

## Working Group 1: Applying Framework

GROUP LETTER (A-E): \_\_B\_\_

**Please select one or two projects discussed in the morning meeting and use these as case studies to answer:**

**Topic – Developing Math Instructors’ Understanding of Technology – Maria A.**

- Math instructors at a community college
- Study looking at threshold skills underlying adaption of new technology
- Many classes taught online at community colleges
- One of the goals to get faculty to learn different software (video capture, screen capture, etc) to help them teach math; the other to teach them to feel comfortable
- Challenges: Instructors not aware certain technologies exist or they overstate their knowledge
- Every day asked faculty questions about their comfortable they were before and after using the new technology; how would they plan to use their professional life; how useful was their topic
- Key questions:
  1. Where are instructors getting math-specific training for online pedagogy?
  2. How do you see the use of this tool helping you professionally?
- 1. Initial findings:
  1. Most of the information came from the publishers who had day-long training sessions for the faculty (less from
  2. Several new learning communities developed and launched onto website
- Described “new” innovations of facilitation

**How do these projects fit within the Framework presented in the conference paper / morning discussion (The foursquare of: individual – collective; prescriptive – emergent):**

1. *Developing*: Curriculum & pedagogy
  - Challenge: no incentive necessary to learn new technology (poor pay)
2. *Developing Reflective Teachers* (traditionally faculty who don’t believe in teaching courses online
  3. (Development of learning objectives)

3. *Developing Policy.*
  - a. (much of the technology being created by people in India)
    - Publicity essential to deal with crisis
    - Finding more funding (TED conference; gates foundation)
4. *Developing Shared Vision*
  - Challenge with seemingly solitary nature of institution

### **How do the ideas / projects NOT fit within the framework?**

More than just asking incentives/disincentives of the instructor

Core questions: faculty and administrators do not have much knowledge of technology or its use; inability to make connections between technology and specific disciplines; training is not discipline specific and people can't keep up.

- Problem is not uniquely located at Maria's school
- Other community colleges that have shown leadership; innovations have been organized around specific figures

### **How might the projects be extended based on the Framework?**

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### **How might the Framework be modified, based your the discussions of these projects?**