## Pathways 11 Adelaide 2012

21st Century learners with diverse needs - Making learning accessible with the iPad





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# INCLUSIVE LEARNING TECHNOLOGIES 2014

20-23 May 2014
Gold Coast | Queensland | Australia spectronics.com.au/conference

Join the Spectronics team for four full-on days of immersion in the world of technologies to support diverse learners!

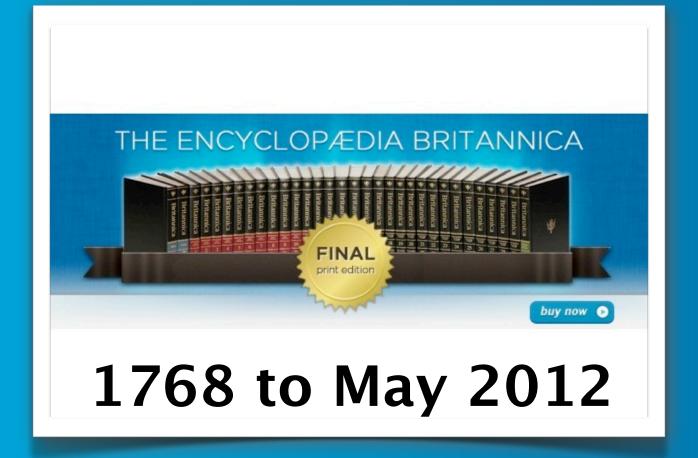




www.spectronics.com.au/online

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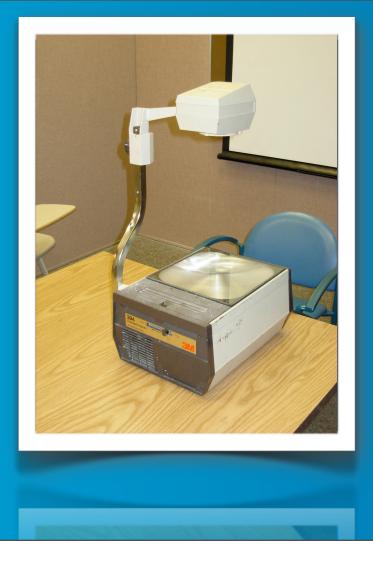








Tuesday, 11 December 12







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### Horizon Report 2012



Time-to-Adoption Horizon: One Year or Less

Mobiles and Apps Tablet Computing

Time-to-Adoption Horizon: Two to Three Years

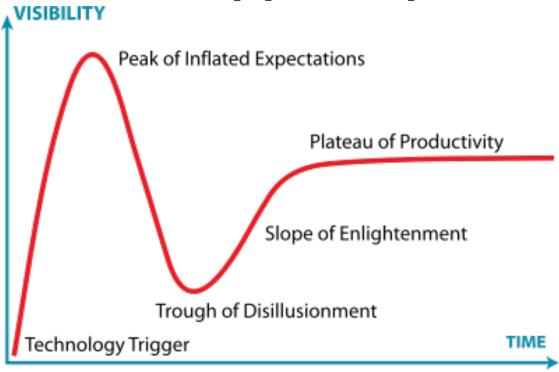
Game-Based Learning Learning Analytics

Time-to-Adoption Horizon: Four to Five Years

Gesture-Based Computing Internet of Things

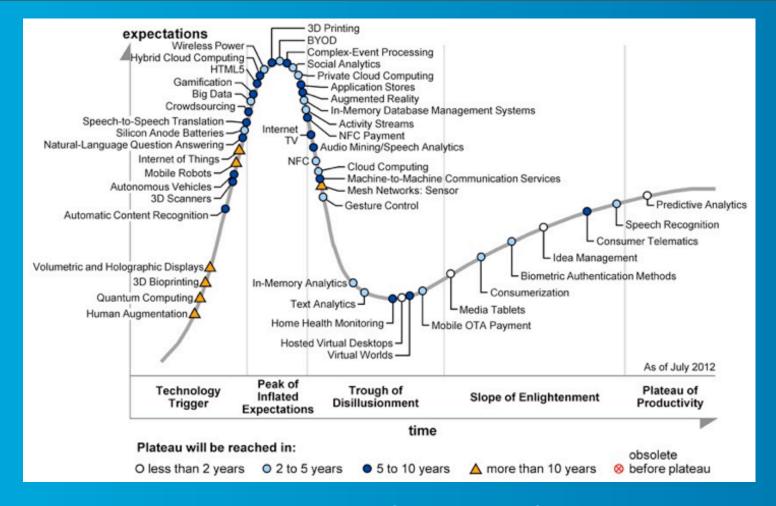
http://www.nmc.org/publications/horizon-report-2012-higher-ed-edition

## Hype Cycle



http://en.wikipedia.org/wiki/Hype\_cycle







## **Project Tomorrow**



Students adopting & adapting



Owning a mobile device



Looking outside the classroom







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Yesterday's literate student

Today's literate student

Tomorrow's literate student

Work in a

Write a letter —— Write a email —— virtual community

Adapted from Marc Prensky <a href="http://www.marcprensky.com">http://www.marcprensky.com</a>



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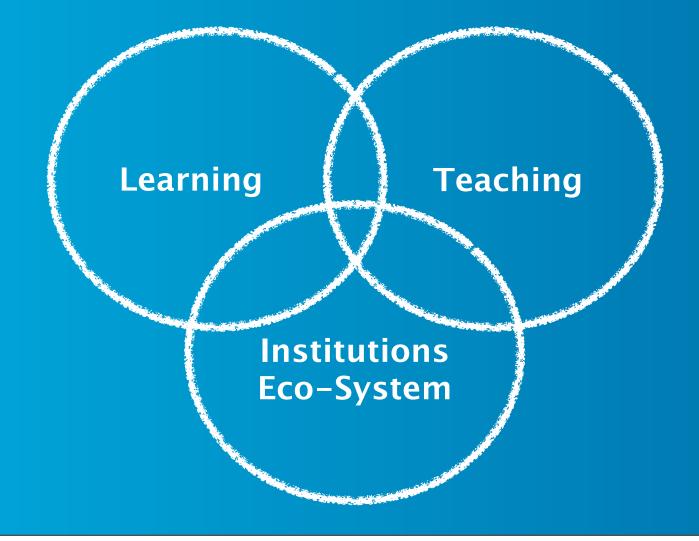


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...inhabiting a world with tools so well fitted to us that when they are with us they become transparent...

Marc Prensky 2012 Brain Gain: Technology and the Quest for Digital Wisdom







## assistive technology

inclusive technology



# The transparency of mobile technology







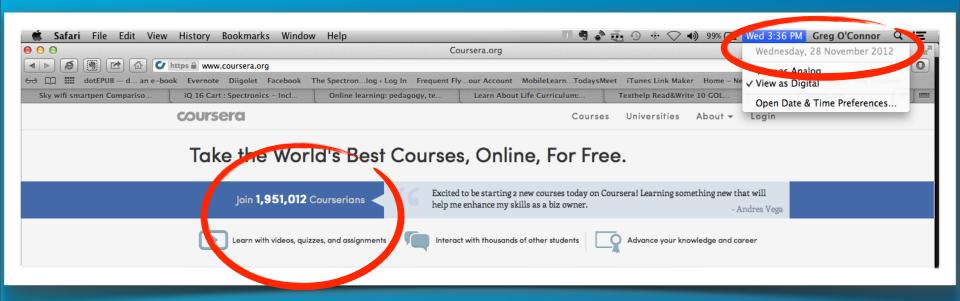


It Can't Teach



# MOOCs Massive Open Online Courses





www.coursera.org





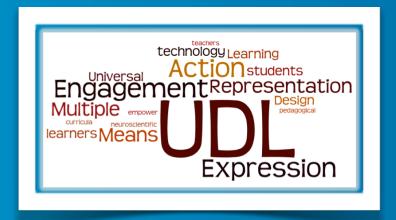


How do we ensure the transparency of the technology in our programs & a not one size fits all paradigm?



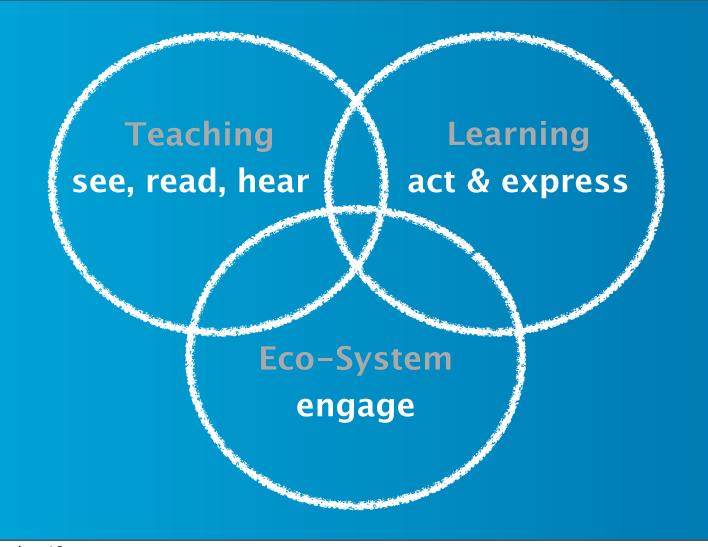
Multiple Means of

- **Representation**
- Action and Expression
- **Engagement**



www.cast.org







## apps for literacy support list:

www.spectronics.com.au/blog





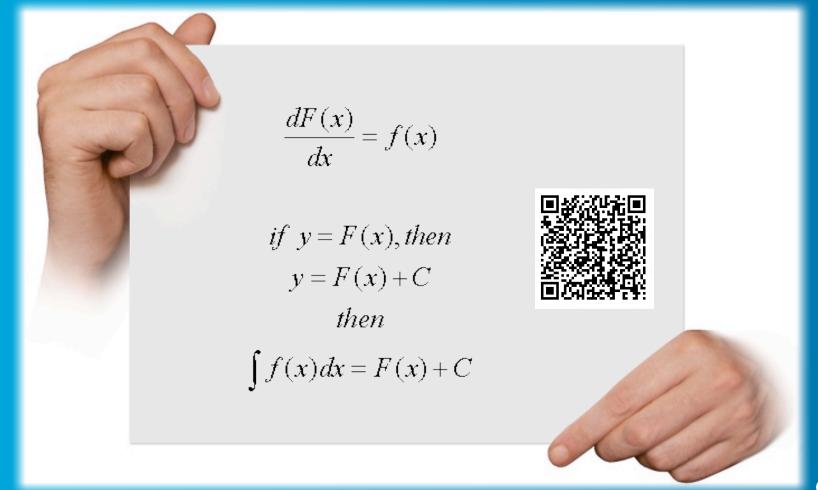
Multiple Means of Representation

Student – How we gather facts and categorize what we see, hear, and read.

Teacher – Present information and content in different ways









Multiple Means of Representation Apps:

vBookz PDF **App Writer** Prizmo Write & Say Khan Academy **Explain Everything** QRafter





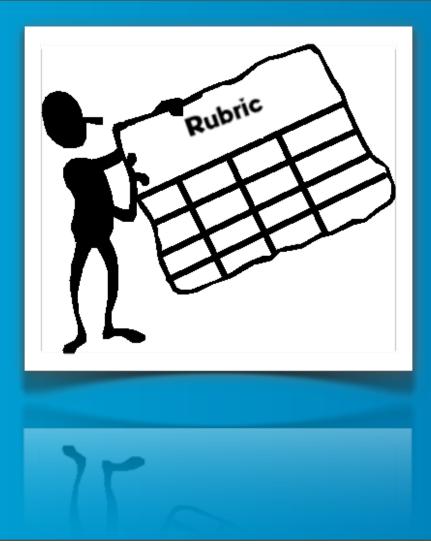
Multiple Means of Action and Expression

Student – Planning and performing tasks. How we organize and express our ideas.

Teacher - Differentiate the ways that students can express what they know









APP Name	Curriculum focus	
Cost	Wifi capable	

DOMAIN	4	3	
Curriculum Connection	Skill(s) reinforced are strongly connected to the targeted skill or concept	Skill(s) reinforced are related to the targeted skill or concept	Skill four or co
Authenticity	Targeted skills are practiced in an authentic format/ problem-based learning environment	Some aspects of the app are presented in an authentic learning environment	Skill gam
Feedback	Feedback is specific and results in improved student performance	Feedback is specific and results in improved student performance (may include tutorial aids)	Feed of st stud
Differentiation	App offers complete flexibility to alter settings to meet student needs	App offers more than one degree of flexibility to adjust settings to meet	App setti



Multiple Means of Action and Expression Apps:

WritePad
TypO HD
SoundNote
Audiolio
DropVox



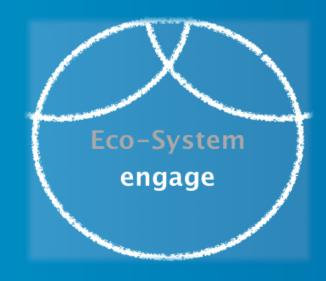




Multiple Means of Engagement

Student – How we get engaged and stay motivated. How we are challenged, excited, or interested.

Teacher – Stimulate interest and motivation for learning





How do we ensure the technology is being used to enable, engage and empower all students?



more than accessibility.... our focus needs to be on meaningful engagement



## SAMR Model

4-level approach to selecting, using, and evaluating technology in education

(Ruben Puentedura)



**Modification** 

**Augmentation** 

Substitution

Technology allows for the creation of new tasks, previously inconceivable

Technology allows for significant task redesign

Technology acts as direct tool substitute, with functional improvement



Technology allows for the creation of new tasks, previously inconceivable

**Modification** 

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## implications





# possibilities





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