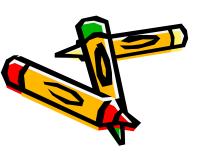
Tomorrow's Online Teachers

Stephen Downes National Research Council Canada June 11, 2003

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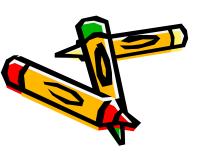
Tomorrow Through the Past

- In 1998 I wrote The Future of Online Learning <u>http://www.downes.ca/future/</u>
- These predictions are mostly on target, but we are only part way through the curve



Tomorrow's Technology Today

- Bandwidth broadband spreading
- Computing gigahertz processing 64 bit within two years
- Specialized appliances palms, cars
- OS stalled in the Windows paradigm



The New Ed Technology Is (Almost) Here

- Wireless here, needs deployment
- PADS? Tablets... same thing...
- Simulations (yes) and learning environments (no... but...)
- Multimedia Flash MX a huge leap
- Virtual Reality tomorrow, still



Yesterday's Big (New) Thing: Learning Objects

 I Predicted modularity – the idea of course selection being replaced by course construction

http://www.downes.ca/future/modularity.htm

 I also described how XML would be used to created module metadata, which would be used by intelligent search agents



Today's Big (Old) Thing: Learning Objects

- Much disillusionment:
 - The reusability paradox (Wiley) http://www.downes.ca/cgi-bin/website/find.cgi?string=author~David%20Wiley
 - The sterility of SCORM (Friesen) http://www.downes.ca/cgi-bin/website/find.cgi?string=author~Norm%20Friesen
- I argue: we (ahem, they) got the model wrong...



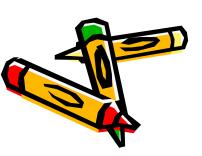
Learning Objects in a Wider Context

- Designers tried to build learning into the objects, but learning defined by how the objects are used <u>http://www.downes.ca/files/widercontext.ppt</u>
- Designers tried to string learning objects to create courses, but learning objects belong in a learning environment <u>http://www.downes.ca/cgi-</u> bin/website/view.cgi?dbs=Article&key=1037890664



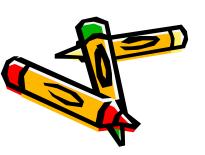
Learning Environments: Still Tomorrow

- Learning environments are on the horizon – simulations, blogs, wikis, workplace support
- But they require a change in perspective - from teaching to learning



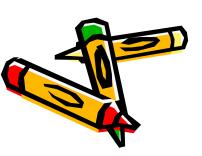
What Student Centered Learning Really Means

- There was much talk about student centered learning
- But people still want teachers (or computers) to make their decisions
- Tomorrow: students make decisions http://www.downes.ca/cgi-bin/website/view.cgi?dbs=Article&key=1012279256



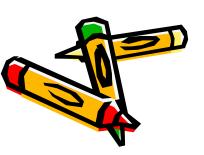
Online Learning: The Dream

- It's hard to imagine, but... http://www.flexiblelearning.net.au/nw2000/main/4-30debate2.htm
- Center learning around activities, not topics
- Base learning decisions on need (event driven), not authority (time or sequence driven)



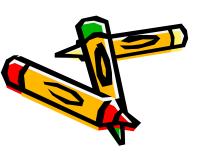
So Where Is The Teacher?

- Will the teacher be eliminated?
- No, but... teachers become, variously:
 - The subject matter expert
 - The mentor or coach
 - The conversation facilitator
 - The instructional designer



Toward Client Based Teaching

- Over time, teachers will specialize
- They won't have students, they will have clients
- Students access a network of teachers, resources, peers...
- (Teachers as learning objects?)



The End of The Great Schism

- Students will begin in simulated environments...
- But as they mature, this environment will become more real...
- Seamlessly transitioning into reality

