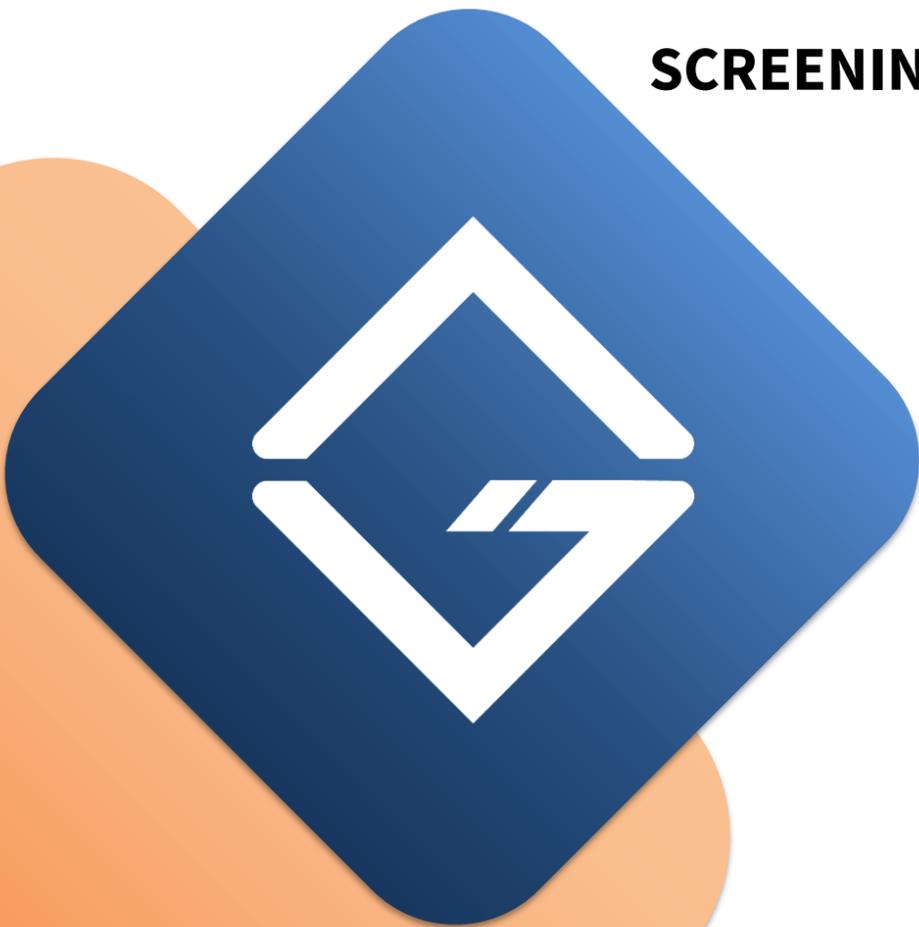




**The Amber Group's
Covid-19 Technology
Solution**

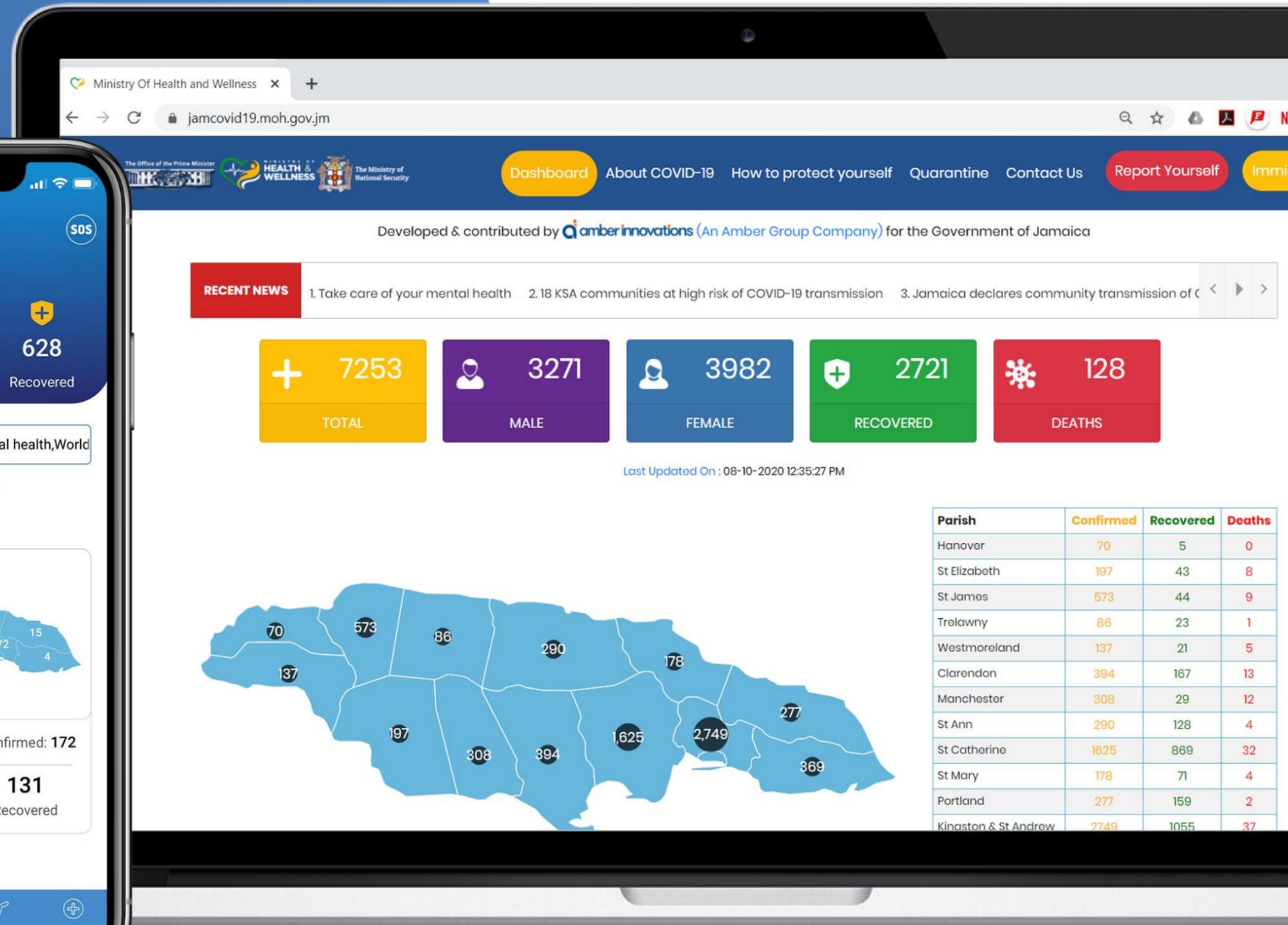
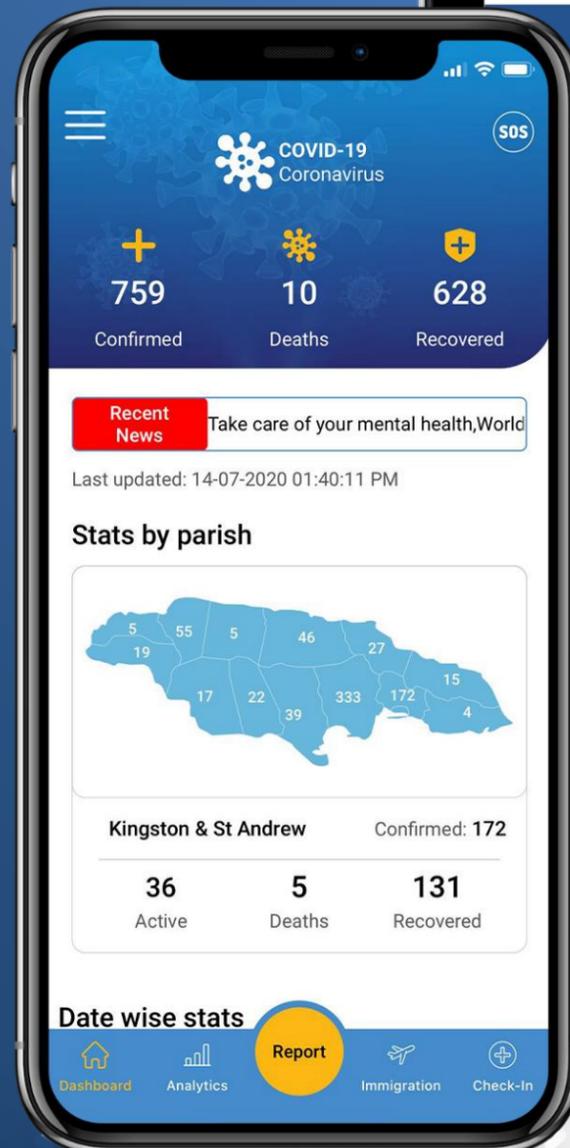
**HELPING COUNTRIES TO TAKE CONTROL OF THEIR COVID-19 HEALTH CASE
MANAGEMENT SYSTEMS, INITIATE IMMIGRATION AND PORTS OF ENTRY
SCREENING, AND SECURE TRAVELERS CONTACT TRACING AND TRACKING**



The Website and Application

“Prime Minister Andrew Holness commends the Amber Group which has partnered with the government to create the Jamcovid19 technology solution. The website and app represents the GOJ’s centralised source of information and tools to fight the COVID-19 pandemic.”

— Jamaica Gleaner



- The comprehensive, interactive, simple to manage/use website and mobile applications for Android and iOS (App) allows Governments to centrally develop, manage and disseminate crucial information related to the COVID-19 pandemic. The solution includes provisions to enable travel authorization, airport screening, Tracking and Trace Management and support quarantine measures.
- The public has real time access to interact with this information.
- The digital case management features allows the tracking and tracing of confirmed or suspected cases.
- There are also a host of interactive features that also includes COVID-19 self reporting, appointment booking, and analytics, etc.

The AGL Covid-19 Technology Solution Modules



Health Pre-Screening, Immigration and Travel Authorization

The solution serves as a screening mechanism to pre-approve travelers through an online application process. Approved travelers are given a QR code authorization certificate. A traveler will not be able to check in or board the aircraft without this certificate.



Airport Health Screening

Visitors are screened by nurses who electronically record temperature and any other symptoms which is added to the visitor's existing digital file. Passengers then sign a consent form to be tested and participate in the country's Covid-19 visitors' protocols by downloading the app.



Self Reporting

Individuals can also self-report and book COVID-19 test appointments as part of the case management process.



In-Country Analytics

A comprehensive and centralized source of data for Covid-19 case management. Governments can successfully track and report cases gathering information on location and density of persons who may be exposed to or have symptoms of the virus.



Quarantine Management

Through the app, Governments can implement the country's quarantine protocols. The solution allows for the tracking of high risk nationals and incoming travelers and includes geofencing capabilities and video check-ins that detect any breach in the quarantine requirements.



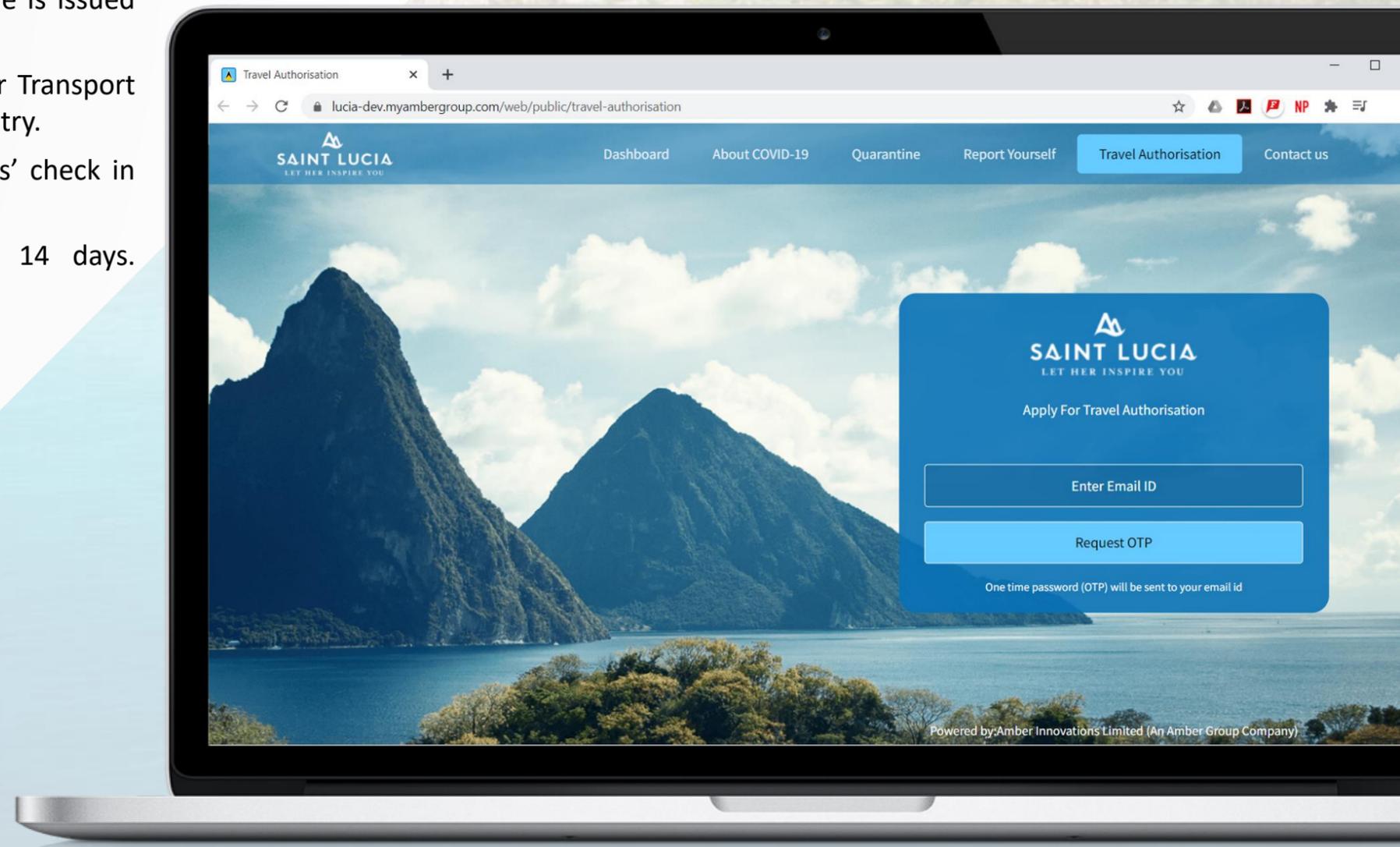
Wearable Tracking Solution

The solution allows for tracking devices to be worn by high risk nationals and incoming travelers to monitor location with geofencing capabilities that detect any breach in the quarantine requirements.

Module 1:

Health Pre-Screening, Immigration and Travel Authorization

- As part of the Government's Pre-screening, Immigration and Travel Authorization protocols, all travelers are directed to go online to fill out and submit a travel authorization health questionnaire.
- Once the application is submitted, a one-time identification number is issued via email for future correspondences.
- If visitors meet the criteria for entry, a travel authorization certificate with a QR code is issued which can be printed or downloaded to present to the airline.
- The Government will be able to update their travel protocols with the International Air Transport Association (IATA) and indicate the travel certificate is a requirement for travel to the country.
- Once this is updated, Airlines will be required to use this authorization as part of the passengers' check-in documents.
- If travelers fail to qualify for travel, the system will inform them to apply again in 14 days. A reminder will be sent to the applicant after the 14-day period.



Module 2:

Airport Health Screening

- Once in the country, visitors are also screened at the airports/ports by nurses.
- These nurses will use handheld digital devices (tablets) to record passengers' temperature as well as any other symptoms.
- This information becomes part of the traveler's overall digital file that was created when they applied for permission to enter the country.
- Once this screening is completed, visitors are then asked to sign a consent form to be tested for Covid-19 and participate in the country's Covid-19 visitors' location protocols.
- They are then required to download the app which tracks their movement on the island
- High risk visitors and returning residents can also be placed in quarantine.

 **MINISTRY OF HEALTH & WELLNESS**

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KINGSTON 5, JAMAICA, W.I.
Tel: (876) 633-7400/7433/7771/8172/8174
Website: www.moh.gov.jm

NOVEL CORONAVIRUS (2019nCoV) PREPAREDNESS AND RESPONSE PLAN FOR OUTBREAK CONTROL

QUARANTINE ORDER - HOME

CONTROL MEASURES FOR PERSONS WITH POSSIBLE EXPOSURE TO 2019nCoV

You have, or might have, been exposed to the 2019nCoV virus through travel or contact. Infection by the 2019nCoV virus is an acute respiratory infection that may present with mild, moderate, or severe illness and may be fatal. The symptoms of acute respiratory infection, including fever, cough, sore throat and difficulty breathing, as well as diarrhoea, vomiting, abdominal pain, chest pain. Symptoms may appear anywhere from two (2) to fourteen (14) days after exposure to the 2019nCoV virus. People may be able to transmit infection beginning one day before they develop symptoms to up to 7 days after they get sick. The 2019nCoV virus is transmitted by spread most often by respiratory droplets from an infected person. If 2019nCoV spreads in the community, it would have severe public health consequences.

RISK CLASSIFICATION

Based on the information you provided, at this time your risk of exposure to 2019nCoV has been assessed as:

High risk

Low (but not zero) risk

As a result of your possible exposure to the 2019nCoV, the following public health control measures detailed below are being implemented. These measures include contact with the _____ Health Department at least twice daily to monitor for signs and symptoms of 2019nCoV for fourteen (14) days, starting after your last date of exposure.

Module 3:

In-Country Analytics

"Inside the app, you have everything from information about quarantine or COVID. You have your symptoms assessed and if you need a test, you can have a test scheduled for you inside the app. We are also prompted at six random times a day to upload a temperature check and a video. It has voice and facial recognition,"

- Takema Robinson US Visitor and app end user

Features

- Parish Wise Statistics with map
- Cumulative and Daily cases for Confirmed, Deaths and Recovered
- Age Group
- Gender
- Tested vs Positive Analytics
- Regional confirmed cases Analytics
- Projections Analytics
- Global stats
- Mobility stats



Module 4:

In-Country Analytics: Backend

- **Dashboards**

The backend data analytics can generate several dashboard that gives summary data visuals on a cross section of information ranging from where visitors are arriving from, where they are staying in-country to visitors density in various parishes etc.

- **Case Management**

The system also provides significant analytics on Covid-19 health cases. It automatically defines the data entered and displays these in the back end with a case ticket number assigned to each case. Features include search filter to find specific case types, case status and case notes.

- **User Management**

Allows various user creation with specific access/permission for each user. In this way Immigration authorities will have access to Immigration information, Health information to health information etc.

- **Parish Management**

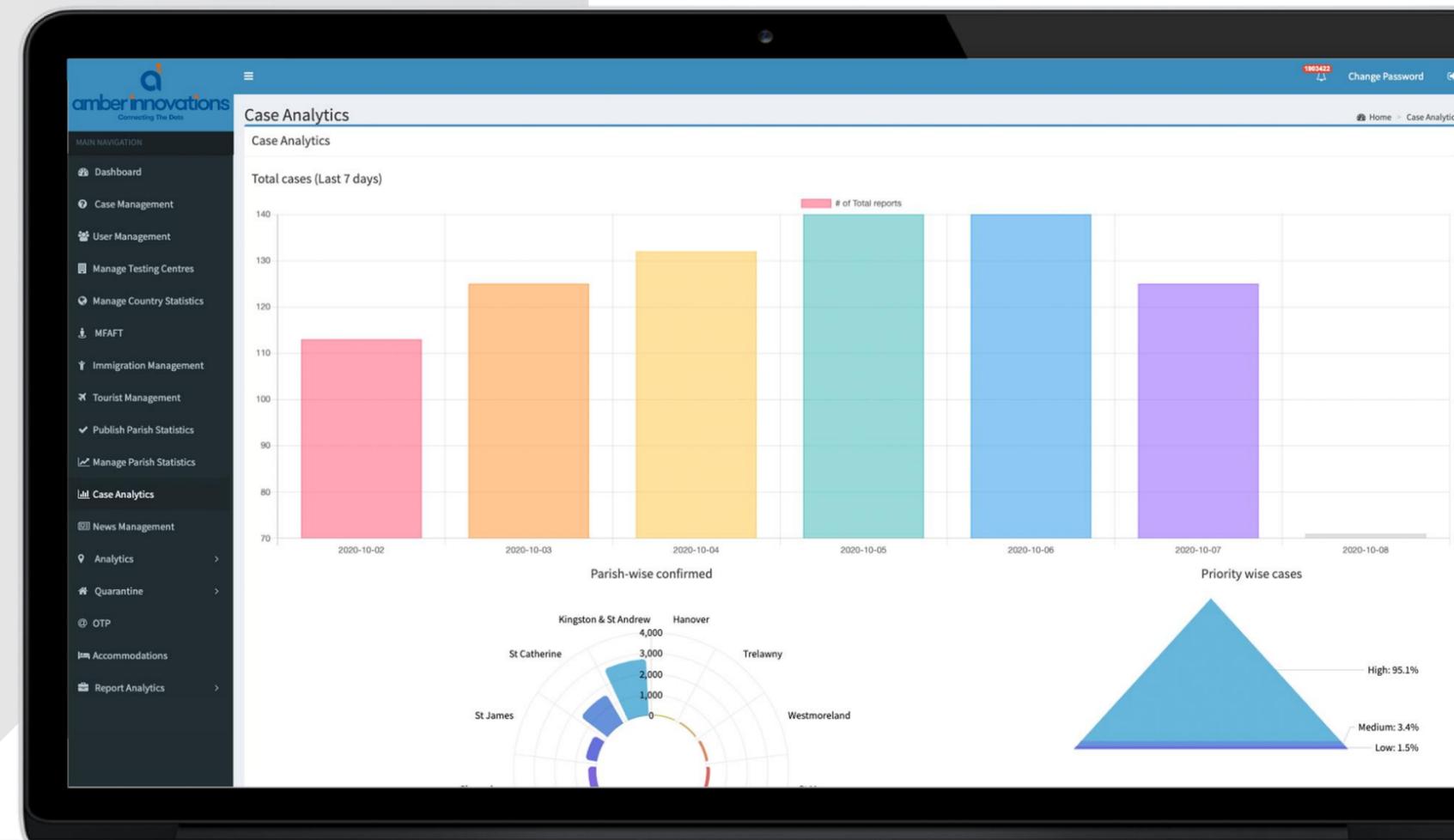
Data can be assimilated and segmented so that there is specific information/statistics by parish.

- **Country Statistics**

Allows the input for data for the analytics displayed on the front end.

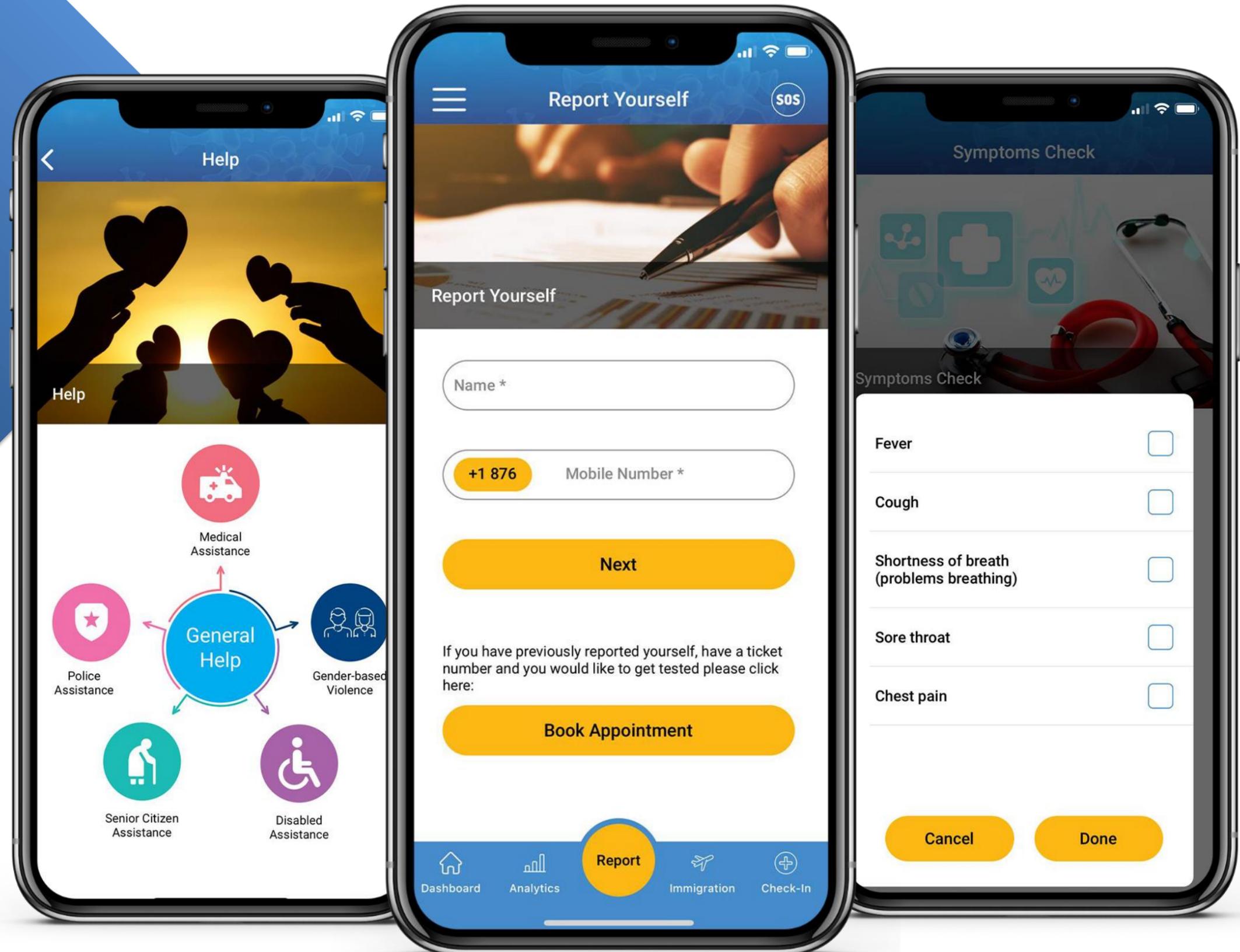
- **News Management**

Allows to curate content for news headline and weblink that is displayed outside.



Module 5: Self Reporting

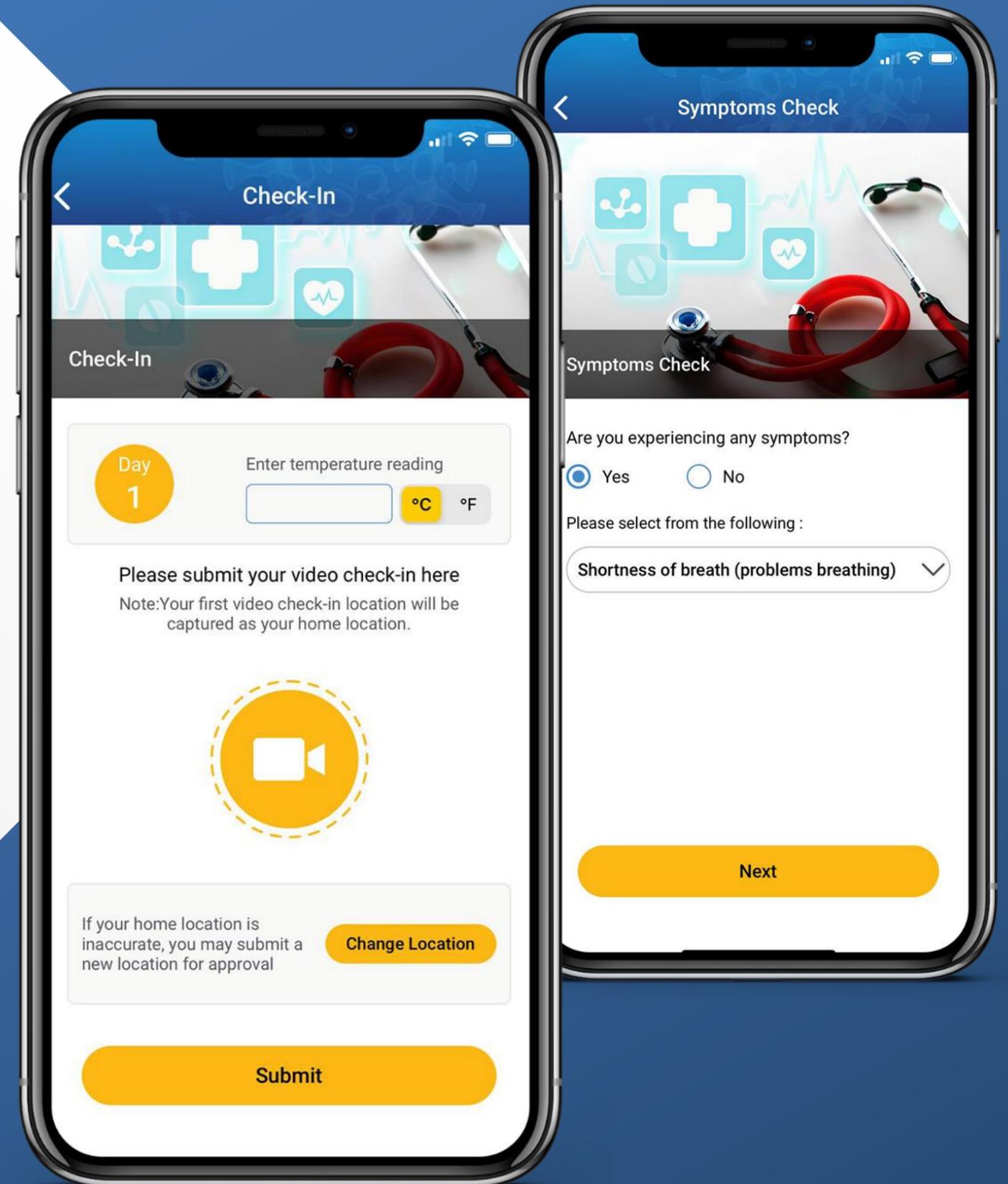
- Citizens are able self-report their health status and book an appointment for testing.
- They can also request emergency services, such as the police or ambulance services.



Module 6:

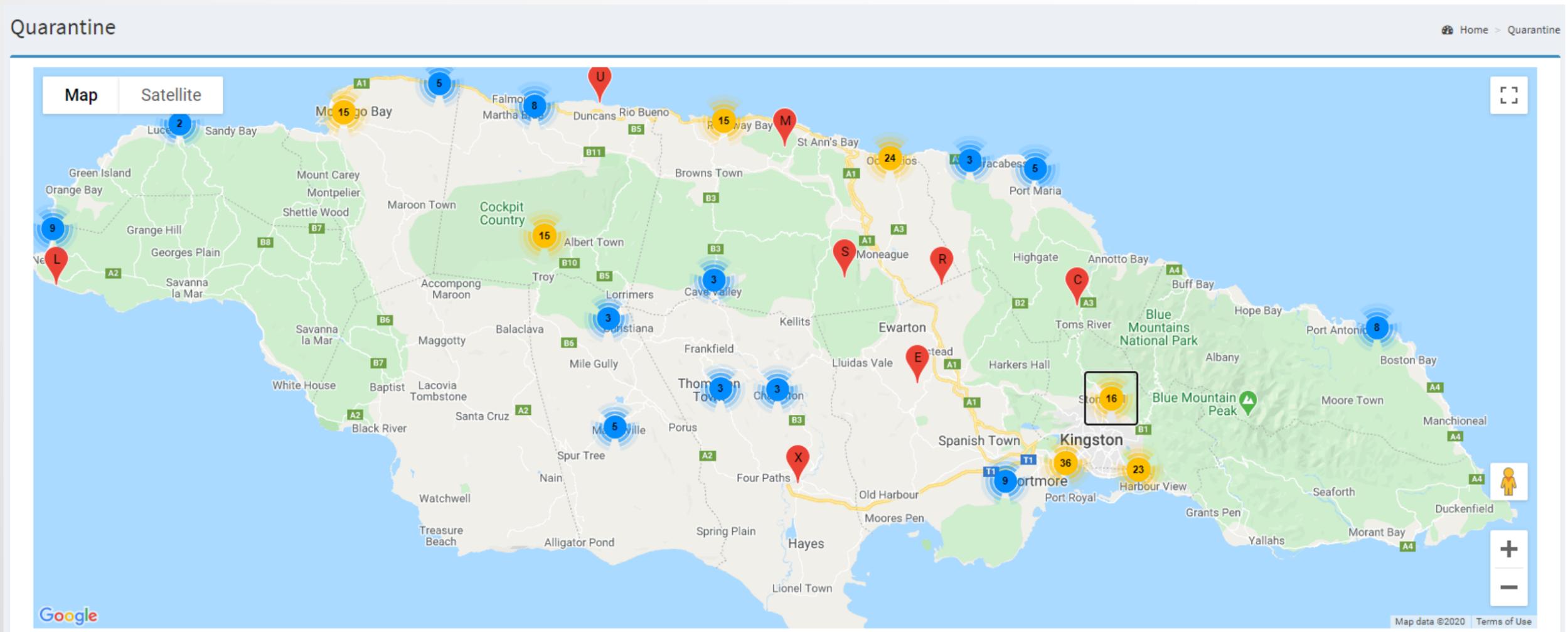
Quarantine Management

- The app can also be used as part of the Government's quarantine protocols.
- Returning residents and visitors can download the app and do a self check in that would store the location of the person and geo-fence the location for quarantine.
- The system automatically check the users location every 30 minutes and alerts the command center portal if the person is not in his geo-fenced quarantine location.
- Users would also be required to do a video check a few times a day when they receive a notification sent randomly by the system throughout the day.
- If the person does not do their video check in within 15 minutes of receiving the notification, it will send an alert to the command center.
- The system will also prompt the user to upload their temperature and symptoms that will allow the health Ministry to monitor their case.



Quarantine Management – Backend

- Once someone is placed in quarantine, the app automatically geo-fences that individual location and checks the users location every 30 minutes.
- If the individual leaves the geo-fenced area, the app sends out an automatic alert to the command center
- The alert can also be linked to the security forces who will be responsible for ensuring they person is placed back in quarantine.
- The random video check-in sessions also provide an additional layer of security and allows command center to verify that the person is actually in the quarantine location.
- Additional information on the individual temperature and symptoms uploaded during the video sessions are also recorded into the individual digital health file and helps with the overall statistics of recovery rates etc.



Module 7:

Wearable Tracking Solutions

- The solution allows for tracking devices to be worn by high risk nationals and incoming travelers to monitor location with geofencing capabilities that detect any breach in the quarantine requirements.
- Checks proximity with other devices and alerts users to Social Distance
- Devices will allow for Alerts, such as Non-movement, Man Down, Tamper, High temperature



Data storage and Accessing Permission

- All data is stored in the Country's/Government data storage systems
- Working with the overall Project Manager access permission is granted to specific Ministries and authorities
- Immigration authorities will only be able to access immigration related information
- Health Ministries will only be able to access health related information
- Security authorities are only informed when breaches in quarantine



About the Amber Group Limited

“SOCIALY RESPONSIBLE SERVING A BIGGER PURPOSE”

The Amber Group Limited (AGL), is a technology conglomerate, based in Jamaica with operations in 22 countries including India, Africa, the U.S., Canada and the Caribbean, with a philosophy of enabling the greater social good through technology at the center of its operating model, the Company has developed a significant track record for innovative solutions to address the challenges and opportunities in our digital world.

AGL currently operates brands such as Amber Connect (Vehicle tracking and Fleet Management), Amber Pay (QR code payments & rewards solutions for merchants & customers), Amber Fuels (a complete digitization solution for fuel forecourt payments and rewards) and Amber Innovations their Software Development Arm with over 200 multi-stack dedicated in-house developers.



amber connect



amber innovations



amber fuels



amber pay



amber rewards



amber aura