

# Transportation – Bus and Bus Facilities



## UPGRADE REGIONAL VEHICLE MANAGEMENT SYSTEM

Subcommittee – Transportation – Housing Urban Development (HUD)  
and Related Agencies

**Request:** Appropriate \$4,560,000 to Upgrade Regional Vehicle Management System.

### Community Value:

The purpose of the Vehicle Management System (VMS) upgrade is to provide the Public Transit Department (PTD) and its regional partners with the latest technology available for managing the regional transit fleet.

The VMS uses a Global Positioning System that monitors vehicles while they are on the street providing service. This technology specifically provides location of each vehicle, on-time performance of each vehicle and efficiency of each vehicle. It also provides for text and voice messaging among dispatch, the Operations and Control centers and operators in their vehicles.



VMS is in its sixth year of operation. The technology that it is based on is no longer supported, and the operating system and database need to be upgraded along with the fixed-end hardware and workstations that are integral to the operation of the system. This is a regional project that includes city of Phoenix Public Transit Department and all of its regional partners.

### OrbCAD-XP Features



### Background:

This project includes design, engineering, planning services and implementation for the upgrade and determination of existing and future needs for the Vehicle Management System. This includes features that are not present in our system but that have been implemented at other agencies since we implemented the Phoenix regional system six years ago.

PTD and their regional partners are in the process of starting a conceptual design to join the Regional Wireless Cooperative (RWC) to provide regional transit with voice radio over its 800/700 MHz radio system. VMS will be modified to integrate voice and data and to convert existing 450 MHz voice channels to data.

Contact: Debbie Cotton, Public Transit Director  
602-495-0418, [debbie.cotton@phoenix.gov](mailto:debbie.cotton@phoenix.gov)

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