

**Models for Motivating and Retaining Online Learners (TEC-VARIETY AND R2D2)** 

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### **Learning is More Shared**

**Blogging Field Archeology Research** (e.g., Lily Henry Roberts, UCLA digging in Hope, BC, Stó:lō First Nation people from 12,000 years ago)





#### **Learning is More Video-Based Online Learning Polyglots**





Timothy posts videos of himself speaking several languages on YouTube.

### **Learning is More Ubiquitous**

Learn Anytime, Always On/Mobile

"Everything I need to do today, I can do on my phone," says Robert Inson (Louisville, KY)...He often grades papers and communicates with students from a cafe near his home.





### **Learning is More Immediate**

Live Science (Nautilus Live allows people to watch expeditions live & listen to scientists in control rooms a discoveries made)









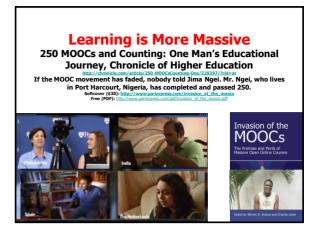
### **Learning is More Self-Directed**

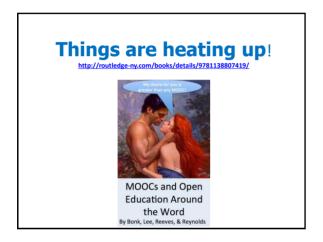
iPod Learning from MIT OCW (e.g., Wendy Ermold, University of Washington)

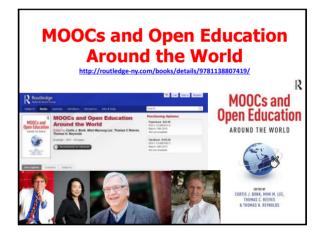


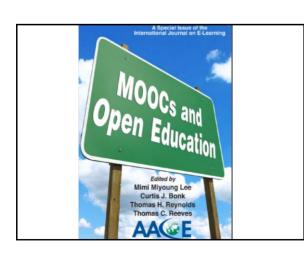






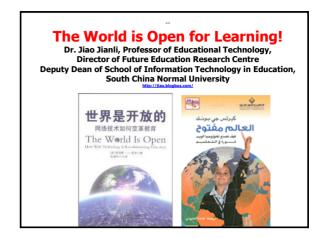






# Framework: WE-ALL-LEARN: Ten Forces that Opened the Learning World Web Searching in the World of e-Books (i.e., Darwin) E-Learning and Blended Learning Availability of Open Source and Free Software (e.g., Moodle) Leveraged Resources and OpenCourseWare (e.g., MIT) Learning Object Repositories and Portals (i.e., shared content) Learner Participation in Open Info Communities (YouTube) Electronic Collaboration and Interaction (sync and async) Alternate Reality Learning (Online Massive Gaing, Simulations, and Virtual Worlds; e.g., Second Life) Real-Time Mobility and Portability (e.g., iPhone) Networks of Personalized Learning (Blogs, RSS)





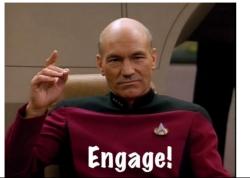








### That's right, Engage!



Poll #1: Million Dollar Question:
What words come to mind when I say that I want to motivate learners?

### **Motivation Research Highlights**

(Jere Brophy, Michigan State University)

- 1. Supportive, appropriate challenge, meaningful, moderation/optimal.
- 2. Teach goal setting and self-reinforcement.
- 3. Offer rewards for good/improved performance.
- 4. Novelty, variety, choice, adaptable to interests.
- 5. Game-like, fun, fantasy, curiosity, suspense, active.
- 6. Higher levels, divergence, dissonance, peer interaction.
- 7. Allow to create finished products.
- 8. Provide immediate feedback, advance organizers.
- 9. Show intensity, enthusiasm, interest, minimize anxiety.
- 10. Make content personal, concrete, familiar.



#### **Intrinsic Motivation**

"...innate propensity to engage one's interests and exercise one's capabilities, and, in doing so, to seek out and master optimal challenges

(i.e., it emerges from needs, inner strivings, and personal curiosity for growth)

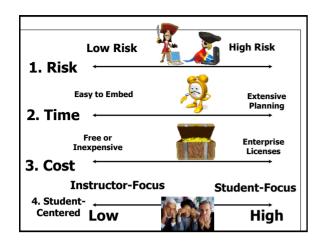
See: Deci, E. L., & Ryan, R. M. (1985). *Intrinsic motivation and self-determination in human behavior*. NY: Plenum Press.

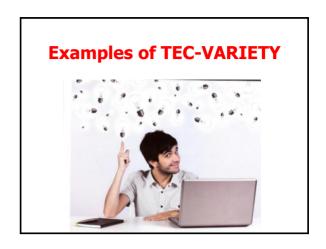


### Framework: TEC-VARIETY for Online Motivation and Retention

- 1. Tone/Climate: Psych Safety, Comfort, Belonging
- 2. Encouragement, Feedback: Responsive, Supports
- 3. Curiosity: Fun, Fantasy, Control
- 4. Variety: Novelty, Intrique, Unknowns
- 5. Autonomy: Choice: Flexibility, Opportunities
- 6. Relevance: Meaningful, Authentic, Interesting
- 7. Interactive: Collaborative, Team-Based, Community
- 8. Engagement: Effort, Involvement, Excitement
- 9. Tension: Challenge, Dissonance, Controversy
- 10. Yields Products: Goal Driven, Products, Success, Ownership

# Education 3.0? Introducing the free "TEC-VARIETY" Framework... http://tec-variety.com/ http://tec-variety.com/ TEC-VARIETY-Chinese.pdf ADDING SOME TEC-VARIETY LUMBRITY LUMB





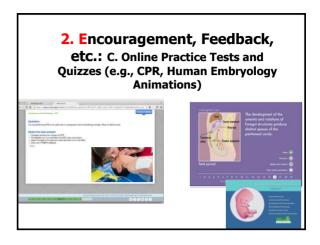


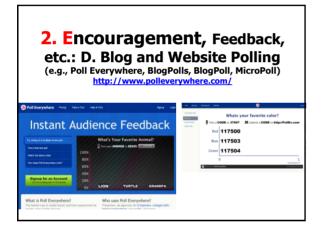


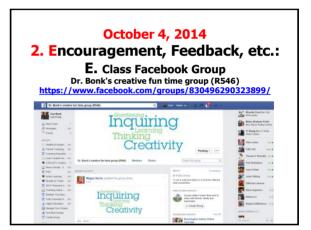


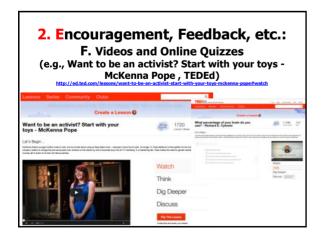


























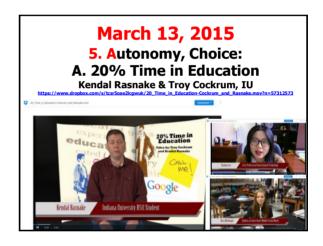
# Poll #2: Which of these ideas might you use?

- A. Threaded video discussions (e.g., Flipgrid)
- B. Video introductions (instructor or student)
- C. Demonstrations and tutorials (Jing, Screenr, etc.)
- D. Voice/Audio feedback (Vocaroo)
- E. Online practice tests
- F. Something in the news
- G. Tracking life of scientist

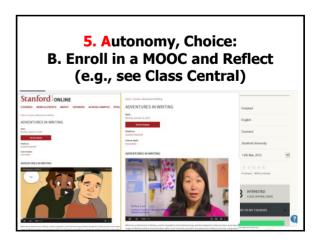




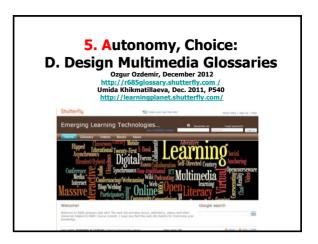


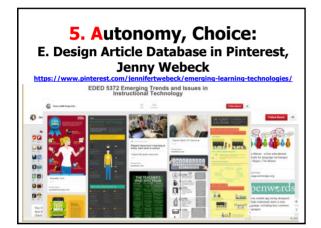


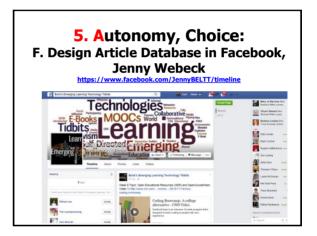


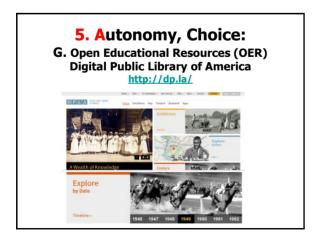


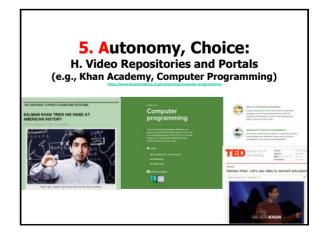








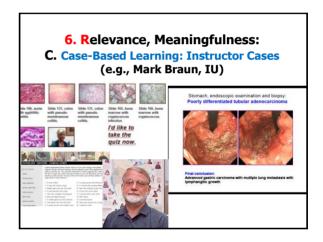


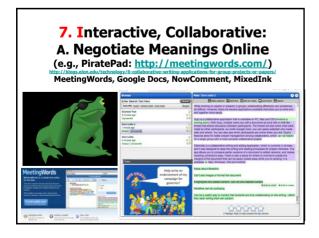


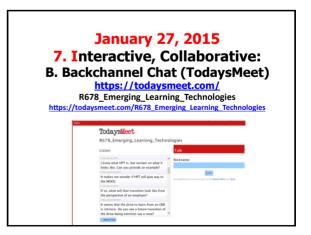










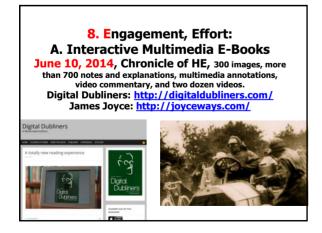




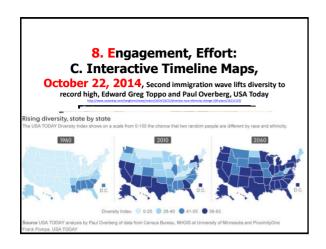






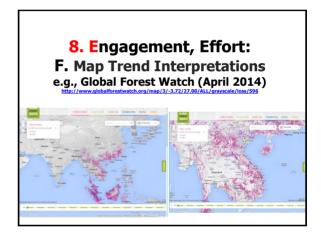


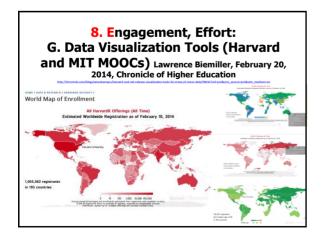












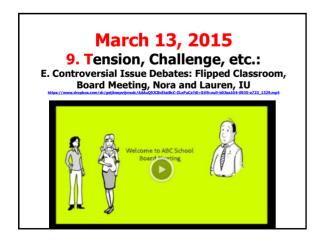


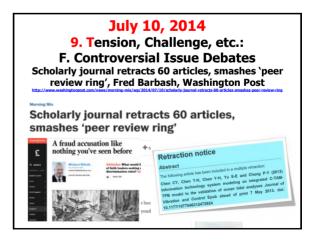




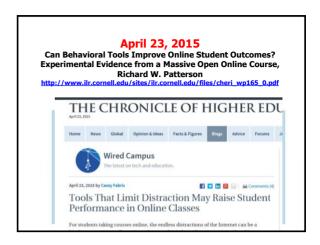




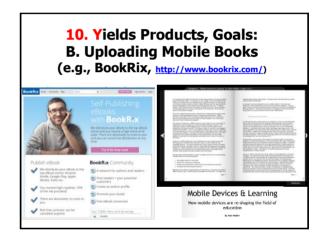




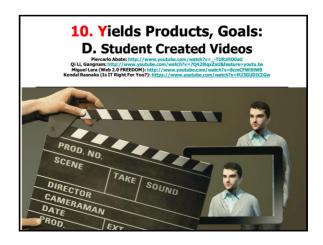
























## Part II Where Are You R2D2?:

Addressing Diverse Learner Needs with the Read, Reflect, Display, and Do Model

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# This Generation of Students

### Learning is Resource Rich March 22, 2015

Madagascar marvel:

Divers find fossils of extinct giant lemurs Daisy Carrington, for CNN, March 22, 2015

http://www.cnn.com/2015/03/19/africa/underwater-fossillemur-graveyard-madagascar/index.html





# November 25, 2014 OER Research Hub, OER Evidence Report: Building Understanding of Open Education 2013-2014 Inter/Oerresearchhub.files.worderes.com/2014/11/oerrh-evidence-report-2014.pdf OER Evidence Report 2013-2014 Building Understanding of Open Education

### What about the Instructor in the Open World?





# Nine "C" Metaphors of Instructors (e.g., "Cat Herders")





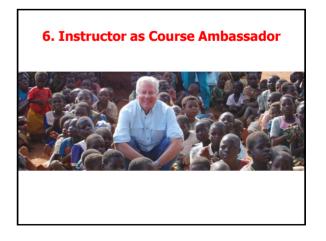










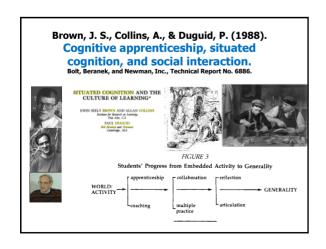




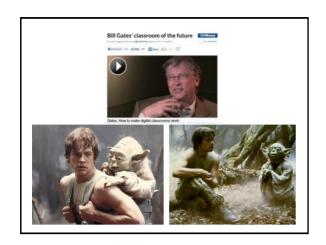


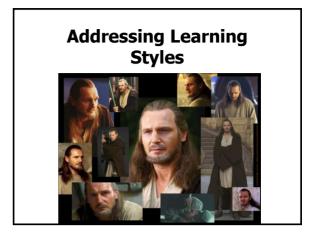




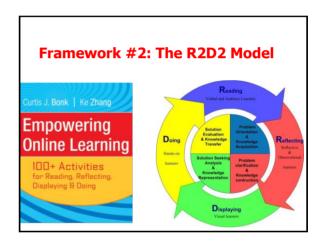
















#### The R2D2 Method

- 1. Read (Auditory and Verbal Learners)
- 2. Reflect (Reflective Learners)
- 3. Display (Visual Learners)
- 4. Do (Tactile, Kinesthetic, Exploratory Learners)







### 1. Auditory or Verbal Learners

 Auditory and verbal learners prefer words, spoken or written explanations.







### Read 1a. Collect and Listen to Interactive Stories

(e.g., Meograph: http://www.meograph.com/)







# Read 1c. Grammer Checkers (e.g., Grammarly, Ginger, GrammarCheck, PaperRater, and SpellCheckPlus) http://www.grammarly.com/





### 2. Reflective and Observational Learners

 Reflective and observational learners prefer to reflect, observe, view, and watch learning; they make careful judgments and view things from different perspectives

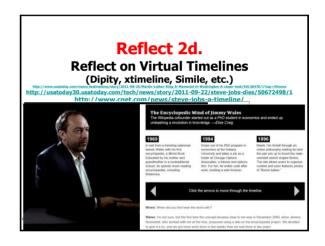






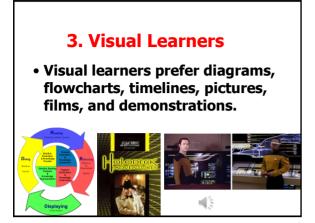


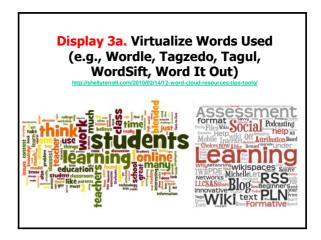


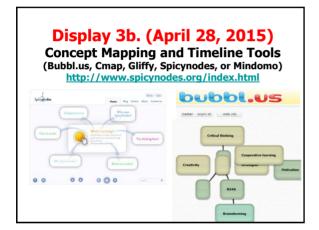




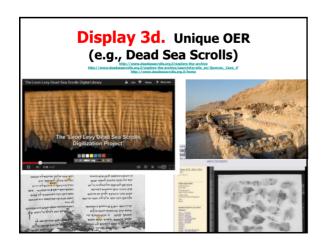


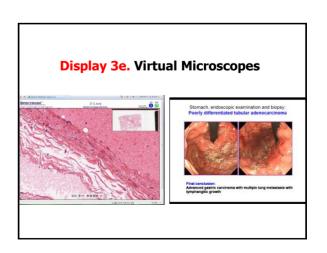




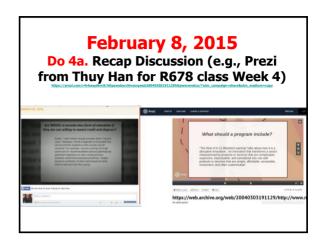




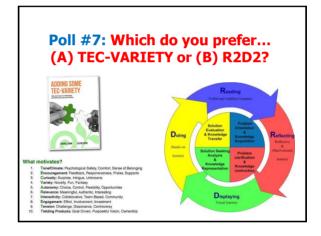












### Poll #8: How many ideas did you get from this talk?

- 1. 0 if I am lucky.
- 2. Just 1.
- 3. 2, yes, 2...just 2!
- 4. Do I hear 3? 3!!!!
- 5. 4-5.
- 6. 5-10.
- 7. More than 10.



