Beacon Emergency Dispatch Platform Enhancement

A non-profit organization faced challenges in efficiently coordinating ERTs due to outdated mapping tools and infrastructure. ABCloudz played a pivotal role as a partner, providing modernization services for their crisis response platform.

The challenge

1. Embedding advanced mapping features and integrating diverse map providers to secure a consistent & effective navigation experience for users. 2. Ensuring real-time data synchronization across various devices, which is essential for accurate & timely emergency responses 3. Maintaining high performance while scaling amid growing user demand & supporting small, financially constrained non-profits.

The solution

Apart from developing effective solutions by utilizing various components of Google Cloud, we strategically delved into the Google Maps Platform. 1. Developed "Map Driver" – a custom abstraction layer that unified the interactions with different map providers. 2. Implemented the dark mode feature, crucial for low-light conditions. 3. Integrated the Traffic layer & Employed the Satellite view.

The result

Comprehensive perspective of the crisis-affected areas, swift navigation in emergencies, enhanced functionality, increased efficiency, and real-time synchronization were achieved. The development of "Map Driver" prevented inconsistent user experience with multiple map sources. Additionally, Beacon was offered at reduced rates or free to small non-profits, empowering under-resourced responders.

> " Thanks to ABCloudz' enhancements, Beacon now supports a wide range of emergencies across the world, coordinating EMTs, firefighters, and other responders in locations such as Guatemala, Belize, South Africa, Puerto Rico, and beyond. Enhancing cybersecurity, push-to-talk communications, and improved mapping have transformed Beacon into a powerful tool for delivering critical emergency response. "
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> Jason Friesen | Founder / Executive Director | Trek Medics International

About Trek Medics International

Trek Medics International is a nongovernmental organization (NGO) dedicated to improving access to emergency response networks in communities through innovative mobile application technologies. This is done primarily through Beacon Emergency Dispatch platform. Every purchase of Beacon directly supports users with limited resources around the globe.
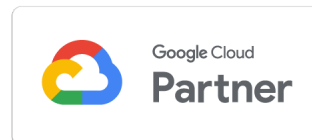
Vertical/horizontal solution: Non-Profit

Primary project location: United States

About ABCloudz Inc.

We are a trusted partner focused on web and mobile app development, AI, app and database modernization, migration, support, and monitoring solutions.

Products

Google Maps Platform