COIL – Scaffolding Web 2.0 Technologies

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Web 2.0

- Web 1.0 – Essentially read only, no interaction
- Web 2.0 - encompasses a variety of different meanings that include an increased emphasis on user generated content, data and content sharing and collaborative effort, together with the use of various kinds of social software, new ways of interacting with web-based applications, and the use of the web as a platform for generating, re-purposing and consuming content.

Web 3.0

- Web 3.0 – The Semantic Web
  - Think Watson!! The network knows you and can navigate and retrieve information based on your preferences.
  - Not here yet but coming

Web 2.0 & Higher Ed Learners

- The digital divide still exists

- Nevertheless, the use of Web 2.0 technologies is pervasive in all age groups from 11 up

- Use of Web 2.0 leads to new sense of communities of interest and boundaries in Web space, e.g. personal space (messaging), group space (social networking), publishing space (blogs, YouTube, Twitter).

Web 2.0 & Higher Ed Learners

- Engaging with Web 2.0 tools develops 21st century learning and employability skills, e.g. communication, collaboration, creativity, leadership and technical proficiency

- Information literacies, including searching, retrieving, critically evaluating information from a range of appropriate sources and also attributing it – represent a significant and growing deficit area

Understanding Web 2.0

- Basic types of Web 2.0 technologies
  - Personal Messaging Systems, e.g. Blogs, Twitter
  - Collaboration environments, e.g. wikis, Google Docs, Second Life
  - Social Bookmarking, e.g. delicious, Bibsonomy
  - Content sharing systems, e.g. Flickr, Scribd
  - Social Networks, e.g. Facebook, LinkedIn
  - Mashups , combinations of multiple Web 2.0 content and components

Web 2.0 uses in Higher Education

- Personal Messaging Systems
  - A group of bloggers using their individual blogs can build up a corpus of interrelated knowledge via posts and comments. This might be a group of learners in a class, encouraged and facilitated by a teacher, or a group of relatively dedicated life-long learners.
  - Teachers can use a blog for course announcements, news and feedback to students.
  - Blogs can be used with syndication technologies to enable groups of learners and teachers to easily keep track of new posts

Web 2.0 uses in Higher Education

- Collaboration Environments
  - For collaborative work over the web, either edited simultaneously or simply to share work edited by different individuals at different times.
  - Can be used in class projects, and are particularly suited to the incremental creation of knowledge by a group, or production of collaboratively edited material, including material documenting group projects.
  - Online environments for tutoring of remote students

Web 2.0 uses in Higher Education

- Social Bookmarking
  - Teachers and learners can build up collections of resources, and reading lists
  - Groups of users with a common interest can team together to use the same bookmarking service to bookmark items of common interest

Web 2.0 uses in Higher Education

- Content Sharing Systems
  - Podcasts can be used to provide introductory material before lectures, or, more commonly, to record lectures and allow students to listen to the lectures again, either because they were unable to attend, or to reinforce their learning by lecturers.
  - Vidcasts can be used to supply videos of experimental procedures in advance of lab sessions
  - Digital images can be shared across departments on campus
  - Faculty instructional and research materials can be made available for open distribution
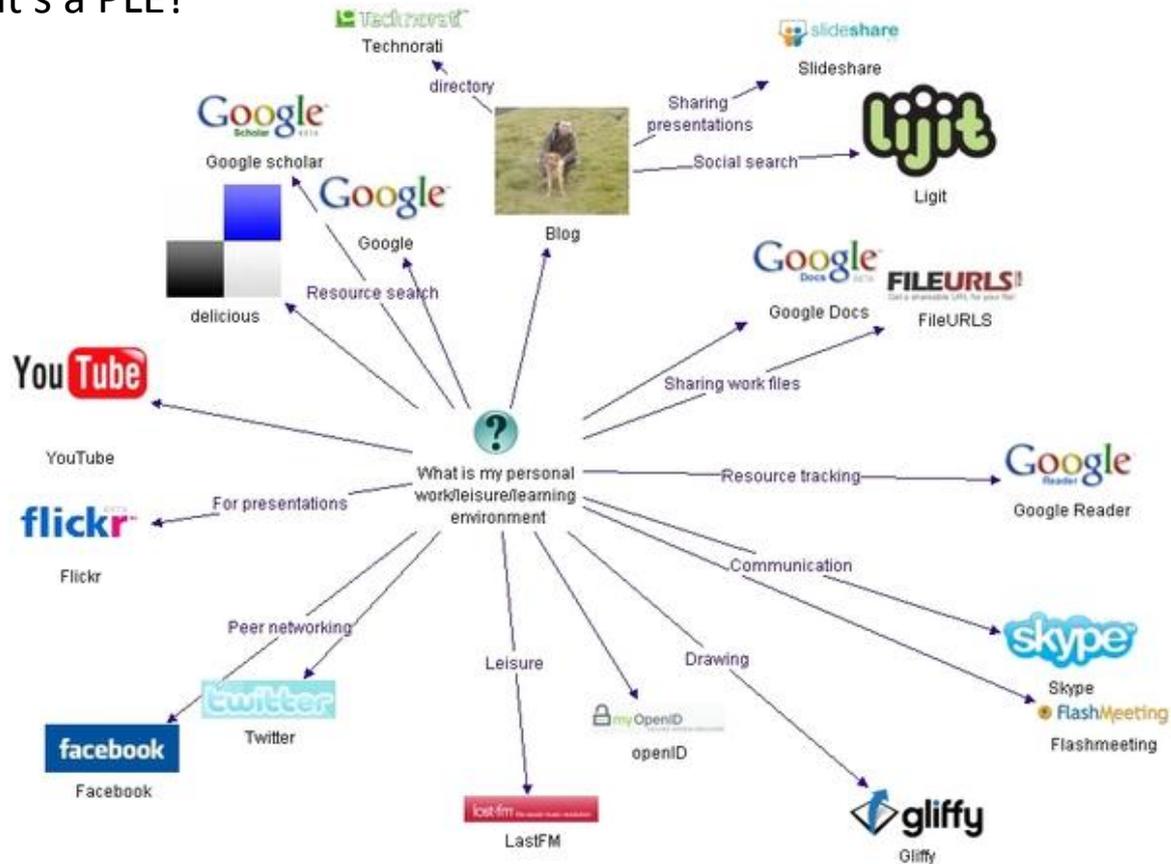
Web 2.0 uses in Higher Education

- Social Networks
  - Students generally want separation of their social and education networks
  - Some institutions have implemented their own social networks for students to engage each other
  - Learning Management Systems (ANGEL, Blackboard) are often used for campus groups
  - Some institutions utilize Facebook for student messaging, recruitment, alumni services, etc.

Web 2.0 uses in Higher Education

What's a PLE?

Web 2.0 uses in Higher Education

- What about Learning Management Systems (LMS)
  - An LMS is course and faculty centered, while Web 2.0 applications allow an individual to create a learner centered Personal Learning Environment (PLE)
  - Most LMS applications allow for the incorporation of Web 2.0 applications
  - Regardless, students will still need to deal with multiple logins

Web 2.0 – Policy Considerations

- Review your acceptable use policy – does it cover Web 2.0 uses?

- How do your Intellectual Property policies map to Web 2.0 uses?

- Students need to be informed of their rights under copyright law and the impact of making materials publicly available with Web 2.0 technologies

- Faculty cannot force students to make their work publicly available – those students must be given alternatives
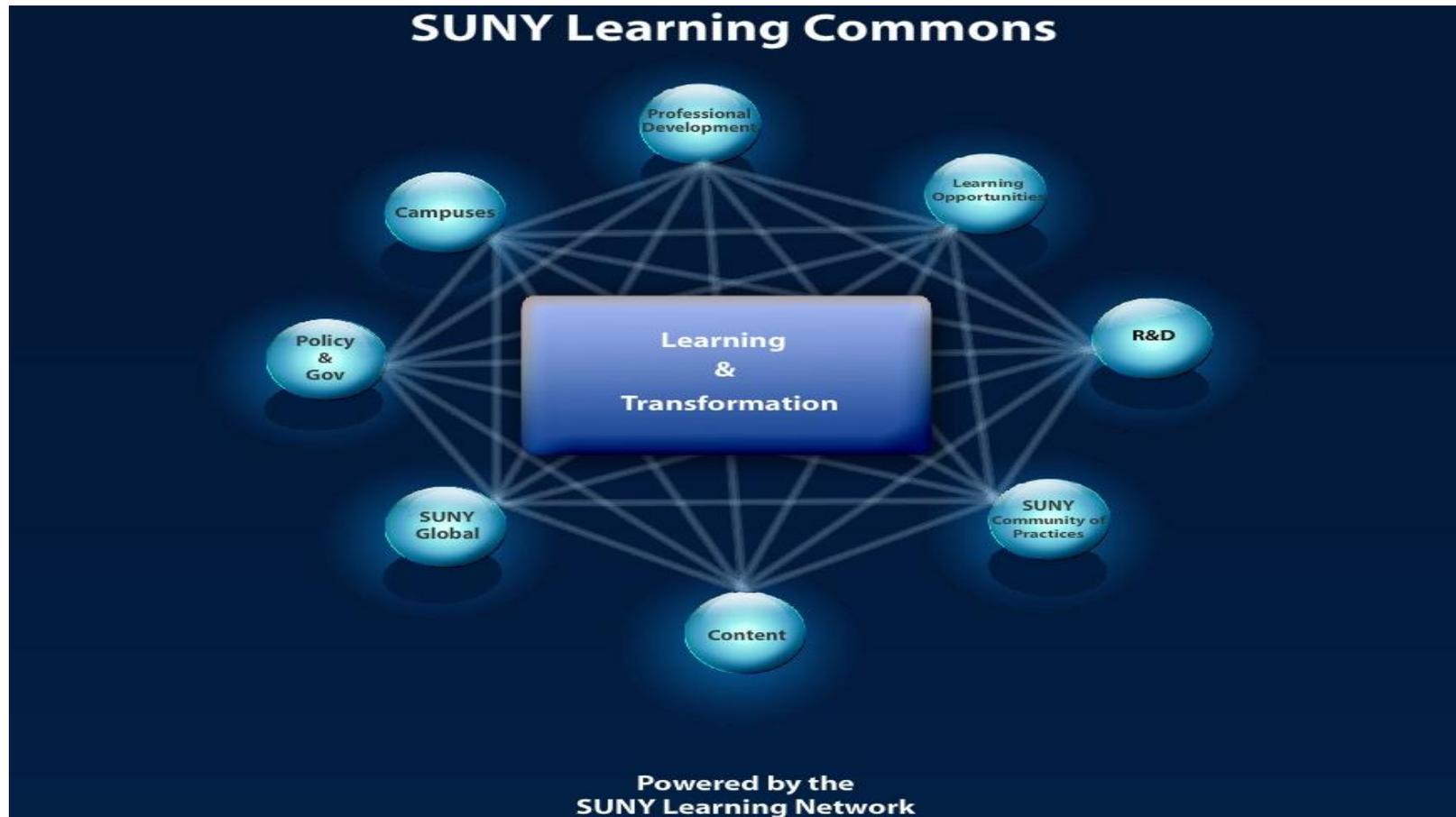
New Mobile Devices

- Ipads, Iphones, Droid phones and other mobile devices are changing the way students interact with web applications and content

- Applications are being created specifically for these devices, e.g. Blackboard has app that interfaces with their LMS that provides a completely different interface than the web

- Publishers are creating content specifically for these devices. There will be significant impact on the textbook market

- Price point for tablet devices are expected to be under $200 within two years

Revolution in Publishing

- Content is being disaggregated
- Open Educational Resources are widely available
- Movement towards licensing textbooks rather than purchase
- Platforms are available for students to interact with each other around digital textbook content
- Increasing competition for campus bookstores
  – Amazon
  – Publishers wishing to deal directly with Universities

SUNY Plans

- The Innovative Instruction Transformation Team is proposing:

SUNY Contracts

- SUNY has contracts with the for the following products
  - Itunes University
  - Google Apps
  - ANGEL
  - Blackboard LMS, Community, Content Management
  - Elluminate

Discussion/Q&A

- Would you be interested in professional development opportunities to learn more?
  - Professional Development?
  - Marketing?
  - To supplement instruction?
- Questions and Answers
- Next Steps

Take aways

- Twitter – people and entities to follow
    - GenerationSUNY
    - Chronicle
    - Johnmadea (RISD President)
- Blogs to read
    - http://www.changinghighereducation.com/