#### **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
	<ul> <li>Domain knowledge and skills</li> <li>Instructional activities</li> </ul>	Initial Training Pre-service teachers In-service teachers	<ul> <li>Needs of the learner</li> <li>Technological Infrastructure</li> <li>E-learning readiness skills</li> </ul>
9224		<ul> <li>Professional Development</li> <li>Qualification upgrading</li> <li>Reorientation education</li> <li>Career development</li> </ul>	

## 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.	<ul> <li>Domain knowledge and skills</li> <li>Designed instructional activities</li> <li>In-the-field teaching practice experiences</li> </ul>	<ul> <li>Teachers and</li> <li>their peers</li> <li>teacher educators</li> <li>practicing teacher- mentors</li> <li>other experienced teachers</li> </ul>
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	<ol> <li>Domain Skills</li> <li>Instructional activities design and skills</li> </ol>	Professional Development		
Instructional Strategies	<ul> <li>Presentations via video, audio, text</li> <li>Structured discussions</li> <li>Automated</li> <li>Assessment</li> <li>multiple-choice</li> <li>quizzes</li> <li>fill-in-the-blank</li> <li>etc.</li> </ul>	<ul> <li>Peer reviews - finely-tuned peer pairing of advanced peer teachers and trainee teachers</li> <li>Reviews by teacher- educator mentors</li> <li>Structured discussions</li> <li>Explicit formative and summative assessment criteria (rubrics)</li> </ul>	<ul> <li>Peer reviews</li> <li>Semi-structured discussions</li> <li>Open-ended discussions</li> <li>Open-ended discussions</li> <li>Community of Practice: <ul> <li>Community of</li> <li>Practice:</li> <li>teachers</li> <li>advanced peer teachers</li> <li>advanced peer teachers</li> <li>teacher educator mentors</li> <li>other relevant and interested persons</li> </ul> </li> </ul>		

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

## 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

