



hamzah fkmunsri <hamzah@fkm.unsri.ac.id>

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## Analysis of the Electronic Implementation of A Malaria Surveillance Information System (E-SISMAL) in the Lahat District

2 messages

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**Health Informatics 2021** <healthinformatics@meetingsint.com>  
To: hamzah@fkm.unsri.ac.id

22 November 2021 at 13:28

Dear Dr. **Hamzah Hasyim**

I'm honored to invite you to speak at **Medical Informatics 2021** as a **Webinar (Online)**, an independently organized Conference series event happening in **December 13-14**.

**Medical Informatics 2021** is a Two days event being curated by Experts and Specialists in the field of Healthcare and Informatics. Young and brilliant researchers, business delegates, Healthcare Industries, Directors of Association and Societies with an audience of about [50-70] online. Our goal is to bring together bright minds to give talks that are mainly focused on **Healthcare and Informatics** and on a wide range of subjects, to foster learning, research, patient care and provoke conversations that matter.

Your talk will be live and recorded to be hosted on the YouTube channel. Your talk could be up to 30 minutes and on any themes or topics you're interested in. You can find the list of available sessions on our website: <https://healthinformatics.conferenceseries.com/>

We believe your voice would be a critical addition to the stage. Please let us know whether or not you'd be interested in speaking.

Thank you for reading, and we very much look forward to hearing from you.

Sincerely,

Harry Harrison| **Medical Informatics 2021**

Program Director| [35 Ruddlesway, Windsor, Berkshire, SL4 5SF](#)

Email: [healthinformatics@meetingsemail.com](mailto:healthinformatics@meetingsemail.com)

WhatsApp: +447481355358

---

**hamzah fkmunsri** <hamzah@fkm.unsri.ac.id>  
To: healthinformatics@meetingsemail.com  
Cc: healthinformatics@meetingsint.com

3 December 2021 at 07:23

Dear

Harry Harrison| **Medical Informatics 2021**

Program Director| [35 Ruddlesway, Windsor, Berkshire, SL4 5SF](#)

Email: [healthinformatics@meetingsemail.com](mailto:healthinformatics@meetingsemail.com)

WhatsApp: +447481355358


Kindly see my oral abstract as an attachment.

Best,

Hamzah Hasyim

[Quoted text hidden]

---

 **medical-informatics-2021-56032-abstract-hamzah.docx**  
190K



hamzah fkmunsri <hamzah@fkm.unsri.ac.id>

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## Abstract Review Process |MEDICAL INFORMATICS 2021

1 message

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**Health Informatics 2021** <healthinformatics@meetingsint.com>  
To: hamzah fkmunsri <hamzah@fkm.unsri.ac.id>

3 December 2021 at 11:56

Dear Dr. Hamzah fkmunsri,

Greetings from Medical Informatics 2021

Thank you for submitting your abstract entitled "**Electronic Malaria Surveillance Information System (E-SISMAL) Android-Based Mobile: An Explorative Research**". We hereby confirm and acknowledge the same. Your abstract will be reviewed by our International Screening Committee and you will receive the status of your paper screened for Oral presentation by 24 hours. We have assigned a number (HCMI-ABS-NOV-122) to your abstract always quote this number in any further correspondence with the Organizing Committee.

Wishing you good Luck!

Kind Regards  
Harry Harrison  
Program Director | Medical Informatics 2021  
WhatsApp: +447481355358

**From:** hamzah fkmunsri [mailto:[hamzah@fkm.unsri.ac.id](mailto:hamzah@fkm.unsri.ac.id)]  
**Sent:** Friday, December 03, 2021 5:54 AM  
**To:** [healthinformatics@meetingsemail.com](mailto:healthinformatics@meetingsemail.com)  
**Cc:** [healthinformatics@meetingsint.com](mailto:healthinformatics@meetingsint.com)  
**Subject:** Fwd: Analysis of the Electronic Implementation of A Malaria Surveillance Information System (E-SISMAL) in the Lahat District

Dear

Harry Harrison | **Medical Informatics 2021**

Program Director | [35 Ruddlesway, Windsor, Berkshire, SL4 5SF](#)

Email: [healthinformatics@meetingsemail.com](mailto:healthinformatics@meetingsemail.com)

WhatsApp: +447481355358

Kindly see my oral abstract as an attachment.

Best,

Hamzah Hasyim

----- Forwarded message -----

From: **Health Informatics 2021** <[healthinformatics@meetingsint.com](mailto:healthinformatics@meetingsint.com)>

Date: Mon, 22 Nov 2021 at 13:28

Subject: Analysis of the Electronic Implementation of A Malaria Surveillance Information

System (E-SISMAL) in the Lahat District  
To: <[hamzah@fkm.unsri.ac.id](mailto:hamzah@fkm.unsri.ac.id)>

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WhatsApp: +447481355358

# Electronic Malaria Surveillance Information System (E-SISMAL) Android-Based Mobile: An Explorative Research

Author names and affiliations.

Hamzah Hasyim<sup>1\*</sup>, Rahmat Izwan Heroza<sup>2</sup>, Misnaniarti Misnaniarti<sup>1</sup>, Elvi Sunarsih<sup>1</sup>, Patricia Dale<sup>3</sup>, Fadhilah Eka Maharani<sup>4</sup>, Ahmad Fudholi<sup>5,6</sup>

<sup>1</sup>Faculty of Public Health, Universitas Sriwijaya, Indralaya, South Sumatra, Indonesia, 30662.

<sup>2</sup>Sriwijaya Human Computer Interaction laboratory, Faculty of Computer Science, Universitas Sriwijaya, Indralaya, South Sumatra, Indonesia, 30662.

<sup>3</sup>Centre for Planetary Health and Food Security (CPHFS) School of Environment, and Science, Griffith University, Nathan, Queensland, Australia, 4111.

<sup>4</sup>Faculty of Mathematics and Natural Sciences Universitas Sriwijaya, Indralaya, South Sumatra, Indonesia, 30662.

<sup>5</sup>Solar Energy Research Institute, Universiti Kebangsaan Malaysia, Bangi Selangor, Malaysia, 43600

<sup>6</sup>Research Centre for Electrical Power and Mechatronics, Indonesian Institute of Sciences (LIPI), Bandung, Indonesia, 40135

## Abstract

Malaria is a vector-borne disease that frequently causes outbreaks in residential and shelter areas due to insufficient vector control measures. Accurate and timely information systems from active surveillance of cases and vectors are essential for malaria elimination. Implementation of good surveillance and ensuring sufficient completeness of electronic malaria surveillance information system (E-SISMAL) is one of the recommendations of WHO for supporting the acceleration of malaria elimination in Sumatra, Indonesia. The current E-SISMAL has been optimized and is based on a personal computer (PC) in Lahat District, South Sumatra Province, Indonesia, Exploratory research was conducted through in-depth interviews with selected key informants. This article compiles user perspectives and critically examines the existing PC-based E-SISMAL and the future possibility of malaria surveillance using mobile phone data input. Early detection and response are critical in containing outbreaks of infectious diseases such as Malaria. While the PC-based E-SISMAL is already available, this study identified opportunities to improve the current design and performance. An E-SISMAL android mobile application prototype has been created at this stage, and the prototype output has been tested in a laboratory environment for components/subsystems. An E-SISMAL android application on a mobile phone is an essential communication tool for malaria surveillance, in a normal situation and including in disaster areas. Nonetheless, plans must be modified and integrated into emergency preparedness programs in advance.

Keywords: Information system database; android phone; malaria; reporting system; surveillance activity.

## Image



Figure Application Menu

## Recent Publications (minimum 5)

1. Potential for a web-based management information system to improve malaria control: An exploratory study in the Lahat District, South Sumatra Province, Indonesia.
2. Social determinants of malaria in an endemic area of Indonesia.
3. Does livestock protect from malaria or facilitate malaria prevalence? A cross-sectional study in endemic rural areas of Indonesia
4. Spatial modeling of malaria cases associated with environmental factors in South Sumatra, Indonesia.
5. Analysis of COVID-19 Prevention Behaviour among Diabetes Mellitus Comorbidity Patients in Palembang



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## Biography

Hamzah Hasyim is a professional lecturer, he has been highly committed to performing three pillars of higher education - comprising education, research, and community service.

He has researched occupational, social, and environmental health and tropical disease issue mainly

### Corresponding author.

hamzah@fkm.unsri.ac.id

<sup>1</sup>Faculty of Public Health, Universitas Sriwijaya, Indralaya, South Sumatra, Indonesia, 30662.

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## Notes/Comments:

### Funding

The research of this article was funded by the DIPA of Public Service Agency of Universitas Sriwijaya 2020. SP DIPA-023.17.2.677515 /2020, revision 01, On March 16, 2020. Following the Rector's Decree Number: 0685/UN9/SK.BUK.KP/2020, On July 15, 2020.

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December 13-14, 2021, Chicago, USA

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Country : <b>Indonesia</b>	Country : <b>Indonesia</b>
Phone : <b>0711580089</b>	Phone : <b>0711580089</b>
E-Mail : <b>hamzah@fkm.unsri.ac.id</b>	E-Mail : <b>hamzah@fkm.unsri.ac.id</b>

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**HEALTHCARE AND  
MEDICAL INFORMATICS**

DECEMBER 13, 2021 | WEBINAR

# SCIENTIFIC PROGRAM

## AGENDA

December 13, 2021 | Day 1

### Introduction & Opening Ceremony

#### Session Introduction

Major Sessions: Health Information | Biomedical Informatics | Dental Informatics | Clinical Care Informatics | Nursing Informatics | Health Data Analytics | Electronic Health Records | Pharmacy Informatics | Medical Informatics e-learning | Neuro Informatics | Artificial Intelligence in Healthcare | Digital Healthcare | Medical Tourism | Maternal, Infant, and Child Health | E-Prescription | Tele-Health and Medicine Today | Healthcare and Nursing | Epidemiology and Public Health | Neuro Informatics | Healthcare Technologies | Healthcare and Management | Healthcare and Innovation

08:30-08:50 **Title: Locally nonlinear embedding and dimensionality reduction of MFCCs information of stethoscope heart sounds**

**Jiann Ming Wu** | National Dong Hwa University | Hualien | Taiwan

**Title: Tobacco control in the Eastern Mediterranean Region: the urgent requirement for action**

08:50-09:10 **Judith Mackay** | Global Centre for Good Governance in Tobacco Control (GGTC) | WHO Director | Asian Consultancy on Tobacco Control | Hong Kong

09:10-09:30 **Title: Explaining Predictive Factors in Patient Pathways using Autoencoder neural networks on medical event logs**

**Martin Prodel** | HEVA | Lyon | France

09:30-09:50 **Title: Electronic Malaria Surveillance Information System (E-SISMAL) Android-Based Mobile: An Explorative Research**

**Hamzah Hasyim** | Sriwijaya University | South Sumatra | Indonesia

09:50-10:10 **Title: Drinking water's mineral nutrients preserved the health security**  
**Md. Ripaj Uddin** | Institute of National Analytical Research and Service (INARS) | BCSIR | Dhaka | Bangladesh

**Title: The tobacco industry and COVID**

10:10-10:30 **Judith Mackay** | Global Centre for Good Governance in Tobacco Control (GGTC) | WHO Director | Asian Consultancy on Tobacco Control | Hong Kong

10:30-10:50 **Title: A Graphical based approach for early diagnosis of Alzheimer disorder**  
**Pooja Khurana** | Manav Rachna International Institute of Research and Studies | Haryana | India

Title: Legalization of Narcotic Drugs in the Western World: Where does the Medical Community Stand?

10:50-11:10

**Subrata Biswas** | Special Excise Commissioner (Enforcement) | West Bengal | Former Zonal Director | Narcotics Control Bureau | Govt. of India

Title: Mapping of mothers' suffering and child mortality in Sub-Saharan Africa

11:10-11:30

**Bayuh Asmamaw Hailu** | Wollo University | Dessie | Ethiopia

Title: National Covid-19 registry in Iranian hospitals: Development of an agile information system for Covid-19-affected patients' data collection

11:30-11:50

**Somayeh Abedian** | Iranian Emergency Medical Services Organization | Tehran | Iran

Title: Application of Electronic Health Information System in medicine and public health: the need for implementation in Libyan health system

11:50-12:10

**Naeima Houssein** | University of Benghazi | Benghazi | Libya

Title: Automated System: Managing and Minimizing Human Manipulation Errors in the Production and Distribution of Radiopharmaceuticals

12:10-12:30

**Shayma Mohammed** | University Tunis El Manar | Tunis | Tunisia

A Secure Protocol against Selfish and Pollution Attacker nodes in Wireless Sensor Networks: A solution for availability and integrity of data transfer in a hospital patient monitoring system

12:30-12:50

**Hana RHIM** | Higher School of communication of Tunis | Tunisia

**Panel Discussion**



KEMENTERIAN  
KESEHATAN  
REPUBLIK  
INDONESIA



# Electronic Malaria Surveillance Information System (E-SISMAL) Android-Based Mobile: An Explorative Research

**Hamzah Hasyim<sup>1\*</sup>**, Rahmat Izwan Heroza<sup>2</sup>, Misnaniarti Misnaniarti<sup>1</sup>, Elvi Sunarsih<sup>1</sup>, Patricia Dale<sup>3</sup>, Fadhilah Eka Maharani<sup>4</sup>, Ahmad Fudholi<sup>5,6</sup>



International Congress on

## HEALTHCARE AND MEDICAL INFORMATICS

December 13, 2021

Webinar

Meeting URL <https://bluejeans.com/189416020/4528>

Malaria is a vector-borne disease that frequently causes outbreaks in residential and shelter areas due to insufficient vector control measures. Accurate and timely information systems from active surveillance of cases and vectors are essential for malaria elimination. Implementation of good surveillance and ensuring sufficient completeness of electronic malaria surveillance information system (E-SISMAL) is one of the recommendations of WHO for supporting the acceleration of malaria elimination in Sumatra, Indonesia.

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While the PC-based E-SISMAL is already available, this study identified opportunities to improve the current design and performance. An E-SISMAL android mobile application prototype has been created at this stage, and the prototype output has been tested in a laboratory environment for components/subsystems. An E-SISMAL android application on a mobile phone is an essential communication tool for malaria surveillance, in a normal situation and including in disaster areas. Nonetheless, plans must be modified and integrated into emergency preparedness programs in advance.

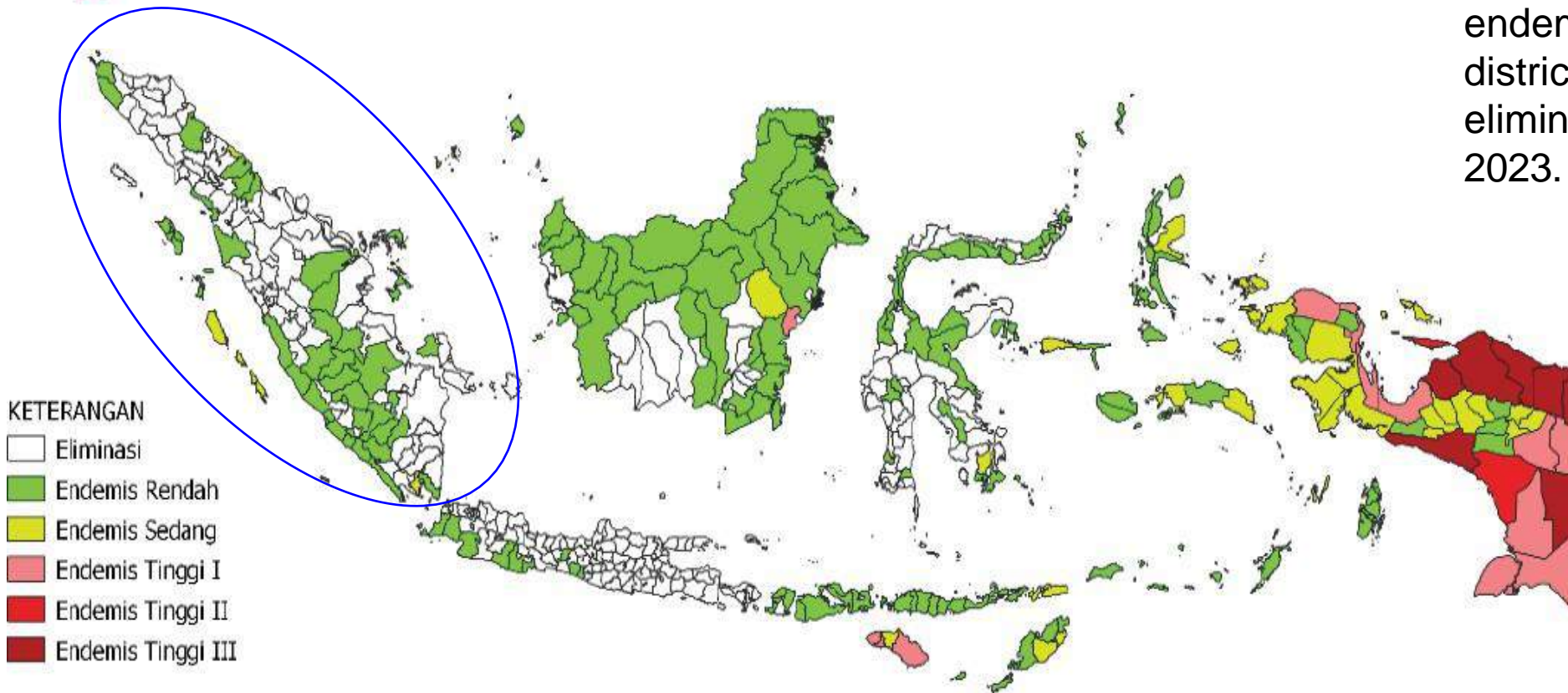
- Malaria elimination is a global and regional commitment. At the global level, the SDGs require countries in Asia to eliminate malaria at the latest by 2030.
- At the regional level, in the 9<sup>th</sup> East Asia Summit in 2014, leaders of Asia Pacific countries also committed to eliminate malaria by 2030. Welcoming said commitment, the World Health Organisation (WHO) then outlined the technical strategy for malaria 2016-2030.
- National malaria programs should strive to improve the access and utility of these information systems and establish cross-border data sharing mechanisms using standard indicators for malaria surveillance. Ultimately, investment in the information technologies that support a timely and targeted surveillance and response system is essential for malaria elimination.

**ZERO MALARIA**  
**STARTS WITH ME**

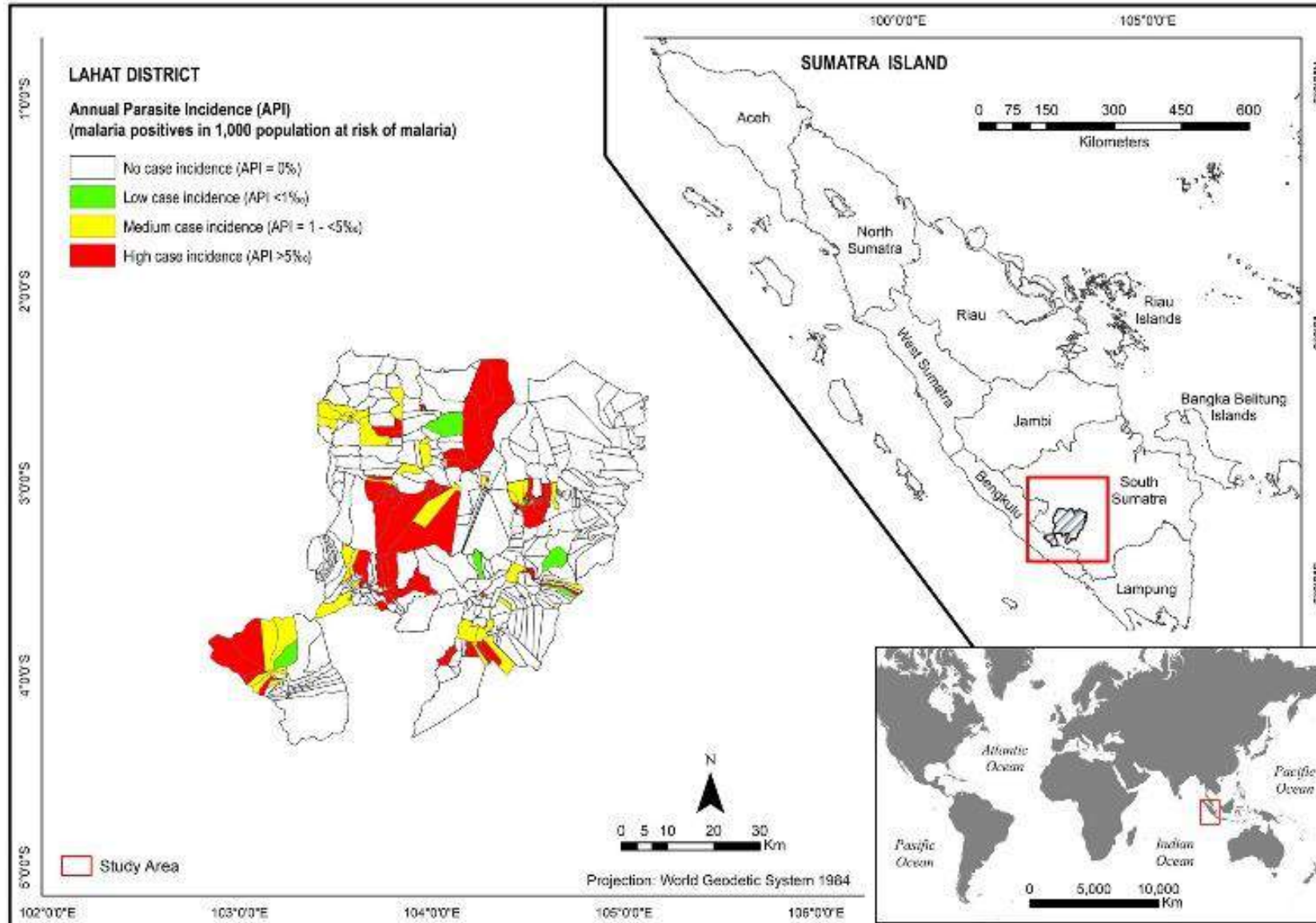
# Background: Malaria situation and milestones



In Sumatera, 43 (28%) malaria low endemic districts out of total 154 districts targeted to achieve elimination the latest by end of 2023.



5. Papua - West Papua Region	2029
4. Maluku - NTT Region	2028
3. Kalimantan – North Maluku Region	2027
2. Sumatera – Sulawesi – NTB Region	2025
1. Java-Bali Region	2023





# Evaluation of Malaria Elimination Achievements by Region



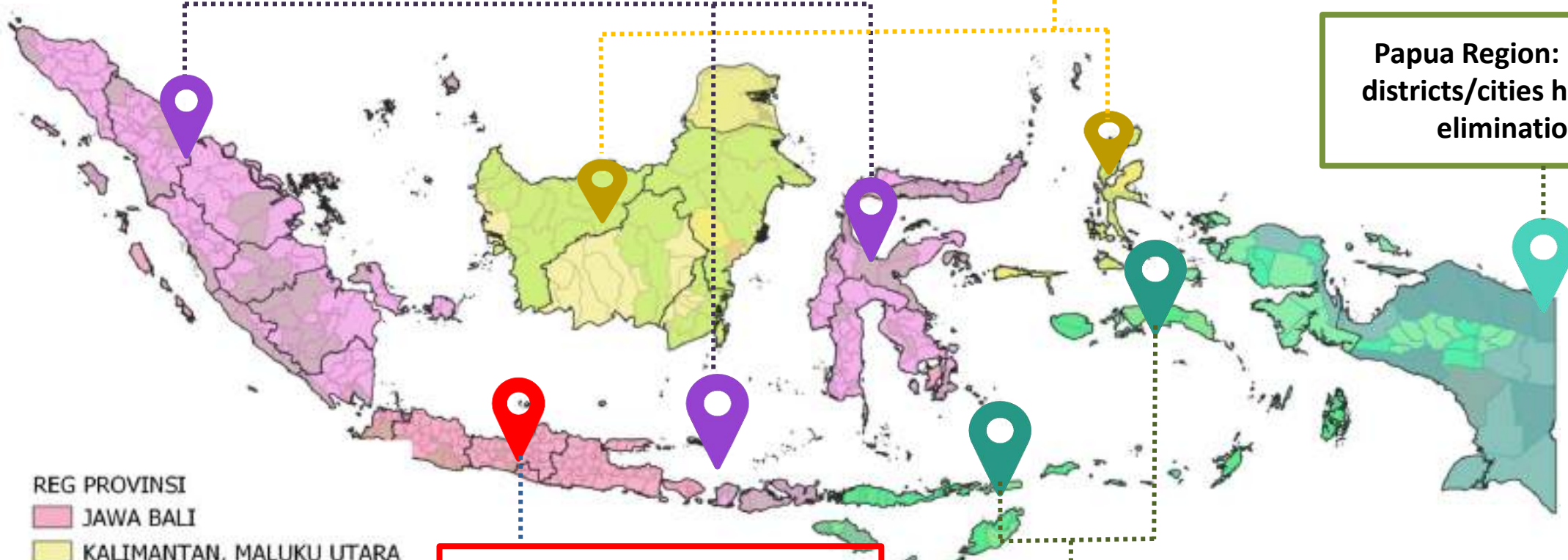
Sumatra, Sulawesi, West Nusa Tenggara Region: 165 out of 245 districts/cities have reached elimination (67%).

Regional Kalimantan-North Maluku: 29 out of 66 Districts/Cities have reached Elimination (44%)

Papua Region: 0 out of 42 districts/cities have reached elimination (0%)

Java-Bali Region: 121 out of 128 districts/cities have reached elimination (95%)

Maluku, East Nusa Tenggara Region: 3 out of 33 districts/cities have reached elimination (9%)



- REG PROVINSI
- JAWA BALI
  - KALIMANTAN, MALUKU UTARA
  - MALUKU, NTT
  - PAPUA, PAPUA BARAT
  - SUMATERA, SULAWESI, NTB

# Electronic Malaria Surveillance Information System (SISMAL) Mobile

At the community health centres [Puskesmas] level, e-SISMAL (Electronic Malaria Surveillance Information System) was created as a tool for data entry, where patient data is entered at this level.

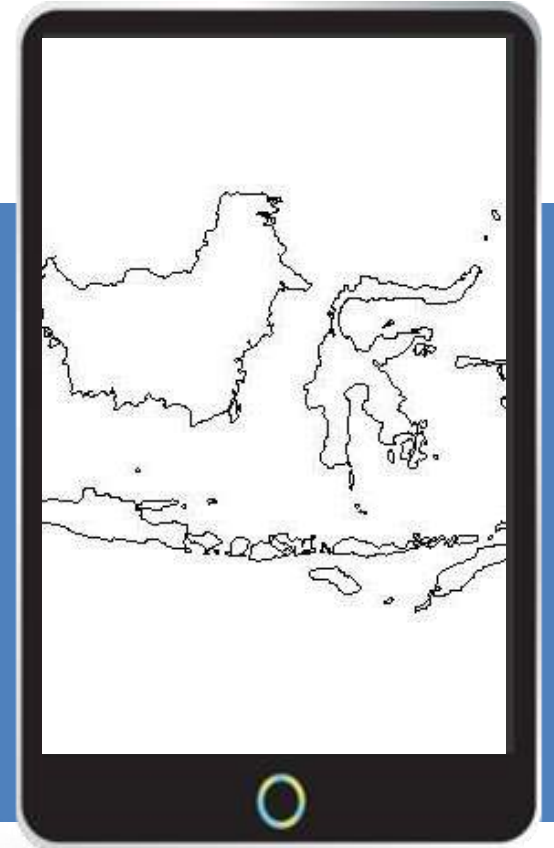
At the district level, it is an electronic system created to recapitulate malaria patient data from all health centers within the district/municipality level. In contrast, it is used for recapitulation at the district/city level at the provincial level.

At the central level, it is used for recapitulation at the Regency/City level.

**ZERO MALARIA**  
**STARTS WITH ME**

# Positioning E-SISMAL Mobile

Android-based applications are tools used by the community health centres [puskesmas] as an alternative to entering the data required by e-SISMAL.



# Why Mobile?

Compact

Inexpensive

Easy

It can be used anywhere (offline)

It can save data (storage)

It can access locations

Documentation tools

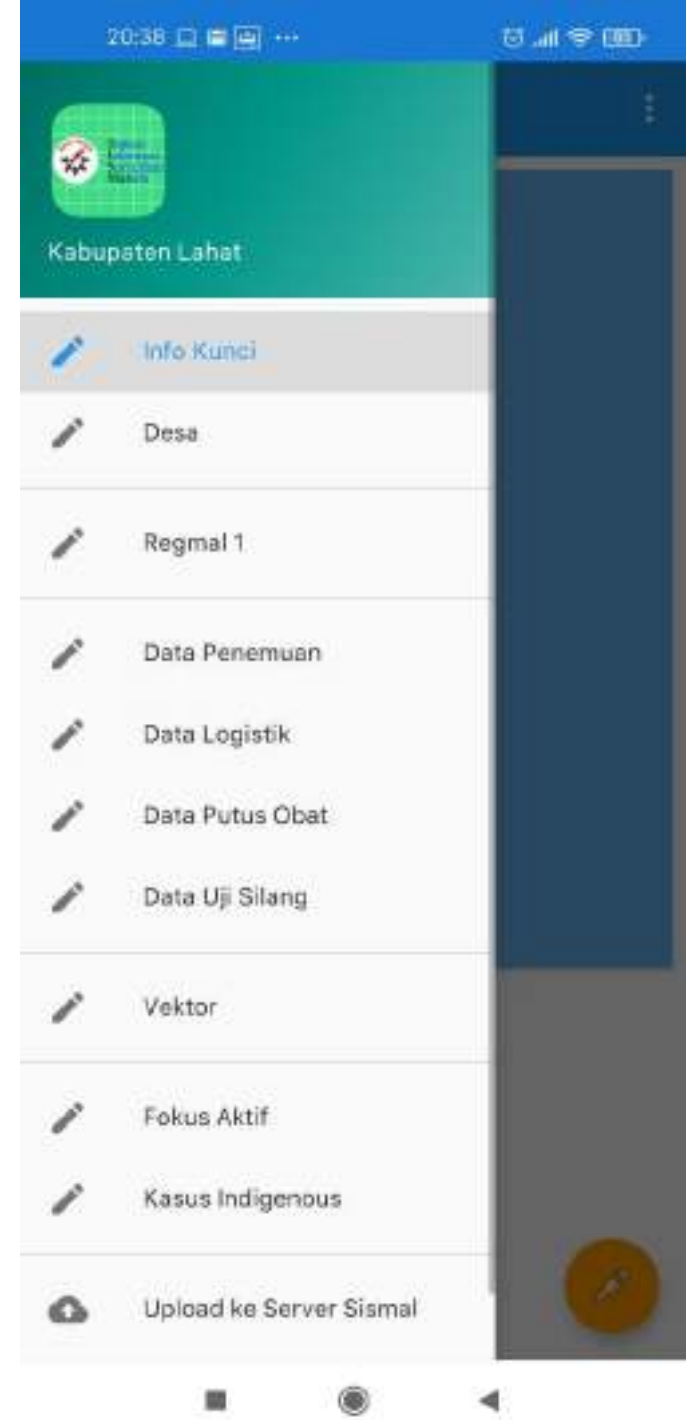


# Menu

Five Data Input Menu:

- Key Info
- Regmal 1
- Regmal 2
- Vector
- Focus

Each menu has a list and an input/update form.



# List

- List of data that the officer has entered in one period.
- Data was retrieved from local storage.
- Accessed without an internet connection



# Form

- Form to input/update data
- Data is stored in local storage without an internet connection.

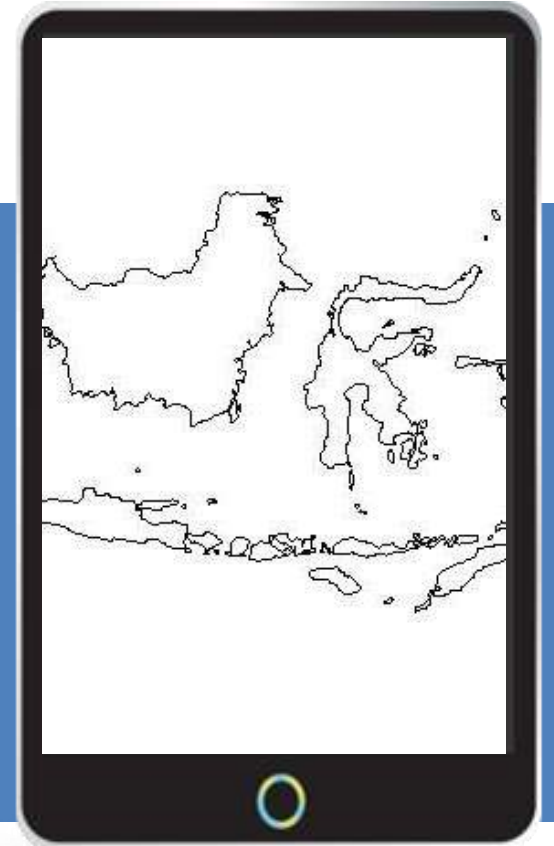
The screenshot shows a mobile application interface with a blue header bar containing the title 'Form Update Info Kunci' and a 'SIMPAN' button. The form consists of several text input fields with labels and values:

- Nama Petugas:** Sri Midawati, Am. Keb.
- Tahun Pencatatan:** 2020
- Propinsi:** Sumatera Selatan
- Kabupaten / Kota:** Lahat
- Kecamatan:** PAGAR JATI
- Nama Faskes:** PUSKESMAS PAGAR JATI
- ID Faskes:** 1604
- API Kabupaten:** 12

The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps icons.

# Other features

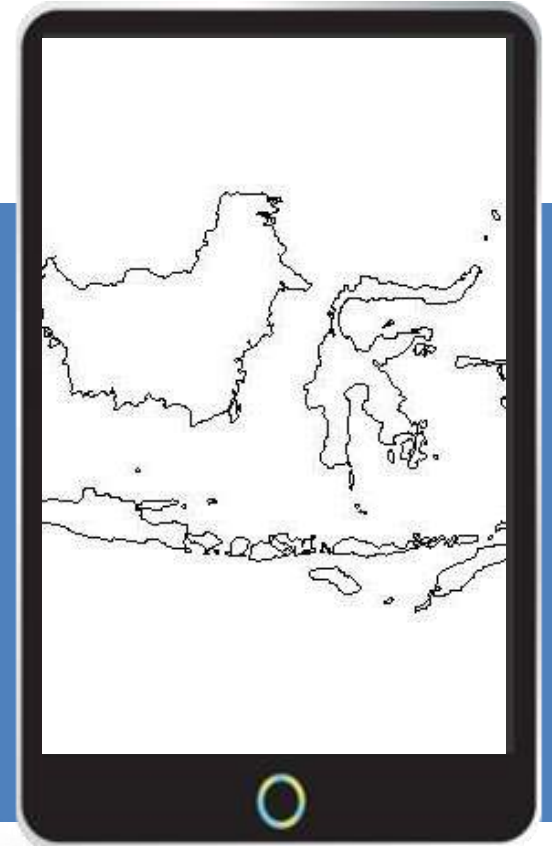
- Access location (lat, long) automatically according to the officer's location
- Input validation





# Opsi Positioning

- The application is directly connected to the e-sismal server.
- The application generates an excel e-sismal conversion.





# Install the Android-based E-SISMAL Mobile application.

1. Click on the "E-Sismal Mobile.apk" file
2. Click "Settings" in the dialog that appears.
3. Check "Allow from this source" in the settings menu that appears.
4. Click the back button or arrow.
5. Click "Install" to start the installation.
6. Click "Open" after the installation process is complete.

## Objectives:

1. To conduct rapid situation analysis using district readiness malaria elimination tool (baseline and endline).
2. To determine specific challenges from seven district and provide the recommendations to accelerate the achievement of malaria elimination targets.
3. To sensitize multisectoral stakeholder and encourage district to increase community awareness on malaria elimination
4. To monitor the implementation of the approved activities funded by national, province, district and the Global Fund (GFATM) in 2021.
5. To share the progress and recommendations to the respective districts and province authorities, as well as to NMCP.
6. To facilitate capacity building of malaria program management towards malaria elimination including fostering innovation or specific local approach
- 7. To provide technical assistance in the implementation of good surveillance and ensuring sufficient completeness of malaria surveillance information system (SISMAL) reports**
8. To facilitate capacity building of malaria program management to perform data analysis
9. To facilitate the improvement of data used as the evidence-base in the implementation of interventions
10. To ensure the continuation of malaria services during the COVID-19 pandemic
11. To document all malaria activities and provide a final report.

# Main tasks, methods, deliverables and timeframe (1)

Tasks	Methods	Deliverables	Month									
			1	2	3	4	5	6	7	8		
1. Conduct rapid situation analysis on the malaria situation based on district readiness malaria elimination tools (baseline).	Using district readiness malaria elimination tools.	Preliminary report findings submission on day 120 of the contract										
2. Conduct workshop with respective districts, primary health centers (PHCs) and all health facilities to discuss results of district readiness malaria elimination tools and develop action plans to overcome the results to accelerate malaria elimination with timeline.	Workshop with thematic below: <ol style="list-style-type: none"> <li>Case management (case finding, diagnosis, treatment, referral system)</li> <li>Vector control and entomological surveillance</li> <li>Surveillance, early warning system and response (SISMAL, Epidemiological investigation (PE) 1-2-5, migration surveillance)</li> <li>Promotion and advocacy (regulation, multisectoral collaboration, community awareness).</li> <li>Programme management (Human resource, financial, PSCM)</li> </ol>	A report of specific recommendations and agreed action plans with districts submission on day of 120 of the contracts										

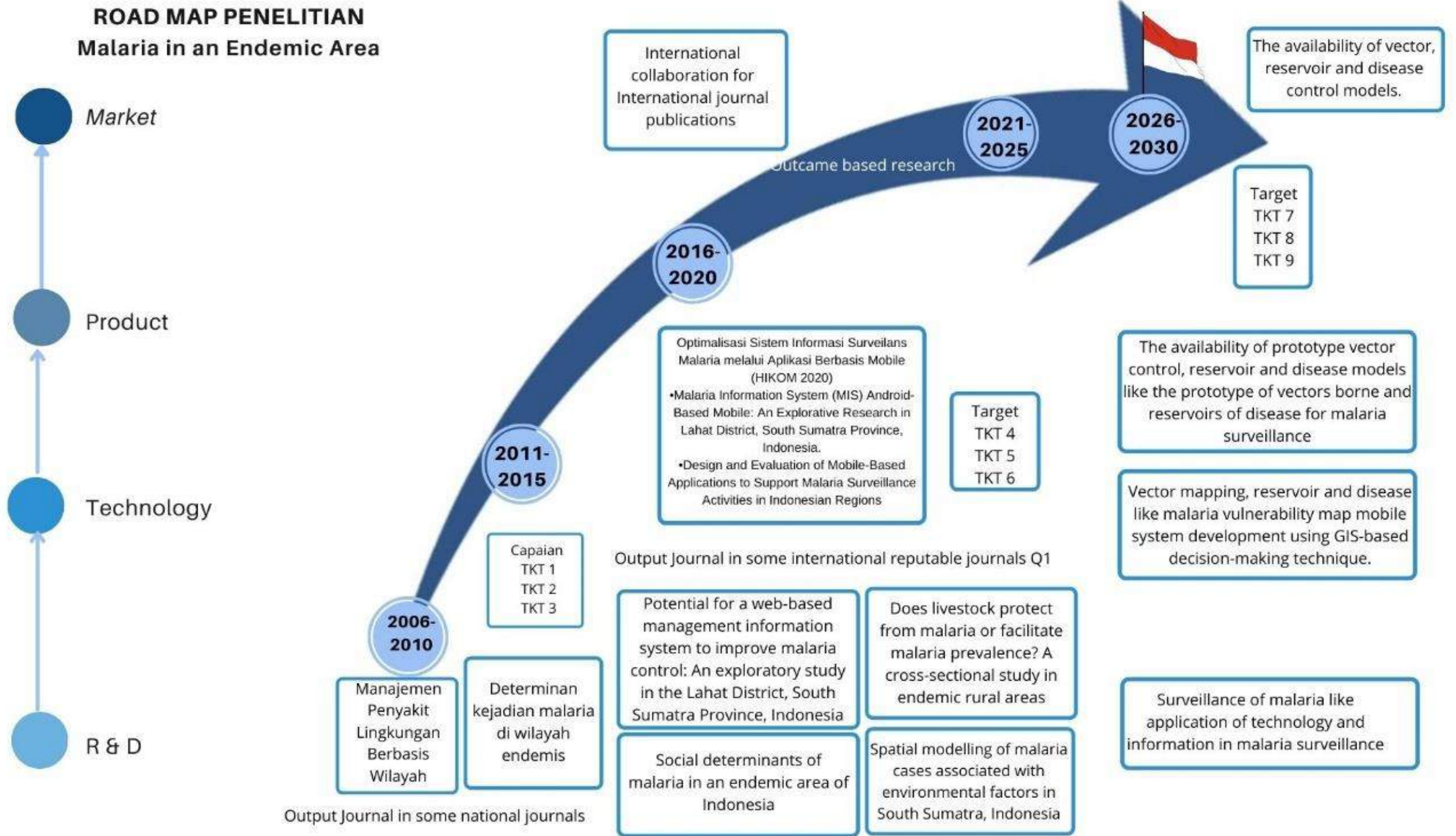


## Expected Outputs:

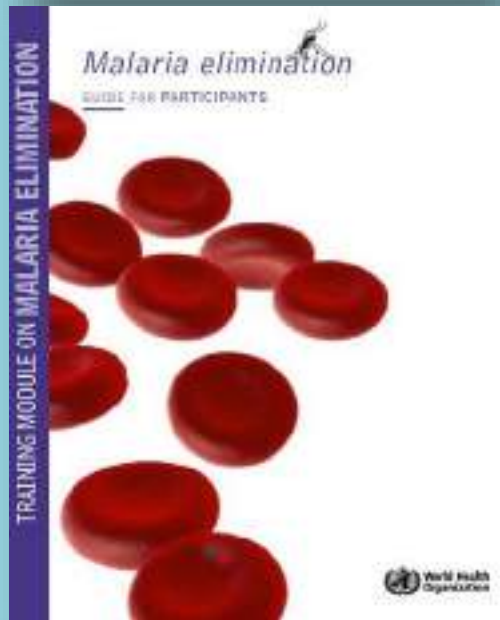
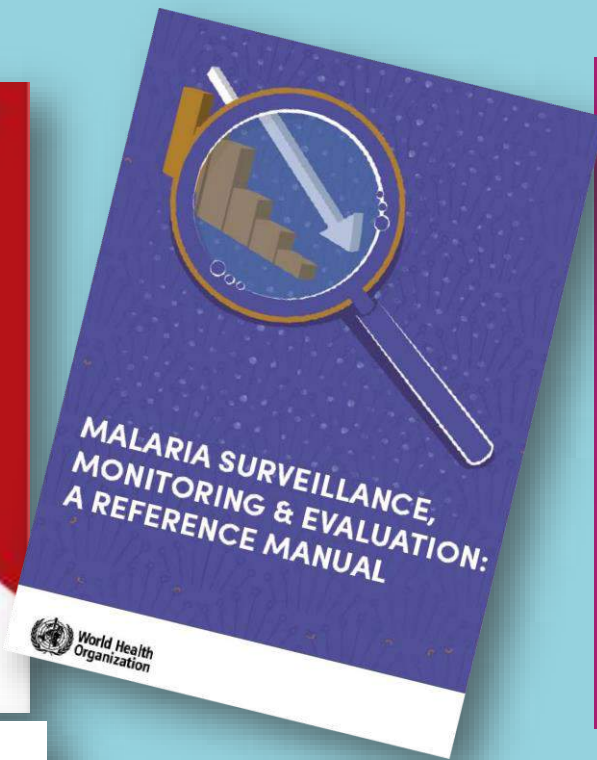
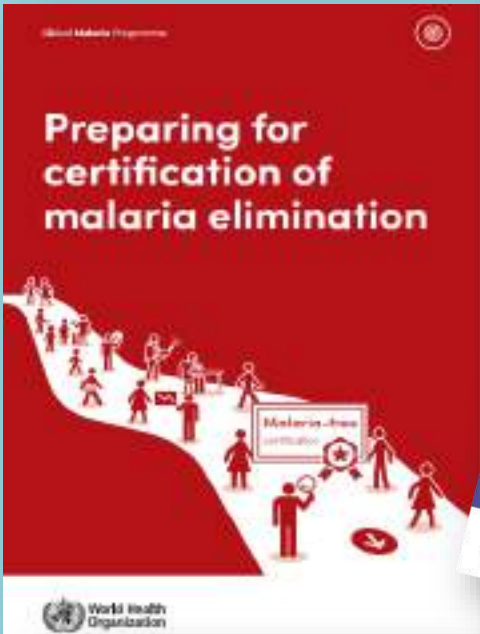
- High quality situation analysis report and recommendations according to specific problems.
- High quality action planning documents at districts and province (including maps, high risk areas, high risk population, budget, timeframe identified).
- High quality results of implementation the given tasks based on specific issues at each district and province (a draft of local regulation i.e. Perbup/Pergub, etc; PHO/DHO decree for quality assurance diagnosis/referral system/PPM, etc; quality of surveillance included recording and reporting system through SISMAL, vector control, cross-border collaboration, etc).
- **High quality and sufficient completeness of SISMAL reports with the data analysis from provincial/district**
- Implemented activities with the innovation and specific strategy for specific population /mobile migrant populations (MMPs), if relevant.

# ROAD MAP PENELITIAN

## Malaria in an Endemic Area



# References



Further information and references:

<https://www.who.int/teams/global-malaria-programme>

[www.malaria.id](http://www.malaria.id)





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Johannes Bircher  
University of Bern Switzerland



Theodore M. Brown  
University of Rochester USA

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Johannes Bircher  
University of Bern Switzerland

Theodore M. Brown  
University of Rochester USA

