Teacher Education MOOCs for Developing World Contexts: Issues and Design

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THE PROBLEM

Massive Shortage of Teachers Worldwide

2. 6 Million Additional teachers needed by 2015 UNESCO Bureau of Statistics (2006)

Acute in Developing World Contexts

ONE POSSIBLE SOLUTION

Distance-Oriented Educational Technologies Latest Generation of these are MOOCs

So how can these be designed?

ISSUES & CONSIDERATIONS

	Pedagogical Affordances	Instructional Appropriateness	Technological Affordances
	 Domain knowledge and skills Instructional activities 	Initial Training Pre-service teachers In-service teachers	 Needs of the learner Technological Infrastructure E-learning readiness skills
9224		 Professional Development Qualification upgrading Reorientation education Career development 	

PEDAGOGICAL AFFORDANCES

MOOCs must have features that:

Facilitate the Acquisition of:	Provide Opportunities for Reflection on:	Provide Social Interaction and Knowledge Exchange between:
Domain knowledge and skills e.g. English, History, Science, Math, etc.	 Domain knowledge and skills Designed instructional activities In-the-field teaching practice experiences 	 Teachers and their peers teacher educators practicing teacher- mentors other experienced teachers
Instructional activities knowledge and skills e.g. Lesson plans, assessment instruments, in-class activities, etc.		

INSTRUCTIONAL APPROPRIATENESS

MOOCs mu	MOOCs must facilitate the instruction, learning, and assessment of different aspects of teacher education.				
Instructional Content	Domain Knowledge	 Domain Skills Instructional activities design and skills 	Professional Development		
Instructional Strategies	 Presentations via video, audio, text Structured discussions Automated Assessment multiple-choice quizzes fill-in-the-blank etc. 	 Peer reviews - finely-tuned peer pairing of advanced peer teachers and trainee teachers Reviews by teacher- educator mentors Structured discussions Explicit formative and summative assessment criteria (rubrics) 	 Peer reviews Semi-structured discussions Open-ended discussions Open-ended discussions Community of Practice: Community of Practice: teachers advanced peer teachers advanced peer teachers teacher educator mentors other relevant and interested persons 		

TECHNOLOGICAL AFFORDANCES

MOOCs must take into account the:

Needs of the Teacher	Infrastructure in the Teacher's Locale	e-Learning Readiness Skills of the Teacher
 What types of knowledge and skills does the teacher require? How efficiently and effectively can the MOOC tools and components afford these? 	 To participate effectively in an MOOC the teacher must have: Access to a computer (desktop, laptop, tablet, smart phone) Web browsing and other required software Internet connection with reasonable upload and download speeds 	 Teachers must be: skilled in the use of communication and collaborative technologies have basic computer operating skills have an understanding and appreciation for collaborative learning have self-directed learning skills

OTHER PERTINENT ISSUES

 Entry Requirements - Tradeoffs of too much Openness
 Accreditation
 Quality Assurance
 Business Model (Sustainability)
 Can a teacher education MOOC be really free?
 Can a free teacher education MOOC be really sustainable?)

SELECTED REFERENCES

THANK YOU

