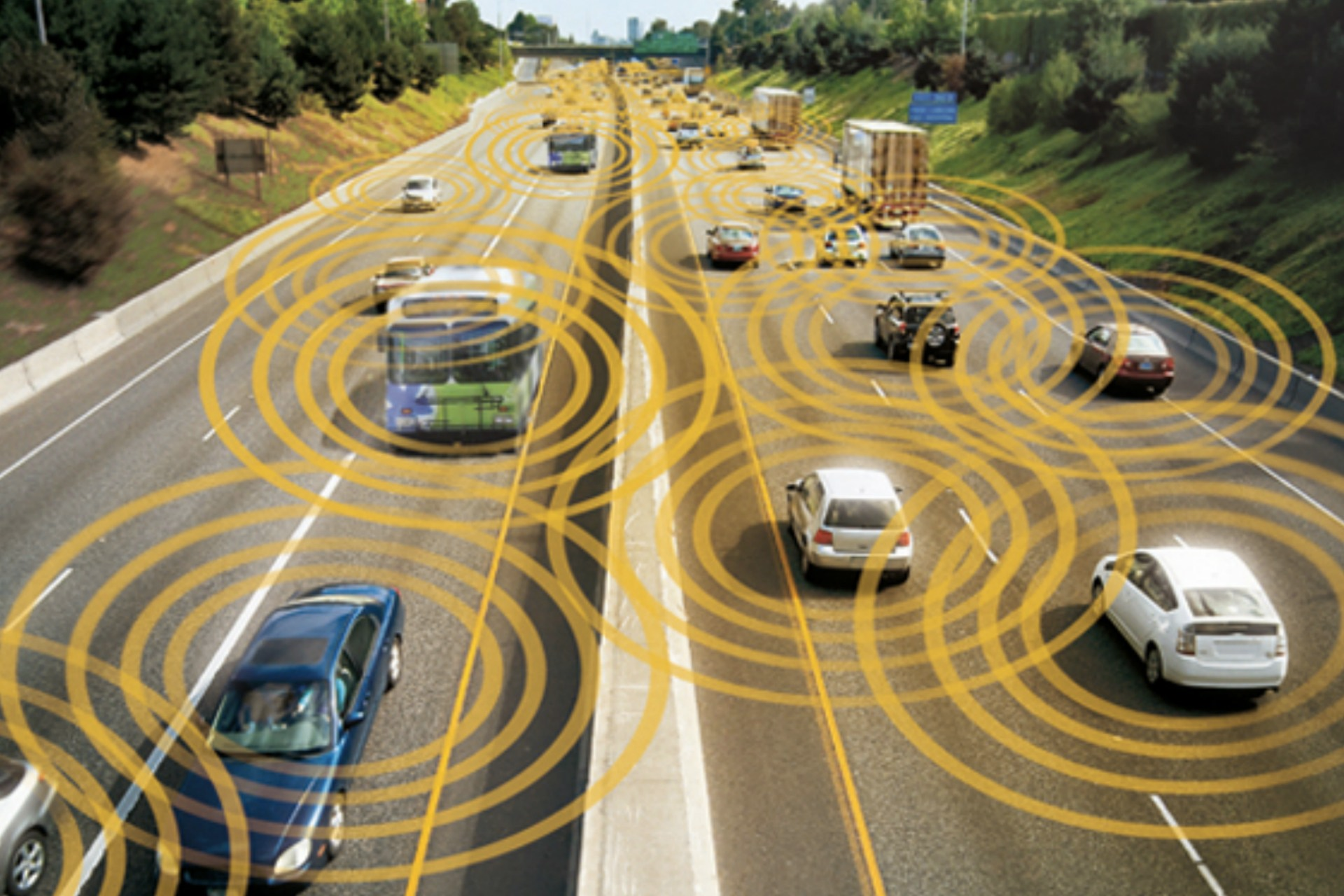
Distributed Transport Network

Prepared for: CPE 400

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Distributed Transport Network

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## Overview

As autonomous vehicles become more prominent, it becomes important for vehicles to communicate between each other within a city via a peer-to-peer mobile protocol. Due to the limited transmission range and variable mobility of these vehicles, protocols need to be developed to efficiently transfer data between any number of vehicles to reach the intended destination. In this project, we will create a simulation environment to simulate data transfers between multiple vehicle types within a grid style city. Using the city walk model, we will simulate a grid style city with multiple vehicle types each acting as a node point to transmit data within our network.

## Goals

1. Have a robust simulation which vehicles create a peer-to-peer network for transmitting data

Distributed Transport network

1. Create an environment with different vehicle types with a variety of navigation and transmission options
2. Transport packets in a mobile routing network

## Roles

Brandon

* Develop simulator kernel

Daniel

* Implement routing protocol

Tyler

* Design nodal vehicle behavior

## Milestones

1. Develop a simulated city environment populated with vehicles using a city walk model
2. Transport from one command control center to another using the vehicles as transmission nodes
3. Transmit packets from a moving vehicle to a command control center
4. Decrease round-trip-time from a moving vehicle to a command control center