





# CORESMA - COVID-19-Outbreak Response combining E-health, Serolomics, Modelling, Artificial Intelligence and Implementation Research

WP 1 Enhancing public health preparedness and availability of

impactful real time data through digital health surveillance

with SORMAS

Deliverable D1.1 Report

Title of Deliverable: Optimized point of entry module in SORMAS which is in use in

**Ghana and Nigeria** 

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# CORESMA 101003480



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### Deliverable D1.1

### D1.1 Optimized point of entry module in SORMAS which is in use in Ghana and Nigeria

The Surveillance Outbreak Response Management and Analysis System (SORMAS) is an open source mobile eHealth System. The software has been successfully used since 2014 for many infectious diseases except the current COVID-19 outbreak. It helps implementing disease control and outbreak management procedures including surveillance and early detection of outbreaks. It allows for real-time digital surveillance also covering peripheral health care facilities and laboratories. Pseudonymisation in the exchange of confidential personal data between regions and districts is taken into account. Before the start of the COVID-19 pandemic, the software was in use in Nigeria and Ghana since 2019. SORMAS is successfully used for many infectious diseases Ebola fever, Lassa fever, monkeypox and others. As necessary adjustments in a country newly using SORMAS get to known only step-by-step through feedback of the users (all of which are employed in the health care sector), it is not possible to predict the scope of adjustments at the current point of time. Due to further waves of COVID-19 that hit Nepal stronger than Ivory Coast, there is a delay in the implementation of the pilot phase in both countries. In the meantime however, SORMAS has been optimised with additional features, funded by other funding sources, that allow users to document and track returning travelers.

Later, in the further course of the project, the risk assessment and targeted measures for the COVID 19 pandemic and future pandemic mitigation will be analysed in combination with the seroprevalence study and new modelling methods.

Optimized Point of entries (PoE) will be terrestrial boarders in Côte d'Ivoire and Nepal as well as international airports in both countries and ports in Côte d'Ivoire via a training of health agents working at these PoE. As the first phase of user trainings when piloting SORMAS in Côte d'Ivoire and Nepal will take place with health facilities the PoE targeted trainings need to happen in a second phase as per decision of the Ministries of Health in both countries. The point of entry module will need to be optimized after receiving feedback from the respective health agents working with SORMAS after their training in the PoE in Côte d'Ivoire and Nepal.

### <u>Côte d`Ivoire:</u>

Training of health agents working at PoE, i.e. Abidjan, will take place in a second phase of trainings as initial pilot trainings do start on the level of health facilities in Abidjan in July 2021 followed by Bouaké district in August.

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## Nepal:

The Tibhuwan International Airport in Kathmandu has been identified as designated PoE, however SORMAS will be implemented in two Ground crossings of the SORMAS piloting provinces. Employees of Ministry of Health will be trained in SORMAS in summer 2021. These trained human resources will be the trainers for health agents working in PoE. For further information please use the following links:

- <a href="https://innov.afro.who.int/emerging-technological-innovations/sormas-surveillance-outbreak-response-management-and-analysis-system-2084">https://innov.afro.who.int/emerging-technological-innovations/sormas-surveillance-outbreak-response-management-and-analysis-system-2084</a>
- https://sormas.org/