

# UK LOCKSS Alliance

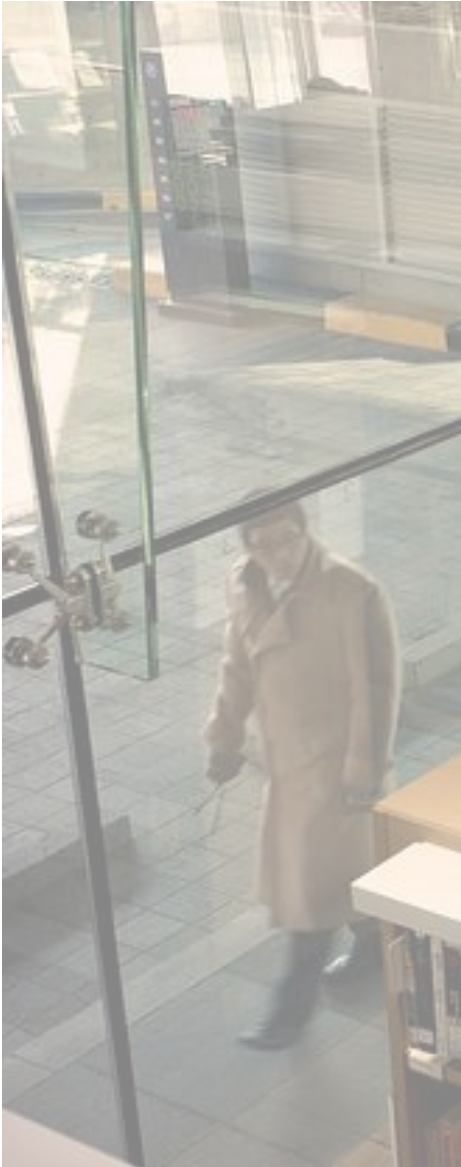
## Today's scholarly content, secured for tomorrow

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EDINA, University of Edinburgh

31<sup>st</sup> January 2012  
Trust and eJournals Workshop, London



# Summary

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- A photograph of a person in a brown coat walking through a modern library with large glass windows and wooden bookshelves. The person is carrying a bag and looking down. The background shows more bookshelves and a bright, airy interior.
- Goal of LOCKSS program: to help libraries build local archives of web published content (journals, books)
    - Trust in their own capacity to respond
  - LOCKSS: Digital equivalent of the physical shelf
    - Sufficient rights to access content as needed
    - Financial control and governance over systems
    - Integrated component of library infrastructure
  - UK LOCKSS Alliance: collaborative organisation to coordinate and support stewardship

# Background to the LOCKSS Program

- Lots of Copies Keep Stuff Safe founded by Stanford University Libraries in 1998: 14<sup>th</sup> year!
  - Libraries lease access to content, they no longer acquire content
  - Libraries are outsourcing a key function as memory organizations
  - Libraries are not in direct control of ongoing subscription costs



*Institutions use the LOCKSS technology to have **custody** and **control** over their scholarship*

- Each institution brings online a LOCKSS box
- Library staff administration – a few hours a month
- Periodically configure titles for collection in LOCKSS
  - Consult with academics to determine priorities
  - LOCKSS fetches an exact copy from the publishers website
- University has ownership of that content
  - Library controls local access, even when they can't access publisher copy

# Community Action for Assured Access



**UK LOCKSS Alliance**

Today's scholarly content, secured for tomorrow

*A co-operative organization to **ensure continuing sustainable access to scholarly work over the long term.***

*UK libraries are collaborating to build **national 'network level' infrastructure** and to coordinate the preservation of electronic material of local and UK interest. (since 2008)*

## 17 member institutions

De Montfort University  
King's College London  
London School of Economics  
Natural History Museum  
Open University  
Royal Holloway, University of London  
University of Birmingham  
University of Edinburgh  
University of Glasgow  
University of Hertfordshire  
University of Huddersfield  
University of Newcastle Upon Tyne  
University of Oxford  
University of Salford  
University of St. Andrews  
University of Warwick  
University of York



Steering Committee directs activity (next meeting May 2012)

Phil Adams (De Montfort University)  
Lisa Cardy (London School of Economics)  
Geoff Gilbert (University of Birmingham)  
Tony Kidd (University of Glasgow)  
Liz Stevenson (University of Edinburgh)  
Lorraine Estelle (JISC Collections)  
Peter Burnhill (EDINA)  
Adam Rusbridge (EDINA)

Support Service at EDINA provides underlying coordination, support and development

JISC Collections organises membership subscriptions and gives guidance and support

JISC prompted the initial project led by the Digital Curation Centre (2006-08)

# Threats to Digital Content

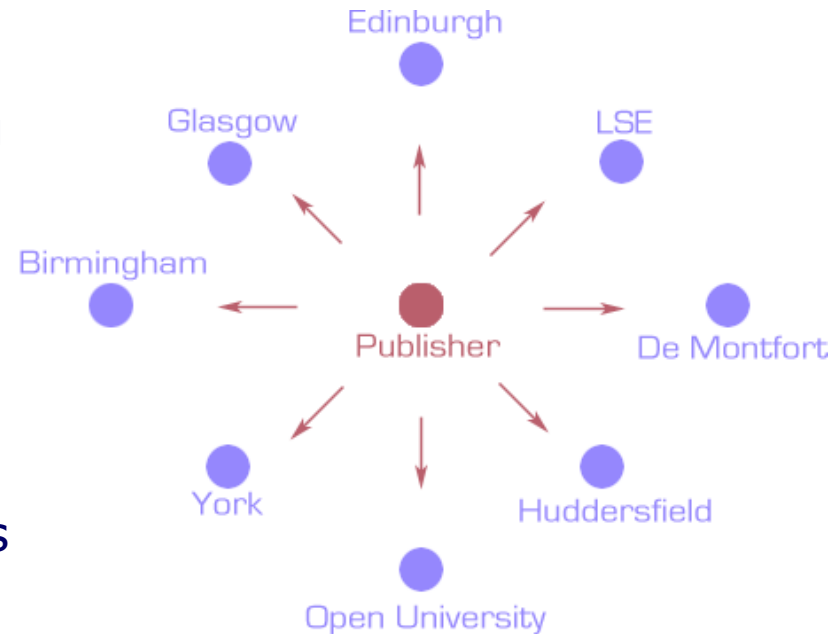
- Media failure
- Hardware failure
- Software failure
- Network failure
- Format obsolescence
- Natural disaster
- Economic failure
- Organization failure
- Operator error
- External attack
- Insider attack

*Requirements for Digital Preservation Systems: A Bottom-Up Approach (D-Lib Magazine, November 2005)*  
- David S. H. Rosenthal, Thomas Robertson, Tom Lipkis, Vicky Reich, Seth Morabito



# Technical Infrastructure

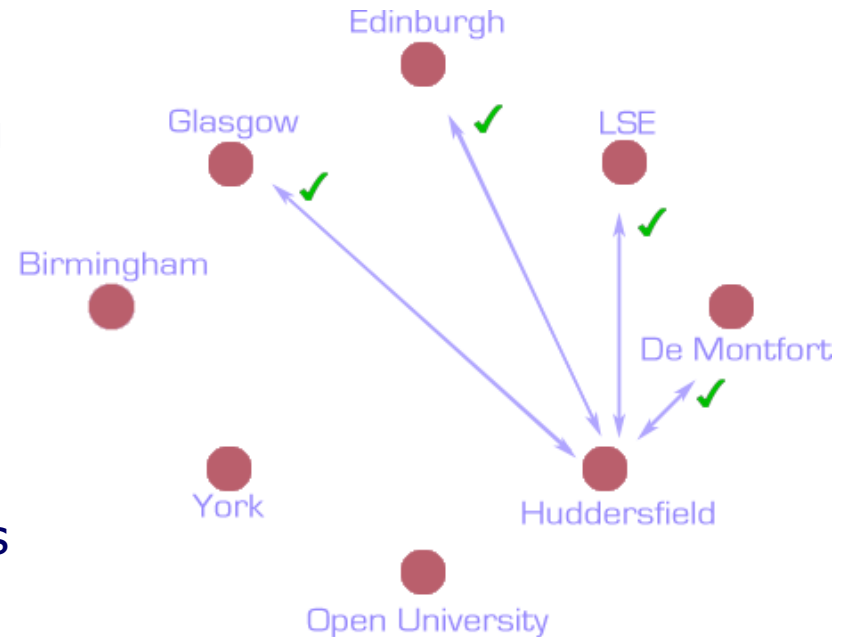
- Preserves content as published
  - HTML Standard: web published
  - Preserve the record: web archiving
- Preserves integrity
  - Audit protocol to prevent damage
  - Tamper resistant
- Avoids point of failure
  - Distributed network to avoid points of failure
  - Model on success of print collections
  - Trust success of the library





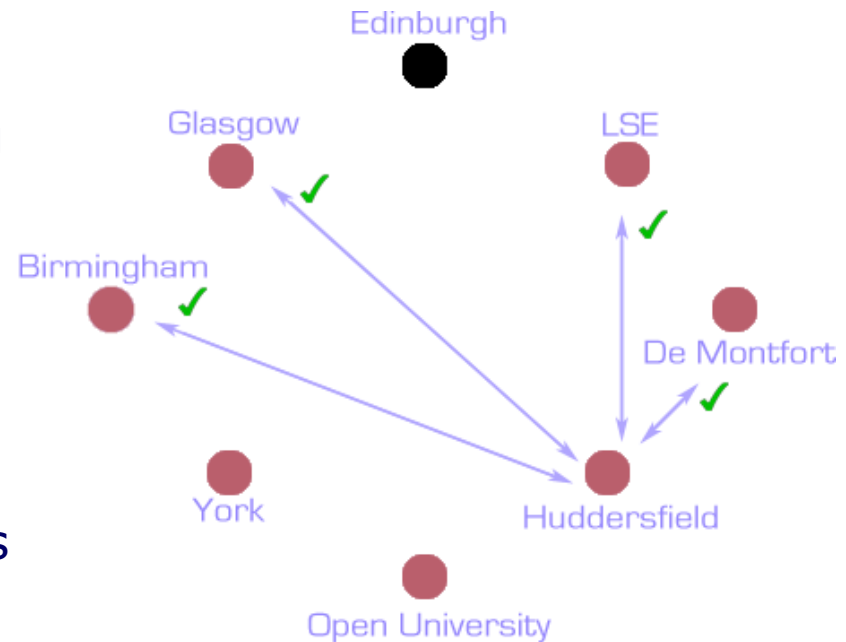
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# Why do we need e-Journal Preservation?

- Continued access in two specific scenarios:
  - Library cancels subscription to journal
    - Library needs assurance of post-cancellation access
    - Largely a problem of licensing, only for subscription content
  - Publisher no longer supplies access
    - Library needs assurance that content available elsewhere
    - Title ceased, publisher bust, or publisher failure
    - Problem for both subscription and open access content
    - Smaller publishers at greater risk: business model is less stable
- Build local collections to address both problems
- Shared technical solution, different legal and business concerns

# Accessing Content with LOCKSS

- LOCKSS integrates with your OPAC library catalogue
  - OpenURL standard: Find a copy you're allowed to access
  - Link resolver software: Serials Solutions' 360Link, Ex Libris' SFX
- Library can provide access as and when needed
  - Access consolidates institutional support, demonstrates success
- Publisher branding is retained
- LOCKSS forwards requests so publisher gets usage statistics
  - Serve from publisher if newer, LOCKSS if identical or unavailable
- Monitor use of LOCKSS as post-cancellation access service
  - Low expectation of cancellation?
  - Publishers provide their own post-cancellation access service
  - Open access? Moving subscription walls?

# Collection Development

- Growth over time
  - 2008: 300 publishers
  - 2010: 400 publishers
  - 2012 500 publishers, addition of eBooks
- What's available? What's preserved? Improved reporting in 2011.
- Near future – Books and Journals are evolving
  - Presentation of content is important now, and becoming more so
  - eJournals and eBooks are part of the web – subject to rapid change.
  - “Container” may increasingly become indistinct (articles in database, blogs)
  - HTML5 to transform environment: static to dynamic?



# Collaborative Organisational Infrastructure

- **Locally:** JISC funded Community Development Activities (2010–13)
  - Better embed preservation into university infrastructure
  - Develop well-defined policies and practices
  - Share information and engage with other initiatives
- **National: Governance with UKLA Steering Committee**
  - Collection Management Policies: Manage collections
  - Community Outreach: Build Community
  - Technical Operation and Development: Country-specific expertise
  - Finance, Activity and Resources: Ensure sustainability
- **International: software development and coordination**
  - Build software
  - Recruit publishers
  - Report out to extend trust



# Principles of LOCKSS: Building Trusted Archives

- Assured and licensed access to important, at-risk content
  - Appropriate control and custody of content
    - Within UK policy and funding control
  - Responsibility spread across the community
    - Built upon a strong organisational foundation
  - Shepherded by strong universities with strong libraries
- 
- Libraries keep what they buy
  - Publishers preserve what they publish
  - Readers have continual access


# Find out more...



## UK LOCKSS Alliance

Today's scholarly content, secured for tomorrow





The UK LOCKSS Alliance is a co-operative organization whose goal is to ensure continuing access to scholarly work in ways that are sustainable over the long term.

[Home](#) [About](#) [Get Involved](#) [Participating Institutions](#) [Steering Committee](#) [Meetings and Events](#) [Documents and Publications](#) [Support](#)

- If you would like to discover how the UK LOCKSS Alliance can help your institution, [learn more about our activities and how to participate](#).
- Current members can [view our bi-annual briefing papers](#) for a summary of recent developments.

### Updated Quick Start guide now available

Posted on [January 11, 2012](#) by [Adam Rusbridge](#)

An [update to the UK LOCKSS Alliance QuickStart guide \(version 1.2\)](#) is now available, with an extended section describing how to monitor content collection.

Posted in [Documentation](#) | Tagged [documentation](#), [quickstart](#), [ukla](#), [user guide](#) | Comments Off | [Edit](#)

### UKLA Roundup: December 2011

Posted on [December 21, 2011](#) by [Adam Rusbridge](#)

[News Entries RSS](#)

[Member's Wiki](#)

#### News Archives

- [January 2012](#)
- [December 2011](#)
- [November 2011](#)
- [October 2011](#)
- [September 2011](#)
- [August 2011](#)
- [May 2011](#)
- [March 2011](#)
- [February 2011](#)
- [December 2010](#)

#### Related Activities

- [EDINA](#)
- [CLOCKSS](#)
- [PEPRS](#)
- [PECAN](#)

[Twitter / EDINA\\_eJournals](#)

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[@EDINA\\_eJournals](#)