SMART PHONE INTEGRATION WITH HEALTH INFORMATION SYSTEM

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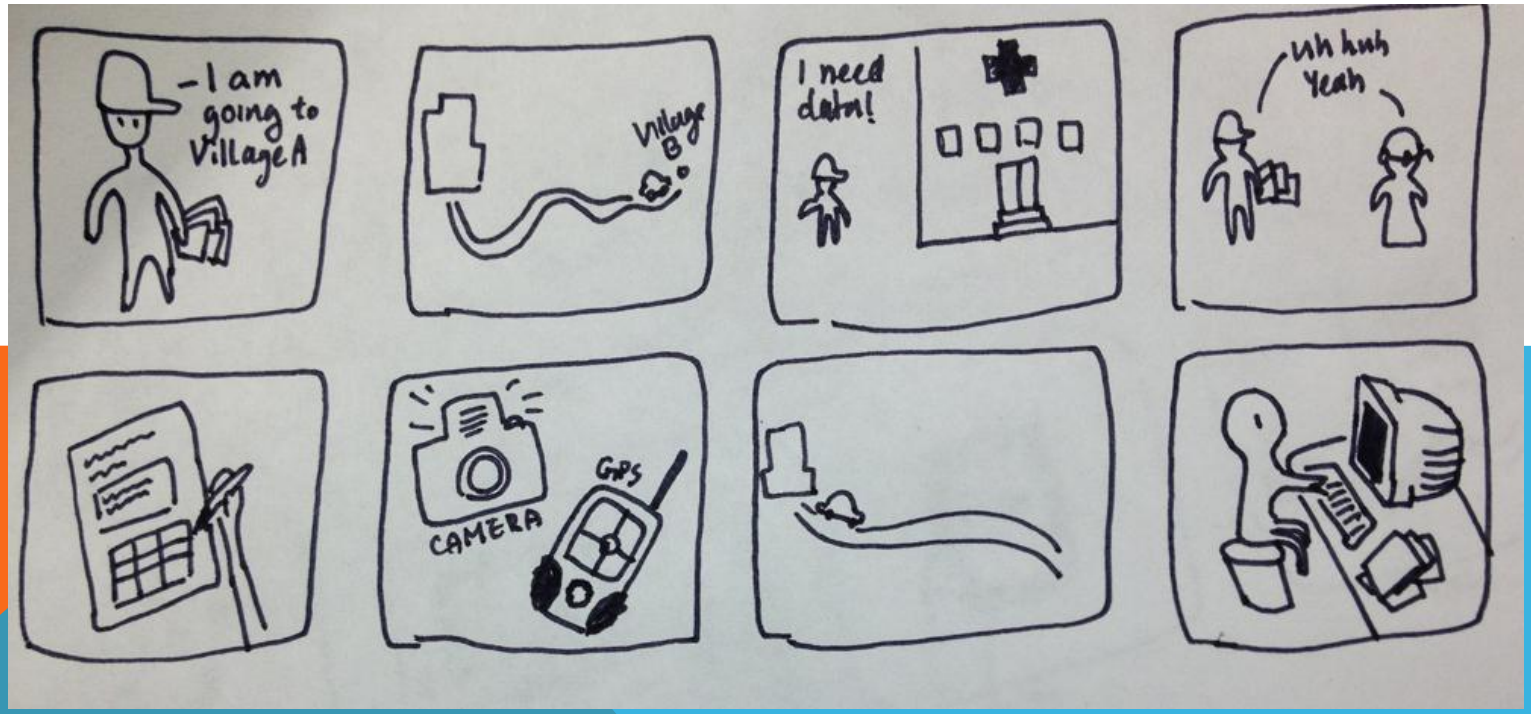
PROBLEM SPACE & PROJECT DESCRIPTION

Problem

- Collection and storing of healthcare inventory information in inefficient way

Today

- paper, paper, paper… Into paper folders, eventually to server



OUR PROJECT

Our solution

- Android platform that will help collect and update information directly from and to the DHIS2 database

Challenge

- Regions without mobile service
- Can we make filling out forms easier and quicker?
- Limited communication with HISP/health facilities

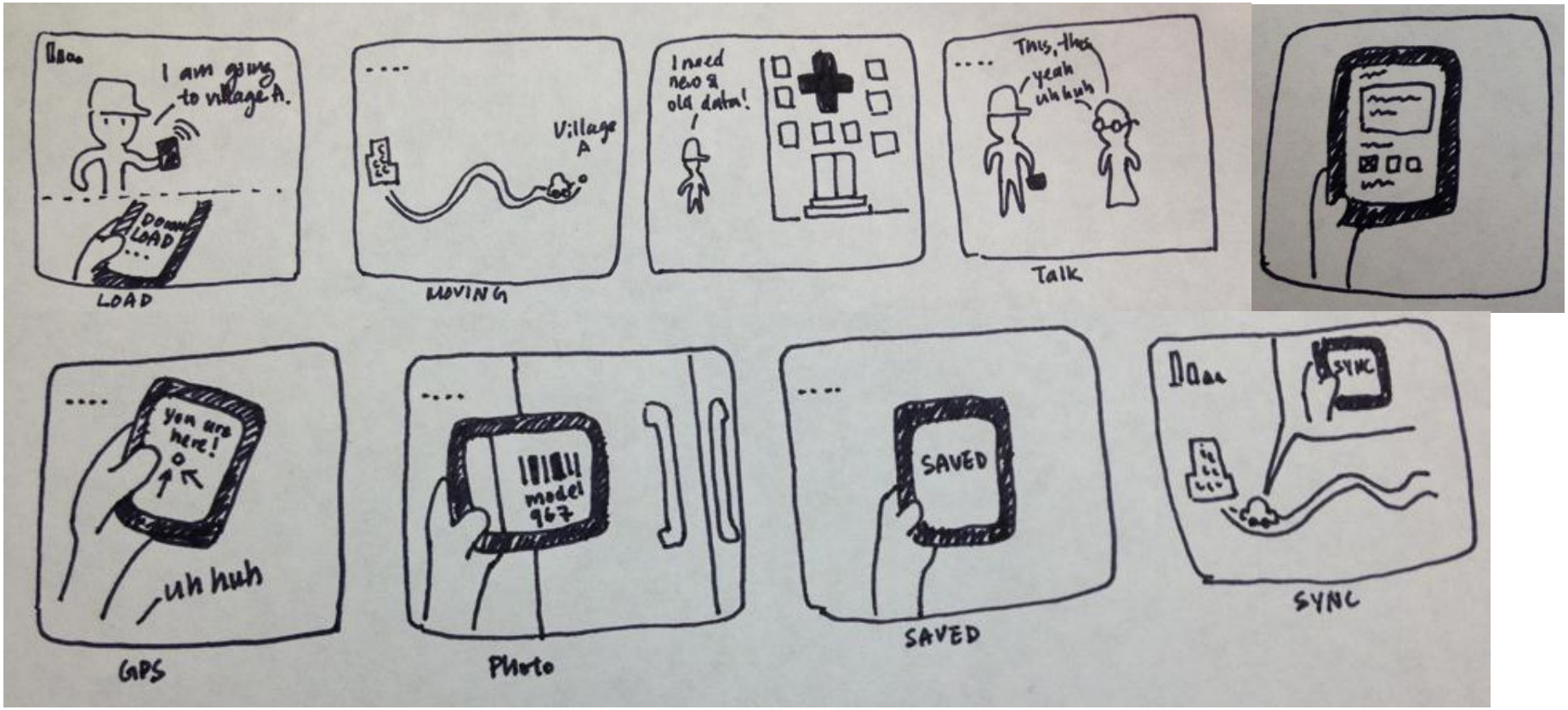
Who will care?

- Health community workers, HISP India

Who will effect?

- People who are treated in remote villages

HOW OUR APP WORKS



RELATED WORK & WHAT WE LEARNED

ODK – customizable forms

- ODK Clinic – OpenMRS, Yaws
  - Currently even if data to get submitted on a server, data is not analyzed/used to the max
  - Use of multiple devices to gather information

Commercial inventory tracking android apps

- Inventory Droid, Inventory Tracker
- Multimedia data – photo, scans, receipts, CSV

Big impact to the community

- The more data submitted, the more likely to be resourced

FIELDWORK FINDINGS

- Various forms to be submitted to Database
- Prof. Richard Anderson
- Skype with Knut Staring (Next Monday)
- Cold chain inventory report – another form
- DHIS2 Seminar on last Tuesday
  - DHIS2 is a software wrapper on top of a database
  - Mainly used for reporting data
  - (not) Used in making decisions
  - Yet the data is required to make decisions

BASIC SCENARIO

ARCHITECTURE

Basic components: DHIS2, ODK, Android

Get/Post data from DHIS2 to the application and use ODK to customize the forms.

OpenDataKit
magnifying human resources through technology

NEXT STEPS (FOR SOLUTION SKETCH/PROTOTYPE PRESENTATION SCHEDULED FOR NEXT WEEK)

Prototype with

- Paper
- Balsamiq
- Functioning prototype

Test with people who has no knowledge of how to use the application

Skype with Knut

Test in person, over screen share