# Restaurant Occupancy Prediction (Inspired From Minority game)

Group 3

# Overview

Problem Statement

Product Description

Sub-team Description/product Implementation

Project Roadmap

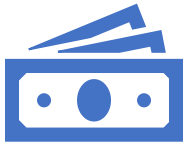
Demo video

# Problem Statement

Uncertainty of turnout because of the pendemic restrictions

No prior knowledge of what to expect of how good the buisness will be

Restaurants are spending more in variable cost by being open



Restaurant managements need external support to cut unnecessary cost

# Product Description

- An application that a restaurant owner/management can use to visualize expected turn-out
- Using highly sophisticated statistical model to simulate what the turn-out might look like
- Using important information about the local areas to predict the turn-out relative to the state covid-19 guidelines
- Extending the minority game formula and adding group decisions to accurately simulate human behavior in given conditions

# Sub-team Description

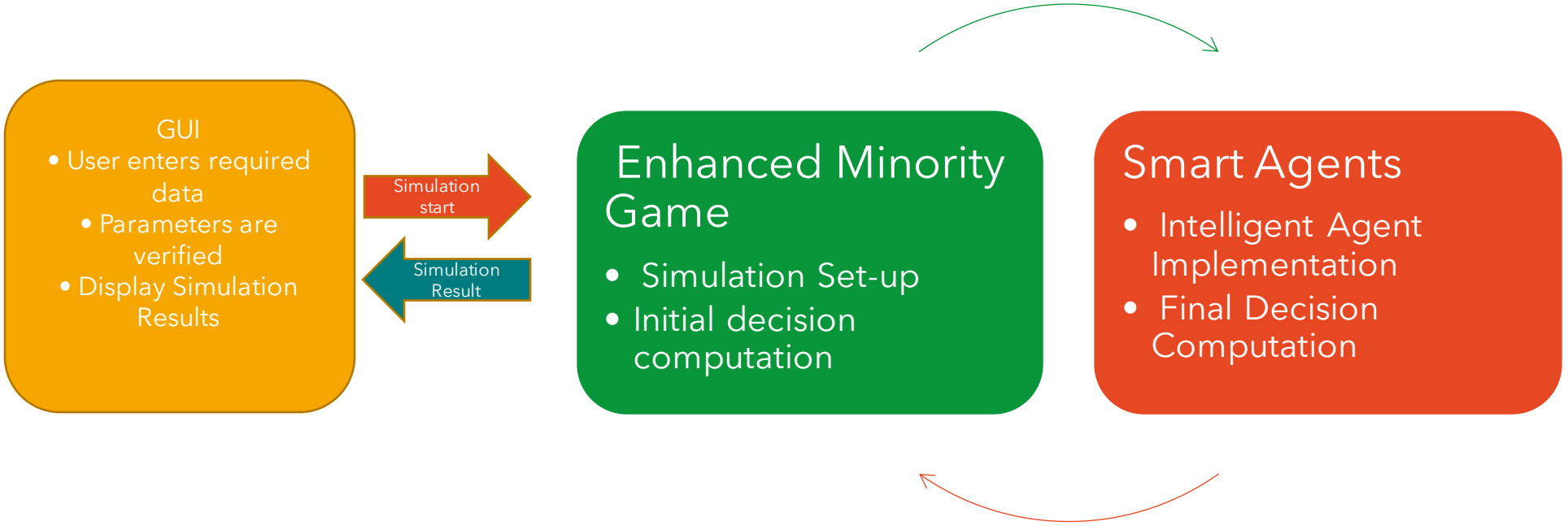
## Sub-team 1:

Intelligent Agents that use group decisions to simulate realistic turnout

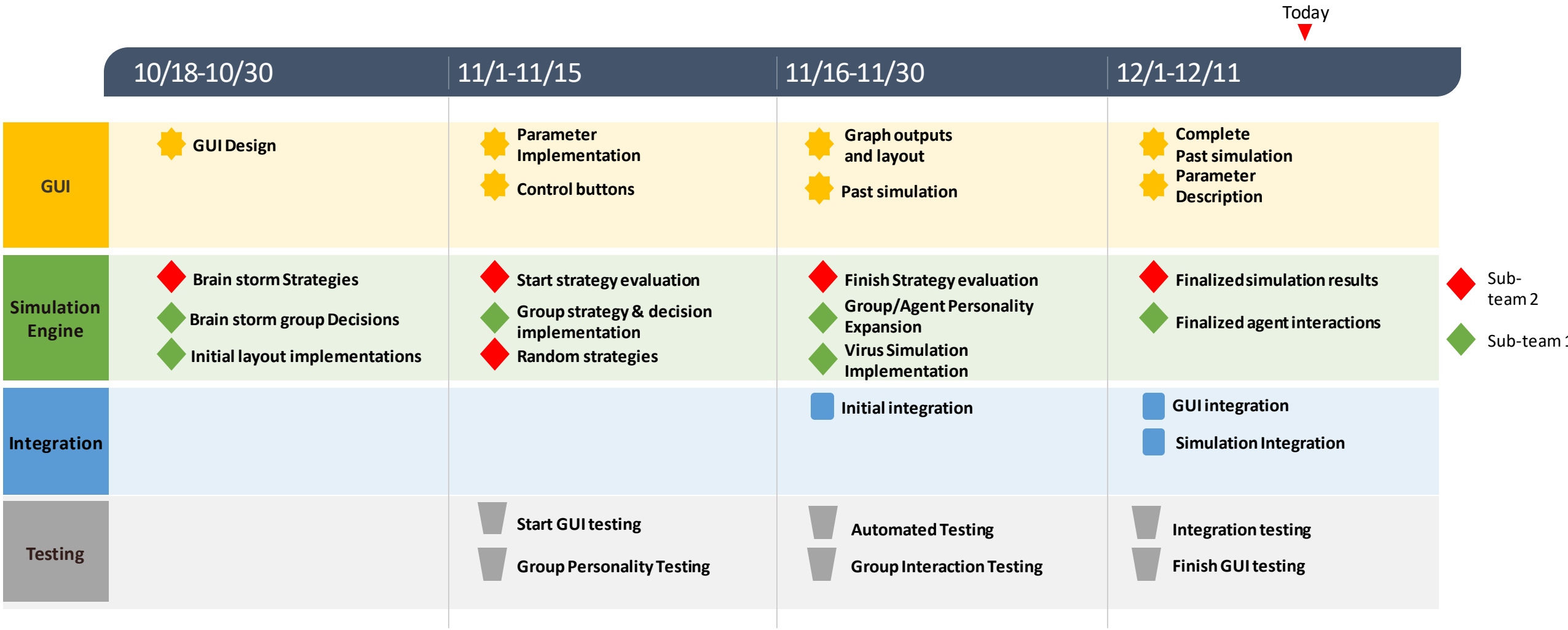
## Sub-team 2:

Focused on external factors to perfect the influence of the change in various parameters on the overall turnout

# Final Product Implementation



# Project Roadmap template



# Video Order

- Database explanation : Eric Robles
- Sub-team 2's video: Tanvir Singh
- Final produce + Sub-team 1 Video: Christopher Rosenberger and Austin Bae