Weekly Scrum Report - Week 0

What is the project focus/overall goal?
- Conduct an analysis of air quality for Boston residents and examine the relationship between public transportation and car infrastructure and use
- End deliverable is a data driven report

Why is this project important?
- Public health
    - By assessing the impact of transportation on air quality, the project can contribute to reducing health issues like asthma
- Environmental impact
    - This project addresses the issue of air quality and its connection to transportation choice and aims to explore ways to reduce emissions by understanding the role of public transportation and car infrastructure
- Equity
    - This project can bring attention to disparities in air quality and transportation access in different areas of Boston, which could help policymakers make better decisions to ensure equitable transportation options for all residents
- Policy
    - The project can help inform urban policy - implementation of new public transport routes and technologies, investment in cleaner and sustainable transport.
- What type of data will you collect or be analyzing?
    - Demographics (census data), health data, air quality sensor data, transit data, proximity to roads (pollution proximity index, PPI)
    - Area median income data and social vulnerability index

What are potential limitations of the project?
- Data cannot correctly estimate the environment many years into the future.
- Quality and availability of data
- Other factors affecting air quality like weather, industrial emissions so it might be hard to only isolate the impact of transportation infrastructure and usage
- Scope and depth of the analysis might be limited since this is only a semester long project
- Potential biases in data collection and analysis

What are your next steps? Divide tasks amongst the team
- Exploratory data analysis: Look at the given base project data.
    - Split by type:
        - Proximity to roads (Pollution Proximity Index, PPI)- **Ziliang**
        - Air quality sensor data - **Hemanshu**
        - Transit Data - **Xinzhu**
        - Census data for demographics - **Lika**
        - Social vulnerability index (note: this will take more data work because this is a geographic boundary area) - **Hemanshu**
        - Area median income data (forthcoming) - **Lika**
- Look at how the above data fits in with the base project

Team Scrum:

What have I worked on?
- We worked on Deliverable 0 and assign Team Leads

What will I be working on next?
- We will begin working on our next steps dictated by the tasks we created for deliverable 0.

Have I run into any issues? Do I need help?
- No

Team Lead: Have I talked to the client recently? When are we meeting with them next?
- No, I haven't. I will meet with them once I am instructed to.