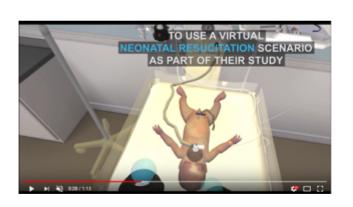
Choosing a Technology that Makes a Difference to Learning – Getting Past the Hype



Dr. Tony Bates

Research Associate
Contact North

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6.2.1 ORAL COMMUNICATION

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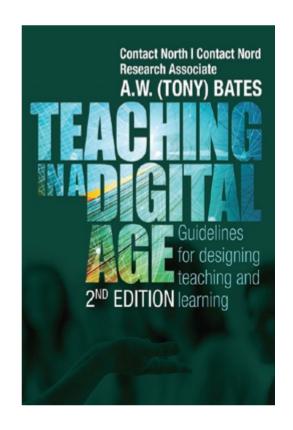
Webinar Format

Aim of series:

- Discuss issues raised in Teaching in a Digital Age
- Draw on your experiences in addressing these and related issues

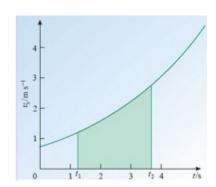
This webinar:

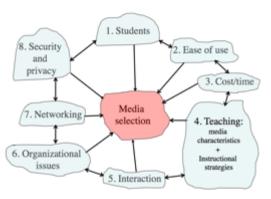
 Choosing appropriate technology (Chapters 7, 8 and 9)



Topics to Discuss

- The difference between media and technology
- Types of media
- Pedagogical differences between media
- SECTIONS: a decision model
- General questions on the use of media in education





Technology or Media?

Technology = tools/things without messages:

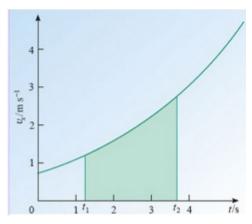
Printing press; TV studio; computers; networks;

Media = systems for the **intermediation** or **interpretations** of meaning/reality

Books; TV programs; lectures; seminars; online courses; MOOCs

4 core components: creator – message – technology – interpreter







Different Media

Text: books, newspapers, journals;

Graphics: tables, pictures, cartoons

Audio: radio programs; music cassettes

Video: TV shows; movies; YouTube;

documentaries; talking heads; demos

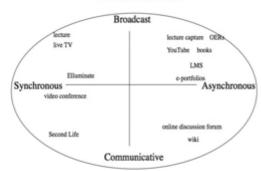
Computing: adaptive learning; AI;

animation; simulation; virtual reality

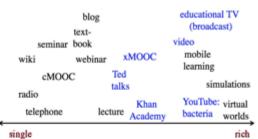
Social media: Twitter; Facebook;

Internet: encompasses all media

The Internet



The continuum of media richness





Questions and Comments

- How useful (for teaching) is the distinction between technology and media?
- Is face-to-face teaching a medium of communication?
- How useful (for teaching) is it to categorize the different media in this way?
- Other questions and comments



Pedagogical Differences Between Media

- No significant differences between media?
- Depends very much on design
- Potential or uniqueness
- Concrete ----- abstract
- Learners can now create rich media easily: to demonstrate learning (assessment?)





Affordances of Media?

(content + skills)

Text: abstract ideas;

Graphics: role models;

Audio: language learning;

Video: dynamic change; ...

Computing: objective assessment; ...

Social media: collaboration;...

Face-to face: ????

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Analysis by Pedagogy

Objectivist		Constructivist		Connectivist	
Tests	Artificial intelligence	Essays	E-portfolios	FaceBook	
Books	Simulations		Google	YouTube	
	LMSs (e.a.Moodle)	Discussion forums	Serious games Flikr		
Lectures		Seminars	Wikis		
	Webinars		Virtual rea	lity Blogs	
Credit			Second Life Non-credit		

Teacher control Learner control



Questions and Comments

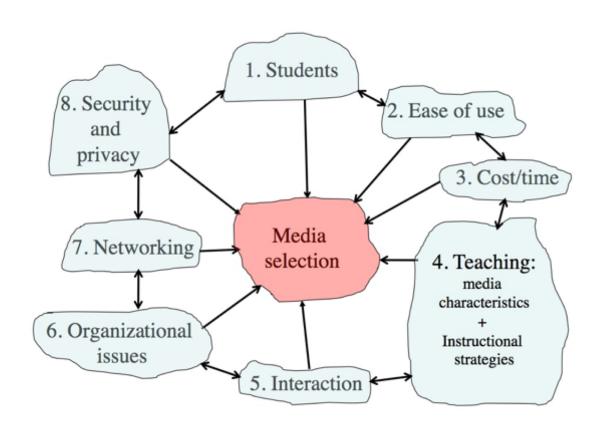
- Are their actually any real pedagogical differences between media? Scientific basis?
- What determines the pedagogical power of a medium? For instance what makes text powerful or weak in teaching?
- Is it valid to relate different media to different teaching methods?

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	Webinars		Virtual real	lity Blogs	
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Teacher control Learner control

Media Selection: The SECTIONS Model

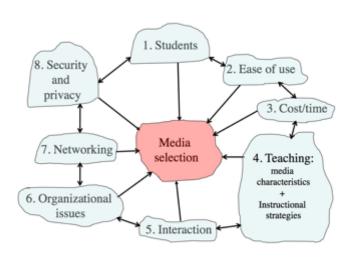




Media Selection: The SECTIONS Model

Intuitive, based on thinking about all these factors: art more than science

Start with 'gut' feeling then check against the SECTIONS criteria
Embed SECTIONS model within an overall design approach (e.g. ADDIE or agile).



The SAMR Model (Reuben Puentedura)

Redefinition

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

Enhancement



Questions and Comments

- Other models/ways of selecting media? Does it really matter to have a 'model' or theory?
- ZOOM lectures or ADDIE-based LMS courses: which is best for online learners? Does the 'Bates' approach help in making such decisions?
- Difference between SAMR and SECTIONS?
- Other questions/comments



General Discussion: Questions/Comments

