Supporting an Open Learning Network

Free and Open Source Software, Open Knowledge, Education and Technology

Stephen Downes

National Research Council Canada

V Jornadas de SIG Libre, Girona, Spain

24 March 2011

http://www.youtube.com/watch?v=GrxgpS5bmcc

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- Learning and cognition happen in a network
- Networks need to be open in order to function

The Argument in One Slide

- Freedom to run, to read, to share, to modify

- Perspectives on freedom, as holder, as searcher

- Free software or free people?

http://www.youtube.com/watch?v=9sJUDx7iEJw

- Openness – standards, software, systems
- Openness – educational resources, courses, assessment

Openness in Education

Learning Standards Roadmap

- Aviation Industry CBT Committee (AICC)
- Instructional Management Systems (IMS)
  - Learning Object Metadata (MOM)
  - Content Packaging   http://www.imsglobal.org/metadata/
  - Learning Design
  - Common Cartridge (CC)
  - Learning Tools Interoperability (LTI)
- IEEE Learning Tech. Subcommittee (LTSC)
  - 1484.12 LOM   http://ltsc.ieee.org/wg12/
- Advanced Distributed Learning
  - SCORM   http://www.adlnet.gov/
- ISO/IEC JTC 1 SC 36
  - ISO/IEC 19788 Metadata for Learning Resources (MLR)

Friesen: http://www.docstoc.com/docs/33119602/Metadata-for-a-collection-of-Networked-Learning-Resources

- Moodle   http://moodle.org/

  http://www.youtube.com/watch?v=WvClv5KCbeE&fmt=22

- OKI/Sakai, Elgg, Atutor, LAMS http://www.schoolforge.net/

- Public Knowledge Project http://pkp.sfu.ca/

Open Source Software

Open Educational Resources

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

http://coar-repositories.org/

http://www.oergrapevine.org/OER_projects

http://wiki.oercommons.org/mediawiki/index.php/Projects

http://creative_commons.org/

http://cnx.org/
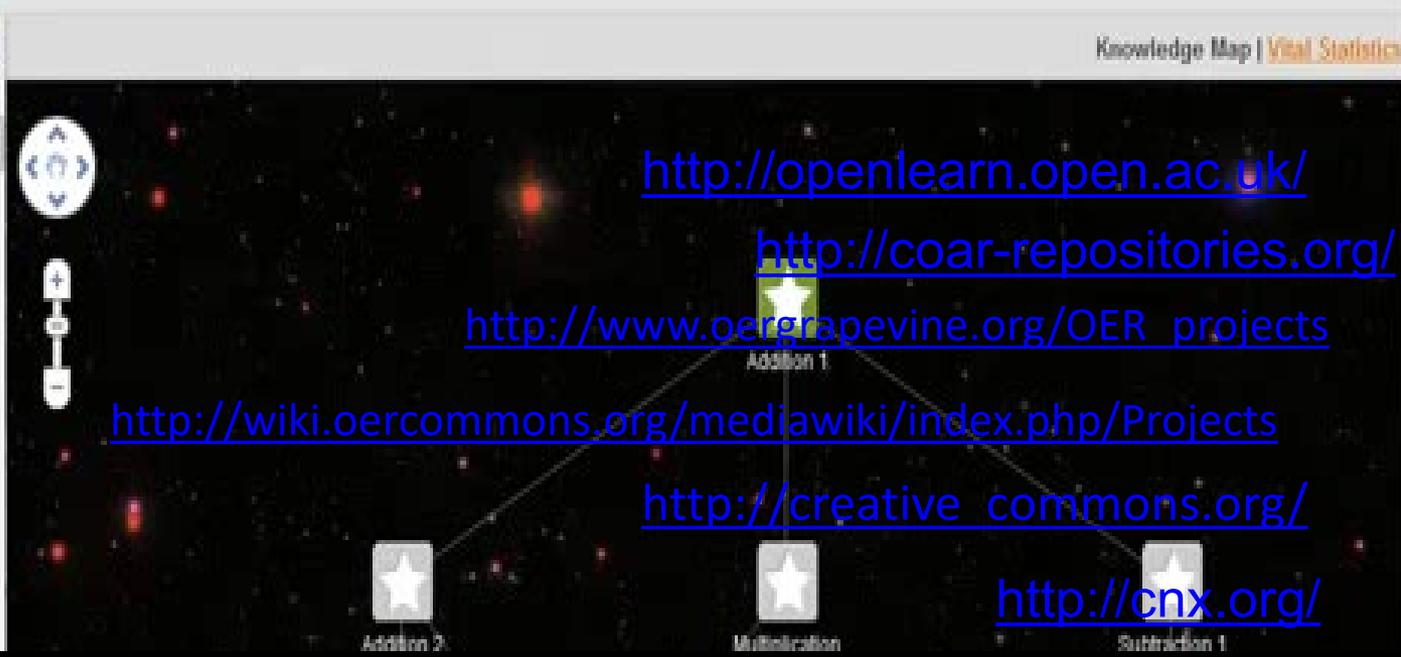
- Projects: OCW, Khan, MERLOT, Connexions, SPARC, BOAI, Open Archives Initiative, COAR, OU OpenLearn
- Licensing: GFDL; CC by, SA, NC, ND

http://www.youtube.com/watch?v=hw5k98GV7po

- Models: Endowment, Membership, Donations…
- Issues: Lock-in, high-bar, flooding, conversion

Sustainability Issues

http://www.youtube.com/watch?v=eW3gMGqcZQc

- MOOC: Massive Open Online Course

- Network Design, Community Based   http://cck11.mooc.ca/

Open Courses

Other MOOCs

- Ds106 – Digital StoryTelling http://ds106.us/
- Critical Literacies http://www.downes.ca/post/54875
- PLENK http://connect.downes.ca
- Learning Analytics http://www.learninganalytics.net/?p=28 http://www.elearnspace.org/blog/2010/08/25/what-are-learning-analytics/
- PLEK12 http://community.education.ufl.edu/community/pg/pages/view/77059/
- EC&I 381 http://eci831.wikispaces.com/
- Networked Seminar http://cogdogblog.com/2011/01/23/grandmas-mooc/

- Autonomy – each node is self-governing
- Diversity – nodes encouraged to have varying states
- Openness – unhindered movement of signals, nodes
- Interactivity – knowledge and learning are emergent
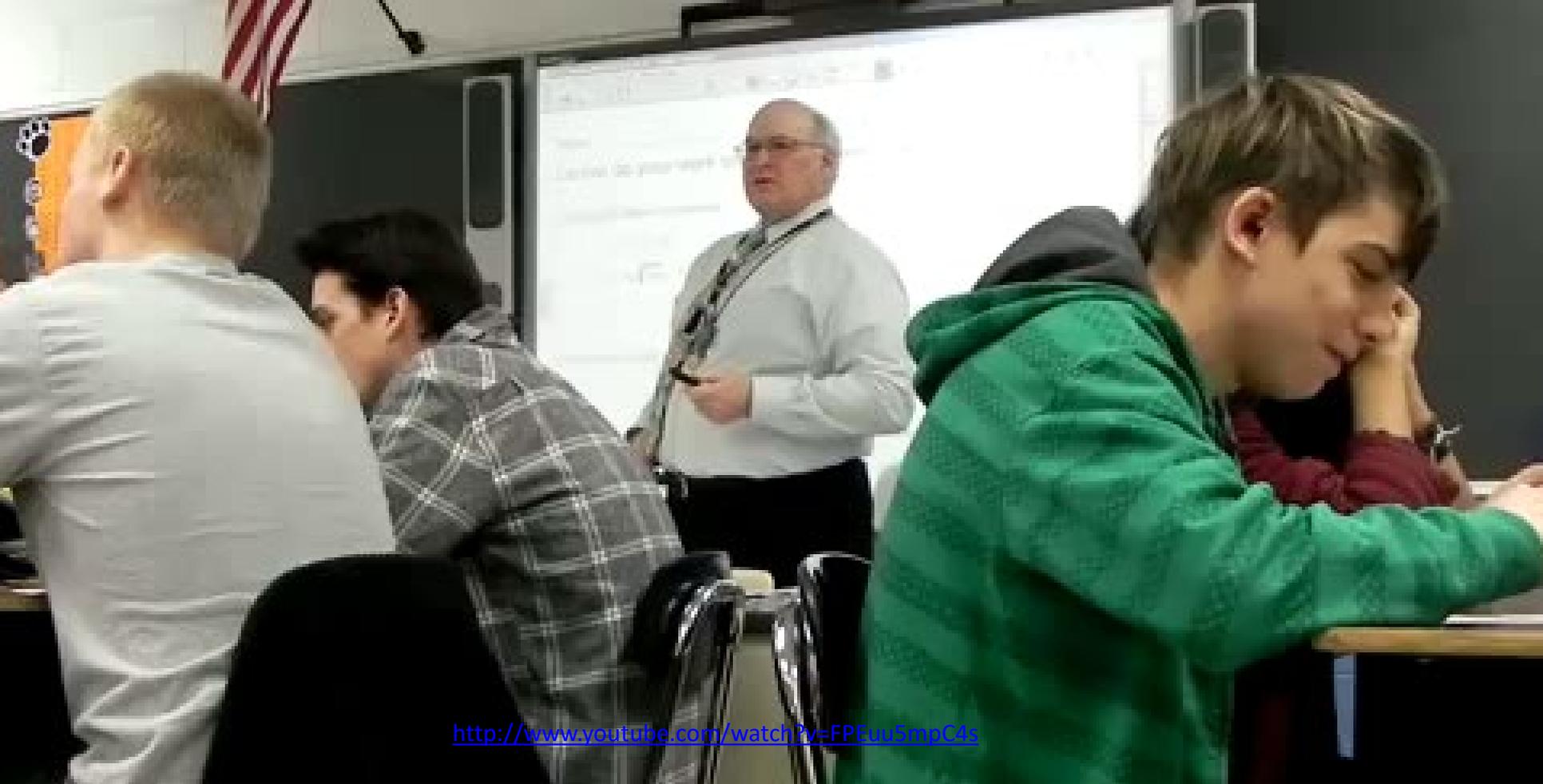
Aggregate – gather resources from wherever they may be

Remix – mash up, put together, join

Repurpose – localize, adapt, mark up, tag, review, lip dub

Feed forward – as video, slides, graphics, text

Flytouch3 Superpad2 Android 2.2 Tablet PC Supporting Flash Play 3G Network

- Big Data, Web of Data, Semantic Web, RSS, Geo, FOAF…
- Mash-ups, APIs, the Cloud, Social Network

The Open Learning Ecosystem

http://blog.ouseful.info/

http://www.youtube.com/watch?v=X0iI0pgTUx0

- http://www.downes.ca
- http://www.downes.ca/me/presentations.htm
- Free Learning

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