



IRUS-UK

Making scholarly statistics count in UK repositories

Ross MacIntyre, Mimas, The University of Manchester
April 2013

IRUS-UK

- Funded by Jisc as part of UK RepositoryNet+
- Project Team Members:
 - Mimas, The University of Manchester – Project & Service Management & Host
 - Cranfield University - Development
 - EvidenceBase, Birmingham City University – User Engagement & Evaluation
- Outcome of PIRUS2 (Publisher and Institution Repository Usage Statistics)
 - <http://www.cranfieldlibrary.cranfield.ac.uk/pirus2/>
 - Aimed to 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'
- IRUS-UK: Institutional Repository Usage Statistics – UK
 - Enable UK IRs to share/expose usage statistics based on a global standard – COUNTER

IRUS-UK: aim & objectives

- Collect raw usage data from UK IRs for *all item types* within repositories
 - Downloads not record views
 - Not just articles
- Process those raw data into COUNTER-compliant statistics
- Return those statistics(+) back to the originating repositories for their own use
- Give Jisc (and others) a wider picture of the overall use of UK repositories
 - demonstrate their value and place in the dissemination of scholarly outputs
- Offer opportunities for benchmarking/profiling/reporting/
- Act as an intermediary between UK repositories and other agencies
 - e.g. global central clearinghouse, national shared services, OpenAIRE

IRUS-UK: gathering data

- Considered 2 scenarios for gathering data
 - Push: 'Tracker' code
 - Whenever a download occurs the repository 'pings' the IRUS-UK server with details about the download
 - Pushes metadata to a third-party server as OpenURL Key/Value strings
 - Pull: OAI-PMH harvesting
 - When a download occurs the details of the event are stored on the local repository server
 - Repurposed to expose usage events as OpenURL Context Objects
 - IRUS-UK periodically harvests the download data using the OAI-PMH protocol
- Opted for the Tracker
 - Just easier - but minimise data pushed
 - Patches for Dspace (1.8.x and 3.x) and Plug-in for Eprints (3.3.x)
 - Implementation guidelines for Fedora

IRUS-UK: Tracker OpenURL strings

- The OpenURL key/value pairs
 - 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

IRUS-UK: processing data

- 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 add item with (most) metadata “unknown”
 - Updates DB with new statistics (for both ‘known’ & ‘known unknowns’)
- Step 3: Obtain “unknown” metadata
 - For the ‘known unknowns’ uses an OAI GetRecord to retrieve metadata from Source IR
 - Updates the metadata to DB

IRUS-UK: Overall Summary

IRUS-UK

HOME ABOUT FAQ PARTICIPANTS NEWS PORTAL

MAIN MENU

- Home
- Repository stats
- Platform stats
- ItemType stats
 - IRUS vs IR comparison
- DOI stats
- Search
- Ingest Stats

REPORTS

- Reports (for humans)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)
- SUSHI Reports (for machines)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)

HOME

OVERALL SUMMARY AS AT 20TH MAR 2013

At a glance

Repositories	16
Items	69,599
Downloads	2,245,093
Downloads up to Feb-2013	1,903,190
Downloads this month	341,903

For enquiries about RepNet, please contact support@repositorynet.ac.uk

If you are a UK repository wishing to participate in IRUS-UK, please contact irus@mimas.ac.uk

© 2012-2013

EN 11:51 22/03/2013

IRUS-UK: Repository Totals

The screenshot shows the IRUS-UK website interface. The browser address bar displays the URL: <https://www.jusp.mimas.ac.uk/secure/irus/repository/>. The page features a main menu on the left, repository statistics in the center, and a taskbar at the bottom.

IRUS-UK

MAIN MENU

- Home
- Repository stats
- Platform stats
- ItemType stats
- IRUS vs IR comparison
- DOI stats
- Search

INGEST STATS

REPORTS

- Reports (for humans)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)
- SUSHI Reports (for machines)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)

REPOSITORY STATISTICS

SUMMARY BY REPOSITORY

Repository	From Jul-2012 to Feb-2013		This month, so far...		Total Downloads
	Items	Downloads	Items	Downloads	
Bournemouth University BURO	6,737	210,079	1,946	23,005	233,084
CADAIIR - Aberystwyth University open access repository	2,223	70,389	1,132	14,796	85,185
City Research Online	1,525	45,947	1,042	6,541	52,488
Cranfield University CERES	4,624	404,909	3,788	40,803	445,712
Greenwich Academic Literature Archive - GALA	960	16,084	647	3,907	19,991
LSE Research Online	7,614	287,020	6,208	59,707	346,727
NERC Open Research Archive - NORA	6,843	145,264	4,577	30,254	175,518
Northumbria Research Link (NRL)	963	3,593	1,472	8,924	12,517
ORO: Open University Open Research Online	5,714	104,477	4,586	46,904	151,381
OpenAIR @ RGU	577	7,572	404	2,038	9,610
SRO: Sussex Research Online	1,184	11,409	1,095	6,685	18,094
UEA Digital Repository	0	0	694	3,051	3,051
University of Huddersfield Repository	4,417	150,069	2,890	14,909	164,978
University of Reading CentAUR	2,604	32,131	1,093	5,703	37,834
University of Salford USIR	8,618	326,576	3,909	34,941	361,517
WRAP: Warwick Research Archive Portal	6,429	87,671	6,215	39,735	127,406

IRUS-UK: Item Types Totals

MAIN MENU

- Home
- Repository stats
- Platform stats
- ItemType stats
- IRUS vs IR comparison
- DOI stats
- Search

INGEST STATS

REPORTS

- Reports (for humans)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)
- SUSHI Reports (for machines)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)

ITEMTYPE SUMMARY STATISTICS

SUMMARY BY IRUS ITEM TYPE

IRUS ItemType	From Jul-2012 to Feb-2013		This month, so far...		Total Downloads
	Items	Downloads	Items	Downloads	
Article	21,172	688,930	15,222	128,025	816,955
Book	962	36,164	579	6,728	42,892
Book Section	3,399	127,259	2,177	23,716	150,975
Conference or Workshop Item	8,216	193,161	5,238	28,805	221,966
Dataset	15	447	11	71	518
Exam Paper	4,025	25,187	1,148	2,903	28,090
Image	826	3,868	222	468	4,336
Learning Object	261	8,333	115	1,754	10,087
Manual	3	62	2	4	66
Other	6,614	276,751	4,929	53,169	329,920
Patent	27	139	16	28	167
Presentation	63	926	40	193	1,119
Report	4,034	84,061	2,446	16,165	100,226
Thesis or dissertation	7,291	379,000	6,735	63,435	442,435
Unclassified	8	9	1	1	10
Unknown	764	3,731	249	1,360	5,091
Website	1,759	15,889	1,163	4,056	19,945
Working Paper	1,593	59,273	1,405	11,022	70,295

IRUS-UK: Item Type <->IR: Item Type

The screenshot shows the IRUS-UK website interface. The browser address bar displays the URL: <https://www.jusp.mimas.ac.uk/secure/irus/itemtype/comparison/>. The page title is "COMPARISON OF IRUS ITEM TYPES AND REPOSITORY ITEM TYPES".

The left sidebar contains navigation links: "Item type stats", "IRUS vs IR comparison", "DOI stats", "Search", "Ingest Stats", and a "REPORTS" section with sub-links for "Reports (for humans)" and "SUSHI Reports (for machines)".

The main content area displays a table comparing IRUS item types with repository item types and their respective counts.

IRUS item type	Repository item type	Number of items
Article	Article	1,438
Article	Article (Literature review, Editorial)	11
Article	Article; Accepted Version	1
Article	Article; Audio file; Postprint	1
Article	Article; NonPeerReviewed	1,557
Article	Article; PeerReviewed	14,571
Article	Audio file; Postprint	1
Article	Journal article	254
Article	Journal Article; NonPeerReviewed	3,281
Article	Journal Article; PeerReviewed	2,603
Article	Journal Item; NonPeerReviewed	45
Article	Multimedia; Article	1
Article	Newspaper/Magazine Article; NonPeerReviewed	4
Article	Postprint	241
Article	Postprint; Recording, oral	2
Article	Publication - Article; NonPeerReviewed	5
Article	Publication - Article; PeerReviewed	80
Article	Submitted Journal Article; NonPeerReviewed	52
Article	Text; Article (Journal)	60
Article	Text; other journal paper	15
Article	Text; published journal paper	1
Article	Text; refereed published journal article	1
Article	Text; refereed published journal paper	428
Book	Authored Book; NonPeerReviewed	5
Book	Authored Book; PeerReviewed	34

IRUS-UK: DOI Summary Stats

The screenshot shows the IRUS-UK website interface. The browser address bar displays <https://www.jusp.mimas.ac.uk/secure/irus/doi/>. The page layout includes a teal sidebar menu on the left, a main content area with a teal header, and a Windows taskbar at the bottom.

MAIN MENU

- Home
- Repository stats
- Platform stats
- ItemType stats
 - IRUS vs IR comparison
- DOI stats
- Search
- Ingest Stats

REPORTS

- Reports (for humans)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)
- SUSHI Reports (for machines)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)

DOI SUMMARY STATISTICS

NUMBER OF DOIS BY ITEM TYPE

ItemType	Items	DOIs	% with DOIs
Article	24,653	9,970	40.4
Book	1,115	14	1.3
Book Section	4,092	92	2.2
Conference or Workshop Item	9,918	245	2.5
Other	7,382	4	0.1
Presentation	72	2	2.8
Report	4,149	34	0.8
Working Paper	1,651	1	0.1

NUMBER OF ARTICLE DOIS BY REPOSITORY

Repository	Articles	DOIs	% with DOIs
Bournemouth University BURO	5,019	185	3.7
CADAIIR - Aberystwyth University open access repository	505	140	27.7
City Research Online	880	678	77.0
Cranfield University CERES	1,696	1,368	80.7
Greenwich Academic Literature Archive - GALA	211	135	64.0
LSE Research Online	1,766	6	0.3
NERC Open Research Archive - NORA	2,037	274	13.5
Northumbria Research Link (NRL)	682	443	65.0
ORO: Open University Open Research Online	2,638	22	0.8
OpenAIR @ RGU	254	165	65.0
SRO: Sussex Research Online	610	330	54.1

IRUS-UK: Title/Author Search

IRUS-UK search x IRUS UK_0 x

← → ↻ <https://www.jusp.mimas.ac.uk/secure/irus/search/?st=irus&action=search> ☆ ☰

HOME ABOUT FAQ PARTICIPANTS NEWS PORTAL

IRUS-UK

STATS REPOS

MAIN MENU

- Home
- Repository stats
- Platform stats
- ItemType stats
 - IRUS vs IR comparison
- DOI stats
- Search
- Ingest Stats

REPORTS

- Reports (for humans)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)
- SUSHI Reports (for machines)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)

SEARCH RESULTS

Search for 'irus' returned 2 result(s)

Item Type	Title	Author	URL	Overall Downloads
Article	IRUS-UK: making scholarly statistics count in UK repositories	Needham, Paul; Stone, Graham	http://eprints.hud.ac.uk/15105/	13
Article	IRUS-UK: making scholarly statistics count in UK repositories	Needham, Paul A. S.; Stone, Graham	http://dspace.lib.cranfield.ac.uk/handle/1826/7643	19

[New search](#)

For enquiries about RepNet, please contact support@repositorynet.ac.uk

If you are a UK repository wishing to participate in IRUS-UK, please contact irus@mimas.ac.uk

© 2012-2013

EN 12:02 22/03/2013

IRUS-UK: Ingest Summary Stats

IRUS-UK

INGEST SUMMARY STATISTICS

Repository	RawDataIn	COUNTER Robots	IRUS-UK Robots	DoubleClicks	FilteredDataOut
Bournemouth University BURO	4,108,851	3,783,650	48,067	44,050	233,084
CADAIIR - Aberystwyth University open access repository	150,574	0	48,385	17,004	85,185
City Research Online	118,692	47,829	10,600	7,775	52,488
Cranfield University CERES	836,874	306,496	4,884	79,782	445,712
Greenwich Academic Literature Archive - GALA	47,553	20,493	2,790	4,279	19,991
LSE Research Online	1,205,894	116,978	729,294	12,895	346,727
NERC Open Research Archive - NORA	397,706	186,112	21,313	14,763	175,518
Northumbria Research Link (NRL)	26,184	10,082	537	3,048	12,517
ORO: Open University Open Research Online	402,155	222,793	4,314	23,667	151,381
OpenAIR @ RGU	14,386	3,132	0	1,644	9,610
SRO: Sussex Research Online	37,130	5,760	1,177	12,099	18,094
UEA Digital Repository	4,166	817	53	245	3,051
University of Huddersfield Repository	391,446	178,280	16,413	31,775	164,978
University of Reading CentAUR	84,709	36,597	7,220	3,058	37,834
University of Salford USIR	756,989	278,148	29,658	87,666	361,517
WRAP: Warwick Research Archive Portal	491,346	306,025	39,165	18,750	127,406

IRUS-UK: IR1 Report LSE Jan-Feb 2013

IRUS-UK

HOME ABOUT FAQ PARTICIPANTS NEWS PORTAL

IRUS-UK

ITEM REPORT 1 (IR1), NUMBER OF SUCCESSFUL ITEM DOWNLOAD REQUESTS BY MONTH AND REPOSITORY IDENTIFIER

Item Report 1 (IR1), Number of Successful Item Download Requests by Month and Repository Identifier

LSE Research Online

Date Run 22/03/2013

Sort report by: Downloads Descending Update

ID	Title	Jan-2013	Feb-2013	Downloads
Totals		74675	82454	157129
http://eprints.lse.ac.uk/29022/	Managing non-profit organisations: towards a new approach	1035	727	1762
http://eprints.lse.ac.uk/46297/	Reading the riots: investigating England's summer of disorder	747	920	1667
http://eprints.lse.ac.uk/27072/	Taking risky opportunities in youthful content creation: teenagers' use of social networking sites for intimacy, privacy and self-expression	712	827	1539
http://eprints.lse.ac.uk/3520/	H.L.A. Hart's rule of law: the limits of philosophy in historical perspective	891	251	1142
http://eprints.lse.ac.uk/9576/	Policing ethnic minority communities	600	511	1111
http://eprints.lse.ac.uk/829/	Consequences of the psychological contract for the employment relationship: a large scale survey	477	589	1066
http://eprints.lse.ac.uk/20381/	The political economy of development in India since independence	432	509	941
http://eprints.lse.ac.uk/44095/	Relationships between media and audiences: prospects for audience reception	456	441	897

IRUS-UK: CAR1 Report Jan-Feb 2013

MAIN MENU

- Home
- Repository stats
- Platform stats
- ItemType stats
- IRUS vs IR comparison
- DOI stats
- Search

Ingest Stats

REPORTS

- Reports (for humans)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)
- SUSHI Reports (for machines)
 - Item Report 1 (IR1)
 - Consolidated Article Report 1 (CAR1)

CONSOLIDATED ARTICLE REPORT 1 (CAR1), NUMBER OF SUCCESSFUL MONTHLY ARTICLE DOWNLOAD REQUESTS BY DOI AND REPOSITORY IDENTIFIER

Consolidated Article Report 1 (CAR1), Number of Successful Monthly Article Download Requests by DOI and Repository Identifier

To the Central Clearing House

Date Run: 22/03/2013

Sort report by: Downloads | Descending | Update

DOI	SourceID	Repository	Platform	Jan-2013	Feb-2013	Downloads
Totals for all articles				56137	62990	119127
http://dx.doi.org/10.1080/14780880802314304	http://wrap.warwick.ac.uk/3488/	WRAP: Warwick Research Archive Portal	Eprints	861	803	1664
http://dx.doi.org/10.1080/09652540701320894	http://dspace.lib.cranfield.ac.uk/handle/1826/3041	Cranfield University CERES	DSpace	466	402	868
http://dx.doi.org/10.1016/S0019-8501(99)00110-8	http://dspace.lib.cranfield.ac.uk/handle/1826/2658	Cranfield University CERES	DSpace	377	375	752
http://dx.doi.org/10.1007/s10551-007-9490-5	http://dspace.lib.cranfield.ac.uk/handle/1826/3312	Cranfield University CERES	DSpace	316	431	747

Contacts & Information

- For general enquiries, please contact
 - support@repositorynet.ac.uk
- If you wish to contact IRUS-UK directly, please contact
 - irus@mimas.ac.uk
- Project web site:
 - <http://www.irus.mimas.ac.uk/>
- IRUS-UK webinars:
 - 22 May 14.00 – Aimed at Repository Technical Managers
 - 17 July 14.00 – ‘End of Project’
- Thank you!