The Africa COVID-19 Community Vulnerability Index

Using Big Data to Identify and Support Africa’s Most Vulnerable Communities

WHAT IS THE INDEX?

As COVID-19 infiltrates Africa, planning and response efforts have been hamstrung by limited data, especially among Africa’s most vulnerable regions: those that will struggle to weather a COVID-19 outbreak and its health, economic, and social impacts without support.

To identify which African regions are most vulnerable and why, Surgo Foundation has created the Africa COVID-19 Community Vulnerability Index (Africa CCVI). It will help governments, donors, non-governmental organizations, advocacy groups, researchers, and others develop more effective, data-driven responses to the pandemic.

The Africa CCVI was inspired by the U.S. COVID-19 Community Vulnerability Index, a tool developed by Surgo Foundation and now featured as a CDC resource.

HOW DOES THE INDEX MEASURE VULNERABILITY?

While many COVID-19 dashboards focus on virus spread and impact, the Africa CCVI uniquely focuses on vulnerability, identifying where and why regions are vulnerable, due to its modular nature.

The Africa CCVI is made up of seven themes, each consisting of factors shown to increase a community’s vulnerability to COVID-19:

- **THEME 1** - Socioeconomic vulnerability: Access to information, education, poverty, and unemployment
- **THEME 2** - Population density
- **THEME 3** - Access to housing and transportation: Household crowding, improved housing, sanitation, access to transportation, and road connectivity
- **THEME 4** - Epidemiological factors: Non-Communicable Diseases, HIV prevalence, infectious diseases prevalence, smoking, and BCG vaccination
- **THEME 5** - Health system factors: Health system strength, health system capacity, and access to health care
- **THEME 6** - Fragility: Civil unrest, food insecurity
- **THEME 7** - Age: Number of people aged 65+

To explore the index and learn more, visit precisionforcovid.org/africa.

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