Empowerment vs. Control
What’s Your Openness Quotient?

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What’s Your Mission?
Imagine you’re an IT director or CIO in a corporate bank,
What’s your mission?

Openness Dialectic
- Students are attracted by Technology,
  BUT Institutions restrict access to Technology.
- Instructors try to incorporate Technology,
  BUT Policies restrict their Technology usage.
- Students, instructors, guests have laptops,
  BUT their network access is restricted.
Put Simply ...

What are the **tradeoffs** between Technology **security** vs. **Empowering** faculty & students (and guests)

What’s your Openness Quotient for ...

- Open Source *Classroom Software?*
- Open Content? *(copyright)*
- Open Networks? *(security)*

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Sample Institutions

- **Colleges and Universities**
- School Districts and Intermediate Units
- Libraries
- Museums
- Technology Partners such as MAGPI, Marratech, Spiderweb & Elluminate
Dialectic Impacted by...
- Policies
- Technologies
- Knowledge
- Institutional Perspective
- Personalities

Open Source Software
- High-quality *discipline* software (not enterprise software)
- Minimal initial and ongoing cost
- Collaborative, communication, network-aware features
  - Open source software began in universities...

FLOSS-2
- No licensing/recordkeeping issues
- No serial number / installation issues
- Students & faculty can use at home
- Frequent updates / upgrades
  - OSS s/w becoming shadow global standard
Computer Science OSS

- Open, modifiable Operating System
- Use latest programming languages in fast-changing field (e.g., Python, Ruby)
- Half the Internet runs on OSS
  - Google, eBay, Amazon, etc.

Open Source Concerns

- Not on list of approved software
- How can we trust it?
- Who will support it?
- Who is responsible ...
  - ... if something bad happens?

Open Content

- More friendly copyright model
  - http://www.creativecommons.org
  - http://ocw.mit.edu
- More up-to-date
  - Wikipedia & YouTube
- Participatory, publishing-friendly
  - Wikibooks, Project Gutenberg
Open Content Concerns

- Do we have the rights to use it?
- How do we know we can post or publish it safely/legally?
- How can we trust its accuracy?
- Who is responsible ...
  ... if something bad happens?

Content Publishing Policy

What is our responsibility to protect the digital rights of our
- FACULTY?
- STUDENTS?
- INSTITUTION?

The Fourth Network

1. Corporate/Government/Military
2. Home
3. K-12 School
4. Higher Education
Open Networks
- Access to world's information
- Access to high-bandwidth multimedia: audio, video, animation
- Communications systems for videoconferencing, dist. learning

Network Publishing
- Multimedia publishing: webcasting, podcasting, streaming media
- Faculty and students collaborate & publish by Blog, Wiki, and Web 2.0 (other unstructured applications)

Foreign Network Usage
- Outside presenters can use presentation & network facilities
- Faculty and students can use their laptops on the network
**Presentation Issues**
- No speakers in smart classroom.
- Presentation console has no laptop video cable (or audio cable).
- Presentation console is locked (by policy), so cables can’t be accessed.
- Network cable inaccessible.

**Open Network Issues**
- Only college-owned computers are permitted on the network.
- The ports I need are blocked.
- The services I need are blocked (java applets)

**Open Network Issues-2**
- Sites I need to demo/use are blocked.
- Network bandwidth or congestion degrades real-time rich media.
- IT doesn’t support requested service.
- Faculty web pages/sites “discouraged.”
Typical Web Services

- Conferencing systems (desktop)
- Videoconference
- Audioconference
- Collaboration Wiki
- CmapTools collaborative organizer
- Moodle Content Management System

iLinc Japanese Instruction

- iLinc needs only port 80!

CAPE Elluminate Service

- Our Elluminate service requires only port 80!
Marratech server runs on TCP ports 8000, 8001 & UDP 52000-52999

But, our wiki server runs on port 8000.

And, our Cmap server runs on port 8001.
Moodle Server & Impatica

Moodle designed to empower & publish rather than control.

In Summary

- A “business” or “university” model?
- Control by IT? Administration? Faculty?
- Flexibility vs. Stability/Manageability
- Empowerment vs. Control

Thank You!

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