

With the looming threat of global warming and climate change, more people are leaning towards green transportation. However, we need an alternative means of transportation that is widely available to everyone. Even though train travel can be more efficient than car travel, it lacks popularity. Plus, the U.S.A. currently doesn't have the infrastructure to support large scale train travel. Also, the advantages to train travel can be negated by the frequency of stops, the travel to and from stations, and the number of people actually using the train. However, there is an alternative. Currently, there is research being done on a unique means of green transportation: fuel efficient self-driving car trains. These self-driving cars would operate by traveling in a train-like fashion that is 20% more fuel efficient than driving alone. This caravan of cars would incorporate some of the aerodynamic advantages of a traditional train, plus the comfort and convenience of a personal car. This would offer efficiency and convenience. However, there is limited knowledge about the actual efficiency, safety, and convenience of the self-driving car train. We hope to create several computer models using NetLogo to show the efficiency, safety, and convenience of the self-driving car train. This data could help educate more people about the efficiency of a self-driving car train. Plus, it offers a new, more efficient means of travel that will be available for average Americans without requiring new infrastructure.