**CONCEPT TEMPLATE**

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| Group Name | | **Quake** | | | | | | | | |  |  |
| Chewchut, Marvin Joshua P. | | | | BSCPE - 5 | | Damandaman, Keith Joseph B. | | | | BSCPE - 5 | | |
| Cortezano, Clark Jay R. | | | | BSCPE – 5 | |  | | | |  | | |
| **NAME/TITLE OF THE IDEA** | | | | | **Digital Seismometer with Earthquake Analyzer** | | | | | | | |
| **Point Person** | | | | | **Mobile Number** | | | | **Email Address** | | | |
| **Keith Joseph B. Damandaman** | | | | | **+63 929 378 0114** | | | | [**keithjoseph97@gmail.com**](mailto:keithjoseph97@gmail.com) | | | |
| **CATEGORY** |  | | **Social Innovation** | | | |  | **CIT-Based Project** | | | | |
|  | | **Business in Development** | | | |  | **Applied Research Project** | | | | |
| **PROBLEM / COMPELLING NEED** | | | | | | | | | | | | |
| PHIVOLCS, commonly known as Philippine Institute of Volcanology and Seismology, needs a cheap 24-bit resolution digital seismometer because other countries sell their seismometer at a very high price. As request, this idea is born where it can benefit PHIVOLCS for its affordability and can be subject for mass disposal of this device for faster and accurate data gathering from different location. The data can be then use for both public and PHIVOLCS as reference for their analyzing and decision making. | | | | | | | | | | | | |
| **TARGET AUDIENCE / PARTICIPANTS / BENEFICIARIES / USERS?** | | | | | | | | | | | | |
| * PHIVOLCS * Public | | | | | | | | | | | | |
| **GOAL & OBJECTIVES** | | | | | | | | | | | | |
| * Able to convert analog sensor to digital data with 24 bit resolution. * Data can be parameters for software developers through API. * Data from the device will be sent to cloud and can be used for analysis. | | | | | | | | | | | | |
| **FEATURES / ADVANTAGES** | | | | | | | | | | | | |
| * Ease of Access to data * Able to determine the magnitude and direction of the epicenter. * Affordable * Online auto logging through database | | | | | | | | | | | | |
| **BREAKTHROUGH IDEA** | | | | | | | | | | | | |
| All of the Building (2 storey and up) must put this device to be able to gather data from different points with this, pin pointing the epicenter will be much accurate. Since all device will send their data to the cloud, we could create an AI where it will analyze this data and create a possibility of generating an earthquake to different locations. Through this, we might be able to create a safety measures prior to the earthquake. | | | | | | | | | | | | |