



# America's New Center for Transportation Innovation



## Our Mission.

To accelerate the future of transportation



## Our Vision.

A continuously-evolving center for the development of innovative technologies that improve transportation safety, efficiency, and accessibility

## About.

SunTrax is a large-scale, state-of-the-art facility being developed by the Florida Department of Transportation (FDOT), Florida's Turnpike Enterprise (FTE), dedicated to the research, development and testing of emerging transportation technologies in safe and controlled environments.



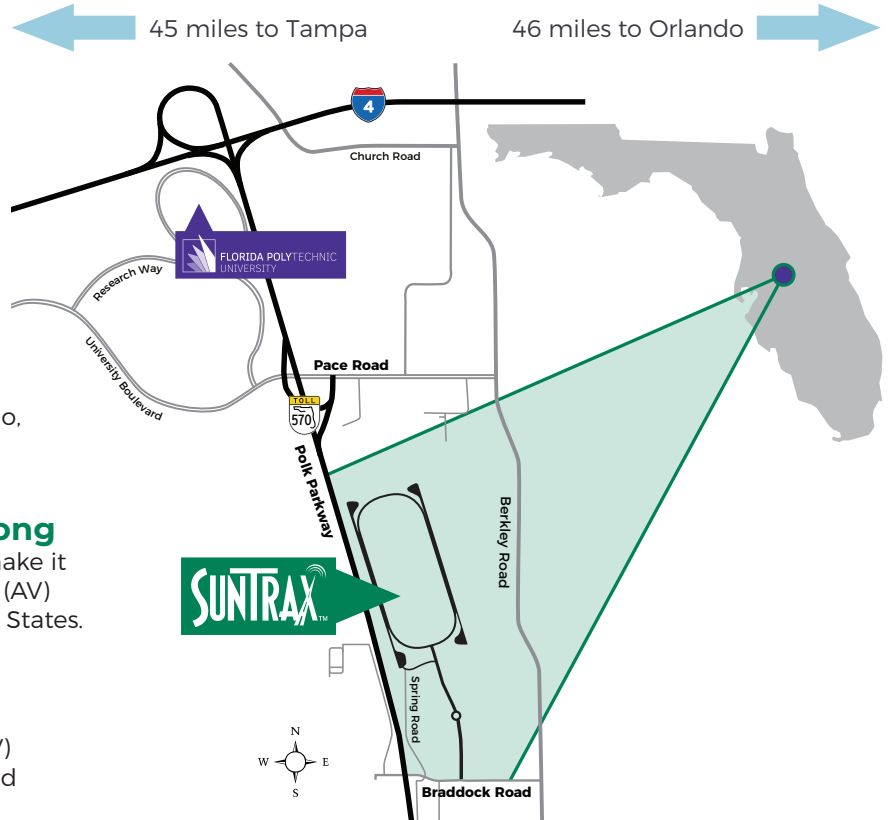
SunTrax is centrally located in Florida, **situated on 475-acres** off I-4 in Polk County, between Tampa and Orlando,



The site is composed of a **2.25-mile-long test track**. The multi-lane track will make it the only high-speed autonomous vehicle (AV) testing facility in the southeastern United States.



The **200-acre infield** will focus on connected and autonomous vehicle (CAV) testing and will feature multiple simulated transportation environments.



## Project Timeline.

SunTrax is being developed in two phases. The construction of **Phase One** will allow FTE to continue testing all types of current and future toll technology. Construction began in July 2017, and is now complete.

**Phase Two** includes the infield of the track, which will focus on CAV testing features that have been designed based on extensive input from potential users and industry partners. Construction of the infield is expected to begin in fall 2019, and conclude in late 2021.



**2017**

**June**

Begin high-speed oval construction

**November**

Begin final infield design



**2019**

**April**

High-speed oval open for testing

**July**

Complete final infield design

**October**

Begin infield construction



**2021**

**Winter**

Infield open for testing

To learn more, visit [SunTraxFL.com](http://SunTraxFL.com)

You can email us at [info@SunTraxFL.com](mailto:info@SunTraxFL.com)



# Explore SunTrax.



## 1 Main Entry Campus

- 20,000-sq. ft. Welcome Center
- Offices, classrooms, plus indoor and outdoor event spaces
- Smart building technologies

## 2 Workshops & Warehouses

- 27,000-sq. ft. warehouse building
- 56,000-sq. ft. air-conditioned workshop buildings with 2,800-sq. ft. bays
- Controlled access, resilient high-speed data connection

## 3 Roadway Geometry Track

- Undulating topography built into manufactured hill-scape
- Complex horizontal and vertical curves with irregular grade changes

## 4 Loop Tracks

- Incorporates entrance and exit ramps into a multi-lane continuous loop track
- Can be used for maintenance of traffic during road construction and collision avoidance

## 5 High-Speed Oval

- 2.25-mile oval track with 70 mph design speed
- 1-mile independently operable 5-lane straightaways
- 4 free-flow toll gantries

## 6 Urban / Suburban

- Reconfigurable facades simulating city-like buildings using shipping containers
- Simulates complex urban intersection configurations, signalization
- Varied pavement materials and markings

## 7 Pick-Up / Drop-Off

- Replicates multi-modal passenger transfers: airports, hotels, and transit centers
- Adjustable lane striping, signing, and curb-side pick-up and drop-off scenarios

## 8 Sensor Test Chamber (future construction phase)

- Enclosed structure for testing in precisely controlled and repeatable scenarios
- Test sensors under manufactured rain, lightning, smoke, fog, and dust conditions

## 9 Braking & Handling

- Noise, vibration and harshness surfaces for durability scenarios
- Low friction surfaces for braking, lane keeping scenarios

## 10 Technology Pad

- Accommodates vehicle-in-the-loop testing
- 28-acre paved open space
- Replicate real-world geometric configurations