#### Best Practices for Online Learning: Introducing the R2D2 and TEC-VARIETY Models

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Learning is Changing Continued... New Technologies = New Delivery Methods...





II. Learning also is More Collaborative Collaboration and Discussion in Google Hangouts or with iPad, Jan. 28, 2013 (Carrie Gong from Beijing Normal University)







25+ billion

pp store

300+ million























## **Poll #2: Do students ever sleep through your clases?**











#### **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.
- Novelty, variety, choice, adaptable to interests.
   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

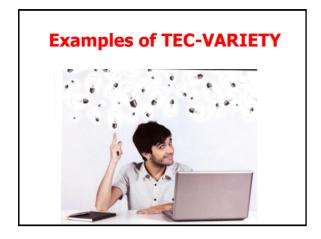
- "...innate propensity to engage one's interests and exercise one's capabilities, and, in doing so, to seek out and master optimal challenges
- (i.e., it emerges from needs, inner strivings, and personal curiosity for growth)

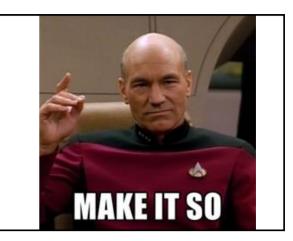
See: Deci, E. L., & Ryan, R. M. (1985). Intrinsic motivation and self-determination in human behavior. NY: Plenum Press.



#### Framework #1: TEC-VARIETY for **Online Motivation and Retention**

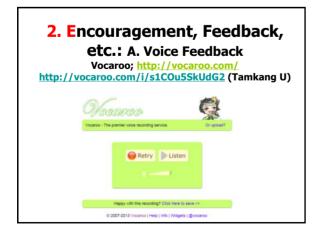
- 1. Tone/Climate: Psych Safety, Comfort, Belonging
- 2. Encouragement, Feedback: Responsive, Supports
- Curiosity: Fun, Fantasy, Control 3.
- Variety: Novelty, Intrigue, Unknowns
- 5. Autonomy: Choice: Flexibility, Opportunities 6. Relevance: Meaningful, Authentic, Interesting
- Interactive: Collaborative,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



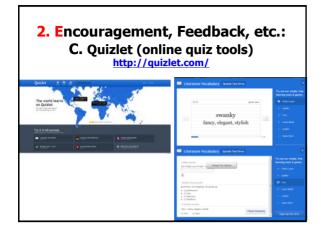








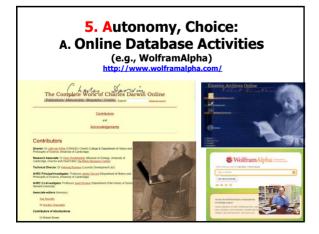


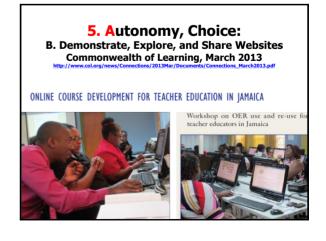


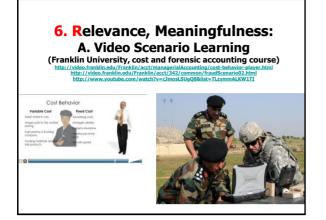






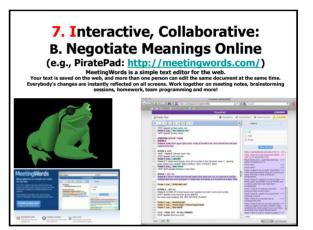


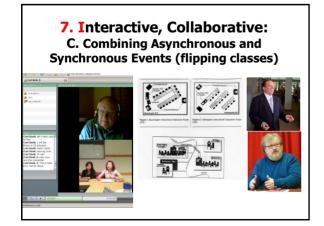




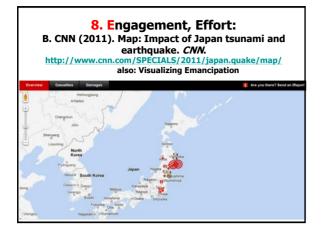




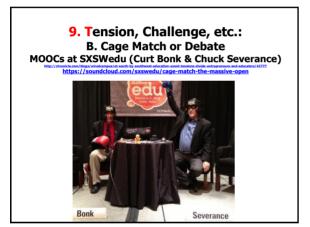














#### Commitments: Stop and Share:

Which principle(s) of TEC-VARIETY will you use?

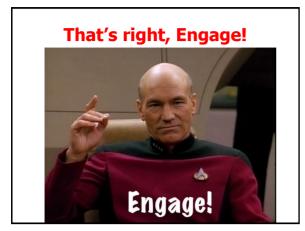
Tone/Climate Encouragement, Feedback Curiosity

Variety Autonomy Relevance Interactive Engagement Tension Yields Products

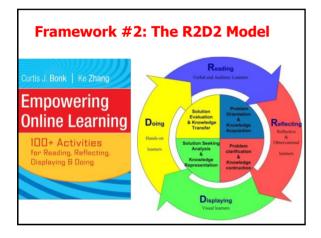








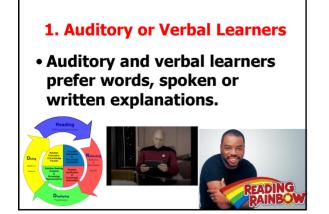




### The R2D2 Method

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





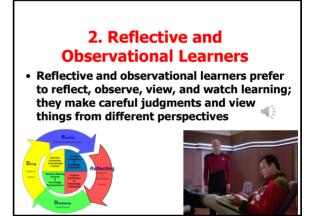


## **Read 1b.** Listen to Open Access Podcast Shows (and write papers)











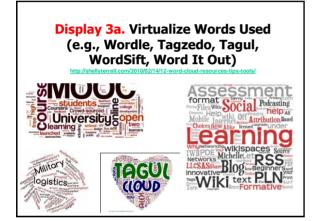


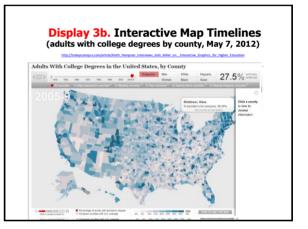


## **3. Visual Learners**

• Visual learners prefer diagrams, flowcharts, timelines, pictures, films, and demonstrations.



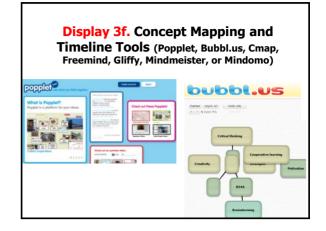












# 4. Tactile/Kinesthetic Learners • Tactile/kinesthetic senses can be engaged in

the learning process are role play, dramatization, cooperative games, simulations, creative movement and dance, multi-sensory activities, manipulatives and hands-on projects.









#### Poll #3: What phase of the R2D2 Method did you get the most ideas from ?

- A. Read (Auditory and Verbal Learners)
- B. Reflect (Reflective Learners)
- C. Display (Visual Learners)
- D. Do (Tactile, Kinesthetic, Exploratory Learners)







