

Are You Ready for the Next Wave of Technology Integration?



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The 1st Wave of Tech Integration is Over!

What have we accomplished?

- *Hardware*
- *Software*
- *Infrastructure*
- *Connectivity*
- *Tech Departments*
- *Training*
- *Distance Learning*
- *Integration*
- *ITRTs*
- *Productivity Tools*
- *Computer Assisted Instruction*
- *Online Resources*
- *Assistive Tech*
- *Tech Standards*
- *Testing*
- *Automated Data*
- *Data archiving*

The 1st Wave of Tech Integration is Over!

What fell short of the mark?

- *Training*
- *Funding*
- *Time*
- *Admin/Teacher buy-in*
- *Teacher Overload*
- *Planning and Coordination*
- *Support Staff*
- *SOL Competition*
- *End of 5th/8TH Gr SOLs test*
- *Data*
- *Software*
- *Real world applications*
- *Not a natural extension*
- *Tech for tech's sake*
- *Equity/access across grades/content areas*
- *Keeping up with tech*
- *Keeping inventory current*

The 1st Wave of Tech Integration is Over!

What have we learned?

- *Student-centered instruction is best*
- *Teacher training must be increased*
- *Local support for technology is critical*
- *Buy in from teachers and staff a must*
- *Better return in investment*
- *Should not be keeping score of short-term results*
- *Longitudinal data must be accrued*
- *Multiple sources of data*
- *Incremental steps and measures*
- *3-5 Years minimum to show pay-off on technology*
- *The goal is life-long learning*

The 2nd Wave of Tech Integration has Begun!

What will we do differently?

- *Change the culture*
- *Bottom up model*
- *Just in time professional development*
- *Content-focused*
- *Student-centered*
- *Students as technology leaders/role models*
- *Promote Technology Planning/Collaboration*
- *Tie technology to curriculum standards*
- *Technology plan buy-in from all stakeholders*
- *Be a cheerleader for staff*
- *Improve communication/people skills*
- *Improve coordination among technology services*

The 2nd Wave of Tech Integration has Begun!

From literacy to fluency.....

- *Using technology skills incidentally within the context of daily tasks*
 - *Information Gathering*
 - *Information Literacy*
 - *Productivity*
 - *Problem Solving*
 - *Creative Synthesis*

Sebastian Foti



The Rise and Fall of Educational Technology:
Did We Miss the Point?



The 2nd Wave of Tech Integration has Begun!

From literacy to fluency.....

- *ETS*
- *Rand Corporation*
- *American Library Association*
- *Calvin College (Grand Rapids, Michigan)*
- *Milken Family Foundation*
- *Independence, Kansas Public Schools*
- *Bristol Community College (Fall River, Mass)*
- *University of Memphis*
- *University System of Maryland*
- *University of Texas*
- *University of Washington*

The 2nd Wave of Tech Integration has Begun!

From literacy to fluency.....

But how do we get there?

Thinking differently!

If we approach the 2nd wave

With the same old thinking

We will achieve the same results.

What a surprise!



Thinking Differently

The Power Of Design

Business Week

May 17, 2004

IDEO redefined good design by creating experiences, not just products. Now it's changing the way companies innovate



Thinking Differently

Kaiser nurses, doctors, and facilities managers teamed up with IDEO's social scientists, designers, architects, and engineers and observed patients as they made their way through their medical facilities. At times, they played the role of patient themselves.



Thinking Differently

Together they came up with some surprising insights. IDEO's architects revealed that patients and family often became annoyed well before seeing a doctor because checking in was a nightmare and waiting rooms were uncomfortable. They also showed that Kaiser's doctors and medical assistants sat too far apart.



Thinking Differently

People, especially the young, the old, and immigrants, visit doctors with a parent or friend, but that second person is often not allowed to stay with the patient, leaving the afflicted alienated and anxious.

Patients also hate examination rooms because they often wait alone for up to 20 minutes half-naked, with nothing to do.



Thinking Differently

Kaiser realized its long-range growth plan didn't require building expensive new facilities. It realized that seeking medical care is a social experience. So it needed to offer comfortable waiting rooms and a lobby with clear instructions on where to go; larger exam rooms with space for three or more people and curtains for privacy.



Thinking Differently

*How does IDEO do it?
Techniques such as*

- *bodystorming*
- *behavioral mapping*
- *quick and dirty prototyping*
- *deep dives*
- *unfocus groups*
- *shadowing*
- *be your customer*



Thinking Differently

IDEO sent AT&T Wireless managers in San Francisco to find a CD by a certain Latin singer, a Walgreen's that sold its own brand of ibuprofen, and a Pottery Barn catalog. It was too difficult to do with their mMode service; they used newspapers and phone books instead.



Thinking Differently

"Even teenagers didn't get it," says Duane Bray, of IDEO. As a result AT&T Wireless came up with a new mMode platform organized like a Web browser's favorites. A consumer can make up an individualized selection of sites, such as ESPN or Sony Pictures and ring tones. Nothing is more than two clicks away.



Thinking Differently

An mMode Guide on the page allows people to list five places - a restaurant, coffee shop, bank, bar, and retail store - that GPS location finders can identify in various cities around the U.S. Another feature spotlights the five nearest movie theaters that still have seats available within the next hour.



Thinking Differently

Stanford University has just committed to raising \$35 million so that IDEO can create a "D-school," a new design school that may one day match Stanford's famed B-school. Stanford professors in business, engineering, social sciences, and art will teach there.



Thinking Differently

What assumptions have we made about schools and technology?

What could we discover about our end-users and their experience?



Thinking Differently

*Do we make technology
a natural extension of
how children learn?*

*Do we make technology
a seamless extension of
how and what we teach?*



Thinking Differently

Do we get in the way of fluency?

What happens if we let go and allow technology to empower students?



Thinking Differently

Blogging

Will Richardson



<http://www.weblogg-ed.com/>
<http://educational.blogs.com/>
<http://surfaquarium.com/Blogs.pdf>
<http://www.technorati.com/>



Community of Practice

Etienne Wenger



<http://www.ewenger.com/>

<http://www.co-i-l.com/coil/knowledge-garden/cop/index.shtml>

<http://www.skype.com/>

<http://www.flickr.com/>



Thinking Differently

21st Century High Schools

Bob Pearlman



<http://www.bobpearlman.org/>



Information Literacy

Alan November



<http://novemberlearning.com/>
<http://www.fromnowon.org/>



Multimedia Technologies

Mitch Resnick



<http://www.media.mit.edu/>



Thinking Differently

Podcasting

David Warlick



<http://davidwarlick.com/connectlearning/>

<http://learninginhand.com/podcasting/>

<http://epnweb.org/>



Thinking Differently

Wikis



<http://blog.scienceofspectroscopy.info/>

<http://revolution.lexicall.org/wiki/tiki-index.php>

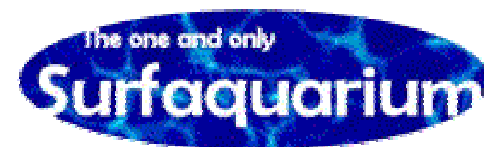
<http://collaboration.wikicities.com/wiki/Wikiversity>



<http://surfaquarium.com/CoP/>



<http://surfaquarium.com/Projects/>



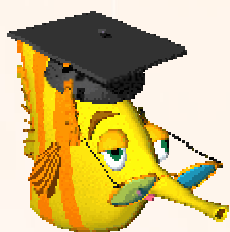
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