



**Pierce  
Transit**

# **CAD/AVL System Replacement**

524

Pierce Transit

WASHINGTON  
C4313C

# CAD/AVL Replacement Project

## Current System

- Our Orbital OrbCAD System went live in March 2009
  - Computer Aided Dispatch
  - Automatic Vehicle Location
  - Automated Vehicle Announcements
  - Automated Passenger Counters
  - Bus Signage (interior and exterior)
  - Tracks On-Time Performance
  - Provides route adherence notifications
  - Digital Messaging to buses
  - Vehicle emergency alarms
  - Processes radio requests from vehicles to talk to dispatch
  - Controls Voice Radio System talk groups
  - Provides a real-time data feed to various transit apps, trip planners and vehicle arrival signs at transit centers

# CAD/AVL Replacement Project

## Current System – Why Replace?

- System and equipment have reached the end of their useful life
- All equipment is proprietary – and very expensive
- All enhancements / modifications extremely expensive
- Orbital was acquired by Xerox and several years later spun off to Conduent
- Current vendor upgrade path fully proprietary

## What we're looking for

- A modern, open standards product and open source equipment
- Freely available API's to interface with other systems
- State-of-the-Art system/technology that fully meets our needs
- Reliable, stable vendor
- Voice Over IP Radio (VOIP) solution

# CAD/AVL Replacement Project

## Vehicles Types and Counts

- PT buses - 202
- Sound Transit buses - 132
- SHUTTLE (Paratransit) - 91
- Service Supervisor vans - 66
- Facilities Maintenance vehicles - 32
- Relief vans - 26
- Other (Safety, I.T., Construction, etc.) – 16
- Admin vehicles – 5

570 total vehicles

# CAD/AVL Replacement Project

## Current Project Status

- Released RFP for a consultant to assist us in developing an RFP and assist in vendor selection and system implementation
- The IBI Group was the successful proposer
- IBI has begun fact-finding sessions to fully determine Agency needs
- Current timeline for RFP release is Q1 2020
- Once a vendor is selected, we expect about an 18 month to 2 year implementation



## Project Funding

- \$11 Million in local funds for PT
- Sound Transit will cover costs for their fleet



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**Questions?**

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