

# IRUS-UK

Making scholarly statistics count in  
UK repositories

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# IRUS-UK

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- ◉ Funded by JISC as part of UK RepositoryNet+
- ◉ Lead by Mimas
- ◉ Primary Project Team Members:
  - Mimas
  - Cranfield University
  - EvidenceBase, BCU
- ◉ IRUS:  
Institutional Repository Usage Statistics

# IRUS-UK: history

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- Emerged as an outcome of PIRUS2
  - Publisher and Institution Repository Usage Statistics project
  - Aimed to develop a global standard to enable the recording, reporting and consolidation of online usage statistics for individual journal articles hosted by Institutional Repositories, Publishers and others
  - Proved it was technically feasible, but thwarted by organisational and political issues
  - However, crisis/opportunity... we now knew it was possible to...

# IRUS-UK: aim

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- Enable UK IRs to share/expose usage statistics based on a global standard – COUNTER
  - Produced on the same basis as publishers
  - Filtered to remove robots and double clicks
  - Comparable
  - Reliable
  - Trustworthy
  - Authoritative

# IRUS-UK: objectives

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- ◉ Collect raw usage data from UK IRs for all item types within repositories
  - Downloads not record views
- ◉ Process those raw data into COUNTER-compliant statistics
- ◉ Return those statistics back to the originating repositories for their own use

# IRUS-UK: objectives

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- Give JISC (and others) a nation-wide picture of the overall use of UK repositories
  - demonstrate their value and place in the dissemination of scholarly outputs
- Offer opportunities for benchmarking
- Act as an intermediary between UK repositories and other agencies
  - e.g. global central clearinghouse, national shared services, OpenAIRE

# IRUS-UK: gathering data

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- Considered 2 scenarios for gathering data
  - ‘Tracker’ code
    - a server-side ‘Google Analytics’ for item downloads
    - Pushes metadata to a third-party server as OpenURL Key/Value strings
  - OAI-PMH harvesting
    - Used to by third parties to ‘pull’ metadata from repositories
    - Repurposed to expose usage events as OpenURL Context Objects
- Opted for the Tracker
  - Just easier
  - Plugins/patches available for DSpace and Eprints

# IRUS-UK: gathering data

- IRUS logs receive OpenURL strings

- 81.17.244.212 - - [06/Jul/2012:00:00:00 +0100]  
"HEAD /counter/?url\_ver=Z39.88-2004&url\_tim=2012-07-05T22%3A59%3A59Z&req\_id=urn%3Aip%3A86.15.47.114&req\_dat=Mozilla%2F5.0+(iPhone%3B+U%3B+CPU+iPhone+OS+5\_1\_1+like+Mac+OS+X%3B+en-us)+AppleWebKit%2F534.46.0+(KHTML%2C+like+Gecko)+CriOS%2F19.0.1084.60+Mobile%2F9B208+Safari%2F7534.48.3&rft.artnum=oai%3Aeprints.hud.ac.uk%3A8795&svc\_format=application%2Fpdf&rfr\_id=eprints.hud.ac.uk HTTP/1.1" 200 - "-" "EPrints 3.2.2 (Chocolate Cake) [Born on 2010-05-25]"



# IRUS-UK: processing data

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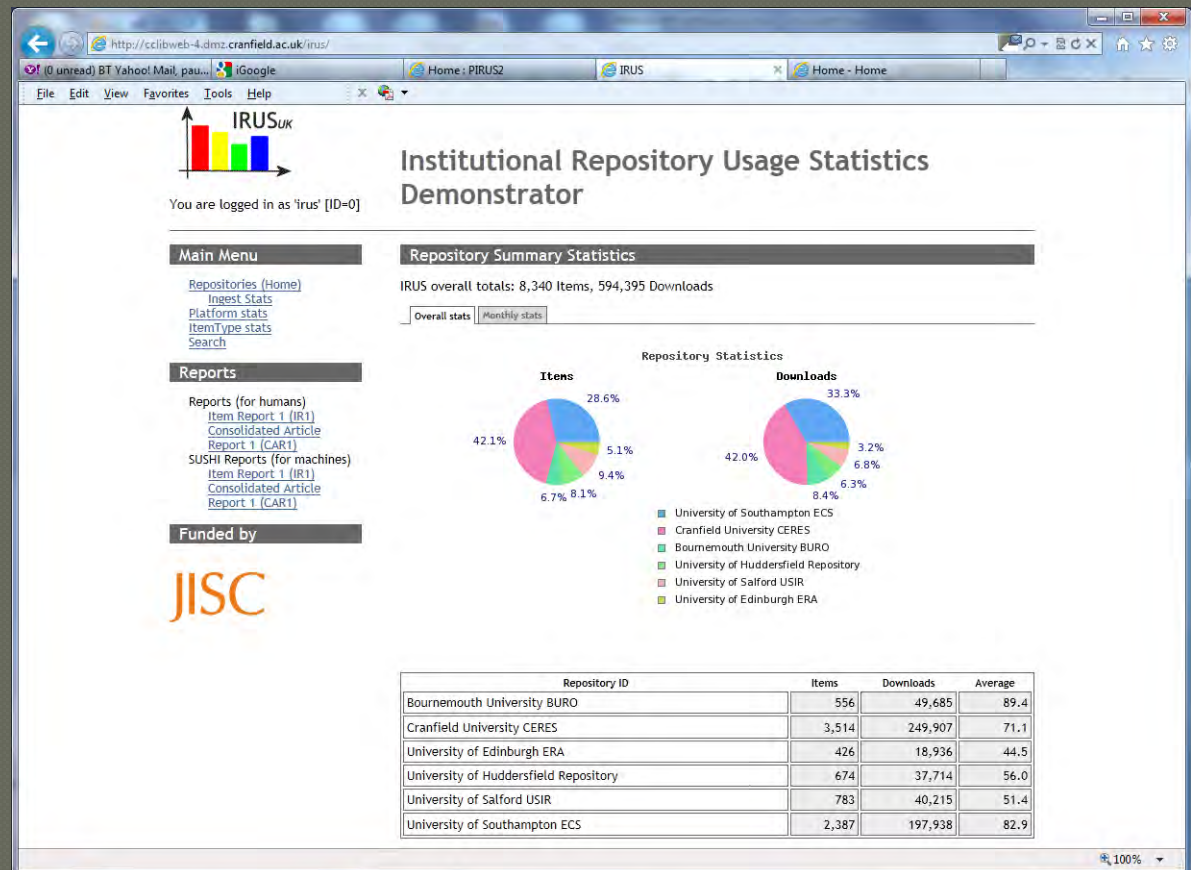
- Logs are processed daily
- Step 1: Perl script parses the logs
  - Processes entries from recognised IRs
  - Sorts and filters entries following COUNTER rules
  - Consolidates daily accesses for each item
  - Outputs to intermediate file
- Step 2: Perl script parses intermediate file
  - Looks up each item in the IRUS DB
    - If item is unknown to the system uses an OAI GetRecord to retrieve and add item metadata to DB
  - Updates DB with new statistics

# IRUS-UK: showing statistics

## IRUS Portal – overall stats

### Notes:

- Screenshot is from earlier demonstrator
- Current portal is in early development stage
- Who can see what – still to be decided

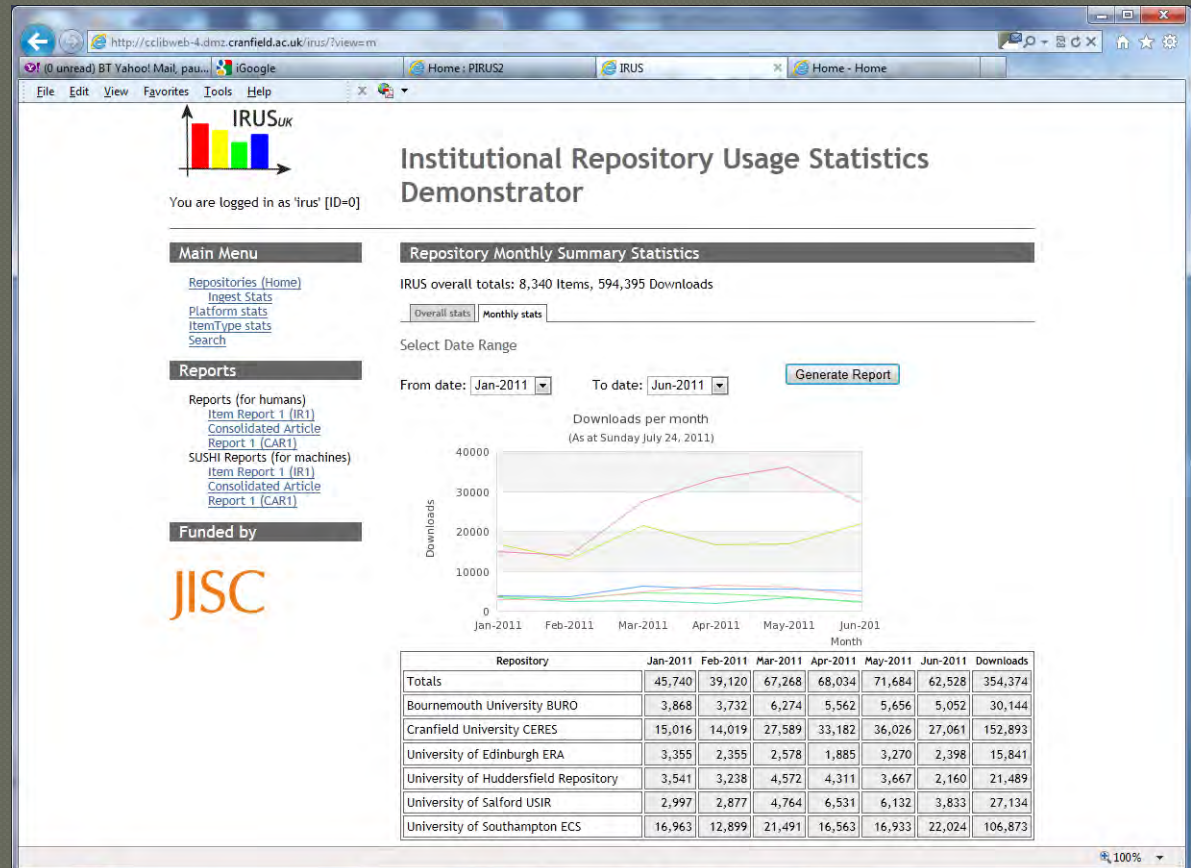


# IRUS-UK: showing statistics

## IRUS Portal – monthly stats

### Notes:

- IRUS will also produce daily stats
- Further views into the DB – still to be decided



# IRUS-UK: getting statistics out

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- Various reports will be available to Institutions
  - For humans, downloads as CSV/Excel spreadsheet files
    - Monthly and daily granularity
  - For machines, harvesting via SUSHI
    - Monthly granularity
- Usage statistics for incorporation into Repositories
  - Via an API/Web Service
    - details yet to be determined

# IRUS-UK: where we are now

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- ◉ Pioneers sending data to IRUS
  - Bournemouth, City, Huddersfield (Eprints)
  - Cranfield (Dspace)
  - Others in the pipeline (inc. Leicester, Salford)
- ◉ We're working on:
  - Ingest scripts
  - Portal UI – basics
  - Spreading the word about IRUS

# IRUS-UK: next steps

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- ◉ More of what we're already doing...
- ◉ Community Engagement
  - Getting more IRs on-board
  - Defining and evaluating user requirements
    - including surveys, interviews, monitoring feedback, etc.
- ◉ Processes to support
  - institutional liaison, data collection, monitoring and responding to future requirements, ensuring interoperability
  - development and production environments including monitoring, back-up, authentication and archiving policies and processes
- ◉ Formal application for COUNTER-compliance

# IRUS-UK

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- ◉ Project web site:
  - <http://www.irus.mimas.ac.uk/>
- ◉ Please contact our helpdesk [irus@mimas.ac.uk](mailto:irus@mimas.ac.uk)
  - if you are a UK repository wishing to participate in IRUS
  - You just want more info...
- ◉ Thank you!