Group 2 - SE 5101

Mike Thiemet, Ryan Patton, Gabrielle Davenport, Stephen Jacob

Need Statement for Earthquake Detection & Notification System

There is a need to determine when and where on Earth stress between tectonic plates is building, as it can serve as a potentially good indicator for the possibility of damaging earthquakes in surrounding areas. The system must be able to measure the shifts between tectonic plates, store the acquired data, and allow for processing to occur such that correlations can be made relating shifts in tectonic plates to seismic activity. The system should be able to use the correlated data and develop a predictive model to forecast the probability of when and where an earthquake might occur, such that precautions can be taken in a timely fashion in the affected areas. The prototype design must be completed by December 6th 2019, with a prototype delivered within 36 months of project initiation.