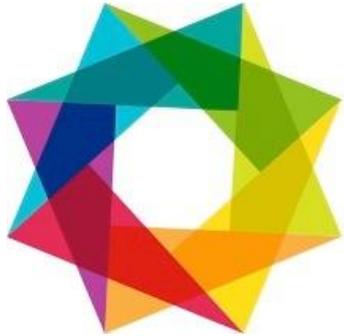


Jisc



IRUS-UK

COUNTER
CONSISTENT CREDIBLE COMPARABLE

IRUS-UK: standardised institutional repository usage statistics

Paul Needham, IRUS-UK and COUNTER

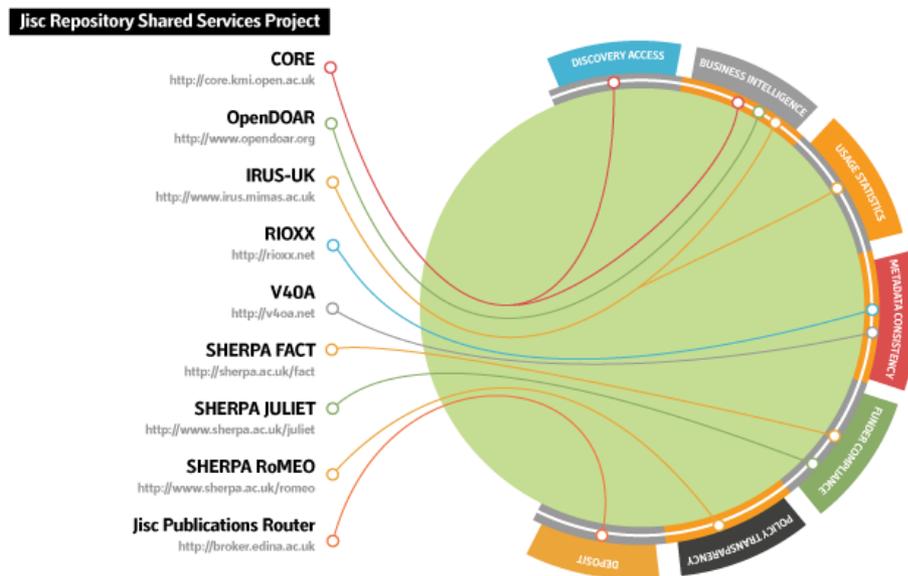
Two Approaches for Accurately Counting IR Usage: RAMP and IRUS-UK
CARL and COAR Webinar

Tuesday, October 3, 1:00-2:00 p.m. ET (19:00-20:00 CEST)

Who is responsible for IRUS-UK?

- Funded by Jisc
- Team Members:
 - Jisc – Service Management & Host
 - Cranfield University – Service Development & Maintenance
 - Evidence Base, Birmingham City University – User Engagement & Evaluation

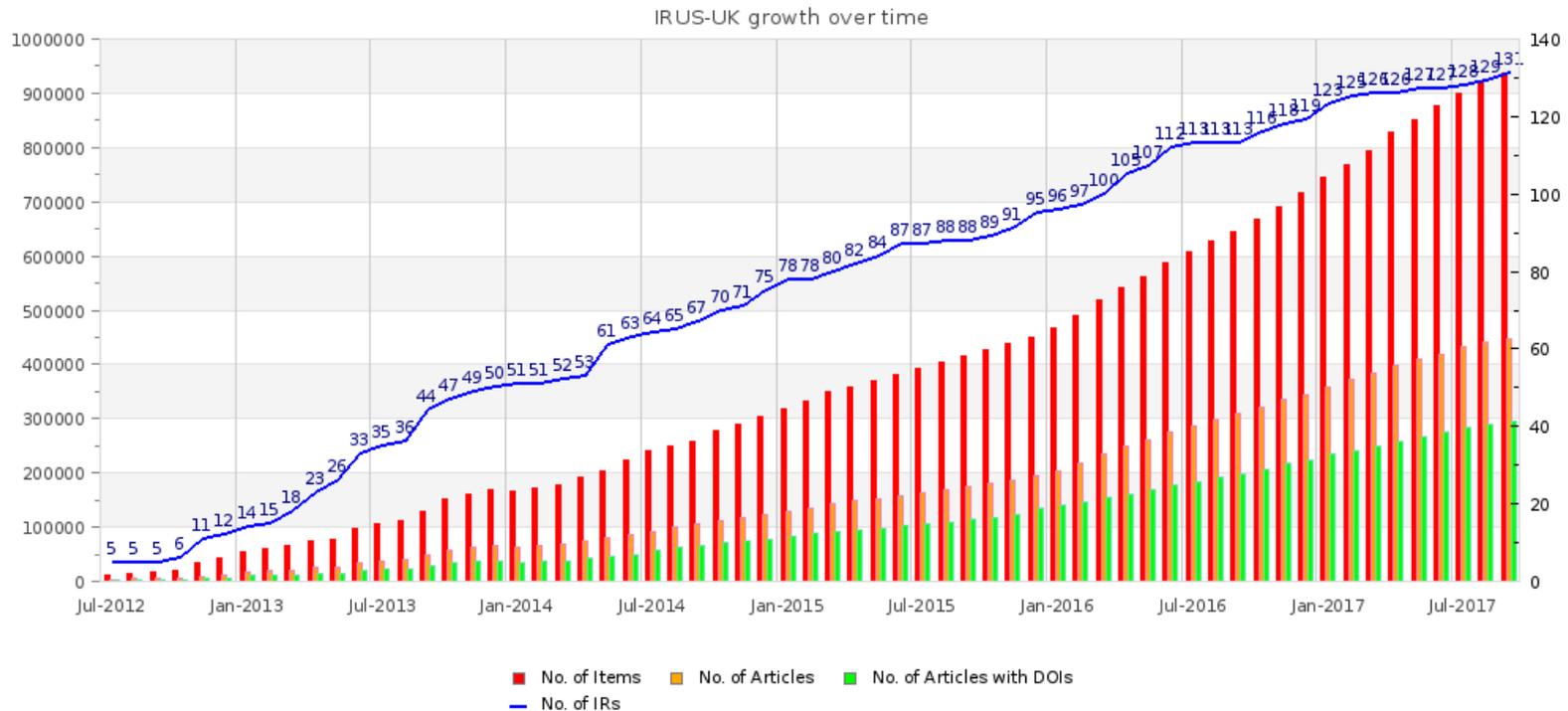
Bringing together key repository services to deliver a connected national infrastructure to support OA



What is IRUS-UK?

A national aggregation service for UK Institutional Repository Usage Statistics:

- Collects raw download data from UK IRs for *all item types* within repositories
- Processes raw data into COUNTER-conformant statistics - so produced on the same basis as 'traditional' scholarly publishers



About COUNTER

- **Counting Online Usage of Networked Electronic Resources**
 - an international initiative serving librarians, publishers and intermediaries
 - setting standards that facilitate the recording and reporting of online usage statistics
 - consistent, credible and comparable
- **COUNTER Codes of Practice:**
 - [Release 4 of the COUNTER Code of Practice for e-Resources](#)
 - Books, databases , journals and multimedia content
 - [Release 1 of the COUNTER Code of Practice for Articles](#)
 - Journal articles
- **The Codes specify:**
 - How raw data should be processed into statistics
 - How statistics reports should be formatted and delivered

The Tracker Protocol

- To enable repositories to participate in IRUS-UK a small piece of code is added to repository software, which employs the ‘Tracker Protocol’
 - <http://irus.mimas.ac.uk/documents/TrackerProtocol-V3-2017-03-22.pdf>
 - Patches for DSpace (4.x,5.x,6.x) and Plug-ins for Eprints (3.2-3.3.x)
 - Implementation guidelines for Fedora
 - Implementations developed for PURE portal and figshare
- The Tracker Protocol was devised in collaboration with and is endorsed by COUNTER
- Gathers basic data for each raw download and sends to IRUS-UK server
 - Raw download data is stored in daily logfiles before being processed and ingested into IRUS-UK database

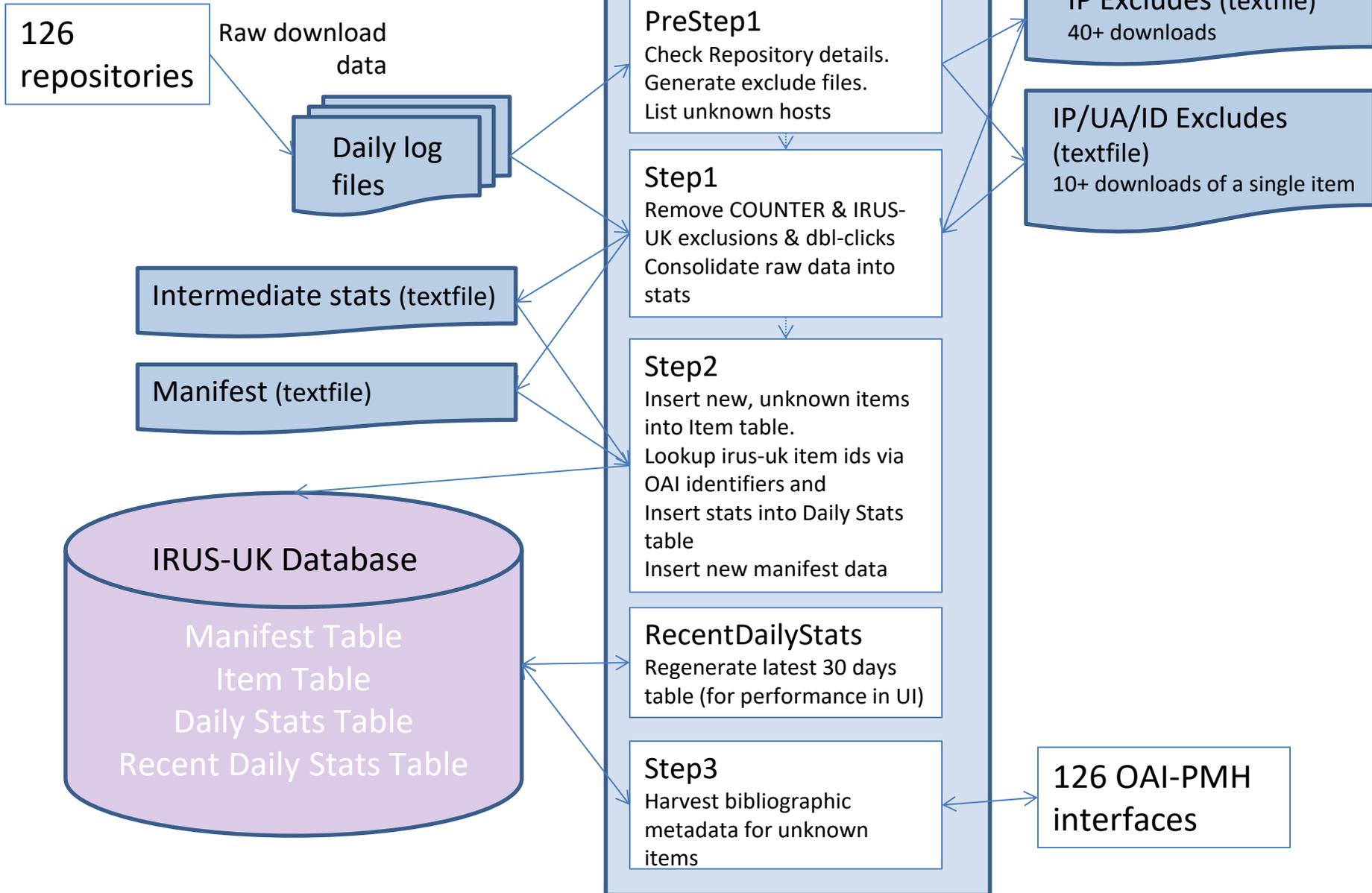
IRUS-UK ingest procedures

- The IRUS-UK daily ingest follows processing rules specified in the COUNTER Code of Practice
- Processes entries from recognised IRs
- Sorts and filters entries following COUNTER rules to remove robot entries using the [COUNTER User Agent Exclusion List](#)
 - regarded as a minimum requirement for excluding bots, etc.
- Filters entries using additional IRUS-UK filters
- Filters entries by applying the COUNTER 30 second double-click rule
- Consolidates raw usage data for each item into daily statistics
- At the end of each month, daily statistics are consolidated into monthly statistics

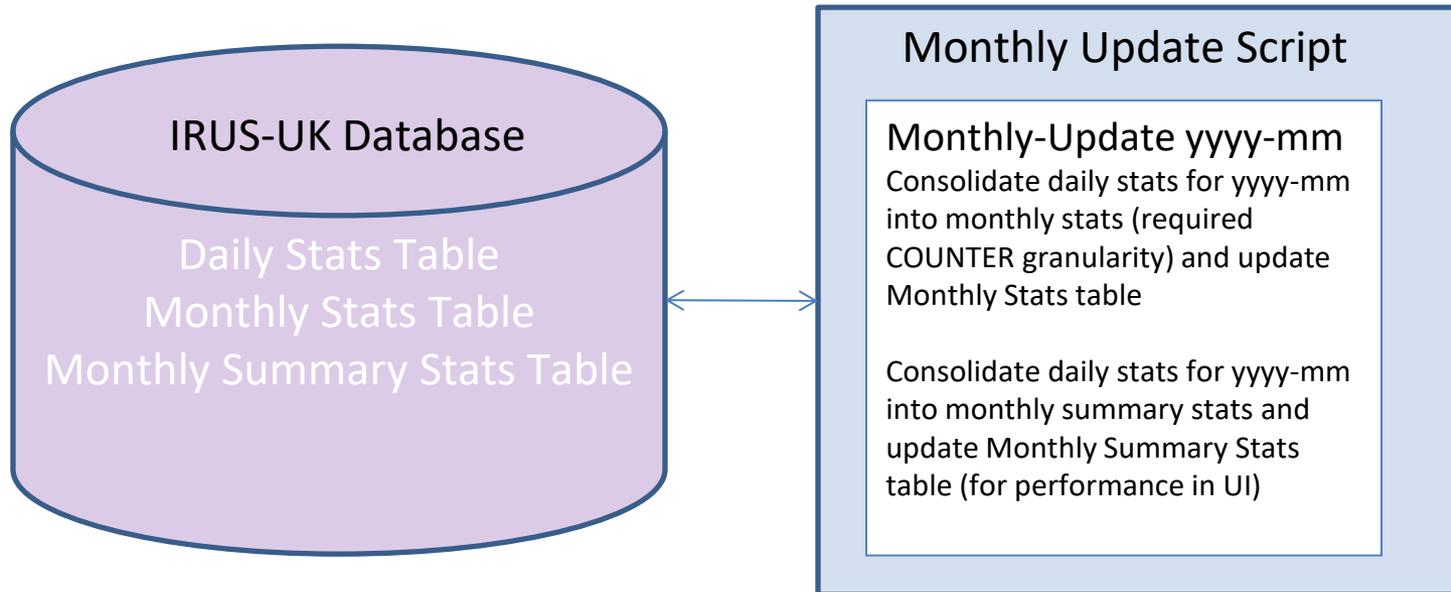
Robots & rogue usage – IRUS-UK current approach

- As stated, the COUNTER Robot Exclusion list is a minimum requirement for eliminating robots and rogue usage
 - It worked well for traditional scholarly publishers with resources behind a subscription barrier
 - As we move to an OA world and newer players – repositories – more needs to be done
- So in addition IRUS-UK:
 - excludes several IP ranges that are associated with some known robots and spiders, which don't identify themselves in their User Agent string
 - And based on several years of empirical evidence:
 - exclude downloads from IP addresses with 40+ downloads in a day
 - Exclude downloads from IP address/User Agent where a single item is downloaded 10+ times a day
 - Though we are aware that more can still be done
- More on robots later, but next a diagrammatic summary of the ingest . . .

IRUS-UK Daily Ingest



IRUS-UK Monthly Update



Viewing/retrieving IRUS-UK statistics

- Web User Interface - The IRUS-UK Portal
 - Access currently behind Shibboleth authentication/authorisation
 - Wide range of views, slicing and dicing stats from the IRUS-UK database
 - Reports available for download as TSV/CSV/Excel spreadsheet files
- SUSHI service
 - XML SOAP service
 - for more info see: <http://www.niso.org/workrooms/sushi/>
- SUSHI Lite API
 - Under development by the NISO SUSHI Lite Technical Report Working Group (http://www.niso.org/workrooms/sushi/sushi_lite/)
 - Allows retrieval of stats reports and snippets as JSON to be embedded into Repository (and other) web pages, or ingested into other services
 - Example client: http://www.irus.mimas.ac.uk/api/sushilite/v1_7/Client/

IRUS-UK: Home



IRUS-UK

Last update: 1st Oct 2017

[Home](#) [Statistics Reports](#) [Metadata Reports](#) [Metadata Views](#) [Metastatistics Views](#)

[More search options](#)

Home

Overall Summary

These tables provide summaries of data in IRUS-UK including: number of participating repositories, number of items downloaded from these repositories since they joined, numbers of downloads (in total, to the end of the previous month, and during the current month) and also the latest date for which data is available in IRUS-UK.

[Statistics and Reports available in the IRUS-UK Portal](#)

Overall Summary

Yearly summaries

Headlines at a glance		Year	No. of Repositories	No. of Articles	Article Downloads	No. of Items	Total Downloads
Repositories	131	2012	13	11,507	373,417	42,546	1,038,181
Items	968,338	2013	50	65,390	2,960,231	167,691	9,036,143
Downloads up to Sep-2017	105,506,830	2014	75	123,759	5,682,243	304,716	16,570,691
Downloads in Oct-2017, so far...	82,880	2015	95	193,491	7,761,620	450,082	22,373,006
Total Downloads	105,589,710	2016	119	345,247	11,825,566	716,509	29,785,606
		2017	128	448,234	10,824,826	937,231	26,703,203



IRUS-UK: Repository Report 1



IRUS-UK

Last update: 1st Oct 2017

Home Statistics Reports Metadata Reports Metadata Views Metastatistics Views

[More search options](#)

Repository Report 1 (RR1), Number of Successful Item Download Requests by Month and Repository

Repository Report 1 (RR1), Number of Successful Item Download Requests by Month and Repository

To whom it may concern

Period covered by Report: 2017-01-01 to 2017-09-30

Filters:

Date Run: 2017-10-03

Repository	Total	Jan-2017	Feb-2017	Mar-2017	Apr-2017	May-2017	Jun-2017	Jul-2017	Aug-2017	Sep-2017
Totals	26,703,203	2,880,621	3,140,581	3,782,846	3,394,434	3,322,775	2,441,243	2,467,227	2,531,724	2,741,752
ARRO - Anglia Ruskin Research Online	18,617	1,284	2,355	2,274	3,098	1,891	1,741	1,878	2,034	2,062
Aberdeen University Research Archive (AURA)	88,617	11,733	9,735	13,626	9,753	9,475	8,732	9,437	8,085	8,041
Abertay Research Collections (ARC)	16,801	2,048	2,153	3,523	2,468	2,293	1,667	2,037	612	0
Abertay Research Portal	1,789	0	0	0	0	0	0	0	425	1,364
Aberystwyth University - CADAIR	68,253	8,607	8,954	10,082	8,871	8,648	6,410	5,638	5,747	5,296

IRUS-UK: Item Report 1



IRUS-UK

Last update: 1st Oct 2017

Home Statistics Reports Metadata Reports Metadata Views Metastatistics Views

[More search options](#)

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

Period covered by Report:	2017-07-01 to 2017-09-30
Filters	Repository:LSE Research Online;
Date Run	03/10/2017
Number of results	23,106

← Previous page **001** 002 003 004 005 006 007 008 009 010 ... 463 Next page →

ItemURL	OAISourceID	Title	Author	Itemtype	Total	Jul-2017	Aug-2017	Sep-2017
Totals					430,050	87,753	156,013	186,284
http://eprints.lse.ac.uk/788/	oai:eprints.lse.ac.uk:788	"After years in the wilderness": the discourse of land claims in the new South Africa	James, Deborah	Article	2	0	1	1
http://blogs.lse.ac.uk/politicsandpolicy/	oai:eprints.lse.ac.uk:83973	"All that is solid...": the destructive tendencies of the Conservative Party	Farrington, Conor	Website	2	0	0	2
http://eprints.lse.ac.uk/29394/	oai:eprints.lse.ac.uk:29394	"Almost a separate race": racial thought and the idea of Europe in British encyclopaedias and histories, 1771-1830	Stock, Paul	Article	53	12	16	25
http://eprints.lse.ac.uk/63276/	oai:eprints.lse.ac.uk:63276	"Are they crazy?": social representations, conformism, and behavior	Wagner, Wolfgang; Kello, Katrin; Howarth, Caroline	Article	10	0	7	3

What next – COUNTER and IRUS-UK?

- IRUS-UK follows the COUNTER Code of Practice for its ingest . . .
- But reports we produce are not covered by the existing R4
 - So, they are COUNTER-like rather than official reports
 - We are COUNTER-conformant rather than COUNTER-compliant
- We've worked with COUNTER and the COUNTER auditors to define requirements for additional reports to cater for
 - Repositories and other new services
 - An OA landscape
- COUNTER has developed a new [R5 Code of Practice](#), which comes into force in 2019
 - Simplifies and harmonises reporting requirements
 - Fewer reports with increased flexibility
 - Integrates requirements for repositories
- We will undergo an official audit and become COUNTER-compliant in 2019

What next – COUNTER and robots?

- Static lists of IPs and UAs, while useful to a certain extent, are not sufficient to eliminate ‘bad’ robots and rogue usage
- A better approach is to look at dynamic filtering based on observed behaviour of IPs and UAs
- The COUNTER Robots Working Group
 - Working to identify the most practical and generally applicable robot detection techniques
 - Attempting to determine and agree various thresholds for elimination of non-human usage (with a justifiable statistical basis)
- Caveat: At certain levels of activity machine/non-genuine usage is practically indistinguishable from genuine human activity.
- COUNTER intends to incorporate the results of this work into the R5 Code of Practice

IRUS-UK: other services and pilots

- Other statistics services we run:
 - IRUS-CORE
 - [CORE](#)'s "mission is to aggregate all open access research outputs from repositories and journals worldwide and make them available to the public."
 - IRUS-OAPEN
 - The [OAPEN](#) Library contains freely accessible academic books, mainly in the area of humanities and social sciences. OAPEN works with publishers to build a quality controlled collection of open access books, and provides services for publishers, libraries and research funders in the areas of deposit, quality assurance, dissemination, and digital preservation.
 - IRUS-UvA
 - University of Amsterdam's repository DARE
- Statistics pilots:
 - IRUS-USA
 - IRUS-ANZ, coming soon!

IRUS-UK: involvement and collaboration

- We're actively involved in:
 - COUNTER
 - Executive Committee, Technical Advisory Group, Robots Working Group
 - NISO SUSHI Committee
 - OpenAIRE Usage Statistics
 - Our API feeds into the (coming soon) OpenAIRE OA stats dashboard
 - COAR Interest Group on Usage Data and Beyond
 - <https://www.coar-repositories.org/activities/repository-interoperability/usage-data-and-beyond/>

Contacts & Information

IRUS-UK web site:

- <http://irus.mimas.ac.uk/>

Contact IRUS-UK:

- irus@jisc.ac.uk
- [@IRUSNEWS](#)

COUNTER web site:

- <http://www.projectcounter.org/>

Contact COUNTER:

- <http://www.projectcounter.org/contact.html>
- [@projectCOUNTER](#)