009

designed
New presentation of a
range of features

26/01/2009
EdShare upgrade to
v.1.3
26 Jan 2009

Bookmarking
functionality
Rev. SNEEP - Comments
and Notes

[More Updates](#)

EdSpace is a JISC-funded project within the Institutional Exemplars Programme. It is managed from within the School of Electronics and Computer Science in collaboration with other groups across the University of Southampton: iSolutions (formerly ISS), the Library, Student Services and the Learning and Teaching Enhancement Unit (LATEU).

Contact Us | Intranet | © 2008 University of Southampton

Repository / CRIS combination

- Bring new perspective to CRIS
 - Researcher-oriented
 - Publicity-oriented
 - Marketing-oriented
- Descriptive, narrative
- Complementary to administrative perspective

Pulling Together

- JISC Open Impact project
- Repository of High Impact Research
- Brings together staff, outputs, projects
 - Repository acts as a CRIS
 - Holds admin data
 - Collects outputs and evidence



Academy of Computing

Login | Create Account

Home | About | Web Science

Description | Business Description | Journalism Description | Political Description

Web Science is the study of the largest information construct on the planet (the Web), the engineering principles of the protocols and software that form it and the impact of universal information provision on society. The Web Science Research Initiative (WSRI) was set up in 2006 as the result of a Memorandum of Understanding between MIT CSAIL and University of Southampton, ECS. (The founding directors from ECS are Professors Wendy Hall, Nigel Shadbolt and Tim Berners-Lee.) The ambition was to coordinate and support the study of the decentralised information system that is the World Wide Web. Since the launch of this Initiative the concept of Web Science has been widely disseminated and is establishing itself as an important area of activity. WSRI 19s activities have focused on (i) articulating a research agenda for the broader scientific community, (ii) coordinating the development of Web Science educational material and curricula and (iii) engaging in thought leadership for this emerging field. In order to continue with these activities and in support of the global development of Web Science the Directors of WSRI have established a charitable body - the Web Science Trust (WST). Independent of the original founding institutions, the goal is to encourage the widest participation in the development of Web Science.

Key publications

Timeline of Web Science research activity

Download (216Kb)

Key researchers

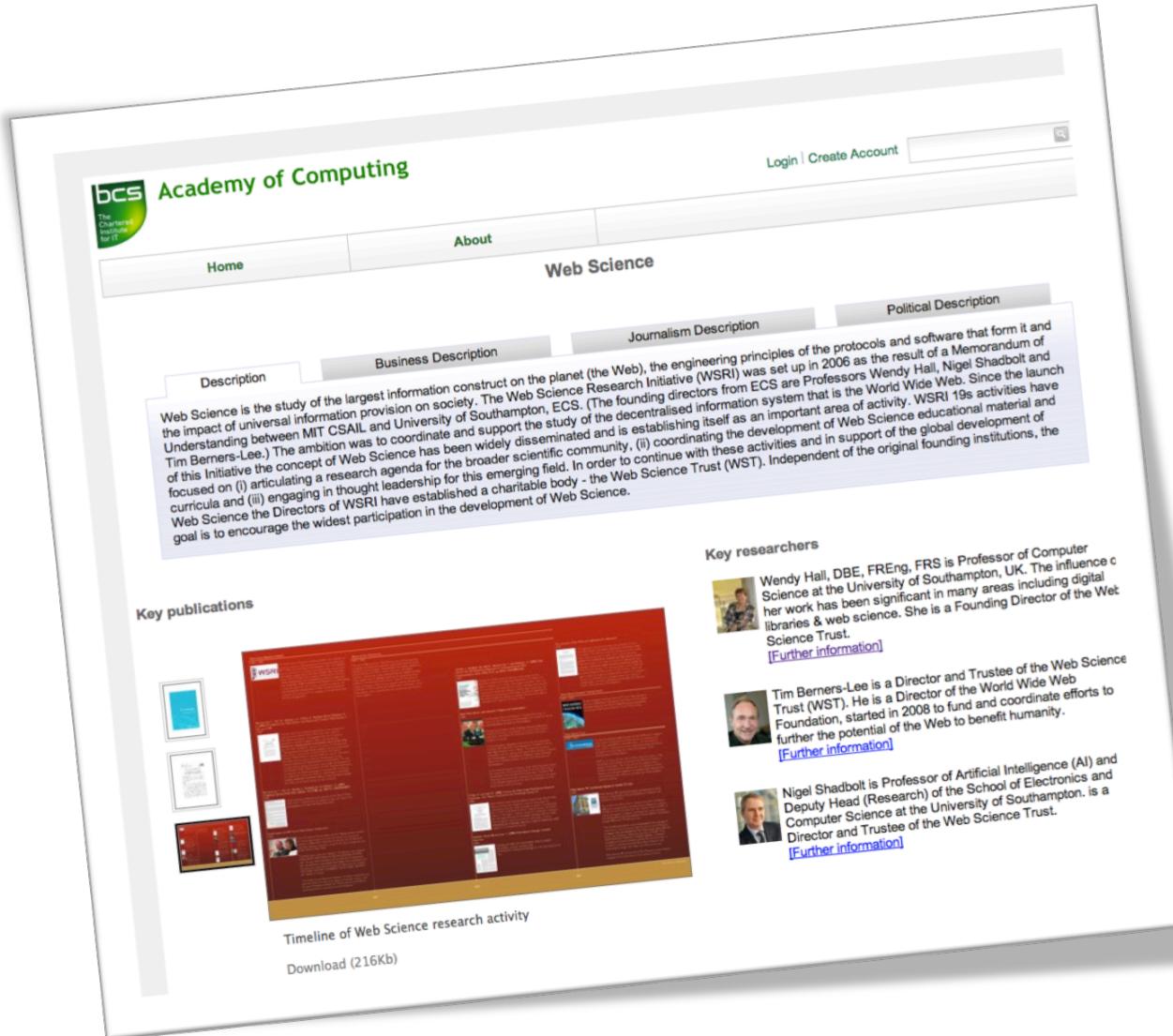
Wendy Hall, DBE, FREng, FRS is Professor of Computer Science at the University of Southampton, UK. The influence of her work has been significant in many areas including digital libraries & web science. She is a Founding Director of the Web Science Trust. [\[Further information\]](#)

Tim Berners-Lee is a Director and Trustee of the Web Science Trust (WST). He is a Director of the World Wide Web Foundation, started in 2008 to fund and coordinate efforts to further the potential of the Web to benefit humanity. [\[Further information\]](#)

Nigel Shadbolt is Professor of Artificial Intelligence (AI) and Deputy Head (Research) of the School of Electronics and Computer Science at the University of Southampton. is a Director and Trustee of the Web Science Trust. [\[Further information\]](#)

JISC

Impact Narratives



The screenshot shows the 'Web Science' page of the bcs Academy of Computing website. The page features a navigation bar with 'Home', 'About', 'Web Science', 'Description', 'Business Description', 'Journalism Description', and 'Political Description'. The 'Description' tab is active, displaying a detailed text box about the Web Science Research Initiative (WSRI). Below this, there are sections for 'Key publications' (with a 'Timeline of Web Science research activity' PDF available for download) and 'Key researchers' (profiles for Wendy Hall, Tim Berners-Lee, and Nigel Shadbolt).

Web Science is the study of the largest information construct on the planet (the Web), the engineering principles of the protocols and software that form it and the impact of universal information provision on society. The Web Science Research Initiative (WSRI) was set up in 2006 as the result of a Memorandum of Understanding between MIT CSAIL and University of Southampton, ECS. (The founding directors from ECS are Professors Wendy Hall, Nigel Shadbolt and Tim Berners-Lee.) The ambition was to coordinate and support the study of the decentralised information system that is the World Wide Web. Since the launch of this Initiative the concept of Web Science has been widely disseminated and is establishing itself as an important area of activity. WSRI 19s activities have focused on (i) articulating a research agenda for the broader scientific community, (ii) coordinating the development of Web Science educational material and curricula and (iii) engaging in thought leadership for this emerging field. In order to continue with these activities and in support of the global development of Web Science the Directors of WSRI have established a charitable body - the Web Science Trust (WST). Independent of the original founding institutions, the goal is to encourage the widest participation in the development of Web Science.

Key publications

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Download (216Kb)

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- Collecting evidence of *research impact*
- Preserving evidence
- Presenting evidence
- Publications, press reports, reviews etc

Timelines of Research Activity

- Generated from repository RSS feed
- Using off-the-shelf timeline software
 - Timeline 3D for Mac
 - *Allows different visualisations: posters, movies*



Presenting Research Feeds as Slideshows



[University of Southampton](#) > [ECS](#) > [feed2pptx](#)

Use the form below to generate slideshows (in .pptx format) from [RSS](#) (1.0, 2.0) or [Atom](#) (0.3, 1.0) feeds.

Enter the URL of the feed, and then select a template to base the generated slideshow from:

Funded by:
JISC
as part of the
[Open Impact project](#)

URL of feed:

Select a template:

 [ECS researchers develop intelligent medical sensors](#)

 [ECS engineers power to success in World Solar Boat Championships](#)

Image scale factor:
resizes feed images up or down by this factor

Maximum content length:
trim content of feed items to this number characters, or set to 0 for no trimming

e.g. RSS Feed from Press Releases

feed-4.pptx

Slides Outline

12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12

4 Researchers pioneer new technology for pharmaceutical drug delivery

A new technology platform for testing drugs will simplify the process and drive new research for the treatment of diseases such as chronic pain, epilepsy, and certain types of heart disease.

5 ECS researchers develop intelligent medical sensors

ECS researchers are developing intelligent medical sensors which can be worn by patients to monitor their symptoms and which will alert GPs if medical intervention is needed.

6 Wendy Hall receives honorary degree and city freedom in Greece

The unique contribution to research and innovation of an ECS Professor has been recognised by the Aristotle University of Thessaloniki.

7 HV Lab staff celebrate opening of new research space

Staff and students at the Tony Davies High Voltage Laboratory are celebrating the completion of construction work in the Lab which has provided valuable new space for high voltage research.

8 ECS PhD thesis on Control judged best in the UK by IET

Dr Domenic Buchateller, Research Fellow in the School of Electronics and Computer Science, has received this year's 1% Control and Signal Processing award from the Institution of Engineering and Technology ...

9 ECS engineers power to success in World Solar Boat Championships

Team Herbie, led by Dr Peter Wilson of the School of Electronics and Computer Science, has achieved outstanding success in Solar Splash - the World Solar Boat Championships.

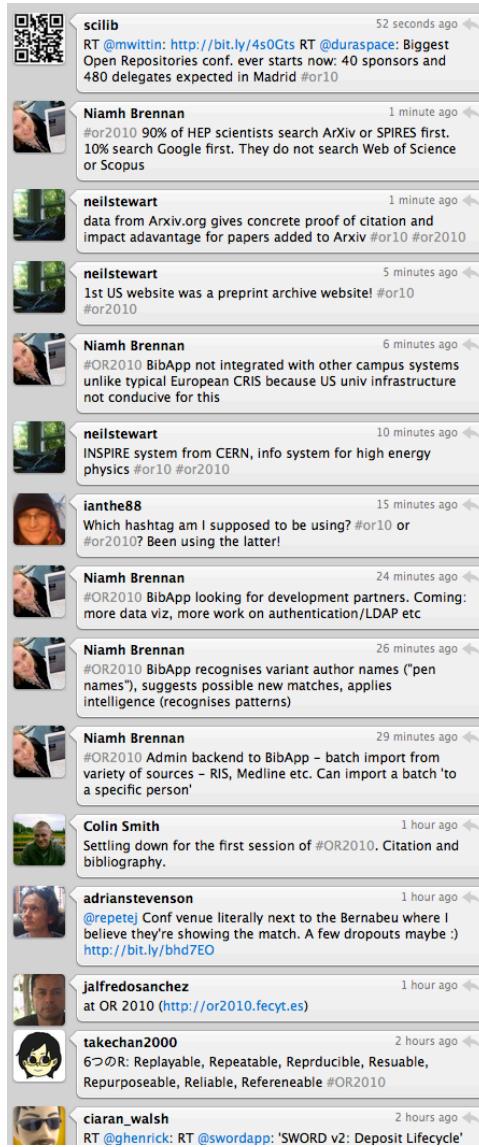
Click to add notes

http://www.ecs.soton.ac.uk/news/3266

Staff and students at the Tony Davies High Voltage Laboratory are celebrating the completion of construction work in the Lab which has provided valuable new space for high voltage research.

Slide 7 of 10

Repository collecting social feeds



scilib RT @mwittin: <http://bit.ly/4s0Gts> RT @duraspace: Biggest Open Repositories conf, ever starts now: 40 sponsors and 480 delegates expected in Madrid #or10

Niamh Brennan 1 minute ago #or2010 90% of HEP scientists search ArXiv or SPIRES first. 10% search Google first. They do not search Web of Science or Scopus

neilstewart 1 minute ago data from Arxiv.org gives concrete proof of citation and impact adavantage for papers added to Arxiv #or10 #or2010

neilstewart 5 minutes ago 1st US website was a preprint archive website! #or10 #or2010

Niamh Brennan 6 minutes ago #OR2010 BibApp not integrated with other campus systems unlike typical European CRIS because US univ infrastructure not conducive for this

neilstewart 10 minutes ago INSPIRE system from CERN, info system for high energy physics #or10 #or2010

ianthe88 15 minutes ago Which hashtag am I supposed to be using? #or10 or #or2010? Been using the latter!

Niamh Brennan 24 minutes ago #OR2010 BibApp looking for development partners. Coming: more data viz, more work on authentication/LDAP etc

Niamh Brennan 26 minutes ago #OR2010 BibApp recognises variant author names ("pen names"), suggests possible new matches, applies intelligence (recognises patterns)

Niamh Brennan 29 minutes ago #OR2010 Admin backend to BibApp - batch import from variety of sources - RIS, Medline etc. Can import a batch 'to a specific person'

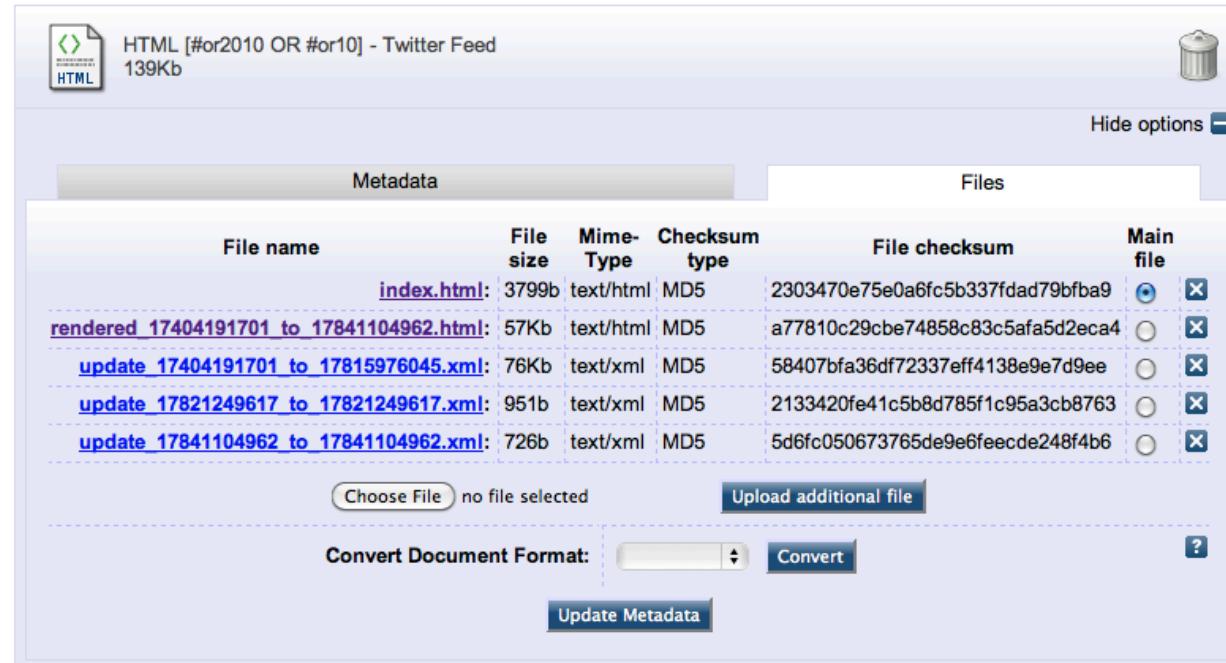
Colin Smith 1 hour ago Settling down for the first session of #OR2010. Citation and bibliography.

adrianstevenson 1 hour ago @repete! Conf venue literally next to the Bernabeu where I believe they're showing the match. A few dropouts maybe :) <http://bit.ly/bhd7EO>

jalfredosanchez 1 hour ago at OR 2010 (<http://or2010.fecyt.es>)

takechan2000 2 hours ago 6つのR: Repetible, Repeatable, Reprducible, Resuable, Repurposeable, Reliable, Referenceable #OR2010

cieran_walsh 2 hours ago RT @ghenrik: RT @swordapp: 'SWORD v2: Deposit Lifecycle'



HTML [#or2010 OR #or10] - Twitter Feed 139Kb

Metadata

Files

File name	File size	Mime-type	Checksum type	File checksum	Main file
index.html	3799b	text/html	MD5	2303470e75e0a6fc5b337fdad79bfa9	<input checked="" type="radio"/> <input type="checkbox"/>
rendered_17404191701_to_17841104962.html	57Kb	text/html	MD5	a77810c29cbe74858c83c5afa5d2eca4	<input type="radio"/> <input checked="" type="checkbox"/>
update_17404191701_to_17815976045.xml	76Kb	text/xml	MD5	58407bfa36df72337eff4138e9e7d9ee	<input type="radio"/> <input checked="" type="checkbox"/>
update_17821249617_to_17821249617.xml	951b	text/xml	MD5	2133420fe41c5b8d785f1c95a3cb8763	<input type="radio"/> <input checked="" type="checkbox"/>
update_17841104962_to_17841104962.xml	726b	text/xml	MD5	5d6fc050673765de9e6feecde248f4b6	<input type="radio"/> <input checked="" type="checkbox"/>

Choose File no file selected

Upload additional file

Convert Document Format:

Update Metadata

- Twitter data periodically collected from the Twitter API
- Stored as a dynamically growing collection of XML files
- Wish to extend to other 'feeds'

Repository collecting Twitter feeds

- XML data can be downloaded for analysis
- Rendered by repository as a list of tweets for the user

Results for Twitter search for #or2010 OR #or10

 [janehsmith](#) is hoping that there will be tea at break during [#OR10](#)
Wed, 30 Jun 2010 10:12:06 +0000

 [SHERPAServices](#) making last minute arrangements for [#OR10](#) next week, poster ready, travel etc sorted, meetings sorted, if you want to meet just let us know
Wed, 30 Jun 2010 10:21:54 +0000

 [atmire](#) #OR10 overview schedule in ical <http://bit.ly/bYzr7r> and xml <http://bit.ly/cPX9ME>
Wed, 30 Jun 2010 12:54:32 +0000

 [atmire](#) #OR10 overview schedule in ical (corrected) <http://bit.ly/b7GbKn>
Wed, 30 Jun 2010 12:56:33 +0000

 [timdonohue](#) Really hoping this Madrid Metro strike gets resolved before #OR10 : <http://bit.ly/bDoAdY>
Wed, 30 Jun 2010 20:51:16 +0000

 [jserranom](#) Con Little Toni [@toniprieto](#) en la FNB preparando la presentaciÃ³n para [#OR10](#) <http://bit.ly/c5Y2DB>
Thu, 01 Jul 2010 07:43:05 +0000

 [OpenRepository](#) After a busy but successful [#ALA10](#), we are really looking forward to [#OR10](#) next week in Madrid!
Thu, 01 Jul 2010 09:23:29 +0000

 [atmire](#) Anyone else staying at the AC Aitana <http://bit.ly/8XxtFd> ?
#OR10
Fri, 02 Jul 2010 11:28:43 +0000

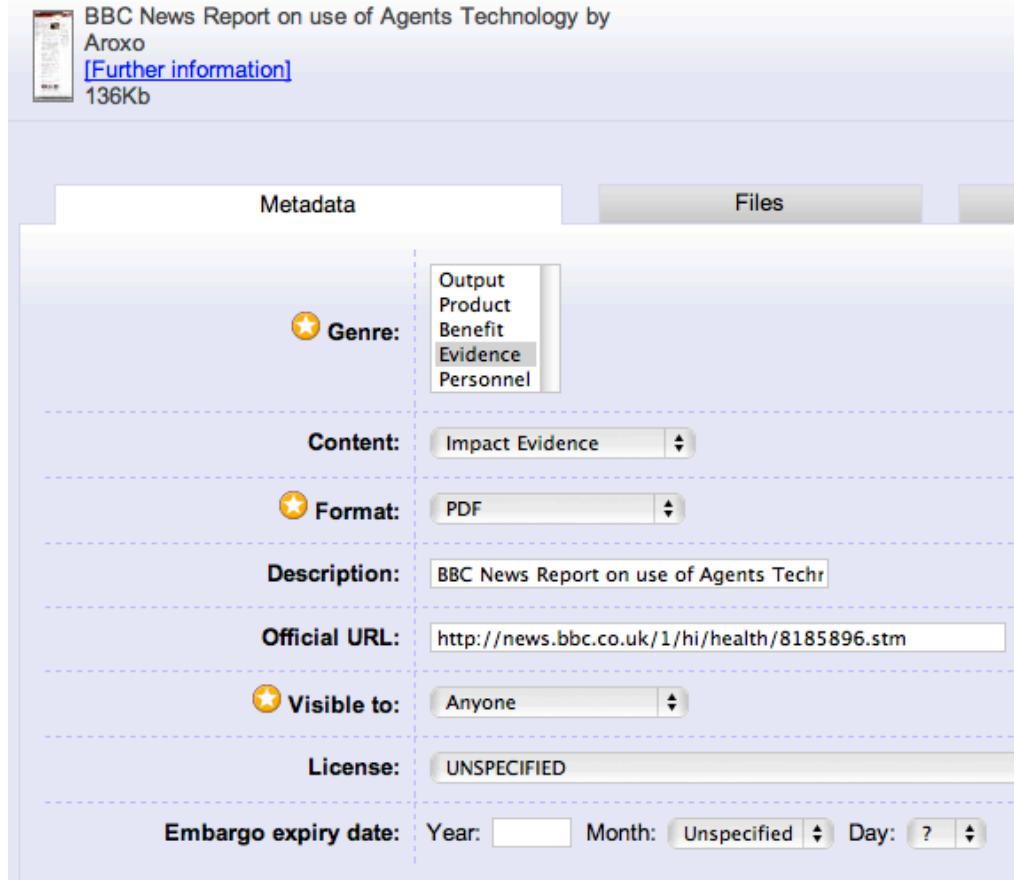
 [ianthe88](#) getting my slides ready for #or10.
Fri, 02 Jul 2010 14:16:26 +0000

Collecting Other Impact Evidence

- Accommodating unexpected objects in a dedicated research repository
 - Press releases
 - BBC news video clips
 - Reviews



The screenshot shows the BBC News homepage with a red banner at the top. Below it, a news article titled "Computer 'agents' take to the web" is displayed. The article is by Zoe Kleinman, a Technology reporter for BBC News. It features a photograph of a hand using a computer mouse next to a stack of coins. The text discusses software agents that automatically negotiate on behalf of shoppers and sellers. The BBC logo is in the top left corner, and a navigation bar with links like Home, News, Sport, Weather, iPlayer, TV, Radio, and More... is at the top.



The screenshot shows a digital repository interface. At the top, there is a thumbnail image of a document and the text "BBC News Report on use of Agents Technology by Aroxo [Further information] 136Kb". Below this, there are two tabs: "Metadata" and "Files". The "Metadata" tab is active. It contains a form with the following fields:

Genre:	<input checked="" type="checkbox"/> Output <input checked="" type="checkbox"/> Product <input checked="" type="checkbox"/> Benefit <input checked="" type="checkbox"/> Evidence <input type="checkbox"/> Personnel
Content:	Impact Evidence
Format:	PDF
Description:	BBC News Report on use of Agents Techr
Official URL:	http://news.bbc.co.uk/1/hi/health/8185896.stm
Visible to:	Anyone
License:	UNSPECIFIED
Embargo expiry date:	Year: <input type="text"/> Month: <input type="text"/> Unspecified Day: <input type="text"/>

Concluding Remarks

- Social, political & funding pressures are changing the roles of Research Information Environment
- Repositories have a history of engagement with grassroots / public
 - providing services (portfolios, collections, reports)
 - collecting/managing/preserving information and knowledge products
- These engagements can enrich administrative CRIS products
- CRIS ontological breadth can enrich repositories
- Distinction between CRIS / repository starts to blur.

A PostScript About Co-constitution

- A repository is not an information management black box
- It is a socially embedded technological phenomenon that promotes new relationships to research information
- OA Repositories have put pressure on Research Funders to change their relationship to research information
- Now Research Funders are changing repositories

