Safe City (Traveler Security Management System)

Domain*: Internet of Things*

Inspiration for the Idea:

One primary problem faced by several traveller is the blatant lack of safety when travelling, particularly at night. Quiet, dark paths void of little/any human life always spells trouble. My inspiration came from the rising issue of Women Safety and in general the protection of human life in our country. Through our project we aim to make travelling by foot or otherwise post nightfall a safer experience for all while also striving to decrease the rates of crime.

The Idea:

One primary criteria to judge the safety of a particular location would be to know if there is movement there. The general, busy hustle-bustle of several areas make it relatively safer than areas that are quieter and lack human presence. I aim to use sensors that can detect movement i.e human presence, cars etc and will show the user not just the rate of movement but also the last movement that occurred hours ago. It will provide enough information for the user to estimate how safe a particular path really is. It will be able to sense the working of street lights, temperature of that area and tell if the road is well lit or not, another estimate as to how safe an area can be.

In the event that internet is not available, we often happen upon areas where we don't know the route and have no possible way of finding out. Sensors provide an alternative solution to this, being that they will be able to detect the presence of the user as they pass by an area and direct them in the right path through a series of written instructions, that lead them to the next sensor that is closest to location the user wishes to travel to. The app that will be developed to support the information

received from the sensors will be fed with information regarding the nearest help centers/police station which the user can be guided to in the event of any trouble.

Conclusion:

Through this idea, I aim to use Internet of Things technology to connect users to sensors through apps in their phones, so that they can travel safer when they choose to move through areas by foot. Safety is a rising concern particularly in cities and having such an app fueled by IOT will make it easier for people to travel about the areas. This also helps in reducing our carbon footprint, as once it becomes safer to travel short distances even during the night, one can always choose to travel by foot.