

The background of the slide is a close-up photograph of vibrant green grass blades. The blades are slightly out of focus, creating a sense of depth. Numerous small, clear water droplets are scattered across the grass, reflecting light and adding texture to the scene. The overall color palette is dominated by various shades of green, from bright lime to deep forest green.

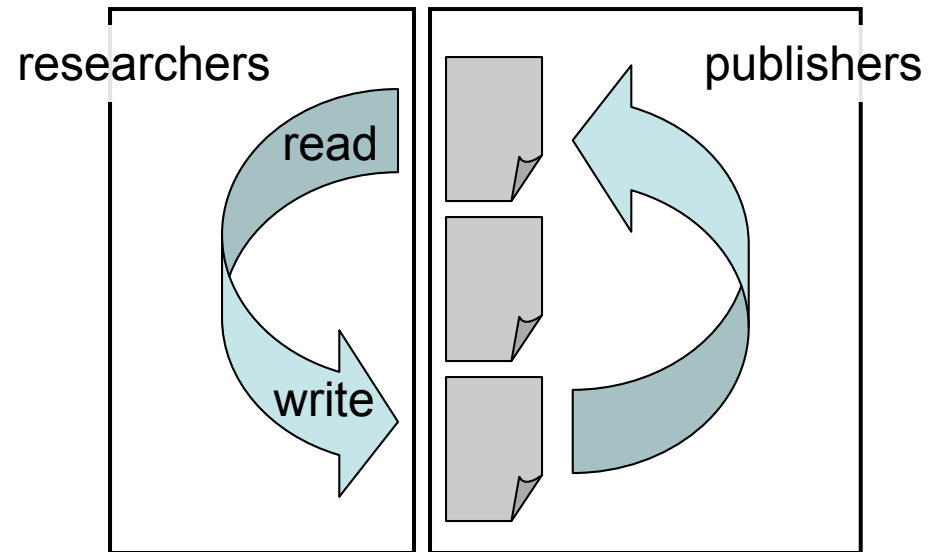
LMN: Local Loop for Information

Repositories for the Grassroots

Les Carr, www.eprints.org

Problem Space (1)

- Universities and researchers are knowledge producers and knowledge consumers
- Scholarly communications have been outsourced
- Literally nothing to show as evidence of research activities



Problem Space (2)

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



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



Arts & Humanities
Research Council



biotechnology and biological
sciences research council



Science & Technology
Facilities Council

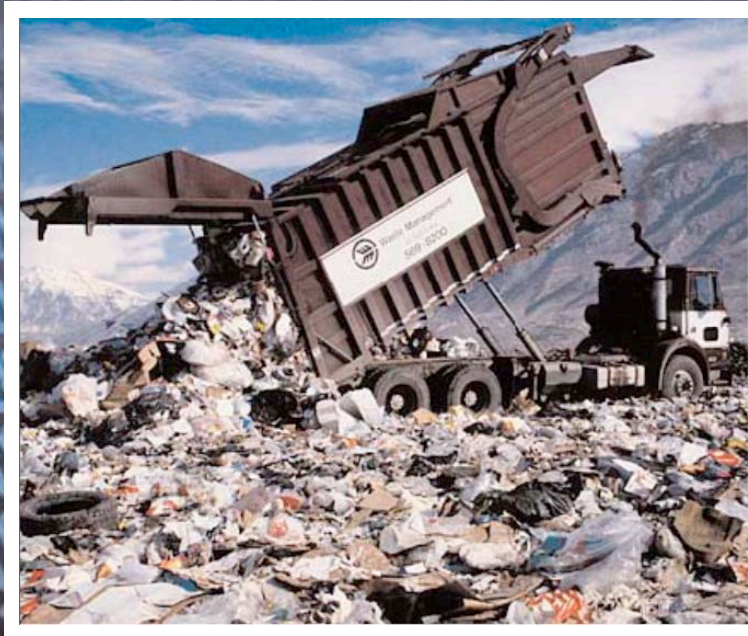


E·S·R·C
ECONOMIC
& SOCIAL
RESEARCH
COUNCIL



Engineering and Physical Sciences
Research Council

**Congratulations
on your new
research project!**



This is
where your
hardware
will end up

Make sure your data doesn't!

Research outputs go in research repositories

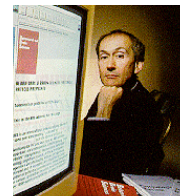


Researcher Experience

- Cavalier attitude towards data, documents, research output
- Not new phenomenon
- HG Wells, 1936 *The World Brain*

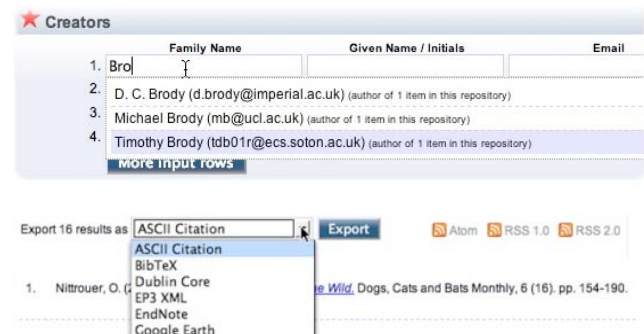
EPrints History

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



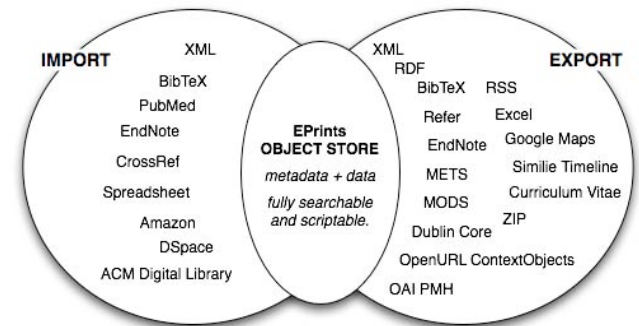
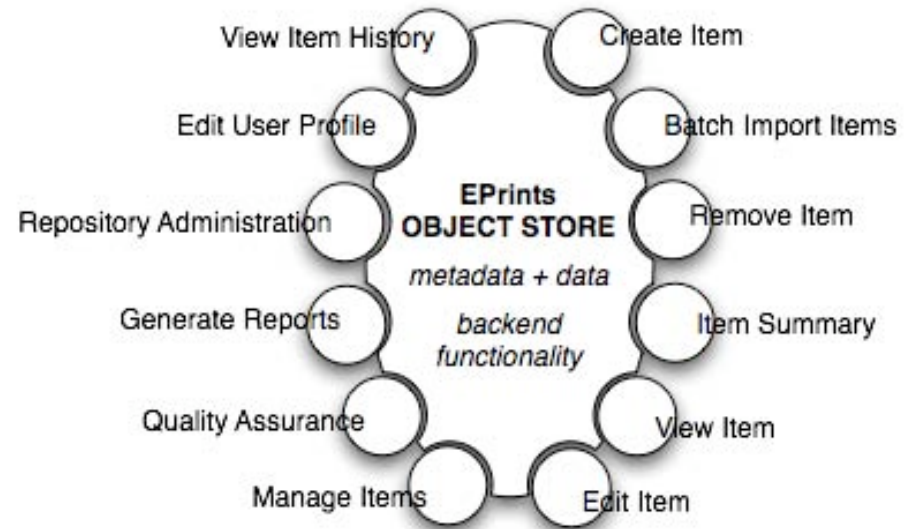
EPrints Core Objectives

- Lower the barrier for depositors while improving metadata quality and ultimate collection value
 - Time saving deposits
 - Import data from other repositories and services
 - Autocomplete-as-you-type for fast data entry
 - Name authorities
- Enter once, reuse often
 - Works with bibliography managers, desktop applications and new Web 2.0 mashups
 - RSS feeds and email alerts keep you up to date
 - Easily integrate reports, bibliographic listings, author CVs and RSS feeds into your corporate web presence
 - Used for corporate reporting and national Research Assessment
- Simple platform for open source contributions
 - Tightly-managed, quality-controlled code framework
 - Flexible plugin architecture for developing extensions



EPrints Flexibility

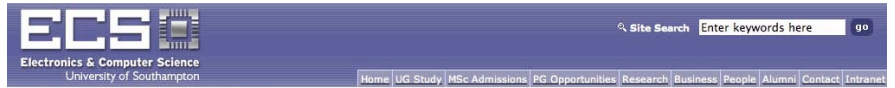
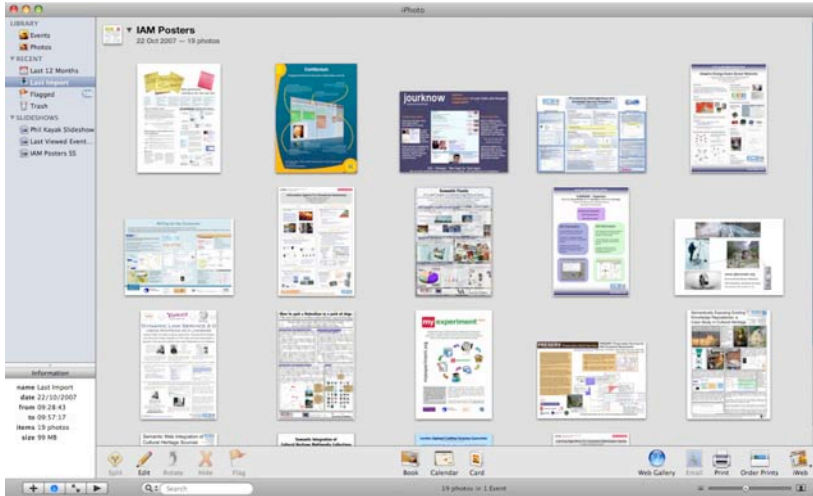
- EPrints backend
 - object store
 - API
- EPrints frontend
 - Screen plugins
 - User interface + methods + REST interface



Repository Challenges

- Small science > big science
 - Data from Big Science is easier to handle, understand and archive. Small Science is horribly heterogeneous and far more vast. In time Small Science will generate 2-3 times more data than Big Science.
- Lots of inexperienced users
 - Give individuals the tools to become responsible curators of their own intellectual output
 - Give institutions the tools to manage, assist and leverage
 - Give users the tools to access the global literature data - to use and reuse for many, many purposes in many, many contexts by many stakeholders

Diverse Applications...



University of Southampton > ECS > People > Leslie Carr

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The group secretary for the Intelligence, Agents, Multimedia Group is [Jane E Morgan](#).

Publications, PrePrints etc.

Number of items: **163**.

Article

Smart, P. R., Russell, A., Shadbolt, N. R., schraefel, m. c. and Carr, L. A. (2007) *AKTiveSA: A Technical Demonstrator System for Enhanced Situation Awareness in Military Operations Other Than War*, The Computer Journal, 50 (5). pp. 703-716.

Brody, T., Carr, L., Gingras, Y., Hajjem, C., Harnad, S. and Swan, A. (2007) *Incentivizing the Open Access Research Web: Publication-Archiving, Data-Archiving and Scientometrics*, CTWatch Quarterly, 3 (3).

Carr, L. and Brody, T. (2007) *Size Jan1 Everything: Sustainable Repositories as Evidenced by Sustainable Deposit Profiles*, DLib Magazine, 13 (7/8), ISSN 1082-9873

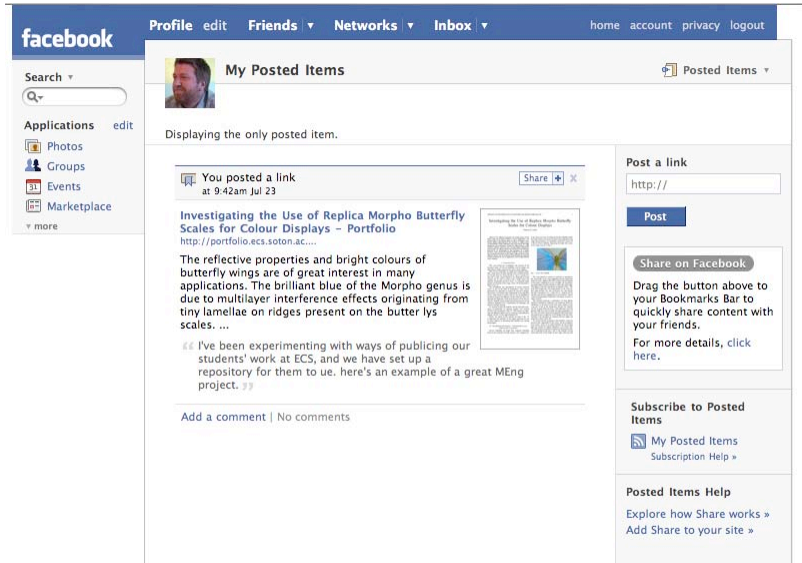
Brody, T., Carr, L., Harnad, S. and Swan, A. (2007) *Time to Convert to Metrics*, Research Fortnight, . pp. 17-18.

Hooper, C., Carr, L., Davis, H., Millard, D., White, S. and Wills, G. (2007) *AnnAnn and AnnAnn.Net - Tools for Teaching Programming*, Journal of Computers, 2 (4). (In Press)

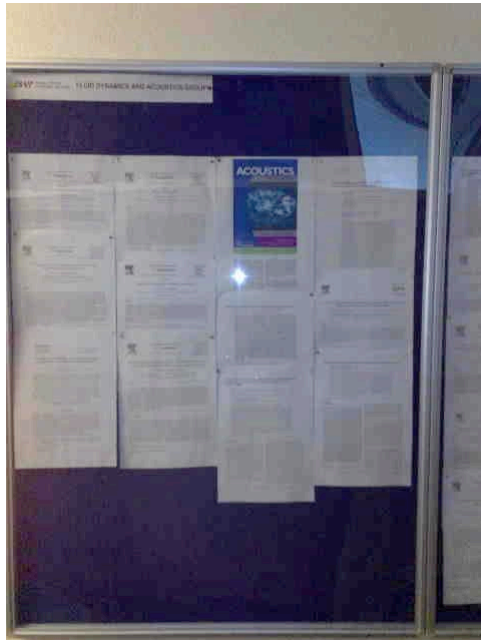
Hitchcock, S., Brody, T., Hey, J. and Carr, L. (2007) *Digital Preservation Service Provider Models for Institutional Repositories: Towards Distributed Services*, DLib Magazine, 13 (5/6), ISSN 1082-9873

Carr, L., Harnad, S. and Swan, A. (2007) *A Longitudinal Study of the Practice of Self-Archiving*, Working Paper . (Unpublished)

Andric, M., Devedzic, V., Hall, W. and Carr, L. (2007) *Keywords linking method for selecting educational web resources @ the ZooZap*, International Journal of Knowledge and Learning (IJKL), 3 (1), pp. 30-45. ISSN 1741-1017



Improving Things



How To Get Repository Used

- Find out who your stakeholders are
- Find out what is important to them
- Find out what they need to do
- Brainstorm how a repository can help
 - CVs
 - RAE
 - Research Management
 - Marketing, publicity
 - Data management

Talk talk talk talk talk
Talk talk talk talk talk
talk talk talk talk talk
Meetings
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Institutional Mandates

EMPTY



FULL



- The difference may be telling your faculty that it's not optional!

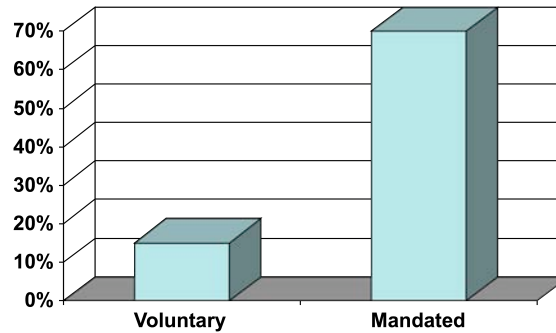
About two and a half million research articles are published annually in some 24,000 peer-reviewed journals across all disciplines and around the world.

BUT only about 15% of those articles are currently being made Open Access (OA) (freely accessible online) through spontaneous self-archiving efforts

EVEN THOUGH studies comparing citation counts report an advantage of 25%-250% for self-archived articles over non-self-archived articles in the same journal and year in 12 disciplines tested so far (Hajjem et al 2005)

AND DESPITE ninety-four percent of journals already endorsing immediate OA self-archiving (69% for the peer-reviewed postprint, 24% for the preprint).

Key performance indicator: ***How much of your institution's current annual research output appears in your repository?***



Deposit rate remains at the spontaneous 15% baseline if *unmandated*, whereas repositories with *self-archiving mandates* climb towards 100% OA within a year or two confirming multinational, multidisciplinary author surveys that predicted 95% compliance.

Mandates come in all Shapes and Sizes

Backed by Practical assistance - the library works proactively, supported by the mandate, to collect content

Backed by an Incentive - Minho University offered a financial reward for each deposit for two years

Backed by a form of Punishment - India's Nat Inst Technology withholds travel funds

Working Incognito - Southampton's mandate is disguised as a new form of Research Assessment

If an Institutional Mandate is impractical, try the *Patchwork Mandate* strategy by seeking to achieve mandates from individual departments (Sale 2007).

United Kingdom: seven of eight research funding councils have already issued OA mandates.



Southampton, ECS: unpoliced mandate shows 80% compliance

A close-up photograph of vibrant green grass blades, likely from a lawn, with numerous small, clear water droplets resting on their surfaces. The blades are oriented diagonally across the frame, creating a sense of depth and texture. The lighting is bright, highlighting the natural sheen of the grass and the glistening of the water.

**The challenges of human scale
institutional repositories versus
the challenges of industrial-scale
processing of humongous
collections.**

**Lawnmowers vs Combine
Harvesters?**

**How do you manage an entire
nation's grass clippings?**