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**amp**

The Alliance for  
Malaria Prevention

EXPANDING THE OWNERSHIP AND USE OF MOSQUITO NETS

**amp** | The Alliance for  
Malaria Prevention



## AMP 2024 Annual Partners Meeting & Campaign Digitalization Meeting

### AMP Annual Partners Meeting

📅 19-20 Feb 2024

📍 Mövenpick Hotel  
& Residences

### Campaign Digitalization Meeting

📅 21-22 Feb 2024

📍 Mövenpick Hotel  
& Residences

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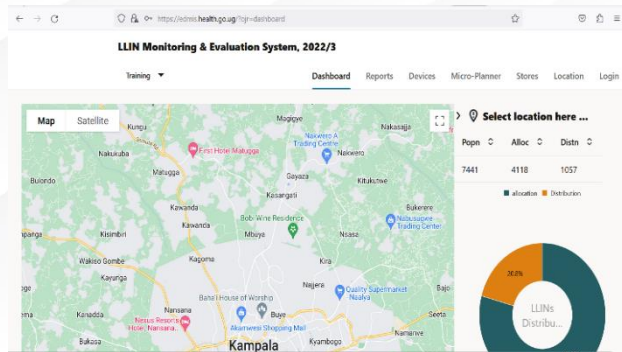
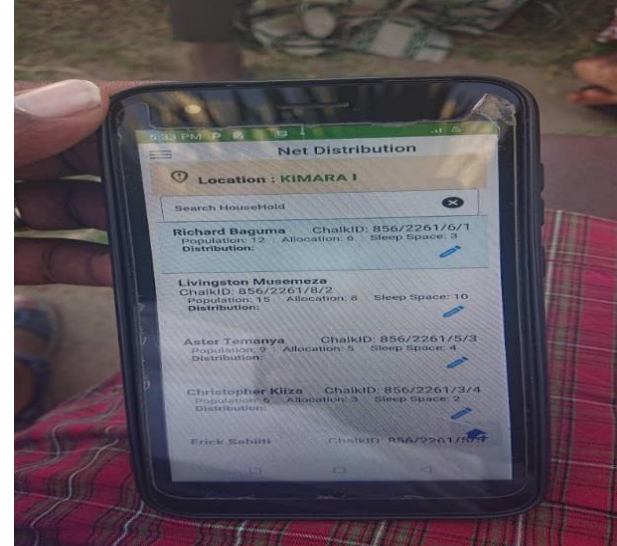
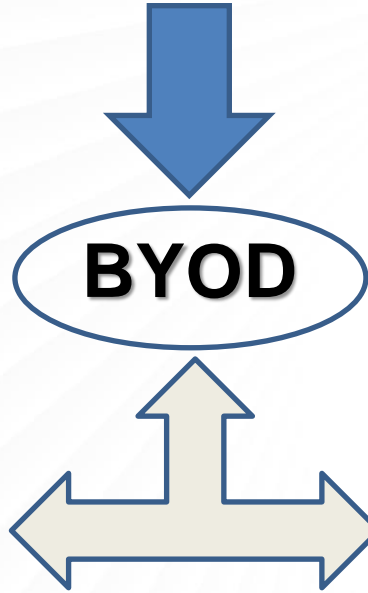
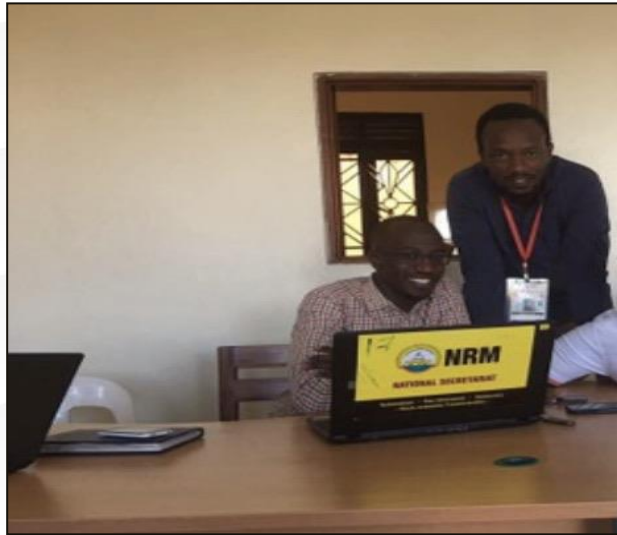


## BYOD for Digitalization of the ITNs UCC

- |                                   |                                  |
|-----------------------------------|----------------------------------|
| ❖ <b>Started<br/>2017/18</b>      | ➤ <b>Trial to minimize paper</b> |
| ❖ <b>Scaled up 2020</b>           | ➤ <b>C19 adaption</b>            |
| ❖ <b>Operationalized<br/>2023</b> | ➤ <b>Institutionalization</b>    |



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## Overview: Campaign Digitalization

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# EDMIS

(ELECTRONIC DATA MANAGEMENT INFORMATION SYSTEM)

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- **EDMIS** is a robust data collection and analysis tool that is purpose built. **Digitizing, automating and managing** the household-based datasets during the campaign .
- **The system has :**
  - online and
  - offline functionalities
- **works on**
  - Android mobile phones: Android 4.0
  - Laptop computers.



## Development & Testing

- Locally developed
- Locally piloted

## Funded:

- GF for 2017/2018 & 2020 & 2023 ITN campaign

## Quality assurance

- AMP
- AMF

## Key Features

1. Android mobile app
2. Web-based system
3. GIS/GPS integration
4. Individual household registration and distribution
5. 105% verification
6. Administration/Location Unit Assignment
7. Dashboards and custom reports
8. Access control
9. Audit logging



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# Customisation of BYOD for VHT/ DEC & Supervisors

## VHTs / DECs must:

- Own Android 4.0
- Ability to use smart phone
- Ability to read write English
- Must be CoRP
- Trainable to operate a smart phone
- Available for work beyond normal hours
- Physically fit for the exercise

## M&E Supervisors must:

- Own a personal laptop
- Ability to use computer-customised databases like Epidata
- Skills and proven ability to enter data at the required speed
- Experience in data entry
- Maintain a minimum acceptable level of erroneous entries



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## WHAT LED TO THE USE OF BYOD INSTEAD OF PROCURING DEVICES

- Insufficient ICT to cover the entire country
- Very expensive to procure ICT for the campaign
- High risk associated with retrieval processes
- Failure to repurpose ICT from
  - C19-IT equipment
  - Data science catalytic fund (eCHIS scale up)
- Effect of procurement lead time for the devices
- New device need comprehensive training for mastering use
- Difficult for asset management procedures
- Lack of an acceptable disposal plan
- Procurement conditions



## Some key achievements / best practices

- Existing digital investment
  - GF funding
  - UNICEF funding
  - PMI/USAID
- Minimal data loss
- Total government & donor support
- Option for both on-line & off-line exercise
- Over 35,000 users at the same time on web interface.
- Option for manual extraction & SMS
- Online training & demonstration
- Faster reconciliation
- Builds confidence DEC's





# Key Issues, Action Taken & Recommendations

Area	Issue	Action Taken	Recomm.
Data upload	Delayed data upload to central servers so as to ensure 100% accountability of nets.	<ul style="list-style-type: none"> <li>• <b>Data bundles</b> were given to VHTs to facilitate data synchronization</li> <li>• VHTs with <b>poor internet</b> connection were gathered in spots with faster internet connections to facilitate timely upload of data.</li> </ul>	<ul style="list-style-type: none"> <li>• VHTs to have data for <b>synchronization before registration</b> and distribution</li> </ul>
	Some <b>VHTs collected data in training or validation</b> mode and therefore does not contribute to the final accountability.	<ul style="list-style-type: none"> <li>• To move such data with helper of <b>developer to HHs &amp; distribution</b> model</li> </ul>	<ul style="list-style-type: none"> <li>• Web user management module should be developed <b>SOP</b> for training package</li> </ul>



# Key Issues, Action Taken & Recommendations

Area	Issue	Action Taken	Recom
ICT	Some VHTs phones <b>not compatible</b> to the version of the application.	<b>Standardized the ICT</b> to be deployed for the BYOD _EDMIS	<ul style="list-style-type: none"><li>• Map ICT needed for deployment during microplanning</li></ul>
	<b>Lost phones/laptop</b> during implementation leading to loss of data	<b>Precautions</b> taken on data loss though loss of a device	<ul style="list-style-type: none"><li>• <b>Daily data</b> submission should be encouraged</li></ul>
<b>Literacy levels</b>	Some VHTs <b>could not apprehend digitalisation package</b> for implementation	Encouraged such VHTs to <b>work with their children or friends</b> for continuous improvement	<ul style="list-style-type: none"><li>• Review selection criteria for <b>DEC instead of VHTs</b></li></ul>



# Key Issues, Action Taken & Recommendations

Area	Issue	Action Taken	Recomm.
Remuneration	Some DEC's withholding on the data for payment reasons	Streamlined timely payment	<ul style="list-style-type: none"><li>• Payment should be prepared in advance awaiting for data submission</li></ul>
	Use of allowance to hire devices	Discouraged borrowing of devices during the BYOD	<ul style="list-style-type: none"><li>• No borrowing of devices by the DEC's</li></ul>
System Support (EDMIS)	System down time	Recruited the data base and system admin for continuous system monitoring	<ul style="list-style-type: none"><li>• Identify competent persons for deployment</li></ul>



## Key Lessons Learnt

- BYOD is a cheap digital process due to utilisation of existing tools
- It's very easy for institutionalisation considering the local capacity
- It promotes more technology to match the international standards
- It's has minimal errors during data reconciliation especially when training was robust
- It attracts more funding considering minimal budget gaps
- Special circumstances might need paper based registration & distribution
- It needs a simplified application to ease timely learning
- Data bundles can be used for other purposes rather than the campaign



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# THANK YOU