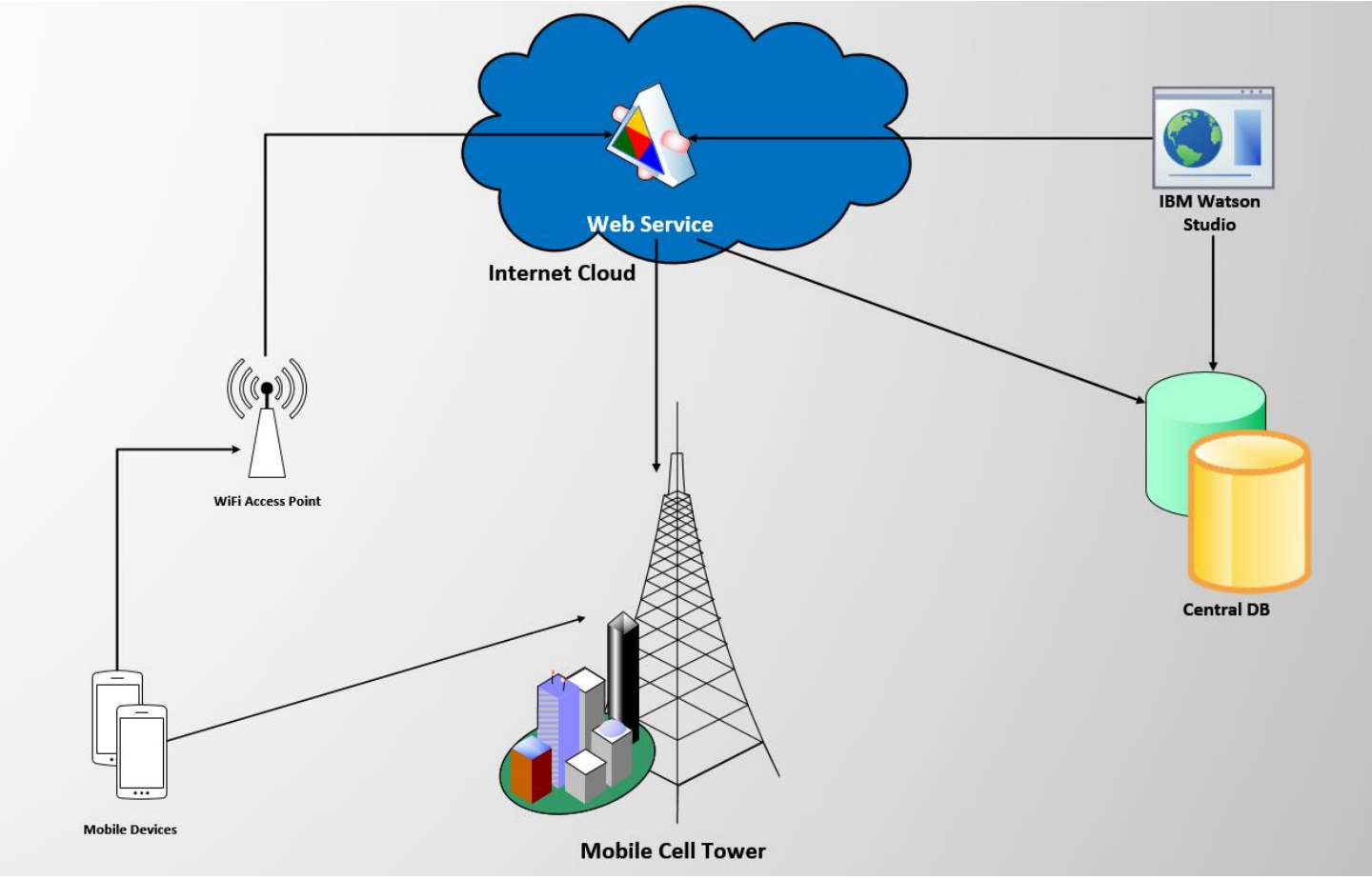
IDRAS – Innovative Disaster Recovery Activation System
Prepared by Danes John, Nafees Kazi & Nadim Bhatiwala

Solution Roadmap.

Current web solution is done on IBM Watson Studio using Spark NY, Pixiedust and Jupiter Notebook and the client based mobile app is done on Cordova.
Mobile application could be compiled in all supported platforms as we used hybrid options to enable the client solutions.

Following are the Solution roadmap for IDRAS application

- Options to collect the data from mobile tower data storage.



With this option list of all mobile towers need to be updated to IDRAS local storage so that during any calamity, authorities could
Easily mark the impacted location the map view and the required tower data will be made available. Since the unique mobile numbers
Which are connected to any tower during the duration of a time of the calamity are sensitive information. So these data could be made
available to system only by authorized departments. During natural calamities like Earthquake the chances of getting a warning alert is minimal.
And the impact due to such calamity will be vast even Internet, Power and Infrastructure could be impacted. The only possible way to identify

Possible impacted humans during the time of calamity is only be taking the unique mobile numbers connected on the towers of those locations
during the event when the calamity happens. This is one of the major road map where we need IDRAS to work on a Reactive mode.

- Options to integrate with alerting systems related to natural disasters

Once we can integrate IDRAS with other alerting systems for possible Cyclone, Food, Tsunami or other natural calamities, we could give advance notification for
people who are available on those areas were the calamity could impact. Authorities could send messages directly and provide details about the impact that could happen and
inform users to evacuate to safer places. These integrations will give authorities or rescue workers to have required time frame to evacuate people.
Wind direction during a Cyclone forms a path, alerting systems could clearly identify which locations will get possibly impacted.
Once we can integrate such systems with IDRAS we will be able to directly equate the possible impact for human life.
This will provide enough time for the authorities to plan for evacuation.

- Features that can mark the location where rescue team has already done the operation, eliminating duplicate efforts.

This will be helpful if our application generates a relevant heat map based on the number of people who are impacted, based on this data rescue operation will be planned.
There should be option for rescue workers to mark an area once the rescue is completed. This will give an indication back to the system on the number of impacted areas which are updated or not.

- Options to extent the rescue operations to non-human living creatures

We could extent the rescue operation or address the impact of living creatures other than humans as well. Calamities and impacts both human and non human living creatures as well.
There are possibilities that we could mark such locations and will provide alerts to authorities regarding