

Use of item types by UK institutional repositories

A comparison of existing policies, practices and guidelines and implications for the list of item types used by IRUS-UK

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Incorporating feedback from IRUS-UK team and	8 November 2012
recommendations for RepNet	
Restructured incorporating feedback from RM	16 November 2012
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quote from RSP	
Table in Appendix 5 updated to include proposed	12 December 2012
IRUS-UK item types and mappings	
Item types for creative deposits added in	30 January 2013
response to feedback from the repository	
community. Versions guidelines referenced.	
Includes a review of the usage and suitability of	May 2014
the item types proposed in version 2, and the	
addition of any new guidelines that have been	
published or which we have become aware of	
since then.	
Includes proposals for minor changes to IRUS-UK	August 2014
item type mappings.	
RCUK Research Outcomes System (ROS) replaced	September 2014
by Researchfish	
Pure item types added	October 2014
	Incorporating feedback from IRUS-UK team and recommendations for RepNet Restructured incorporating feedback from RM and JL, and quotes from IR and UKOLN Incorporating feedback from RM and PN, copy sent to Nancy Pontika (RSP) Incorporating final feedback from RM and PN and quote from RSP Table in Appendix 5 updated to include proposed IRUS-UK item types and mappings Item types for creative deposits added in response to feedback from the repository community. Versions guidelines referenced. Includes a review of the usage and suitability of the item types proposed in version 2, and the addition of any new guidelines that have been published or which we have become aware of since then. Includes proposals for minor changes to IRUS-UK item type mappings. RCUK Research Outcomes System (ROS) replaced by Researchfish

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1 Executive summary

IRUS-UK follows on from the PIRUS2 project

(http://www.cranfieldlibrary.cranfield.ac.uk/pirus2/tiki-index.php) which demonstrated how COUNTER-compliant article-level usage statistics could be collected and consolidated from Publishers and Institutional Repositories. PIRUS2 worked with a limited number of item types (article, book chapter, book section, conference or workshop item, dataset, manual, other, presentation, report, technical report, thesis or dissertation, working paper) to which all other item types were mapped.

As part of the IRUS-UK project, we have examined a number of standards that have been proposed for the use of item types in institutional repositories, together with the item types that are actually being used. We have identified a number of issues affecting any attempts to standardise item types across UK repositories and have proposed an initial listing of item types for use in IRUS-UK. This is a pragmatic solution for the immediate future and can be extended as the project progresses as the original item types for each download are being stored and can be remapped at any stage.

In examining both the policies and guidelines and the actual usage of item types by UK repositories a number of issues became apparent:

- 1. There is a lack of consistency between the various guidelines which have been produced for the use of item types in institutional repositories. They vary in the terminology used (eg 'Journal articles' or 'Articles'), the style of terms (eg 'Book item' or 'bookPart') and whether singular or plural terms are used (eg 'Book' or 'Books'). Some guidelines include large numbers of terms, others only a few. Some include catch all terms such as 'Other', others don't.
- 2. Individual institutions have developed lists of item types for their institutional repositories which suit their own individual needs.
- 3. The software used by a repository may influence the item types that it uses, particularly if there is a default list included with the software as in the case of EPrints.
- 4. The item type chosen may vary depending on who creates the metadata when that item is deposited in a repository.
- 5. Some repositories and guidelines group items, whereas others have much more detailed breakdowns. For example bachelors, masters and doctoral theses may be separated out or grouped together.
- 6. Some repositories use the item type field for information that is of use to them but isn't strictly an item type, eg individual letters and numbers.
- 7. Some repositories allow for the use of multiple item types.

- 8. It would be impossible retrospectively to require institutional repositories to adhere to a standard listing.
- 9. The increased use of CRIS and the linking of CRIS to IRs have implications for the item types used by repositories both now and going forward.

IRUS-UK initially continued to use the listing from PIRUS2, but this study was undertaken to ascertain whether there were any guidelines on repository item types that existed and were in widespread use. In view of the inconsistencies identified above, a pragmatic approach was taken and a simplified version of the current IRS item type list is proposed for use in IRUS-UK. It aims to include the major item types that we are likely to encounter. We propose both an 'Other' heading for item types with few resources and an 'Unknown' heading where the content of the item type field is not an obvious item type.

Version 1 of this report proposed that:

The IRUS-UK list will contain the following item types: Article; Audio; Book; Book Section; Conference or Workshop Item; Exam Paper; Exhibition; Image; Journal; Learning Object; Moving Image; Other; Patent; Preprint, Report; Review; Text; Thesis or Dissertation; Unknown; Website; Working Paper.

Following feedback from the repository community, particularly in relation to creative outputs, additional item types were added and Exhibition was renamed Show/Exhibition, giving an updated list as follows:

The IRUS-UK list will contain the following item types: Art/Design Item; Article; Audio; Book; Book Section; Conference or Workshop Item; Dataset; Exam Paper; Image; Journal; Learning Object; Moving Image; Music/Musical Composition; Other; Patent; Performance; Preprint, Report; Review; Show/Exhibition; Text; Thesis or Dissertation; Unknown; Website; Working Paper.

As the original item types are stored for each download, it will be possible to remap types to expand or amend this list over time.

The existence and use of a harmonised version of item types would be of great benefit to the institutional repository community particularly in managing their usage data. We support the RIOXX recommendation that, going forward, a vocabulary be adopted or developed for item types.

However, the complexity of the existing use of item types is such that this is extremely unlikely ever to be retrospectively applied.

We propose that, rather than attempting to change existing item types, repositories are encouraged to map these to a generic list, either that used in IRUS-UK, which could be provided to institutions, or a similar listing. Ideally this item type should be stored in a separate field but if this were not possible, and it had to be stored in the same field as existing item types then it would need to be encoded in such a way that it could be distinguished and that it would be machine parsable.

We propose that further work be undertaken to investigate this including the possibility of developing some form of automated mapping tool for repositories to use.

Following this 2014 review of item type guidelines and usage, we propose that the item types used by IRUS-UK are slightly modified to remove 'Journal' and 'Review' and to split 'Conference or Workshop Item' into three categories. Thus:

The IRUS-UK list will contain the following item types: Art/Design Item; Article; Audio; Book; Book Section; Conference Papers /Posters; Conference Proceedings; Conference or Workshop Item – Other; Dataset; Exam Paper; Image; Learning Object; Moving Image; Music/Musical Composition; Other; Patent; Performance; Preprint; Report; Show/Exhibition; Text; Thesis or Dissertation; Unknown; Website; Working Paper.

2 Methodology

A mixture of desk research, discussions with key representatives and interviews informed this report.

The Repositories Support Project (RSP) (http://www.rsp.ac.uk/) and the Institutional Repository Search (IRS) (http://irs.mimas.ac.uk/), which both have expertise in this area, were contacted to obtain further information about the use of item types in UK institutional repositories and to ascertain whether they were aware of any guidelines being consistently applied across the repositories.

We received the following feedback from Phil Cross at the Institutional Repository Search (IRS) project:

"Typing is of great interest to the Institutional Repository Search (IRS) due to the great variety of resources within the institutional repositories we harvest and the difficulties this causes in filtering search results for end-users. Unfortunately, in our experience, there is little standardisation of resource type terms across repositories and, in many cases, a lack of awareness of the basic requirements of standardising to a controlled set of terms leading to a lack of standardisation within individual repositories.

This results in two main problem areas: a lack of consistency in the harvested metadata in describing the same types of resource across repositories, for instance a dozen different forms of words for 'article'; and seemingly arbitrary and ad hoc descriptions of common types within repositories, for instance numerous masters and doctoral degree titles rather than the use of a simple 'doctoral thesis' type. Combined with a lack of standardisation of the form for the same types within an institution, together with spelling errors and variations in punctuation, this suggests the use of end-user data entry with no oversight in place.

Unfortunately there is no standard set of resource types that we are aware of that provides the breadth and detail necessary to describe the full contents of institutional repositories, which needs to consist of a far wider range of types than simply those of academic publications. However one could wish for a greater understanding from repository managers for the need for standardisation and consistency within repositories and a better understanding of the needs of the end users who may wish to search through their collections."

We received the following feedback from Bill Hubbard and Nancy Pontika at the Repositories Support Project (RSP):

"Typing of contents would be a useful and timely development. Initially repositories were built with user generated metadata on a "good enough" basis, which was felt necessary to kick-start growth. Repositories managers are likely to work to the institution's library and have a good appreciation of the value- and eventual need for- standardized typologies of content. Thus far has been no other way to satisfy that need. What is needed is a rich typology sufficient to capture the diversity of possible content — was heavy work for legend pre-print/post-print articles- but simple enough for everyday use. This is a challenge, but one which would be welcomed by repository managers, as long as assigning the values is well integrated into the deposit process, which will call for technical development of the standard repository software and, of course, in-house development of any bespoke solutions. Proposals for standards in many areas come and go: adoption will take resource and managers need to be assured of the wide-spread buying and support of any proposed solution. The challenge for introducing them is three fold: the typology, the technical implementation and acceptance by repository staff of the proposal of the future standard solution."

The issues associated with the use of item types were also discussed with Paul Walk at UKOLN who commented as follows:

"Paul,

many thanks for your time explaining the approaches you have taken to metadata normalisation in IRUS-UK. I think that you have managed to hit the sweet-spot between maintaining the richness of the varied repositories' approaches to characterising items while introducing a well judged level of normalisation to arrive at a manageable but still useful set of item types.

I'm very interested in building on this approach for RIOXX/RepUK and will be in touch about this later on in the RIOXX project.

Paul"

The guidelines that RSP and IRS identified plus others already known to the IRUS-UK team or identified using an internet search were checked. Details were extracted and compared for the main guidelines applicable to UK institutional repositories and the results summarised (see below and appendices 1-6).

Additional guidelines were added in updating this report to version 3. The guidelines can now be found at appendices 1-7.

Interviews were conducted with IRUS-UK pioneer repository managers from EPrints, DSpace and Fedora repositories. Views were sought both about the use of item types in repositories generally and about the requirements for reporting within IRUS-UK.

The responses that we received, which confirmed a number of the issues above, will be written up and a distilled report made available later.

3 Policies and guidelines

There have been a number of projects relating to the deposit of items in institutional repositories over the last few years which have aimed to provide guidance of some form on the use of item types.

In addition, repository software products such as EPrints and DSpace provide guidance on item types.

<u>Appendix 8</u> provides a table comparing the various guidelines listed below. It illustrates the variation in their proposed item types and also the inconsistencies in terminology and style.

Guidance is also available on version control for research outputs within institutional repositories and elsewhere. This is not of direct relevance to IRUS-UK (although it was to PIRUS) as version is effectively a sub-type of the item types for which IRUS-UK is gathering

data. However, versioning will have been adopted by some institutional repositories so the guidelines are included here for completeness.

3.1 Institutional repository software-specific guidelines

- 1. EPrints
- 2. DSpace
- 3. Fedora

For further details of these guidelines see Appendix 1.

3.2 CRIS guidelines

- 1. Symplectic
- 2. Converis
- 3. Pure

For further details of these guidelines see Appendix 2.

3.3 Jisc-funded guidelines

- 1. SWAP Scholarly Works Application Profile (2006)
- 2. EThOS (2006)
- 3. IRIScotland (2008)
- 4. Kultur (2009)
- 5. Jisc infoKit Digital repositories (2010) (archived)
- 6. RIOXX application profile (2014)
- 7. Vocabularies for Open Access (V4OA)

For further details of these guidelines see Appendix 3.

3.4 EU-funded guidelines

- DRIVER (Digital Repository Infrastructure Vision for European Research) Guidelines
 Guidelines for content providers exposing textual resources with OAI-PMH (November 2008)
- 2. OpenAIRE Guidelines for Literature Repositories 3.0 (2013)
- 3. OpenAIRE Guidelines for CRIS Managers based upon CERIF-XML (draft 2014)
- 4. CERIF the Common European Research information Format 1.5

For further details of these guidelines see Appendix 4.

3.5 Other UK guidelines

- 1. REF2014 Output collection formats
- 2. Researchfish

For further details of these guidelines see Appendix 5.

3.6 International policies and guidelines

- 1. Bibliographic Ontology (BIBO)
- 2. Consortia Advancing Standards in Research Administration Information (CASRAI)
- 3. Schema.org

For further details of these guidelines see Appendix 6.

3.7 Versioning guidelines

- 1. Versions toolkit (February 2008)
- 2. Journal Article Versions (JAV): Recommendations of the NISO/ALPSP JAV Technical Working Group (April 2008)

Although not of direct relevance to IRUS-UK, the PIRUS2 project considered the versioning of articles to be included in COUNTER Article Level reports. In the PIRUS2 Final report (http://www.cranfieldlibrary.cranfield.ac.uk/pirus2/tiki-download_wiki_attachment.php?attId=170&download=y), it was recommended that of the NISO/ALPSP JAV Working Group recommendations:

"include Accepted Manuscript, Proof, Version of Record versions"

"exclude Authors Original and Submitted Manuscript Under Review versions".

For further details of these guidelines see Appendix 7.

4 Usage of item types in UK repositories

Information on actual use of item types in UK institutional repositories was taken from the Institutional Repository Search (IRS) (http://irs.mimas.ac.uk/) tool which searches across 130 UK academic repositories and thus has data on all item types actually used in these repositories. A total of 735 item types has been identified, many of which are very similar.

See Appendix 9 for the full listing.

The IRS team has done some very useful work on mapping these item types to a list of approximately 42 item types which can be used to filter IRS searches. This mapping was used as a basis for the proposed IRUS-UK item types list.

5 Proposals for usage of item types in IRUS-UK (versions 1 and 2)

A simplified version of the current IRS item type list is proposed for use in IRUS-UK. It aims to include the major item types that we are likely to encounter. We propose both an 'Other' heading for item types with few resources and an 'Unclassified' heading where the content of the item type field is not an obvious item type.

Version 1 of this report proposed that:

The IRUS-UK list will contain the following item types: Article; Audio; Book; Book Section; Conference or Workshop Item; Exam Paper; Exhibition; Image; Journal; Learning Object; Moving Image; Other; Patent; Preprint, Report; Review; Text; Thesis or Dissertation; Unclassified; Website; Working Paper.

Following feedback from the repository community, particularly in relation to creative outputs, additional item types were added and Exhibition was renamed Show/Exhibition, giving an updated list as follows:

The IRUS-UK list will contain the following item types: Art/Design Item; Article; Audio; Book; Book Section; Conference or Workshop Item; Dataset; Exam Paper; Image; Journal; Learning Object; Moving Image; Music/Musical Composition; Other; Patent; Performance; Preprint, Report; Review; Show/Exhibition; Text; Thesis or Dissertation; Unclassified; Website; Working Paper.

As the original item types are stored for each download, it will be possible to remap types to expand or amend this list over time.

6 Review of progress since version 2.0 of report was published

Now that the proposed item types have been used in IRUS-UK for a little over one year, the opportunity has been taken to review their usage and suitability, and also identify any new guidelines that have been published or which we have become aware of.

6.1 Guidelines

A number of different guidelines have been identified and added to this document, some of which refer specifically to institutional repositories and some of which refer more widely to research reporting and open access.

The following are the new guidelines that have been considered: Symplectic; Converis; Pure; IRIScotland; V4OA; OpenAIRE Guidelines for Literature Repositories 3.0 (2013) (replaces OpenAIRE Guidelines 1.1 – Guidelines for providers of the OpenAIRE information space (November 2010)); OpenAIRE Guidelines for CRIS Managers based upon CERIF-XML (draft 2014); CERIF; REF2014 Output collection formats; Researchfish; Consortia Advancing Standards in Research Administration Information (CASRAI); Schema.org.

6.2 Item types in IRUS-UK

<u>Appendix 10</u> lists actual usage of IRUS-UK item types by participating repositories from date of joining (earliest 5 July 2012) to April 2014 and <u>Appendix 11</u> provides notes and comments on individual item types and their suitability going forward.

Feedback on the use of item types in IRUS-UK was also sought from the Community Advisory Group and many useful comments were received both on specific item types and on wider issues such as the requirements of REF and interoperability of item types between CRIS and IRs. It was also noted that in some cases, the item types used in repositories describe the form that the research output takes eg an exhibition, rather than the physical format of the item deposited in the repository which eg may be an image.

7 Updated proposals for usage of item types in IRUS-UK

Following both an examination of the new guidelines and their mapping to the current IRUS-UK item types (see Appendix 8) and an examination of the use of the IRUS-UK item types since their inception (see Appendices 10 and 11), it is proposed that we slightly modify the item types used by IRUS-UK to remove 'Journal' and 'Review' and to split 'Conference or Workshop Item' into three categories. Thus:

The IRUS-UK list will contain the following item types: Art/Design Item; Article; Audio; Book; Book Section; Conference Papers /Posters; Conference Proceedings; Conference or Workshop Item – Other; Dataset; Exam Paper; Image; Learning Object; Moving Image; Music/Musical Composition; Other; Patent; Performance; Preprint; Report; Show/Exhibition; Text; Thesis or Dissertation; Unknown; Website; Working Paper.

As the original item types continue to be stored for each download, it will be possible to remap types to expand or amend this list over time.

In addition, we are starting a pending list of item types that we are considering for inclusion in the future if their usage becomes significant. We have been asked to consider the inclusion of 'Code' as an item type. None of our current participants uses that but some use the term 'Software' so we have added this to our pending list.

Appendix 1 - Institutional repository software-specific guidelines

EPrints

http://www.eprints.org/software/training/configuration/configuration exercises.pdf [Accessed 18 August 2014]

Default deposit types for users of EPrints software are: Article, Book, Book Section, Conference Item, Monograph, Patent, Thesis, Artefact, Exhibition, Composition, Performance, Image, Video, Audio, Dataset, Experiment, Teaching Resource and Other.

Institutions using EPrints software may choose to extend or reduce this default list.

DSpace

DSpace (http://www.dspace.org/) uses qualified Dublin Core which recommends using a controlled vocabulary such as the DCMI Type Vocabulary [DCMITYPE]

http://dublincore.org/documents/dcmi-terms/ [Accessed 18 August 2014]

The DCMITYPE Vocabulary includes the following types: Collection, Dataset, Event, Image, InteractiveResource, MovingImage, PhysicalObject, Service, Software, Sound, StillImage, Text.

Fedora

Fedora states that it can be used for many kinds of digital content including documents, images, electronic books, multi-media learning objects, datasets, metadata and many others. It does not provided defined item type templates or item types but rather leaves it to the implementing repository to define their own item type templates.

Appendix 2 - CRIS guidelines

Symplectic

Email from Graham Triggs 19/05/14

Symplectic ship with a default list of item types as listed below. In addition, clients may choose to create custom item types to meet local requirements.

Books; Chapters; Datasets; Conferences; Journal articles; Patents; Reports; Software; Performances; Compositions; Designs; Artefacts; Exhibitions; Other; Internet publications; Scholarly editions; Posters; Theses / Dissertations

Converis

Email from Thorsten Höllrigl 20/05/14

Converis ship with a default list of the CERIF item types as listed below, but these can be adapted or expanded for regional requirements, eg for REF.

Publicationtype	Definition
Book	A collection of leaves of paper, parchment,
	vellum, cloth, or other material (written,
	printed, or blank) fastened together along
	one edge, with or without a protective case
	or cover.
Book Review	An evaluative account of a recent book,
	usually written and signed by a qualified
	person, for publication in a current
	newspaper, magazine, or journal.
Book Chapter	A brief, objective representation of the
	essential content of a book chapter,
Abstract	presenting the main points in the same
	order as the original but having no
	independent literary value.
Book Chapter	An evaluative account of a recent book
	chapter, usually written and signed by a
Review	qualified person, for publication in a
	current newspaper, magazine, or journal.

Inbook A part of a book, usually untitled. Macchapter (or section or whatever) and	
T CHADLEL FOR SECTION OF WHATEVER) AND	•
range of pages.	,
Anthology A collection of extracts or complete	works
by various authors, selected by an ed	
for publication in a single volume or	
multivolume set. Anthologies are oft	en
limited to a specific literary form or s	
(short stories, poetry, plays) or to a r	
literature, theme, time period, or car	
of author.	85. 1
Monograph A relatively short book or treatise on	а
single subject, complete in one phys	
piece, usually written by a specialist	
field. Monographic treatment is deta	
and scholarly but not extensive in sc	
Referencebook A book designed to be consulted wh	•
authoritative information is needed,	
than read cover to cover. Reference	
often consist of a series of signed or	DOORS
unsigned "entries" listed alphabetica	llv
under headwords or headings, or in	-
other arrangement (classified, nume	
etc.).	110,
Textbook An edition of a book specifically inte	nded
for the use of students who are enro	lled in
a course of study or preparing for an	
examination on a subject or in an acc	ademic
discipline, as distinct from the trade	edition
of the same title. Also refers to the	
standard work used for a specific cou	ırse of
study, whether published in special of	edition
or not.	
Encyclopedia A book or numbered set of books	
containing authoritative summary	
information about a variety of topics	in the
form of short essays, usually arrange	d
alphabetically by headword or classi	fied in
some manner. An entry may be sign	ed or
unsigned, with or without illustration	n or a

	list of references for further reading.
	Headwords and text are usually revised
	periodically for publication in a new edition.
Manual	refers to a book or pamphlet containing
	practical instructions, rules, or steps for
	performing a task or operation, assembling
	a manufactured object, or using a system or
	piece of equipment. Used synonymously
	with handbook.
Otherbook	Uncertain of definition – originates from
	BibTex
Journal	A periodical devoted to disseminating
	original research and commentary on
	current developments in a specific
	discipline, subdiscipline, or field of study
	(example: Journal of Clinical Epidemiology),
	usually published in quarterly, bimonthly,
	or monthly issues sold by subscription (click
	here to see an example). Journal articles
	are usually written by the person (or
	persons) who conducted the research.
Journal Article	A self-contained nonfiction prose
	composition on a fairly narrow topic or
	subject, written by one or more authors
	and published under a separate title in a
	collection or periodical containing other
	works of the same form.
Journal Article	A brief, objective representation of the
	essential content of an article, presenting
Abstract	the main points in the same order as the
	original but having no independent literary
	value.
Journal Article	An evaluative account of a recent of a
Do de	newly published literary or scholarly work,
Review	usually written and signed by a qualified
	person, for publication in a current
	newspaper, magazine, or journal.
Conference	A proceeding is a collection of articles,
Dun and divine	published abstracts or posters gathered
Proceedings	

	from a conference. Can have several	
	editors.	
Conference	Articles that has been presented at a	
	conference. Articles has been collected and	
Proceedings Article	published in a proceeding.	
Letter	A letter (also known as "communication") is	
	a brief description of important new	
	research.	
Letter to Editor	A letter, usually printed at the discretion of	
	the publisher on the editorial page of a	
	newspaper or magazine, in which a reader	
	expresses his or her views on the subject of	
	a previously published article or editorial,	
	or on the editorial policy of the publication	
	in general, sometimes followed by a brief	
	response from the editor(s).	
PhD Thesis	Dissertation/Thesis that leads to the	
	acquirement of a Ph.D. Degree.	
Doctoral Thesis	Dissertation/Thesis that leads to the	
	acquirement of a doctoral degree.	
Report	A separately published record of research	
	findings, research still in progress, or other	
	technical findings, usually bearing a report	
	number and sometimes a grant number	
	assigned by the funding agency.	
Short	A short communication is a concise, but	
	independent report representing a	
Communication	significant contribution to a subject.	
Poster	A visual presentation of an academic	
	subject presented at a conference.	
Presentation		
Newsclipping	An article published in a newspaper,	
	newsmagazine, or online news service,	
	reporting the details of a current event or	
	the latest information on a topic of general	
	interest. News stories are usually short and	
	often unattributed.	
Commentary	A written explanation or criticism or	
	1	
	illustration that is added to a book or other	

Annotation	A brief note, usually no longer than two or
	three sentences, added after a citation in a
	bibliography to describe or explain the
	content or message of the work cited or to
	comment on it.

Pure

Email from Claus Poulsen 19/09/14

Pure include the following research output types and sub-types:

Content type	Description	Sub type	Description
Contribution to journal	A journal is published in a consecutive number of volumes/issues, as a series with the same journal title. The journal will usually have an ISSN-number, e.g. ISSN 1234-5679.	Article	Article that communicates to a wide audience with a popular, debating and/or summarising content.
		Meeting abstract	n/a
		Letter	A short description of new, important research results.
		Comment/debate	Short commentary/ contribution to debate in a scientific publication, often about former printed articles.
		Book/Film/Article review	Review of a book/film/article, published in a journal.
		Scientific review	A critical review and evaluation of a (scientific) publication

		Editorial	An article-like text with the official opinion about a subject, from a journal's point of view.
		Special issue	A specific journal issue with focus on a special theme or subject.
Chapter in Book/Report/Conferenc e proceeding	Books, reports and anthologies/collecte d works where the author(s) are only responsible for part ofthe work, e.g. a chapter. The work may have an ISBN-number.	Chapter (peer- reviewed)	A peer reviewed chapter or part of a book, report or anthology/collected work.
		Chapter	Chapter or part of a book, report or anthology/collected work.
		Entry for encyclopedia/dictiona ry	A short, focused article on one or more subject(s) or event(s) for publication in an encyclopedia
		Conference contribution	Article that has been presented at a conference.
		Foreword/postscript	Contribution to book/report/conferen ce prior to the main text (foreword), as well as after this (postscript)
		Other chapter contribution	Contribution that does not fit into the other categories.

Book/Report	Books, reports and anthologies/collecte d works where the author(s) are responsible for the entire work. The work may have an ISBN-number.	Book	A completed, stand- alone work published in one or more volumes. Often with one or few authors and one or few subject areas.
		Anthology	A collection of a number of contributions to a completed work on a more or less specific subject. Mostly with a various number of authors. It can have a specific scientific audience, or a more popular approach to a wider audience.
		Scholarly edition	A completed, standalone work published in one or more volumes. Often with one or few authors and one or few subject areas. Has a scientific audience.
		Commissioned report	A report with a predefined objective, requested by the institution in charge.
		Other report	Reports that does not fit into other categories.
Contribution to specialist publication	Add research output that has been published in a domain specific journal, with a more	Article	Article that communicates to a wide audience with a popular, debating

	communicative		and/or summarising
	approach.		content.
		Featured article	Featured article, with
			a dominant location,
			that communicates to
			a wide audience with
			a popular, debating
			and/or summarising
			content.
		Book/Film/Article	Review of a book,
		review	article, film in a
			journal with a wide
			audience.
		Editorial	An article-like text
			with the official
			opinion about a
			subject, from a
			journal's point of view.
		Letter	A short description of
			new, important
			research results.
			A : 1 ::1 6
		Special issue	A journal with focus
			on a special theme or
			subject.
Working paper	A working paper is a	Working paper	A working paper is a
	document that		document that
	constitutes an early		constitutes an early
	version of a		version of a
	publication. Working		publication. Working
	papers are primarily		papers are primarily
	used for exchanging		used for exchanging
	ideas or to get		ideas or to get
	feedback, before		feedback, before
	submitting it to a		submitting it to a
	publisher. Working		publisher. Working
	papers are usually		papers are usually
	published by the		published by the
	authors own		authors own
	institution.		institution.

		Discussion paper	A working paper is a document that constitutes an early version of a publication. Working papers are primarily used for exchanging ideas or to get feedback, before submitting it to a publisher. Working papers are usually published by the authors own institution.
Contribution to conference	Article, abstract or poster, published in continuation of a conference.	Paper	Scientific text prepared in advance, for a conference. Made available at the conference or institutions own website, but not published officially in a journal/proceeding.
		Poster	A poster is a presentation of a work at a conference. Often with a dominating visual aspect, allowing a quick overview.
		Abstract	An abstract is a short condensed preview of an article or work, presented at a conference.
		Other	Any other publication type, from a conference.

Non-textual form	Research output that is not explicitly text. E.g. content with main focus on audio or images.	Software	Stand-alone software for execution of specific tasks.
		Data set/Database	A collection of structured data (measurements, observations etc.) in a specific form, as foundation for a specific research result.
		Digital or Visual Products	E.g. podcasts, animations, photos, sound recordings.
		Web publication/site	Electronic publication. E.g. website.
		Artefact	Artefacts of various kinds
		Exhibition	Sculptures, models, paintings, (art) installations etc.
		Performance	Dramatic or musical entertainment
		Composition	Musical scores, notes, sheets.
		Design	Designs in various forms.
Thesis	n/a	Doctoral Thesis	n/a
		Master's Thesis	n/a
Patent	A patent is a document that grants the rights of a piece of	Patent	A patent is a document that grants the rights of a piece of work/invention to its originator.

	work/invention to its		
	originator.		
Memorandum/expositi			
on			
			,
	Academic/profession al elucidation,	Memorandum	n/a
	analysis or		
	investigation, that is		
	not published in a		
	the form of an actual		
	report. E.g. a note,		
	elucidation or other inquiries related to		
	the parliament,		
	ministries, councils		
	or regions handling		
	of cases or law-		
	preparing work.		
	Elucidation and note		
	must be covered by a duty of		
	journalisation, which		
	means it must have a		
	journal number.		
		Question &	n/a
		Answer/hearing	
Contribution to			
memorandum/expositi			
on			
	Contribution to	Memorandum	n/a
	academic/profession	contribution	.,, =
	al elucidation,		
	analysis or		
	investigation, that is		
	not published in a the form of an actual		
	report. E.g. a note,		
	elucidation or other		
	inquiries related to		
	the parliament,		

	ministries, councils or regions handling of cases or law-preparing work. Elucidation and note must be covered by a duty of journalisation, which means it must have a journal number.		
		Question & Answer/hearing contribution	n/a
Other contribution			
	Research output that is not explicitly text. E.g. content with main focus on audio or images.	Other contribution	Contribution that does not fit into the other categories.

Appendix 3 - Jisc-funded guidelines

SWAP - Scholarly Works Application Profile (2006)

http://www.ukoln.ac.uk/repositories/digirep/index/Scholarly Works Application Profile [Accessed 18 August 2014]

A Dublin Core Application Profile for describing scholarly works (eprints) held in institutional repositories was developed by a Jisc working group within the Jisc Digital Repositories programme in 2006.

The profile recommended the use of an item type from the EPrints Type Vocabulary Encoding Scheme

(http://www.ukoln.ac.uk/repositories/digirep/index/Eprints Type Vocabulary Encoding Scheme [Accessed 18 August 2014]), as given below.

Label	Definition	
Scholarly Text	A scholarly text that is primarily words for	
	reading. Where the text is one of the more	
	specific types listed here, use the more	
	specific term.	
Book	A non-serial publication that is complete in	
	one volume or a designated finite number	
	of volumes. In physical form, a book is a	
	collection of sheets of paper, parchment or	
	other material bound together along one	
	edge within covers. Books are often	
	identified with an ISBN.	
Book Item	A defined chapter or section of a book,	
	usually with a separate title or number.	
Book Review	A review of a book.	
Conference Item	A contribution to a conference, workshop	
	or other event. Where the contribution is a	
	paper or poster, use Conference Paper or	
	Conference Poster as appropriate.	
Conference Paper	A paper submitted and/or presented at a	
	conference, workshop or other event.	
Conference Poster	A poster submitted and/or presented at a	
	conference, workshop or other event.	

Journal Item	A contribution to a journal, e.g. an article,
Journal Item	editorial, conference report, debate, letter
	or response. Where the contribution is an
	article, use Journal Article.
Journal Article	An article or paper published in a journal.
Journal Article	1
	For book reviews, use Book Review. For
	news items use News Item. For other types
	of contribution use Journal Item.
News Item	A news item.
Patent	A patent or patent application.
Report	A research, statistical or technical report
	issued by an institution, agency,
	government body or other organisation.
Submitted Journal Article	The author's original manuscript as
	submitted to and/or accepted by a journal.
	In the terminology recommended by the
	[Sherpa project], a submission prior to peer
	review is a preprint; a submission after peer
	review is a postprint. Therefore, a
	Submitted Journal Article can be either a
	preprint or a postprint. For the version of
	the article published by the journal, use
	Journal Article.
Thesis or Dissertation	A thesis or dissertation submitted in
	completion of a course of study at an
	institution of higher education.
Working or Discussion Paper	A working or discussion paper circulated
	publicly or among a group of peers. Certain
	disciplines, for example economics, issue
	working papers in series. Working or
	discussion papers may form the basis for a
	Journal Article or Conference Paper.
	Journal Article of Conference Luper.

EThOS (2006)

http://ethostoolkit.cranfield.ac.uk/ [30 January 2013]

EThOS was a Jisc-funded project instrumental in delivering the British Library's EThOS Service - enabling users to search a central database of UK theses and to download the full text of the selected items in secure format and in the form intended by the authors.

The project developed a UKETD application profile (http://ethostoolkit.cranfield.ac.uk/tiki-index.php?page=The+EThOS+UKETD_DC+application+profile), described in the EThOS Toolkit, which recommended a core set of metadata for theses and dissertations, including the use of the term 'Thesis' as a standard type for theses.

IRIScotland (2008)

http://cdlr.strath.ac.uk/pubs/dawsona/IRISMetadataDraft.pdf [Accessed 18 August 2014]

The IRIScotland project aimed to "provide the organisational and technological framework for a Scotland-wide institutional repository infrastructure for research".

It produced the following document: "Draft IRIScotland metadata agreement: standards and guidelines for institutional repositories (June 2007)". It recommended the use of the labels from the Eprints type vocabulary encoding scheme from the Scholarly works application profile

(http://www.ukoln.ac.uk/repositories/digirep/index/Eprints Type Vocabulary Encoding Sc heme):

Book; Book Item; Book Review; Conference Item; Conference Paper; Conference Poster; Journal Article; Journal Item; News Item; Patent; Report; Scholarly Text; Submitted Journal Article; Thesis or Dissertation; Working or Discussion Paper.

However, the guidelines recognised that this had a narrower scope than IRIScotland and may need augmenting to cover other types of items such as research data.

Kultur (2009)

http://kultur.eprints.org/Metadata%20report%20Final.pdf [Accessed 18 August 2014]

Kultur was a Jisc-funded project which ran from 2007-2009 and which created a model of an institutional repository for use in the creative and applied arts. It developed metadata to describe non-text objects "including a greater requirement to describe physical items, to describe multiple items/documents within a single record, to document roles in collaborations, and to record objects and events within the same set of metadata".

In phase 2 of the project an expansion of the default EPrints item types list was used which replaced 'Artefact' with the following list: Animation; Architecture; Audio work; Book art/Artist's book; Ceramics; Conservation work; Craft; Curation; 2D Design; 3D Design; Digital art; Drawing; Exhibition/show; Fashion; Film; Illustration; Installation; Painting; Performance; Photography; Printmaking; Public art; Sculpture; Site-specific work; Sound art; Teaching; Textiles; Theatre; Typography; Video; Other.

This list was subsequently moved to a category field and the final metadata recommendations offer three types: Art/Design item; Show/Exhibition; Performance.

Jisc infoKit Digital repositories (2010) (archived)

http://www.jiscinfonet.ac.uk/infokits/repositories/content-types [16 August 2012]

http://tools.jiscinfonet.ac.uk/downloads/repositories/digital-repositories.pdf [Accessed 18 August 2014]

The infoKit is now available at http://www.jiscinfonet.ac.uk/infokits/digital-repositories/. [Accessed 18 August 2014]

The Digital repositories infoKit was one of a collection of infoKits from Jisc. The infoKit was archived in the course of the production of version 2 of this document. It provides two lists of content types for digital repositories: the first lists the most common content types in repositories as identified by OpenDOAR (List 1).

- Journal articles
- Bibliographic references (metadata only)
- Books, sections and chapters
- Conference and workshop papers
- Theses and Dissertations
- Unpublished reports & working papers
- Datasets
- Content-packaged learning objects
- Multimedia and audio-visual materials
- Software
- Patents
- Other special items

The second list, adapted from the default content type list provided with EPrints software, offers a starting point to seek to clarify item types (List 2).

Publications

- Articles Articles in journals, magazines, newspapers. Not necessarily peer-reviewed.
 May be an electronic-only medium, such as an online journal or news website
- **Books** Complete books or conference volumes
- Book Sections Separately-authored chapters or sections in books
- **Conference or Workshop Items** Papers, posters, speeches, lectures or presentations given at a conference, workshop or other event. If the conference

item has been published in a journal or book then please use 'Book Section' or 'Article' instead

Theses & Dissertations

Student theses and dissertations submitted to an institution as part of the requirements for a degree, including:

- Doctoral Theses PhD
- Masters Theses & Dissertations MSc, MA, MBA, etc
- Bachelors Dissertations BSc, BA, etc

Resources used to support teaching and learning

- Curricula and syllabuses
- Course validation documents
- Course materials learning resources, lecture notes, learning exercises
- Assessment materials tests, exam papers
- Study skills, support and revision materials
- Student-produced work (including all the content types listed here)

Audio Visual Items

- Images Digital photographs or visual images
- Video Digital video
- Audio Sound recordings
- Show/Exhibition An artist's exhibition or site-specific performance-based deposit
- Artefact An artist's artefact or work product. Could also apply to archaeological finds
- **Performance** Performance of a musical event
- Composition A musical composition

Data

- Datasets Bounded collections of quantitative data (e.g. spreadsheet or XML data file)
- Experiment Experimental data with intermediate analyses and summary results

Grey Literature

• **Patents** - A published patent. As-yet unpublished patent applications should never be included in a repository, because to do so might disqualify the application

The following are grouped together by EPrints as Monographs, although many people use 'monograph' as a synonym for 'book'

- Technical Reports
- Project Reports
- Documentation & Manuals
- Working Papers & Discussion Papers

Other

Something within the scope of the repository, but not covered by the other categories.

RIOXX application profile (2014)

http://rioxx.net/v2-0-beta-1/ [Accessed 18 August 2014]

Consultation on the beta version of RIOXX 2.0 closed on 16th July 2014. The profile may be revised in response to feedback received before the final version is published.

The profile includes the mandatory field rioxxterms:type with the following controlled list of terms:

- Book
- Book chapter
- Book edited
- Conference Paper/Proceeding/Abstract
- Journal Article/Review
- Manual/Guide
- Monograph
- Policy briefing report
- Technical Report
- Technical Standard
- Thesis
- Other
- Consultancy Report
- Working paper

The profile states "RIOXX 2.0 is specifically focussed on describing open access publications. It allows linking to other open access outputs types (such as research data sets for example), but does not describe these." As such, it is not applicable to all the item types included in institutional repositories. When the profile is implemented by participating repositories,

IRUS-UK will be able to display mappings to these item types in addition to the agreed list of IRUS-UK mappings.

Vocabularies for Open Access (V40A)

http://www.jisc.ac.uk/whatwedo/topics/digitallibraries/pals-group/v4oa.aspx [Accessed 18 August 2014]

http://v4oa.net/ [18 August 2014]

"The aim of the work is to establish an ongoing process by which agreements can be reached on which standard vocabularies will be used in particular circumstances in the OA context, and to create a Web resource to act as a focal point for these agreements."

The public consultation paper, issued in September 2013, states that the project will initially focus on four key areas of metadata: embargo periods; the legal rights of organisations or authors; whether an organisation or individual has paid for an item to be published on an Open Access basis; and, metadata that asserts whether or not an item is currently free to read online.

This project has been included here for completeness but is currently not directly relevant to IRUS-UK.

Appendix 4 - EU-funded guidelines

DRIVER (Digital Repository Infrastructure Vision for European Research) Guidelines 2.0

Guidelines for content providers - exposing textual resources with OAI-PMH (November 2008)

http://www.driver-support.eu/documents/DRIVER Guidelines v2 Final 2008-11-13.pdf [Accessed 18 August 2014]

The DRIVER guidelines are "an instrument to map (or translate) the metadata used in the repository to the Dublin Core metadata as harvested by DRIVER".

Their publication types are "a combination of the types DARE uses from DC guidelines, types listed in the DINI certificate and the e-Prints publication types

(http://www.ukoln.ac.uk/repositories/digirep/index/Eprints Type Vocabulary Encoding Sc heme). Based on these authoritative guidelines, improved guidelines have been made for DRIVER in "Use of MODS for institutional repositories" which is in line with publication types used by commons Current Research Information Systems (CRIS) like METIS."

info:eu-	Version allowed	Description
repo/semantics/		
article	accepted / published /	Article or an editorial published in a
	updated	journal
bachelorThesis	accepted / published /	Lowest level of a thesis (normally
	updated	after three years of study). See also
		http://en.wikipedia.org/wiki/Diplom
masterThesis	accepted / published /	Intermediate level of a thesis
	updated	(normally after four or five years of
		study). See also
		http://en.wikipedia.org/wiki/Diplom
		This also refers to theses of the pre-
		Bologna period for degrees that are
		at the same level as what now is
		known as a master degree.
doctoralThesis	accepted / published /	Highest level of a thesis normally
	updated	after more than four or five years of
		study. See also
		http://en.wikipedia.org/wiki/Diplom

book	accepted / published / updated	Also everything equal and higher then a Doctoral thesis, that does not follow the "Bologna Convention", will be put in the category doctoralThesis. A free text field will Provide the opportunity to specify this further. Book or monograph
bookPart review	accepted / published / updated draft / submitted /	Part or chapter of a book Review of a book or article
conferenceObject	accepted / published / updated draft / submitted /	All kind of documents related to a
	accepted / published / updated	conference, p.e. conference papers, conference reports, conference lecture, papers published in conference proceedings, conference contributions, reports of abstracts of conference papers and conference posters.
lecture	draft / submitted / accepted / published / updated	Lecture or presentation presented during an academic event, e.g., inaugural lecture. Excluded is a conference lecture (see conferenceltem).
workingPaper	draft / submitted	a preliminary scientific or technical paper that is published in a series of the institution where the research is done. Also known as research paper, research memorandum or discussion paper. The difference with a preprint is that a workingPaper is published in a institutional series. Examples are: working papers, research papers, research memoranda and discussion papers.

preprint	draft / submitted	like a workingPaper this is a preliminary scientific or technical paper, but it is not published in a institutional series. The paper is intended to be published in a scientific journal or as a chapter in a book.
report	draft / submitted / accepted / published / updated	This is a more or less a rest category and covers commission reports, memoranda, external research reports, internal reports, statistical report, reports to funding agency, technical documentation, project deliverables etc. Excluded are conference reports (See conferenceItem).
annotation	draft / submitted / accepted / published / updated	Note to a legal judgment
contributionToPeriodical	draft / submitted / accepted / published / updated	Contribution to a newspaper, weekly magazine or another non-academic periodical
patent	draft / submitted / accepted / published / updated	Patent
other	draft / submitted / accepted / published / updated	Especially meant for non-publication data like research data, audio-visual materials, animations etc.

OpenAIRE Guidelines for Literature Repositories 3.0 (2013)

https://guidelines.openaire.eu/wiki/OpenAIRE Guidelines: For Literature repositories [Accessed 18 August 2014]

The use of info:eu-repo/semantics is recommended by the OpenAIRE Guidelines.

https://wiki.surfnet.nl/display/standards/info-eu-repo#info-eu-repo-Publicationtypes [Accessed 18 August 2014]

Term	Description	Used by
		project*
article	article or an editorial published in a journal. (ed.	DRIVER
	Should this be specified specifically as an Scholarly	SURF
	article? Or does this list of publication types define a	NEEO
	scholarly context by default?)	
bachelorThesis	lowest level of a thesis (normally after three years	DRIVER
	of study). See also	SURF
	http://en.wikipedia.org/wiki/Diplom	
masterThesis	intermediate level of a thesis (normally after four or	DRIVER
	five years of study). See also	SURF
	http://en.wikipedia.org/wiki/DiplomThis also refers	
	to theses of the pre-Bologna period for degrees that	
	are at the same level as what now is known as a	
	master degree	
doctoralThesis	highest level of a thesis normally after more than	DRIVER
	four or five years of study. See also	SURF
	http://en.wikipedia.org/wiki/DiplomAlso everything	
	equal and higher then a Doctoral thesis, that does	
	not follow the "Bologna Convention", will be put in	
	the category doctoralThesis. A free text field will	
	Provide the opportunity to specify this further	
book	book or monograph	DRIVER
		SURF
bookPart	part or chapter of a book	DRIVER
		SURF
review	review of a book or article	DRIVER
conferenceObject	all kind of documents related to a conference, p.e.	DRIVER
	conference papers, conference reports, conference	
	lecture, papers published in conference	
	proceedings, conference contributions, reports of	
	abstracts of conference papers and conference	
	posters	
lecture	lecture or presentation presented during an	DRIVER
	academic event, e.g., inaugural lecture. Excluded is	SURF
	a conference lecture (see conferenceItem)	
workingPaper	a preliminary scientific or technical paper that is	DRIVER
	published in a series of the institution where the	SURF
	research is done. Also known as research paper,	
	research memorandum or discussion paper. The	

	difference with a preprint is that a workingPaper is	
	published in a institutional series. Examples are:	
	working papers, research papers, research	
	memoranda and discussion papers	
preprint	like a workingPaper this is a preliminary scientific or	DRIVER
	technical paper, but it is not published in a	SURF
	institutional series. The paper is intended to be	
	published in a scientific journal or as a chapter in a	
	book	
report	this is a more or less a rest category and covers	DRIVER
	commission reports, memoranda, external research	SURF
	reports, internal reports, statistical report, reports	
	to funding agency, technical documentation, project	
	deliverables etc. Excluded are conference reports	
	(See conferenceItem)	
annotation	note to a legal judgment	DRIVER
		SURF
contributionToPeriodical	contribution to a newspaper, weekly magazine or	DRIVER
	another non-academic periodical	SURF
patent	patent	DRIVER
		SURF
other	especially meant for non-publication data like	DRIVER
	research data, audio-visual materials, animations	
	etc.	
conferenceObject	All kinds of documents related to a conference, e.g.,	DRIVER
	conference papers, conference reports, conference	
	lecture, papers published in conference	
	proceedings, conference proceedings, conference	
	contributions, reports of abstracts of conference	
	papers and conference posters	
reportPart	part of a report	SURF
bookReview	book review	SURF
conferencePaper	paper published in conference proceedings	SURF
researchProposal	documentation for grant request	SURF
studentThesis	this refers to theses of the pre-Bologna period for	SURF
	degrees that are at the same level as what now is	
	known as a master degree	
technicalDocumentation	technical documentation	SURF
conferencePaper	nanar nublished in conformed proceedings	NEEO
conteneer aper	paper published in conference proceedings	INEEO

conferenceProceedings	the conference proceedings	NEEO
conferenceContribution	contribution to a conference but not published in a	NEEO
	conference	
conferencePaper	paper published in conference proceedings DAF	
ConferenceItem	contribution to a conference but not published in a	UKOLN
	conference	
ConferencePaper	contribution to a conference but not published in a	UKOLN
	conference	
ConferencePoster	contribution to a conference but not published in a	UKOLN
	conference	

conferenceObject of Driver includes all other conference-related publications. This can be used if none of the more specific publication types comply.

Within conferenceObject are two types: conferenceProceedings as proposed by NEOO and ConferenceItem from the vocabulary of UKOLN. The type conferenceProceedings is used for authors who want to include the conference proceedings of which they are the editor. It is helpful if conference proceedings are contained in the repositories as compound objects. ConferenceItem is not really necessary, because there are more specific types who cover all sorts of ConferenceItems: ConferencePaper and conferenceContribution. The distinction between these two subtypes is the whether or not it's included in conference proceedings. conferenceContribution has a subtype: conferencePoster. Not published readings for a conference are a conferenceObject, a ConferenceItem and a ConferenceContribution. The class-subclass relations can be represented with the following hierarchy.

conferenceObject

conferenceProceedings

ConferenceItem

conferencePaper = ConferenceItem in conferenceProceedings

conferenceContribution = ConferenceItem not in conferenceProceedings

conferencePoster

The term conferenceContribution is confusing. A more clear term is concerenteItemNotInProceedings. The proposal is to adopt conferenceObject, conferenceProceedings, conferencePaper, conferenceItemNotInProceedings, conferenceContribution (owl:sameAs conferenceNotInProceedings; the latter is the preferred term) and conferencePoster in the info:eu-repo/semantics namespace. If we

specify in a more formal way the semantic relations, we can use ConferenceItem from the UKOLN vocabulary.

* Projects used for input to info:eu-repo/semantics:

DRIVER Guidelines (DRIVER)

Project SamenInDelen (SamenInDelen)

NEEO Technical guidelines (NEEO)

Use of MODS for institutional repositories (SURFshare)

OpenAIRE Guidelines for CRIS Managers based upon CERIF-XML (draft 2014)

https://guidelines.openaire.eu/wiki/OpenAIRE Guidelines: For CRIS [Accessed 18 August 2014]

These guidelines provide the following controlled vocabulary for publication types as defined in CERIF Semantics "Output Types" scheme:

Book; Book Review; Book Chapter Abstract; Book Chapter Review; Inbook; Anthology; Monograph; Referencebook; Textbook; Encyclopedia; Manual; Otherbook; Journal; Journal Issue; Journal Article; Journal Article Abstract; Journal Article Review; Conference Proceedings; Conference Proceedings Article; Conference Abstract; Conference Poster; Letter; Letter to Editor; PhD Thesis; Doctoral Thesis; Supervised Student Publications; Report; Short Communication; Poster; Presentation; Newsclipping; Commentary; Annotation; Transliteration; Translation; Authored Book; Edited Book; Chapter in Book; Scholarly Edition; Conference Contribution; Working Paper; Research Report for external body; Confidential Report (for external body); Encyclopedia Entry; Magazine Article; Dictionary Entry; Online Resource; Standard and Policy

CERIF - the Common European Research Information Format 1.5

CERIF is a conceptual model describing the research domain. The CERIF model was recommended by the European Commission in 1991 and 2000. In 2002, responsibility for CERIF activities was entrusted to euroCRIS: The European Organisation for International Research Information.

The CERIF vocabulary includes a large number of terms split into various classes. They include the following output types:

cfClassification Term	cfClassificationDefinition	
Book	A book is a collection of leaves of paper, parchment, vellum, cloth, or other material (written, printed, or blank) fastened together along one edge, with or without a protective case or cover.	
Book Review	A book review is an evaluative account of a recent book, usually written and signed by a qualified person, for publication in a current newspaper, magazine, or journal.	
Book Chapter Abstract	A book chapter abstract is a brief, objective representation of the essential content of a book chapter, presenting the main points in the same order as the original but having no independent literary value.	
Book Chapter Review	A book chapter review is an evaluative account of a recent book chapter, usually written and signed by a qualified person, for publication in a current newspaper, magazine, or journal.	
Inbook	An inbook is a part of a book, usually untitled. May be a chapter (or section or whatever) and/or a range of pages.	
Anthology	An anthology is a collection of extracts or complete works by various authors, selected by an editor for publication in a single volume or multivolume set. Anthologies are often limited to a specific literary form or genre (short stories, poetry, plays) or to a national literature, theme, time period, or category of author.	
Monograph	A monograph is a relatively short book or treatise on a single subject, complete in one physical piece, usually written by a specialist in the field. Monographic treatment is detailed and scholarly but not extensive in scope.	
Referencebook	A referencebook is a book designed to be consulted when authoritative information is needed, rather than read cover to cover. Reference books often consist of a series of signed or unsigned "entries" listed alphabetically under headwords or headings, or in some other arrangement (classified, numeric, etc.).	

Textbook	A textbook is an edition of a book specifically intended for the use of students who are enrolled in a course of study or preparing for an examination on a subject or in an academic discipline, as distinct from the trade edition of the same title. Also refers to the standard work used for a specific course of study, whether published in special edition or not.	
Encyclopedia	An enyclopedia is a book or numbered set of books containing authoritative summary information about a variety of topics in the form of short essays, usually arranged alphabetically by headword or classified in some manner. An entry may be signed or unsigned, with or without illustration or a list of references for further reading. Headwords and text are usually revised periodically for publication in a new edition.	
Manual	A manual refers to a book or pamphlet containing practical instructions, rules, or steps for performing a task or operation, assembling a manufactured object, or using a system or piece of equipment. Used synonymously with handbook (ODLIS Dictionary). A manual is a book that tells you how to do or operate something, especially one that comes with a machine (Grey Literature Typology.	
Otherbook	Uncertain of definition	
Journal	A journal is a periodical devoted to disseminating original research and commentary on current developments in a specific discipline, subdiscipline, or field of study (example: Journal of Clinical Epidemiology), usually published in quarterly, bimonthly, or monthly issues sold by subscription (click here to see an example). Journal articles are usually written by the person (or persons) who conducted the research.	

Journal Article	A journal article is a self-contained nonfiction prose
composition on a fairly narrow topic or subject, v	
	one or more authors and published under a separate title
	in a collection or periodical containing other works of the
	same form.
Journal Article Abstract	A journal article abstract is a brief, objective
Journal Article Abstract	representation of the essential content of an article,
	presenting the main points in the same order as the
	original but having no independent literary value.
Journal Article Review	A journal article review is an evaluative account of a
	recent of a newly published literary or scholarly work,
	usually written and signed by a qualified person, for
	publication in a current newspaper, magazine, or journal.
Conference Proceedings	A conference proceeding is a collection of articles,
	published abstracts or posters gathered from a
	conference. Can have several editors.
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Conference Proceedings	A conference proceedings article is an article that has
Article been presented at a conference. Articles has been	
	collected and published in a proceeding.
Letter	A letter (also known as "communication") is a brief
	description of important new research.
Letter to Editor	A letter, usually printed at the discretion of the publisher
	on the editorial page of a newspaper or magazine, in
	which a reader expresses his or her views on the subject of
	a previously published article or editorial, or on the
	editorial policy of the publication in general, sometimes
	followed by a brief response from the editor(s).
PhD Thesis	A PhD Thesis, is a Dissertation/Thesis that leads to the
	acquirement of a Ph.D. Degree.
Doctoral Thesis	A Doctoral Thesis is a Dissertation/Thesis that leads to the
	acquirement of a doctoral degree.
Report	A report is a separately published record of research
	findings, research still in progress, or other technical
	findings, usually bearing a report number and sometimes a
	grant number assigned by the funding agency.

Short Communication	A short communication is a concise, but independent	
	report representing a significant contribution to a subject.	
Poster	A poster is a visual presentation of an academic subject	
	presented at a conference.	
Presentation	Uncertain of definition	
Newsclipping	A newsclipping is an article published in a newspaper,	
	newsmagazine, or online news service, reporting the	
	details of a current event or the latest information on a	
	topic of general interest. News stories are usually short	
	and often unattributed.	
Commentary	A commentary is a written explanation or criticism or	
	illustration that is added to a book or other textual	
	material.	
Annotation		
Transliteration		
Translation	Translations of books and articles that identify	
	modifications to the original edition, such as a new or	
	revised preface.	
Authored Book	Books written by a single author or collaboratively based	
	on research or scholarly findings generally derived from	
	peer reviewed funding.	
Edited Book	Books edited by a single author or collaboratively for the	
	dissemination of research or scholarly findings that	
	generally result from peer reviewed funding.	
Chapter in Book	Texts written by a single author or collaboratively based	
	on research or scholarly findings and expertise in a field.	
Calcalant Faltina		
Scholarly Edition	A scholarly edition of a text is an edition that is reliable	
	and useful for scholarly purposes. In order to fulfil such	
	purposes, a scholarly edition must live up to high standards.	
Conference Contribution	Stallualus.	
Conference Contribution		
Working Paper	Preliminary versions of articles that have not undergone	
	review but that may be shared for comment.	
Artefact		
Devices and products		
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Performance	Collection of information records that, in combination, represent a full and up-to-date history of artistic or performance outputs resulting from, or related to, the person's research or scholarly activities. Works may be produced alone or collaboratively as a creative practice that lead to production and dissemination.
Exhibition	Showings of works of art under the direction of a curator, an artist or as a graduation exhibition.
Patent / published patent	
application	
Composition	
Design	
Research report for external	
body.	
Confidential Report (for	
external body).	
Software	Software is a generic term for computer programs and their associated documentation, as opposed to data used as input and generated as output.
Website content	Stand-alone locations on the web where multiple types of information on a specific theme are available. May include interactive features for contributions from readers.
Digital or visual media	
Research data sets and	A series of structured observations, measurements or
databases	facts identified from the research which can be stored in a database medium.
Other	
Journal Issue	Periodical publications aimed at fostering intellectual debate and inquiry. Special journal issues are produced by editors with an established record of scholarship in the field and able to provide the direction of the theme. Journal issues bear a unique number of reference for publication.

Supervised Student	Articles on research findings published jointly with or	
Publications	supervised by the thesis advisor. The findings relate to research undertaken by the student or the supervisor's	
	research undertaken by the student or the supervisor's	
	program of research.	
Encyclopedia Entry	Authored entries in a reference work or a compendium	
	focusing on a particular domain or on all branches of	
	knowledge.	
Magazine Article	Articles in thematic publications published at fixed	
	intervals.	
Dictionary Entry	Entries of new words, new meanings of existing words,	
	changes in spelling and hyphenation over a longer period	
	of time, and grammatical changes.	
Research Tool	Series of observations, measurements or facts identified	
	from the research. They include bibliographies, indices and	
	catalogues of research collections; concordances and	
	dictionaries; materials that facilitate access to archival	
	holdings or collections such as repository guides,	
	inventories of a group of manuscripts or of a body of	
	archives, inventories or documentary materials, thematic	
	guides to archival materials, records surveys and special	
	indices; scholarly editions; and data series.	
Online Resource	Information accessible only on the web via traditional	
	technical methods (ie hyperlinks).	
Test	Assessments that include tests designed for general	
	university selection, selection into specific courses or	
	other evaluation purposes.	
Conference Abstract	Texts of a specified length that states the issue to be	
	discussed in a proposed conference paper. It serves as the	
	basis for the acceptance of the paper at a conference. The	
	abstract is published along with the paper.	
Conference Poster	Doctors displayed in a conference setting and conveying	
Comerence Poster	Posters displayed in a conference setting and conveying research highlights in an efficient manner by compelling	
	graphics. They may be peer-reviewed prior to acceptance	
	and be published in the proceedings.	
	and be published in the proceedings.	

Musical Composition	Original musical scores available in a format for	
	dissemination. Original musical scores available in a format for	
Musical Performance		
	dissemination.	
Radio/TV Program	Programming produced for and broadcast on radio or TV.	
Script	Written versions of a play, film, broadcast or other	
	dramatic composition used in preparing for a performance	
	and annotated with instructions for the performance.	
Short Fiction	Original literary texts (prose or poetry).	
Theatric	Creation, production, dissemination of plays by	
	professional theatre artists and organizations. The	
	artifacts, such costumes, props, sets and scripts, may be	
	the object of a public exhibit.	
Video Recording	Works such as film, video, or new media developed as a	
	result of an artistic practice. May serve for commercial	
	purposes.	
Visual Artwork	Works such as film, video, or new media developed as a	
	result of an artistic practice. May serve for commercial	
	purposes.	
Sound Design	Art and process of manipulating audio elements to achieve	
	a desired effect. It is employed in a variety of disciplines	
	including film, theatre, music recording, and live music	
	performance. It involves the manipulation of previously	
	composed audio or the creative composition of new audio.	
Set Design	Creations of theatrical, as well as film or television scenery	
Jet Jesign	(also known as stage design, scenic design or production	
	design).	
Light Design	Works done within theatre or in relation to an art	
- -	installation to design a production.	
Choreography	Dance compositions created for production and	
	dissemination.	
Curatorial/Museum	Collection of information records that, in combination,	
Exhibitions	represent a full and up-to-date history of the intellectual	
property owned by the person and resulting fr		
	related to, the person's research activities.	
	related to, the person's research detivities.	

Intellectual Property	Collection of information records that, in combination,
	represent a full and up-to-date history of the intellectual
	property owned by the person and resulting from, or
	related to, the person's research activities.
License	Signed agreements to exploit a piece of IP such as a
	process, product, data, or software.
Disclosure	Publications that establish inventions as prior art thereby
	preventing others from patenting the same invention or concept.
Registered Copyright	Registered ownership of rights under a system of laws for
	promoting both the creation of and access to artistic,
	literary, musical, dramatic and other creative works.
Trademark	Marks such as a name, word, phrase, logo, symbol, design,
	image of a product or service that indicates the source and
	provides the right to control the use of the identifier.
Standard and Policy	The development of a rule or principle that is used as a
	basis for judgement.
Technical Standard	Technical Standards (industrial or otherwise) that have
	originated from the research projects in which new
	protocols, methods or materials may be developed.
Research Techniques	A practical methods or skills applied to particular tasks
	identified as part of the research.
Invention	Practical and original outputs arising from research.
Litigation	The act or process of contesting at law.

Appendix 5 - Other UK guidelines

REF2014 Output collection formats

http://www.ref.ac.uk/media/ref/content/submissions/outputguidance/REF2014%20output %20collection%20formats%20guidance.docx [Accessed 18 August 2014]

The following outputs are defined as part of the REF2014 Research Excellence Framework submission process: (Parts of) Books (Authored book; Edited book; Chapter in book; Scholarly edition); Journal articles (Journal article; Conference contribution; Working paper); Physical artefacts (Artefact; Devices and products); Exhibitions and performances (Exhibition; Performance); Other documents (Patent/ published patent application; Composition; Design; Research report for external body; Confidential report for external body); Digital artefacts (Software; Website content; Digital or visual media; Research datasets and databases); Other.

Researchfish

https://www.researchfish.com/questions [Accessed 8 September 2014]

The seven UK Research Councils are harmonising their collection of information on research outputs and outcomes using Researchfish.

This allows for the following item types:

Book; Book Chapter; Book edited; Conference/Paper/Proceeding/Abstract; Journal Article/Review; Manual/Guide; Monograph; Policy briefing report; Technical Report; Technical Standard; Thesis; Other; Consultancy Report; Working Paper

Appendix 6 - International guidelines

Bibliographic Ontology (BIBO)

http://bibotools.googlecode.com/svn/bibo-ontology/trunk/doc/index.html [Accessed 18 August 2014]

The Bibliographic Ontology Specification provides main concepts and properties for describing citations and bibliographic references (i.e. quotes, books, articles, etc) on the Semantic Web using RDF. It has been created by Frédérick Giasson (http://fgiasson.com/) and Bruce D'Arcus.

It includes: AcademicArticle; Article; AudioDocument; AudioVisualDocument; Bill; Book; BookSection; Brief; Chapter; Code; CollectedDocument; Collection; Conference; CourtReporter; Document; DocumentPart; DocumentStatus; EditedBook; Email; Event; Excerpt; Film; Hearing; Image; Interview; Issue; Journal; LegalCaseDocument; LegalDecision; LegalDocument; Legislation; Letter; Magazine; Manual; Manuscript; Map; MultiVolumeBook; Newspaper; Note; Patent; Performance; Periodical; PersonalCommunication; PersonalCommunicationDocument; Proceedings; Quote; ReferenceSource; Report; Series; Slide; Slideshow; Standard; Statute; Thesis; ThesisDegree; Webpage; Website; Workshop.

Consortia Advancing Standards in Research Administration Information (CASRAI)

http://dictionary.casrai.org/research-personnel-profile/contributions/outputs [Accessed 18 August 2014]

The Consortia Advancing Standards in Research Administration Information (CASRAI) is a non-profit standards development organisation. It is an international community of research funders and institutions which collaborate with the aim of ensuring seamless interoperability of research information. They develop and maintain a common data dictionary and seek to advance best practices for data exchange and reuse between research teams, institutions, and funding agencies throughout the entire life-cycle of research activity.

They use the term item type to record the budget to which an item belongs. Their best match to item types as used in repositories is their field 'Outputs' for which the options are:

Group	Sub-group	Definition
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Publications		Collection of information records that, in
		combination, represent a full and up-to-
		date history of research or scholarly
		published outputs resulting from, or related
		to, the person's research activities.
	Journal Articles	-
	Journal Articles	Articles in peer-reviewed publications that
		disseminate the results of original research
		and scholarship.
	Journal Issues	Periodical publications aimed at fostering
		intellectual debate and inquiry. Special
		journal issues are produced by editors with
		an established record of scholarship in the
		field and able to provide the direction of
		the theme. Journal issues bear a unique
		number of reference for publication.
	Books	Books written by a single author or
		collaboratively based on research or
		scholarly findings generally derived from
		peer reviewed funding.
	Edited Books	Books edited by a single author or
		collaboratively for the dissemination of
		research or scholarly findings that generally
		result from peer reviewed funding.
	Book Chapters	Texts written by a single author or
	Book Chapters	collaboratively based on research or
		scholarly findings and expertise in a field.
	Book Reviews	Critical review of works of fiction or non-
	DOOK REVIEWS	
		fiction highlighting the contributions to an
		art, field or discipline.
	Translations	Translations of books and articles that
		identify modifications to the original
		edition, such as a new or revised preface.
	Dissertations	Treatise advancing an original point of view
		resulting from research: a requirement for
		a doctoral degree.
	Supervised Student	Articles on research findings published
	Publications	jointly with or supervised by the thesis
		advisor. The findings relate to research
		undertaken by the student or the
		supervisor's program of research
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Newspaper Articles	Articles in a daily, weekly or monthly
ivewspaper Articles	publication reporting on news and social
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	issues aimed at the public. May entail
	critical analysis based on expertise in the
A	field.
Newsletter Articles	Articles in publications aimed at
	researchers, decision-makers, professionals
	and the public that report on a research
	project or on the activities of a research
	chair or a research centre. The Newsletters
	promote research activities to the
	community and the university; mobilize
	knowledge to improve practice and inform
	policy, and provide relevant and accessible
	information to the broader public.
Encyclopedia Entries	Authored entries in a reference work or a
	compendium focusing on a particular
	domain or on all branches of knowledge.
Magazine Articles	Articles in thematic publications published
	at fixed intervals.
Dictionary Entries	Entries of new words, new meanings of
	existing words, changes in spelling and
	hyphenation over a longer period of time,
	and grammatical changes.
Reports	Reports disseminating the outcomes and
	deliverables of a research contract. May
	entail a contribution to public policy.
Working Papers	Preliminary versions of articles that have
	not undergone review but that may be
	shared for comment.
Research Tools	Series of observations, measurements or
Research 10013	facts identified from the research. They
	include bibliographies, indices and
	catalogues of research collections;
	concordances and dictionaries; materials
	that facilitate access to archival holdings or
	collections such as repository guides,
	inventories of a group of manuscripts or of
	a body of archives, inventories or
	documentary materials, thematic guides to

		archival materials, records surveys and
		special indices; scholarly editions; and data
		series.
	Manuals	Course and assignment materials produced
		for teaching purposes.
	Online Resources	Information accessible only on the web via
		traditional technical methods (ie
		hyperlinks).
	Tests	Assessments that include tests designed for
		general university selection, selection into
		specific courses or other evaluation
		purposes.
	Websites	Stand-alone locations on the web where
	11000.000	multiple types of information on a specific
		theme are available. May include
		interactive features for contributions from
		readers.
Conferences		Collection of information records that, in
Comercinees		combination, represent a full and up-to-
		date history of conference-presented
		outputs resulting from, or related to, the
		person's research activities.
	Conference Papers	Papers written alone or collaboratively,
	connected tapers	presented at an academic conference, and
		published in the proceedings (not in
		scholarly journals).
	Conference	Texts of a specified length that states the
	Abstracts	issue to be discussed in a proposed
	Abstracts	conference paper. It serves as the basis for
		the acceptance of the paper at a
		conference. The abstract is published along
		with the paper.
	Conference Posters	Posters displayed in a conference setting
	Conference i Osters	and conveying research highlights in an
		efficient manner by compelling graphics.
		They may be peer-reviewed prior to
		acceptance and be published in the
		proceedings.
Artistic/Performance		Collection of information records that, in
A distic/relibilitatice		· ·
		combination, represent a full and up-to-

T	T
	date history of artistic or performance
	outputs resulting from, or related to, the
	person's research or scholarly activities.
	Works may be produced alone or
	collaboratively as a creative practice that
	lead to production and dissemination.
Artistic Exhibitions	Showings of works of art under the
	direction of a curator, an artist or as a
	graduation exhibition.
Audio Recording	Works such as classical or aboriginal music
	produced as a result of an artistic practice.
	May be produced and be commercially
	disseminated.
Exhibition	Publications for a temporary exhibition or
Catalogues	installation at a gallery or alternative space.
	It documents the contents of an exhibition,
	providing a forum for critical dialogue
	between curators, artists and critics. It
	serves as a scholarly resource and is eligible
	for prestigious prizes.
Musical	Original musical scores available in a format
Compositions	for dissemination.
Musical	Original musical scores available in a format
Performances	for dissemination.
Radio/TV Programs	Programming produced for and broadcast
	on radio or TV.
Scripts	Written versions of a play, film, broadcast
	or other dramatic composition used in
	preparing for a performance and annotated
	with instructions for the performance.
Short Fiction	Original literary texts (prose or poetry).
Theatric	Creation, production, dissemination of
	plays by professional theatre artists and
	organizations. The artifacts, such costumes,
	props, sets and scripts, may be the object
	of a public exhibit.
Video Recordings	Works such as film, video, or new media
	developed as a result of an artistic practice.
	May serve for commercial purposes.
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	Visual Artworks	Works such as film, video, or new media
		developed as a result of an artistic practice.
		May serve for commercial purposes.
	Sound Design	Art and process of manipulating audio
		elements to achieve a desired effect. It is
		employed in a variety of disciplines
		including film, theatre, music recording,
		and live music performance. It involves the
		manipulation of previously composed audio
		or the creative composition of new audio.
	Set Design	Creations of theatrical, as well as film or
		television scenery (also known as stage
		design, scenic design or production design).
	Light Design	Works done within theatre or in relation to
		an art installation to design a production.
	Choreography	Dance compositions created for production
		and dissemination.
	Curatorial/Museum	Exhibits under the guidance of a curator
	Exhibitions	responsible for a collection.
	Performance Art	Avant-garde or conceptual pieces of music,
		song, dance or theatre performed for an
		audience. It may be scripted or
		improvisational.
Intellectual Property		Collection of information records that, in
		combination, represent a full and up-to-
		date history of the intellectual property
		owned by the person and resulting from, or
		related to, the person's research activities.
	Patents	A form of IP protection that defines the
		exclusive right by law for inventors and
		assignees to make use of and exploit their
		inventions, products or processes, for a
		limited period of time.
	Licenses	Signed agreements to exploit a piece of IP
		such as a process, product, data, or
		software.
	Disclosures	Publications that establish inventions as
		prior art thereby preventing others from
		patenting the same invention or concept.
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	Registered	Registered ownership of rights under a
	Copyrights	system of laws for promoting both the
		creation of and access to artistic, literary,
		musical, dramatic and other creative works.
	Trademarks	Marks such as a name, word, phrase, logo,
		symbol, design, image of a product or
		service that indicates the source and
		provides the right to control the use of the
		identifier.
Other Outputs		Collection of information records that, in
		combination, represent a full and up-to-
		date history of other types of research or
		scholarly outputs resulting from, or related
		to, the person's research activities.
	Standards and	The development of a rule or principle that
	Policies	is used as a basis for judgement.
	Technical Standards	Technical Standards (industrial or
		otherwise) that have originated from the
		research projects in which new protocols,
		methods or materials may be developed.
	Spin Off Companies	A company set up by a Research
		Organization to make commercial use of
		the results and findings of the Research
		project.
	Research	A practical methods or skills applied to
	Techniques	particular tasks identified as part of the
		research.
	Inventions	Practical and original outputs arising from
		research.
	Litigation	The act or process of contesting at law.
	Data Sets	A series of structured observations,
		measurements or facts identified from the
		research which can be stored in a database
		medium.

Schema.org

http://schema.org/docs/full.html [Accessed 18 August 2014]

Schema.org provides a collection of schemas that can be used by webmasters to markup HTML pages in ways recognised by major search providers, and also structured data interoperability (e.g. in JSON). It is a work in progress and there is no direct mapping to the types of items in institutional repositories.

Creative work has been selected as the most appropriate section of Schema to consider. It includes the following item types:

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Answer
Article (BlogPosting; NewsArticle; ScholarlyArticle; MedicalScholarlyArticle; TechArticle; APIReference)
Blog
Book
Clip (RadioClip; TVClip)
Code
Comment
DataCatalog
Dataset
Diet
EmailMessage
Episode (RadioEpisode; TVEpisode)
ExercisePlan
ItemList
Мар
MediaObject (AudioObject; DataDownload; ImageObject; MusicVideoObject; VideoObject)
Movie

MusicPlaylist (MusicAlbum)
MusicRecording
Painting
Photograph
Question
Recipe
Review
Sculpture
Season (RadioSeason; TVSeason)
Series (RadioSeries; TVSeries)
SoftwareApplication (MobileApplication; WebApplication)
TVSeason
TVSeries
WebPage (AboutPage; CheckoutPage; CollectionPage (ImageGallery; VideoGallery); ContactPage; ItemPage; MedicalWebPage; ProfilePage; QAPage; SearchResultsPage)
WebPageElement (SiteNavigationElement; Table; WPAdBlock; WPFooter; WPHeader; WPSideBar)

Appendix 7 - Versioning guidelines

VERSIONS toolkit

http://www2.lse.ac.uk/library/versions/VERSIONS Toolkit v1 final.pdf [Accessed 18 August 2014]

The VERSIONS (Versions of Eprints – a user Requirements Study and Investigation Of the Need for Standards) project addressed the issues and uncertainties relating to versions of academic papers in digital repositories. The project proposed five version types: Draft; Submitted Version; Accepted Version; Published Version; Updated Version.

Journal Article Versions (JAV): Recommendations of the NISO/ALPSP JAV Technical Working Group April 2008

http://www.niso.org/publications/rp/RP-8-2008.pdf [Accessed 18 August 2014]

These recommendations proposed seven version types: Author's Original (AO); Submitted Manuscript Under Review (SMUR); Accepted Manuscript (AM); Proof (P); Version of Record (VoR); Corrected Version of Record (CVoR); Enhanced Version of Record (EVoR).

Appendix 8 - Comparison of item types included in the various guidelines

IRUS-UK item types version 2	Item types recommended in the various guidelines considered (number in brackets refer to the guidelines (list below))
Art/Design Item	Designs (3); Non-textual form: Design (5); Art/Design item (8); Design (14); Design (15); Visual Artworks (18); Painting (19); Sculpture (19).
Article	Article (1); Journal articles (3); Journal Article (4); Journal Article Abstract (4); Letter (4); Letter to Editor (4); Contribution to journal: Article (5); Contribution to journal: Meeting abstract (5); Contribution to journal: Letter (5); Contribution to journal: Comment/debate (5); Contribution to journal: Editorial (5); Contribution to specialist publication: Article (5); Contribution to specialist publication: Featured article (5); Contribution to specialist publication: Editorial (5); Contribution to specialist publication: Letter (5); Journal Item (6); Journal Article; Submitted (6); Journal Article (6); Journal Article (7); Journal Item (7); Submitted Journal Article (7); Journal articles (9); Articles (10); Articles (11); ContributionToPeriodical (11); Articles (12); ContributionToPeriodical (12); Journal Articles (13); Journal Articles (13); Letter (13); Letter to Editor (13); Magazine Articles (13); Journal Articles (14); Journal Articles (14); Letter (14); Letter to Editor (14); Magazine Articles (14); Journal Articles (15); Journal Articles (16); AcademicArticles (17); Articles (17); Journal Articles (18); Articles (19); BlogPosting (19); NewsArticles (19); ScholarlyArticles (19); MedicalScholarlyArticles (19); APIReference (19).
Audio	Audio (1); Sound (2); Audio (10); AudioDocument (17); Audio recording (18); RadioClip (19); RadioEpisode (19); AudioObject (19); RadioSeason (19); RadioSeries (19).
Book	Book (1); Monograph (1); Books (3); Scholarly editions (3); Book (4); Inbook (4); Anthology (4); Monograph (4); Referencebook (4); Textbook (4); Encyclopedia (4); Otherbook (4); Book/Report: Book (5); Book/Report: Anthology (5); Book/Report: Scholarly edition (5); Book (6); Book (7); Scholarly Text (7); Books, sections and chapters (9); Books (10); book (11); book (12); Book (13); Anthology (13); Referencebook (13); Textbook (13); Monograph (13); Encyclopedia (13); Otherbook (13); Authored Book (13); Edited Book (13); Scholarly Edition (13); Book (14); Anthology (14); Monograph (14); Referencebook (14); Textbook (14); Encyclopedia (14); Otherbook (14); Authored Book (15); Edited Book (15); Scholarly

	edition (15); Book (16); Book edited (16); Monograph (16); Book (17); EditedBook (17); MultiVolumeBook (17); Books (18); Edited Books (18); Book (19).
Book Section	Book section (1); Chapters (3); Book Chapter Abstract (4); Chapter in Book/Report/Conference proceeding: Chapter (peer-reviewed) (5); Chapter in Book/Report/Conference proceeding: Chapter (5); Chapter in Book/Report/Conference proceeding: Entry for encyclopedia/dictionary (5); Chapter in Book/Report/Conference proceeding: Foreword/postscript (5); Chapter in Book/Report/Conference proceeding: Other chapter contribution (5); Book Item (6); Book Item (7); Books, sections and chapters (9); Book sections (10); bookPart (11); bookPart (12); Book Chapter Abstract (13); Inbook (13); Chapter in Book (13); Encyclopedia Entry (13); Dictionary Entry (13); Book Chapter Abstract (14); Inbook (14); Chapter in Book (14); Encyclopedia Entries (18).
Conference or Workshop Item	Conference item (1); Conferences (3); Posters (3); Conference Proceedings (4); Conference Proceedings Article (4); Poster (4); Presentation (4); Chapter in Book/Report/Conference proceeding: Conference contribution (5); Contribution to conference: Paper (5); Contribution to conference: Poster (5); Contribution to conference: Other (5); Conference Item (6); Conference Paper (6); Conference Poster (6); Conference Item (7); Conference Paper (7); Conference Poster (7); Conference and workshop papers (9); Conference or workshop items (10); conferenceObject (11); conferenceObject (12); conferenceContribution (12); conferenceItem (12); conferenceProceeding (12); conferencePaper (12); conferencePoster (12); Conference Proceedings (13); Conference Proceedings Article (13); Conference Abstract (13); Conference Poster (13); Poster (13); Presentation (13); Conference Contribution (13); Conference Proceedings (14); Conference Proceedings Article (14); Poster (14); Poster (14); Conference Poster (14); Conference Contribution (15); Conference/Paper/Proceeding/Abstract (16); Conference (17); Proceedings (17); Workshop (17); Slide (17); Slideshow (17); Conference Papers (18); Conference Abstracts (18); Conference Posters (18).
Dataset	Dataset (1); Dataset (2); Datasets (3); Non-textual form: Data set/Database (5); Datasets (9); Datasets (10); Research data sets and databases (14); Research datasets and databases (15); Data Sets (18); DataCatalog (19); Dataset (19); DataDownload (19).
Exam Paper	Test (14).
Image	Image (1); Image (2); Images (10); Digital or visual media (14); Digital or visual media (15); Image (17); Map (17); Map (19); ImageObject (19); Photograph (19).

Journal	Journal (4); Contribution to journal: Special issue (5); Contribution to specialist publication: Special issue (5); Journal (13); Journal Issue (13); Journal (14); Journal Issue (16); Journal Issue (14); Journal (17); Magazine (17); Periodical (17); Journal Issues (18).
Learning Object	Teaching resource (1); Content-packaged learning objects (9); Course materials (10); Study skills, support and revision materials (10); lecture (11); lecture (12).
Moving Image	Video (1); Multimedia and audio-visual materials (9); Video (10); Radio/TV Program (14); Video Recording (14); Visual Artwork (14); AudioVisualDocument (17); Film (17); Video Recordings (18); TVClip (19); TVEpisode (19); VideoObject (19); Movie (19); TVSeries (19).
Music/Musical Composition	Composition (1); Compositions (3); Non-textual form: Composition (5); Composition (10); Composition (14); Musical Composition (14); Composition (15); Musical Compositions (18); Musical Performances (18); MusicVideoObject (19); MusicAlbum (19); MusicRecording (19).
Other	Other (1); Artefact (1); Experiment (1). Software (2); Collection (2); Event (2); InteractiveResource (2); Service (2). Software (3); Artefacts (3); Other (3). Commentary (4); Annotation (4). Non-textual form: Software (5); Non-textual form: Digital or Visual Products (5); Non-textual form: Artefact (5); Memorandum/exposition: Memorandum (5); Memorandum/exposition: Question & Answer/hearing (5); Contribution to memorandum/exposition: Memorandum contribution (5); Contribution to memorandum/exposition: Question & Answer/hearing contribution (5); Other contribution: Other contribution (5). Other special items (9); Bibliographic references (metadata only) (9); Software (9). Curricula and syllabuses (10); Course validation documents (10); Assessment materials (10); Student-produced work (10); Artefact (10); Experiment (10). annotation (11); other (11).

	annotation (12); other (12); researchProposal (12); technicalDocumentation (12).
	Supervised Student Publications (13); Annotation (13); Transliteration (13); Translation (13); Standard and Policy (13).
	Supervised Student Publications (14); Annotation (14); Transliteration (14); Translation (14); Artefact (14); Devices and products (14); Software (14); Other (14); Research Tool (14); Sound Design (14); Set Design (14); Light Design (14); Choreography (14); Intellectual Property (14); License (14); Disclosure (14); Registered Copyright (14); Trademark (14); Standard and Policy (14); Technical Standard (14); Research Techniques (14); Invention (14); Litigation (14).
	Artefact (15); Devices and products (15); Software (15).
	Technical standard (16); Other (16).
	Bill (17); Brief (17); Chapter (17); Code (17); CollectedDocument (17); Collection (17); CourtReporter (17); Email (17); Event (17); Excerpt (17); Hearing (17); Interview (17); Issue (17); LegalCaseDocument (17); LegalDecision (17); LegalDocument (17); LegalDocument (17); Note (17); PersonalCommunication (17); PersonalCommunicationDocument (17); Quote (17); ReferenceSource (17); Standard (17); Standard (17).
	Translations (18); Supervised Student Publications (18); Dictionary Entries (18); Research Tools (18); Tests (18); Sound design (18); Set Design (18); Light Design (18); Choreography (18); Licenses (18); Disclosures (18); Registered Copyrights (18); Trademarks (18); Standards and Policies (18); Technical Standards (18); Spin Off Companies (18); Research Techniques (18); Inventions (18); Litigation (18).
	Code (19); Comment (19); Diet (19); EmailMessage (19); ExercisePlan (19); ItemList (19); Question (19); Recipe (19).
	Answer (19); Blog (19).
Patent	Patent (1); Patents (3); Patent: Patent (5); Patent (6); Patent (7); Patents (9); Patents (10); patent (11); patent (12); Patent / published patent application (14); Patent/ published patent application (15); Patent (17); Patents (18).
Performance	Performance (1); Performances (3); Non-textual form: Performance (5); Performance (8); Performance (10); Performance (14); Musical performance (14); Theatric (14); Performance (15); Performance (17); Radio/TV Programs; Theatric (18); Performance Art (18).

Preprint	preprint (11); preprint (12).
Report	Reports (3); Report (4); Short Communication (4); Book/Report: Commissioned report (5); Book/Report: Other report (5); Report (6); Report (7); Technical reports (10); Project reports (10); report (11); Report (12); reportPart (12); Short Communication (13); Research Report for external body (13); Confidential Report (for external body) (13); Report (14); Short Communication (14); Research report for external body (14); Confidential Report (for external body) (14); Research report for external body (15); Confidential report for external body (15); Technical Report (16); Consultancy Report (16); Policy briefing report (16); Report (17); Reports (18).
Review	Book Review (4); Review (4); Book Chapter Review (4); Contribution to journal: Book/Film/Article review (5); Contribution to journal: Scientific review (5); Contribution to specialist publication: Book/Film/Article review (5); Book Review (6); Book Review (7); review (11); bookReview (12); review (12); Book Review (13); Book Chapter Review (13); Journal Article Review (14); Book Chapter Review (19).
Show/Exhibition	Exhibition (1); Exhibitions (3); Non-textual form: Exhibition (5); Show/Exhibition (8); Show/ exhibition (10); Exhibition (14); Curatorial/Museum Exhibitions (14); Exhibition (15); Artistic Exhibitions (18); Exhibition Catalogues (18); Curatorial/Museum Exhibitions (18).
Text	Text (2); Manual (4); Newsclipping (4); Scholarly Text (6); News Item (6); News Item (7); Documentation & manuals (10); Manual (13); Newsclipping (13); Commentary (13); Manual (14); Newsclipping (14); Commentary (14); Script (14); Short Fiction (14); Manual/Guide (16); Newspaper (17); Document (17); DocumentPart (17); DocumentStatus (17); Manuals (17); Letter (17); Manuals (17); Newspaper Articles (18); Newsletter Articles (18); Magazine Articles (18); Manuals (18); Scripts (18); Short Fiction (18).
Thesis or dissertation	Thesis (1); Theses / Dissertations (3); PhD Thesis (4); Doctoral Thesis (4); Thesis: Doctoral Thesis (5); Thesis: Master's thesis (5); Thesis or Dissertation (6); Thesis or Dissertation (7); Theses and Dissertations (9); Doctoral theses (10); Masters theses & dissertations (10); Bachelors dissertations (10); bachelorThesis (11); masterThesis(11); doctoralThesis (11); bachelorThesis (12); masterThesis(12); doctoralThesis (12); studentThesis (12); PhD Thesis (13); Doctoral Thesis (13); PhD Thesis (14); Doctoral Thesis (14); Thesis (16); Thesis (17); ThesisDegree (17); Dissertations (18).
Unknown	

Website	Internet publications (3); Non-textual form: Web publication/site (5); Online Resource (13); Website content (14); Online Resource (14); Website content (15); Webpage (17); Website (17); Online Resources (18); Websites (18); AboutPage (19); CheckoutPage (19); ImageGallery (19); VideoGallery (19); ContactPage (19); ItemPage (19); MedicalWebPage (19); ProfilePage(19); QAPage(19); SearchResultsPage(19); WebPageElement (19); SiteNavigationElement (19); Table (19); WPAdBlock (19); WPFooter (19); WPHeader (19); WPSideBar (19).
Working Paper	Working paper: Working paper (5); Working paper: Discussion paper (5); Working or Discussion Paper (6); Working or Discussion Paper (7); Unpublis.hed reports & working papers (9); Working papers & discussion papers (10); workingPaper (11); workingPaper (12); Working Paper (13); Working Paper (14); Working paper (15); Working Paper (16); Working Papers (18)

- 1 EPrints
- 2 DCMITYPE (recommended by DSpace)
- 3 Symplectic
- 4 Converis
- 5 Pure
- 6 SWAP
- 7 IRIScotland
- 8 Kultur
- 9 Jisc InfoKit List 1
- 10 Jisc InfoKit: List 2
- 11 DRIVER
- 12 info:eu-repo/semantics (recommended by OpenAIRE)
- 13 OpenAIRE Guidelines for CRIS Managers based upon CERIF-XML
- 14 CERIF
- 15 REF2014
- 16 Researchfish
- 17 BIBO

- 18 CASRAI
- 19 Schema

Appendix 9 - IRS item types

This Appendix lists the item types in use in the 130 UK academic repositories harvested by IRS as at August 2012.

The table shows the numbers of each item type included in the IRS item type mappings for those item types which were recommended for use in IRUS-UK in versions 1.0 and 2.0 of this report. It is followed by a detailed listing of individual item types.

IRUS-UK item type	No. of items of each type in IRS as at August 2012
Art/Design Item	891
Article	606106
Audio	1233
Book	58863
Book Section	99800
Conference or Workshop Item	140281
Dataset	421
Exam Paper	N/K
Image	59986
Journal	3894
Learning Object	3034
Moving Image	2227
Music/Musical Composition	427
Other	N/K
Patent	936
Performance	498
Preprint	4790
Report	21053
Review	7874
Show/Exhibition	3962
Text	66950
Thesis or dissertation	57571
Unknown	N/K
Website	1438
Working Paper	6007

1; 10; 13; 14; 15; 16: 18; 19: 2; 20; 3; ; 5; 6; 7; 8; 9; ["eprint typename " not defined]; ["eprint_typename_report" not defined]; ["eprint_typename_review" not defined]; a; abstract; accepted; accepted manuscript; accepted version; addendum; aerial or satellite imagery; alps common competency map; application; artist s book; author post-print (nonrefereed); animation; annotations to an asp; annual report; application/pdf; applied archaeology collection; archives and special collections; artefact; artefact/device; artefacts; design and exhibitions; an article; article; article; article section; article (literature review; editorial); article / editorial; article; post-print; article; pre-print; article: post-print; article; presentation; article from non-refereed journal (author version); article from non-refereed journal (publisher version); articles; art design item; art/design item; art object; art/poetry/short story performance or reading; artwork; artwork/design object; assessment; audio; audio file; audio recording; audios; author post-print; author post-print (pre-copy editing); author post-print (refereed); author s final draft; author s original; author version; authored book; authored books; b; biography (individual); biosciences; blog; book; book; book/report/proceedings; book/s; book (monograph); book (monograph): section of book or chapter of book; book (monograph) editorial; book chapter; book chapter (conference proceedings); book chapter; preprint; book chapter; presentation; book chapter: author post-print (pre-copy editing); book chapter: publisher version; book chapters; book item; book or book chapter; book or report section; book review; book review; book reviews; book section; book sections; book section; book chapter; bookchapter; booklet; bookmarks; bookreview; briefing paper; broadcast; buildings; bw image; c; case report; case reports; case study; centaur administrative document; chapter; chapter in book; chapters in books; clinical investigation; clinical trial; phase i; cochrane review; collection; colour image; comment; letter; commentary; commentary series; commissioned report; comparative study; composition; compositions; conceptual learning object; conference; conference contribution; conference item; conference item; conference_item;paper; conference_item;poster; conference_item;presentation; conference item; speech; conference item; workshop; conference object; conference or workshop item; conference or workshop items; conference papaer; conference paper; conference papers; conference poster; conference preprint; conference presentation; conference proceedings; conference proceedings - peer reviewed; conference proceedings (peer reviewed); conference proceeding; conference publication; conference - published paper; conference report; conferenceobject; conferencepaper; conferenceproceedings; contribution in book/report/proceedings; course; crystal structure data holding; d; d.clin. philosophy; database; database/dataset; database or web resource; dataset; datasets; datasets / databases; dba; dclinpsy; dclinpsych; dclinpsy in clinical and community psychology; dclinpsych in clinical and community psychology; dclinpsych in clinical and community psychology; dclinpsychol doctorate in clinical psychology; dcounspsych; ded psy in educational; child and community psychology; dedpsy in educational; child & community psychology; dedpsy in educational; child; and community psychology; dedpsy; dedpsy in

educational; child and community psychology; deng doctor of engineering; departmental technical report; design; device/product; diagram; digital; digital artefact; digital dictionary; digital scholarly resource; digital terrain model; discussion or working paper; discussion paper; dissertation; dm; doctor of applied social research; doctor in clinical psychology (clinpsyd); doctor of clinical psychology in clinical and community psychology; doctor of education; edd doctor of education; doctor of education in education; doctor of philosophy in management studies; doctor of education in mathematics education; doctor of education in tesol; doctor of educational psychology in educational; child and community psychology; doctor of educational psychology in educational; child & community psychology; doctor of medicine (md); doctor of medicine (research) md (res); doctor of nursing; doctor of philosophy; doctor of philosophy (phd); doctor of philosophy in accounting; doctor of philosophy in arab and islamic studies; doctor of philosophy in biological sciences; doctor of philosophy in education; doctor of philosophy in english; doctor of philosophy in management studies; doctor of philosophy in sociology; doctor of philosophy in theology; doctor of science (dsc); doctoral; doctoral thesis; doctoral thesis or dissertation; doctorate by public works; doctorate in clinical and community psychology; doctorate of clinical and community psychology; doctorate of educational psychology in educational; child and community psychology; document from web; draft; drawn image; dsocsci; dvd; e; ebook; edd; edd in education; edd in educational psychology; edd in mathematics education; edd in special educational needs; edd in teaching english as a foreign language; edd in teaching english to speakers of other languages; edd in teaching english to speakers of other languages (tesol); edd in tesol; edd tefl; edd tesol; editedbook; edited book; edited books; edited special journal issue; editorial; editorial material; electronic book; electronic journal; electronic newspaper article; electronic thesis; encyclopedia entry; engd; engineering doctorate (engd); essay; ethnicity; evaluation report; evaluation studies; event or exhibition; exam; exam paper; exercise; exhibition; exhibition catalogue; external thesis; experiment; extract; f; figure; film; film/broadcast; film/video; final draft; final draft paper; final year project; fly; fre; funding application; g; game; gdp report; gis vector data; government publication; guide or manual; guidelines; h; honorary role; image; image; 3-d; image/jpeg; image (still); image (moving); in collection; in press; in vitro; index; nfo:eurepo/semantics/acceptedversion; info:eu-repo/semantics/article; info:eurepo/semantics/bachelorthesis; info:eu-repo/semantics/book; info:eurepo/semantics/bookpart; info:eu-repo/semantics/conferenceobject; info:eurepo/semantics/doctoralthesis; info:eu-repo/semantics/draft; info:eurepo/semantics/masterthesis; info:eu-repo/semantics/publishedversion; info:eurepo/semantics/report; info:eu-repo/semantics/review; info:eurepo/semantics/submittedversion; info:eu-repo/semantics/updatedversion; information resource; installation; invited lecture; interactive resource; interactiveresource; internet publication; irp report; j; journal; edited journal; journal (on-line/unpaginated); journal (paginated); journal article; journal - article; journal article - published version; journal

article - submitted version; journal (full / special issue); journal issue; journal item; journalarticle; I; leaflet; learning activity; learning material; learning object; lecture; lecture notes; lecture transcript; letter; letter to the editor; llm; llm master of laws; m.ed; ma; ma by research; ma early years; ma master of arts; manual; manuscript; map; marker paper / data plan; master of laws; master of letters; master of philosophy; master of philosophy (mphil); master of philosophy (m.phil.); master of philosophy in biological sciences; master of philosophy in management; master of science; masters; masters by research; masters by research.; masters by research in renewable energy; masters degree; masters dissertation; mba; mbyres; mbyres in biosciences; mbyres in theology and religion; md; md doctor of medicine; mdsc; med; med master of education; meetings & proceedings; meetings & proceedings; presentation; meetings and proceedings; miscellaneous conference item; mims preprint; mixed material; mlitt master of letters; mlitt master of literature; mmath; monograph; monograph; project; monographs; monthly archive; mov; moving image/broadcast; movingimage; moving image; mp3; mphil; mphil in arab and islamic studies; mphil in arabic and islamic studies; mphil in biological sciences; mphil in drama; mphil in english; mphil in geography; mphil in history; mphil in management studies; mphil in maritime history; mphil in performance practice (drama); mphil in physics; mphil in sport and health sciences; mphil in theology; mphil master of philosophy; mres; mres environmental biology; m.sc; m.sc.; msc; msc architecture: advanced energy and environmental studies; msc by res.; msc by research; msc econ; msc master of science; msc(r) master of science by research; multimedia; multimedia item; digital video; multimedia item; exhibition / installation; music item; musical score; mth; mth of theology; n; n/a; narrative text; newsletter; news; news item; newspaper/magazine article; non peerreviewed; nonpeerreviewed; not applicable; not applicable paper; not available; not peer reviewed; not published; not yet published; occasional paper; off-air recording; online db/computer file; official report; original artwork; other; other conference paper; other form of assessable output; other journal paper; other; presentation; part iii project report; part of book or chapter of book; partent; patent; patent; option 1; peer reviewed; peer reviewed conference paper; peer reviewed conference proceedings; peer-reviewed journal article; peer reviewed journal paper; peer-reviewed; peer-reviewed conference paper; peerreviewed; performance; performance/live event; periodical; ph.d; ph.d.; phd; phd (by publication); phd by publication in finance; phd doctor of philosophy; phd genomics in society; phd in accountancy; phd in arab and islamic studies; phd in arab & islamic studies; phd in arab and islamic studies; phd in archaeology; phd by publication in archaeology; phd in biological sciences; phd in biosciences; phd in chemistry; phd in classics; phd in computer science; phd in cornish studies; phd in drama; phd in earth resources; phd in economics; phd in education; phd in engineering; phd in english; phd in ethno-political studies; phd in european studies; phd in film; phd in film by practice; phd in film studies; phd in finance; phd in french; phd in genomics in society; phd in geo-environmental engineering; phd in geography; phd in geography and politics; phd in geotechnical engineering; phd in german;

phd in hispanic studies; phd in history; phd in italian; phd in leadership studies; phd in law; phd in management studies; phd in management studies?; phd in maritime history; phd in mathematics; phd in medical history; phd in medieval studies; phd in middle east politics; phd in modern languages; phd in music; phd in performance practice; drama; phd in performance practice (drama); phd in philosophy; phd in physics; phd in politics; phd in psychology; phd in sexuality and gender studies; phd in sociology; phd in sport & health sciences; phd in sport and health science; phd in sports and health sciences; phd management studies; phd sport & health sciences; phd sport and health sciences; phd in sport and health sciences; phd in theology; phd in water engineering; phd mathematics; phd physics; phd psychology; phd.; phd(p) doctor of philosophy by research publications; photograph; plan or blueprint; play; short story or poetry; podcast; poem; policy brief; policy paper; post-print; postdoctoral; postgraduate; poster; poster / presentation; poster presentation; post-print (author final draft post-refereeing); postprint; powerpoint presentation; pre-print; pre-print (pre-refereeing); preprint; presentation; press article; printed ephemera; problem statement; proceedings paper; professional activity; professional doctorate in clinical psychology (d.clin.psych.); professional doctorate in counselling psychology (d.coun.psych.); professional doctorate in educational and child psychology (d.ed.ch.psych.); professional doctorate in educational psychology (d.ed.psych.); professional doctorate in psychoanalytic psychotherapy (d.psych.psych.); project; project report; project report and bibliography; project summary; proof; published; published abstract; published article; published book; published book chapter; published conference or workshop item; published conference paper; published conferphd in modern languages; published editorial; published journal paper; published online; published version; published version paper; published vesion; publisher pdf; publisher s version; publisher version; publisher version (final published refereed version); publisher version (nonrefereed); publisher version (refereed); q; questionnaire; quiz; r; radio interview; recording; musical; recording; oral; recording; oral report; ref_case_study; refereed; refereed conference paper; refereed published conference paper; refereed published journal article; refereed published journal paper; report; reports/papers; report/paper; report; discussion paper; report; document; report; occassional paper; report; project report; research report; report; technical report; report; working paper; research reports; research masters; research monograph; research paper; research report; research report (external); research report or paper; research support; n.i.h.; extramural; research support; n.i.h.; intramural; research support; non-u.s. gov t; research support; u.s. gov t; non-p.h.s.; resource; resource bank; response to article; review; reviewed (other); revised version 12 march 2012; s; scanned map; screencast; short film; study group report; scholarly edition; scholarly text; self assessment;; short communication; short film available online; show / exhibition; show/exhibition; shows / exhibitions; shows/exhibitions; simulation; slide; software; software; multimedia; sound; sound / audio; sound recording; special issue; still image; still/graphic work; stillimage; submitted; submitted version; submitted journal article;

symposium; table; tabular data; taught course thesis; taught masters; teaching resource; technical documentation; technical report; technicalreport; text; theses; theses/dissertations; theses and dissertations; thesis; thesis; edd; thesis; msc by research; thesis or dissertation; thesis or dissertation; doctoral; doctor of education (de); thesis or dissertation; doctoral; doctor of medicine (md); thesis or dissertation; doctoral; doctor of philosophy (phd(r)); thesis or dissertation; doctoral; doctor of philosophy by research publications (phd(p)); thesis or dissertation; doctoral; doctor of philosophy(phd); thesis or dissertation; masters; doctor of philosophy (phd(r)); thesis or dissertation; masters; master of letters (mlt); thesis or dissertation; masters; master of philosophy (mph(r)); thesis or dissertation; masters; master of science (msc); thesis or dissertation; masters; master of science by research (mode a) (msc(r-a)); thesis or dissertation; masters; supervised postgraduate (spg); thesis; phd; thing; this is a review of a theatrical production; transcribed text; transcription; translations; tutorial; undergraduate; unpublished; unpublished conference or workshop item; updated author s original; updated version; updated publisher s version; video; video/film; video research; videos; visual media; visual or digital media; web page; web resource; web site; website content; web_publication; webpage; webpages; website; working / discussion paper; working or discussion paper; working paper; working paper; final version available online on sage journals online at http://ema.sagepub.com/; working paper; re-print; ;working or discussion paper; working/discussion paper; workbook; workshop; x-stream assessment

Appendix 10 – Actual usage of IRUS-UK item types by participating repositories from date of joining (earliest 5 July 2012) to April 2014

IRUS-UK item type	No. of items	Downloads to Apr-2014
Art/Design Item	109	2,762
Article	75,749	5,620,289
Audio	60	7,138
Book	12,772	1,647,827
Book Section	9,304	814,645
Conference or Workshop Item	23,040	1,162,631
Dataset	72	3,977
Exam Paper	5,357	71,655
Image	3,518	409,189
Journal	40	432
Learning Object	404	46,751
Moving Image	221	13,828
Music/Musical Composition	166	2,754
Other	5,083	247,416
Patent	155	2,017
Performance	87	5,018
Preprint	185	9,243
Report	7,570	530,606
Review	95	2,567
Show/Exhibition	788	25,244
Text	1,225	82,007
Thesis or dissertation	37,801	4,180,043
Unknown	7,167	15,850
Website	3,427	96,205
Working Paper	2,393	235,512

Appendix 11 Suitability of IRUS-UK item types and proposals for future use

IRUS-UK item type	Comments on suitability	Proposed future use
Art/Design Item	Recommended by Kultur and	Continue
	requested in feedback from	
	repository community	
	feedback. Not heavily used by	
	current IRUS-UK participants	
	but usage will increase as more	
	creative arts repositories join	
Article		Continue
Audio	Not heavily used by current	
	IRUS-UK participants but	
	anticipate usage will increase	
	with new participants based	
	upon IRS figures	
Book		Continue
Book Section		Continue
Conference or Workshop Item	Have received a request from	Split into 'Conference
	IRUS-UK CAG member to	Papers /Posters' and
	distinguish between Conference	'Conference
	Papers /Posters and Conference	Proceedings'. Where it
	Proceedings as the latter would	is impossible to map to
	be subject to further peer	either of these
	review and would be included	categories, use
	in funders' mandates.	'Conference or
		Workshop Item –
		Other'
	We could not ontially make a	
	We could potentially make a reasonable approximation to	
	this, using the supplementary	
	, , ,	
	item types Peer reviewed and NonPeerReviewed for those	
	repositories which use a generic	
	item type here eg Conference	
	or Workshop Item.	

Dataset	TITTE USED AS VELDIJI	Continue
	Little used as yet but anticipated that significant	Continue
	numbers of datasets will be	
	added to institutional	
	repositories going forward.	
	repositories going forward.	
	There are also some specific	
	data repositories and we need	
	to consider how best to report	
	on their usage in IRUS-UK.	
Exam Paper	-	Continue
Image		Continue
Journal	Little used and most usage is for	Discontinue and move
	images of front covers of	items mapped here to
	magazines hence little value in	'Image' or 'Other' as
	showing this separately	appropriate.
Learning Object	There are also some specific	Continue
	learning object repositories and	
	we need to consider how best	
	to report on their usage in IRUS-	
	UK.	
Moving Image		Continue
Music/Musical Composition		Continue
Other	Artefact, which is included here,	Continue
,	was suggested in feedback from	
	the repository community as a	
	separate item type but that	
	hasn't been implemented as	
,	this type appears to be used for	
	differing types of items across	
	current IRUS-UK participants.	
Patent	Mostly accurately used for	Continue
	actual patents but little used.	
Performance	Recommended by Kultur and	Continue
	requested in feedback from	
	repository community	
	feedback. Not heavily used by	
	current IRUS-UK participants	

	but usage will increase as more	
	creative arts repositories join	
Preprint	Little used, lack of clarity about	Continue but
	definition and potential that	investigate use of this
	many similar items are classed	item type prior to next
	as Articles	review of the use of
		item types by IRUS-UK.
Report		Continue
Review	Mostly book reviews in journals	Discontinue and move
		items mapped here to
		'Article'
Show/Exhibition	Recommended by Kultur and	Continue
	requested in feedback from	
	repository community	
	feedback. Not heavily used by	
	current IRUS-UK participants	
	but usage will increase as more	
	creative arts repositories join	
Text		Continue
Thesis or dissertation		Continue
Unknown		Continue
Website		Continue
Working Paper		Continue