Reusable Media, Social Software and Openness in Education

Stephen Downes Instructional Technology Institute Logan, Utah, September 4, 2004

May, 1995

AOL, Prodigy, CompuServe join the internet... why?

"Gradually, people are coming to realize that the term 'free' has to do with access, not with price. . ." – GNN's Tim O'Reilly

http://www.december.com/cmc/mag/1995/jul/cutting.html

But he also said...

"In looking to start up its Internet service, AOL is certainly hedging its bets, half-hoping perhaps that the Net will go away and leave them their proprietary business."

The tension has never gone away...

Open vs. Closed

Broadcast vs. Conversation

Institution vs. Individual

Hierarchy vs. Network

Centralized vs. Decentralized

Product vs. Remix

Planned vs. Chaotic

Static vs. Dynamic

Push vs. Pull

The trigger...

When the internet came to the desktop, people gained a great new capacity

New technologies...

Text editors, email clients, HTML, web servers, digital media, blogs...

New markets...

A global reach via greater connectivity, peer to peer, disintermediation... Traditional media and services, quite correctly, perceive this as a threat...

The fax machine...

vs. courier services

The internet

vs. television



vs. the telephone

Blogging

vs. newspapers

In general, new technology is introduced in two stages...
First, it duplicates existing products and services...
Second, it obliterates them...

Traditional models of production, business models, and distribution channels are threatened

Production...

Demand vs. Volunteer

Enclyclopedia Britannica vs. Wikipedia

Business Models...

Proprietary and commercial vs. free and open source

Windows vs. Linux PDF vs. Plain Text Elsevier vs. Open Archives

Distribution models...

Broadcast vs. network

MPAA vs. Gnutella NY Times Editorial vs Instapundit CD-ROM vs. online But even as we bring our local forms of interaction – conversations, friends, sharing – into the global arena... ... the global forms of interaction are being brought into our homes... copyright, points clubs & air miles, profiling, tracking, authentication "If 'technology' means 'everything is a copy' which, of course, is the design of the network and if the consequence is that everything is copyrighted - then all remix today presumptively requires the permission of someone first." (paraphrase)



Lawrence Lessig

<u>http://www.downes.ca/cgibin/website/view.cgi?dbs=Article&key=1094072167</u> ... infiltrating not only our homes and our lives but even our language...

> Aspirin, xerox, coke, just do it, piracy, collateral damage, ethnic cleansing...

Even as we become more free, the calls for a closed network are becoming more insistent and more pervasive...

Bundles...

Music albums, preformatted radio, Elsevier (again), image libraries, cable packages, Windows, 'enterprise solutions'

Closed Spaces and Markets...

Friendster, Orkut, site registration, federated search, the LCMS...

Learning Design...

The analogy of the play vs. the analogy of a game... direction vs action, package vs. materials

Media Formats...

PDF vs. HTML/XML, Real or WMF vs MP3

Digital Rights...

XrML and ODRL (whatever is not expressedly permitted is prohibited)



Dan Rehak: 'Behaviours, services, etc: identification, authorization, authentication, digital rights, etc., all have to be worked out and all have to be defined in the system.' (paraphrase)

http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1094171195

Really? Did RSS work that way? Blogs?

When we understand what we are looking for we can see it everywhere...

Types of barriers...

Lock-out

Subscription access, user registration, passwords, network authentication...

Lock-in

Proprietary content and software, closed markets, 'solutions'

High Bar

APIs and interoperability, web services, Java, metadata

Flooding

Starbucks and AOL, spam

Legal

The attack on fair use, the attack on free software, SCO, DMCA

... and we, as a community, are complying...

IMS Metadata

Why 87 fields and detailed taxonomies? Why not Dublin core... or even RSS? Why metadata at all?

SCORM

Why a content (resource) based independent study mode based on commercial content (and providers, and LMSs) and no interaction?

Learning Design

... wherein we tell people what they ought to do, rather than provide what they need when they need it... directed play vs. improv

Digital Repositories

Why would we adopt a federated system characterized by closed gates, instead of a harvest system characterized by open access?

CORDRA

Object identification and handles... and permissions and authentication built into the backbone of the network? In the history of the internet, ask yourself, what has been successful, what worked?

FTP, email, Usenet, the web, blogs, RSS...

What did these have in common?

They were... - simple - decentralized - open - free... etc.

IMS landed on my desk in 1997 or so...

Where is my 'blogger' of e-learning? Where is my RSS?

One view... the market will do it for us (Lessig?)...software companies, publishers...

I have no faith...

It is worth noting – none of these major waves were commercial innovations – commercialization only came after – html and web pages, simple, easy to use... mailing lists... blogs.... RSS.... Photo blogs....

'If you put too many features up front, it's too feature-heavy. We have to say, we're not growing communities, it's communities that are growing communities...

Dave, for example, had a community using Slash code. But the moderation system is so extensive, it killed the community.' (paraphrase)



David Wiley and Brent Lanbert

We have to do it ourselves...

Existing institutional structures – yes, including universities – will tend to throw up barriers rather than open access...

'We believe that collective minds are better than a genius translators. If we tried to hire a genius translator... If you use a publisher and the translation isn't good, you can't fix it. But our way, we can fix it. We depend on good will. We got a lot of volunteers, doctors, lawyers... Ordinarily, you cannot buy their services, that's not their job. We ask them to donate their expertise.' (paraphrase)



Luc Chu

http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1094072840



the idea that new media is like a vocuabulary...

but nobody can learn only by listening, nobody can teach only by speaking

We need to be able to speak, to use the syntax of our new langauge...

'There are two ways to do it. Wrap everything up in one bundle, call it a folder, and you just drag and drop the folder. It's prepackaged. The other way to do it is that it's not prepackaged, it's just there.' (paraphrase)



Jacques du Plessis

.http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1094072450

'Programs are to digital media what syntax is to language. With one, it's a package, signed, sealed and delivered. With the other, it's open. The conceptual way in which you deal with it in an instructional sense is open. In the prepackaged way, the decision has been made. In the open mode, I deal with it as it arises.'

We have to have conversations

- need negotiation, for example

We have to have diversity

- access across multiple communities, new resources, new ways of thinking

We have to have symbiosis

- shared resources, elimination of redundancy (otherwise, we will be paying for all those features in Word forever...)

We have to have feedback, checks and balances

back propagationrecommenders and reviews

We have to have emergence

'The wisdom of crowds', the idea of democracy, the marketplace

'So the pedagogy of peer to peer process, we get the concept of 'regotiation' - is a term that captures this process of posting a need, responding to a need, posting a resource, etc, the iterative process that meets the need...

The more diverse the community, the more stable it tends to be. Boundary members are especially important - creates links with other groups. ' (paraphrase)



Erin Brewer

http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1094170319

The mechanism...

- filter

repurposeremixfeed forward

We want layers, not channels

Instead of trying to organize the network, we should be looking at how it can organize itself... We are now at the point where we have pretty much replicated the non-digital environment – online courses, class, newspapers, etc. But the potential of the net is as a communications tool... speaking not only in the old language, but in the new language We have to gain our voice, to speak for ourselves, to reclaim our language, our media, our culture

Go fast, go cheap, and let it go out of control...

Lamb, Levine, Norman – Small Pieces Loosely Joined

http://careo.elearning.ubc.ca/cgi-bin/wiki.pl?SmallPiecesLooselyJoined

Marie Jasinski ~Educhaos

http://elearn.ucalgary.ca/showcase/presentations/pres3.html

Reusable media – we need a blogger of learning content

Social software – we need a way to support conversations and not just content Learning – we need to leverage the principles of self-organizing networks...

We need to transform learning...

from something we do for people to something they do for themselves...

http://www.downes.ca