

Ped/Safe Greenway Deployment – Fact Sheet

System manager Approach:

This project will be handled with a System Management Approach for Intelligent Transportation Systems Project. The final projects to be submitted includes but is not limited to the complete design for each corridor and all signalized intersections within them, the selection of devices, integration, testing and verification.

PedSafe

Is to implement a pedestrian and bicycle collision avoidance system that utilizes connected vehicle (CV) technologies to reduce the occurrence of pedestrian and bicycle crashes.

As part of this project we will be deploying:

- CV technology along locations on SR 434 from Challenger Pkwy to Southern Limits of SR 434 Connected Vehicle Pilot; SR 50 from Hiawassee Rd to Silverton St/Pete Parrish Blvd and University of Central Florida (Gemini Blvd, Greek Park Dr); Mc Culloch Rd from Lockwood Blvd to Old Lockwood Rd.
 - Emergency Vehicle Pre-emption - Provide a green light to emergency vehicles as the approach an intersection during emergency.
 - CV Transit Signal Priority - provide conditional signal timing to buses as they approach an intersections.
 - Signal Phase and Timing (SPaT) Data

CCTV

- Parking Availability - Provide information about where parking is available in real-time for UCF Students Parking(Flat lots)
- Transit Verification – Determine presence of students waiting for bus at kiosk locations

Transit Kiosk – to provide information to transit system at bus stops for users without smart phone, users will be capable to let the bus system know at what bus stop they are located.

OBUs

- UCF Shuttles
- Fire engines at Mc Culloch Rd and Lockwood Blvd

Greenway

The Greenway- is to increase throughput capacity and reduce congestion by optimizing traffic signal operations with the implementation of technologies and improve the multimodal movement of people and goods, optimizing existing traffic operations, in terms of flow rate and safety, for all multimodal traffic during peak time and special events.

The technology that will be deployed (250 signals Intersections District Wide):

- Advanced Sensor Technology (CCTV, MVDS, Gridsmart Device Server, etc.) to produce real time turning movement counts, saturation flow rates, right on red, and permissive yellows. Pedestrian and Bicycle Movements would be desirable.
- Within a single “control box” it should be capable to support DSRC, Automated Traffic Signal Performance Measures (ATSPM) and Intersection Movement Count (IMC) devices.