LEVERAGING INNOVATION AND TECHNOLOGY IN TURNAROUND EFFORTS

Janet S. Twyman, Center on Innovations in Learning
Greg Alexander, Idaho SEA
What is Technology?

Science

seek to improve

the use or application of scientific knowledge to solve specific problems

Technology

makes life easier

Society (and Schools)

demands more

expresses need

informs

relies on
What is Technology?

Digital, Internet-enabled
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The Use of Technology to...

- personalize learning and improve **instruction**
- increase **motivation**
- improve **access**
- track, measure, analyze, communicate, and respond to information and **data**
- improve **professional development**
- streamline **systems and processes**
- understand learning and performance **analytics**
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The Use of Technology...

“What do I want to achieve, how may using this technology help, and under what conditions will it have the most benefit to students?”
Personalization refers to instruction that is calibrated to learning needs, sensitive to learning preferences, and individualized to the specific interests of different learners. In an environment that is fully personalized, the learning objectives and content, as well as the method and pace may each vary.

[The U. S. Department of Education (2010, p. 12)]
personalizing learning and improving instruction

Through the Student’s Eyes
A Perspective on Personalized Learning and Practice Guide for Teachers

Sam Redding
Center on Innovations in Learning
www.centeril.org
2013

The most important observation you can make is when you become a glimmer in the child’s eyes and he becomes a glimmer in yours.
— Albert Triechman, quoted in Brendtro, Biskens, and Van Bockern (2012)

www.centeril.org/publications/2013_09_Through_the_Eyes.pdf

Using Technology to Personalize Learning and Assess Students in Real-Time

Darrell M. West

www.brookings.edu/research/papers/2011/10/06-personalize-learning-west
personalizing learning and improving instruction

SEA Support of Personalized Learning via Technology

• identify content and instructional providers that align with the broader state curriculum and data systems

• tie curriculum purchases and recommendations to demonstrated learner outcomes

• participate in or have linkages to within-state or across state think tanks and incubators
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❤️ increasing motivation
What starts out as a game which requires the player to isolate the box on one of the two “sides,” quickly progresses into students solving for ‘x’ on two sides of an equation. By the time the player realizes that they are doing math, they are in too deep and will be eager to solve the next level.

Kyle Pearce, Secondary Math Teacher, Greater Essex County
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improving access
ONLINE EDUCATION

I:1 Initiatives  BYOD  Blended Learning  Flipped Classroom

improving access

www.illinicloud.org

• 2013-horizon-report-k12.pdf
• http://www.k12blueprint.com/sites/default/files/Getting-Started-with-BYOD_0.pdf
• http://www.innosightinstitute.org/innosight/wp-content/uploads/2012/05/Classifying-K-12-blended-learning2.pdf
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tracking, measuring, analyzing, communicating, and responding to information and data
tracking, measuring, analyzing, communicating, and responding to information and data

Common Education Data Standards (CEDS)
https://ceds.ed.gov
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improving professional development
improving professional development

• recruit and retain good “tech savvy” educators
• develop state-wide technology mentoring
• re-evaluate credentialing requirements
• partner with IHE to include tech-based teacher prep
improving professional development

Professional Learning Communities
Online Courses
Webinars
Self-Paced Modules
Virtual Conferences

http://connectededucators.org/report/

edmodo
www.edmodo.com
http://connectededucators.org

Intel® Teach Elements
http://www.intel.com

ModernLessons
http://www.modernlesson.com

ASCD
https://sites.google.com/site/virtual-conference/stem-education-2013/
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streamlining systems and processes
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understanding learning and performance analytics
Ryan Baker: Learning, Schooling & Data Analytics in the Center on Innovations in Learning's Handbook on Innovations in Learning

REFERENCES  (From: Twyman, J. Leveraging Technology to Accelerate School Turnaround)


