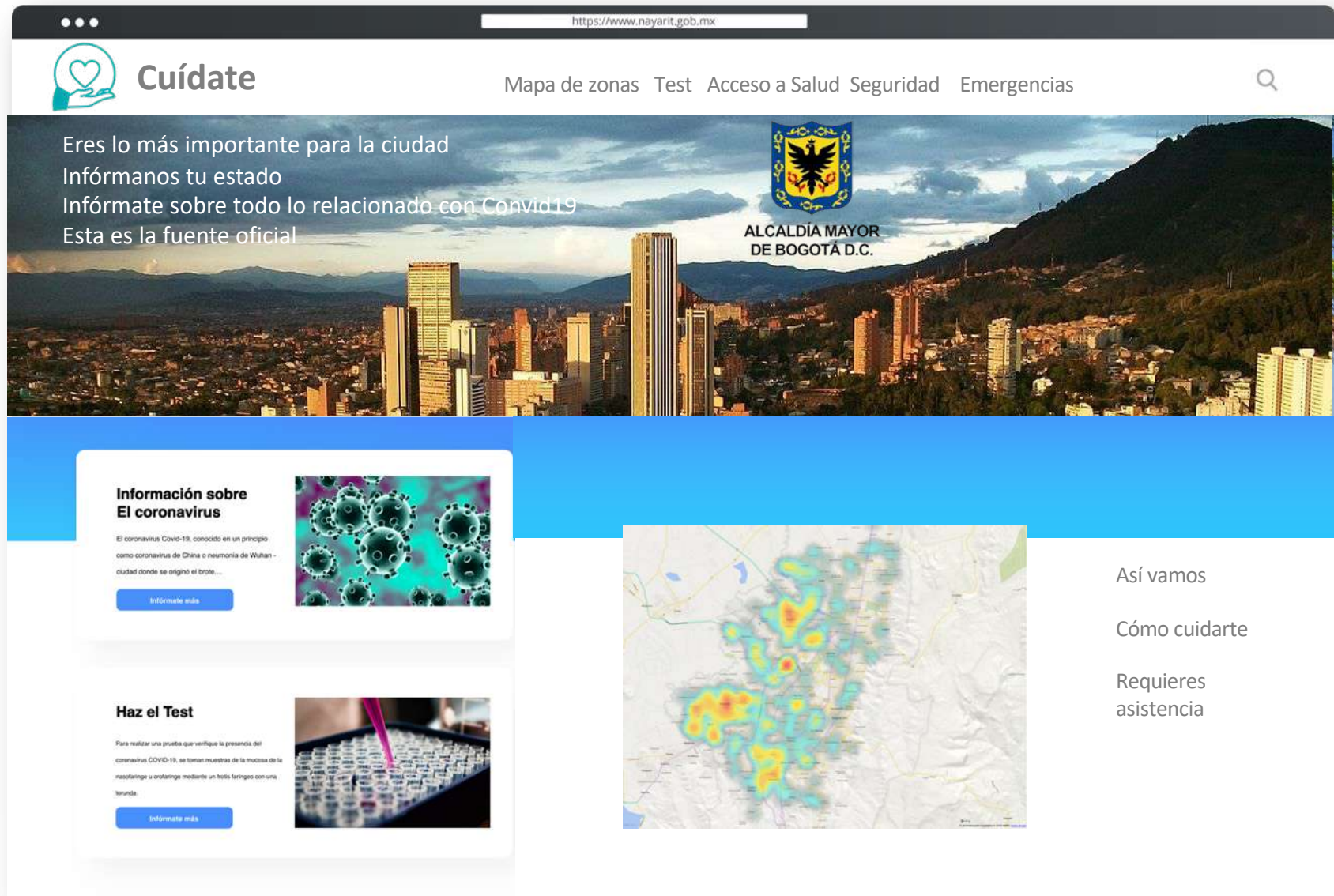


COVID-19 SJU AIRPORT BIOLOGICAL BORDER

MANAGEMENT AND CONTROL
PLATFORM BASED ON BIG DATA
AND REAL-TIME CONTACT TRACING





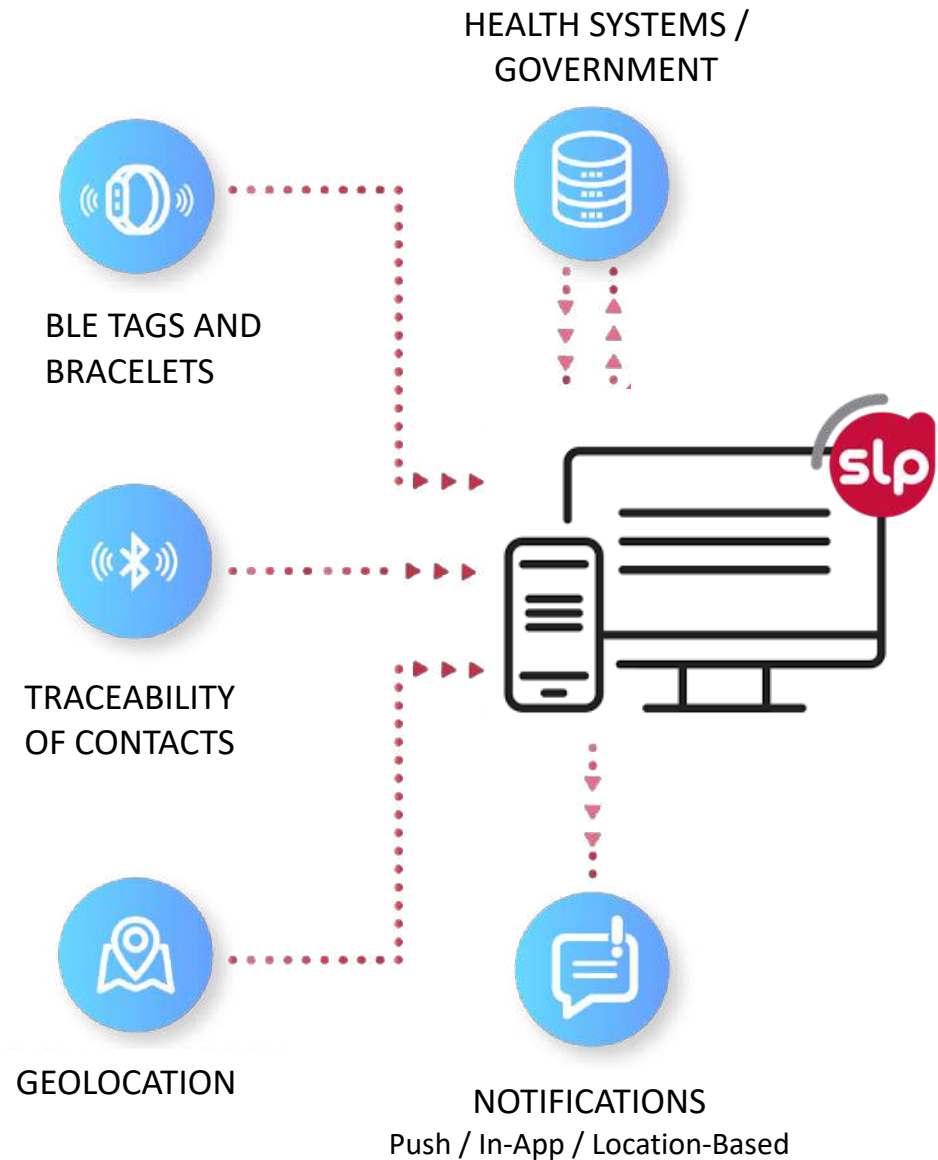
PROPOSAL SERVICE SUPPORT FOR COVID-19 CONTROL IN REAL-TIME USING ARTIFICIAL INTELLIGENCE PLATFORM AND BIG DATA

OUR TECHNOLOGICAL PROPOSAL

Our Big Data and Location Intelligence-based platform provides a system for governments, health systems and private sector to manage, monitor, and control COVID-19 propagation quickly, securely, and scalable.

Always complying with GDPR and our ethical values at the level of data protection, and given the sensitivity of Contract Tracing data, we propose a customized and on-premises solution that allows to guarantee user privacy avoid capturing any personal data.





COVID-19 MANAGEMENT AND CONTROL PLATFORM BASED ON BIG DATA AND LOCATION

COVID-19 INFORMATION, ADVICE, TRACEABILITY AND DATA-DRIVEN DECISIONS AT YOUR FINGERTIPS



GOVERNMENT/SECURITY

- Expats flying into SJU (Luis Muñoz Marín Airport)
- Returnees
- Known infected people
- Airport employees
- Temporary workforce arriving to PR
- Tourists / other passengers

COVID-19 MANAGEMENT AND CONTROL PLATFORM BASED ON BIG DATA AND ARTIFICIAL INTELLIGENCE



- Allows monitoring of quarantined patients with suspected COVID-19 in real-time



- Provides time -based location record of patients with suspected COVID-19



- Automatic notifications to mobile apps



- System generated check with acknowledgment from the patient



- Missing, tamper, and low battery alerts to administrators and suspected patients



- Easy tag to cloud access via phone (app) as gateway

COVID-19 HOW IT WORKS?

Tamper proof tag
assigned to
subjects



- Secure identifier
- Tamper alert
- Low battery alert

App for onboarding
of subjects and
monitoring tags



- GPS-based tag location
- Time
- Notifications
- Onboarding data



- Tag Location
- Time
- Notification Alerts



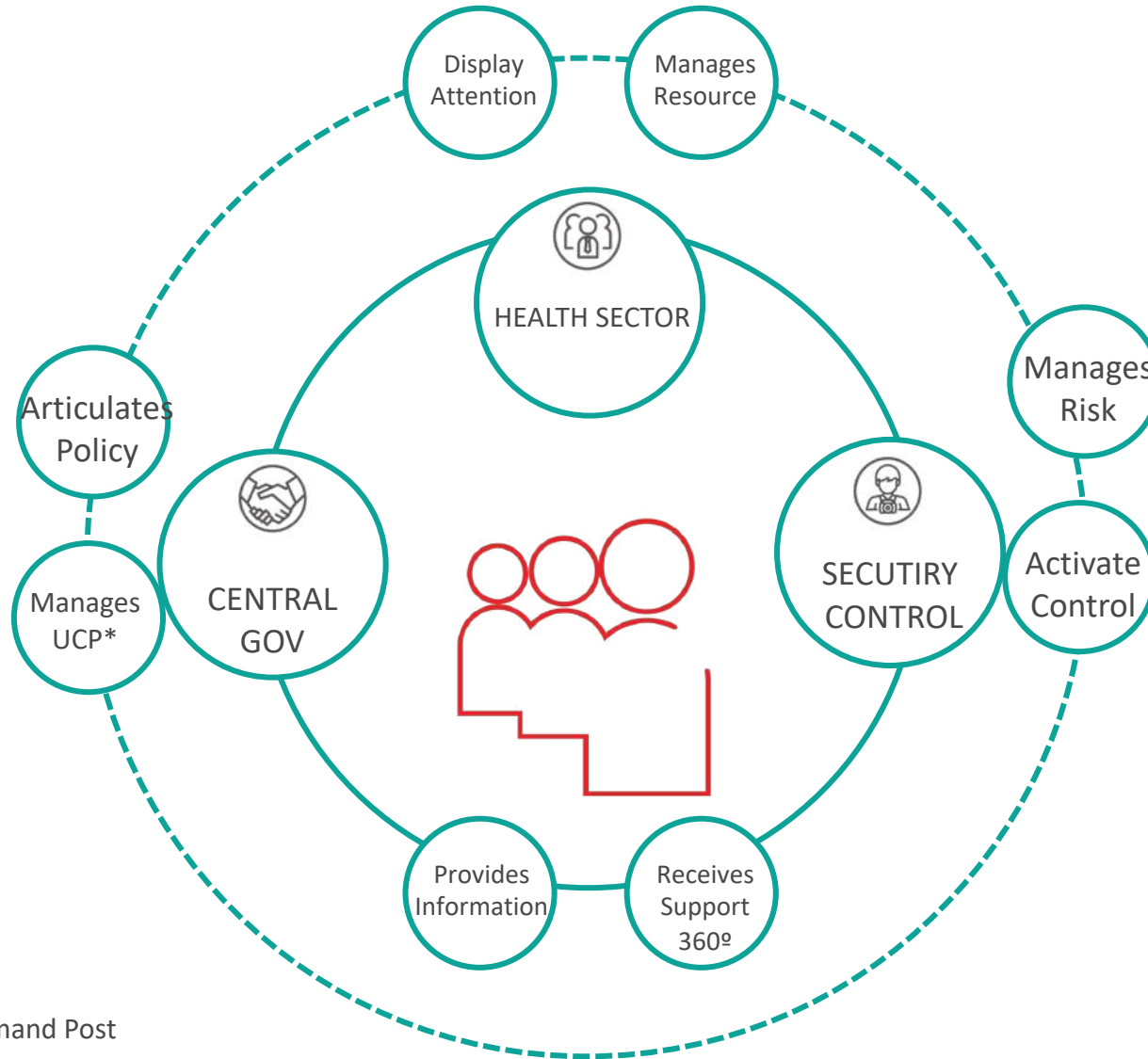
3rd party integration

COVID-19 EXAMPLE OF QUARANTINE USER FLOW



THE PERSON AS THE CENTRAL AXIS OF INFORMATION

Measure to be able to act



*Unified Command Post

COVID-19 MANAGEMENT AND CONTROL PLATFORM BASED ON BIG DATA AND ARTIFICIAL INTELLIGENCE

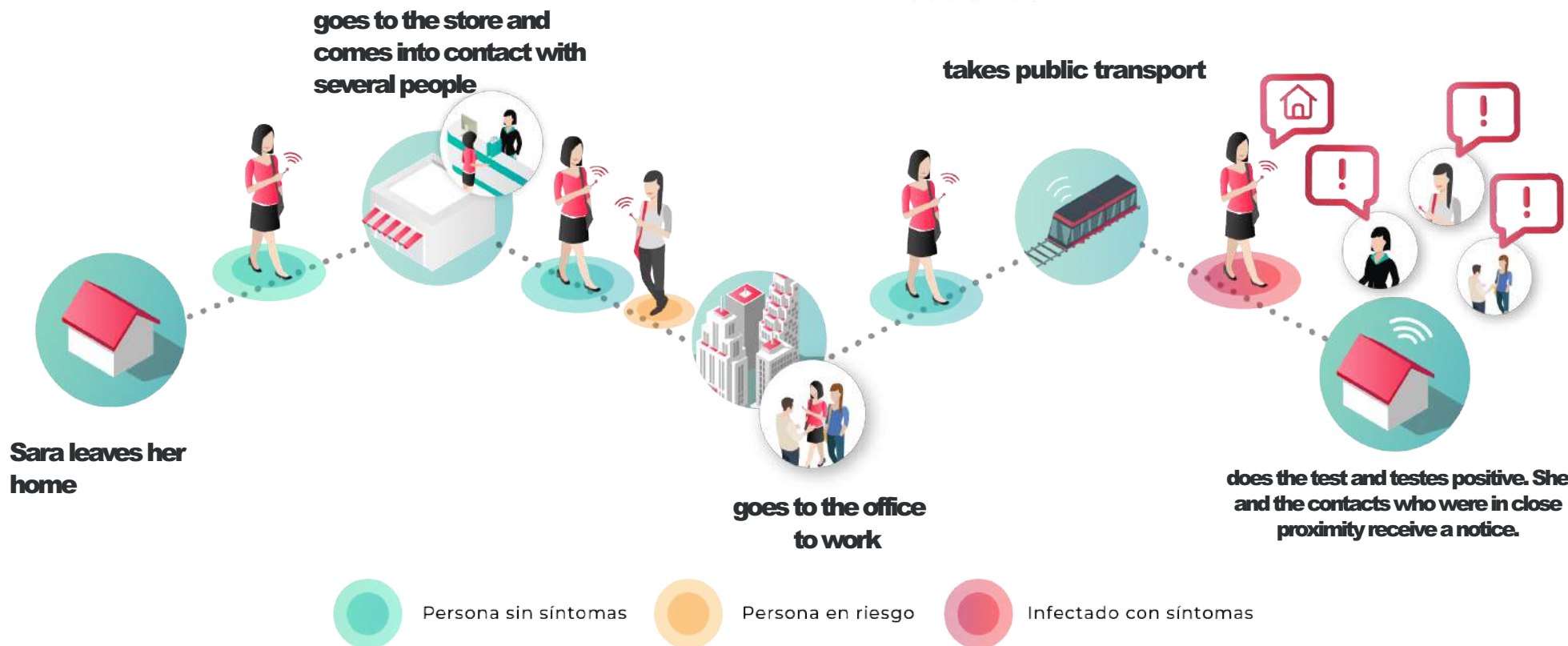
Control Center



COVID-19 MANAGEMENT AND CONTROL PLATFORM BASED ON BIG DATA AND LOCATION

- SLP SDK to integrate into any mobile app (native or Cordova)
- Detection of proximity contacts between citizens using Bluetooth Low Energy (BLE), to find out if anyone has been in contact with an infected patient. (The data is only disclosed if positive cases occur.)
- Automatic user mobility tracking via GPS/Wifi/Cellular with approximately 50-100 meters accuracy and low battery consumption and proactive GDPR management.
- Automatic sending of alerts to inform when a user exits/enters a geofence (e.g. confinement, risk zone, etc.).
- Segmentation of people according to their category or health status (infected, at risk, users who have not taken the test, etc.)
- Real-time, geolocation-based Big Data analytics with heat maps to see areas of contagion.

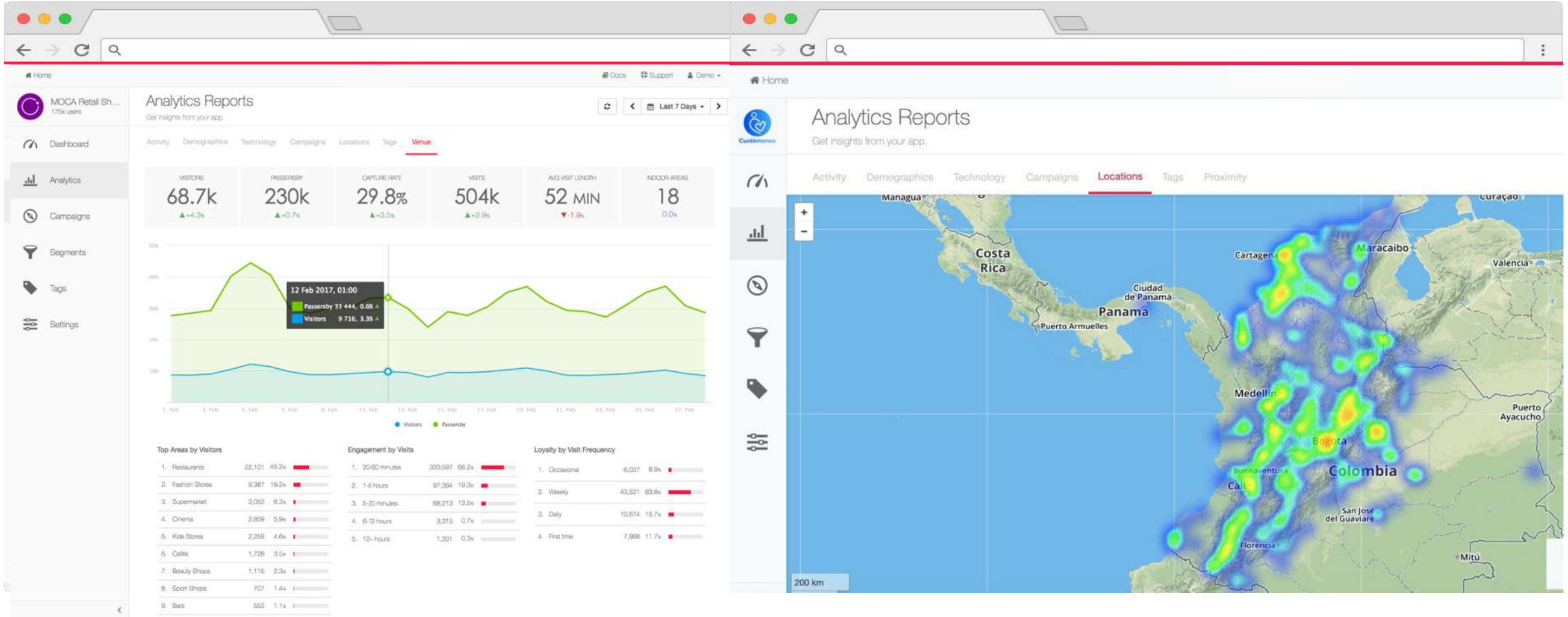
COVID-19 MANAGEMENT AND CONTROL PLATFORM BASED ON BIG DATA AND LOCATION



If we ask Sara for a list of the people she has been with, she may very well forget some, not have contact with others, or have simply been unknown to those she has been in casual contact with.

What our system allows is to know those people with which Sara has had contact and to be able to send them quickly and automatically a message

COVID-19 MANAGEMENT AND CONTROL PLATFORM BASED ON AI



BENEFITS OF THE PLATFORM FOR ACTORS



HEALTH SECTOR

- Measuring perceived health indicators
- Comparison of data monitored by App with objective health data
- Act when the citizen requires it in the location that Health departments recommend
- Measuring medical visits to hospitals in real time
- Capacity assessment of hospitals in the area with most urgent cases



CITIZENS

- Preventive measures information
- Case information in your area to trigger containment
- Real-time communication with the state
- Request for assessment of your health status at home
- Low feeling of isolation even if confined
- Risk Zones and Automatic Tags Report
- Restricted mobility



GOVERNMENT/SECURITY

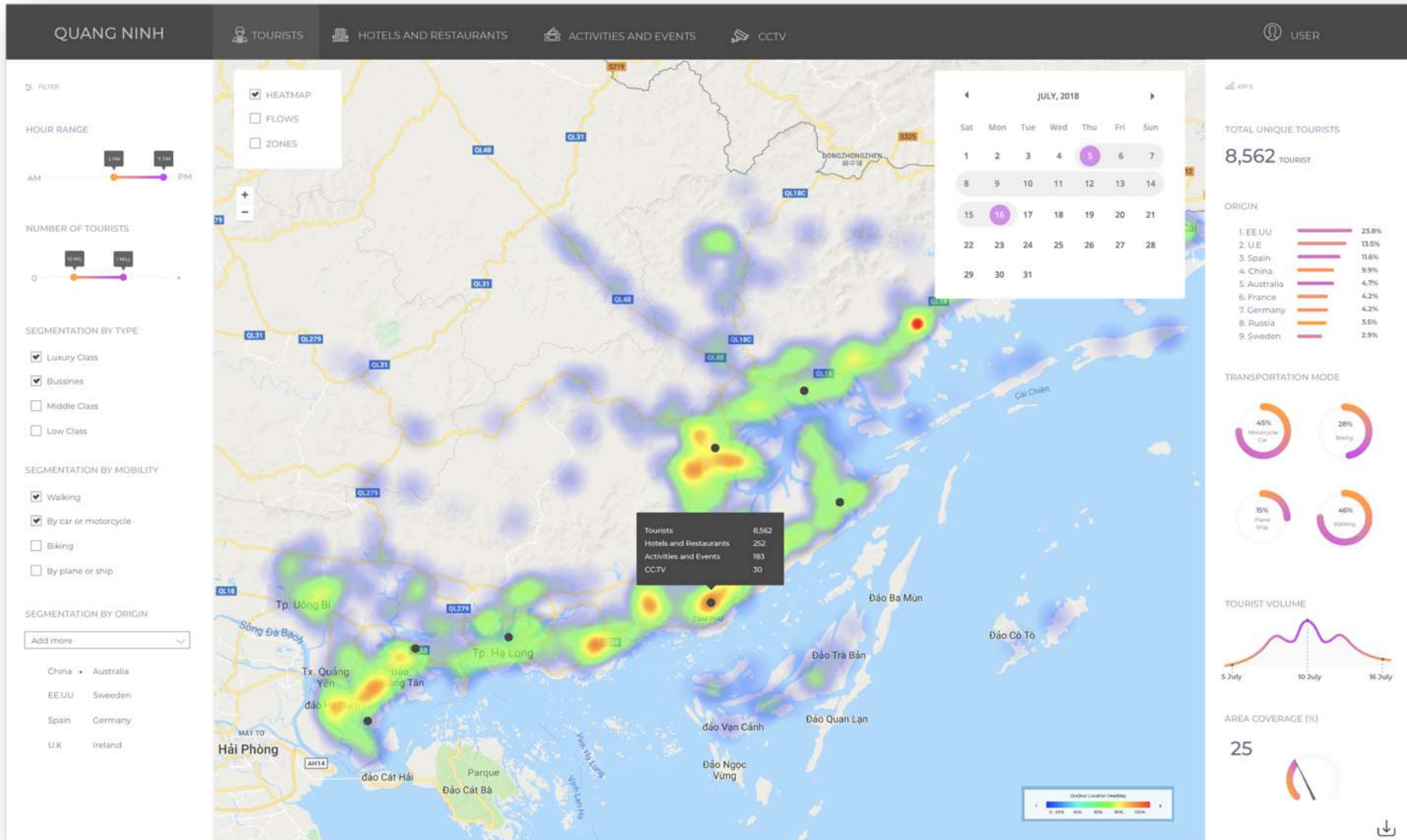
- Real-time information on places with more cases
- Geo-Location of confined tourists
- Enforcement of public policies to prevent contagion
- Real-time information on monitored cases
- Understanding people's behavior to eliminate risks through immediate and predictive actions
- Population segmentation



BUSINESS SECTOR

- Decreasing the slowdown in the economy
- Monitoring employee health status
- Real-time monitoring of government officials on their job site.
- Containment of the spread of the disease
- Compliance with SSL regulations.
- Increased sense of well-being and normality.

COVID-19 MANAGEMENT AND CONTROL DASHBOARD WITHIN THE UNIFIED CONTROL CENTER (UCC)



REQUIREMENTS FOR IMPLEMENTATION



HEALTH SECTOR

- Working with health policy teams to help them make data-driven decisions



CITIZENS

- Massive use of the App to be able to plot all the relevant information
- Always allow geolocation and notifications



GOVERNMENT/SECURITY

- Strong actions so that citizens and tourists always have the app with communication and geolocation permissions
- Coordination with the armed forces to implement risk and control policies



BUSINESS SECTOR

- Support and promotion of the use of the platform by all employees of the company and their families.

OTHER BENEFITS OF THE PLATFORM

Our platform allows you to quickly connect with existing mobile health applications (example: STOP COVID19 CAT, 061 CatSalut Respon) and will be able to detect outbreaks through real-time geolocation of users. This will allow us to know which areas are most infected or prone to becoming infected so that the Government takes appropriate action.

- Real-time dashboard for Coronavirus test tracking of all users to see their evolution.
- Communication module to send messages between Health sector/Government and citizens (to avoid collapse of phones lines and the health systems)
- Alert system to inform when a user marked as "infected" leaves a radius approx. 50 m. (citizen will get a push message telling them to return home)- Geofencing
- Analytics and Case Monitoring by Geolocation
- Number of users registered in the App
- Number of users who take the test and segment those users (infected, with symptoms, no symptoms, etc.)
- Immunity passports
- Number of alerts sent / Number of alerts received with the user
- List of alerts: Users who have left their confinement area.
- Number of alerts by zip code, by neighborhood and street (surveillance reinforcement in that area)
- Heat maps to see the areas of contagion



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