

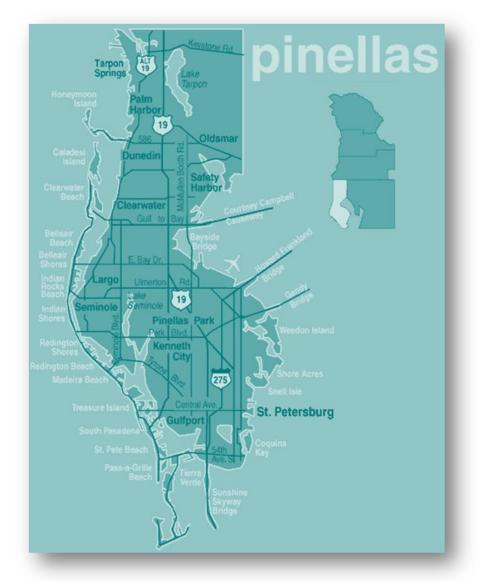
# Pinellas County's Newest Resident: AVA

8/17/2022

**Pinellas Suncoast Transit Authority** 

# **PSTA – Pinellas County**









## **PSTA Transportation Innovation**



 PSTA is incorporating transportation technologies that are:

• <u>A</u>utonomous



• **C**onnected



• <u>E</u>lectric



• **S**hared



 PSTA is a nationally recognized leader in innovation









## **Operated Shuttles**

Beep has operated two NAVYA & Olli shuttles for PSTA.

### **Drive System**

Motor: Electric

Operating speed: up to 15 mph

### **Energy**

Operating time: 7-9 hours

• Charge duration up to 90%: 3-4 hours

#### **Sensors**

- Light Detection & Ranging (LiDAR)
- Cameras
- Dedicated GPS Base
- Safety sensors that detect obstacles in roadway







### **Meet AVA**



 AVA (Autonomous Vehicle Advantage) is the latest temporary resident of Pinellas County

#### • St. Petersburg:

- Operated Nov '20 Mar '21
- AVA provided almost 5,000 rides
- An average of 63 people per day rode AVA

#### Dunedin:

- Operated Spring '21 & '22
- AVA provided over 3,000 rides
- An average of 50 people per day rode AVA

#### Clearwater:

- Operated Feb Mar '22
- AVA provided over 2,700 rides
- An average of 89 people per day rode AVA



## St. Petersburg AVA Route



- 2 shuttles were deployed with 1 attendant for customer safety and feedback per shuttle
- Shuttle operated on a continuous
  1-mile loop along Bayshore Drive
- Fare-free service
- Operated Wed Sun from 10am to 10pm
- Project was funded through a FDOT Commuter Assistance Program (CAP) grant with matching funds from PSTA

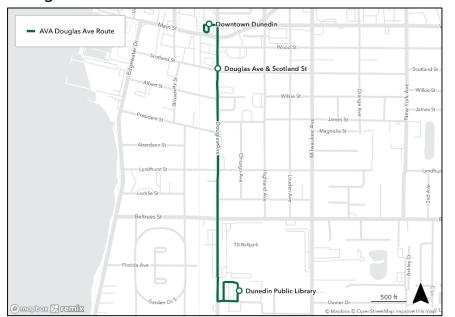


### **Dunedin AVA Routes**

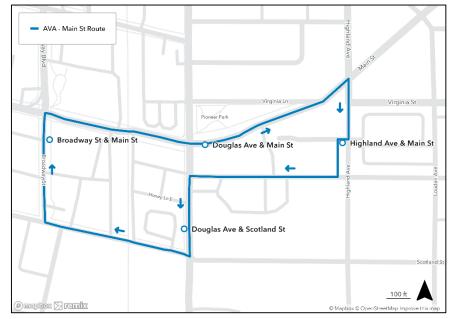


- 2 shuttles were deployed with 1 attendant for customer safety and feedback per shuttle
- Shuttle operated on a continuous loop along Douglas Ave & Main St
- Fare-free service
- Operated Wed Sun from 10am to 10pm
- Returned to Douglas Ave late April 2022

### Douglas Ave



#### Main St



### **Clearwater AVA Route**



- 2 shuttles were deployed with 1 attendant for customer safety and feedback per shuttle
- Shuttle operated on a continuous 1.5 mile loop along Gulfview Blvd
- Fare-free service
- Operated Tues Sun from 10am to 10pm



## **AVA ADA Day**



 PSTA hosted an ADA Day to demonstrate how the shuttle accommodates assistive mobility devices





Pinellas Suncoast Transit Authority

## **AVA First Responder Day**



 PSTA hosts a First Responder Session before each deployment so that police/fire/paramedics can learn about the AV shuttles





## **AVA Demonstration Takeaways**



Expect the unexpected



Plan for regulation



Sharing is caring



Slow your roll



Pinellas Suncoast Transit Authority

Sleeping's hard when you're tall



Scooters!



### Strategic Partnerships

### **Vehicle Roadmap Strategy**

### **FMVSS Compliant**







Ly local motors











2020 -----2021-----2022 ------2023

- Experimental platforms
- Autonomous: 12mph
- Regulated: 25mph roads
- ■8 10 passengers
- ADA Compliant & Accessible

- Automotive w/ ADS
- Autonomous: 25MPH
- Driven: 55MPH
- Seating: 8 -10 passengers
- FTA Buy America Compliant

- Automotive-grade
- Autonomous: 30+ mph
- ADA Compliant & Accessible
- Seating: 10 passengers
- FTA Buy America Compliant



### **Future**



- PSTA is reviewing future AVA deployment options
- Data collected through demonstration program will inform future deployments of autonomous vehicles
- Potential Future Public Transit AV Deployments
  - Downtown/neighborhood circulation
  - Bus yard operations
  - Bus on shoulders
  - Bus Rapid Transit





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