**To Alleviate Traffic Congestion**

Siyuan Chen, Drew Kirk, Sam Monaghan, William Wu

**Definitions**

* Traffic congestion—the accumulation of motor vehicles at intersections due to irrational behaviors of the drivers.
* Irrational behavior—decisions made while operating motor vehicles that do not necessarily benefit all traffic near the intersection as a system.

**Assumptions**

* The control data exemplify areas around the world that face heavy traffic congestions.
* Obstacles and vehicle differences have negligible impacts on the relevance of the control group data and the validity of the outcomes of the simulation.
* Technology and regulations would be improved and adapted to fully accommodate the demands of the system proposed by the simulation.
* Intermittent collisions apparent in the simulation do not significantly impact the overall outcomes of the model