

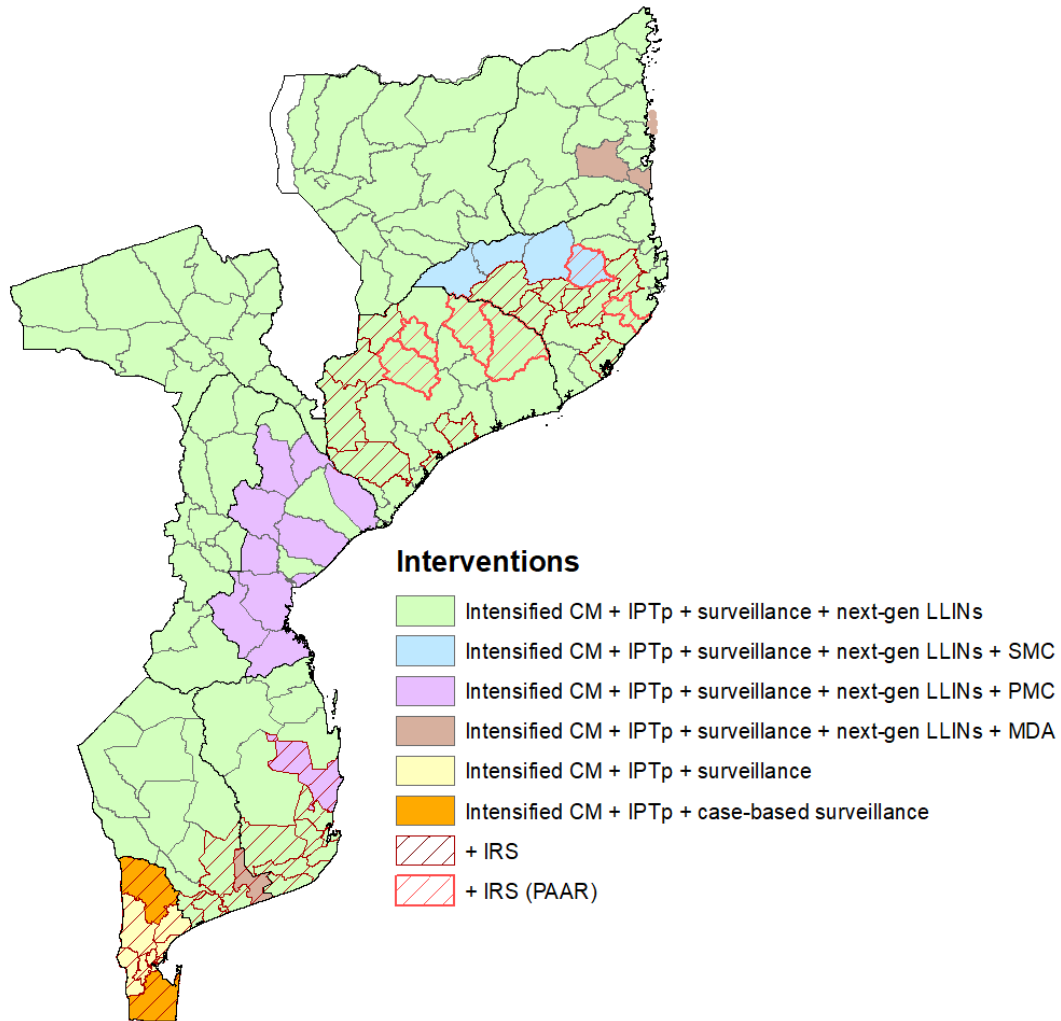


Vision for integrated campaign digitalization

Alliance for Malaria Prevention Meeting
Nairobi, Kenya
May 2023



Many different malaria campaigns are conducted in Mozambique with support from partners on the ground



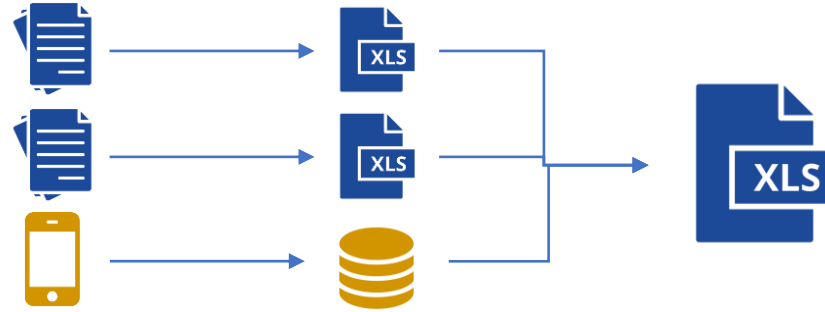
Campaign	Provinces
LLIN mass campaign	Cabo Delgado, Niassa, Nampula, Zambezia, Tete, Manica, Sofala, Inhambane, Gaza
IRS	Nampula, Zambezia
	Inhambane, Gaza, Maputo
	Cabo Delgado <i>(time-limited emergency)</i>
SMC	Nampula <i>(likely expansion in new strategic plan)</i>
MDA	Cabo Delgado <i>(emergency)</i> , Gaza <i>(operational research pilot)</i>
	<i>Routine operational role under discussion in new strategic plan</i>



These campaigns have all historically used different systems to collect, manage, and visualize the data



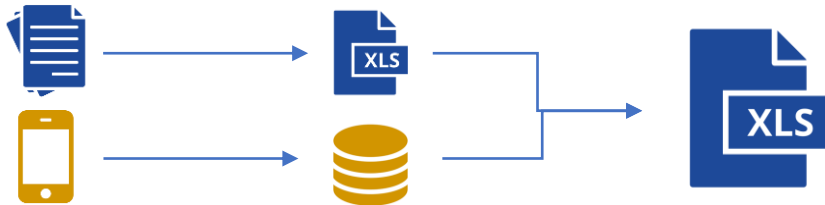
PIDOM (IRS)



CCU (LLINs)



MDA



SMC



Campaign performance

Paper-based campaigns limit the effectiveness of campaigns – decision-makers cannot access and visualize data quickly enough to identify:

- Identify areas of **poor coverage**
- Monitor **team performance**
- Track potential **stock-outs**

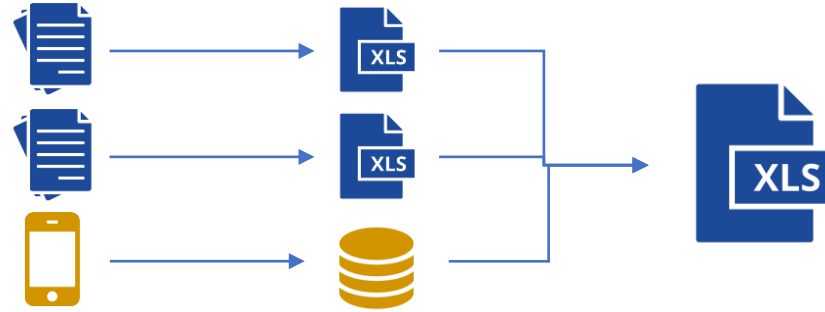
This prevents campaigns from achieving maximum coverage



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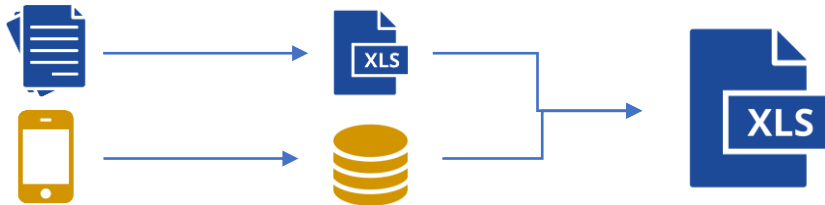
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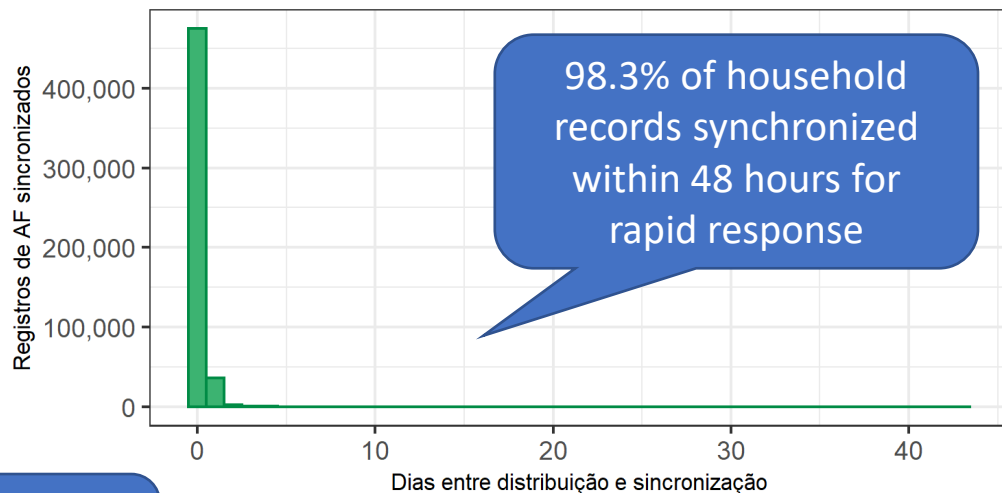
Operational inefficiencies

Using **different tools for each campaign** leads to:

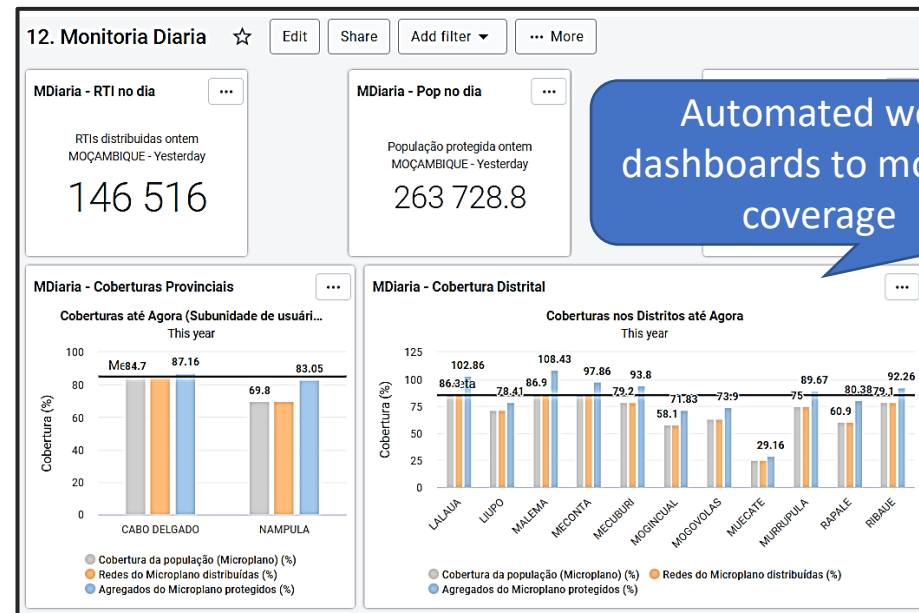
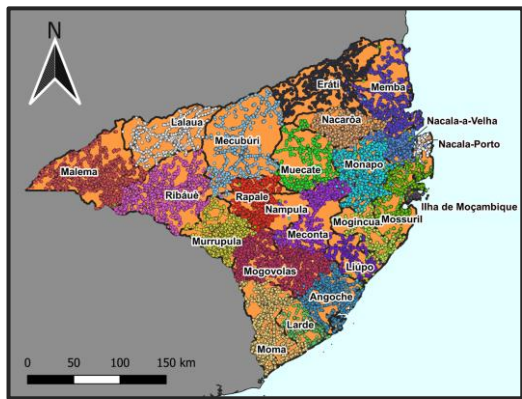
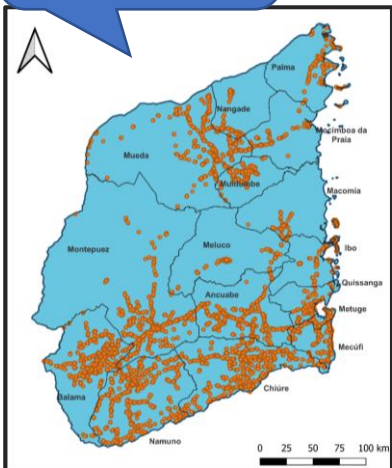
- **Delays in accessing combined data**
- **Duplication of effort and missed opportunities due to no sharing of common goods** like enumeration data, microplanning templates, aldeia lists
- **Inconsistent and mixed capacity-building** for staff and end users
- **Difficulties with iMISS data integration** as partners independently introduce tools
- **No hardware coordination** due to independent procurements and implementations



These CCU digitization efforts have led to substantial gains in campaign M&E efforts



Geo-located households



Automated web dashboards to monitor coverage

85.6% of target population covered in LLIN provinces so far

Coverage Definition	Cabo Delgado	Nampula
Population targeted	84.5 %	86.7 %
Population found	89.6 %	97.2 %



While iMISS solves the data integration challenges, we desire a system suited for more advanced campaign management functions

User, team and hierarchy preparation

Required before EVERY campaign but can be challenging in DHIS2

- X Managing user accounts and teams in bulk (thousands of records)
- X Managing team assignments to aldeias, administrative posts, and warehouses
- X Complicated hierarchy updates for warehouses

Outputs and analytics

Limitations in how data can be presented

- X Connect micro plans with delivery data
- X Cannot connect stock data across incoming/outgoing shipment reports
- X Cannot easily disaggregate data by username or team assignment for tracking performance
- X Limited offline analytics available in the mobile app

This means implementers must always rely on developers to complete preparatory steps ahead of each campaign.

This also means **many design workarounds are required for DHIS2** to handle certain campaign workflow. These workarounds are not intuitive and require advanced technical skills to manage.

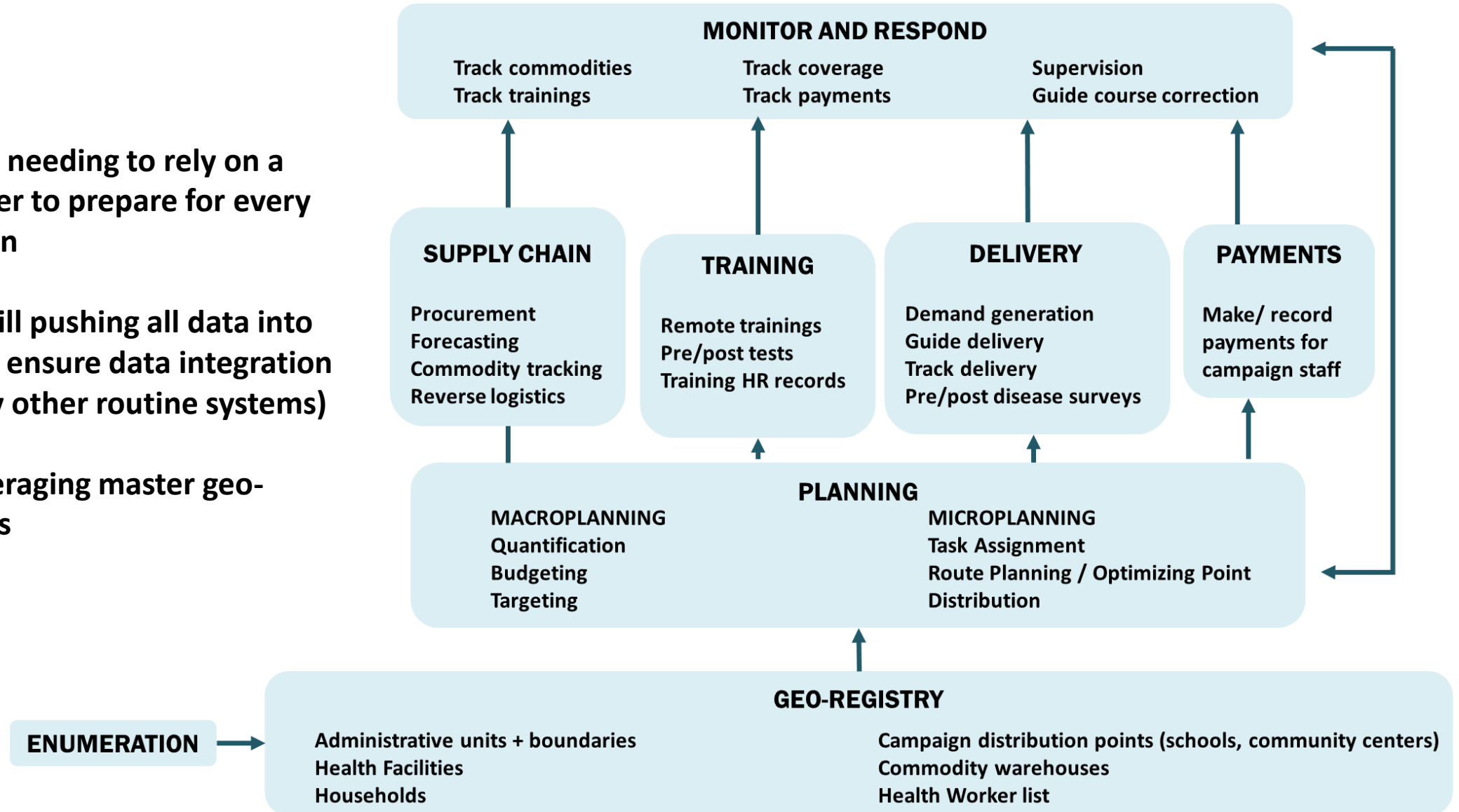
Things DHIS2 cannot do:

- X Manage payments to campaign workers
- X Training delivery and/or e-learning
- X Maintain active registries (e.g. campaign staff, enumerated households)



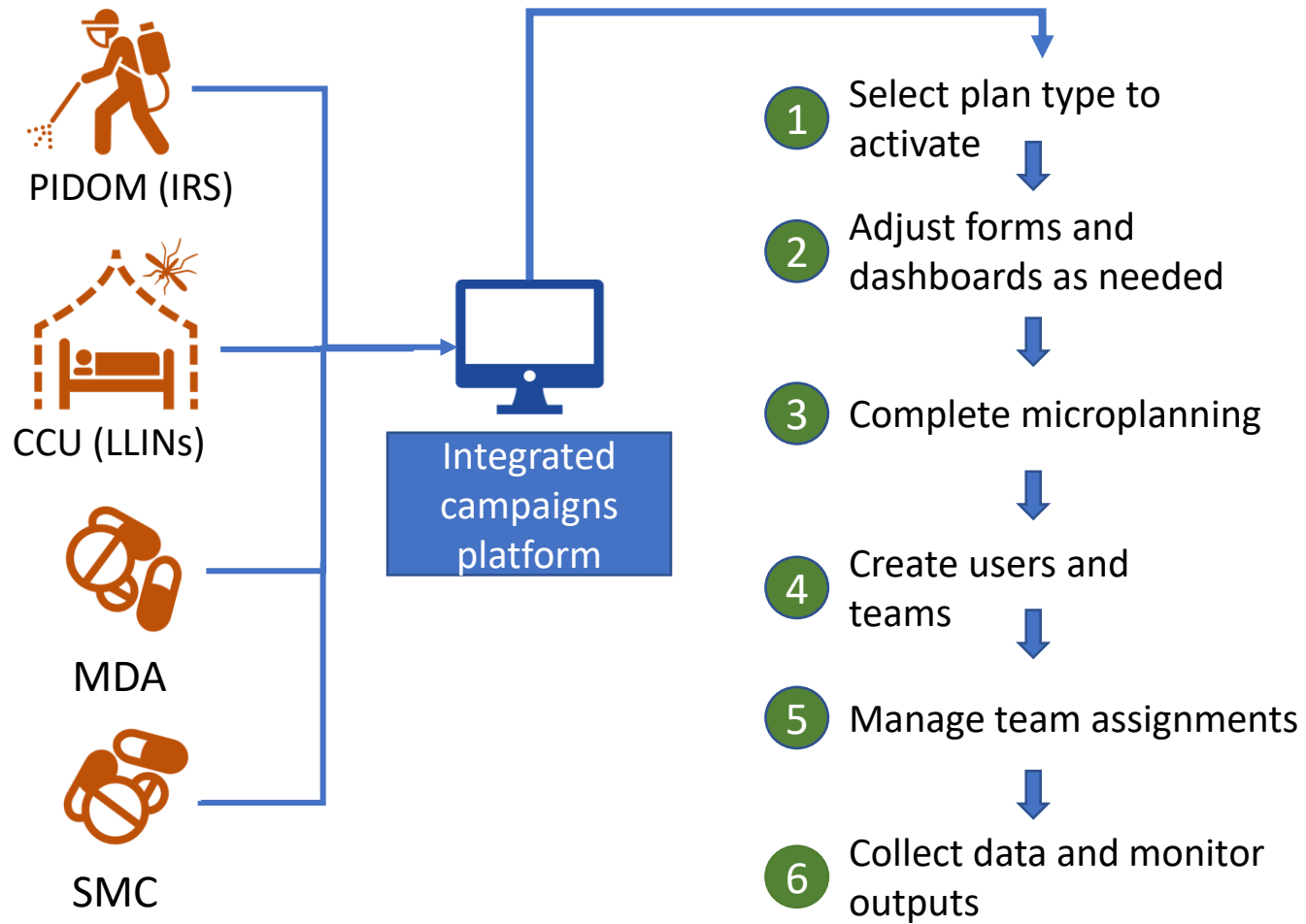
The ideal end-to-end campaigns platform allows campaign implementers to seamlessly manage all necessary components of a campaign

- ✓ Without needing to rely on a developer to prepare for every campaign
- ✓ While still pushing all data into iMISS to ensure data integration (and any other routine systems)
- ✓ And leveraging master geo-registries





The NMCP envisions a common, user-friendly tool that enables campaign managers to create, execute and monitor campaigns seamlessly



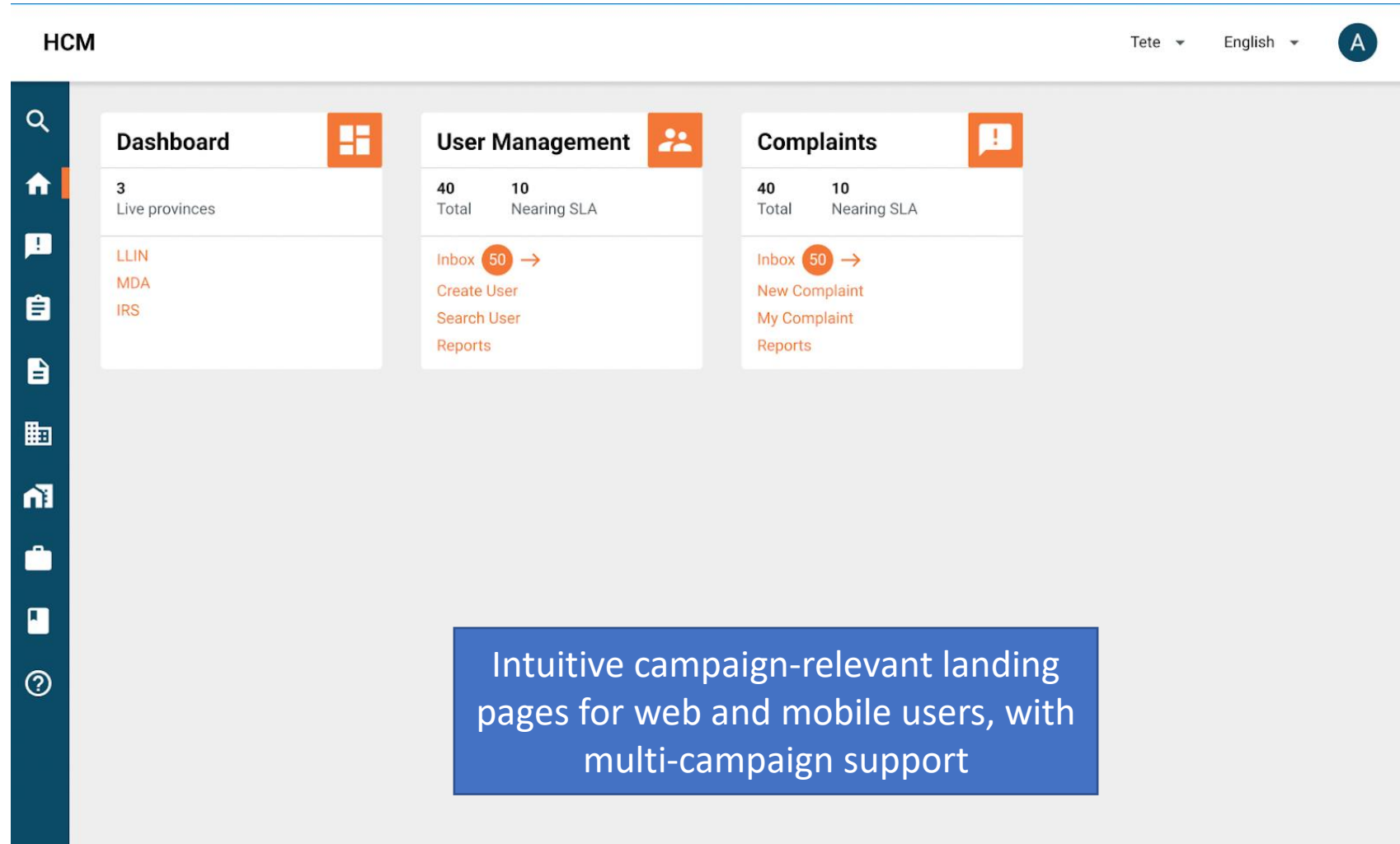
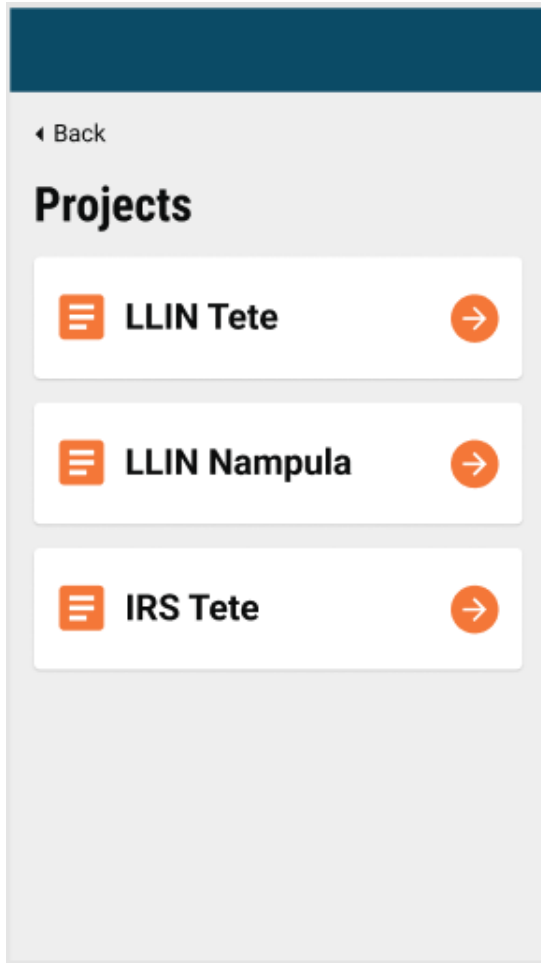
Efficiency gains

- Select from existing **campaign registries with pre-configured forms and dashboards** – simply need to “activate” a campaign
- Access and utilize **built-in enumeration data** from previous campaigns, including geo-location
- Utilize **built-in validated master lists** for aldeias, warehouses, etc.
- **Re-use e-learning training materials** embedded within the platform
- Manage **campaign worker registries** and track/manage training attendance, payments, and more

Through a user-friendly interface designed specifically for campaigns, without the need for advanced technical skills

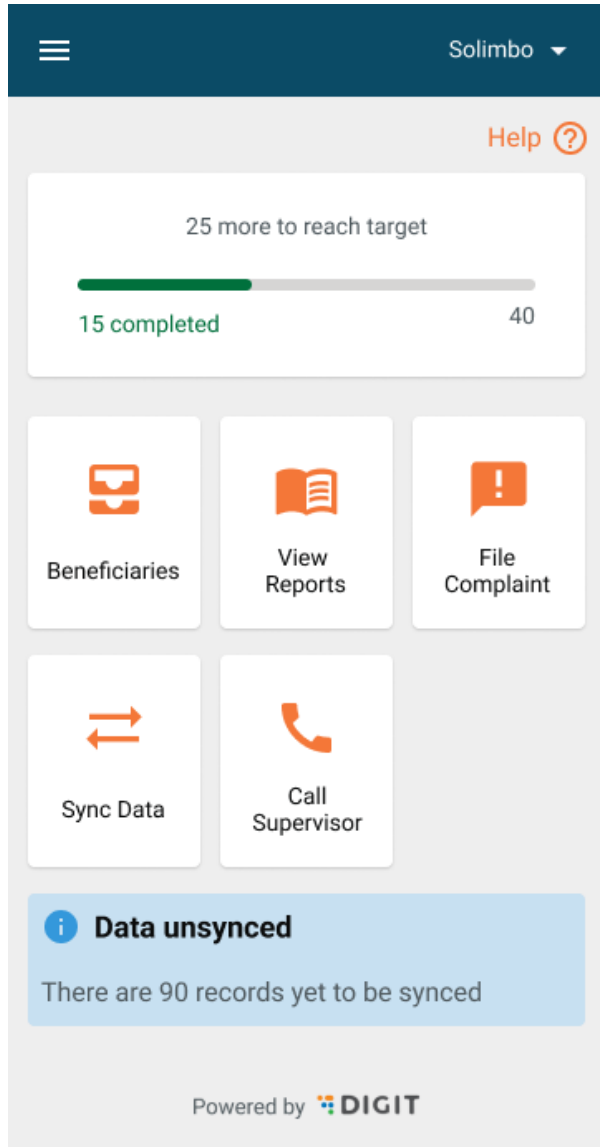


The user interface and experience will be fit-for-purpose and pressure tested extensively with campaign workers





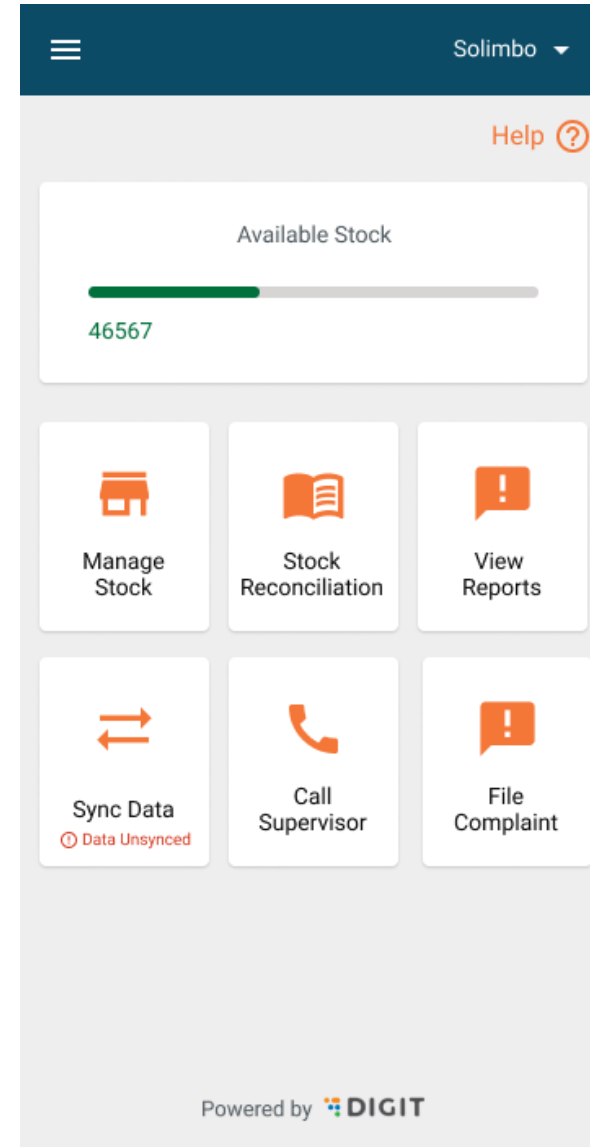
The user interface and experience will be fit-for-purpose and pressure tested extensively with campaign workers



Registration and Distribution Team



Warehouse team





The user interface and experience will be fit-for-purpose and pressure tested extensively with campaign workers

Solimbo

Back Help

Search Households

535 No. of Households Registered 756 No. of Bednets Delivered

Jose

Jose Antonio Open
Delivered
4 Members
219 / Pemba (200mts)

Beneficiary	Age	Gender
Jose	45	Male
Maria	35	Female
Julianne	15	Female
Sergio	10	Male

Jose Arsenio Open
Not Delivered
8 Members
220 / Pemba (200mts)

Register New Household

Solimbo

Back Help

Household

Edit Household

Household Head: Joseph Sergio
Administrative Area: Solimbo
Member Count: 04

Joseph Sergio (H) Edit
Male | 40 years

Maria Edit
Female | 35 years

Julianne Edit
Female | 15 years

Sergio Edit
Male | 10 years

+ Add Member

Deliver Intervention

Registration and Distribution Team

Warehouse team

Solimbo

Back Help

Manage Stocks

Record Stock Receipt →
Create records for stock received at the warehouse

Record Stock Issued →
Create records for stock sent out from the warehouse

Stock Returned →
Create records for the stock returned to the warehouse

Stock Damaged →
Record the list of resources damaged during campaign operations

Stock Loss →
Record the list of resources damaged during campaign operations



The mobile app also includes built-in and decision-relevant outputs tailored to a user's campaign role

Screenshot of the mobile app showing the 'Reports' screen with the 'Leaderboard' tab selected. The screen displays a progress bar for 'Households Registered' (450/1000 Completed) and a list of five users with their completion percentages.

User	Completed
User 1	77/100 completed
User 2	70/100 completed
User 3	67/100 completed
User 4	60/100 completed
User 5	56/100 completed

Screenshot of the mobile app showing the 'Reports' screen with the 'Data' tab selected. It features a bar chart titled 'Projected Vs Registered' with a target of 200, and a table below showing 'Households Registered' and 'Bednets Distributed' for dates from 06 July 2022 to 10 July 2022.

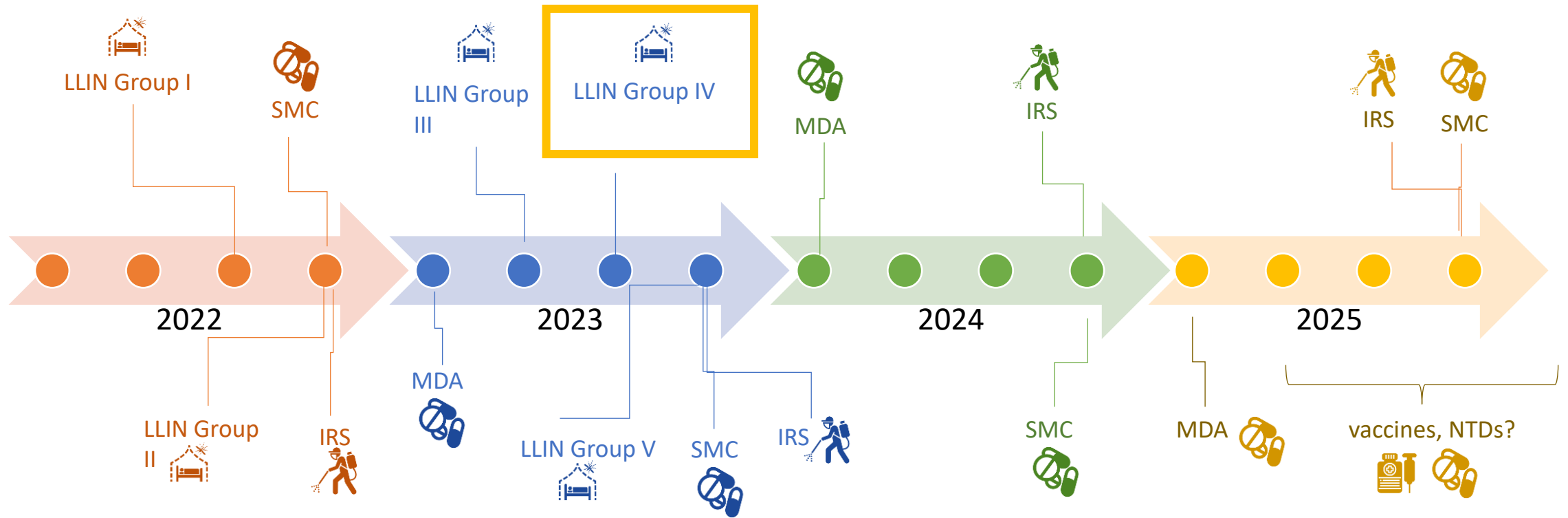
Date	Households Registered	Bednets Distributed
10 July 2022	383	200
09 July 2022	373	38
08 July 2022	257	0
07 July 2022	300	23
06 July 2022	266	3

Screenshot of the mobile app showing the 'Stock Received' screen with a table listing the date, units received, and the source warehouse. A 'Back To Home' button is visible at the bottom.

Date	Units Received	Received From
10 July 2022	100	Warehouse 1
09 July 2022	200	Warehouse 2
08 July 2022	250	Warehouse 3
07 July 2022	50	Warehouse 4
06 July 2022	400	Warehouse 7
05 July 2022	800	Warehouse 4
04 July 2022	1200	Warehouse 3



The tool will first be piloted in Tete province for the LLIN campaign, with subsequent scale-ups targeting MDA, SMC and IRS workflows



User and field testing are currently underway in preparation for the Tete pilot, after which pilot results will be analyzed to guide the roadmap

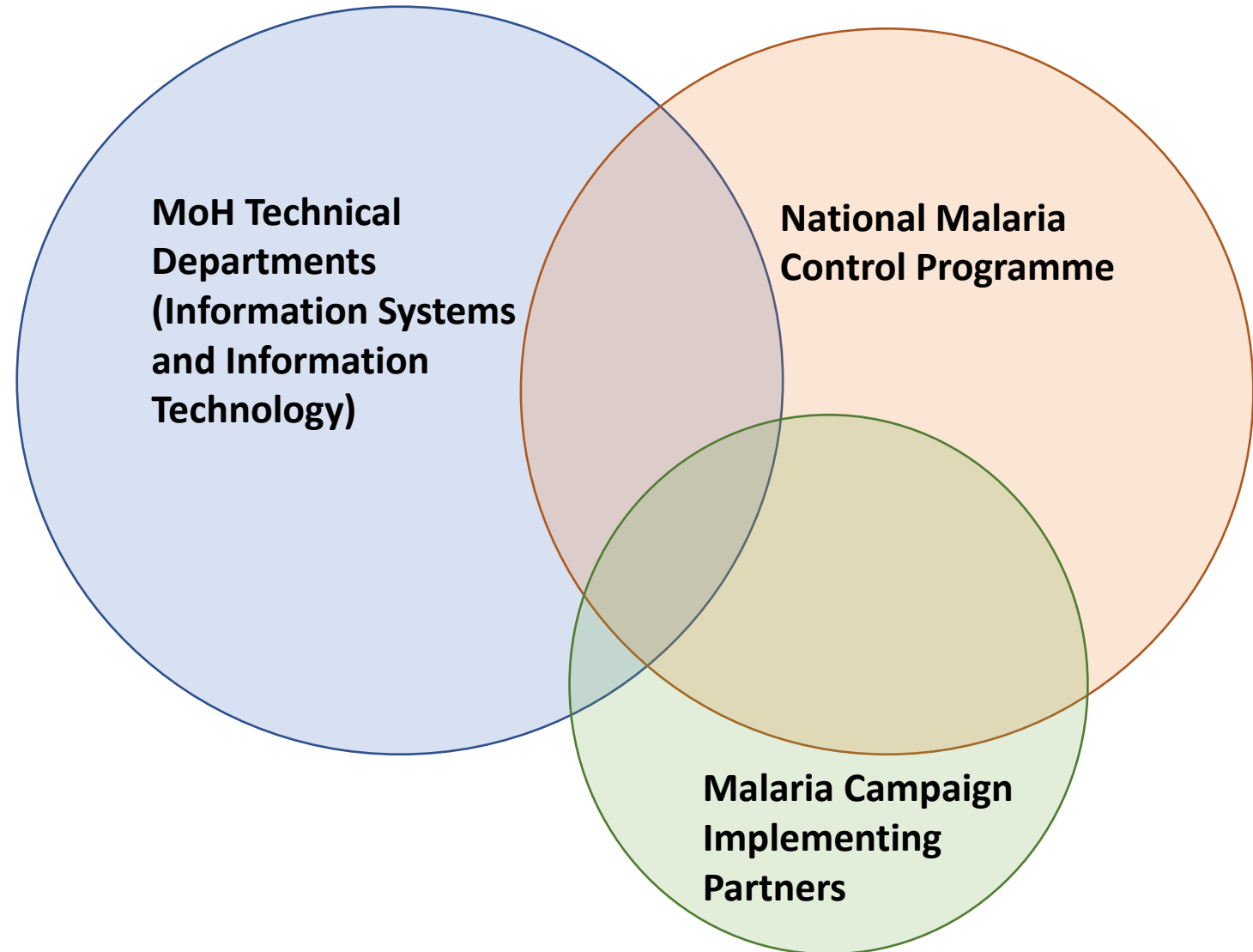
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2024	2025
Product v1 design finalized	█													
Product v1 development	█	█	█	█	█	█								
User Testing				█		█								
Field Testing					█									
Training							█							
Tete pilot								█						
Monitoring and evaluation								█	█					
TWG meetings					█	█	█	█	█	█	█	█	█	█
Scale-ups (TBC)										█	█	█	█	█
Product v2, v3, onwards										█	█	█	█	█



A Campaigns Digitization taskforce is being established to govern technical and operational aspects of the digitalization

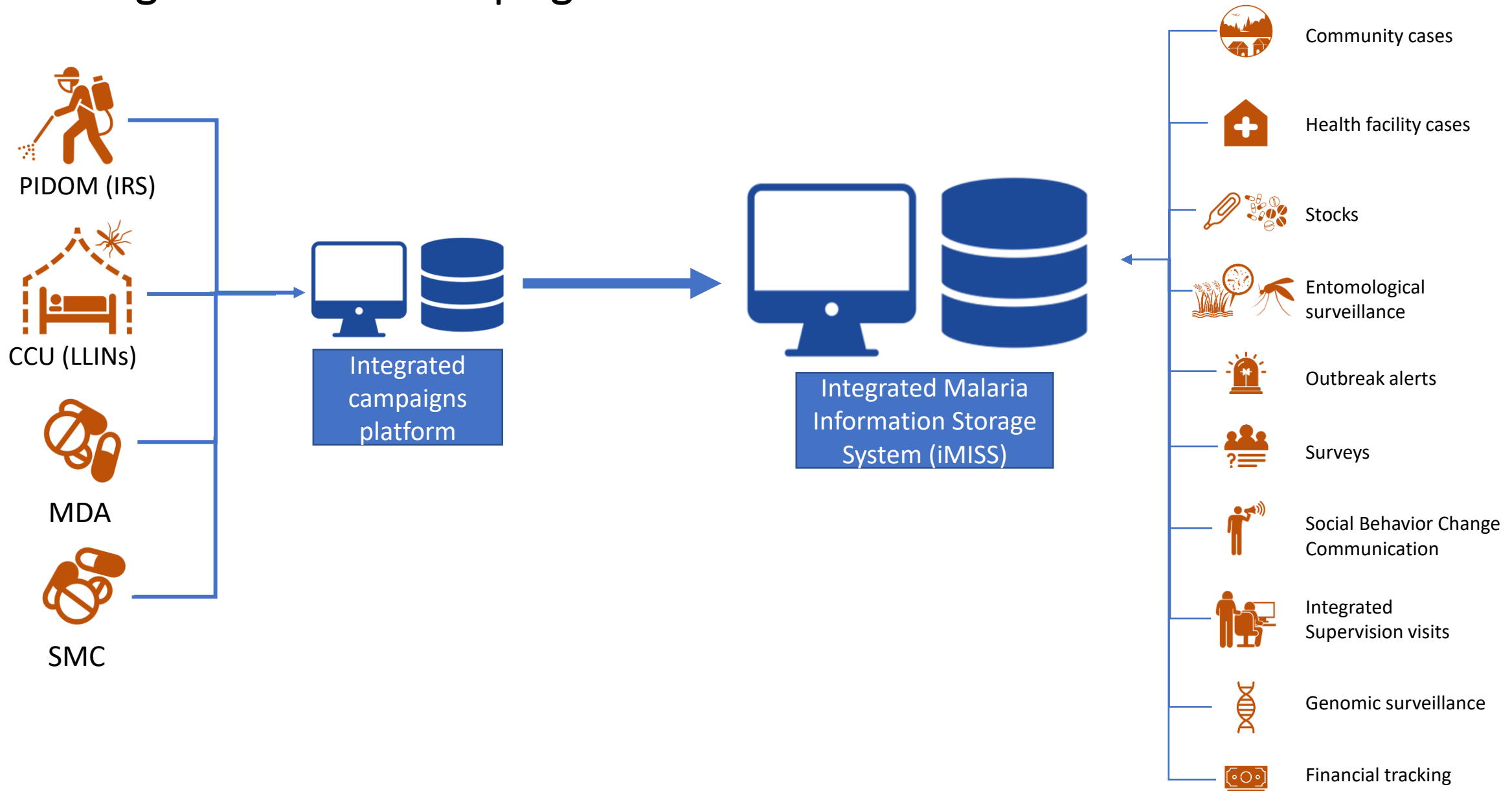
Taskforce mandate:

- Evaluate **pilot results**
- Make decisions on **scale-ups** (which campaigns to target and when)
- Provide input on **priority roadmap features** in subsequent versions of the tool
- Coordinate on tool **technical configuration-readiness** ahead of each campaign (form and dashboard updates)
- Coordinate on **operational implementation-readiness** ahead of campaigns (user accounts, device logistics, HelpDesk readiness)





Designing for interoperability from the start will enable seamless integration of rich campaign data into iMISS



Going forward, important challenges remain to ensure systems are sustainable and high-quality data are available to make decisions at all levels

Hardware and IT costs. Funds for system maintenance and replacing hardware needed for sustainability post-BMGF

Routine data use costs. Convening data review meetings and targeting supervision visits to improve care & reporting require dedicated budgets for people, fuel

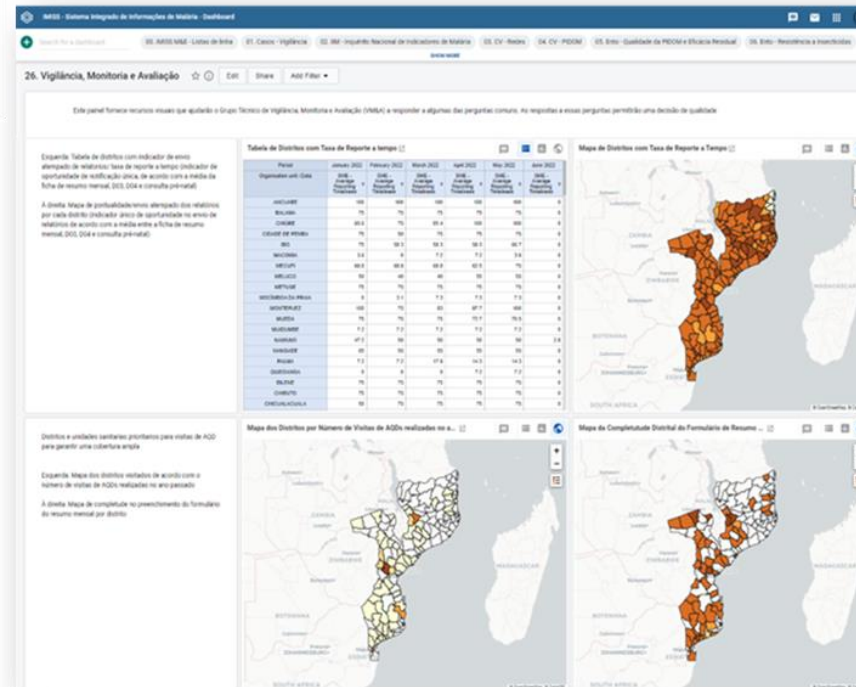
IT capacity & infrastructure. Cross-cutting tech departments (DIS and DTIC) support the entire MoH with small teams and a broad mandate to support many different systems

Training. Continual need to refresh staff on system use

Partner/donor cooperation. Avoid future fragmentation and use established gov-owned systems

Linked systems. Need for routine investment in updating/maintaining linked systems including the common georegistry

Governance. Many of these issues are bigger than the malaria program and require high-level buy-in and commitment





Obrigado

