App
A tablet-based solution for training immunization facility workers in Laos

Tore, Sang-Wha, James, Sam
The vaccine cold chain transports temperature-sensitive vaccines from the national level down to local health facilities.
Cold chain managers, health facilities, and vaccine recipients can benefit from accurate, up-to-date information.
Each month, immunization centers in Laos must report a summary of vaccine stock levels and cold-chain refrigerator performance.
These summaries are sent as structured SMS messages.

Stock level
PCV vaccine: 102
Penta vaccine: 81
But, many people in Laos have never used SMS.
Health facilities need to quickly train workers to send these messages correctly.
Currently, new workers have to learn from PowerPoint slides.
Our solution

A tablet-based interactive training application using Android

• Training videos
• Interactive quizzes
• Instructive puzzles
Meet Akamu, a Health Center worker in Laos.
Browsing instructional packages

An instructional package consists of...

• a video on a specific topic
• a related instructional quiz
• instructional puzzles
Training videos

- Consistent
- Videos can be refined by instructors
- Video segments can be replayed as necessary
- More workers can be trained, quickly
Interactive quizzes

- Dynamic feedback
- Gamification can enhance learning
Architecture

• Android application
  o Video playback support
  o Interactive sections
• Extensibility
  o Implement other training packages
Design challenges

• Working with Lao
• Making the interactive training intuitive and effective
• Creating an extensible platform, so that new instructional packages can be added easily
Prototype iteration

Prototype revisions will be based on...

• Feedback from Ranjit and Viorica
• User testing in Laos
Current status

We have met with…

- Ranjit Dhiman
  UNICEF cold chain consultant

- Viorica Berdaga
  UNICEF Chief of Health and Nutrition in Laos

- Trevor Perrier
  UW grad student
Next quarter

• Before next quarter:
  o “Hello, World”, in Lao

• Next quarter:

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Related work

- Digital Green
- Digital Public Health
- MultiLearn
The goal

- Enhancing the learning experience
- Reliable, up-to-date information on vaccine stock levels and the cold chain
- An extensible platform for adding new instructional packages
Questions?

Thank you