



NRC-CNRC

*Institute for
Information
Technology*

E-Learning 2.0

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National Research Council Canada

TESIC, Gander, NFLD, October 28, 2005



National Research
Council Canada

Conseil national
de recherches Canada

Canada

The Millennials



- Assume Technology
- Multitask / MultiInfo
- Twitch Speed
- Institutions Irrelevant

<http://www.abanet.org/lpm/lpt/articles/mgt08044.html> - ABANet

<http://www.educause.edu/educationthenetgen> - EDUCAUSE

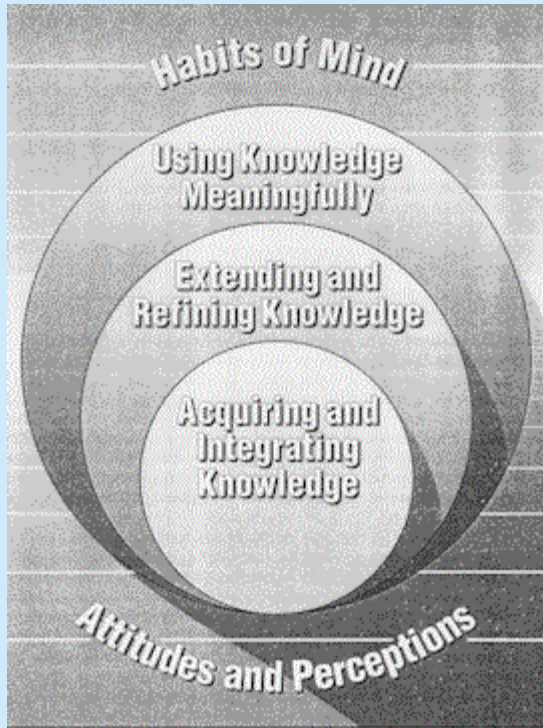
Cluetrain



- Networked Markets
- Conversation
- Tear Down the Wall
- De-cloaking, getting personal

<http://internettime.pa.v4.breezecentral.com/p20304607/> - Cross

Learner Centered Design



- Autonomy - Choice
- Active Learning
- Interdependence between teacher and learner - power

http://www.aishe.org/readings/2005-1/oneill-mcmahon-Tues_19th_Oct_SCL.html - O'Neill and McMahon

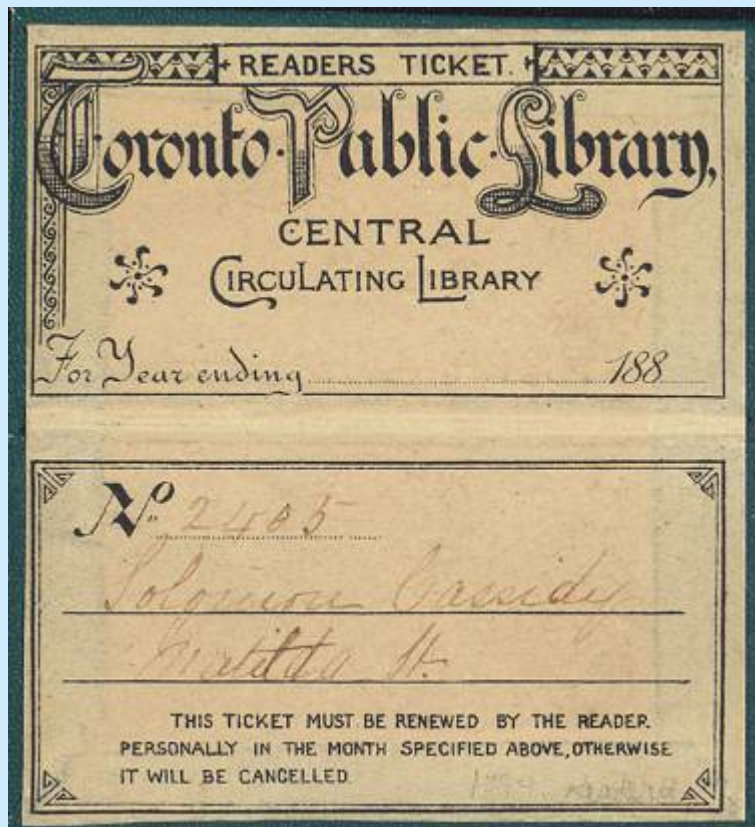
Connectivism



- Knowledge resides in a diversity of opinions
- Nurturing and maintaining connections
- Patterns, currency
- Decision-making as a learning process

<http://www.elearnspace.org/Articles/connectivism.htm> - Siemens

Open Access



http://www.tpl.toronto.on.ca/abo_his_index.jsp

- The Copyright Debate
- Napster, file-sharing
- Open source, open content

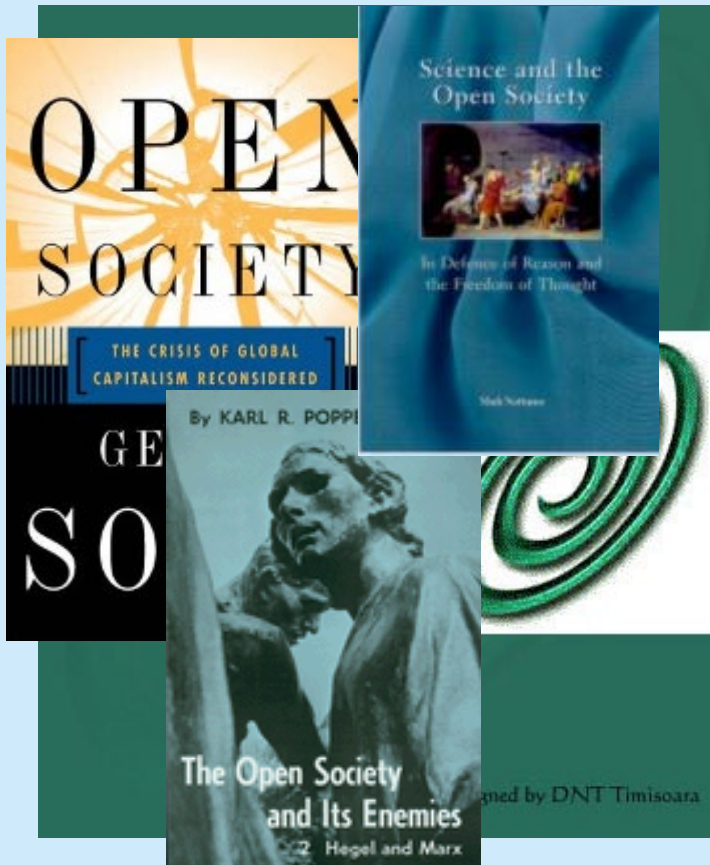
<http://creativecommons.org/> -
Creative Commons

<http://www.soros.org/openaccess/>
- BOAI

<http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1041806822>

<http://www.downes.ca/dwiki/?id=Reusable+Media%2C+Social+Software+and+Openness+in+Education>

The Open Society



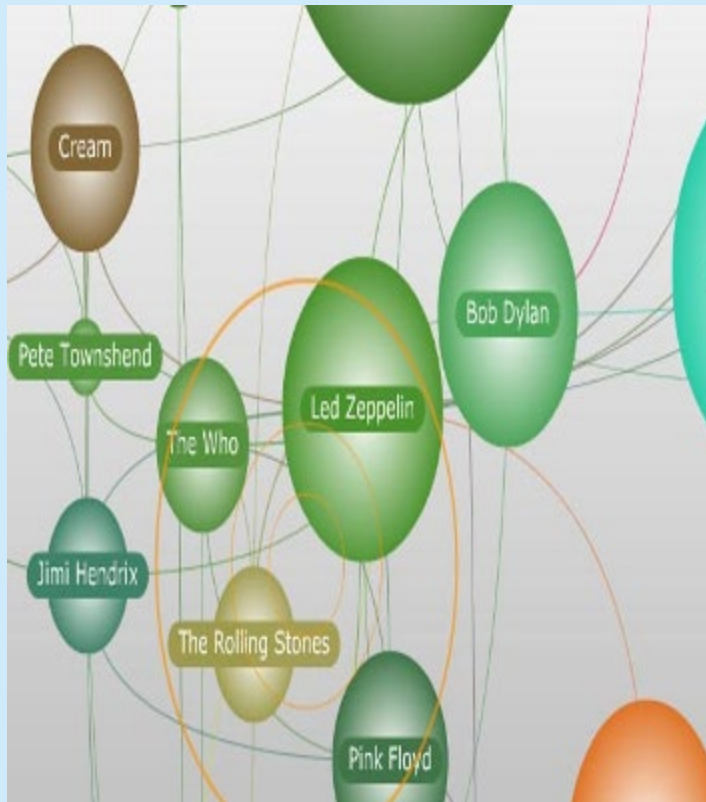
- Transparency
- Accountability
- Partnerships

<http://www.nplc.com/> - Tapscott

<http://edit.mougayar.com/OpenCoorporation> - Mougayar

http://smartpei.typepad.com/robert_patersons_weblog/2005/02/going_home_our_.html - Paterson

The Web 2.0



- The Interactive Web
- Social networks, power laws

http://www.digital-web.com/articles/web_2_for_designers/ - MacManus and Porter

http://www.shirky.com/writings/powerlaw_w_eblog.html - Shirkey

<http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1109302318> – Downes

<http://www.leader-values.com/Content/detail.asp?ContentDetailID=984> - Bond

http://business2.blogs.com/business2blog/retail_ecommerce/

The Blog



- User generated Content
- Personal, opinionated
- Network of interactions
- Blogs and learning

<http://www.educause.edu/pub/er/erm04/erm0450.asp> - Downes

<http://www.blogger.com> – Blogger

<http://www.livejournal.com> –
LiveJournal

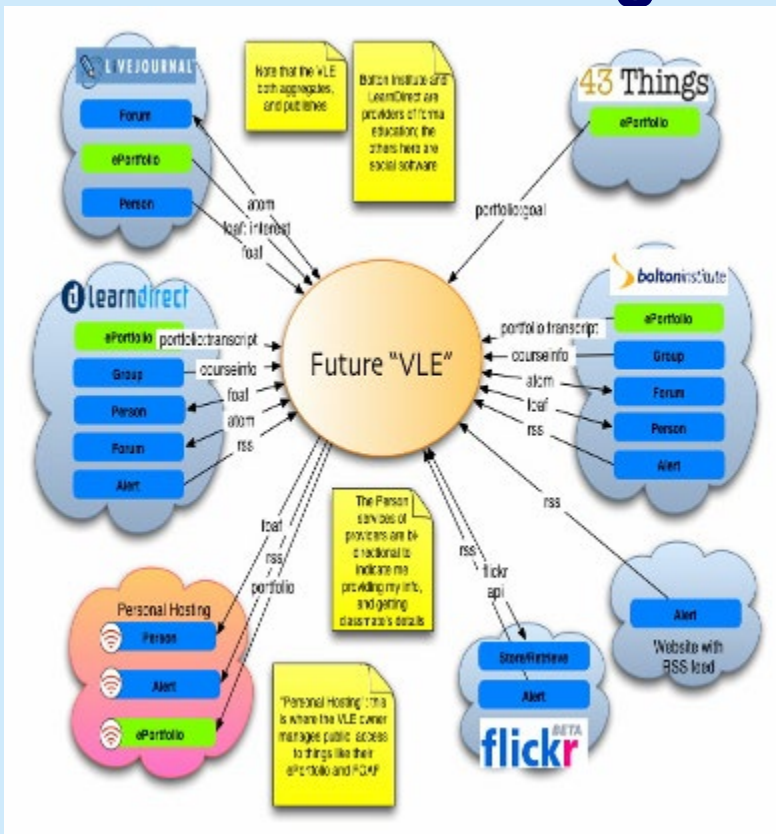
<http://www.edtechpost.ca/gems/matrix2.gif>
if - Leslie

Personal Learning

- A web of content
- The personal learning centre

<http://www.cetis.ac.uk/members/scott/blogview?entry=20050125170206> - Wilson

<http://elgg.net/> - ELGG



Podcasts, Screencasts and Beyond



- User generated multimedia

<http://www.ipodder.org/> - iPodder

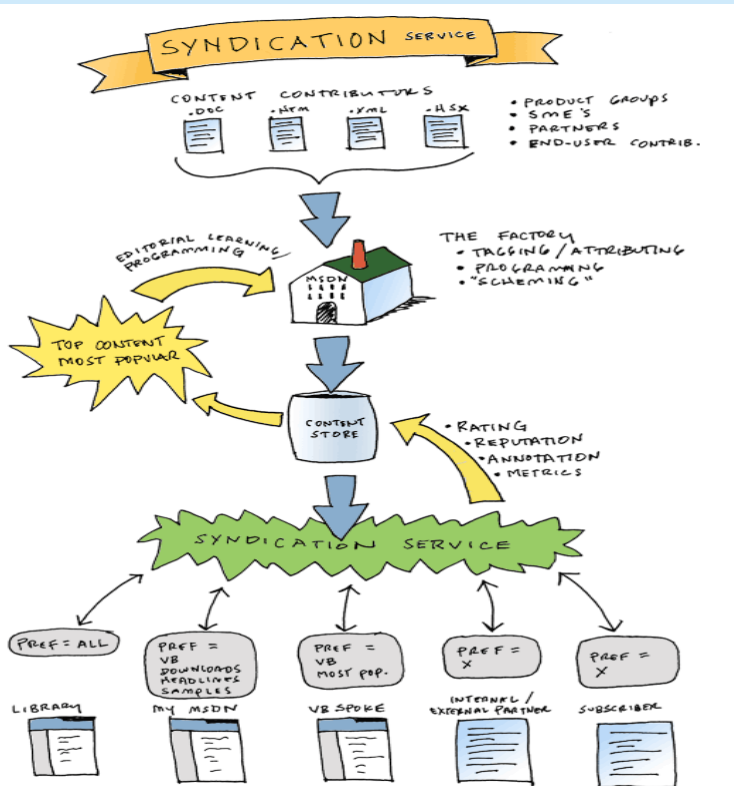
<http://www.flickr.com> – Flickr

<http://en.wikipedia.org> – Wikipedia

http://blog.ericrice.com/blog/_archives/2005/6/4/909411.html - Rice

<http://blog.educause.edu/penrose/archive/2005/06/07/1902.aspx> - Penrose

Content Syndication



- XML generation and aggregation

- ‘Selective Attention’ (like the brain)

- Aggregate, remix, repurpose, feed forward

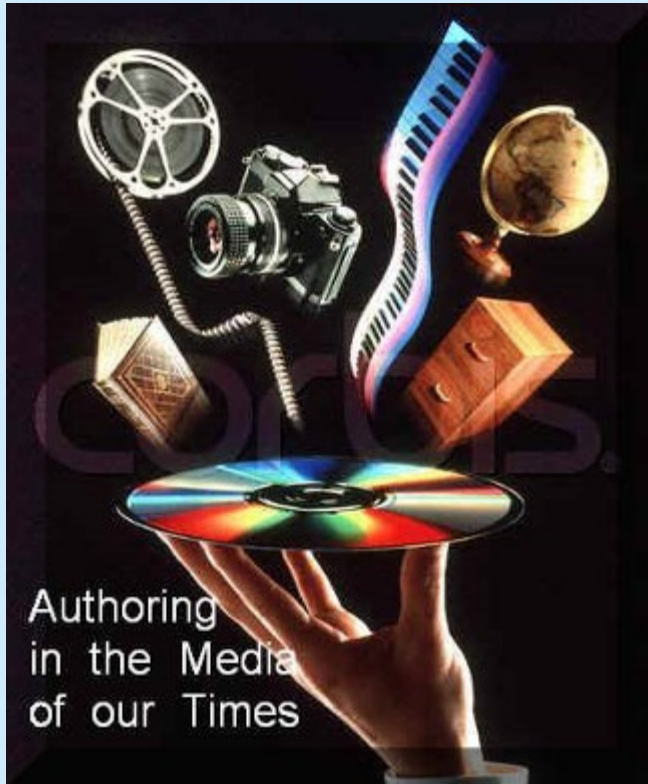
<http://www.google.ca/search?q=downes+rss> – Downes

<http://www.technorati.com> – Technorati

<http://www.blogdex.net> – Blogdex

<http://www.bloglines.com> – Bloglines

E-Portfolios

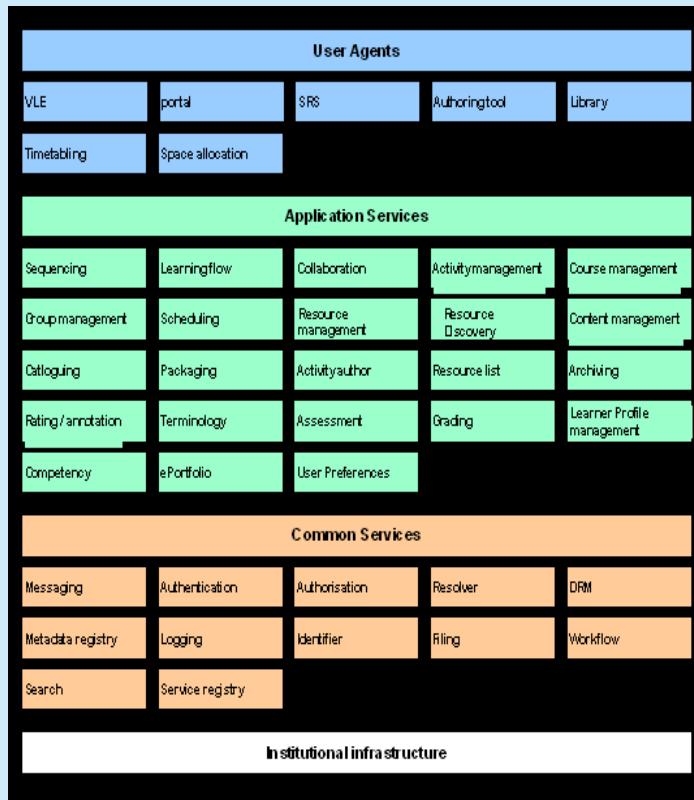


- Space for personally created content
- May be used for evaluation purposes as well

<http://www.eradc.org/> – ERADC

<http://eport2.cgc.maricopa.edu/> –
Chandler-Gilbert at Maricopa

E-Learning Frameworks



- Array of common processes and services

- CM's E-Learning Stack, IMS Abstract Framework, JISC, OKI

<http://www.elframework.org/framework/ork/> – JISC

<http://www.okiproject.org/specs/index.html> - OKI

<http://www.edtechpost.ca/mt/archive/000689.html> - Leslie

Games and Simulations



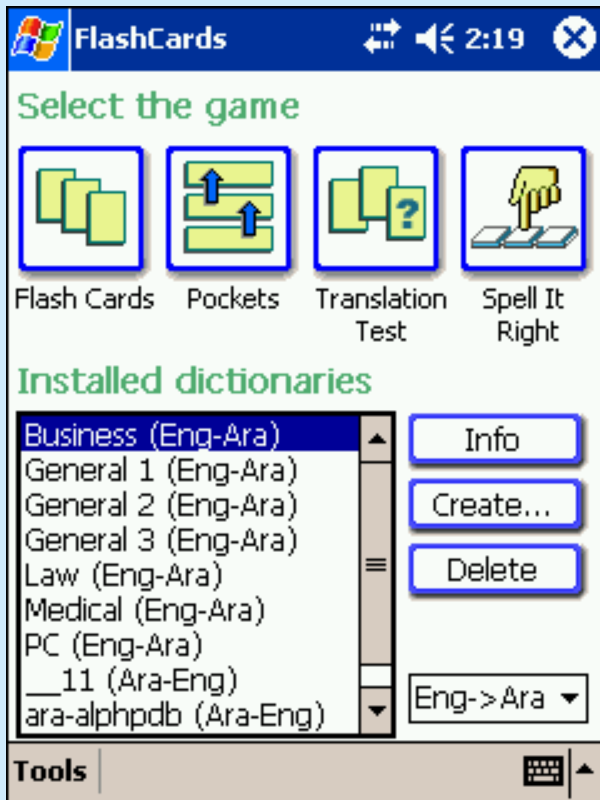
- Interactive environment
- “Hard fun”

[http://www.papert.org/articles/Doeseasyd
oit.html](http://www.papert.org/articles/Doeseasyd
oit.html) – Papert

[http://www.downes.ca/cgi-
bin/website/view.cgi?dbs=Article&key=107938514
8](http://www.downes.ca/cgi-
bin/website/view.cgi?dbs=Article&key=107938514
8) – Gee

[http://www.downes.ca/cgi-
bin/website/view.cgi?dbs=Article&key=111627437
5](http://www.downes.ca/cgi-
bin/website/view.cgi?dbs=Article&key=111627437
5) - Aldrich

Mobile Learning

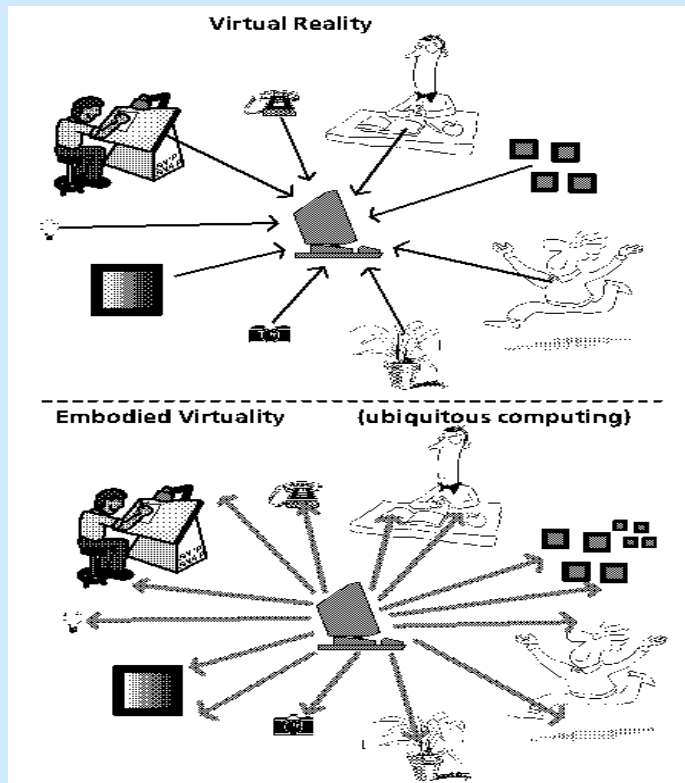


- Learning that travels with you

<http://www.educause.edu/apps/er/erm05/erm0532.asp> - Wagner

<http://ferl.becta.org.uk/display.cfm?page=65&catid=192&resid=5194&printable=1> – Wood

Ubiquitous Computing

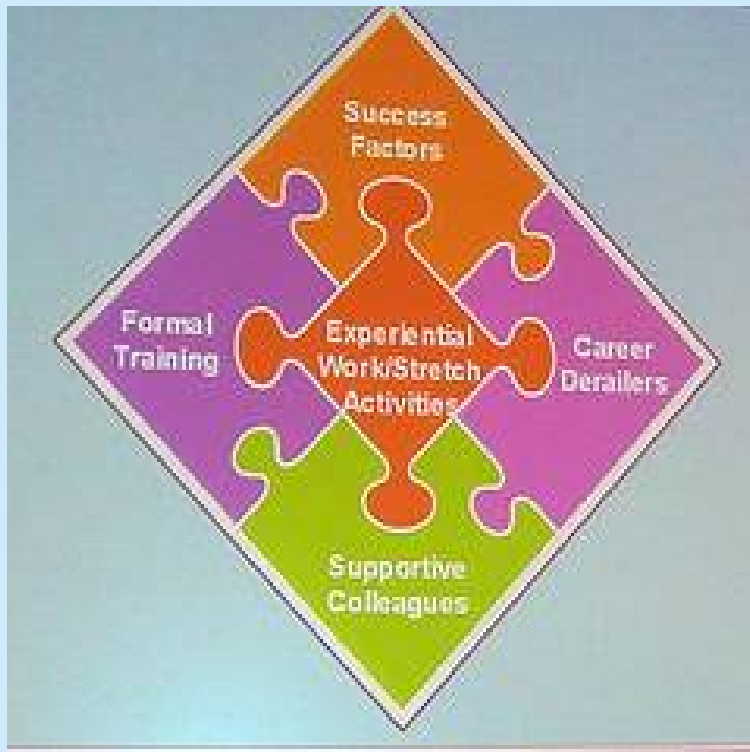


- One person – many computers
- Not just mobile – RFID and more

<http://www.ubiq.com/hypertext/weiser/UbiHome.html> – Weiser

<http://www-2.cs.cmu.edu/~aura/> - Project Aura

Workflow Learning



- Learning embedded in work processes

<http://metatime.blogspot.com/> –
Cross

The Living Arts



- The ‘learning’ in e-learning
- Learning and Living merge
- Mobile welding shop...

<http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1118363044> - Milliron

http://www.downes.ca/files/Online_Learning.ppt - Downes

<http://www.downes.ca/cgi-bin/website/research.cgi?item=1117225458> – Downes

<http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1101829692> – Downes

http://www.acm.org/ubiquity/views/v4i25_downes.html - Downes

A Digital Democracy?



- Ownership of the platform
- Ownership of the data

<http://www.democraticmedia.org/> - Center for Digital Democracy

<http://www.markfiore.com/animation/voting.html> – Wood

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<http://www.downes.ca>

Science
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