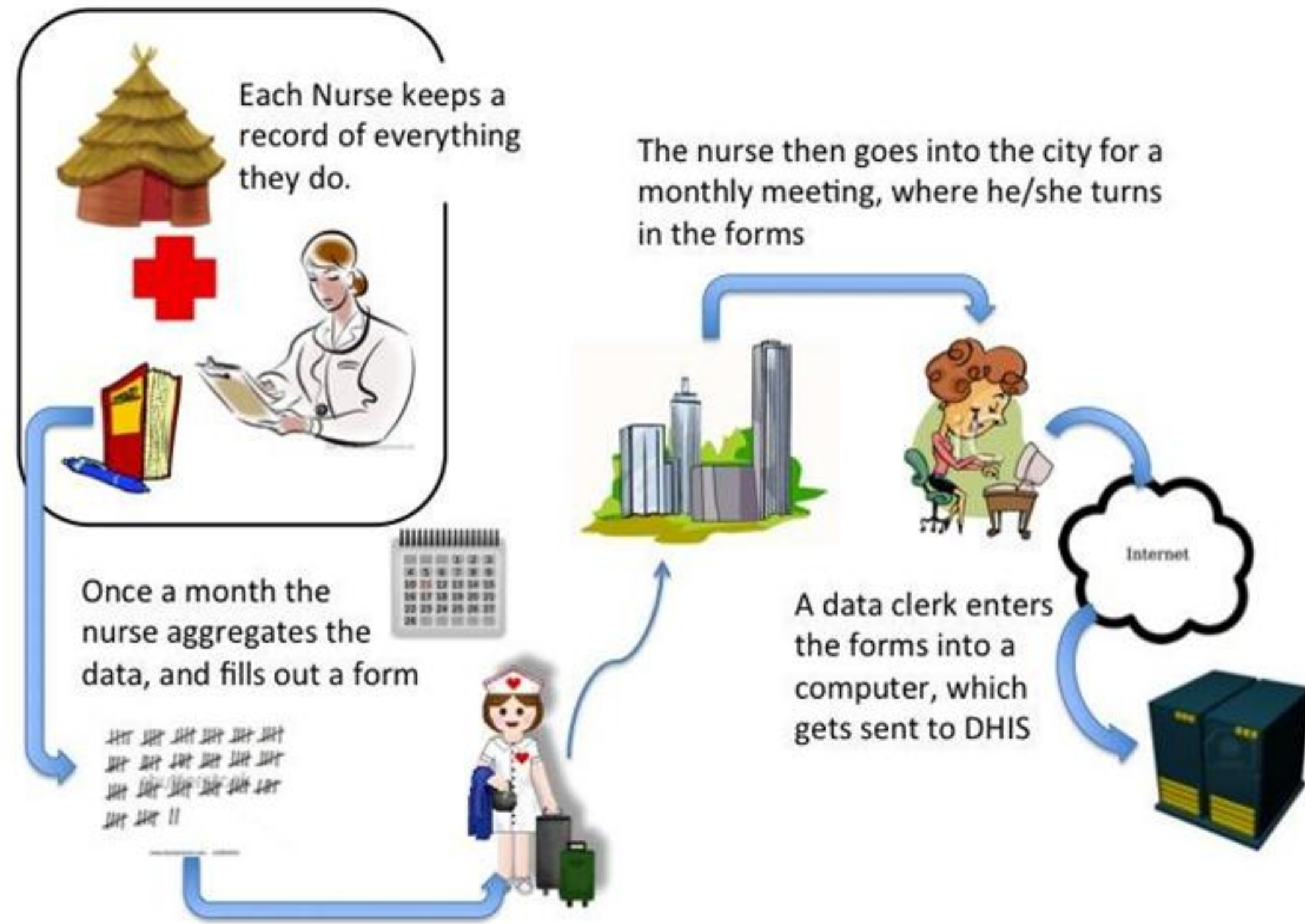


DHIS 2 ODK

Ji Mun, Nara Kim, Matt Moyers and Nolan Cash

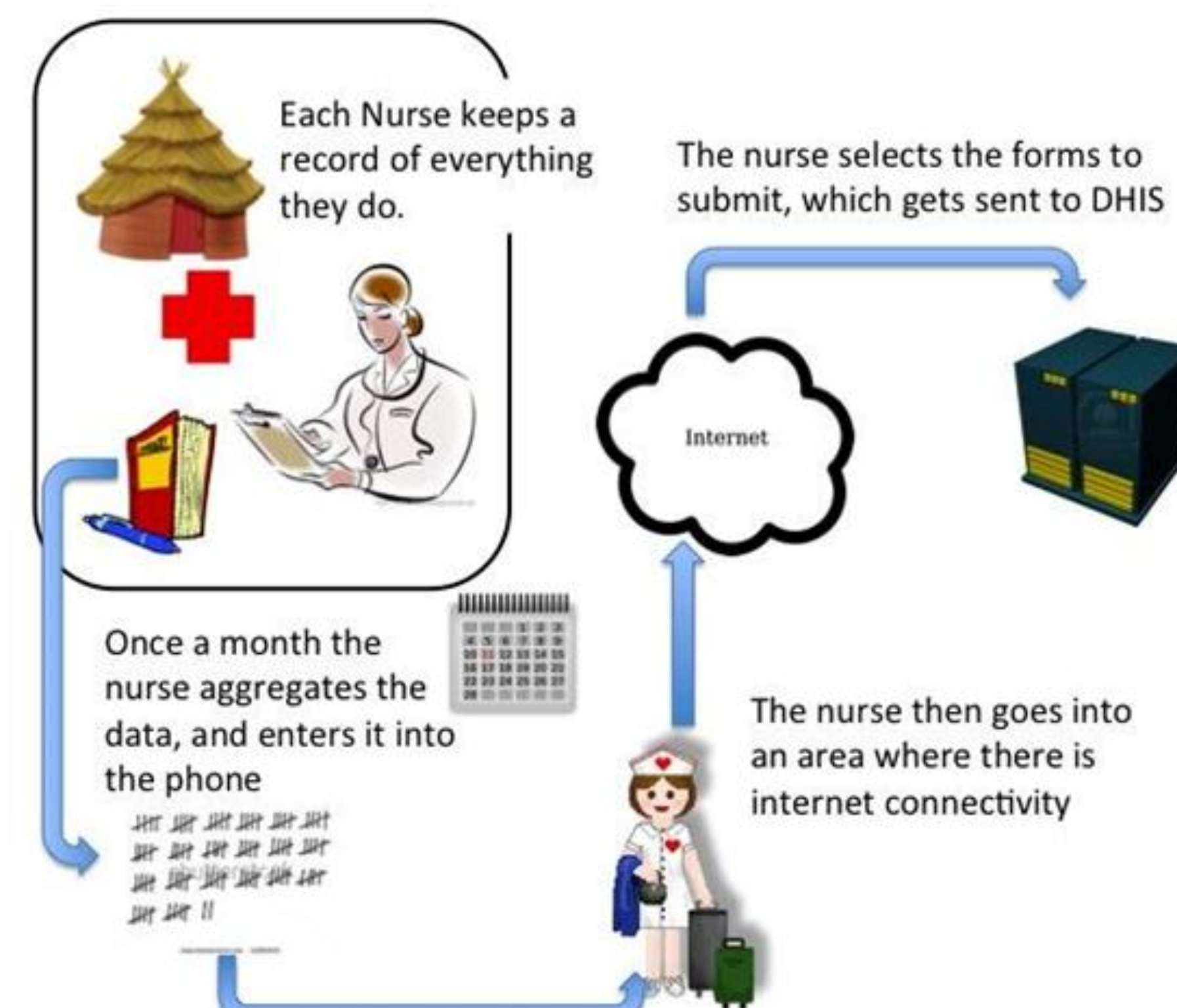
The Problem

Paper based data collection is time consuming and prone to human error.



Solution

Data collection through a smartphone application.



What is DHIS?

District Health Information System

Open Source Health Information system
 - Database designed to store and analyze health information
 Currently in use in Africa and Asia
 - covers 300~400 million people

Inventory Form

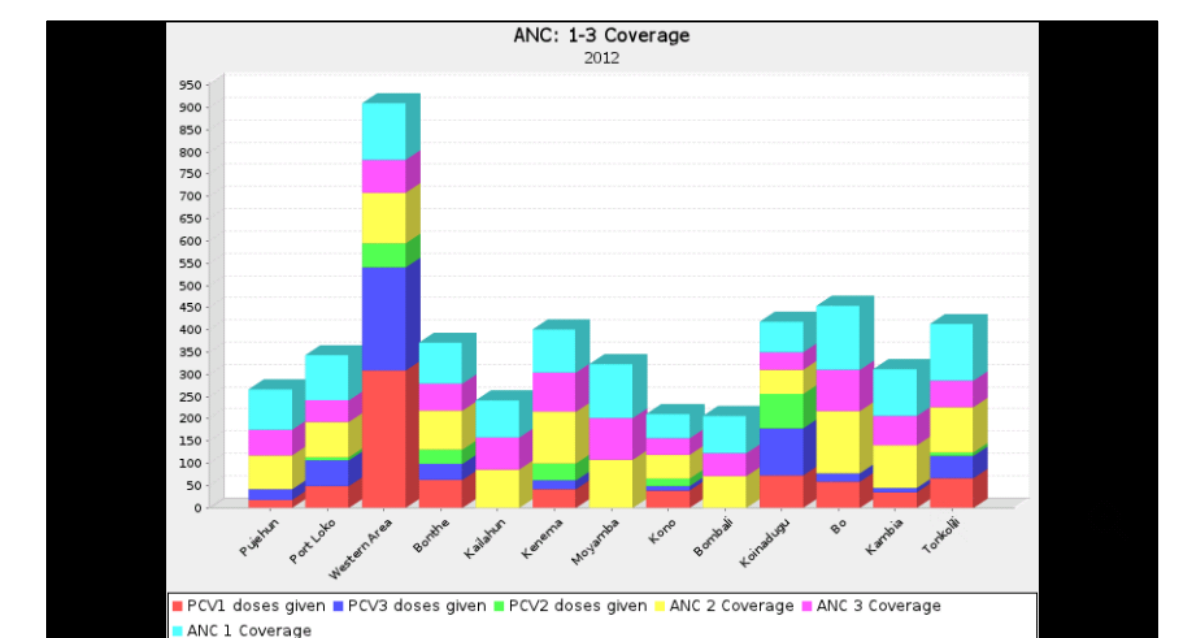
Organization Name: CSE Department

Time Period: May 2012

How many computers are there?
 234

Why Smartphone Application?

- View Data as well as Reporting it
- Provides way of reporting data anywhere
- Manage Power and Connectivity Issues.
- Hardware is cheap and easily available



Architecture

Main System Components

Server Tasks

- Threaded Tasks
- Interacts with DHIS API
- Parses Data (JSON to Internal Objects)

Application Cache

- Holds all Forms + Reports
- Emulates DHIS data structures
- Responsible for saving changed data to disk

User Interface

- Interacts with user to get data

