

## The Living Arts: The Future of Learning Online

Stephen Downes
National Research Council Canada
March 9, 2005







#### **Traditional Online Learning**



The concept of online learning usually revolves around a computer...



#### **The Future of Online Learning**



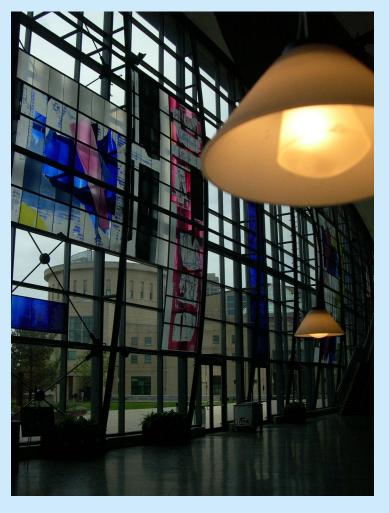
- May be in Mississauga
- Probably does involve computers at all





#### The School of The Future...





... is a living arts centre (or some such thing)



#### The Concept...

- Learning is centered around the interests of the learner (which may be arts, history, computing...)
- This learning is immersive learning by doing and takes place not in a school but in an appropriate environment (such as a living arts centre)
- The computer connects the student to the rest of the world, no matter where they are



#### **Game Based Learning**



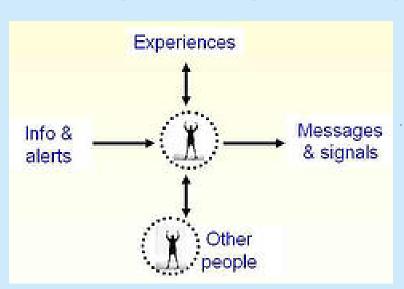


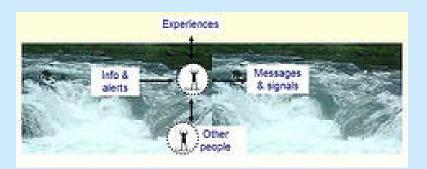
Types: Branching, Spreadsheet, Game, Lab...

http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1116274375



#### **Workflow (Informal) Learning**





Types: Community of Practice, Environment, Visualization...

http://metatime.blogspot.com/



#### **Online Learning at the Crossroads**

- On the one hand we have developed tools and systems intended to support traditional classroom based learning
- On the other hand we could (should?) be developing tools and systems to support immersive learning
- My take: we should be developing for dynamic, immersive, living systems...



### First Iteration: User-Produced Media

- Blogs and Blogging
- Podcasting and Vodcasting
- Game mods and other multimedia





#### Second Iteration: e-Portfolios

- The e-Portfolio lives in the intersection between the worlds for education, work, and home
- A model for e-Portfolio as a learner-managed construct
- Key requirement is easy-to-use tools and hosting services\*
- \*E.g. the "e-Portfolio-as-blog" approach

Scott Wilson: http://www.cetis.ac.uk/members/scott/entries/20050523083528



#### Second Iteration: e-Portfolios

- The e-Portfolio lives in the intersection between the worlds for education, work, and home
- A model for e-Portfolio as a learner-managed construct
- Key requirement is easy-to-use tools and hosting services\*
- \*E.g. the "e-Portfolio-as-blog" approach

Scott Wilson: http://www.cetis.ac.uk/members/scott/entries/20050523083528



#### **The Learning Network**

- The e-Portfolio lives in the intersection between the worlds for education, work, and home
- A model for e-Portfolio as a learner-managed construct
- Key requirement is easy-to-use tools and hosting services\*
- \*E.g. the "e-Portfolio-as-blog" approach

Scott Wilson: http://www.cetis.ac.uk/members/scott/entries/20050523083528

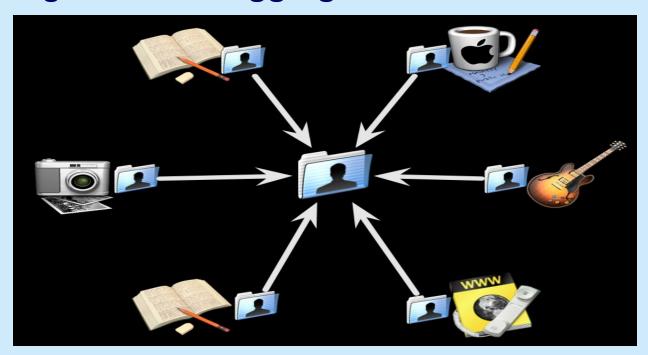


#### The Learning Network: Basic Concepts

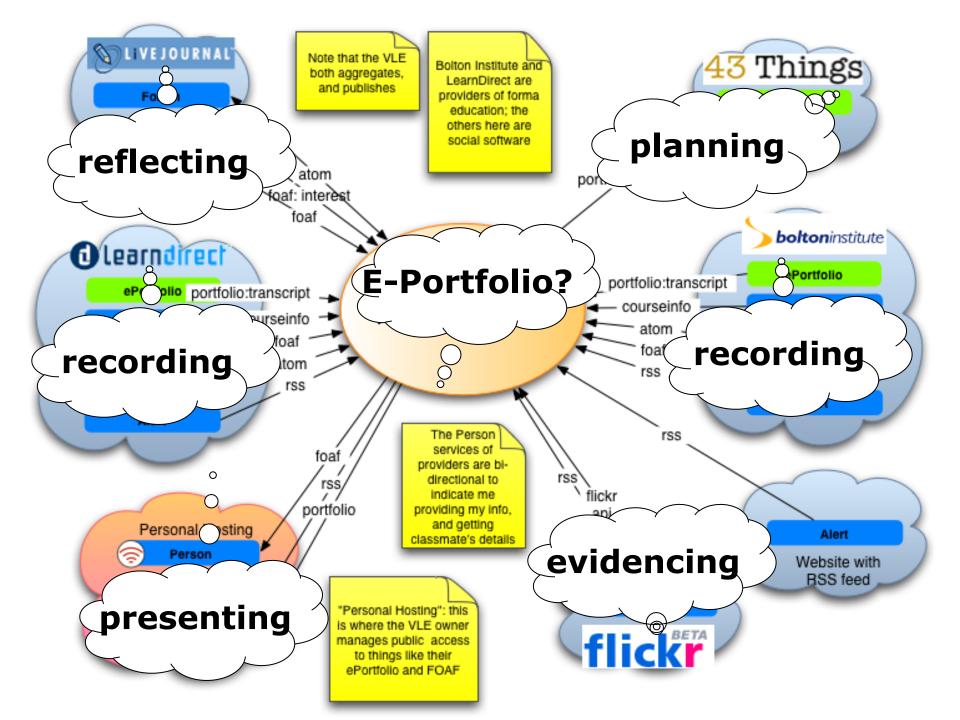
- Distribution Learning Online
- Disaggregation Learning Objects
- Decentralization Web Services
- Disintermediation Creating Conversations



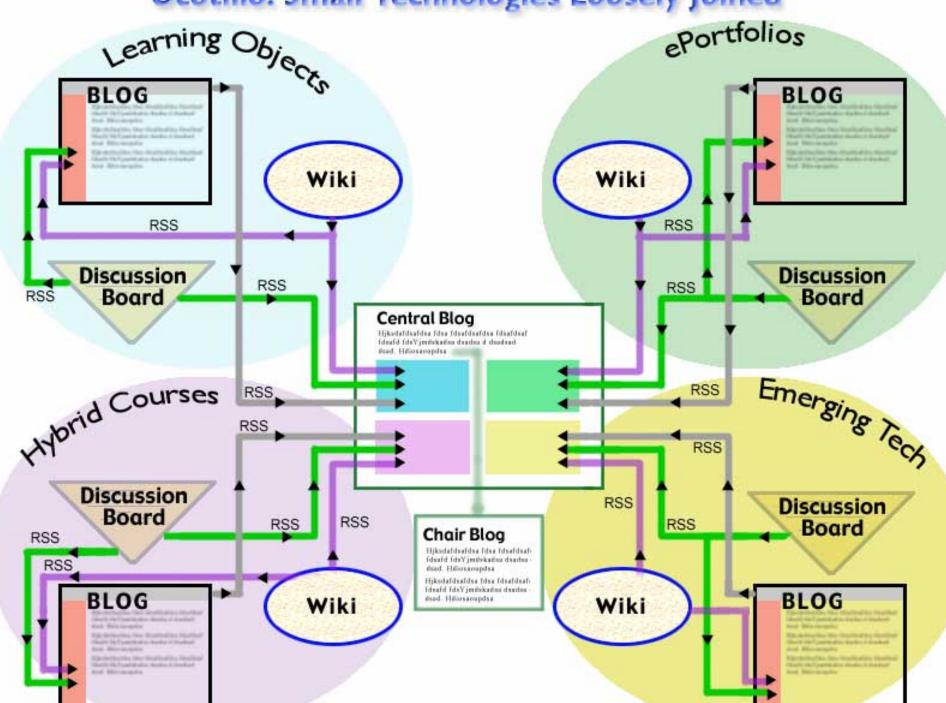
#### The Living Network - Aggregation

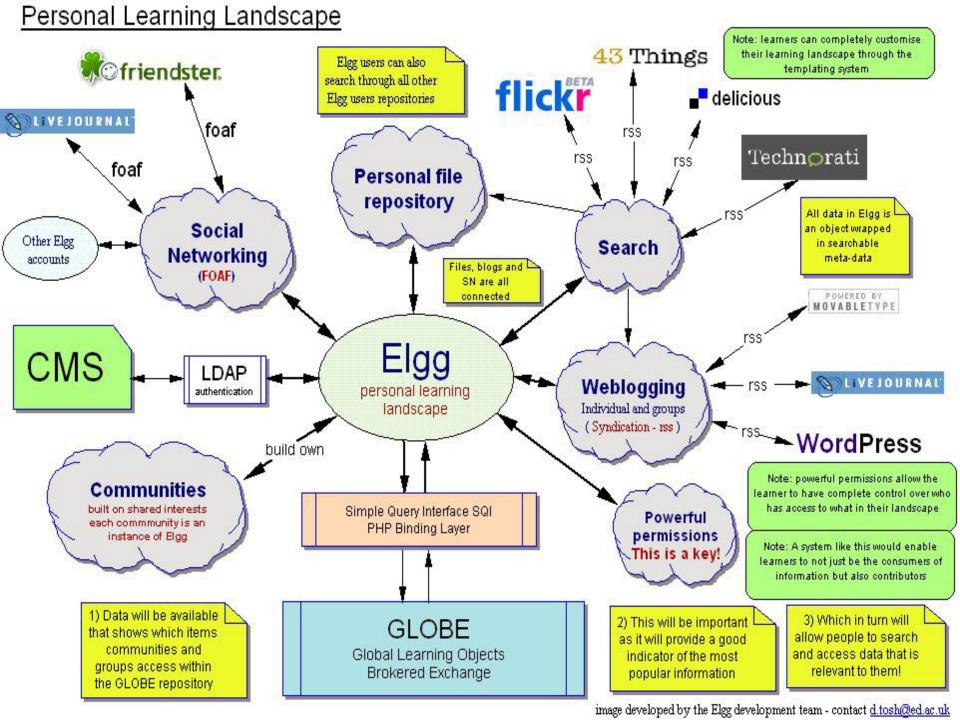


**Scott Wilson** 



#### Ocotillo: Small Technologies Loosely Joined





#### NRC CNRC

Institute for Information Technology



# Science --at work for\_\_\_ Canada



