



Jorum

Teaching and learning resources
created by the community for the community

Embedding into the learning environment

Peter Burnhill

Jorum Co-Director [with Jackie Carter, Mimas]

*Day Job: Director, EDINA national data centre
University of Edinburgh, UK*



Services Go

Projects Go

→ Reading & Reference



Article References

- CAB Abstracts
- Index to *The Times*
- Inspec
- Land, Life & Leisure

Journal Catalogues

- SUNCAT (UK)
- SALSER (Scottish)

E-books

- The Statistical Accounts of Scotland

Deposit Academic Papers

- the Depot

→ Maps & Data



Geo-data Portal

- Go-Geo!

Maps & Datasets

- Digimap - Ordnance Survey
- Geology Digimap
- Historic Digimap
- Marine Digimap
- UKBORDERS

Agricultural Census Data

- agcensus

→ Multimedia & Education



Film, Images & Sound

- Film & Sound Online
- Education Image Gallery

Learning Materials

- Jorum User

Deposit Learning Materials

- Jorum Contributor

News, Events & Training

Jorum to move to open access more...

What EDINA Does - Our Community Report updated more...

New DataShare project deliverables more...

EDINA - redesigned website more...

[all news](#)

[Quarterly Newsletter](#)

[Ways to contribute online](#)



[Our projects and middleware](#)



[For library and support staff](#)



= open to all

[What services can I use?](#)

research, learning & teaching in UK universities & colleges



*acting as platform for network-level services
& helping to build the JISC Integrated Information Environment*

Content,
Tools &
Infrastructure

National Data Centres



UK
Research
Councils

JISC Collections

JISC

JISC Sub-Committees



UK funding councils for HE & FE





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Purpose of Presentation

1. Open Educational Resource (OER) Vision

- online learning materials / e-learning

2. Jorum

- its role as national learning materials repository for UK

3. UKOER Programme

4. Re-shaping Jorum for OER

- JorumOpen and other licensing options
- Sharing, Finding, Discussing

1. OER & *ukoer* Vision

“...digitised materials offered freely and openly for educators, students and self-learners to use and reuse for teaching, learning and research.”

Giving Knowledge for Free: The Emergence of Open Educational Resources
Organisation for Economic Co-operation and Development (OECD, 2007)

“The UK must have a core of open access learning resources organised in a coherent way to support on-line and blended learning by all higher education institutions and to make it more widely available in non-HE environments.”

Sir Ron Cooke (as Chairman of JISC, 2008)

Some Milestones in OER

- 1998 - Open Content Initiative
- 2000 - UNESCO conference
- 2001 - Wikipedia
- 2002 - MIT OpenCourseWare [US]
- 2002 - Creative Commons
- 2006 - OU OpenLearn [UK]
- 2007 - Cape Town Open Educational Declaration
- 2009 - HEFCE/JISC/Academy OER (Pilot) Programme

(Adapted from Yuan et al (2008), <http://jisc.cetis.ac.uk/oerbriefing>)

National OER Programmes

- [ParisTech Open Course Ware](#)
- [Japan OpenCourseWare Consortium \(JOCW\)](#)
- [China Open Resources for Education \(CORE\)](#)
- [Irish Open](#)

+ Open Courseware Consortium

Acknowledgements to Lorna Campbell, Sheila MacNeill & Li Yuan (CETIS)

National OER Programmes

- [ParisTech Open Course Ware](#)
- [Japan OpenCourseWare Consortium \(JOCW\)](#)
- [China Open Resources for Education \(CORE\)](#)
- [Irish Open](#) [not golf – that would be the Scottish Open]

National OER Programmes

- [ParisTech Open Course Ware](#)
- [Japan OpenCourseWare Consortium \(JOCW\)](#)
- [China Open Resources for Education \(CORE\)](#)
- [Irish Open](#)
- [HEFCE/JISC/Academy OER Programme](#)

OER initiatives for the General Public

- **Wikiversity**

9,355 learning resources, all levels, types, and styles of education.

- **Curriki**

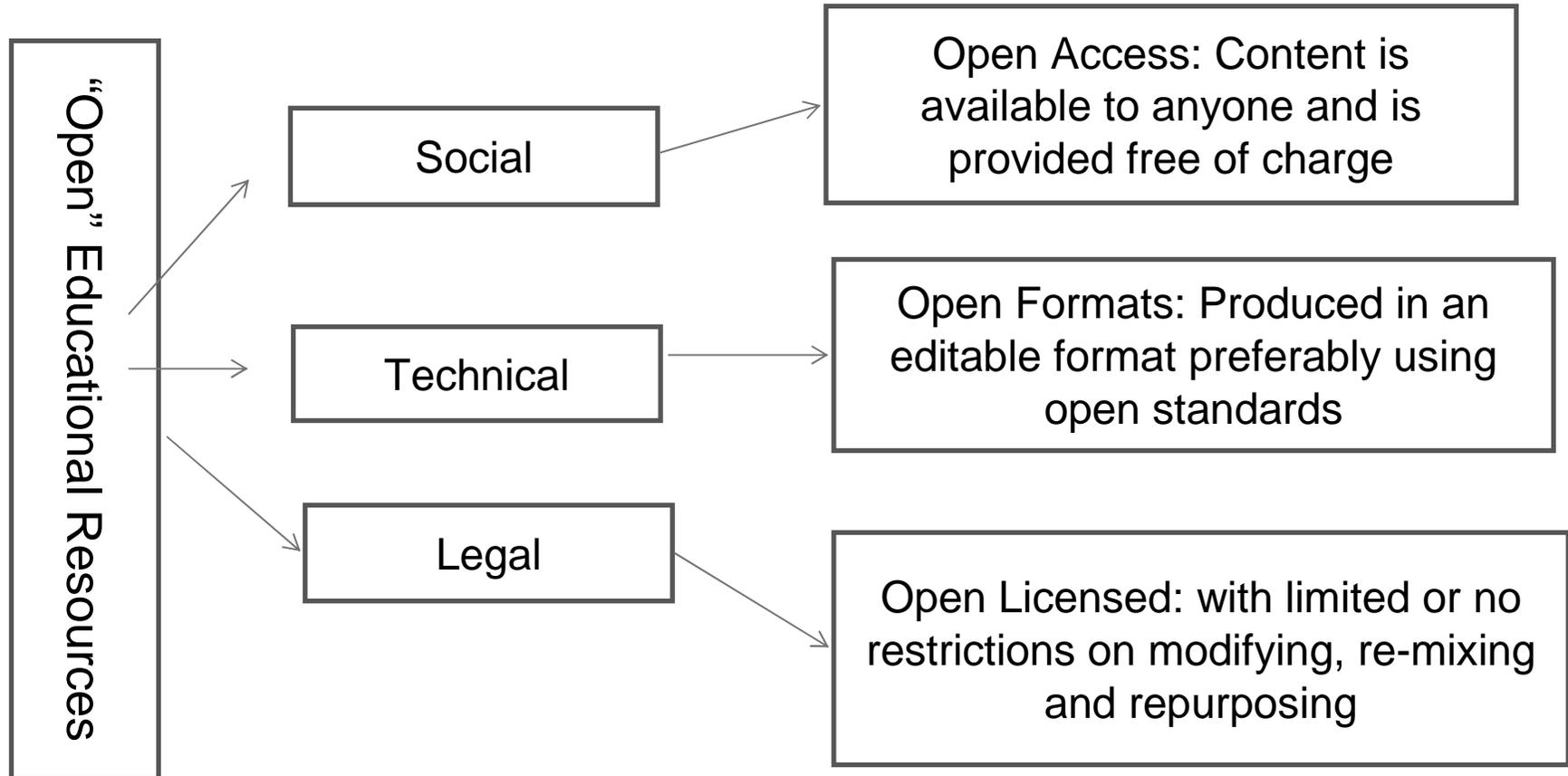
The combination of 'curriculum' and 'wiki, a community of educators, learners, and experts.

- **GLOBE**

Making online learning resources available to educators and students around the world.

Acknowledgements to Lorna Campbell, Sheila MacNeill & Li Yuan (CETIS)

Dimensions of Openness



Acknowledgements to Lorna Campbell, Sheila MacNeill & Li Yuan (CETIS)

heretical & pedantic side-bar thoughts...

1. “Openness”

- Open is opposite of Closed

heretical & pedantic side-bar thoughts...

1. “Openness”

- Open is opposite of Closed
 - does not necessarily mean Sharing

heretical & pedantic side-bar thoughts...

1. “Openness”

- Open is opposite of Closed
- Closed means different things across the Open Agenda:
 - Open Access; Open Source Code;
Open Data; Open Educational Resources

heretical & pedantic side-bar thoughts...

1. “Openness”

- Open is opposite of Closed

- Closed means different things across the Open Agenda:
 - Open Access; Open Source Code;
Open Data; Open Educational Resources
 - OA contrasted with Commercial (Tollgate) Access
 - » Heritage through ‘invisible college’ of subject disciplines

 - OER contrasted with private world of teacher/lecturer within walls of the institution
 - » Heritage in ‘university without walls’ & ‘education for development’
 - » Anyone remember Ivan Illich?

heretical & pedantic side-bar thoughts...

1. “Openness”

2. “Embedding”

- Clumsy term borrowed from mathematics, for ‘integrated’
 - Perhaps we should sometimes prefer the simpler word ‘include’
- The FOUR OPENS offer different worlds and contexts into which to embed ‘openness’
 - “Not sharing teaching materials” is deeply embedded in the culture!

3. “Learning environment”

- Up to the teacher to provide the pedagogy
- “Learner-centric”, but debate whether OER is for teachers and/or learners
- Culture change needs to be geared to teachers and their institutional setting

2. Jorum: learning materials repository (UK)

a) Introduction to Jorum

- What it is and how it came about
- What it does and what it contains
 - Examples of UK learning materials

b) Understanding change; looking to the future

- Changing environment
 - Increasing confidence in 'open' model
- Opportunities and challenges in the OER agenda

c) Planning an effective national service

- New services: going 'open'
 - JorumOpen
- Support for existing & licensed material





- began as 'keep-safe', commissioned and grant-funded by the JISC
 - for publicly-funded outputs and content developed in projects at UK institutions
 - it became a support service within X4L Programme
 - *eXchange for Learning*
- *re-purposed* as a JISC national repository
 - to promote sharing, reuse and repurposing of learning materials
 - across UK institutions: active further education (16+) sector
 - pre-dates emergence of 'open access' & Institutional Repositories; coincided with look at Creative Commons
- now being adapted for 'open sharing'
 - *and* as platform, or 'showcase'
 - UK commitment to Open Educational Resources (OER)

It's a word, not an acronym!

\ 'jo-r-*m, 'jo.r-\ n

[perhaps from Joram

“ ... brought with him vessels of silver”

(2 Sam 8:10 - AV)] :

a large drinking vessel or its contents



Brewers Phrase & Fable

[hypertext Webster Interface](#)

“Pushing the Jorum”

[Jorum tune](#)



Jorum
sharing
content



It has been a catalyst for effective collaboration between:

1. learning technologists & tutors

- for deployment within institution Virtual Learning Environments (VLEs)
 - SCORM/IMS content metadata packaging
so material can be re-used and re-purposed
- and within teaching practice

2. JISC and the communities of use it serves

3. the two JISC national data centres, EDINA & Mimas

- working closely as a team
- with CETIS (a specialist JISC advisory service for e-learning metadata)

support for: learning & teaching in UK universities & colleges

community-generated content



Jorum

national repository for learning and teaching materials

National Data Centres

EDiNA

MIMAS

JISC Collections

JISC

JISC Sub-Committees

UK funding councils for HE & FE



hefcw





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Jorum has had two main purposes

1. To act as a place where JISC-funded content can be stored, managed and made available
2. To stand as “a national statement of the importance of creating interoperable, sustainable materials”



JORUM

Community Notice Board

What is JORUM ?

JORUM is a free online repository for teaching and support staff in UK Further and Higher Education Institutions, helping to build a community for the sharing, reuse and repurposing of learning and teaching materials.

Become a content donor

Donate learning and teaching materials to JORUM and Contribute to its success

If your project or institution is interested in sharing resources with the community, please contact: support@jorum.ac.uk

MEMO

To: JORUM Community
From: JORUM Team
Date: January 2006
Subject: Service Update

Your Institution can now register for the JORUM User Service.

Staff from registered institutions can search, browse, preview, download, review, reuse and repurpose resources in JORUM.

Contribute learning and teaching materials

Re-use within your Learning environment.

Search using basic and advanced queries

SHARE !

Download resources for teaching and learning

Review by commenting on materials and awarding star ratings

Repurpose content according to your teaching needs

JISC

MIMAS

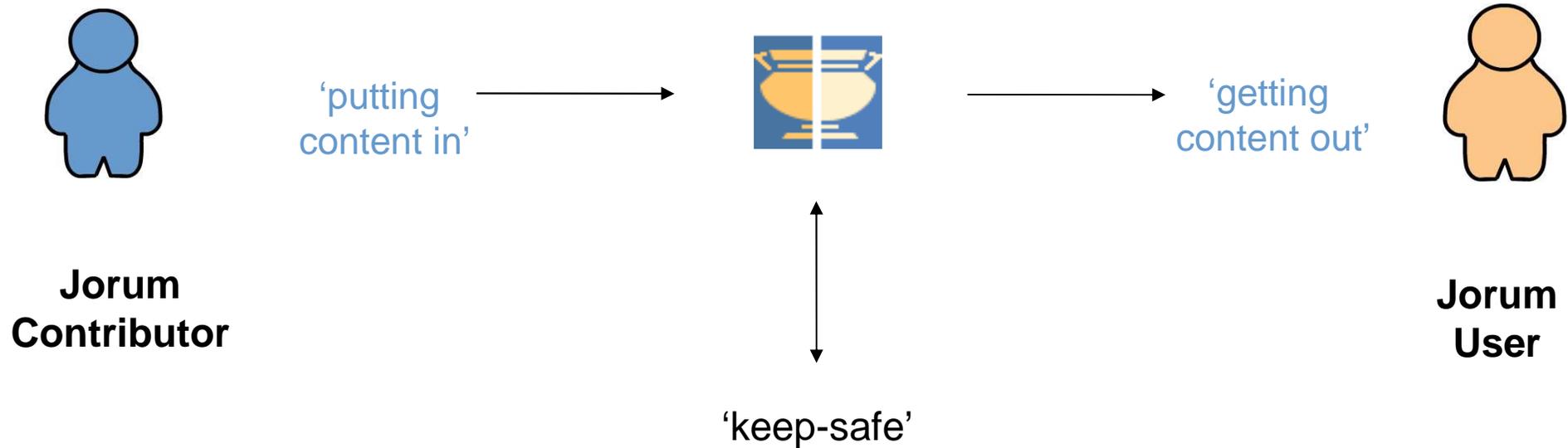
www.jorum.ac.uk

EDINA



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Two Services + 'Keep-safe' mandate + Jorum R&D



A variety of content

> Single files



Text documents, Spread Sheets, PowerPoints, Images, Video, Audio, Flash Animations

> Content Packages / Learning Objects



Bundling learning resources together with metadata. Content can be moved between programs, facilitating easier delivery, reuse and sharing of materials.

> Virtual Objects



Jorum can catalogue and point to resources stored elsewhere



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Learning Styles

When you spell do you:

- Try to see the word in your imagination
- Try to say the word out loud
- Write the word down

stage floor tiled change scene props store

more props

Direct System of Cold Water Supply

CONTROLS

Instructions: Pipe up the house above as a direct system of cold water supply by clicking on the various objects and then choosing an appropriate supply: either mains or cistern.

Connect: To:

The Body of Law

Why the Law?

social care institute for excellence scie

Why should social workers concern themselves with the law?

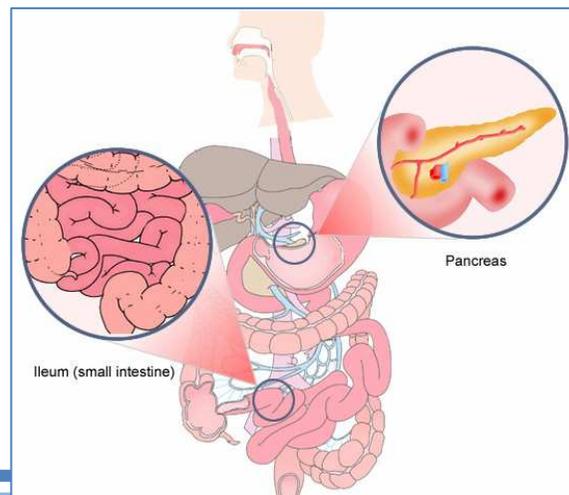
The law as mandate (power and authority), as structure for practice (guidance) and as a discipline (control).

Gwyneth Roberts
I think there are a number of basic reasons why social workers should concern themselves with the law. It's because it's the law that gives social workers the power,

download transcript

Back Next

Start page > Why the Law? Text only



Repurposing Guidelines

Working with VLEs

JISC The Joint Information Systems Committee Healthier Nation Project



3. OER Pilot Programme



subject
14 projects



institution
7 projects



individual
9 projects



JISC
Programme Management



support function – covering technical, legal, strategic advice, workshops, support for deposit and aggregation of materials, communities of practice.
Based around existing JISC services & OU “SCORE” project.

OER infokit – a “how to” guide for future work

evaluation & synthesis function

- one year programme – HEFCE-funded; managed by JISC & the Higher Education Academy.



UKOER Pilot Programme



- 3 strands of funding over 12 months:
 - **Institutional** projects: 7 @ up to £250k per project
 - **Subject consortia**: 14 @ up to 250k per project
 - **Individual** projects: 9 @ up to £20k per project
- 30 pilot projects in all
- Over 80 institutions involved in OER Programme



UKOER Pilot Programme



Aim is that the funded projects will ...

- Release a significant amount of resources ‘openly’
- Prompt change and clarity in institutional policies about online learning resources.
 - adapt processes and policies to ensure release is sustained
- Act as a pilot to inform the design of a next (and larger) phase of the OER Programme
 - offering value for money to the UK HE sector.
 - promoting a positive profile for institutions and the sector worldwide
 - test a “business model” for open release
- contribute to understanding of practicalities of open release in different contexts



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- Projects are expected to:
 - *represent* them in Jorum
 - *publish* them online, via Jorum or otherwise
 - Yet to consider long term access (preservation)
- publish materials via:
 - Open institutional repositories
 - Web 2.0 services
 - Institutional websites
 - all must have an exposed RSS feed





UKOER Pilot Programme



- **The OER Pilot Programme does not mandate:**
 - the use of one single platform to disseminate resources
 - a single metadata application profile to describe content

But ... projects do need to ensure that content can be:

- Found / Used / Analysed / Aggregated / Tracked
- Only mandated metadata are:
 - Programme tag – “ukoer”
 - Title / Author [owner, contributor, from user profile] / Date / URL
 - Technical info – file format, name & size
- Platforms should be capable of generating RSS/Atom feeds
 - particularly for collections of resources e.g. YouTube channels
- Projects should use appropriate standards for sharing complex objects:
 - e.g. IMS Content Packaging, IMS Common Cartridge, OAI ORE
 - e.g. IMS QTI for assessment items



UKOER Pilot Programme



- For existing content (not about digitisation or content creation)
- Geared at transforming this for release as OER
- Recommendations on usability, accessibility and design
- Pointers to guidelines on management of IPR/Copyright

It's a pilot!

- Encourages bold, innovative experimentation
 - different approaches / use of variety of platforms

but

- Need to register description and location of content with Jorum
- Need to track use of content

key role for Jorum and for *ukoer* tag

4. Re-shaping Jorum for OER

- **Jorum is going open access!**
- lots of new, **open content** to be available via Jorum
 - OER Programme; JISC Digitisation projects; RePRODUCE/RLO-CETL
- JorumOpen and other licensing options
 - One of three licensing regimes
- Re-stating role of Jorum and JorumOpen
 - Sharing, Finding, Discussing



Three enabling licensing schemes: view all content as licensed!

1. JorumOpen [open to the world]
2. JorumEducationUK [for 'authenticated' members of community]
3. JorumPlus [requiring 'authorisation']



Three enabling licensing schemes:

1. JorumOpen

- content whose creators/owners are willing & able to share materials for anyone to use via the web; uses Creative Commons (CC) licences

2. JorumEducationUK

3. JorumPlus



Three enabling licensing schemes:

1. JorumOpen

2. JorumEducationUK

- [a custom licence] content whose creators/owners who need/opt to restrict availability of resources to members of UK further and higher education; authenticated via the Access Management Federation

3. JorumPlus



Three enabling licensing schemes:

1. JorumOpen

2. JorumEducationUK

3. JorumPlus

- for sharing content with additional restrictions
 - for example where material licensed via JISC Collections or from third parties
 - typically requires institutional authorisation



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JorumOpen

- Anyone in the world will be able to search, browse, download and use resources on JorumOpen, respecting licence terms for each resource
 - Content deposited under JorumOpen will be exposed to search engines
- In first instance, sharing (deposit) via JorumOpen requires ‘authentication’
 - intended for people within UK FE/HE with necessary rights and wish to release materials under Creative Commons licences
 - even so, depositors responsible for content deposited via JorumOpen
 - just as they would on web2.0 services such as Slideshare, YouTube, flickr etc



Jorum OER Deposit Tool

- supports the deposit of
 - a simple item, or collection of items
 - a link/URL to an open educational resource from a remote site
- (at present) requires authenticated access and a simple one-off registration
 - UK Access Management Federation [Shibboleth]
 - single sign-on as per home institution
- simple steps to enable content upload, entry of basic metadata and selection of a suitable Creative Commons licence
 - with option to add more metadata, for greater discoverability

... all to assist the sharing and finding of OER via JorumOpen!

<http://deposit.jorum.ac.uk>



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Jorum is being re-shaped as ...

- a place for **sharing** learning and teaching materials
 - both deposit and download
- a place for **finding** learning and teaching materials
 - in Jorum and elsewhere
- a place to come and exchange views and tools
 - the Jorum Community Bay



Jorum

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Jorum [is maybe being re-branded] as ...

- a place for **sharing** learning and teaching materials
 - both deposit and download [JorumShare]
- a place for **finding** learning and teaching materials
 - in Jorum and elsewhere [JorumFind]
- a place to come and exchange views and tools
 - the Jorum Community Bay [JorumKnowHow]



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Jorum Community Bay *[to share KnowHow]*

- knowledge exchange and discussion about all aspects of sharing, reuse and repurposing of learning & teaching resources
 - beginners and experts
- in development
 - complete with Jorum Forum
- we are keen to populate
 - So, come and get involved!
- target: area for UKOER projects to engage in discussions

<http://community.jorum.ac.uk/>



You are not logged in. (Login)

Your Community to Share, Engage and Discuss.

Welcome to the Jorum Community.

The Jorum Community aims to support knowledge exchange and discussion on all aspects of sharing, re-use and repurposing of learning and teaching resources.

Most of the Jorum Community area is available for public viewing, but if you would like to contribute to discussion forums, please register.

To go straight to the Jorum Community discussion area, please click [here](#).

Please select the area you wish to visit below.



Jorum Forum

Engage, discuss and interact with your fellow Jorum users through online discussion created by the community for the community.



Sharing Resources

Get support and guidance to enable you to share your teaching and learning resources.



Technology

This section concentrates on technical issues and developments in the Learning and Teaching area.

Navigation

- Jorum Forum
- Technology
- Sharing Resources

What is the Jorum Community?



[Click here](#)

Jorum Twittering



JorumTeam: Jorum will be attending the RSC Northwest event, 25th June. For further information: <http://bit.ly/abdGd>



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Any questions?

<http://jisc.cetis.ac.uk/oerbriefing>

<http://www.ocwconsortium.org>

www.eadtu.nl

p.burnhill@ed.ac.uk

Resources

- Cetus Briefing Paper (2008), *Open Educational Resources – Opportunities and Challenges for Higher Education*, http://wiki.cetus.ac.uk/images/0/0b/OER_Briefing_Paper.pdf
- Cooke, R. (2008) *On-line Innovation in Higher Education* <http://tinyurl.com/5vt5lo>
- Downes, S. (2006) *Models for Sustainable Open Educational Resources*, National Research, Council Canada, <http://tinyurl.com/64xqym>
- OEDb (2007), 80 Open Education Resource (OER) Tools for Publishing and Development Initiatives, <http://oedb.org/library/features/80-oer-tools>
- OECD (2007), *Giving Knowledge for Free: the Emergence of Open Educational Resources*, <http://tinyurl.com/62hix6>.
- OECD (2007), *Open Content Licensing (OCL) for Open Educational Resources*, <http://tinyurl.com/5oh3es>
- UNESCO, 2008, UNESCO OER Toolkit, <http://tinyurl.com/5zmnwn>
- Wiley, D. (2006) *On the Sustainability of Open Educational Resource Initiatives in Higher Education*, www.oecd.org/edu/oer.
- ZaidLearn, (2008), University Learning = OCW + OER = FREE!, <http://tinyurl.com/5hcd5o>



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...and here are those details again:

- Jorum OER deposit tool
<http://deposit.jorum.ac.uk>
- support via Jorum website
<http://www.jorum.ac.uk/deposit>
- Jorum helpdesk
support@jorum.ac.uk or 0131 650 3302
- Jorum Community Bay
<http://community.jorum.ac.uk/>



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Some useful links

- Jorum <http://www.jorum.ac.uk/>
- Jorum Collection Development Policy <http://www.jorum.ac.uk/policies.html>
- Creative Commons <http://creativecommons.org/>
- MrCute <http://www.learningobjectivity.com/mrcute/>
- RePRODUCE project
<http://www.jisc.ac.uk/whatwedo/programmes/elearningcapital/reproduce.aspx>
- JISC Digitisation programme
<http://www.jisc.ac.uk/whatwedo/programmes/digitisation/projects.aspx>
- RLO-CETL <http://www.rlo-cetl.ac.uk>

More considerations

unity

- Design for the User. Usability and accessibility are key to OER
 - See TechDis “[Creation of Learning Content](#)” guidance
- Manage IPR/Copyright information
 - Content and its metadata should include rights information, so check what your chosen software platform(s) can do
- Formally report volume & location of content released
 - Explore different approaches
- Track use of content
 - Exploit service functionality for tracking & analysis
 - Use existing systems e.g. WebTrends, google analytics, etc