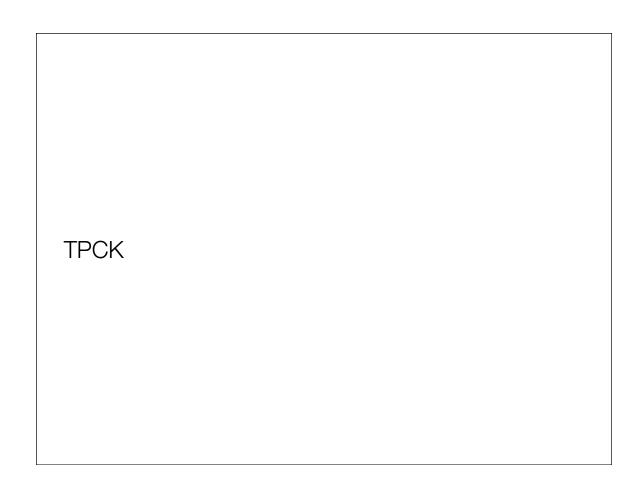
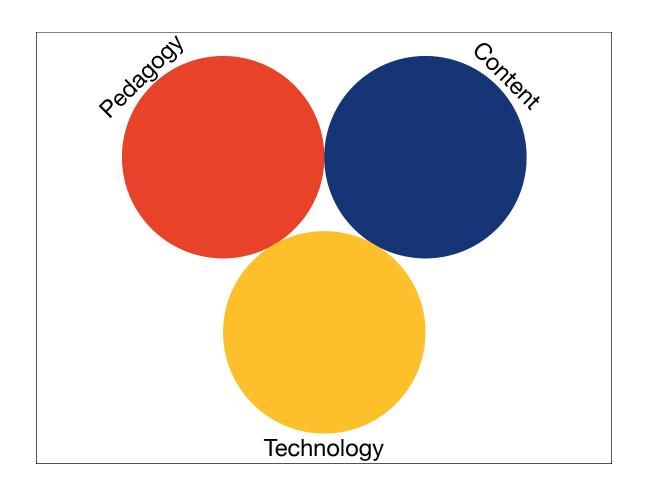
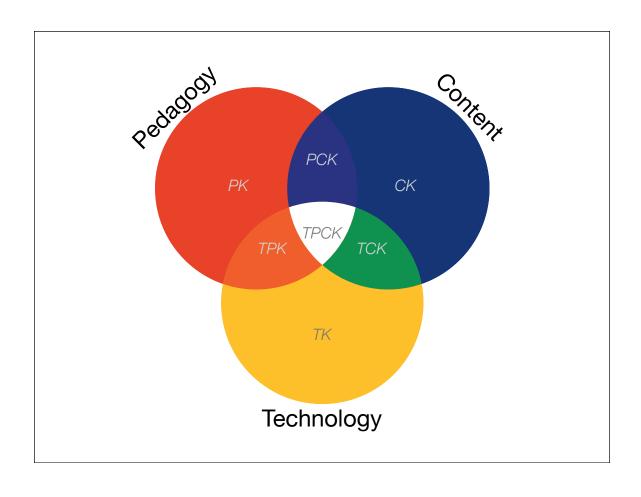
A Toolkit for Decision Making and Design: TPCK + SAMR

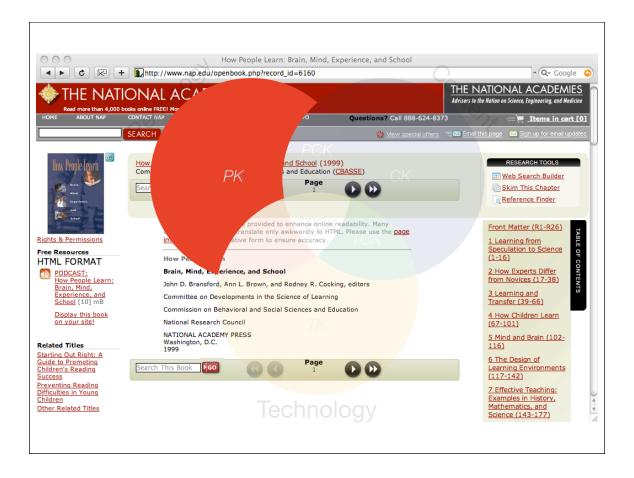
Ruben R. Puentedura, Ph.D.

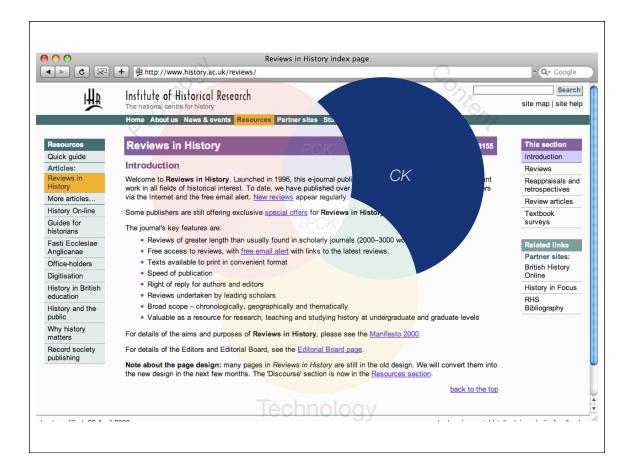


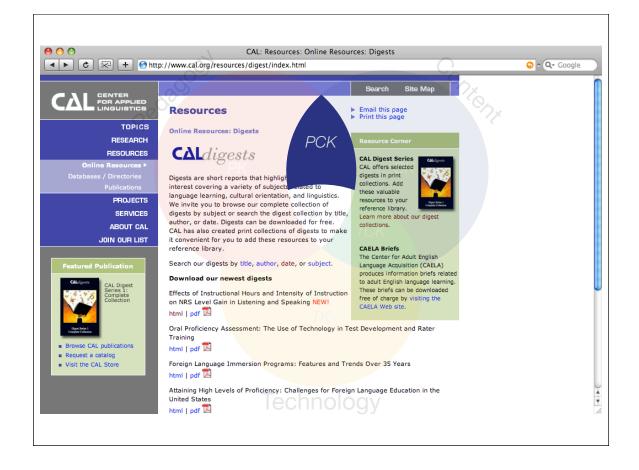


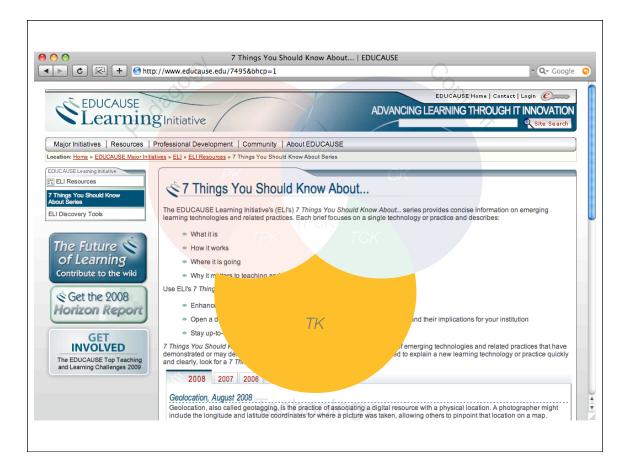


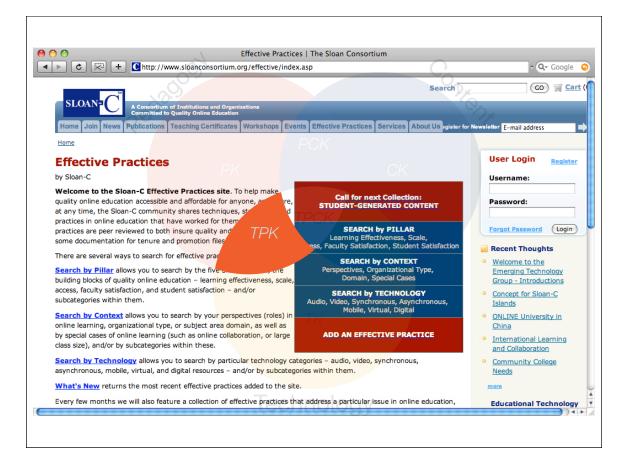


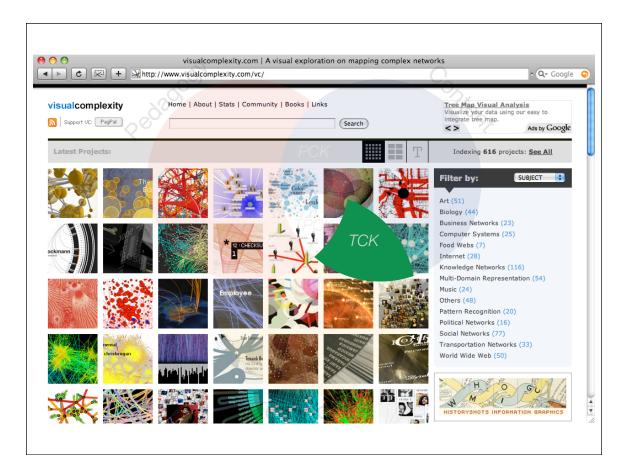


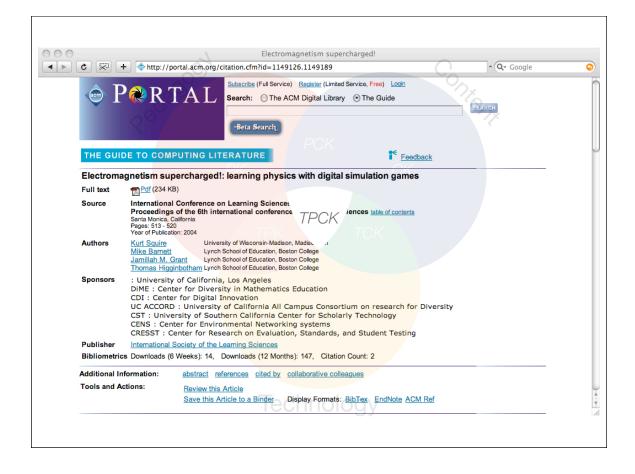


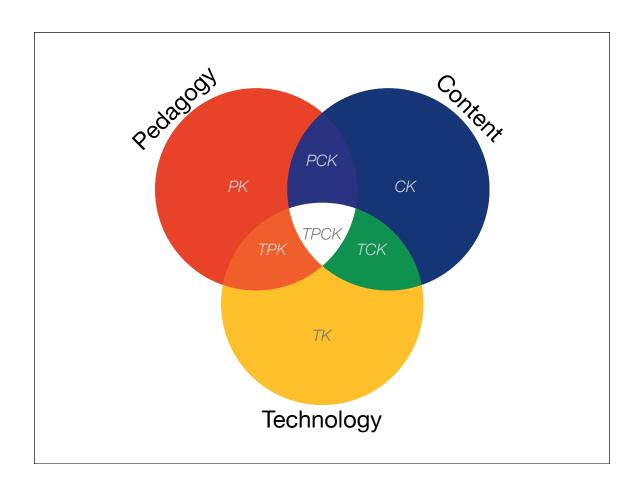












SAMR

Tech allows for the creation of new tasks, previously inconceivable

Modification

Transformation

Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

Tech acts as a direct tool substitute, with no functional change

Redefinition

Tech allows for the creation of new tasks, previously inconceivable

Modification

Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

Tech acts as a direct tool substitute, with no functional change

Enhancement

Tech allows for the creation of new tasks, previously inconceivable

Modification

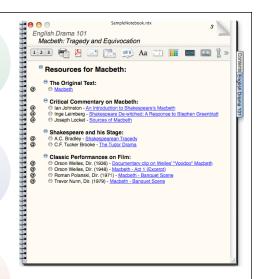
Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

Tech acts as a direct tool substitute, with no functional change





Redefinition

Tech allows for the creation of new tasks, previously inconceivable

Modification

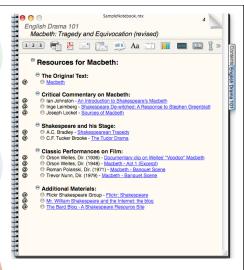
Tech allows for significant task redesign

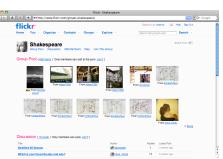
Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

Tech acts as a direct tool substitute, with no functional change





Tech allows for the creation of new tasks, previously inconceivable

Modification

Tech allows for significant task redesign



Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

Tech acts as a direct tool substitute, with no functional change



Redefinition

Tech allows for the creation of new tasks, previously inconceivable

Modification

Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution

Tech acts as a direct tool substitute, with no functional change





Tech allows for the creation of new tasks, previously inconceivable

Modification

Tech allows for significant task redesign

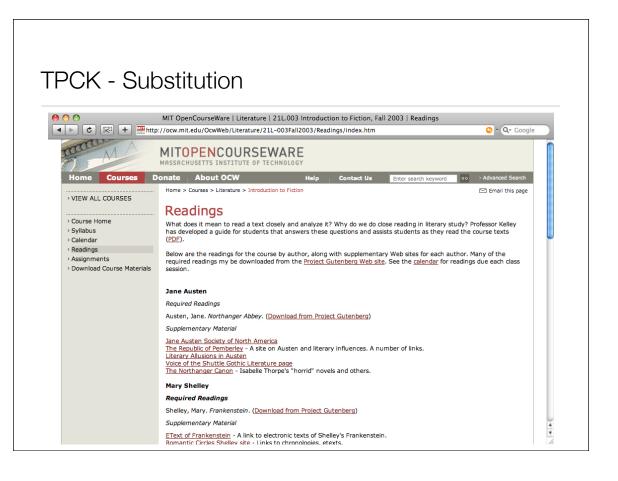
Augmentation

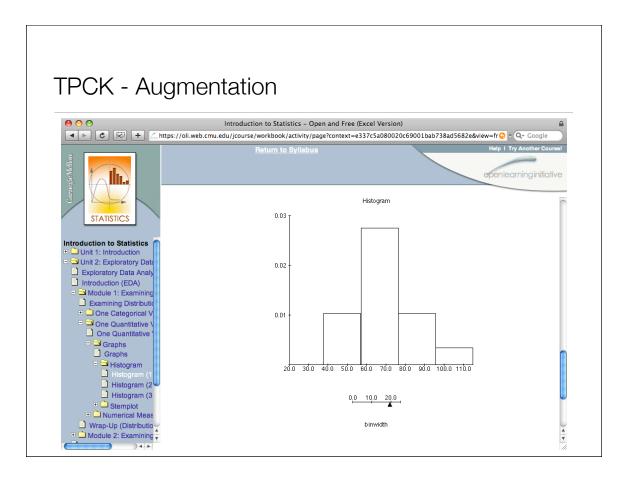
Tech acts as a direct tool substitute, with functional improvement

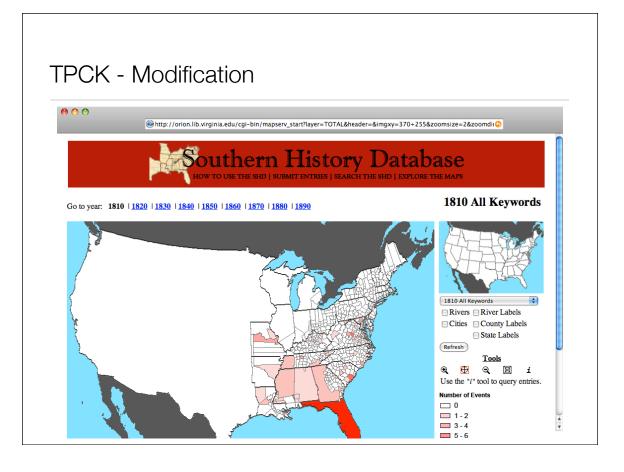
Substitution

Tech acts as a direct tool substitute, with no functional change

Combining TPCK with SAMR









Some Guiding Questions

Guiding Questions - TK

- Are the technology tools being used suitable for working on all levels of the SAMR model, or are they constrained in this regard?
- Is the use being made of the technology at the S/A, or M/R levels of the model?
- Are the technology tools well-suited to the task at hand, or are there other choices that would either fit the task better, or allow for greater flexibility in exploring all levels of the SAMR model?

Guiding Questions - TPCK

- Is the activity as described essentially analogous to a traditional learning activity (S/A), or does it present substantial transformations from it (M/R)?
- Is the activity essentially limited to itself in potential scope, or does it open paths for other future activities to build upon it?
- How could the activity accommodate modification or addition (including tool choice and use) in order to take the overall result to the next SAMR level?

Resources Cited

• The TPCK Model:

- TPCK Technological Pedagogical Content Knowledge http://www.tpck.org/tpck/index.php?title=Main_Page
- AACTE (Eds.) The Handbook of Technological Pedagogical Content Knowledge for Educators. New York:Routledge, 2008.

• The SAMR Model:

 Ruben R. Puentedura. Transformation, Technology, and Education. (2006) Online at: http://hippasus.com/resources/tte/

• PK Example:

• John D. Bransford, Ann L. Brown, and Rodney R. Cocking (Eds.) How People Learn: Brain, Mind, Experience, and School. (1999) Online at:

http://www.nap.edu/openbook.php?record_id=6160

• CK Example:

• Institute of Historical Research - Reviews in History http://www.history.ac.uk/reviews/

• PCK Example:

Center for Applied Linguistics - CALdigests
 http://www.cal.org/resources/digest/index.html

• TK Example:

• EDUCAUSE Learning Initiative - 7 Things You Should Know About...

http://www.educause.edu/7495&bhcp=1

• TPK Example:

The Sloan Consortium - Effective Practices
 http://www.sloanconsortium.org/effective/index.asp

• TCK Example:

VisualComplexity
 http://www.visualcomplexity.com/vc/

• TPCK Example:

• Kurt Squire, Mike Barnett, Jamillah M. Grant, and Thomas Higginbotham. *Electromagnetism supercharged!: learning physics with digital simulation games*. (2004) Online at: http://portal.acm.org/citation.cfm?id=1149126.1149189

SAMR Examples:

- The Tragedy of Macbeth (text hosted at MIT) http://shakespeare.mit.edu/macbeth/index.html
- Flickr Shakespeare Group
 http://www.flickr.com/groups/shakespeare/
- Many Eyes
 http://services.alphaworks.ibm.com/manyeyes/home
- UpStage http://upstage.org.nz/blog/?page_id=2
- Macbeth in Second Life http://www.youtube.com/watch?v=ciclpd1Xp3A

• TPCK+SAMR Examples:

 Prof. Wyn Kelley: MIT OpenCourseWare - 21L.003 Introduction to Fiction

http://ocw.mit.edu/OcwWeb/Literature/21L-003Fall2003/CourseHome/index.htm

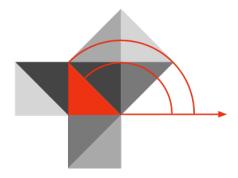
 Prof. Oded Meyer: Carnegie Mellon Open Learning Initiative -Introduction to Statistics

https://oli.web.cmu.edu/jcourse/webui/guest/look.do?section=stats-excel

- Prof. Edward L. Ayers: Virginia Center for Digital History at the University of Virginia - The Rise and Fall of the Slave South http://www.vcdh.virginia.edu/HIUS323/
- Prof. Jon Beasley-Murray: University of British Columbia -Murder, Madness, and Mayhem: Latin American Literature in Translation

http://en.wikipedia.org/wiki/ Wikipedia:WikiProject_Murder_Madness_and_Mayhem

Hippasus



http://hippasus.com rubenrp@hippasus.com

This work is licensed under a Creative Commons Attribution-Noncommercial-Share Alike 3.0 License.

