**Intelligent Transportation Systems:**

**Reference:** [**https://www.tripsflorida.org/docs/APTS-21-%20software%20services%20RFP\_%204-16-21.pdf**](https://www.tripsflorida.org/docs/APTS-21-%20software%20services%20RFP_%204-16-21.pdf)

This section defines the minimum functional and performance requirements for deployment of ITS/Technology Solutions for Florida’s transit agencies.

* Vehicles include fixed route, trolleys, demand response vehicles and other transit vehicles.

**Base Items and Options:**

* Intended base contract items are bold and underlined below and must be included within each tier proposed. All other items shall be offered as “options” for purchase throughout the contract term as funding becomes available. Proposals shall provide details of other systems and capabilities not mentioned in this proposal.

Each tier shall include base items identified in that tier and a minimum of 50% of optional items identified for that tier. Successive tiers shall include all base items identified and 50% of optional items of all previous tiers.

**Tier 1**

**Paratransit and Small Rural System Fare revenue reporting**

**Ridership reporting**

• Automatic Vehicle Location and Computer Aided Dispatch (CAD/AVL)

• Single point vehicle log-in (AVL, AVA, Farebox, Destination Sign, etc.)

• Video surveillance system integration

**Fare collection/payment solution**

• Pedestrian recognition / warning system

• Paratransit management system

• Automated pre/post-trip system

**Tier 2**

**Small to Medium System with Fixed Route and Paratransit**

• Automatic voice annunciation (AVA)

**Automatic passenger counter (APC)**

**Real-time passenger information system** (mobile app, SMS messaging and website solution)

• Fixed route “run-cut” scheduling system

• Passenger complaint/commendation tracking and reporting system

• Maintenance management system

**Operational reporting Incident reporting**

• Garage WLAN

• Centralized AVL database control system (facilitates local updating for route and schedule changes into the AVL system)

• Automatic bicycle counter (ABC)

• Vehicle Telematics connectivity

• Collision avoidance system (Lane departure, forward collision warning, pedestrian warning, blind spot detection)

**Tier 3**

**Medium to Large System with Fixed Route and Paratransit**

• Yard management system

• Automated Vehicle Monitoring option

• Automated fuel management system

• On-board infotainment system

• Transit center bus bay real-time electronic signage

• Transit center real-time informational electronic displays

• Payroll management system

• Bus stops electronic signage (super stops and select bus stops)

• Passenger Wi-Fi

• Open data exports and reporting

The proposer should determine all necessary software, hardware, integration with legacy and proposed systems, training, and services needed to maximize the proposals technical specifications