# PROJECT PLAN DOCUMENT

| Project number | 4 |
|---|---|
| Project Title | Quantifying carbon footprinting for logistic hubs |
| Document | Project Plan |
| Creation date | 1st February |
| Created By | Kushagra Agarwal, Dama Sravani, Sriharshitha B, Shreeya Pahune |
| Client | Name of the Client : Gowtham Gollapalli<br><br>Name of the organisation: Kaiinos |

## Brief problem statement

Quantifying carbon footprint using geospatial data

Global climate change is adversely affected by the increasing amounts of greenhouse gases being released. Carbon footprint is a measure of the amount of greenhouse gases produced which can be in different sectors such as Agriculture, Industrial, Transportation etc. In this project our goal is to make a person handling a logistics hub to quantitatively understand the carbon footprint due to the truck movement in the hub. Using this information then suggest an alternative routes using a pgRouting server to minimize this emission.

## Team Members

Kushagra Agarwal
Shreeya Pahune
Dama Sravani
Sriharshitha Bondugula

## Team Communication

Weekly scheduled meetings with the client and all the team members on Tuesday to discuss the weekly tasks along with review of the previous week tasks.

Two weekly meetings among the team members to discuss and distribute the tasks

Documents sharing through Google docs and common gitlab repository created by the Client

## Development Environment

- Javascript and openlayers ( for front end)
- Django (for backend development)

- PostgreSQL(maintaining databases )
- Pgrouting (for routing and other network analysis functionality )

## Milestone Schedule

| Milestone | Due Date | Release | Deliverable? |
|---|---|---|---|
| Reviewing carbon footprint literature | 1st Feb | R1 | Yes |
| Building Carbon Footprint Calculator | 28th Feb | R1 | Yes |
| Setting up pgrouting server | 30th March | R2 | Yes |
| GUI for the webapp | 15th April | R2 | Yes |
| Use Satellite Data to find hotspot hubs with high carbon emissions( extension of the project) | 15th April | R2 | No |