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**Name of Solution: Godzilla saves you from disaster**

**Description:** collaborative solution to provide guidance to victims of disasters.

**Project Purpose:** Implement a management platform for times of disasters, which may be due to natural causes or not.

**Roadmap**

Mature:

August 2019 to January 2020 - Development of the Manegement Module.

February 2020 to June 2020 - Collaborative Module Development.

June 2020 to December 2020- Development of the Data Acquisition Module.

Business Model

Product sales, additions, training and consulting for governments and NGOs. Consulting for iot equipment manufacturers.

**Scope of Product**

The Godzilla platform will consist of 3 distinct modules which will be: a real-time data acquisition module, a manager consultation module, and a collaborator module.

* In the Data Acquisition Module data can be received from sources registered in the system, from external sensors and from Godzilla units (IoT devices).
* In the Management Module data will be displayed on the map of the affected region. Through filter criteria this data can be better viewed.
* In the Collaborative Module used by the population, a mobile application will allow it to filter and consult information from emergency rooms, record witnessed events, make calls to special numbers and have tips on how to act in case of emergencies.

**Project Objective (s)**

* Map risk areas and possible local diseases;
* Map hospitals, shelter institutions and related professionals;
* Present information in real time of the mapped places;
* Allow user collaboration to the system;
* Access data available from other institutions.

**Architecture**

Data Acquisition Module:

The IBM Cloud IoT platform will provide the entire framework for receiving data from sensors as well as enabling bidirectional communication with devices. The Godzilla IoT devices will turn on emergency lights, enable portable routers to provide Wi-Fi networking, trigger sirens, send instructions through speakers, Acquisition images and videos and more.

Management Module:

Godzilla is made up of a robust and scalable web application to be used as a management tool by authorities. It will be integrated with the Collaborative Module (a mobile application) that will be used for communication with the population, and with the Data AcquisitionModule that makes the data ingestion.

The application is entirely hosted on the IBM Cloud and uses artificial intelligence tools to analyze large amounts of data and provide insights for making fast decisions with a speed and accuracy that we would not be able to make.

The platform is GIS based. Through map services and the REST API, uses local government data to map infrastructure information (electricity, gas, water, telecom) as well as hospitals, schools, pharmacies, shelters, etc.

Cognitive services will make it possible to transform the audio sent by the population into text and to analyze the reports, providing a better understanding of the situation as a whole.

The text-to-speech service will allow the Godzilla platform to send instructions through device-connected speakers ,alerting people in underserved areas without internet resources and without mobile phones.

Collaborative Module:

The mobile application is the direct communication channel with citizens and through it a solidarity network is formed. The population will sendinformation such as text, photos and audio quickly and easily, providing an immediate overview of the situation.

It becomes a precious source of real-time information.

It is also a rescue and SOS request tool. Allowing us to save lives and providing the authorities with status to quantify their assets and coordinate their actions.

Continuous Improvement:

Further analysis through machine learning of stored data is also critical in order to evaluate actions taken and to measure and adjust investments in equipment, infrastructure, medicines and other resources.

Godzilla is the perfect match between people and the power of computing. It allows us to prepare, inform and take actions, facing diversity with intelligence and agility.

**Collaborative Module**

The Godizilla app was created with Appinventor, an intuitive, visual programming environment of MIT.