**LPWAN Project – Planning with Henry Leung on deliverable of the research**

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| **Phase** | **Phase Description** | **Planned Start Date** | **Planned End Date** | **Deliverable (describe the deliverable)** | **Any assistance required from the City to meet deliverables.** |
| 1 | Sensor unit design specification | 28/08/2017 | 10/11/2017 | Sensor unit functional specification. Develop working prototypes for both hardware and algorithm design. Final detailed hardware and algorithm design specification for the sensor units. | Alignment with the City to make sure their objectives will be met. Access to the LoRaWAN network. General feedback from the City on the design specification. |
| 2 | Data management system | 25/09/2017 | 24/11/2017 | Design the data storage system and real-time visualization tool. | Assistance required to integrate the data management system with existing City IT infrastructure. |
| 3 | Assembly and deployment | 20/11/2017 | 22/12/2017 | Receive all sensor unit hardware, assemble, and deploy units | Feedback from the City on the network location. Assistance required to ensure proper interfacing between the sensor units, the gateways, and the data management system. |
| 4 | Data analysis and reporting | 02/01/2018 | 31/01/2018 | Analyze incoming real-time data. Make correlations between acoustic data and other data. Prepare report on project outcomes and future work. | Access to City databases. Feedback from the City on correlations to study. General feedback from the City. |