

# Let's stop Malaria!



## Who we are

Greenmash is a trusted technology partner for global health organisations. Our services include a range of ready-made healthcare information management solutions, which can be quickly deployed anywhere in the world at the national, regional or community level.

## What we do

What we do is build and deploy robust, scalable, affordable, and simple to use technology solutions for regions in need of reliable medical information systems. We deploy solutions on the Mango mobile application platform which is flexible, easy to use, and easy to support in isolation or when integrated into existing systems such as DHIS2.

We have helped thousands of health experts across a range of health areas – including malaria, HIV/AIDS, TB, neglected tropical diseases, maternal and child health, nutrition, family planning, and reproductive health. We aim to optimise data collection, reporting accuracy, and in turn improve decision making.

## Improving Malaria prevention and control using mango

Mango offers a rich set of core capabilities to help improve malaria testing, treatment, and tracking information management processes. We have deployed Mango powered applications to support multiple Malaria programs across sub-Saharan Africa.

## Diagnostic testing

*“The scale-up of diagnostic testing presents an unprecedented opportunity to improve the accuracy of malaria surveillance data, which in turn helps ministries of health to better direct available resources to where they are most needed”*

*World Health Organisation T3 Initiative Report (2012)*

### **A Mango powered application can support significant improvements for the diagnostic testing of Malaria including:**

- ✓ Ensuring that every suspected malaria case is confirmed by microscopy or RDT prior to treatment.
- ✓ Ensuring adequate supply of diagnostic tools at the health facility and health zone level.
- ✓ Ensuring all diagnostic tools are quality-assured across all levels of the health system.
- ✓ Simplified registration of diagnostic tests for individual cases
- ✓ Simplified classification of malaria severity for treatment purposes
- ✓ Simplifying and facilitating the rapid scale-up of diagnostic testing processes.
- ✓ Simplifying the management of diagnostic testing data for audit and reporting purposes.
- ✓ Simple integration with other health zone efforts, such as management of other febrile illnesses.
- ✓ Integration with inventory and supply-chain systems to ensure adequate availability of diagnostic tests.
- ✓ Enable malaria program managers to predict disease outbreaks, identify trends in commodity consumption, and help to address and avoid the the issues of drug resistance. ▶

*“We were extremely happy with the performance of the greenmash project management team and their technology. We are convinced that this very flexible and innovative platform, specifically designed and built to work in the African environment, is a major breakthrough in eliminating the long standing problem of unavailability of essential medicines at the health facility level.”*

*Jim Barrington  
Program Director  
SMS for Life*



## Treatment

*“Malaria is an entirely preventable and treatable disease ... However, despite the availability of effective, high-quality antimalarials, millions of people in endemic countries still lack ready access to appropriate treatment.”*

*World Health Organization T3 Initiative Report (2012)*

**Mango can help Malaria programs in their efforts to Treat patients in endemic countries. Key improvements include:**

- ✓ Ensuring every confirmed case is promptly treated with a quality-assured antimalarial medicine.
- ✓ Optional localised instructions and guidelines to help local health workers provide the correct treatment for every malaria case.
- ✓ Visibility of supply-chain systems to ensure adequate availability of antimalarial medicine – such as quality-assured ACTs and intravenous / intramuscular artesunates.
- ✓ Simplifying the routine monitoring of therapeutic efficiency for all treatments.
- ✓ Enable national malaria control programmes to quickly gain insight into treatment rates, treatment effectiveness, stock levels, and other ground-level issues.



 Initial Malaria tests are carried out using rapid diagnostic. (similar to a pregnancy test). mango is used to track tested patient numbers.

 Mango is deployed to measure and track the medicine stock and treatment protocols. Correct treatments are administered and treated patients are tracked and numbered.

 Mango's reporting process is aiding with the elimination of Malaria. Mango's powerful reporting is capable of detecting the eventuation of an epidemic!

## Tracking

*“WHO urges malaria-endemic countries to strengthen their disease surveillance health information and vital registration systems, so that ministries of health can better identify public health priorities and design effective health interventions.”*

*World Health Organization T3 Initiative Report (2012)*

**A mango-based solution offers these key improvements to Tracking of Malaria:**

- ✓ Easing the disease surveillance burden for malaria control and elimination.
- ✓ Simplifying and facilitating the rapid scale-up of disease surveillance processes.
- ✓ Simplifying the identification, registration, tracking, and reporting of malaria cases from the community level upwards.
- ✓ Enabling the efficient recording and tracking of suspected, presumed, and confirmed malaria for individual cases at the health facility level.
- ✓ Simplify, speed up and improve the accuracy of reporting to all stakeholders including donors.
- ✓ Mango can scale vertically and horizontally and easily integrate with other programs and management information systems including DHIS2.