Smap Consulting
&
EzPilot
EzPilot- Company Description

• Based in Palestine

• In Ezpilot we provide data Collection and analysis service, we use new technologies to insure providing high quality data even in collection or analysis.

• We use smart phone and tablets application to collect the data from the field, this to insure minimize the error margin in the data, by using high validation and connection between the questions itself in the same survey.
Why EzPilot is different?

1. Data collection using mobile app to reduce using paper.
2. Reduce error margin by using relevant and constraint in the same survey.
3. Saving time and reduce error margin.
4. After analyses data we use different ways to present it such as charts, infographic, animation and SPSS reports.

• Founders:

1. Salah Hussein, Founder & CEO
2. Feras Abu Nimreh, Co-Founder & CTO
Smap Consulting - Company Description

• Based in Australia
• Provides software for mobile phone based data collection and analysis
• Founder – Neil Penman
Vision

• Our vision is that Information Technology should be used as a tool to make industries more efficient and effective
• We provide easy to use mobile data collection at low cost
• This basic service can be extended where this adds value
• We are focused on the technology
  – The work of conducting an assessment or analyzing the results can be done by your own DME department or with the assistance of one of our partners such as ezPilot
  – Today we are still a company with one employee and we aim to grow to 3 people
    • This, we think, will be the ideal size to support the technology while keeping costs low
Smap Consulting History - Early Days

• While at IBM Neil began working on mobile data collection in his spare time as part of IBM’s “give back” program
  – Collaborating with World Vision and RMIT University
• We conducted our first survey in Cambodia in 2008
  – 100 households
  – J2ME phones with a custom application
  – Questions and responses entered using Khmer font which I think was the first time Khmer had been put onto mobile phones for any purpose

This photo is from that first survey. The person on the left is using the phone. The one in the middle is doing a parallel paper survey so we could compare the approaches. The householder is on the right.
Smap Consulting History – Adoption of ODK

- We conducted further surveys using java phones in Mozambique and Malawi
- In March 2011 we adopted ODK and Android as the mobile phone app
- In November 2011 Neil left IBM to form Smap Consulting
- We now support data collection in over 50 countries
Customers – World Vision

The following are some of the WV offices using Smap

- Cambodia
- HEA South East Asia
- Iraq
- JWG
- LACRO
- Lebanon
- Mauritania
- Mali
- Mongolia
- Mozambique
- Nepal
- Philippines
- Solomon Islands
- Somrep – Nairobi
- Uganda
- UK
- WVI – Zurich
- Zambia
Customers – Columbia University

- Cambodia (In partnership with the Cambodian government)
- Indonesia (In partnership with the university of Jakarta)
- Sierra Leone
- Uganda
- Latin America (5 countries – about to start)
Other organizations using Smap

• City of Calgary
• Plan International – Bangladesh
• Sodexo – US
• World Wildlife Fund
• Many other more small organisations
Solution Overview

1) Create Survey

Create Survey → Upload to Server
Solution Overview
2) Collect Data

First download the survey into your phones or tablets

Second fill in the Surveys

Third Upload Results

Enumerator

Server

© Smap Consulting Pty Ltd
Solution Overview

3) View Results

Server

Export

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Use types of

• text
• integer
• decimal
• note
• date
• image
• Video
• Gps
• Audio
Partners

- EzPilot
- Nex34
- PREA
Standards

• ODK / Java Rosa
  – The Smap server supports ODK compatible phone applications such as odkCollect, geo ODK, our own fieldTask and Zarkman Mobile
  – Forms can be exported as xls Forms and then loaded into other odk Server and vice versa, forms from other servers can be loaded into Smap

• GIS – Shape files, use of a geospatial database

• Relational database to store data
Features – 1) GIS

- Data stored in a geospatial database (post gis)
- View points, polygons and lines
- Aggregate data by geographical areas
- Export to shape files
- Attach data in the Smap database as layers in a GIS
Features – 2) Online editor

- Create forms using an online editor
- Edit forms after data collection has started
- Track version of a data submission against form version
Features 3) Analysis

• View data as:
  – Maps
  – Graphs
  – Tables
  – Images
Features 4) Tasks

- Allocate tasks to users to complete a form
- Update previously collected data
Security

Port 443 only should be opened. Web server authenticates users before they reach application server.

Application Server authorizes access to the data by authenticated users.

Encrypt Using Mobile Phone Tools
REFERENCES AND DOCUMENTATION
Smap Support

• Google Discussion Group -
  https://groups.google.com/forum/#!forum/smap-suite
  – Ask and answer questions on the discussion group
Other Useful Smap Material

• News
    – Description of new features
    – Frequently Asked Questions
• You Tube Videos
  • [https://www.youtube.com/user/ianaf4you/videos](https://www.youtube.com/user/ianaf4you/videos)
• Documentation
  • [https://drive.google.com/folderview?id=0B5_SmpWIQYxvNExwSFV5X051Yjg&usp=docslist_api&ddrp=1#](https://drive.google.com/folderview?id=0B5_SmpWIQYxvNExwSFV5X051Yjg&usp=docslist_api&ddrp=1#)
    – Reference guide for form creation
    – Training Material
    – Example Surveys
    – This material, is on Google drive so you can synchronise the folder to ensure you have access to all documentation when offline
• Smap Web Site
    – Operations manual
    – Server Downloads
Additional Resources

• ODK
  – Discussion
    • https://groups.google.com/forum/#!forum/opendatakit
    • Very active discussions on using the XLSForm editor as well as collect and aggregate
  – Documentation
    • http://opendatakit.org/help/form-design/xlsform/
    • http://opendatakit.org/help/form-design/binding/
    • http://opendatakit.org/help/form-design/examples/
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