## App

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



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The vaccine cold chain transports temperaturesensitive vaccines from the national level down to local health facilities.



Cold chain managers, health facilities, and vaccine recipients can benefit from accurate, upto-date information.



Each month, immunization centers in Laos must report a summary of vaccine stock levels and cold-chain refrigerator performance.

# SL PC 102 PE 81

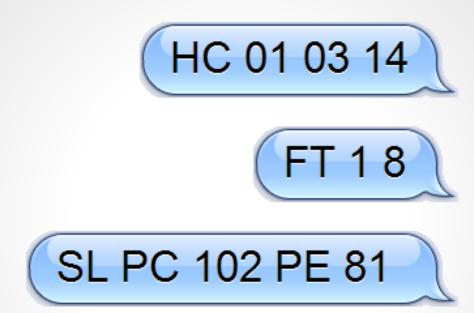
Stock level PCV vaccine: 102

Penta vaccine: 81

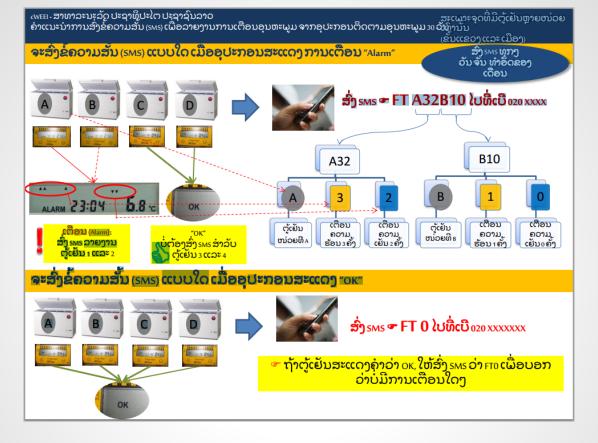
These summaries are sent as structured SMS messages.



But, many people in Laos nave 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,



#### **Browsing instructional packages**

An instructional package consists of...

- a video on a specific topic
- a related instructional quiz
- instructional puzzles



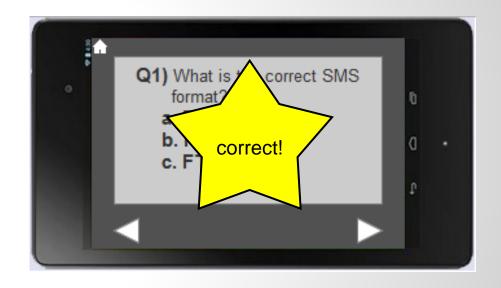
#### **Training videos**

- 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
  - Video playback support
  - Interactive sections
- Extensibility
  - 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 PerrierUW grad student

#### **Next quarter**

- Before next quarter:
  - o "Hello, World", in Lao
- Next quarter:



APRIL	MAY	JUNE
Initial App Development	User Testing and Revisions	Final Application
	Midterm Presentation	Final Pres

#### 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