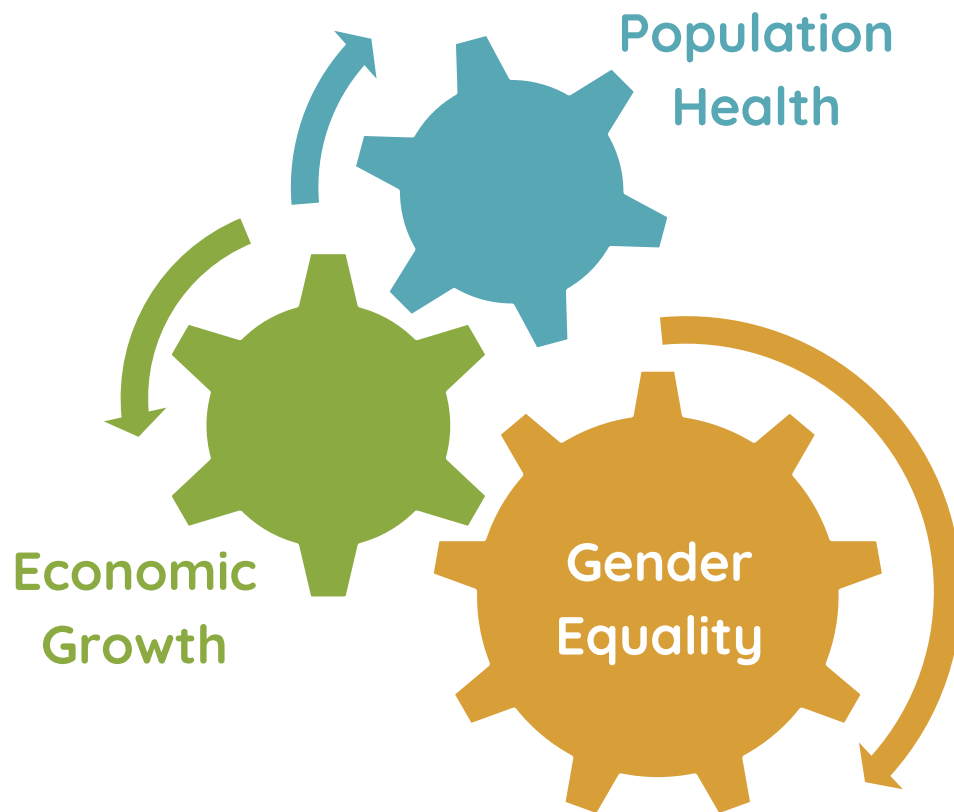# GeNorms:

An R Shiny App to Improve Gender Equitable and Social Values in Sub-Saharan Africa

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*Research Fellow,
University of Southampton*

Gender equality is a fundamental human right that is at the core of the SDG

The inclusion of women in education and employment opportunities has several benefits

Population Health

Economic Growth

Gender Equality

Significant barriers to gender equality persist in many parts of the world.

Only 23 of 36 countries in the sub-Saharan Africa have closed at least 97% of their gender gap in primary education.

<50% of women in sub-Saharan Africa (except in Malawi and Comoros) are the sole owners of at least some land.

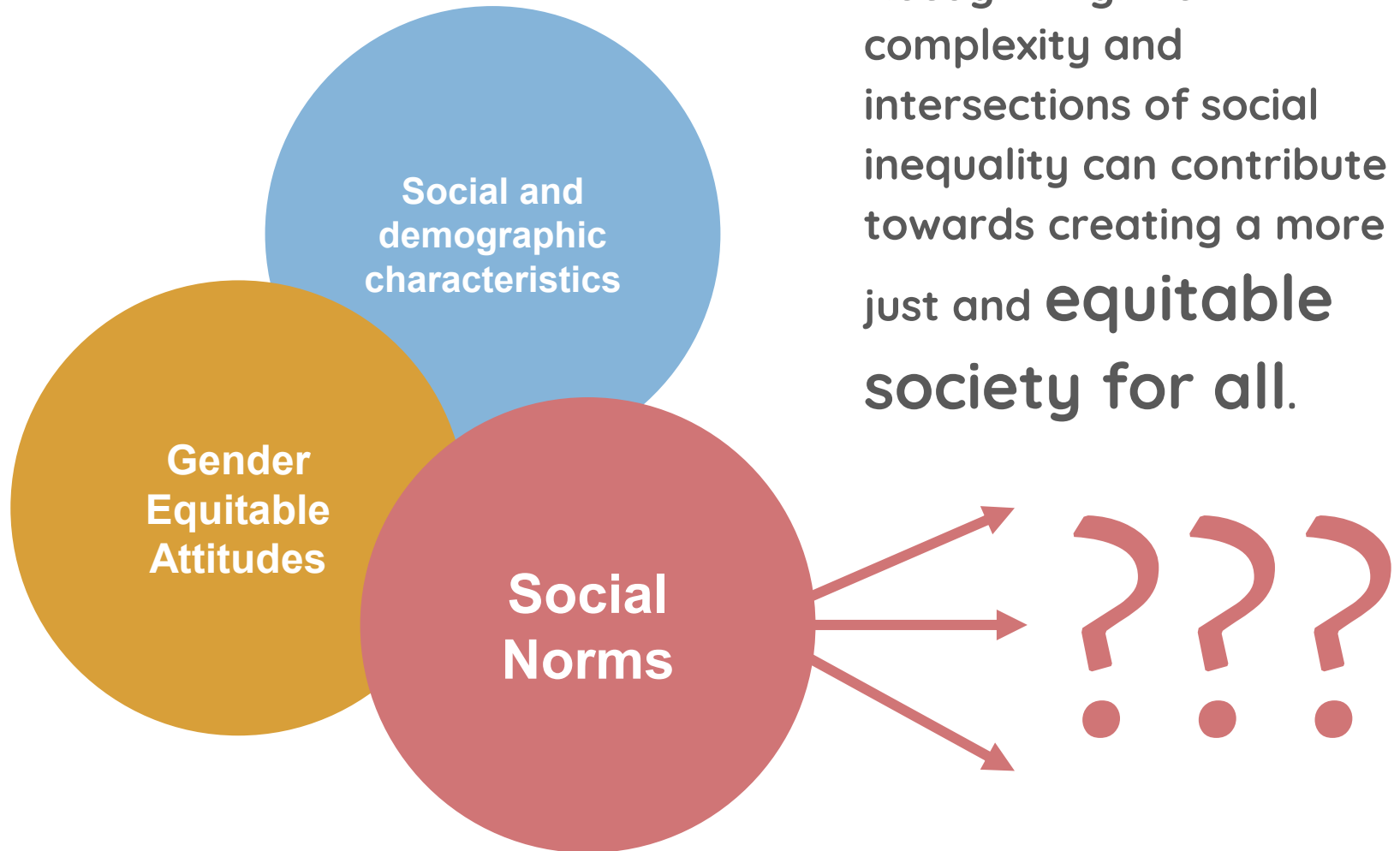**~7% of** women in Africa are in top executive positions.

<25% of cabinet members in Central, North, and West African regions are women.

Social and cultural norms can create barriers to gender equality

Far less is known about gender attitudes intersects with other social norms

Social and demographic characteristics

Gender Equitable Attitudes

Social Norms

Recognizing the complexity and intersections of social inequality can contribute towards creating a more just and equitable society for all.

???

We developed and validated several machine learning algorithms to identify social norms that are associated with gender equitable attitudes
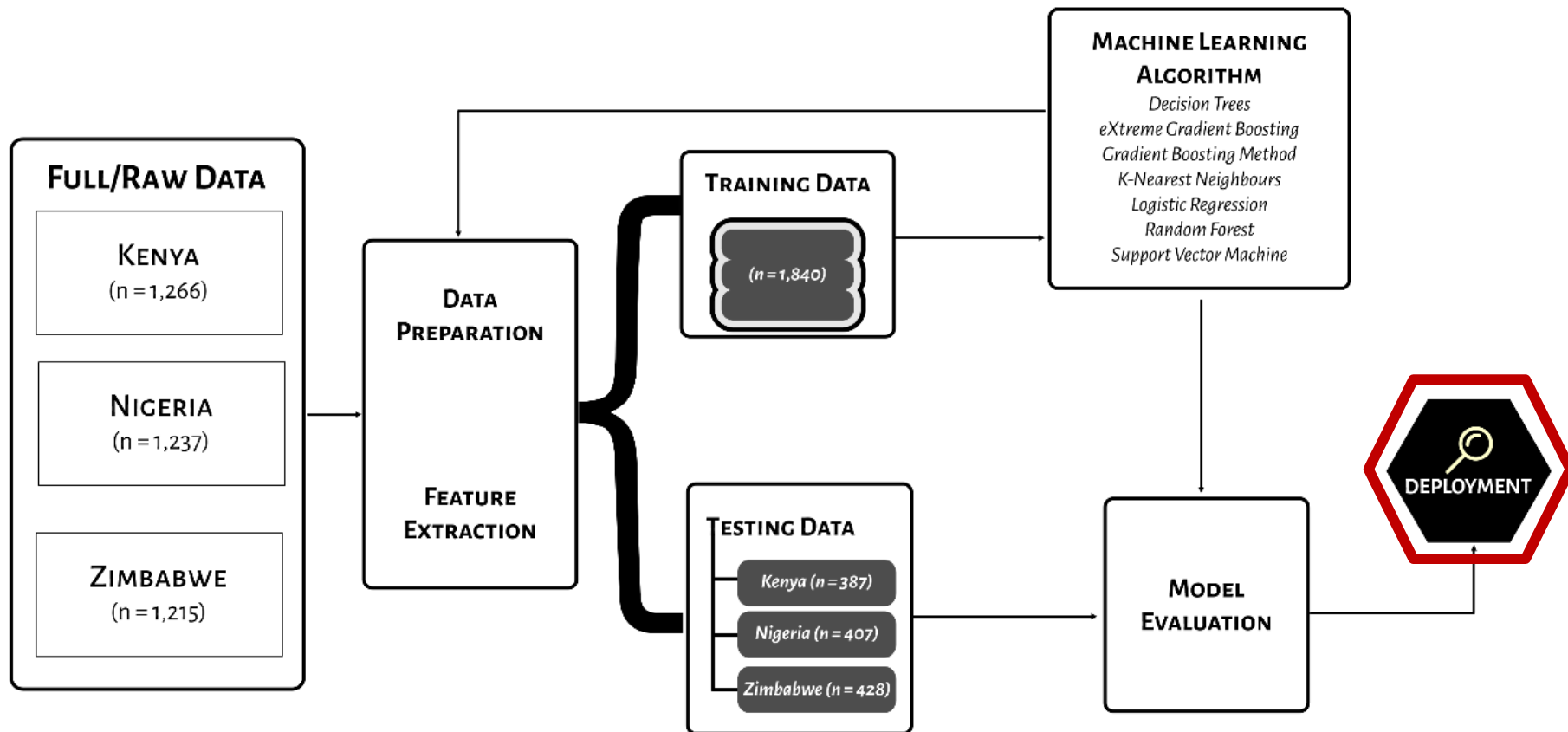
Gender attitudes intersects with other social norms and social inequalities

https://eolamijuwon.shinyapps.io/GeNorms/
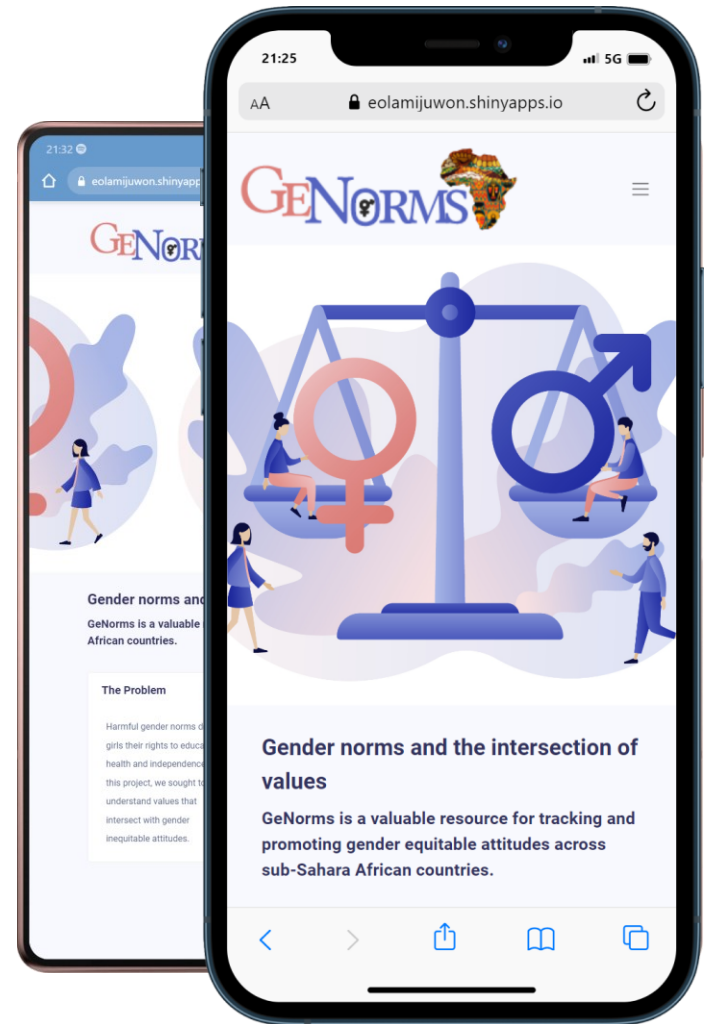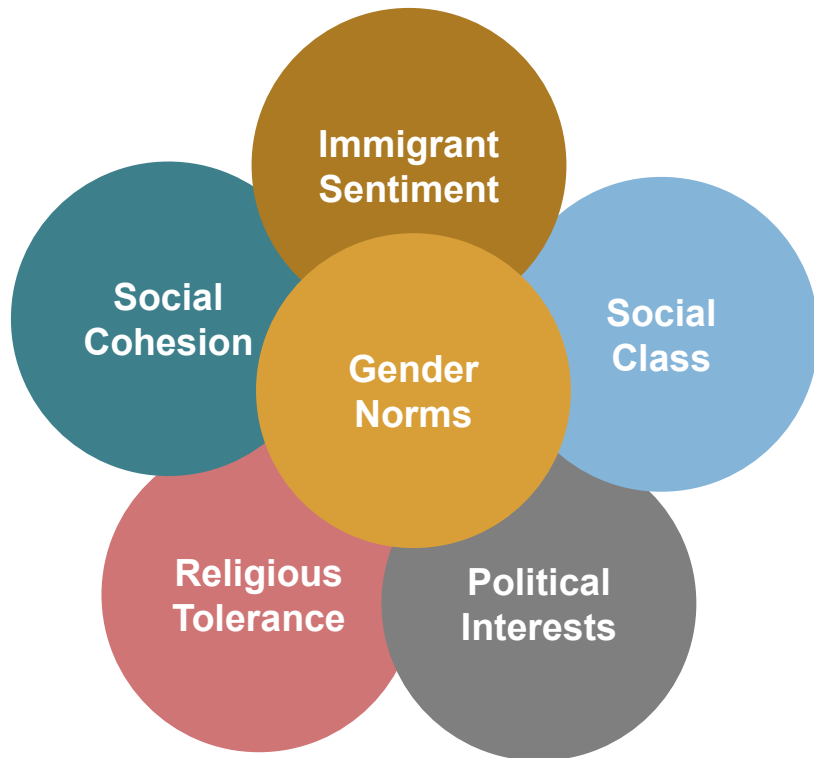
GeNorms is powered and built on argon Bootstrap4 dashboard template

GeNorms

Sub-National Disparities in Gender Equitable Attitudes

Gender equitable attitudes is highest in the Southern region for both men and women in Nigeria. Across all the regions except North-West, women have a significantly high gender-equitable attitudes compared to men.
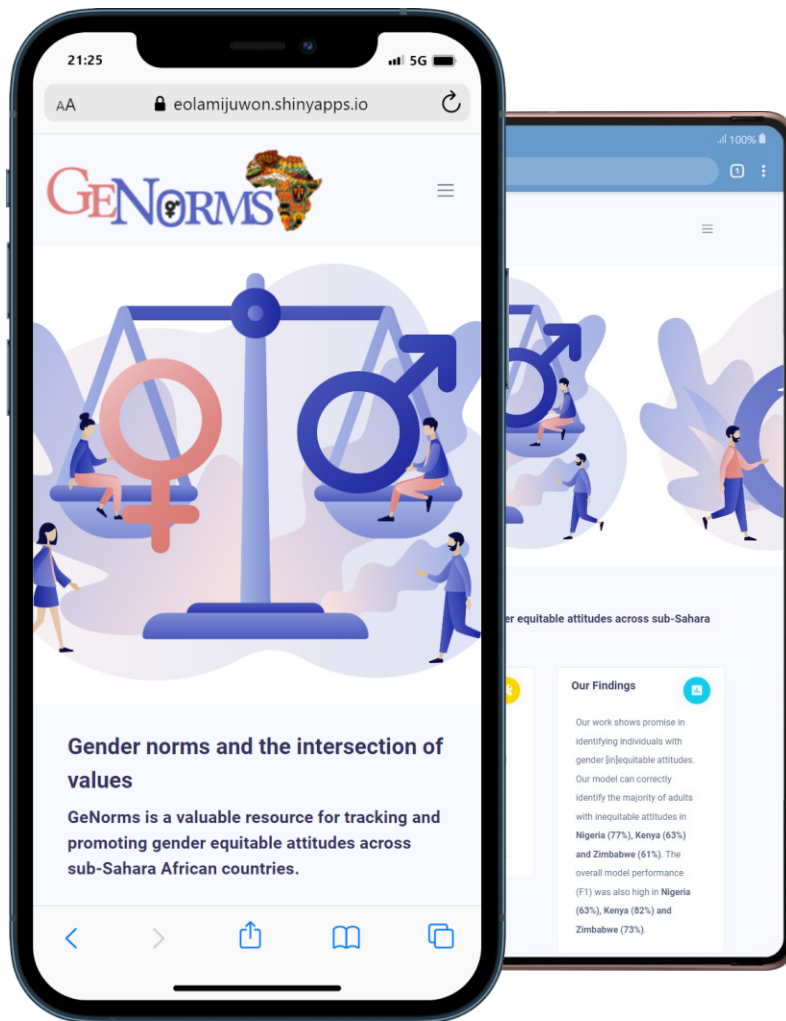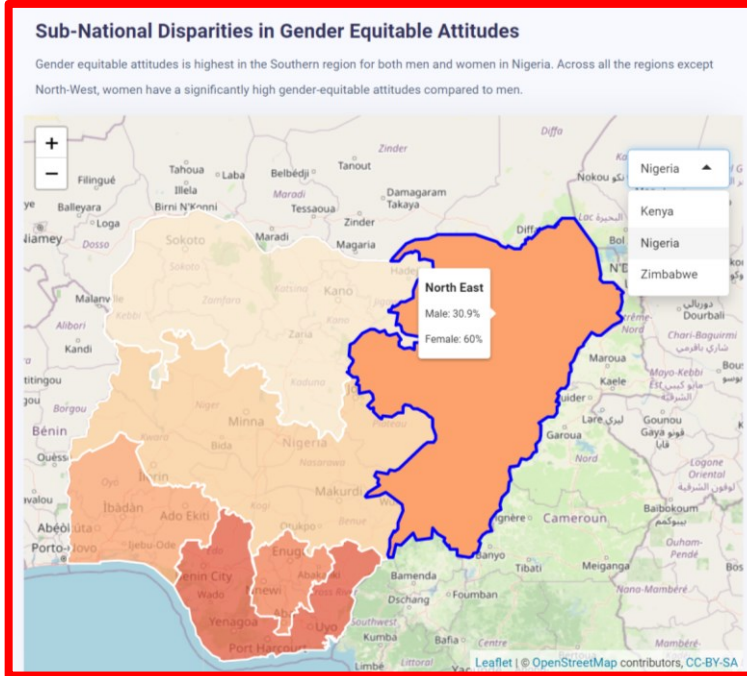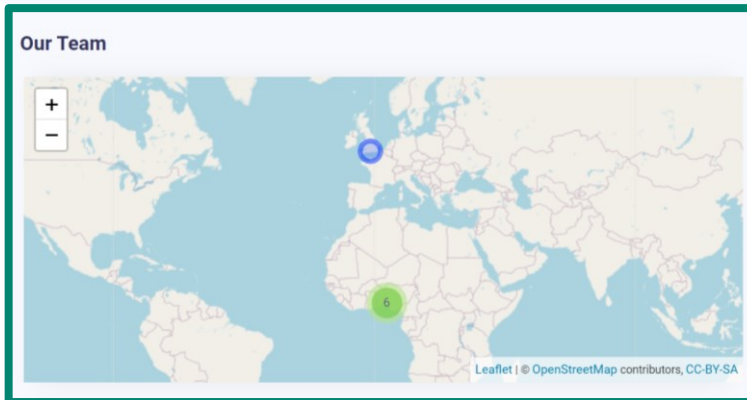
Nigeria

Kenya
Nigeria
Zimbabwe

North East
Male: 30.9%
Female: 60%

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Take the test

Our Team

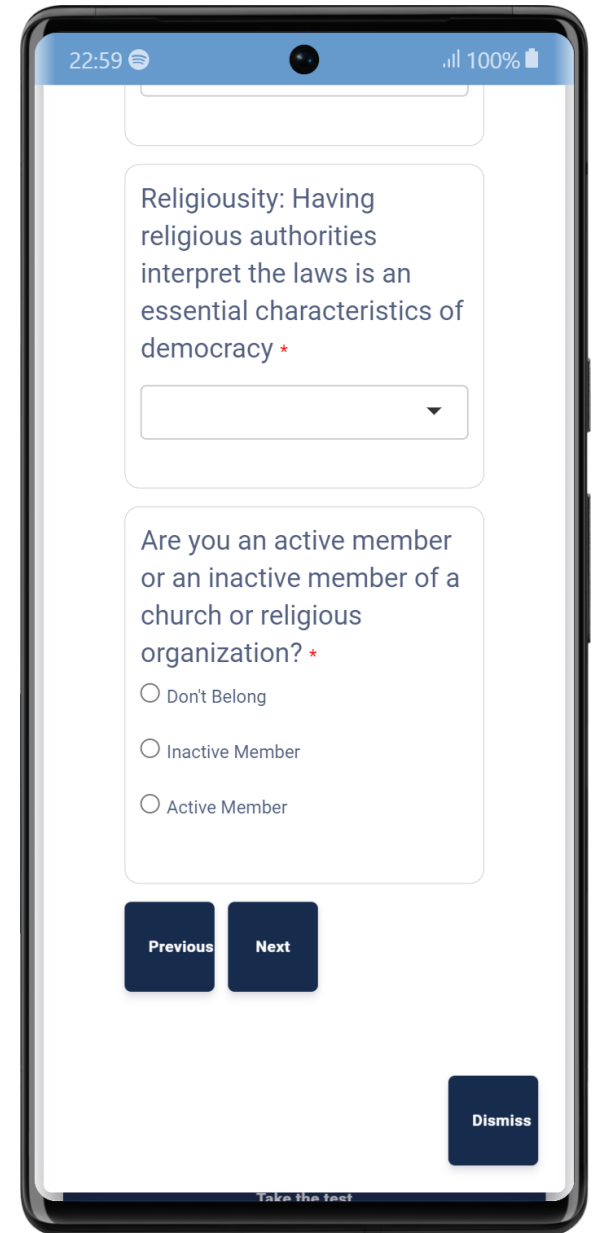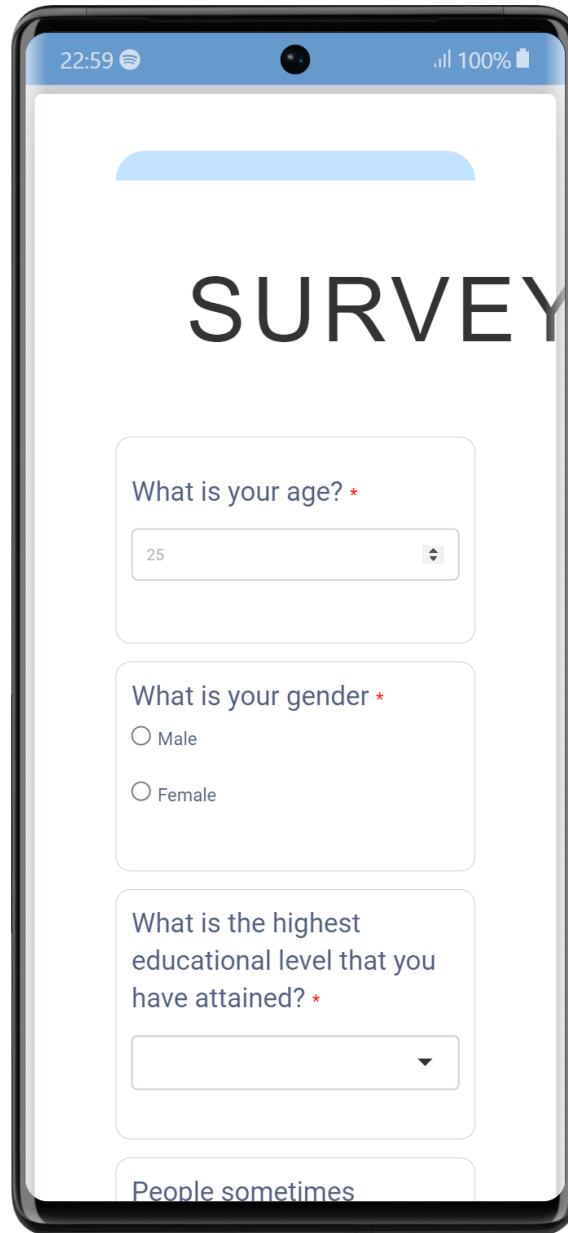Leaflet | © OpenStreetMap contributors, CC-BY-SA

Gender norms and the intersection of values

GeNorms is a valuable resource for tracking and promoting gender equitable attitudes across sub-Sahara African countries.

The Problem

Harmful gender norms deny girls their rights to education, health and independence. In this project, we sought to understand values that intersect with gender inequitable attitudes.

Our Approach

We leveraged an international dataset on changing values and their impact on social and political life to predict gender equitable norms. Our models were developed and validated on data from **3,519 adults** in Zimbabwe, Nigeria and Kenya.

Our Findings

Our work shows promise in identifying individuals with gender [in]equitable attitudes. Our model can correctly identify the majority of adults with inequitable attitudes in **Nigeria (77%), Kenya (63%) and Zimbabwe (61%)**. The overall model performance (F1) was also high in **Nigeria (63%), Kenya (82%) and Zimbabwe (73%)**.

Sub-National Disparities in Gender Equitable Attitudes

Gender equitable attitudes is highest in the Southern region for both men and women in Nigeria. Across all the regions except North-West, women have a significantly high gender-equitable attitudes compared to men.

https://eolamijuwon.shinyapps.io/GeNorms/

Important information before taking the test!

This application is provided "as is" without any warranty, either express or implied. By taking the test, you acknowledge that the prediction may not be 100% accurate. This app is not intended to provide legal or social guidance and should not be relied upon for these purposes. We strongly recommend that you consult with a specialist before making any decisions based on the predictions or suggestions provided by this app.

I agree, take me to the test ->

Dismiss

Arusha
Moshi
Malindi
Arusha
Mombasa
Manyara
Tanga

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Take the test

SURVEY

What is your age? *

25

What is your gender *

◯ Male

◯ Female

What is the highest educational level that you have attained? *

[dropdown ▼]

People sometimes

Religiousity: Having religious authorities interpret the laws is an essential characteristics of democracy *

[dropdown ▼]

Are you an active member or an inactive member of a church or religious organization? *

◯ Don't Belong

◯ Inactive Member

◯ Active Member

Previous   **Next**

Dismiss

Take the test

Based on our algorithm and the data that you have provided, we think you might believe that **men and women should not be treated equally**

Political system: **Moderate**

Immigrant sentiments: **Low**

Religious tolerance: **Low**

Social cohesion: **Moderate**

Gender roles: **Low**

You scored low on gender roles and cultural attitudes. This is very critical particularly because harmful gender norms deny millions of girls their right to education and important opportunities to advance their health and wellbeing

Share on Twitter

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Our Team

Developed by: GeNorms Team, 2022-

Scan me to explore GeNorms

https://eolamijuwon.shinyapps.io/GeNorms/

CSS4SDG Group | Thank YOU

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SICSS-Accra is accepting applications from postgraduate students, early-career academics and researchers from all African countries, fields of study (*e.g. Computer Science, Social Science, Public Health, Statistics etc.*) to participate in its summer institute scheduled to take place at the Regional Institute for Population Studies, University of Ghana, Ghana from August 20 - September 2, 2023.

SICSS-Accra is planned to be an entry-level programme in computational social science. We will lay a solid foundation for computational social science during the summer institute through several activities such as invited lectures, research happy hour, tutorials and participant-led group research projects.

There is some funding to cover participants travel expenses, meals, and accommodation.

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