



# **ENSE 400 Project Start-up: Project Sign Off - Climate Awareness**

Anupras Burokas, Mohamed Bashir, Timothy Pasion



# Project Background

This project focuses on the United Nations Sustainable Development goal 13: Climate Action.

Target 13.3 improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning.



# The Golden Circle

Why: This project is intended to spread awareness through educating the community so that they can improve their lifestyles and come together to change the world.

How: Take in user data in a form of questionnaires to determine their carbon footprint. Assesses their score and allow the user to gain access to multitude of resources and tools to help them lower their score.

What: Develop a knowledge-based content application that allows users to monitor their carbon footprint and gain access to a supportive community, valuable resources, and tools.



# Envisioned Application Features

- Content sharing amongst users
  - Forum or feedlike structure and attributes. Like, dislike, comment
  - Posting useful articles/ youtube videos
  - Sharing achievements/rewards with other users and challenge them to achieve same rewards
- Messaging System
- Determine users Carbon Footprint based a questionnaire and use that data to gather recommendations that provide information on alternatives or other ways to lower greenhouse gas emissions.
  - Comparing with others who have a similar lifestyle as the user after the questionnaire or at the end of each month or year reports.
- Monitor users carbon footprint - Allow users to track their activities monthly or yearly, and give a report at the end of each month or year.
- Carpooling
  - Maybe utilize uber API or building a verification layer for in-app carpool requests

# Key milestone

- Community research & understanding
  - Technology Steward
  - Community Characteristics Orientation
  - Technology configuration inventory
- Project requirement this includes
  - Business requirement
  - Functional requirement
  - Stakeholder requirement
  - Technical requirement
- System design and architecture
  - User story map and user story scenarios
  - Data model diagram e.g Uml diagram, system context, sequence diagram
  - Database modeling
  - User: Developer/administrator (server requirements, installation instructions, etc.),
  -
- Software design
  - Lo-fi prototypes
  - Hi-fi prototype
  - Testing/Results of Lo-fi and Hi-fi prototypes
- Development
  - Build MVP 1
  - Run tests for MVP 1