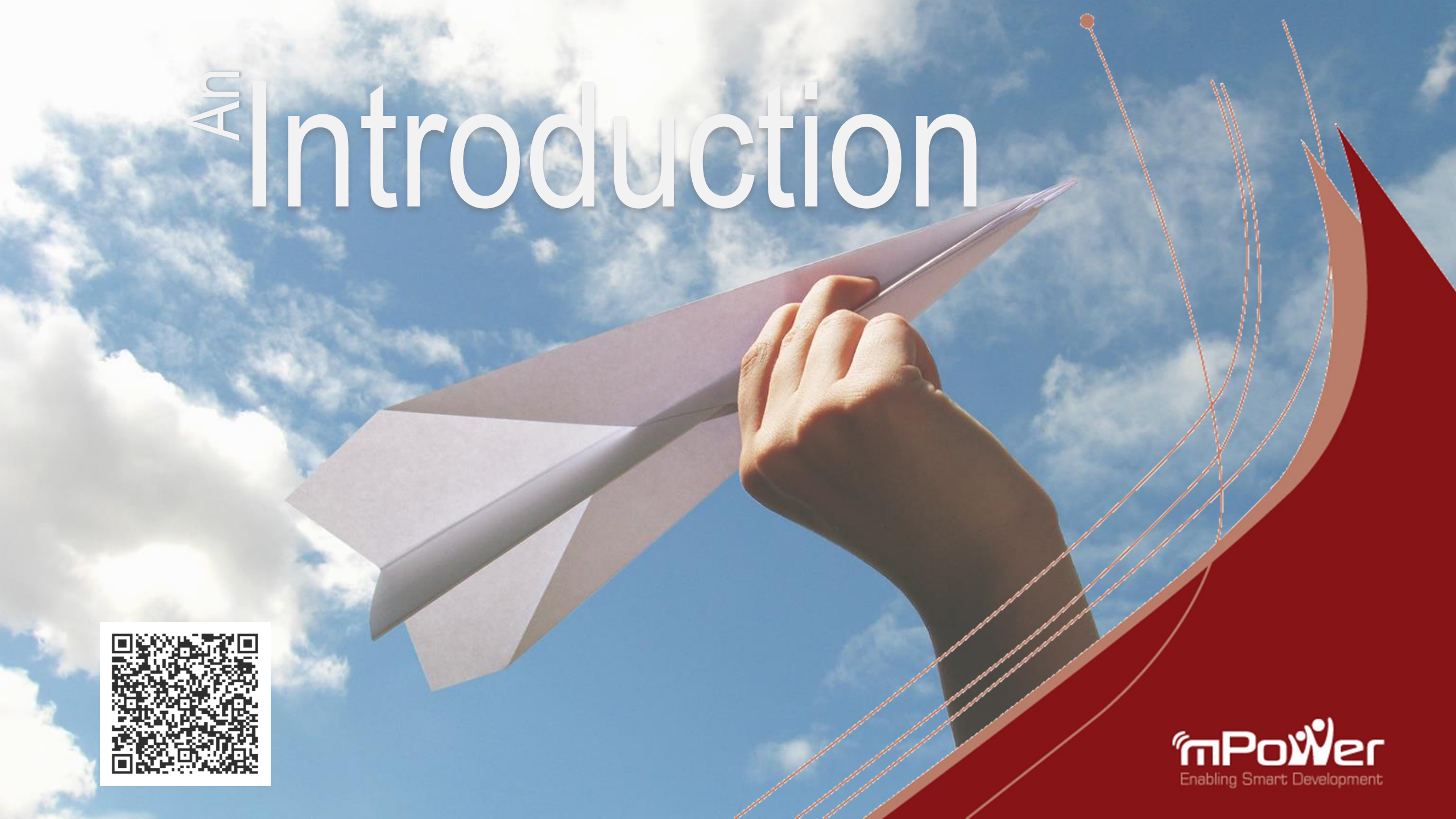
# An Introduction



mPower
Enabling Smart Development

# About mPower

mPower Social Enterprises Ltd. **designs**, **develops** and **implements** mobile technology-based platforms to enable,



Development organizations to use digitized data from the field for **targeted and timely decision-making**



Community-based entrepreneurs to serve as mobile technology empowered **service providers with remote support of experts**

# We have Worke with d

## HEALTH

World Health Organization

GRAMEEN KALYAN

telenor group

ORBIS

brac

Ministry of Health & Family Welfare

UNIVERSITY OF TORONTO

JOHNS HOPKINS BLOOMBERG SCHOOL of PUBLIC HEALTH

## LIVELIHOOD

Save the Children

Center for International Development at Harvard University

Oxfam

## AGRICULTURE

USAID FROM THE AMERICAN PEOPLE

care

IRRI

## EDUCATION

unicef

POPULATION COUNCIL Ideas. Evidence. Impact.

Save the Children

## Sanitation

WaterAid

# Global Deployment

**USA**
Tele-Dermatology for disadvantaged population
American Academy of Dermatology
2009

**Egypt**
Tele-Dermatology
Egyptian Government, Mobinil, Qualcomm, GSMA
2008

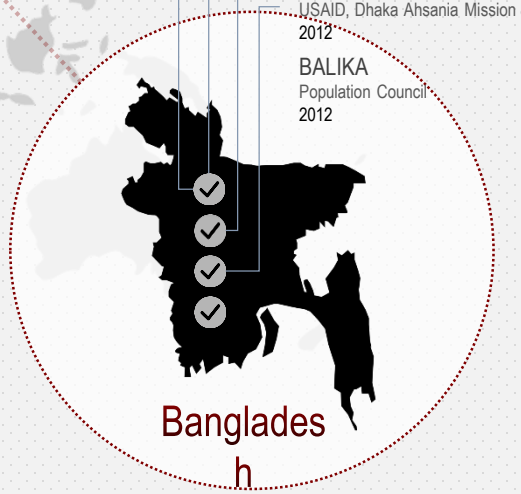
**Philippines**
Maternal Health through Community Nurses
MIT Next Billion Project
2010

**Haiti**
Clinical Management System
Hope for Haiti
2013

**India**
Maternal & Child Health Service & Surveillance
Sewa Rural
2011

**Guatemala**
Tele-Dermatology at District Level
Guatemala District Hospital
2009

**Botswana**
Tele-Dermatology through rural clinic
Botswana Ministry of Health
2009




**mTikka: Vaccination Tracking**
Johns Hopkins University, ICDDR, B & Ministry of Health, Bangladesh
2012

**mCare: Enhancing Survival of High Risk Neonates**
Johns Hopkins University & Ministry of Health, Bangladesh
2012

**Shiree: Change Monitoring system**
Shiree/Ukaid – DFID & Government of Bangladesh
2012

**USAID: Ag Extension Project**
USAID, Dhaka Ahsania Mission & CARE
2012

**BALIKA**
Population Council
2012

# Challenges in Existing WASH Projects

1. **Understanding program catchment areas** characteristics and needs of community members.

2. **Measuring and Monitoring Impact** of established water point

3. **Community engagement** in program management and reporting

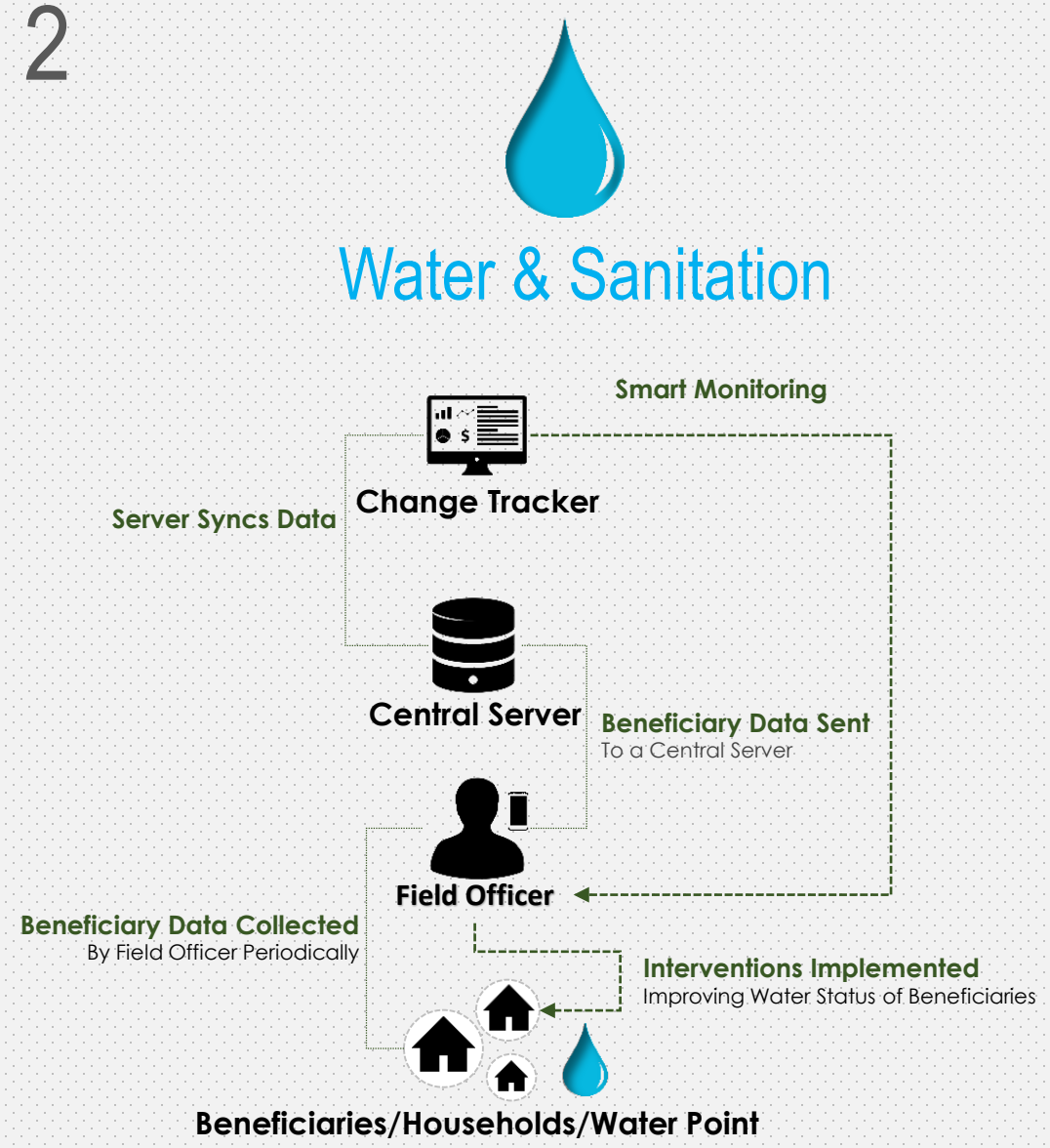
# mPower solution to challenge 1

- GIS and remote sensing based Web Dashboard
  - Map ground water level of program area
  - Identifying existing water-point and their location
  - Based on the information taking ‘informed decision’ on where to setup water point



# mPower solution to challenge 2

- Mobile Based Smart Monitoring System
  - Tracking program status in real time for making timely program intervention using mobile technology
  - Real time water quality testing and tracking of water points
  - Digitizing program data to for efficient monitoring
  - Visualization to track changes of beneficiary Wat-San
  - Special needs for Person with Disabilities (PWD) in program monitoring



# mPower solution to challenge 3

- ICT based service for ensuring citizen participation
  - Using mass SMS to create awareness on Wat-SAN issue
  - SMS based reporting from the community in case of any problem with water point
  - Using interactive ICT content and multimedia to promote Behavior Change



Problematic Waterpoitn



Citizen reports using SMS



Data receives in the server

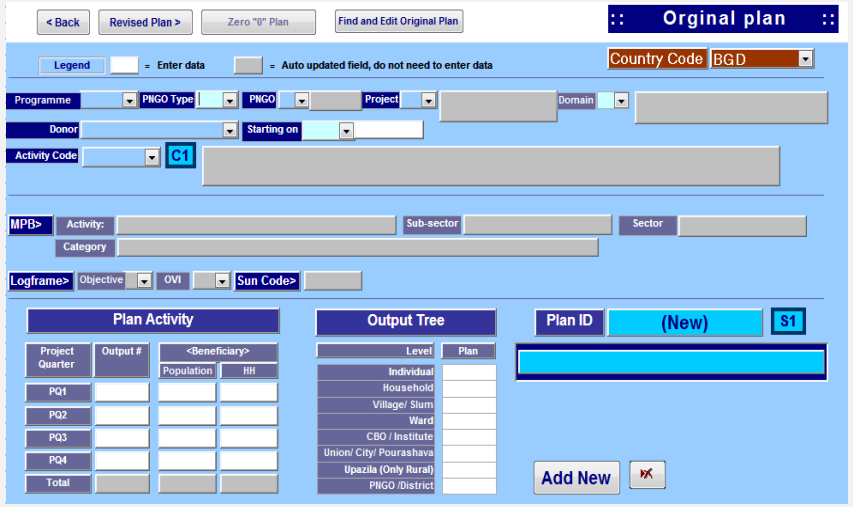


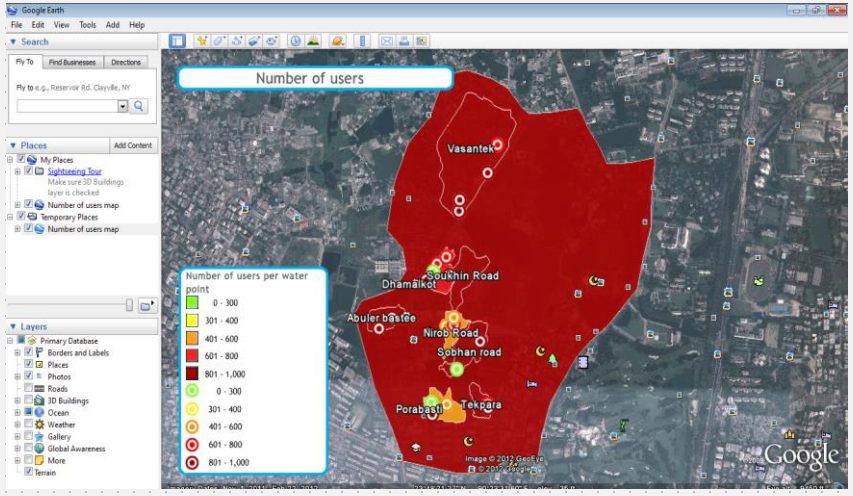
**Field Officer**

Field officers gets instant notification

# Example: Water Aid PMIS(Previous System)

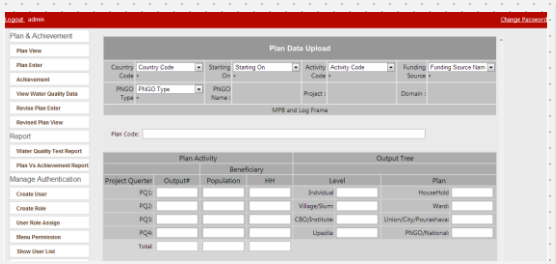
- Program based plan activity was offline using MS Access
- Water quality testing data were sent through email using offline MS package. No real-time data
- Monthly reporting system
- No web based targeted reporting system
- Water point map generation through Google Earth
  - Needed to access from a pc with all the offline pictures
  - KML file needed to be uploaded



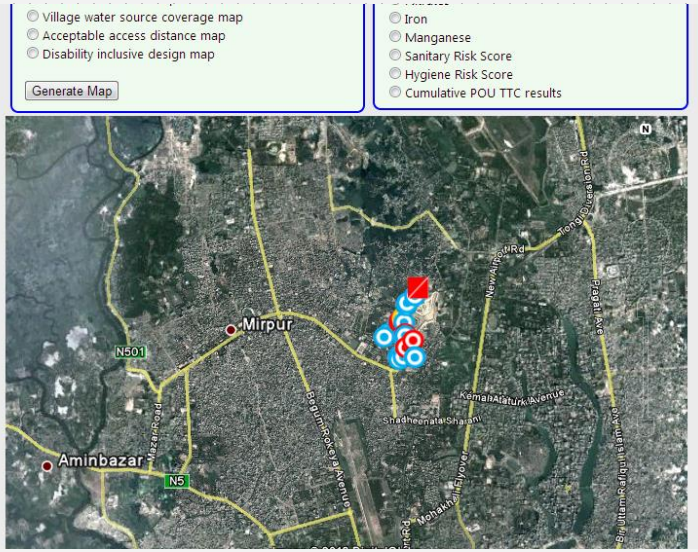
# Example: Water Aid mPMIS (mPower)

- Web based plan entry of the project using unique id and password
- Activity achievement data was sent using smart phone app with picture and GPS location
- Engineers sent the water quality testing data in real time using smartphone app
- Web based report generation at any point of time
- Web based map generation using google map









# Readiness for Organizations

- People Engagement
  - It's a cloud based system. So, no dedicated system admin required
  - User friendly online system. So, skills with basic ICT will be needed.
- System requirements
  - Computer for project managers
  - Smart Phone for field staffs with data connectivity
- Type of software and platform
  - Open Source Data Collection platform (ODK)
  - Visualization (Tablue)
  - Web Platform for program managers (PHP)
- Cost
  - Depends on level of customization and amount of data

# THANK YOU


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