

SUNTRAX™

Accelerating the Future of Transportation



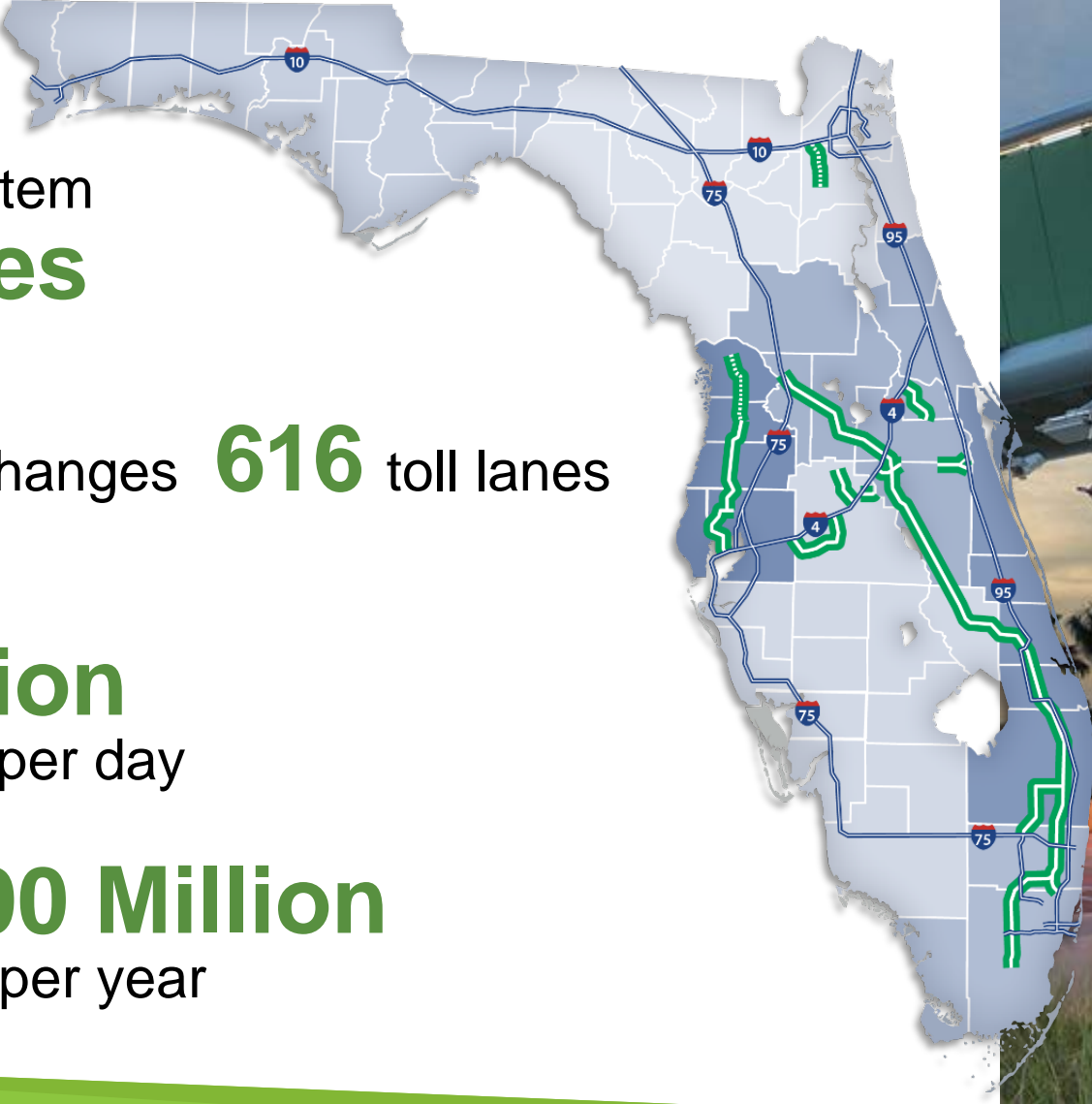
Florida Department of
TRANSPORTATION



Why FTE Tests Tolling Technology



Florida's Turnpike System
483 miles



138 interchanges **616** toll lanes



2.3 million transactions per day



Over 800 Million transactions per year

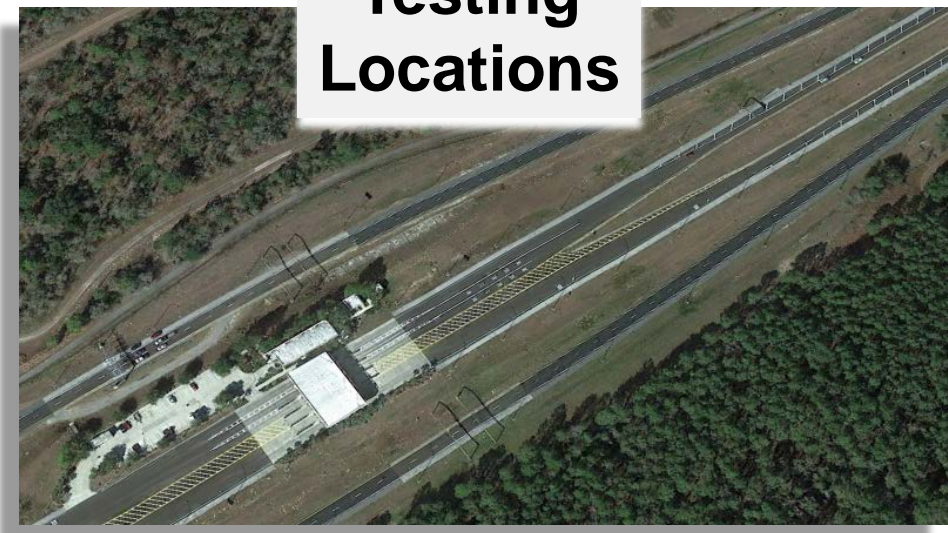


FTE Tolls Testing

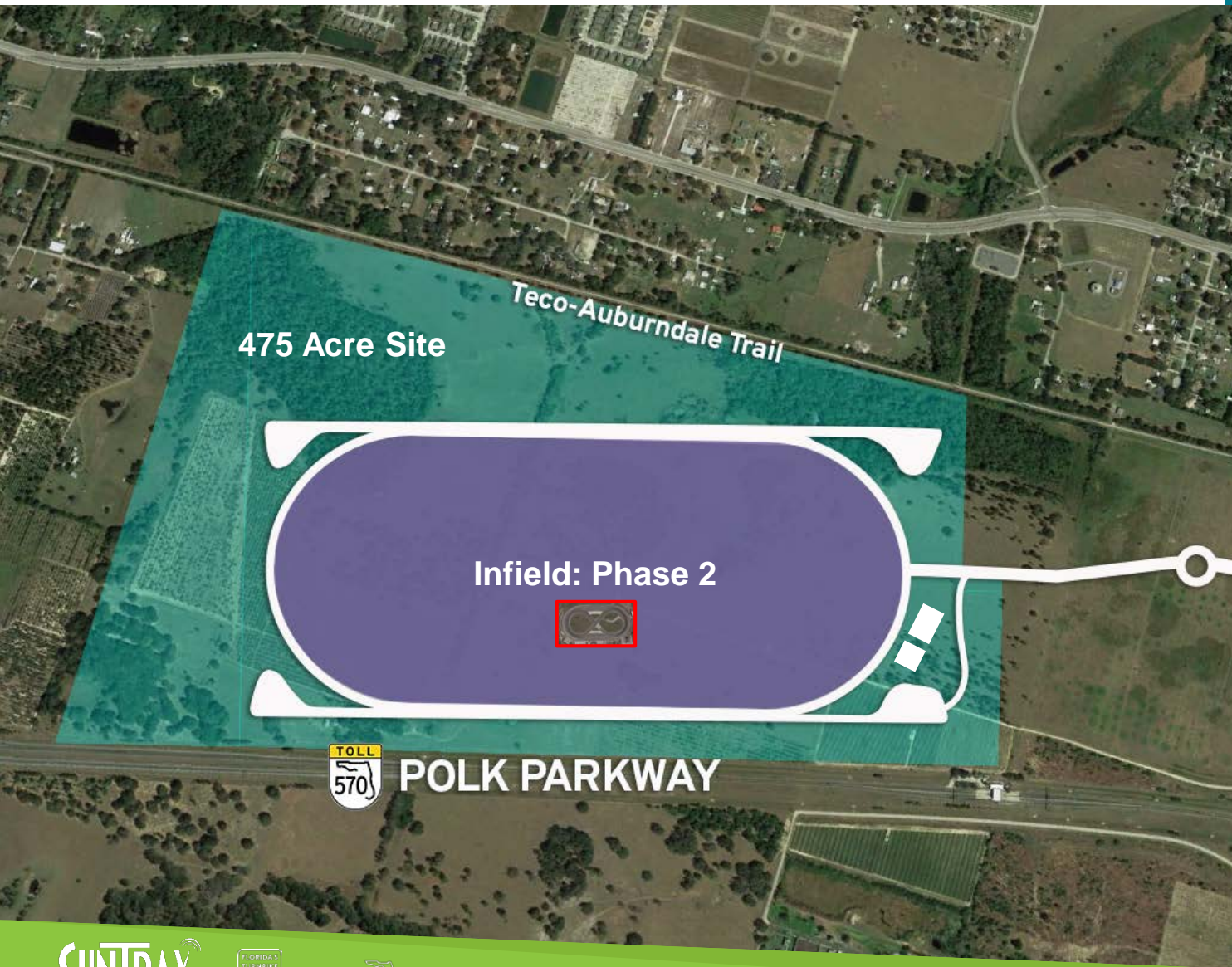
- Toll equipment (hardware & software)
- Managed lanes and corridors
- Innovative payment systems



Previous Testing Locations



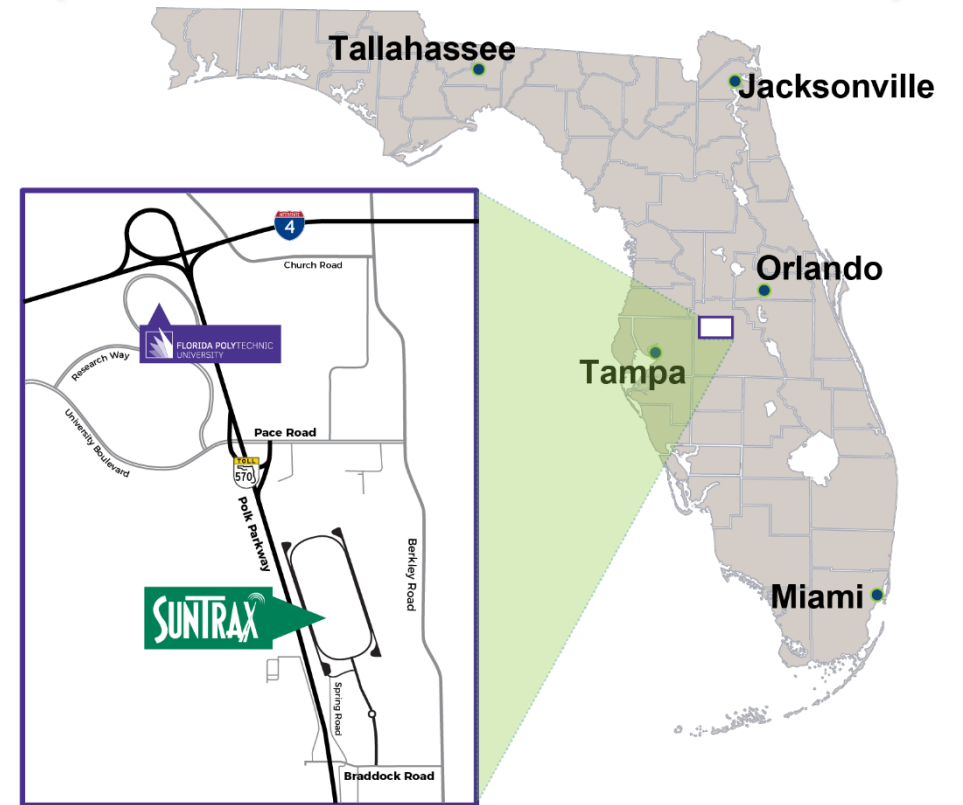
SunTrax Phase 1 | Tolls Testing Facilities



Project Location

← 45 miles to Tampa

→ 46 miles to Orlando



SunTrax Phase 1 | Construction Progress

June 2017



November 2018



The Future of Transportation

The Future is . . .



Automated



Connected



Electric



Shared



Benefits of CAV . . .



Improve
Safety



Enhance
Mobility



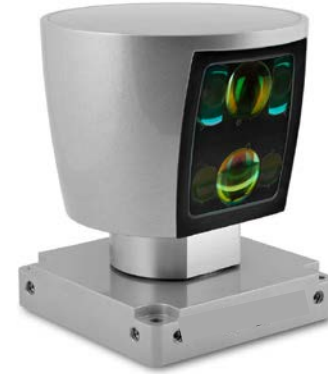
Reduce
Congestion



Minimize
Environmental
Impacts

Research & Industry Outreach for Phase 2

- Automakers (OEM's)
- Tier-One Suppliers
- CAV/Sensor/Camera Companies
- Tech Firms
- Freight & Logistics Companies
- Universities
- Residential/Commercial Developers
- Proving Grounds Operators
- Proving Grounds Designers



FDOT Connected Vehicle Projects

- 16 CV Projects in deployment and planned statewide, to date
- Signal phase and timing (SPaT)
- Dedicated short-range communication (DSRC)
- Pedestrian safety systems

Planning

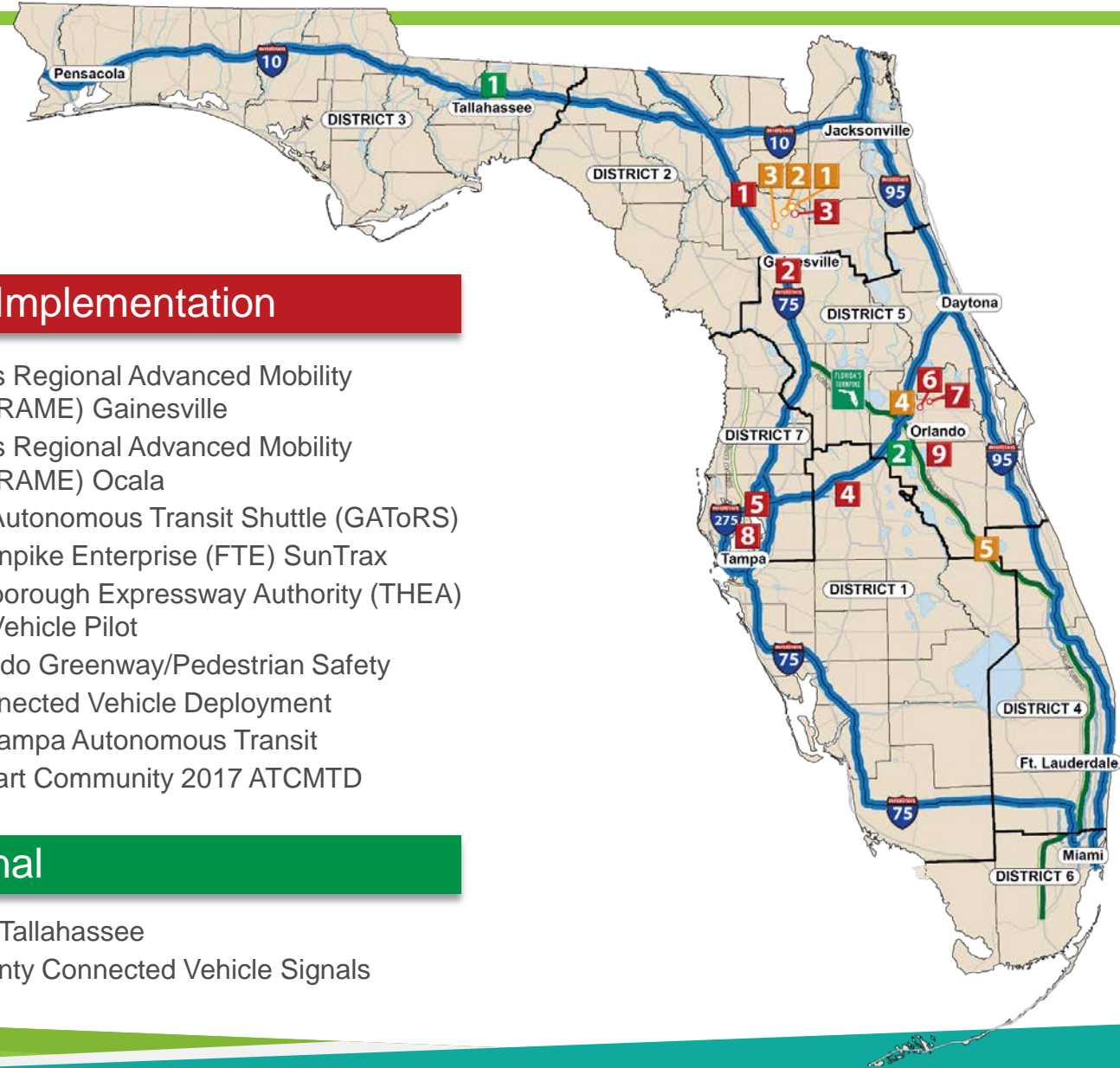
1. University of Florida (UF) Accelerated Innovation Deployment (AID) Demonstration
2. Implementing Solutions from Transportation Research and Evaluation of Emerging Technologies (I-Street)
3. Gainesville Signal Phase and Timing (SPaT) Trapezium
4. Central Florida Autonomous Vehicle (AV) Proving Ground
5. Driver Assistive Truck Platooning (DATP) Pilot

Design / Implementation

1. I-75 Florida's Regional Advanced Mobility Elements (FRAME) Gainesville
2. I-75 Florida's Regional Advanced Mobility Elements (FRAME) Ocala
3. Gainesville Autonomous Transit Shuttle (GAToRS)
4. Florida's Turnpike Enterprise (FTE) SunTrax
5. Tampa Hillsborough Expressway Authority (THEA) Connected Vehicle Pilot
6. City of Orlando Greenway/Pedestrian Safety
7. SR 434 Connected Vehicle Deployment
8. Downtown Tampa Autonomous Transit
9. Orlando Smart Community 2017 ATCMTD

Operational

1. US 90 SPaT Tallahassee
2. Osceola County Connected Vehicle Signals



SunTrax Phase 2 | Infield (Current)

Design Principles



Varied Environments



Diverse Scenarios



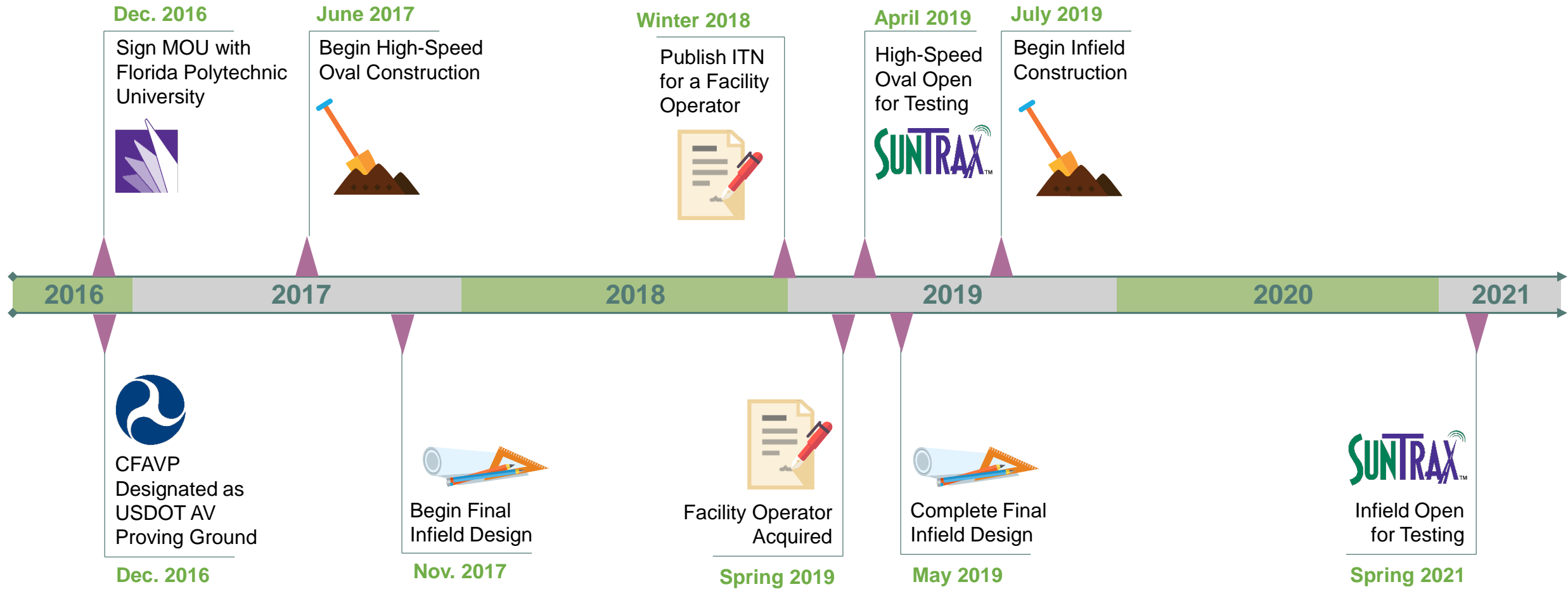
Highly Reconfigurable

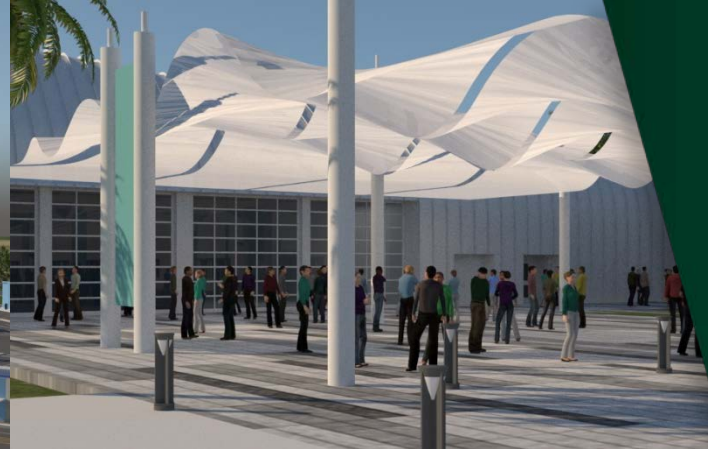


Test Features

- 1 Main Entry Campus
- 2 Workshops & Warehouses
- 3 Roadway Geometry Track
- 4 Loop Tracks
- 5 High-Speed Oval
- 6 Signal Loss "Tunnel"
- 7 Urban / Suburban
- 8 Pick-Up/Drop-Off
- 9 Sensor Test Chamber
- 10 Braking & Handling
- 11 Technology Pad

SunTrax Project Timeline





Questions?

SunTraxFL.com



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