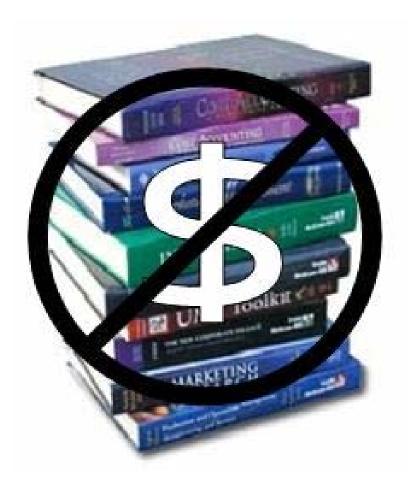
### **Open Educational Resources**

# OER

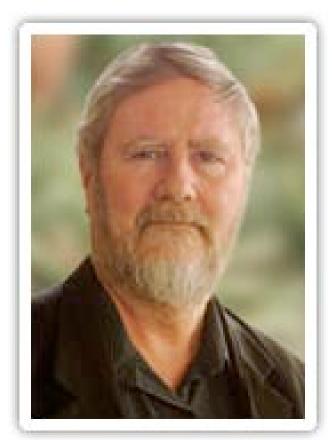
Research, opportunities & strategies

Rory McGreal rory@athabascau.ca

Terry Anderson terrya@athabascau.ca



### **Open Scholars**



Prof. Rory McGreal



Prof. Terry Anderson Canada Research Chair



### Why OERs?

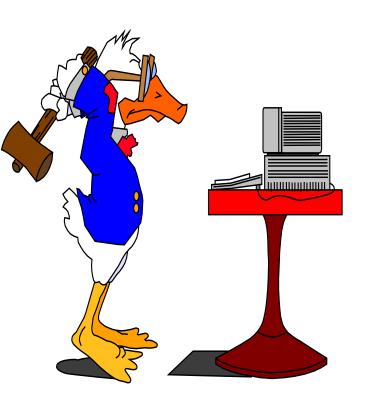
- the world's knowledge is a public good in general
- the WWW in particular provides an extraordinary opportunity for everyone to share, use, and reuse that knowledge."
  - Hewlett Foundation Smith, & Casserly. The promise of open educational resources.
     Change 38(5): 8–17, 2006



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### Community or accessibility?



What technology has done more to destroy human community than any other?



### Community or accessibility?



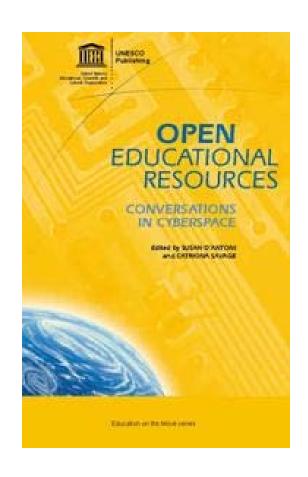
What technology has done more to destroy human community than any other?

### Could it be the portable book?





### **OER Definition**



- "open provision of educational resources enabled by information and communication technologies, for consultation, use and adaptation by a community of users for non-commercial purposes."
  - UNESCO 2008
     http://www.unesco.org/iiep/eng/focus/opensrc/opensrc 1.htm





## Types of OERs

- Learning objects, units, textbooks, scholarly articles
   IRRODL.org
- Multimedia objects (Flash etc.)



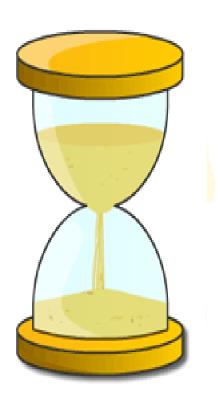
- Courses, programs full curriculum
- Tools, FOSS







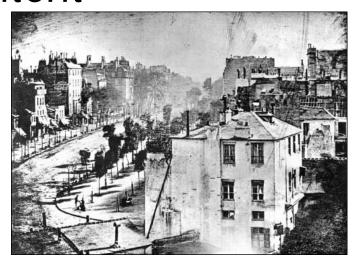
- OER comes in many sizes:
  - Diagrams, photos, web pages
  - Articles (Open access publications)
  - Games, simulations, activities
  - Multimedia
  - Units of learning (IMS LD)
  - Lessons, modules & courses
  - Programmes





### **OER: Example**

Content



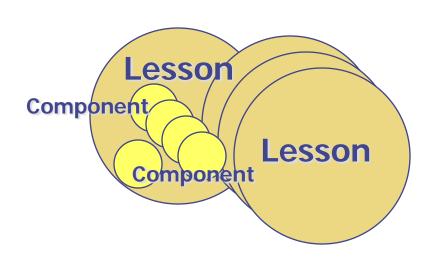
- Pedagogical purpose; to augment learning about:
  - 1. Paris
  - 2. 1839
  - 3. Urban environments
  - 4. Architecture
  - 5. Daguerre

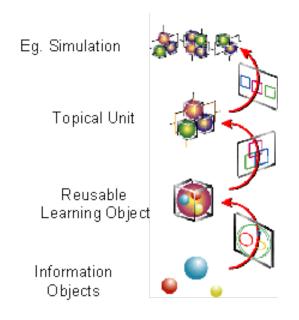
From Norm Friesen

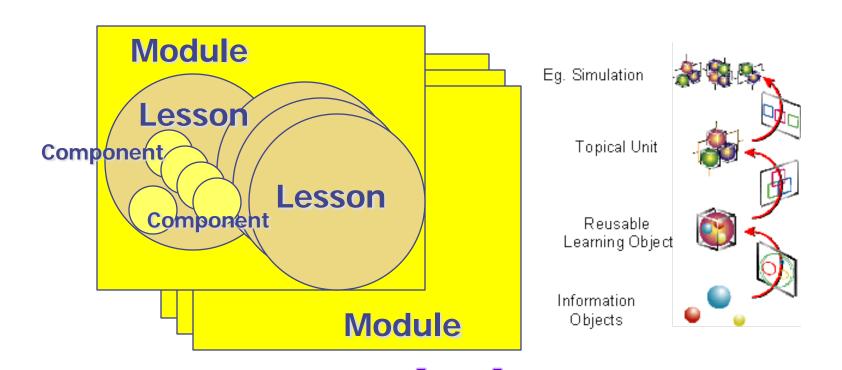
- 6. Photography
- Daguerreotypes





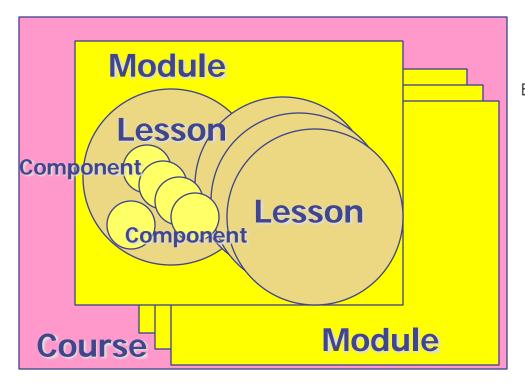




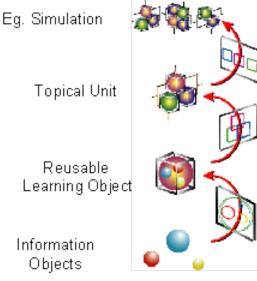


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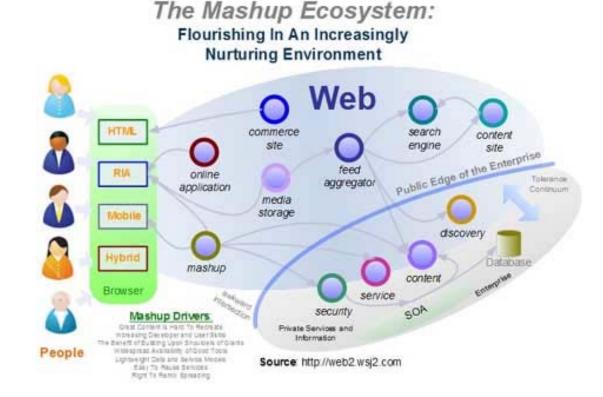






### **OER's are Open (Mostly)**

- OERs can be:
  - Augmented
  - Edited
  - Customized
  - Aggregated
  - Reformatted
  - Mashups!



See Scott Leslie's 10 minute video at 

[Index] http://www.edtechpost.ca/gems/opened.htm





### 4 R's Functionality of OERs

- Reuse Use the work just exactly as you found it.
- **Rework** Alter or transform the work
- Remix Combine work with other works
- **Redistribute** Share with others.
  - Dave Wiley http://opencontent.org/blog/archives/35 5









### **OERs for Development**

Goal of developing together a universal educational resource available for the whole of humanity... hope that this open resource for the future mobilizes the whole of the worldwide community of educators"

**UNESCO 2002** 

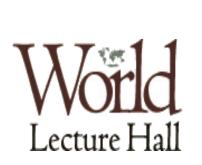


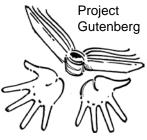
#### Millions of OERs are available

#### MITOPENCOURSEWARE MASSACHUSETTS INSTITUTE OF TECHNOLOGY





















### **OER Providers**







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Community





small

Adapted from Alexa Joyce OECD





### **OER use Rationale**

#### from Open U. UK

#### Opportunity:

- Risk of doing nothing
- Address technology and globalization
- A testbed for technology & work processes
- External funding (similar aims and ideals)
- The world as a resource.

#### Brand Promotion:

- A route for outreach
- Demo the quality of OUUK materials



## The Open University



### **Ownership and Licensing**

#### Familiar problems

— Who owns resource - educators or the institution?

inflated expectations

#### New problems

- OER's are not journal articles
- Articles are not "reworked"
   Is attribution critical?
   Commercial exploitation?





### **Ownership Models**











#### Institutional

Default under most 'work for hire' law

#### Shared

- Often unworkable
- Tragedy of the anti-commons
- Individual (academic)
  - Rights of succession? Multiple authors?
- Produsage
  - No enforcement of rights
    - (copyleft, public domain)





### Funding Models (from Downes, 2007)







Membership







Producer contribution – (Publishers dream!)



Sponsorship - Itunes University



Government funding



Institutional



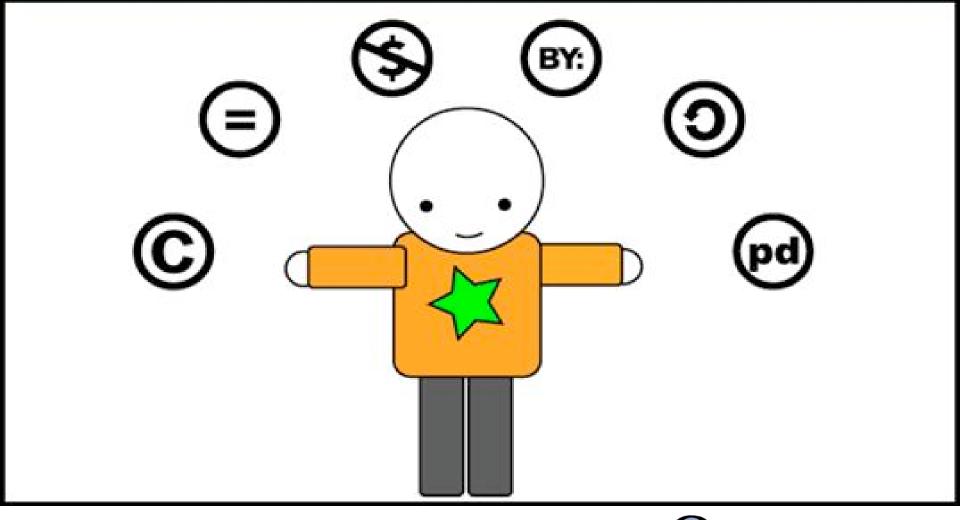
# Creative Commons License







CREATIVE COMMONS WANTS TO HELP DEFINE THE SPECTRUM OF POSSIBILITIES BETWEEN FULL COPYRIGHT -- ALL RIGHTS RESERVED -- AND THE PUBLIC DOMAIN -- NO RIGHTS RESERVED. OUR LICENSES HELP YOU RETAIN YOUR COPYRIGHT WHILE ALLOWING CERTAIN USES OF YOUR WORK. THEY HELP YOU OFFER YOUR CREATIVE WORK WITH SOME RIGHTS RESERVED.



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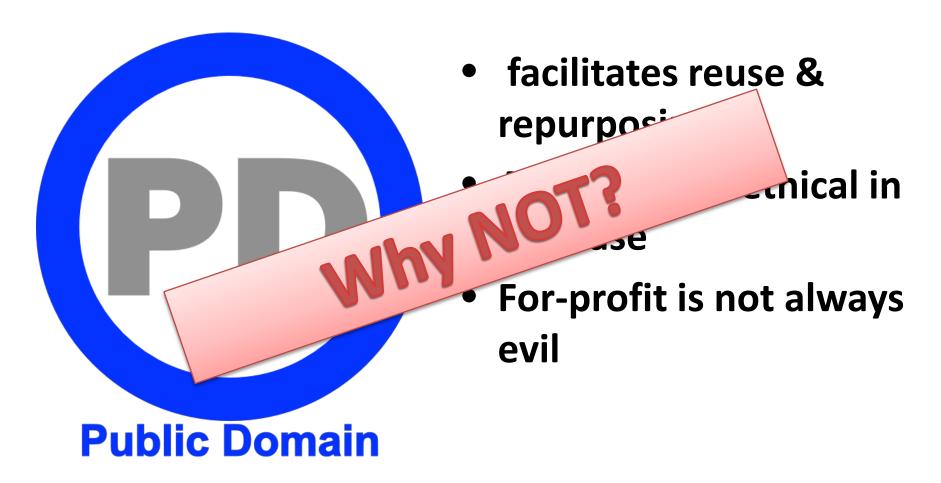
### Why the Public Domain?



- facilitates reuse & repurposing
- Attribution is ethical in any case
- For-profit is not always evil



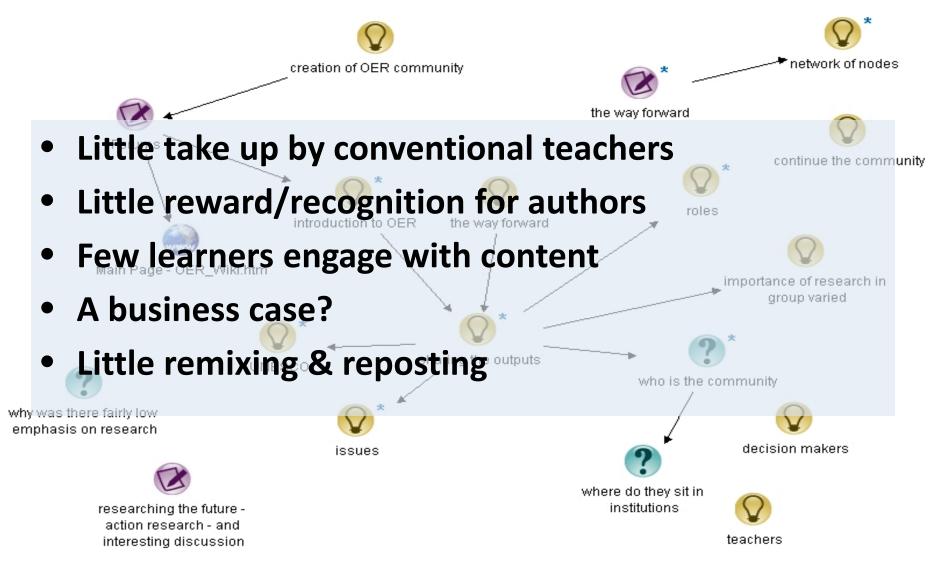
### Why the Public Domain?







### **Problems with OER**







### **Problems with OER**





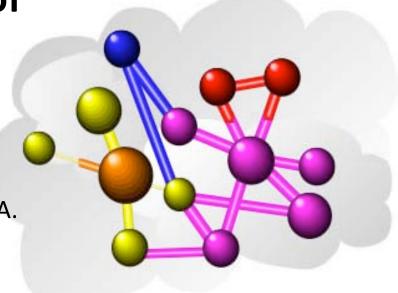


### Publishers vs. re-user/publishers

 88% (70) involved authors of own content

 ONLY 12% (10) derived by others

Petrides, L., Nguyen, L., Cynthia, J., & Karaglani, A. (2008)







#### **Open Learn Example**

402 units

http://openlearn.open.ac.uk/

The OpenLearn website gives free access to course materials from The Open University. The LearningSpace is open to learners anywhere in the world.

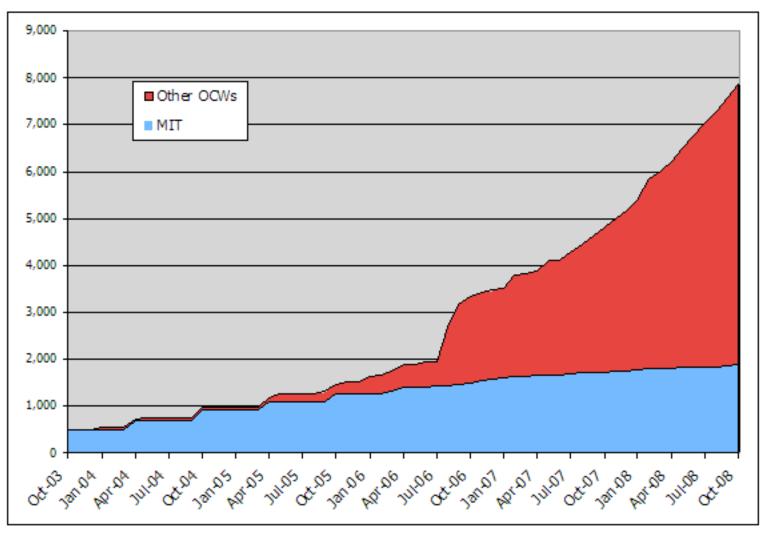
| opics                      | Discuss                          | Number of Units |
|----------------------------|----------------------------------|-----------------|
| Arts and History           | Arts and History forum           | 52              |
| Business and Management    | Business and Management forum    | 31              |
| Education                  | Education forum                  | 38              |
| Health and Lifestyle       | Health and Lifestyle forum       | 21              |
| IT and Computing           | IT and Computing forum           | 25              |
| Law                        | Law forum                        | 6               |
| Mathematics and Statistics | Mathematics and Statistics forum | 28              |
| Modern Languages           | Modern Languages forum           | 15              |
| Science and Nature         | Science and Nature forum         | 65              |
| Society                    | Society forum                    | 57              |
| Study Skills               | Study Skills forum               | 28              |
| Technology                 | Technology forum                 | 28              |
| How to                     |                                  | 8               |







#### **OCWC** member courses 2008



http://ocwblog.org/wp-content/uploads/2008/11/ocwchart.gif





#### The Political Economy of Peer Production

#### Michael Bauwens

produce use-value through the free cooperation of producers

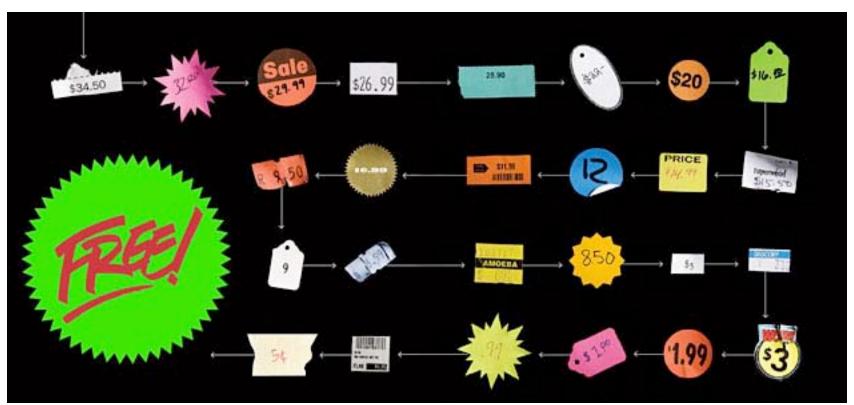
 a 'third mode of production' neither for-profit or public

 NOT exchange value for a market, but use-value for a community

www.ctheory.net/articles.aspx?id=499



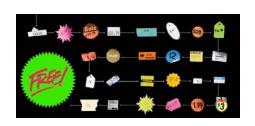
# Chris Anderson's Taxonomy of Free



Wired: http://www.wired.com/techbiz/it/magazine/16-03/ff\_free?currentPage=all







# Chris Anderson's Taxonomy of Free

- 1. 'Freemium: free & "pro" versions
  - 1. 1% of users support all the rest
- 2. Advertising: provide a special audience
- 3. Cross-Subsidies: free lunch if you buy beer
- 4. Zero-Marginal Cost: online music
- 5. Labor Exchange: Digg or Google 411
- 6. Gift Economy: \$\$\$ aren't everything

Wired: http://www.wired.com/techbiz/it/magazine/16-03/ff\_free?currentPage=all

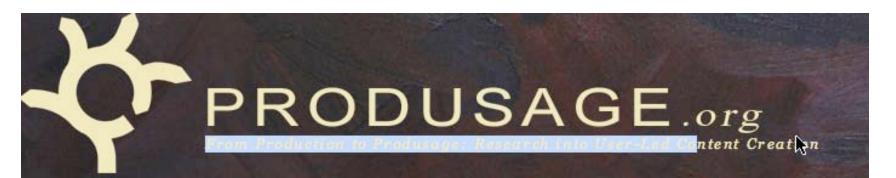




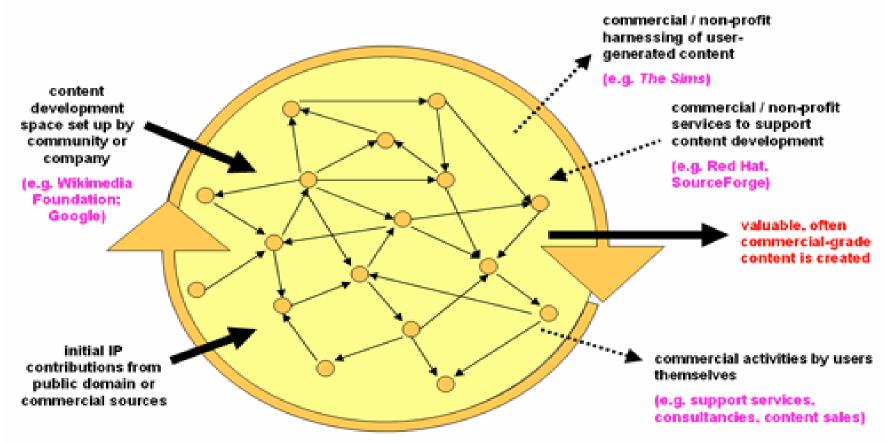
## Prod-Users: From production to produsage

Axel Bruns 2008

- Users as active participants in production of artifacts:
- Examples:
  - Open source movement
  - Wikipedia
  - Citizen journalism (blogs)
  - Immersive worlds
  - Distributed creativity music, video, Flickr



## Produsage



collaborative, iterative, evolutionary, palimpsestic user-led content development



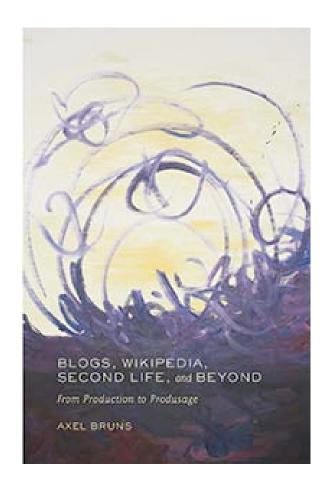


### **Produsage Principles**

#### produsage.org

- Community-Based contributes more than closed team
- Fluid Heterarchy —appropriate to personal skills/interests in loose sub-groups focusing on specific problems
- Unfinished Artifacts –projects are continually under development; development follows evolutionary, iterative, palimpsestic paths
- Common Property, Individual Rewards

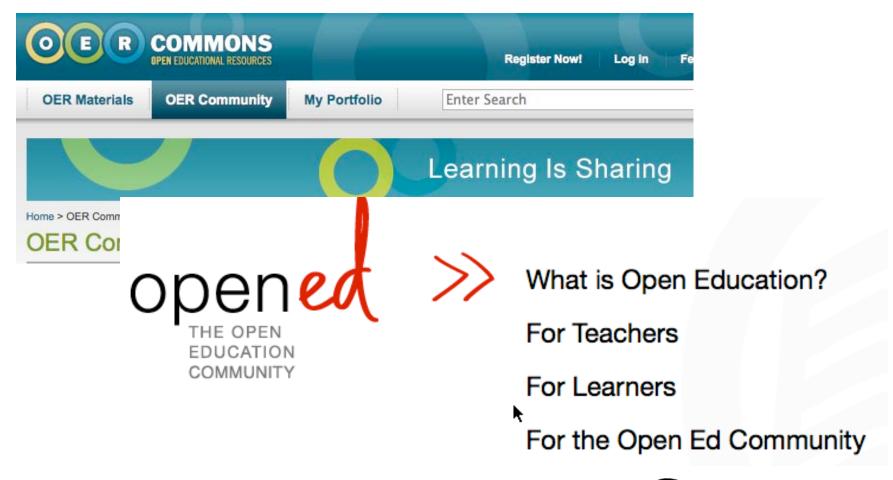
   contributors permit (non-commercial)
   community use, adaptation, and further development, and are rewarded by status capital





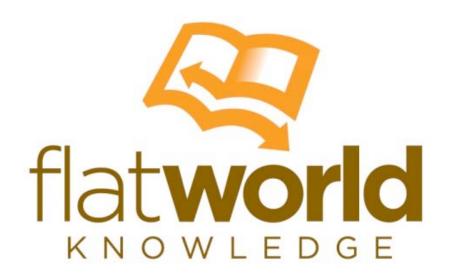






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## **OER Profit making**







http://www.flatworldknowledge.com





## Flatworld Knowledge



CATALOG | FIND MY CLASS | MY(FLAT)WORLD | CART

HI terrya!

#### Open College Textbooks



http://www.flatworldknowledge.com/







You are here: Home → Our Story

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- Open Textbooks. It's your course. Now make it your book. Your call.
- Social Learning. It happens already. We just make it easier.
- A Smarter Way to Do Business. So what's the catch?

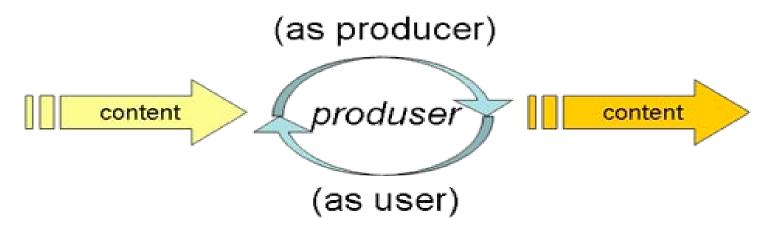
http://www.flatworldknowledge.com/about





## Will Educators and Learners Produse?

- Social software affords, but "build it and they shall come" rarely works
- Is recognition by peers enough reward?
- Will students use OERs with accreditation?

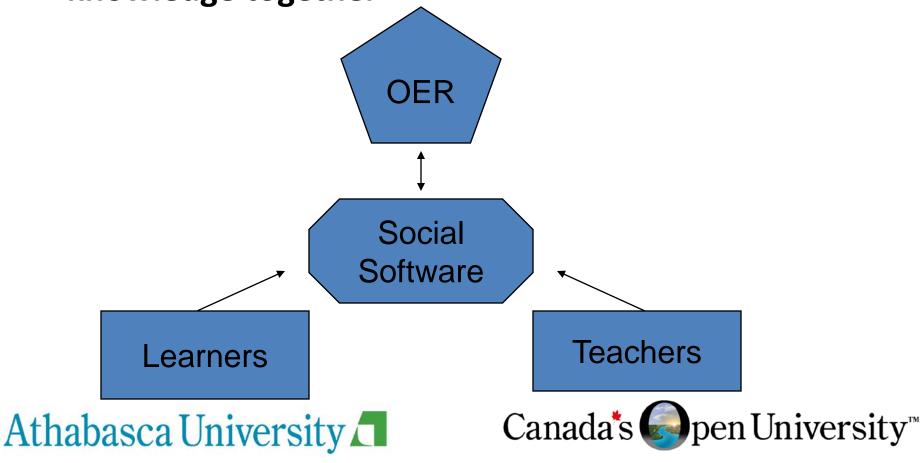






## **Social Software**

 Tools allowing users to get to know each other, produce artifacts, share information and generate knowledge together





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## **Culturally Appropriate OER's**



"e-learning courses are cultural artifacts, embedded with the cultural values, preferences, characteristics, and nuances of the culture that designed them, and inherently creating challenges for learners from other cultures." Edmunsdon, 2009



#### **Culturally Accessible E-Learning:**

## **Cultural Adaptation Process Model**

Low

Edmunsdon, A. 2009

Translation - Globalized English

Localization – relevant examples

- Modularization –reusable objects, lower levels of granularity
- Origination re design by locals for local applications











High

Subject Complexit





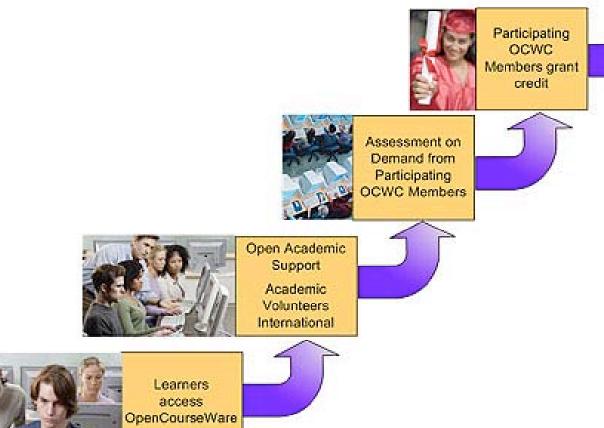
Pres. Obama & open education

 \$500 million for OER in US colleges



## MITOPENCOURSEWARE

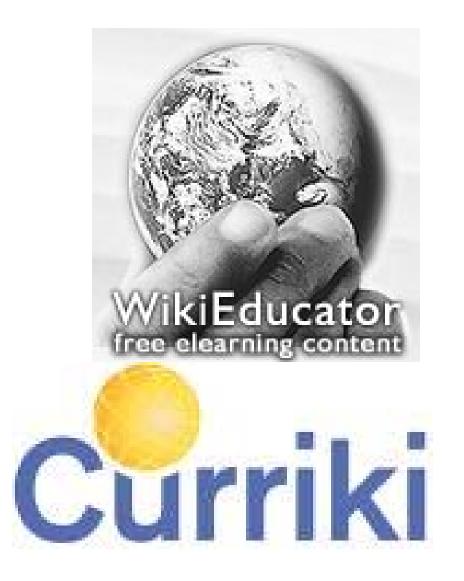




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http://cnx.org/content/m15211/latest/







# UNESCO OER Community

- OER Wiki
- OER Discussion group
- International



https://communities.unesco.org/wws/info/iiep-oer-opencontent





## Technology Enhanced Knowledge Research Institute (TEKRI)

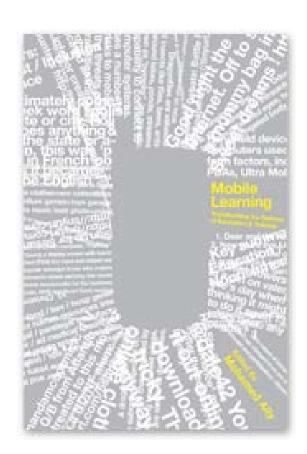


- Adaptivity and personalisation
- Mobile learning
- Social networking

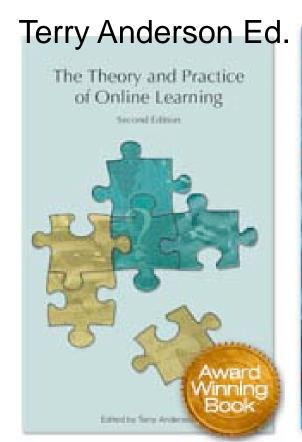
http://tekri.athabascau.ca/

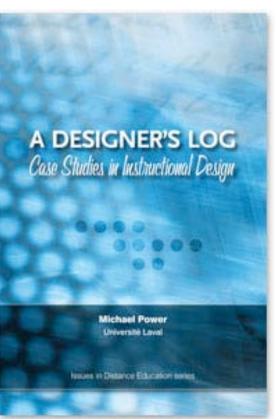
griff@athabascau.ca

### New online/paper texts from **Athabasca University Press**



Mohamed Ally Ed.





www.aupress.ca

Michael Power







# Change



"Let's put all this hype about change and transformation in perspective. It's underhyped."

"There's something coming after us, and I imagine it is something wonderful."

Danny Hillis, Wired

Canada's pen University™

# Change

"Let's put all this hype aboy ase, in the chart of the ransformation in persp. In the chart of t

Danny Hillis, Wired

Canada's pen University™

# Change

andatory, survival is an "Let's put all this hype above crhyped." transformation in persp

omething after us, and I gine it is something wonderful." "

Danny Hillis, Wired

Canada's pen University™

## Whither OER?

- Do you use OER products in your teaching programs?
- Have you created an OER product for use by others?
- Why don't your colleagues use OER resources?
- Will students use OER and avoid using your institution's programs?

