

I-STREET: An Overview

Dr. Lily Elefteriadou
Director, UFTI
Professor of Civil Engineering

November 23, 2020

The I-STREET Testbed

- UF, FDOT, CoG partnership
- Quarterly stakeholder meetings
- Industry involvement

FDOT-Funded Project (completed Sept. 2017):

Develop a plan for an advanced transportation technologies testbed at UF/CoG









Why Gainesville, FL?







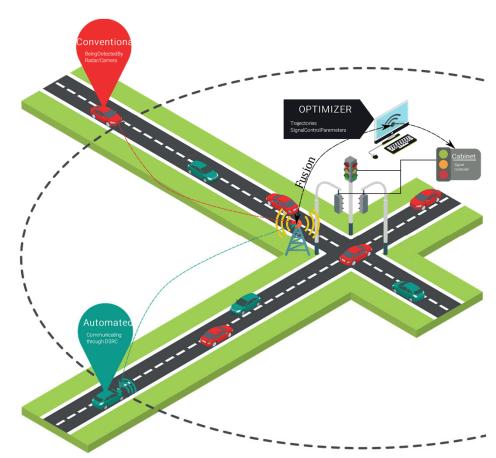
Autonomous Shuttle



NSF - CAV Intersection Operations

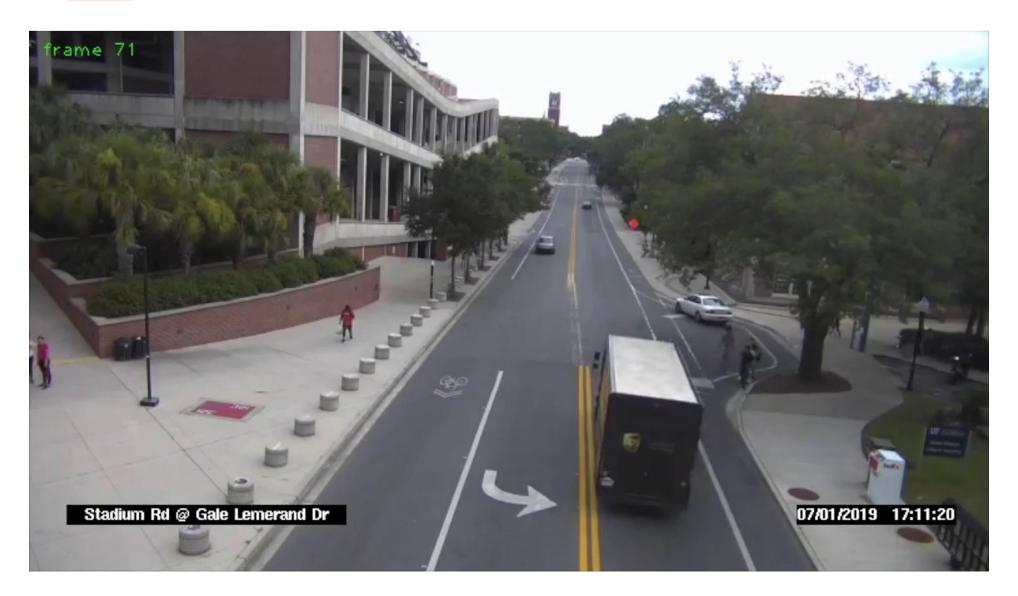
Given: the arrival information of automated vehicles and conventional vehicles

Goal: to optimize the average delay by advising automated and connected vehicles and controlling signal phase and timing



Herbert Wertheim College of Engineering

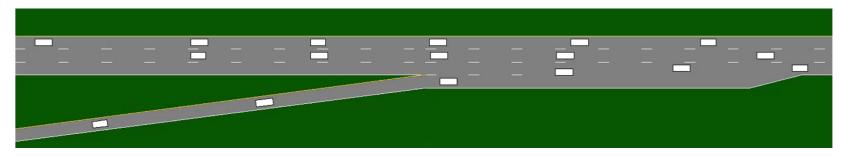
Transportation Institute



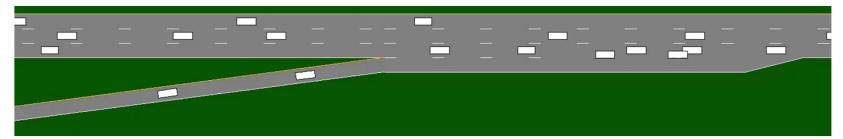


Simulation Application to Freeways

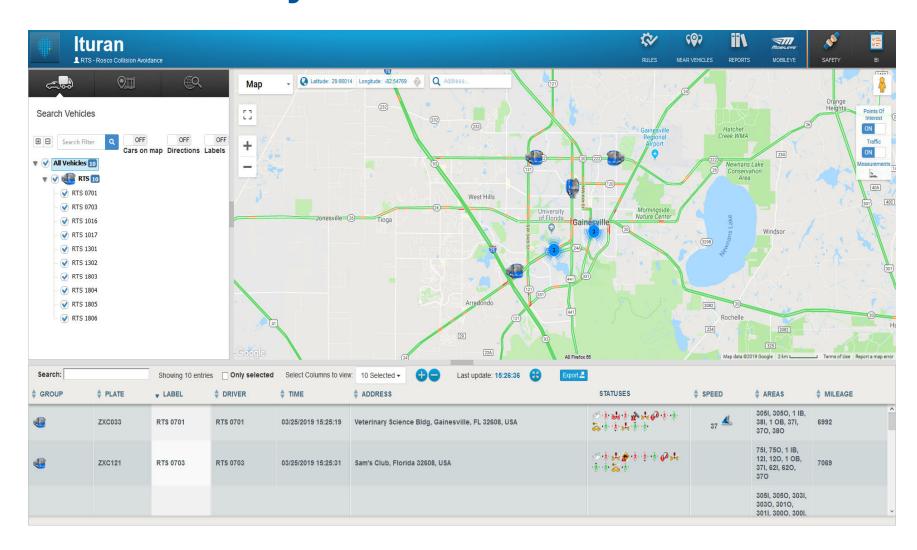
Autonomous Vehicles



Conventional Vehicles

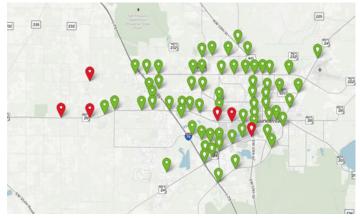


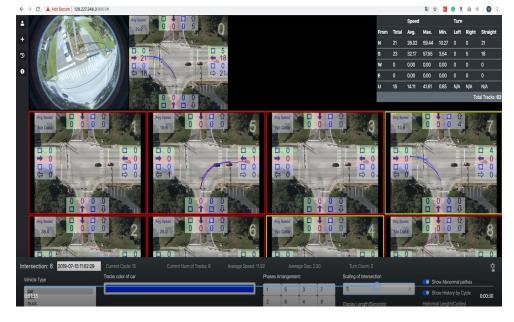
Data Analytics: Web Interface



Detecting near-misses







Next steps:

- Industry collaborations
- Hackathon Spring 2021
- Additional OBUs



