



SORMAS
FOUNDATION

**How to manage epidemics
and pandemics with SORMAS**



#service #information #facts

How to manage epidemics and pandemics with SORMAS

Open-source software with over 40 infectious diseases modules



Following the experience from the COVID-19 pandemic, Luxembourg decided to introduce SORMAS for COVID-19 as well as other communicable diseases. SORMAS will interface with existing applications and new features are being developed in a generic way, in order not only to meet Luxembourg's needs but to benefit the whole SORMAS community.



Dr Anne Vergison

Head of the Health Inspection Division at the Luxembourg Health Directorate

Nepal decided to use SORMAS to address the existing gaps in the event-based surveillance system of the country, especially for early detection and response of outbreaks at the community level, through real-time digital surveillance. An open source e-health system that integrates epidemiological and laboratory surveillance together along with features like interoperability and offline capability are its important components, making SORMAS a standout choice.

Koshal Chandra Subedee

Public Health Inspector, Ministry of Health and Population, Department of Health Services, Epidemiology and Disease Control Division, Nepal.



You want to know more about SORMAS?

Visit
www.sormas.org



What makes SORMAS special

SORMAS is pivotal in Ghana's Public Health Division, revolutionizing surveillance and outbreak management at the Ghana Health Service. Its real-time data collection empowers us to monitor and combat diseases effectively. Notably enhancing Ghana's response to COVID-19, it supports early warnings and preparedness for outbreaks like Yellow Fever, Marburg, and Lassa Fever. Strengthening user capacity and fostering One Health collaboration can deepen SORMAS's impact in Ghana.

Dr Franklin Asiedu-Bekoe
Director Public Health,
Ghana Health Service



Nigeria: a SORMAS success story

Prevention (NCDC) leveraged SORMAS to enhance real time digital surveillance, enabling rapid detection and containment of outbreaks. Through the strategic scale-up of SORMAS and continuous training, Nigeria has integrated the software into its healthcare infrastructure to empower frontline healthcare workers to swiftly identify and manage potential health threats. Currently, SORMAS is effectively deployed and being used in 37 states for over 40 notifiable diseases covering a population of over 200 million. Users include personnel at Emergency Operation Centers (EOCs), health facilities, points of entry, laboratories, and volunteers in communities. Nigeria's adept use of SORMAS showcases the best practices in public health interventions by harnessing technology and commitment of health staff to making a sustainable impact on the global fight against infectious diseases.



In the face of public health challenges, the Nigerian Centre for Disease Control and Prevention (NCDC) leveraged SORMAS to enhance real time digital surveillance, enabling rapid detection and containment of outbreaks. Through the strategic scale-up of SORMAS and continuous training, Nigeria has integrated the software into its healthcare infrastructure to empower frontline healthcare workers to swiftly identify and manage potential health threats. Currently, SORMAS is effectively deployed and being used in 37 states for over 40 notifiable diseases covering a population of over 200 million. Users include personnel at Emergency Operation Centers (EOCs), health facilities, points of entry, laboratories, and volunteers in communities. Nigeria's adept use of SORMAS showcases the best practices in public health interventions by harnessing technology and

Successful since 2016

SORMAS is currently in use in several countries for surveillance and outbreak management of infectious diseases. Starting as a prototype in the aftermath of the 2014 Ebola epidemic in West Africa, SORMAS evolved to an open-source digital health platform for epidemic management and response. Since then, it continues being developed and adapted for numerous infectious diseases, including the management of pandemics.

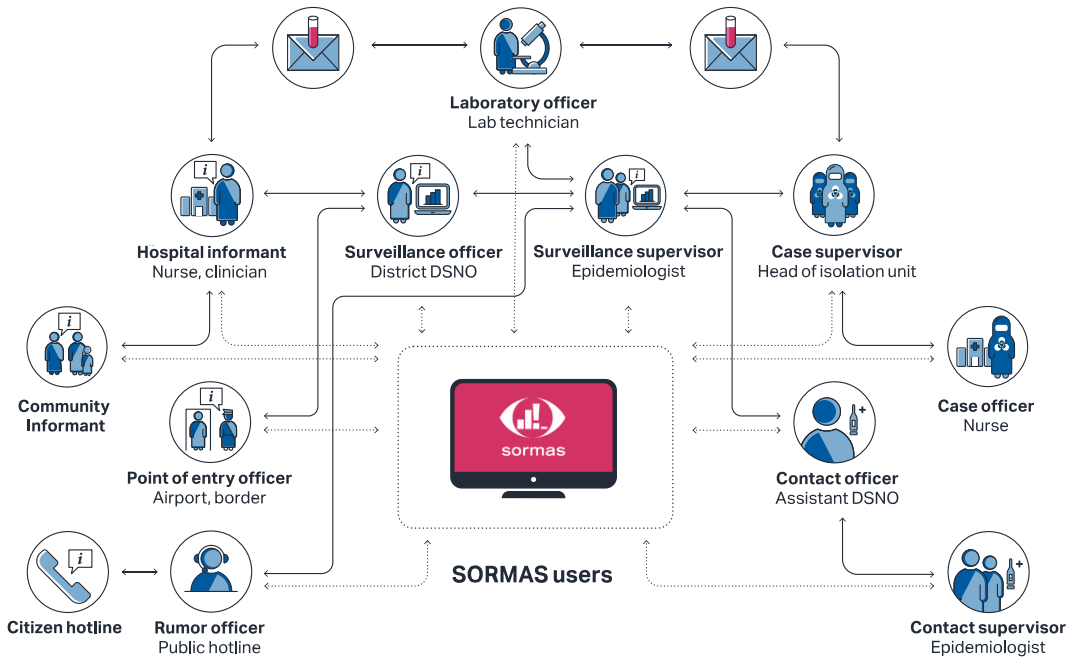
- S** URVEILLANCE
- O** UTBREAK
- R** ESPONSE
- M** ANAGEMENT AND
- A** NALYSIS
- S** YSTEM

SORMAS

A collaborative platform for early warning, detection, and response to outbreaks!

Real-time, multidirectional data sharing with integrated task management that enables efficient coordination and structured communication.

How SORMAS operates



Surveillance dashboard

Case data and statistics are displayed in real-time in the Surveillance dashboard. Various indicators are calculated automatically. The epidemiological curve shows the evolution of the number of cases broken down into categories over a time period. The case status map shows the geographical distribution of cases.



Contact follow-up

The contact directory shows the distribution and statistics for stored contacts and the respective quarantine status. Follow-ups can be monitored using the contact dashboard.



Infection chains visualization

The visualization of infection chains is key to assess the spread of diseases and support decision-making related to control measures.



Visit demo.sormas.org

Want to try SORMAS? Use our demo version!



OWNERSHIP

SORMAS is available to countries for use and it is customizable to country specific needs in conformance to their surveillance systems and structures.

Data processed through SORMAS belongs to the countries and its hosting and management are the responsibility of their authorities.

SECURITY

The SORMAS data protection and security concept follows the European data protection regulations (GDPR). It includes anonymization, pseudonymization and data deletion, subject to countries. In addition, regular data and system security measures are applied. Furthermore, the system is only accessed according to user rights defined by countries.

TRANSPARENCY

As an open source software, SORMAS 's source code is publicly available on the GitHub platform. It is licensed under the GNU General Public License 3.0. which makes sure that changes to the codebase or derivate projects have to be made publicly available as well.

The development process is transparent and collaborative. This way, countries enjoy high quality software and avoid vendor lock in.



open-source



data protection and security according to GDPR



user-centered and science-based design platform for collaboration among different actors

Technical features

- ✓ real-time data sharing and document generation
- ✓ interoperability with other systems
- ✓ configurable features and user rights
- ✓ individual statistic generation for reporting
- ✓ online and offline capability
- ✓ web and mobile version
- ✓ task management for teams
- ✓ symptom diaries

SORMAS is a Digital Public Good



Endorsed by the UN Secretary General's Roadmap for Digital Cooperation, the Digital Public Goods are: "open source software, open data, open AI models, open standards and open content that adhere to privacy and other applicable laws and best practices, do no harm, and help attain the SDGs."

SORMAS is a Mature Global Good

A mature digital health software global good is software that is free and open source, is supported by a strong community, has a clear governance structure, is funded by multiple sources, has been deployed at significant scale, is used across multiple countries, has demonstrated effectiveness, is designed to be interoperable and is an emergent standard application.

**digital
square**

History

2015

After the Ebola epidemic in West Africa in 2014/2015, a consortium of German and Nigerian public health and research institutions and a software company, coordinated by the Helmholtz Centre for Infection Research (HZI), developed the Surveillance Outbreak Response Management and Analysis System (SORMAS). After the SORMAS prototype was developed, it was tested at different health system levels in two states of Nigeria.

2016

In 2016, SORMAS became an open-source platform. Further software development took place to include the laboratory module and additional diseases in the system.

2018

A Public Private Partnership between the Helmholtz Centre for Infection Research, Ghana Health Services and the IT company Ghana Community Network System was established to start the adaptation and testing of SORMAS.

2019

SORMAS officially fulfills the Digital Square Global Goods Maturity Assessment.

2020

In early 2020, a COVID-19 module was quickly developed in SORMAS, which led to its adoption by countries like France, Switzerland, Fiji, Ivory Coast, Nepal, and Germany. The same year, the Democratic Republic of Congo (DRC) and the OCEAC (Organisation de Coordination pour la lutte contre les Endémies en Afrique Centrale) also decided to pilot SORMAS.

2021

SORMAS data and security protection concept is expanded to fulfill GDPR regulations. Tunisia starts the deployment of SORMAS.

2022

Establishment of the SORMAS Foundation with the support of the Friends of HZI (Förderverein des HZI e.V.).

2023

Luxembourg and Djibouti started piloting SORMAS. Start of the development of the SORMAS regional concept for the IGAD and ECOWAS regions.

Visit map.sormas.org



Want to know which countries are using SORMAS?

The SORMAS Foundation - who we are and what we do

We support local, national and international organizations in the development and implementation of SORMAS and other digital open-source systems for disease prevention and control.

The SORMAS Foundation Team

It is a privilege to work at the SORMAS Foundation as part of a diverse team that has constant engagement with end users, thereby contributing to our collective work, inspiring hope and changing lives.

Dr Candice Louw
Business Analyst



Dr Pilar Hernández
Business Development & Projects

Jan Böhme
Technology & Operations

Managing Directors



Board Members



Prof Paul Biondich



Dr Natalie Mayet



Ulrich Ahle



Fatema Uddin



Patrick Nguku



The Ecosystem

A vibrant community of implementers, users, funders, IT companies, and researchers that shares experiences and perspectives from around the world. Interested in exchange with others? Connect with our Community!



Register Now

Our Vision

A world in which all countries are prepared to respond to epidemics and pandemics digitally and collaboratively

Build a strong community through development, promotion, and implementation of open-source digital systems that support national and international organizations in early detection and containment of epidemics and pandemics

Our Mission

Join us today and be a part of the SORMAS journey, where innovation meets impact! Together we can shape a healthier future!

Your way to SORMAS in 4 steps

1

Contact us

Get in touch with us !



 info@sormas.org

 www.sormas.org

 community.sormas.org

We understand your needs

2

We will appreciate a deeper understanding of your requirements and provide guidance on optimizing the system to better meet your needs.

3

We help you implement

Conducting a comprehensive needs assessment that includes a sustainability plan and budget, defining system requirement specifications, and performing tailored trainings are integral components of our approach to helping you implement a functional system.

Join our community

4

After the initial set up, you continue to benefit from a community of SORMASians with a wide variety of experience that is organic.



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