**Sustainability Trip Planner/Navigation (Project Planning)**

**Team Name:** P3 (Planeteers Pollution Patrol)

**Team Members**

* Mathew Nuval
* Christian Shadd
* Gaven Gantz
* Hoan Huynh

**Project Goal**

To help reduce the amount of bad air quality in densely populated cities like Los Angeles

**Problem/Opportunity Definition**

* **Real world problems -** Many people drive in cities like Los Angeles every day, and smog tends to build up with all the people who are on the streets in their vehicles which causes poor air quality.
* **Technical problems**
  + How are we going to implement cloud computing to satisfy the theme of a goal?
  + What data are we collecting to be relevant to our goal?
  + Is there any out variations different path we can take with this project? (In case our project doesn’t work)

**Project Solution**

* **Real world solution -** Develop an application that outputs a sustainable trip planner for drivers to help reduce poor air quality in a densely populated places given the inputs of the user’s destination.
* **Technical solution**
  + TODO: Solution for cloud computing
  + TODO: Solution for data collection.
  + TODO: Solution for plan B.

**Project Tools:**

* **Git/Github** – for version controlling
* **Zenhub or Jira** – for project management purposes
* **AWS** – for cloud computing purposes
  + **EC2** – Server to pass information between current users on the app.
  + **S3** – for data handling purposes
  + **Dynamo db** – To collect user inputs on current air quality conditions.
* **Android Studio** - to be used to develop and build the application.
* **Here API** – for Navigation purposes.
* **AirVisual API** – for air quality