Digital tools for malaria elimination



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WHO Malaria Module





What is in a toolkit module: Malaria

1. Guidance manual

Surveillance in burden reduction and elimination settings

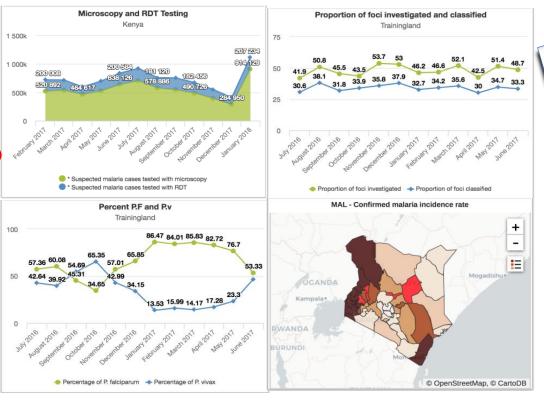
- Burden reduction
 - Morbidity, mortality
 - Prevention
 - Treatment
- Elimination
 - Case investigation and classification
 - Foci investigation and classification

Strengthen aggregate and case-based data

- Improve data quality
- Improve data analysis and use
- Data driven decision making

WHO malaria recommendations: standard data elements and indicators are built into DHIS2 for the national HMIS

2. Analytic Dashboards



3. Training materials



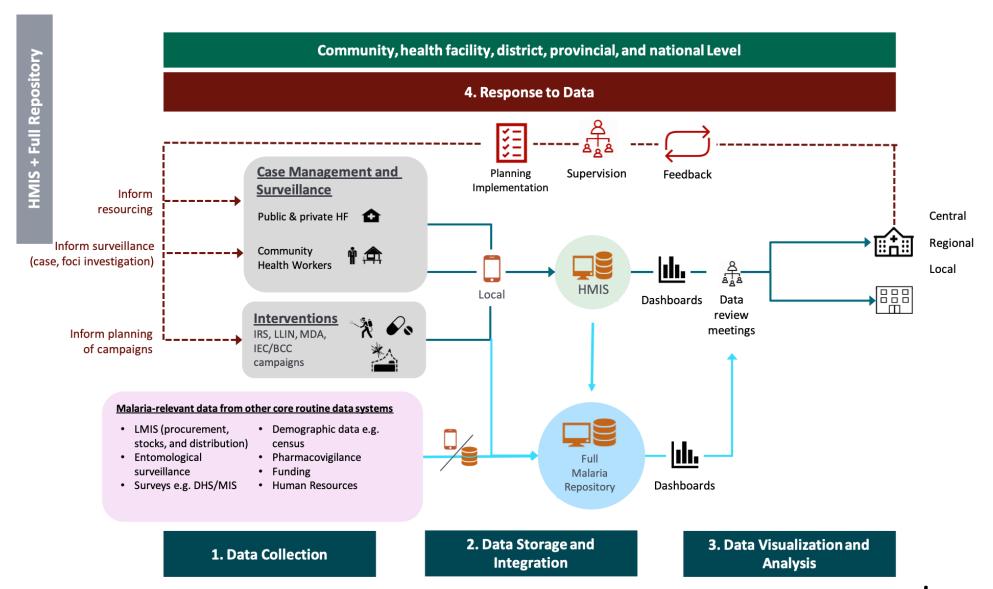
- Guidance
 - English/French
- Exercises
 - Tutors' Guide
 - Learner's Guide



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Ideal Surveillance System







Why digital tools for case-based surveillance?



- A landscape assessment of surveillance systems conducted in 16 countries from 2015-16 found that: most health information systems for surveillance had several shortcomings and provided inadequate support for malaria elimination.
- No single information system could facilitate the data collection and analysis of case investigations, focus
 investigations, response interventions, and support task management. Gaps existed in:
 - Data analytics and visualization, particularly on dashboards and geospatial visualization
 - integrating and linking different types of malaria data
- Mobile surveillance tools
 - did not correspond to the operational workflows of malaria health workers and health facilities,
 - were not built appropriately for low infrastructure settings,
 - and were difficult to configure and customize to different countries

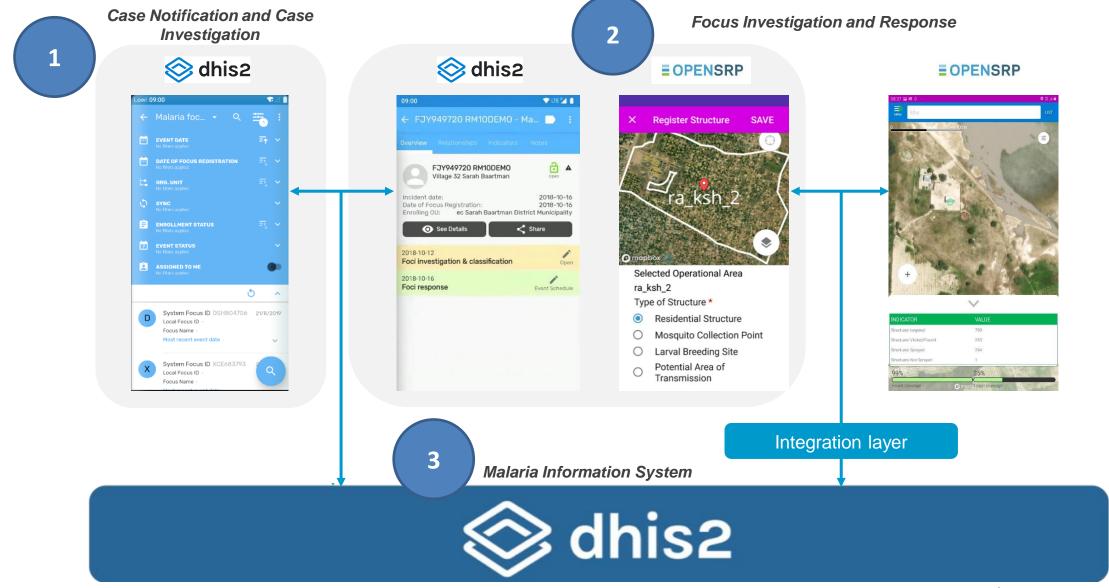
Enhancement and development of existing and new digital solutions to address these gaps in information systems and mobile tools





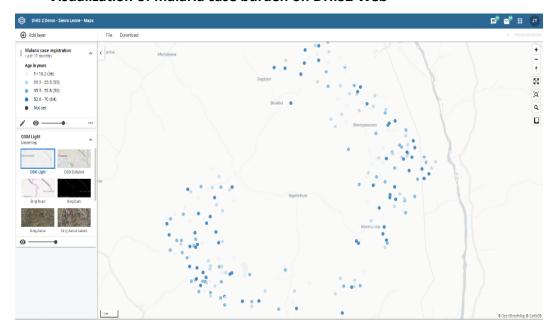
A suite of digital tools developed to address these problems, it was piloted in 4 countries over a period of three years and an M&E framework was developed as part of the tools assessment.





Malaria elimination tools features

Visualization of malaria case burden on DHIS2 Web



Viewing case index information for a particular focus, while collecting or monitoring data on OpenSRP





Viewing relationships between cases and case to focus in the DHIS2 Android Capture app-based focus investigation and response app





Interactive map to navigate through tasks and in-app indicators to monitor intervention rollout in real-time on OpenSRP







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WHO case-based malaria package



Patient registration (patient Id)

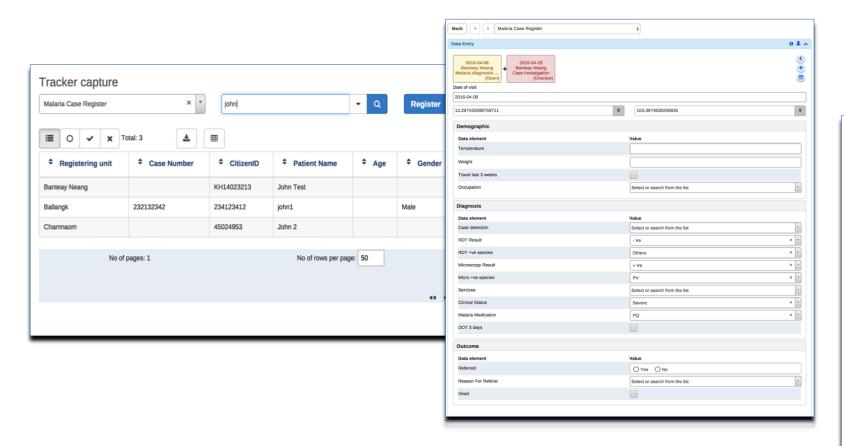


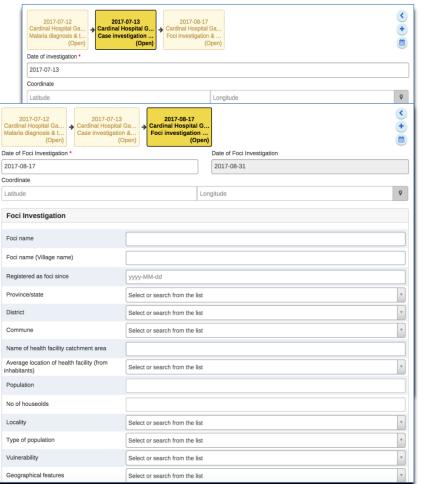
Diagnosis, confirmation and Treatment



Case investigation

Foci investigation





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Next steps



- Make the digital tools available to countries for adoption to augment surveillance processes in malaria elimination settings.
- Disseminate these tools through clear communication across stakeholders.
- Work with partners and donors to help countries in adopting, using and maintaining these tools.
- Continuously monitor uptake of tools and implement any necessary improvements.

