

# Jisc



IRUS-UK: Improving understanding of the value and impact of institutional repositories

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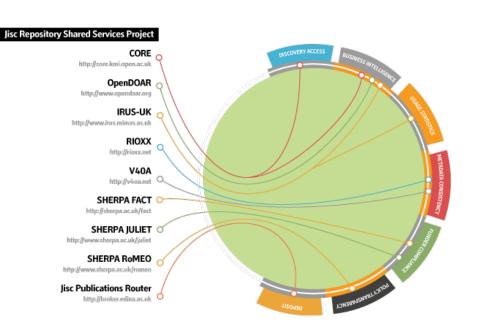
Munin Conference, November 2014



#### **IRUS-UK**

- IRUS-UK: Institutional Repository Usage Statistics UK
- Project Team Members:
  - Mimas Project & Service Management & Host
  - Cranfield University Development
  - Evidence Base, Birmingham City University User Engagement & Evaluation
- Funded by Jisc

Bringing together key repository services to deliver a connected national infrastructure to support OA







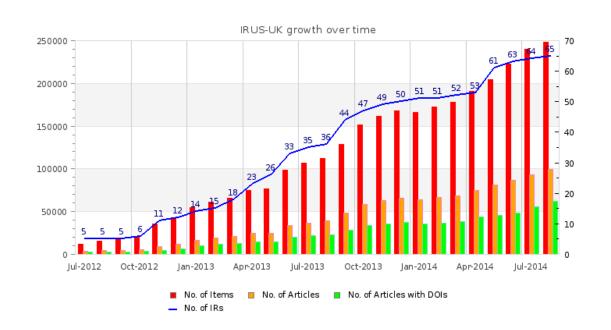
## **IRUS-UK:** background

- PIRUS2 (Publisher and Institutional Repository Usage Statistics)
  - Aim: "develop a global standard to enable the recording, reporting and consolidation of online usage statistics for individual journal articles hosted by IRs, Publishers and others"
  - Proved it was \*technically feasible\*, but (initially) easier without 'P'
  - http://www.cranfieldlibrary.cranfield.ac.uk/pirus2/
- Main outcomes:
  - IRUS-UK
    - http://www.irus.mimas.ac.uk/
  - Release 1 of the COUNTER Code of Practice for Articles
    - http://www.projectcounter.org/counterarticles.html



## **IRUS-UK:** aims and objectives

- A national aggregation service, enabling UK IRs to share/expose usage statistics at the individual item level, based on a global standard COUNTER
  - Collect raw download data from UK IRs for \*all item types\* within repositories
  - Process those raw data into COUNTER-compliant statistics
  - Facilitate comparable, standards-based measurements
- Provide an evidence base for repositories to develop policies and initiatives to help support their objectives
- Provide consistent and comprehensive statistics, presenting opportunities for benchmarking at a national level





#### **IRUS-UK:** gathering data

- Simple method to gather raw download data:
  - On download, message sent to IRUS-UK server with some basic details
- Accomplished by adding a small piece of code to repository software, which employs the 'Tracker Protocol'
  - http://www.irus.mimas.ac.uk/help/toolbox/TrackerProtocol-V3-2014-04-22.pdf
  - Pushes minimal raw download metadata to a third-party server as OpenURL
  - Patches for DSpace (1.8.x, 3.x, 4.x) and Plug-ins for Eprints (3.2-3.3.x)
  - Implementation guidelines for Fedora
- Not in IRUS-UK scope, but also successfully deployed by:
  - OAPEN Library freely accessible academic books, ARNO software
  - CORE millions of scholarly articles aggregated from many Open Access repositories



#### **IRUS-UK:** processing data

- Adhere to the processing rules specified in:
  - Release 4 of the COUNTER Code of Practice for e-Resources
  - Release 1 of the COUNTER Code of Practice for Articles
  - i.e. we filter out robot accesses and double clicks on the same basis as scholarly publishers
- The COUNTER Robot Exclusion list is specified only as a \*minimum requirement\*
  - Supplemented COUNTER CoPs, adding filters to
    - Remove more user agents
    - Apply a simple threshold for 'overactive' IP addresses
  - COUNTER Working Group on Robots formed
- Commissioned *Information Power* to:
  - Analyse raw data collected BY IRUS-UK
  - Test the feasibility of algorithms to 'dynamically' identify and filter out unusual usage/robot activity
  - Report available from <a href="http://www.irus.mimas.ac.uk/news/">http://www.irus.mimas.ac.uk/news/</a>



#### **IRUS-UK: Exposing statistics**

- Web User Interface The IRUS-UK Portal
  - Access currently behind Shibboleth authentication/authorisationt
  - Wide range of views, slicing and dicing stats from the IRUS-UK database
    - Reports available for download as CSV/Excel spreadsheet files
    - Altmetric donuts for individual items ©
- SUSHI service
  - Standard client/server web service, utilizing a SOAP request/response to retrieve the
     XML version of COUNTER or COUNTER-like reports
- SUSHI Lite API
  - Under development by the NISO SUSHI Lite Technical Report Working Group (<a href="http://www.niso.org/workrooms/sushi/sushi">http://www.niso.org/workrooms/sushi/sushi</a> lite/)
  - RESTful: uses standard HTTP GET returning JSON
  - Allows retrieval of stats snippets to be embedded into Repository (and other) web pages

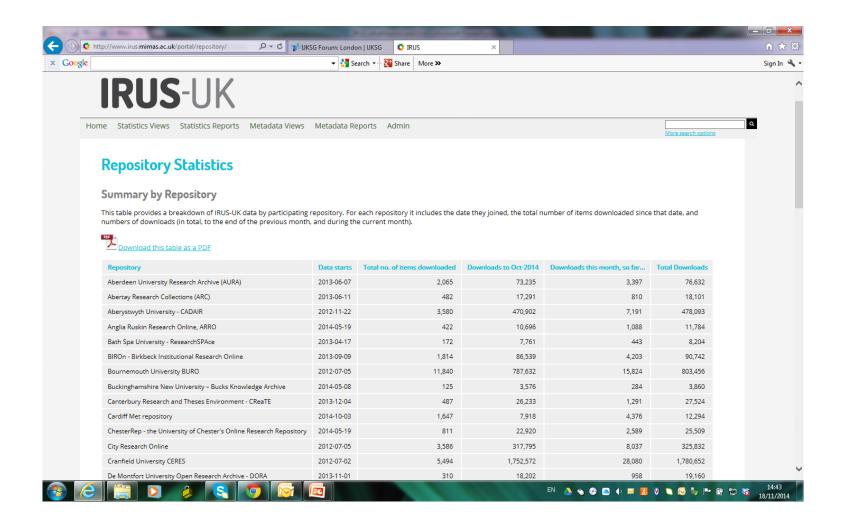


#### **IRUS-UK: Home**





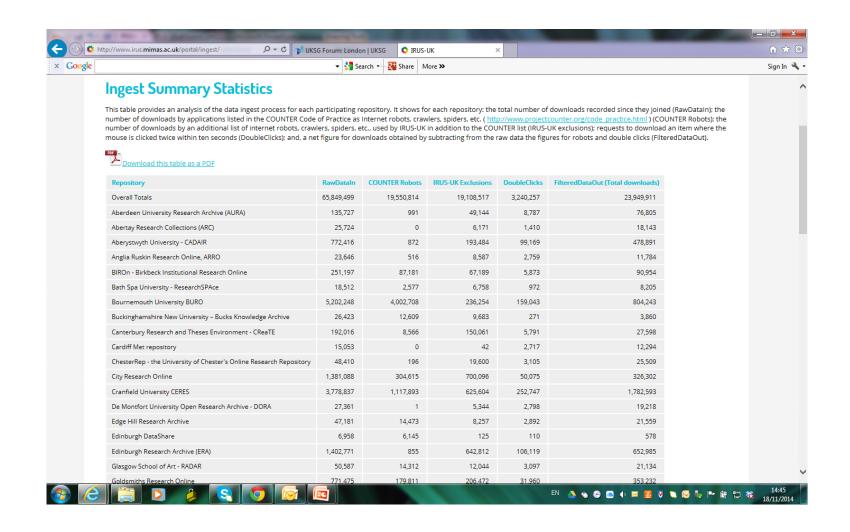
## **IRUS-UK: Repository Stats**



# **IRUS-UK: Item Types**



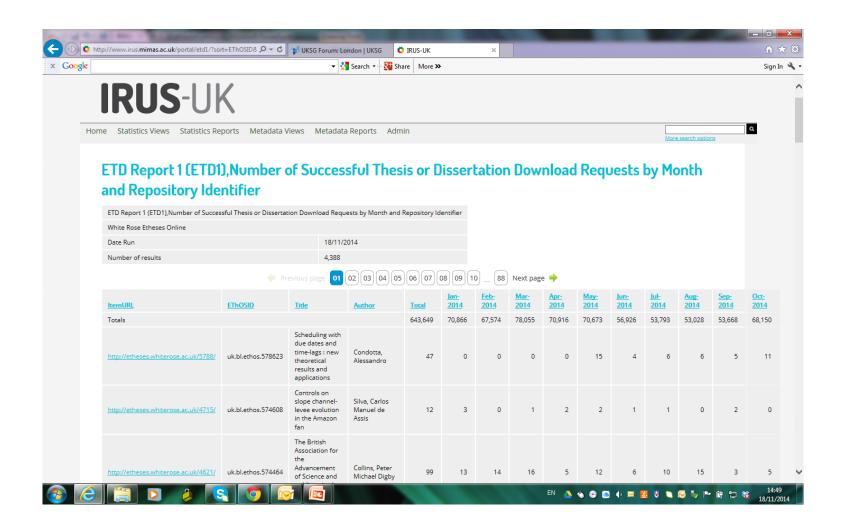
## **IRUS-UK: Ingest Statistics**



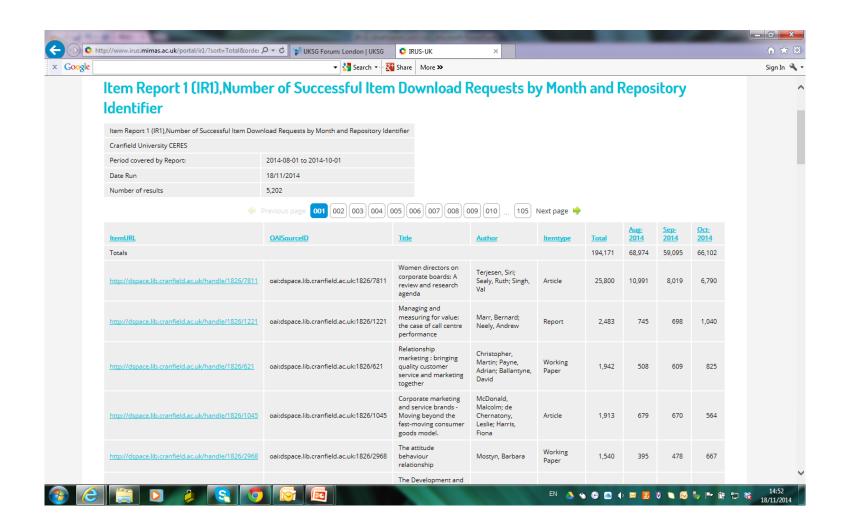
# **IRUS-UK: Repository Report 1**



# IRUS-UK: eThesis/Diss' Report 1



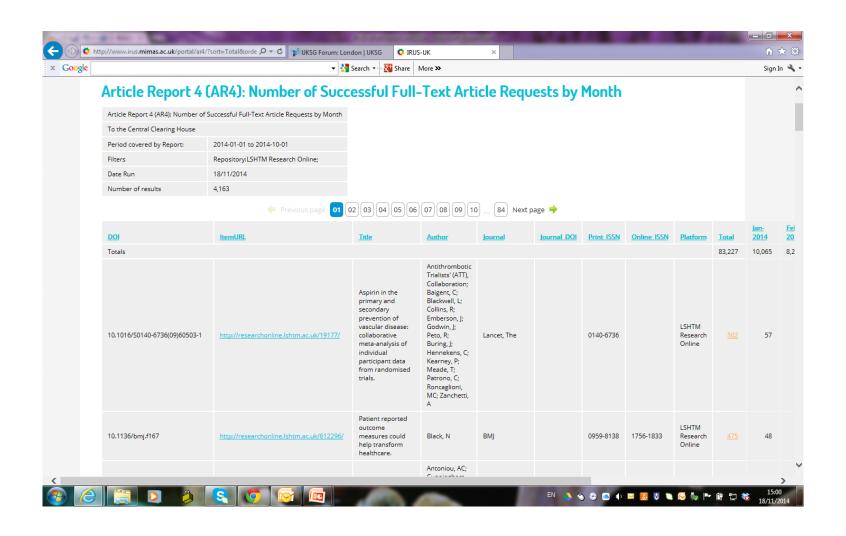
#### **IRUS-UK: Item Report 1**



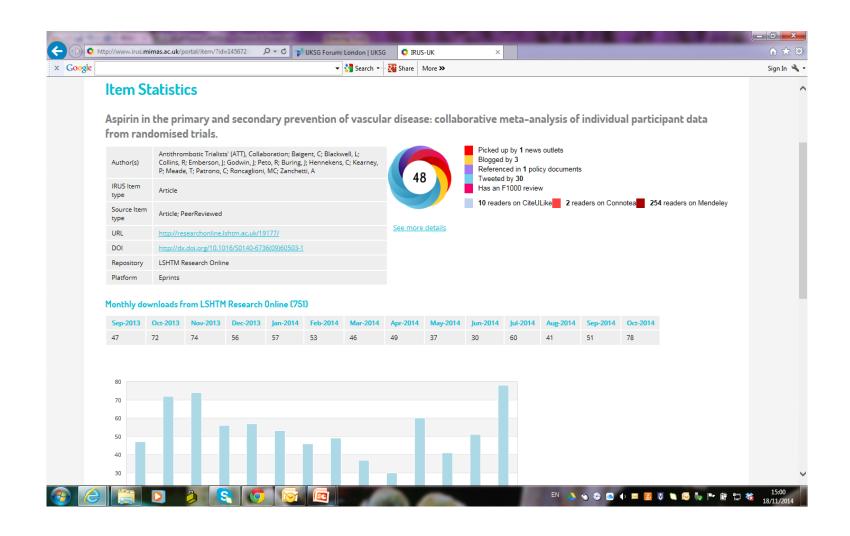
## **IRUS-UK: Item Report 2**



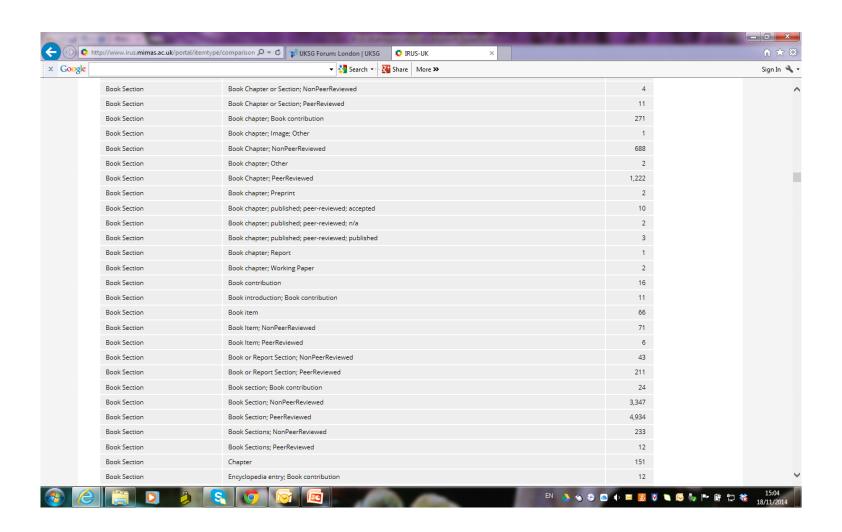
# **IRUS-UK: Article Report 4**



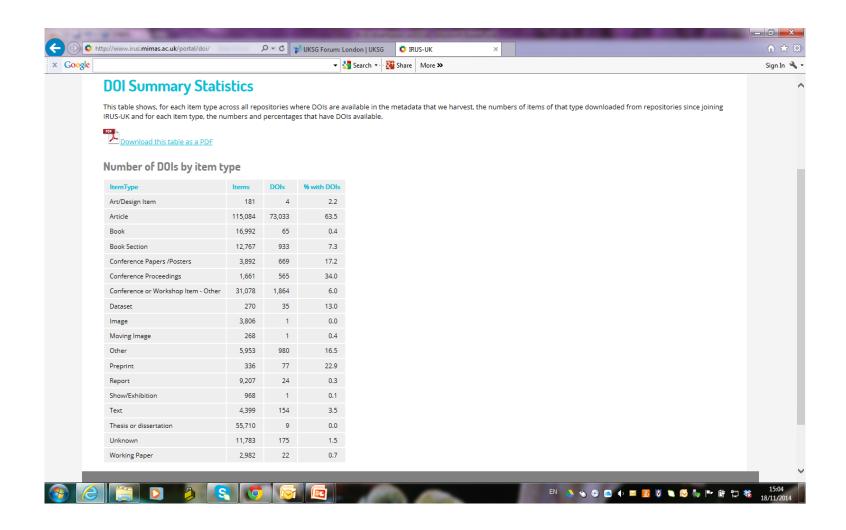
#### **IRUS-UK: Items Statistics**



# **IRUS-UK: Item Type mappings**



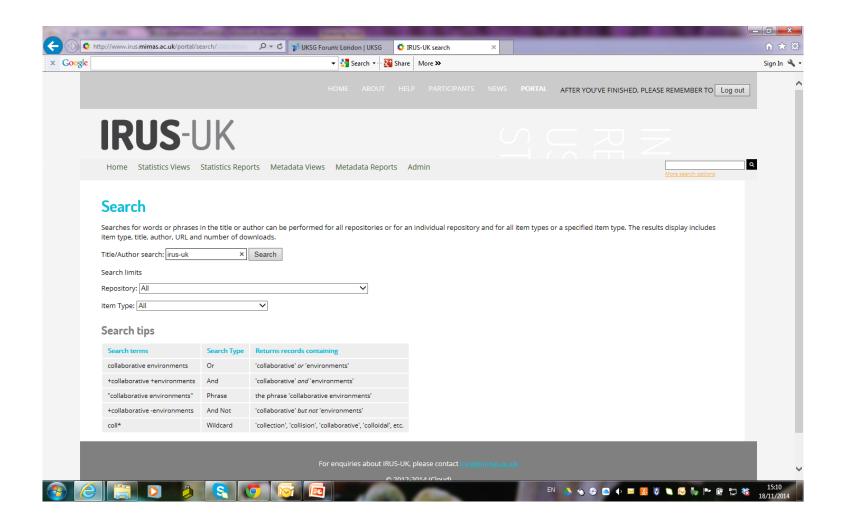
# **IRUS-UK: DOI (found) Summary**



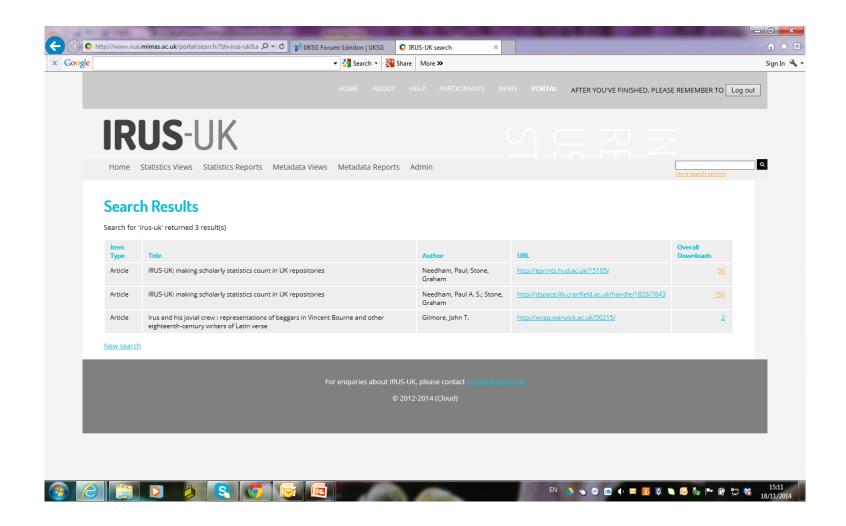
# **IRUS-UK: Duplicate DOI Report**



#### **IRUS-UK: Search**



#### **IRUS-UK: Search results**



## IRUS-UK: Best features (our survey said)

- Reliable, authoritative statistics
  - COUNTER compliant statistics
  - Filtering of robots
  - IR1 used for reporting to SCONUL
  - Can repurpose for other reporting mechanisms and different audiences
- Ability to benchmark against others
- Comparison of download statistics across participating IRs
- Number (and range across the sector) of participating institutions
- Easy to use
  - Easy to setup and use
  - User friendly way to get stats
  - 96% find the current user interface clear
  - 96% find the current functionality clear to understand



#### **IRUS-UK: Value**

- An altmetric that no-one else is providing yet!
- Demonstrates the importance of repositories in disseminating scholarly outputs
- Uniquely positioned to act as an intermediary between UK repositories and other actors:
  - Funders
  - Publishers
  - National shared services
  - Etc.
- 2014 IRUS-UK user survey:
  - 68% reported that IRUS-UK has improved statistical reporting
  - 66% reported that IRUS-UK saves time collecting statistics
  - 66% reported that IRUS-UK enables reporting previously unable to do
  - 83% hope to use IRUS-UK for benchmarking



#### **Contacts & Information**

- If you wish to contact IRUS-UK:
  - irus@mimas.ac.uk
  - @IRUSNEWS
- Project web site:
  - http://irus.mimas.ac.uk/

"The set up was quick and painless, which is always a delight!"
"Consistent collection of statistics without me having to do it!"

