INNOVATIONS IN MONITORING VITAMIN A SUPPLEMENTATION PROGRAMS

Jessica Blankenship PhD
Use of Mobile Data collection for VAS Programming

The use of mobile phones improves the ability to collect, review and interpret data from surveys and to provide timely feedback to inform campaign strategies and routine distribution.

• Using mobile phones:
  – Collect survey data after VAS distribution events
  – Collect and review supportive supervision and routine monitoring data
  – Report tally sheet data

• Mobile technology is not a stand alone programme, it complements and enhances strong monitoring systems to provide timely data and encourage the use of data to inform programme strategy
Use of Mobile Data collection for surveys and routine monitoring

How it Works

1. **Design**
   Author surveys quickly and easily in Excel and have instant access on your Android phone. No advanced technical degree required.

2. **Collect**
   Easily distribute your survey on an Android device or on the web. Data connection not needed.

3. **Analyze**
   Visualize your data as it is collected, and gain understanding with our powerful insights tools.
CREATING SURVEY FORMS

SURVEYS ARE AUTHORED IN EXCEL...

...AND UPDATED TO SERVER AND PHONES
DATA CAN BE COLLECTED VIA WEBFORM OR MOBILE
ADVANTAGES OF MOBILE DATA COLLECTION FOR SURVEYS

• Quick turn around time from data collection to interpretation
  – No double data entry
ADVANTAGES OF MOBILE DATA COLLECTION FOR SURVEYS

• Quick turn around time from data collection to interpretation
  – No double data entry

• Improved data quality as surveys can be designed with constraint checks and skip logic
3. How many regions are there in Cameroon?
# Published Forms

Export, map, and view submissions.

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<thead>
<tr>
<th>Name</th>
<th>Submissions</th>
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<th>View</th>
<th>Download</th>
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ADVANTAGES OF MOBILE DATA COLLECTION FOR SURVEYS

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• Improved accountability by integrating GPS and time stamps into data collection
IMPROVED ACCOUNTABILITY BY INTEGRATING GPS AND TIME STAMPS INTO DATA COLLECTION

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ADVANTAGES OF MOBILE DATA COLLECTION FOR SURVEYS

• Quick turn around time from data collection to interpretation
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• Improved data quality as surveys can be designed with constraint checks and skip logic

• Improved accountability by integrating GPS and time stamps into data collection

• Improves ability to interpret data by adding geo-spatial level analysis
GEO-SPATIAL ANALYSIS OF COLLECTED SURVEY DATA

HKI VITAMIN A SUPPLEMENTATION (VAS) COVERAGE

- PEGS Data
  - 6-59m
    - 6-11m
    - 12-59m
    - 6-59m Female
    - 6-59m Male
    - Deworming 12-59m

- Administrative Data
  - National 6-59m
  - HKP PECs Region 6-59m
  - Difference Between PECs & Admin Data

- 2013 (Round 2)
  - Benue
    - VAS (6-11m): 53.7%
    - VAS (12-59m): 50%
    - VAS (6-59m): 50.7%
    - VAS (6-59m) Male: 50.9%
    - VAS (6-59m) Female: 50.5%
    - Administrative Catchment (6-59m): 92.6%
    - Administrative 6-59m: 65.7%
    - PECs Administrative A: 41.9%
    - Deworming (12-59m): 16.2%
GEO-SPATIAL ANALYSIS OF COLLECTED SURVEY DATA

HKI VITAMIN A SUPPLEMENTATION (VAS) COVERAGE

PECS Data
- 6-59m
  - 6-11m
  - 12-59m
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  - 59m Male
  - Deworming 12-59m

Administrative Data
- National 6-59m
- HKI PECs Region 6-59m
- Difference Between PECs & Admin Data

Helen Keller
INTERNATIONAL

2013 (Round 2)

Benue
- VAS (6-11m): 53.7%
- VAS (12-59m): 50%
- VAS (6-59m): 80.7%
- VAS (59m) Male: 50.9%
- VAS (59m) Female: 50.5%
- Administrative Catchment (6-59m): 92.6%
- Administrative 6-59m: 85.7%
- PECs Administrative Porter: -11.9%
- Deworming (12-59m): 16.2%
GEO-SPATIAL ANALYSIS OF COLLECTED SURVEY DATA

<table>
<thead>
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<th>Helen Keller INTERNATIONAL</th>
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<td></td>
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<tr>
<td>Difference Between PECs &amp; Admin Data</td>
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2013 (Round 2)

- **Benue**
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  - Administrative 6-59m: 85.7%
  - PECs Administrative Δ: -41.9%
  - Deworming (12-59m): 15.2%

Color Legend:
- 90–100%
- 80–89%
- ≤ 80%
GEO-SPATIAL ANALYSIS OF COLLECTED SURVEY DATA

HKI VITAMIN A SUPPLEMENTATION (VAS) COVERAGE

PECS Data
- 6-59m
  - 6-11m
  - 12-50m
  - 6-59m Female
  - 6-59m Male
  - Deworming 12-50m

Administrative Data
- National 6-59m
- HKI PECs Region 6-59m
- Difference Between
- PECs & Admin Data

Helen Keller International

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- Administrative 6-59m: 85.7%
- PECs Administrative Δ: -4.9%
- Deworming (12-59m): 16.2%

Colors:
- Green: 90-100%
- Yellow: 80-89%
- Red: < 80%
## GEOSPATIAL ANALYSIS OF COLLECTED SURVEY DATA

### HKI VITAMIN A SUPPLEMENTATION (VAS) COVERAGE

<table>
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<td>Administrative Data</td>
<td>Administrative 6-59m: 85.7%</td>
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#### PECS & Admin Data

- National 6-59m
- HKI PECs Region 6-59m
- Difference Between PECs & Admin Data

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**Map Details:**
- **2011 R2**, **2012 R1**, **2012 R2**, **2013 R1**, **2013 R2**
- **90–100%**, **80–90%**, **< 80%**

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**Legend:**
- **Red Circle:** Highlighted area with specific data points.
Geo-spatial visualization of Vitamin A coverage

Children missed are in green
In addition to collection of survey data, mobile technology has been integrated in the collection of routine monitoring data.

Use of mobile technology is advantageous due to:
- Speed of information transfer
- Allows data to flow both ways with feedback loops and triggered responses

Does not replace oversight systems, only facilitates the ability to use data to inform programmatic decisions
USE OF MOBILE TECHNOLOGY FOR TALLY SHEETS/ADMINISTRATIVE DATA
Use of structured SMS for tally sheets

<table>
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<th>Tally Sheet Vitamin A</th>
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<tr>
<td>+POST 235</td>
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<tr>
<td>Received 1000</td>
</tr>
<tr>
<td>Used 800</td>
</tr>
<tr>
<td>Returned 100</td>
</tr>
<tr>
<td>+V100 1200</td>
</tr>
<tr>
<td>Received 950</td>
</tr>
<tr>
<td>Returned 126</td>
</tr>
<tr>
<td>+V200 201</td>
</tr>
<tr>
<td>6-11M 201</td>
</tr>
<tr>
<td>12-59M 468</td>
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<tr>
<td>+VITA 1000</td>
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<tr>
<td>800 100</td>
</tr>
<tr>
<td>1200 950</td>
</tr>
<tr>
<td>126 468</td>
</tr>
</tbody>
</table>
• Aggregation of supervision data for review
  – Improved accountability of supervision
  – Triggered response to address immediate actions needed
• Stockouts
MAPPING OF SUPPORTIVE SUPERVISION VISITS
Bring your child for Vitamin A and Deworming to Child Health Days from 5th – 17th October at your nearest health facility at no cost.

Attention: Abdoulaye Diop qui a 6 mois aujourd'hui, doit se rendre au poste de santé. Cs Ouakam pour recevoir une dose de supplémentation en Vitamine A.
DATABASE OF KEY STAKEHOLDERS FOR COMMUNITY MOBILIZATION INITIATION

Add Reporter

Name:

Phone:

Submit

Current Reporters

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Michael Turek</td>
<td>18579287141</td>
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• Mobile phone technology improves the speed and accuracy of data collection for surveys and routine monitoring.

• Reduced turn around time from data collection to interpretation improves the ability of programme managers to use data to implement course correction in a timely manner.
HKI gratefully acknowledges the generous support of the Canadian Government for this work.