



IoT MONITORING OF HERDS AND THE HERDSMEN

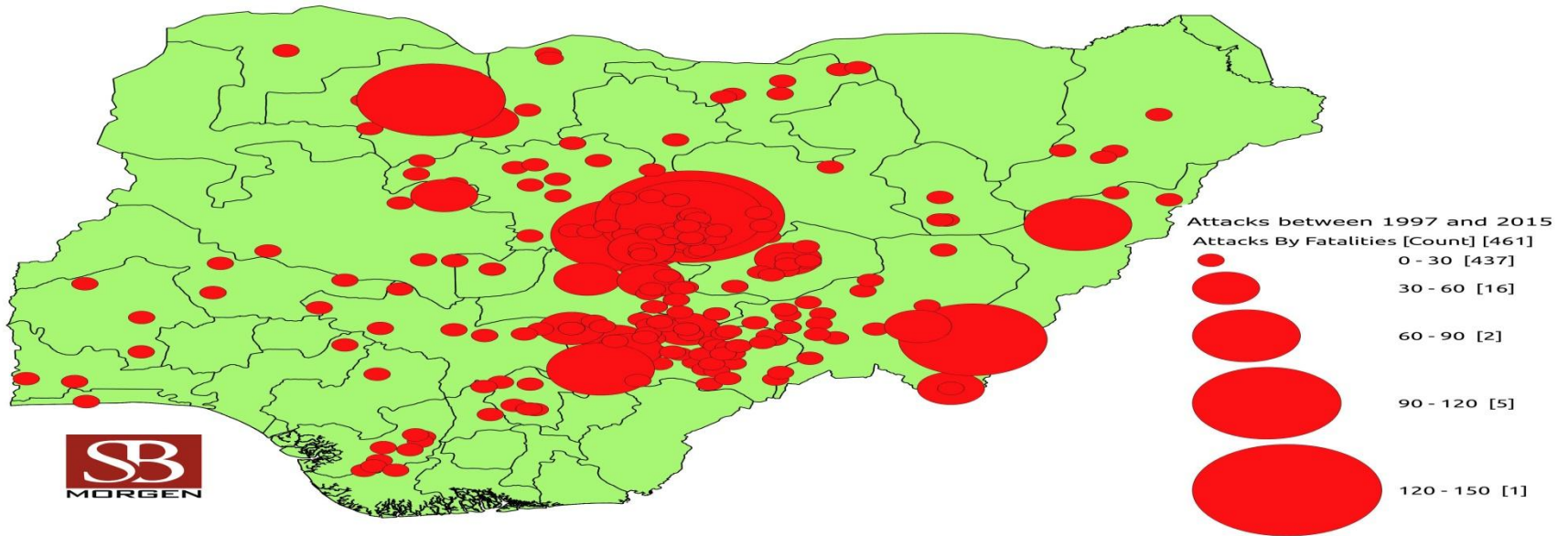
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Background Research

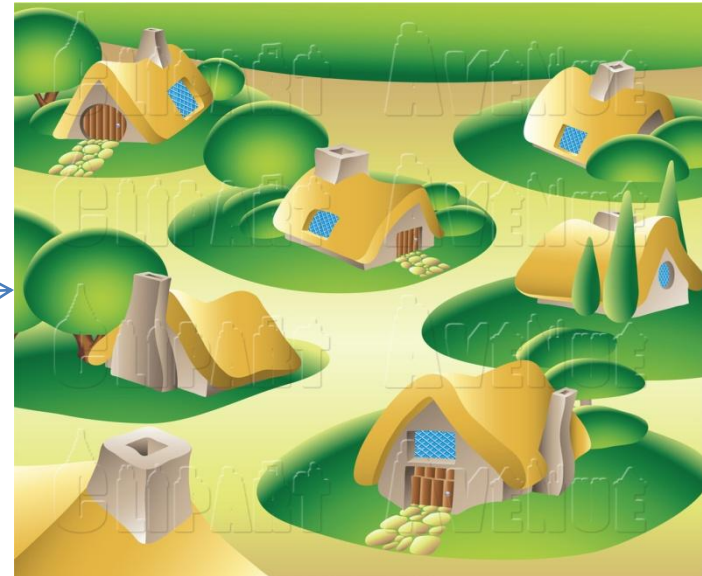
In recent times, there has been a scourge of attacks on farmers, their farmland, produce and villagers by herdsmen in and around the middle-belt region of Nigeria. As a result of the vast land and sparse population in the rural communities and villages, the herdsmen find it less difficult to attack the farmers and villagers.



<https://www.myknowledgeresources.com/2018/01/13/nigeria-verges-genocide-amid-new-wave-brazen-attacks-fulani-herdsmen/>



EXISTING SITUATION





Objectives

To use IoT to mitigate these attacks by Fulani herdsmen on some rural communities over grazing areas in Middle-belt, Nigeria.



Proposed Actions

To install Passive Infrared(PIR) motion sensors to detect body heat within the location within a particular time.

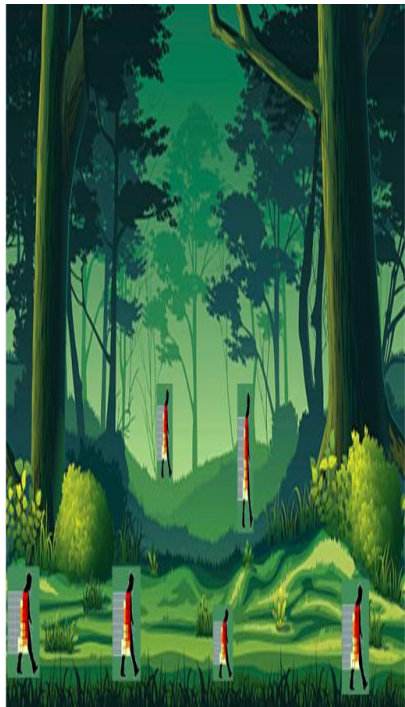
To install an alarm sensor that triggers an alarm when motion is detected.

To use an outdoor wireless device to build a point to point backhaul network for the LoRaWan Gateway.

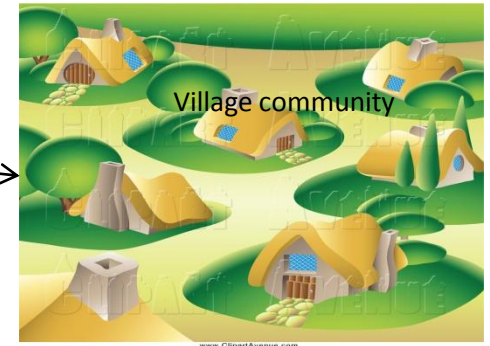


Proposed framework

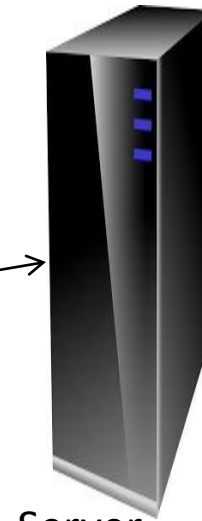
Border with PIR sensors



Sends data to trigger alarm



Lora Gateway



Server

Email/Text alerts



User

Questions/ Pointers?