

# What is an Open Educational Resource?

- fees
- subscriptions
- tuitions
- registrations
- obligations
- etc.

at a minimum, no cost to the consumer or user of the resource





## **Conditions?**

Attribution
Share-Alike
Non-commercial
No-modify
Educational
Other?

#### Freedom to

- access
- copy
- modify
- redistribute

Foote 2005, Doyle 2005

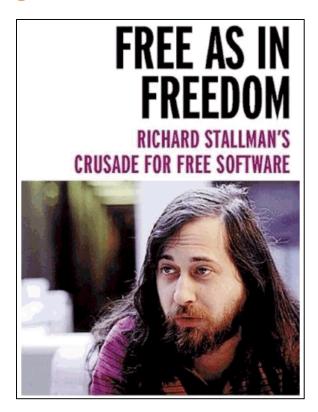
Matter more in conditions of scarcity, not abundance

# What resources? Not just courseware... **CONTENT CAPACITY TOOLS**

# More than just cost...

#### we need to consider:

- usability
- durability
- accessibility
- effectiveness



-Alternate objective: free as in freedom

# Licensing Initiatives

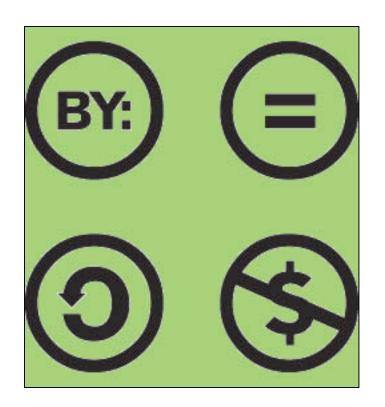


 The idea of open content licenses is similar to open source - to protect the openness using existing law

#### Creative Commons

http://creativecommons.org/







The idea is to create a mid-range of licenses between Copyright and public domain - "some rights reserved"

#### GNU Free Documentation License

http://www.gnu.org/copyleft/fdl.html

#### **Conditions:**

attributions of authors

changes must be logged

• share-alike

unmodified sections

no proprietary formats or DRM



# ()PENC()NTENT

- Open Publication License
   <a href="http://opencontent.org/openpub/">http://opencontent.org/openpub/</a>
  - Attribution
  - Notification of modifications
  - No-derivatives clause allowed

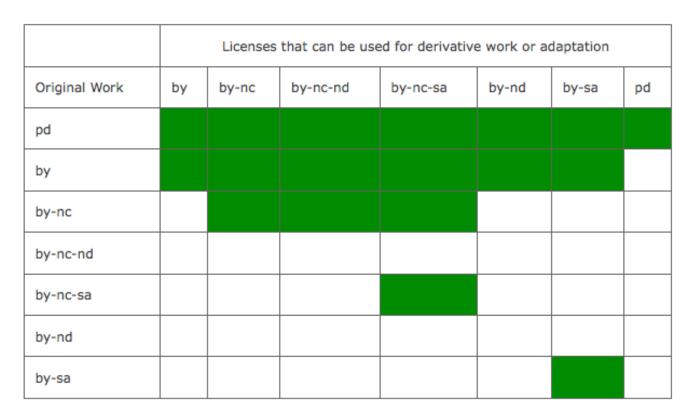




**David Wiley** 

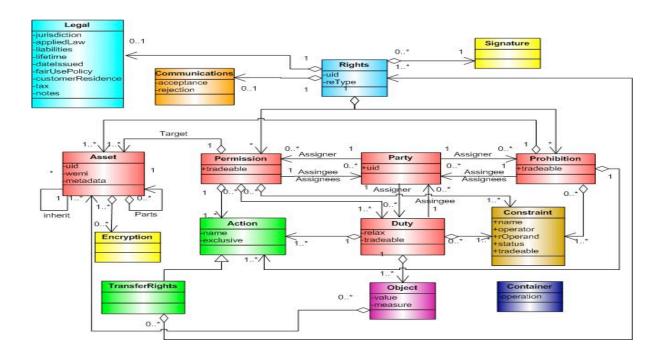
http://opencontent.org/blog/

## Stumbling block: mixing licenses



http://wiki.creativecommons.org/Frequently\_Asked\_Questions

## Stumbling block: license expression



## Three ways to express licenses:

- Ccrel <a href="http://wiki.creativecommons.org/CcREL">http://wiki.creativecommons.org/CcREL</a>
- XrML (AKA MPEG-REL) <a href="http://www.xrml.org/">http://www.xrml.org/</a>
- ODRL <a href="http://odrl.net/">http://odrl.net/</a>

# Open Courseware Initiatives

## MIT OpenCourseWare

http://ocw.mit.edu

Home 

☐ Email this page



- \* OCW is not an MIT education.
- \* OCW does not grant degrees or certificates.
- \* OCW does not provide access to MIT faculty.
- \* Materials may not reflect entire content of the course.

## Open Courseware Consortium

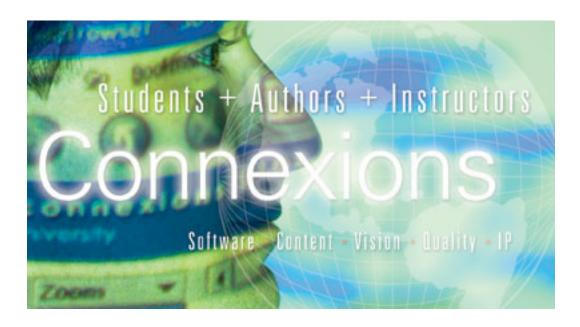
http://ocwconsortium.org/



Blog - <a href="http://ocwblog.org/">http://ocwblog.org/</a>

#### Connexions

http://cnx.org/



#### Find resources - author resources

Example - Collaborative Statistics <a href="http://cnx.org/content/col10522/latest/">http://cnx.org/content/col10522/latest/</a>

**CNXML** 

http://cnx.org/content/m9000/latest/

#### OER Commons

http://www.oercommons.org

Created by IKSME - <a href="http://www.iskme.org/">http://www.iskme.org/</a>



"single point of access through which educators, students, and all learners can search, browse, evaluate, download, and discuss open educational resources (OER)" Includes review, tag features...

## Open Content Alliance

http://www.opencontentalliance.org



"Unlike with commercial scan plans, there are no restrictions on public domain books scanned by OCA members. Users are not forced to use proprietary interfaces, and OCA scans are not hidden from rival search engines. Books scanned under the BLC initiative will be hosted by the Internet Archive..." <a href="http://www.libraryjournal.com/article/CA6484069.html">http://www.libraryjournal.com/article/CA6484069.html</a>

Internet Archive: <a href="http://www.archive.org">http://www.archive.org</a>

OurMedia: <a href="http://www.ourmedia.org/">http://www.ourmedia.org/</a>

## OpenLearn

http://www.open.ac.uk



Creating a new world of learning



OpenLearn Autumn 2007

Provides complete
Open University online
courses

Provides ways for participants to contribute as well as take courses

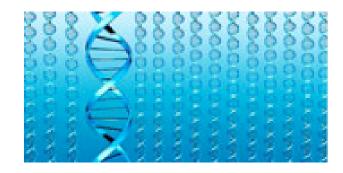
#### Intute

http://www.intute.ac.uk/

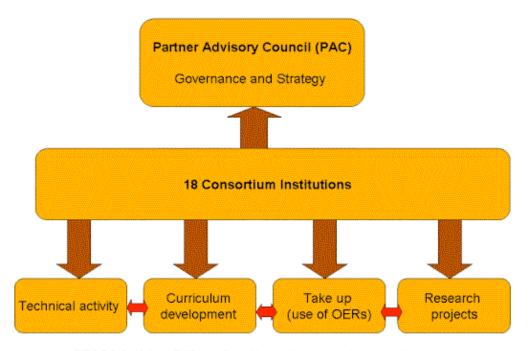


"Intute is a free online service providing you with a database of hand selected Web resources for education and research."





# The Funders



TESSA Activity: Differentiated input by consortium members

http://jime.open.ac.uk/2008/03/jime-2008-03.html

## Sustainable OERs...

- Content only the beginning
- Consideration of the community essential
- Entails not just a mechanism but a *model* of production, use, distribution
- Existing structures (centralized, financially oriented, hierarchical) are often *barriers* to OERs
- We feel this in our communities

#### Hewlett Foundation

http://www.hewlett.org/Programs/Education/OER/



# UNESCO OER projects

http://oerwiki.iiep-unesco.org



# Commonwealth of Learning

http://www.col.org/colweb/site



- learning for development
- teacher training programs
- content initiatives

# **Funding Models**

Numerous funding models...
these vary mostly by source
but models have other implications

- who authors (whose point of view)?
- who controls (funds, resources)
- who distributes?

## Endowment Model

- Single large grant
- Managed by fund-holder
- Funding via interest

Eg. Stanford Encyclopedia of Philosophy

\$US 3 to 4 million fund \$190,000 budget

# Membership Model

- Organizations join consortium
- Members pay fees
- Projects managed collectively

Eg. Sakai

Eg. MERLOT

Eg. OCW Consortium

## Donations Model

- Donations solicited from public
- May involve project membership (by individuals)
- Project manged by a board

Eg. Wikipedia foundation Apache foundation

## Conversion Model

"In the Conversion model, you give something away for free and then convert the consumer of the freebie to a paying customer."

Sterne and Herring (2005)

# Contributor Pay

- Creators of resources pay for 'publication'
- Resources are managed by the publisher

charges for this process will be met by funding bodies, such as the Wellcome Trust - 1% of their annual spend.

Eg. Public Library of Science
But also
Think about YouTube, Blogger, Flickr (pro)

# Sponsorship Model

- The 'public television' model
- Resources are 'sponsored' by donors
- Usually in return for sponsorship spot



#### **Examples**

MIT iCampus Outreach Initiative (Microsoft) (CORE, 2005)
Stanford on iTunes project (Apple)

#### Institutional Model

Examples: OpenCourseWare
Open Knowledge Initiative
OPLC

All from MIT

- Sponsoring organization pays costs
- Considered part of its 'mandate'

It usually manages it, too... and there may be side-benefits

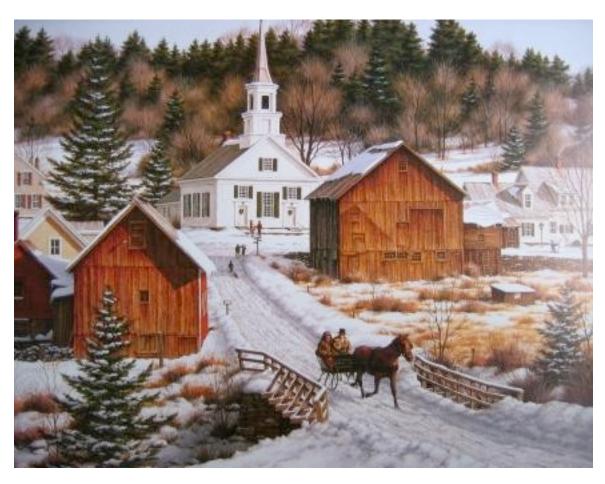
# Government Funding Model

- Government funds
- Usually managed by arms-length board (but not always)
- Intended to serve government objectives...

#### **Examples**

OLPC (again)
Canada SchoolNet
Universities, colleges, schools

# OERs 'In The Wild'

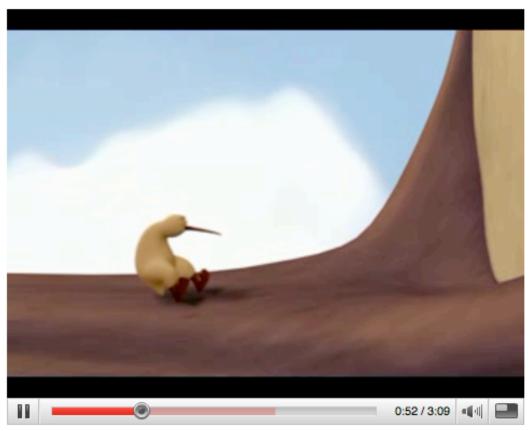


http://www.alpenglowart.com/artist.asp

#### YouTube

#### http://www.youtube.com/

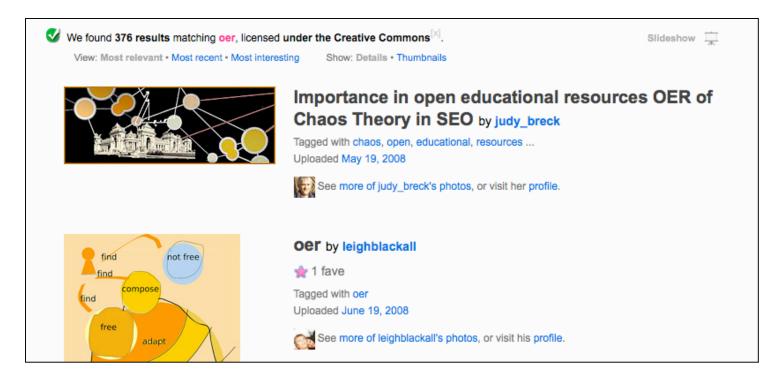
#### Kiwi!



http://www.youtube.com/watch?v=sdUUx5FdySs

#### Flickr

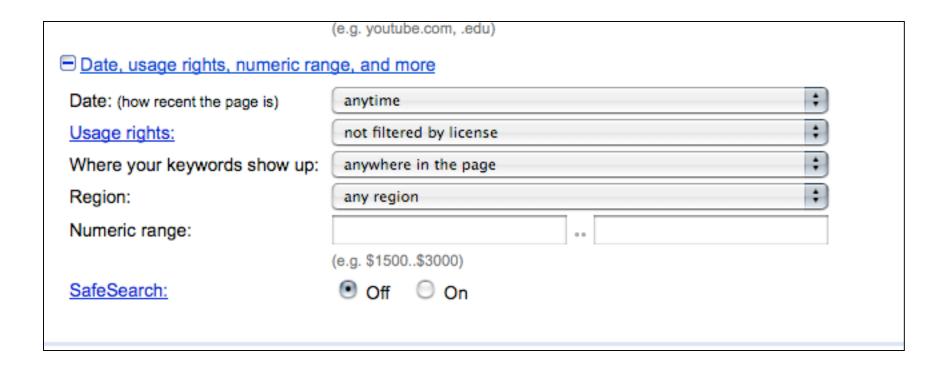
#### http://www.flickr.com



http://www.flickr.com/search/?q=oer&l=cc&ss=0&ct=0&w=all

# Google

http://www.google.com/advanced\_search?hl=en



# Wikipedia

http://en.wikipedia.org

### WikipediA

祖

#### English

The Free Encyclopedia 2 561 000+ articles

#### **Español**

La enciclopedia libre 400 000+ artículos

#### Français

L'encyclopédie libre 707 000+ articles

#### Deutsch

Die freie Enzyklopädie 806 000+ Artikel

#### Português

A enciclopédia livre 428 000+ artigos

#### Polski

Wolna encyklopedia 538 000+ haseł

#### 日本語

フリー百科事典

522 000+ 記事

#### Русский

Свободная энциклопедия 317 000+ статей



#### Italiano

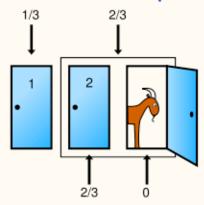
L'enciclopedia libera 497 000+ voci

## Wikiversity

### http://en.wikiversity.org/wiki/Wikiversity:Main\_Page

#### **Today's Featured Project**

#### **Economic Classroom Experiments**



Economic Classroom Experiments is a growing collection (currently 23 resources) of lesson plans and ideas for games in the economics classroom. The experiments are suitable for both secondary and tertiary education. Economics teachers and others are welcome to add to the collection.

Visit this resource · see more featured content

view · discuss

#### **Educational Picture of the Day**

#### **Washington Crossing the Delaware**



This painting is an example of the genre of history painting. It shows George Washington crossing the Delaware River in 1776. History painting was a major movement in art from the 17th to 19th centuries. As the paintings are now in the public domain, copies of them are ideal for inclusion in educational history

### Curriki

http://www.curriki.org

cur·ric·u·la + wi·ki 😑 cur·rik·i

### Find

Collect lesson plans, teaching activities, student worksheets and more.

Featured Resource:



Panwapa Movie Play-Along

### Contribute

Share your favorite curriculum resources to improve education globally.

Recently Reviewed:



Article Reaction Assignment

### Connect

Collaborate with teachers in your school, or educators around the world.

Featured Group:



### WikiEducator

### http://www.wikieducator.org

#### The purpose of WikiEducator

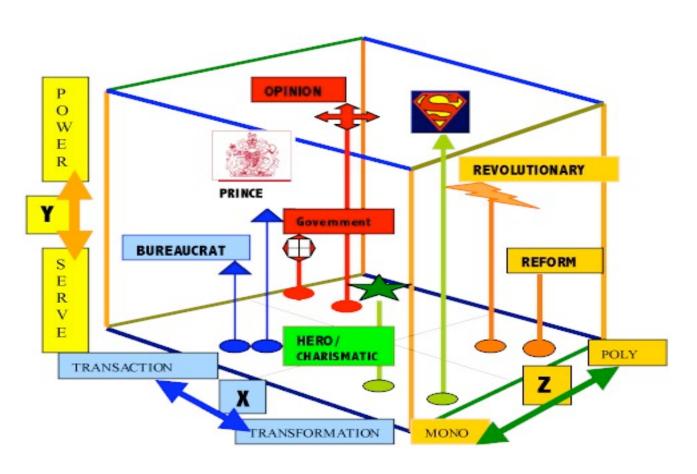
The WikiEducator is an evolving community intended for the collaborative:

- planning of education projects linked with the development of free content &;
- development of free content on Wikieducator for e-learning;
- work on building open education resources (OERs) on how to create OERs.
- networking on funding proposals developed as free content.

#### Join us today ~ You'll be glad you did!

Please join us in developing free and open educational content for the world!

# Dimensions of Openness



http://cbae.nmsu.edu/~dboje/teaching/338/traits.htm

# Technical

- Driven by financial, other considerations, eg. Learning objects
- 'Free Use' vs 'Adapt and Localize'
- Access and usability eg., browse, search, data-mining
- Impact on 'open' eg., federations

# Content Models

- 'Sustainable' often means 'localizable' and tantemount to 'reusable'
- Hence, requires integration which in turn requires semantic similarity
- Questions of licensing, etc.

## Provider / Consumer

- Content may reflect values of the provider – cultural imperialism
- Shift in emphasis toward collaborative development
- Sharing in all directions, north and south
- Hence, need to think of OERs with respect to the community that uses them

# Staffing

- Traditional: hiring of professional staff to design and produce OERs
- Question of cost, use of volunteers
- This raises the question of motives (and again changes 'sustainable')
- Non-financial incentives

# Volunteer Organization

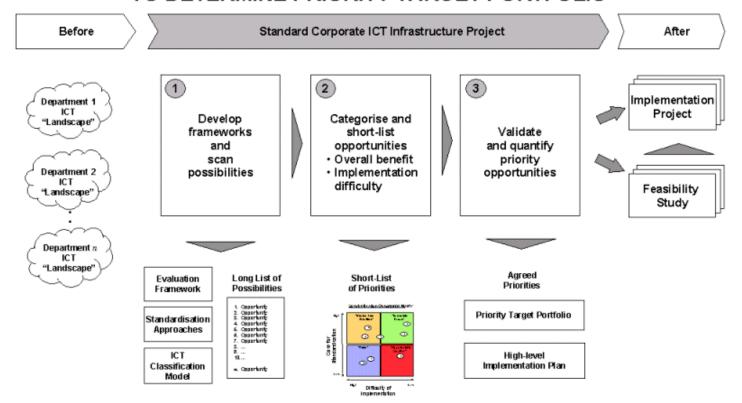
- Community model emphasis on individual members (eg. OSS)
- Emergent model emphasis on process (eg., Slashdot, eBay)
- Producer-consumer model vs coproducer moder – Web 2.0

# Workflow

- Traditional design, use, evaluation
- Quality: peer review? MERLOT
- Rethink the idea of 'producing'
- Decentralize, disaggregate
- The 'use' of a resource constitutes the 'production' of a new resource

# Infrastructure Initiatives

# THREE-STEP APPROACH TO DETERMINE PRIORITY TARGET PORTFOLIO



http://www.egov.vic.gov.au/index.php?env=-innews/detail:m1501-1-1-8-s-0:n-405-1-0--



## Open Archives Initiative

http://www.openarchives.org/

"develops and promotes interoperability standards that aim to facilitate the efficient dissemination of content."

OAISter - <a href="http://www.oaister.org/">http://www.oaister.org/</a>

DSpace - <a href="http://www.dspace.org/">http://www.dspace.org/</a>

PubMed - http://www.pubmedcentral.nih.gov/about/oai.html

### SWORD

http://www.jisc.ac.uk/whatwedo/programmes/reppres/tools/sword

(Simple Web Service Offering Repository Deposit)



"The project aims to improve the efficiency and quality of repository deposit and to diversity and expedite the options for timely population of repositories with content whilst promoting a common deposit interface and supporting the Information Environment principles of interoperability."

# Public Knowledge Project

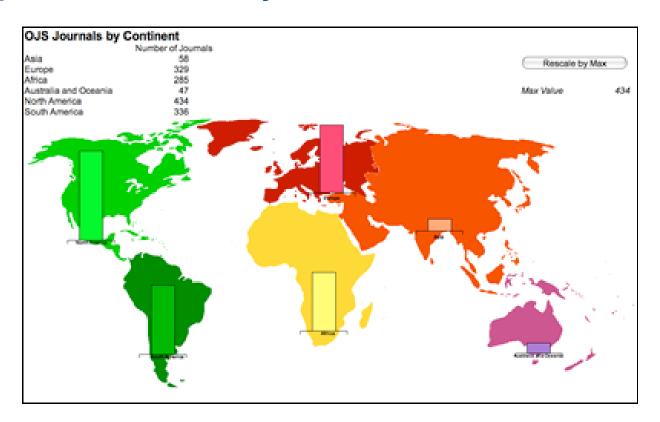






- http://pkp.sfu.ca/
- University of British Columbia and Simon Fraser University

# Open Journal System



http://pkp.sfu.ca/?q=ojs



http://www.hhrjournal.org/index.php/hhr http://www.medisur.sld.cu/index.php/

# Open Conference System

### http://pkp.sfu.ca/ocs



http://imrf.mcmaster.ca/IMRF/ocs/index.php/meetings/2008/

## Open Archives Harvester

http://pkp.sfu.ca/?q=harvester



http://carl-abrc-oai.lib.sfu.ca/

### Resources

- OER The Way Forward
   http://oerwiki.iiep-unesco.org/index.php?title=OER:\_the\_Way\_Forward
- UNESCO OER Toolkit
   http://oerwiki.iiep-unesco.org/index.php?title=UNESCO\_OER\_Toolkit
- Hewlett OER Report

  http://www.hewlett.org/Programs/Education/OER/OpenContent/Hewlett+OER+Report.htm
- JIME Researching Open Content http://jime.open.ac.uk/2008/
- Open Educational Resources at OECD http://oer.wsis-edu.org/oecd-oer.html
- OER handbook for Educators
   http://wikieducator.org/OER\_Handbook/educator\_version\_one

### Barriers...

- Who gets funded (indiv. vs inst.)
- Scale of funding (large vs. small)
- Type of project (producer, centralized)
- Overhead (eg., licensing)
- Justification, quality (= overhead)
- Narrow view of 'sustainable' (=