

# Statewide Transit Intelligent Transportation Systems (ITS) Program Update

**May, 2011**

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# ITS Strategic Plan

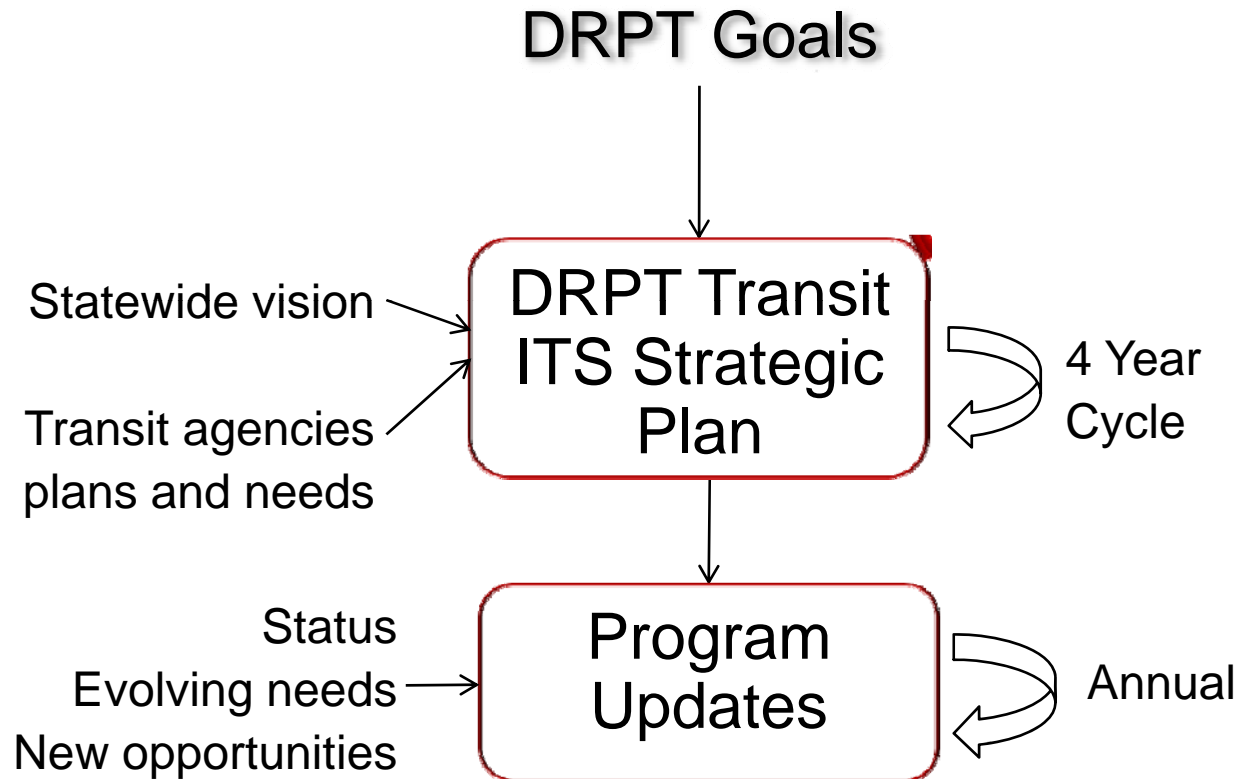
## Objectives:

- ❑ Identify transit ITS technologies and their applicability to Virginia transit agencies
- ❑ Provide an evolving map of the deployment of transit ITS in Virginia
- ❑ Identify increased efficiencies, cost savings and greater benefits through increased coordination of transit ITS deployment in VA
- ❑ Identify 2-year and 6-year program plans

Completed September 2009



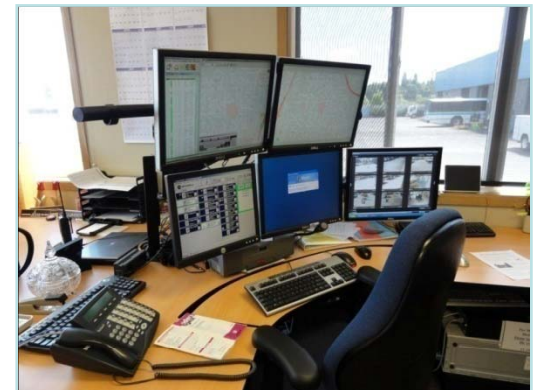
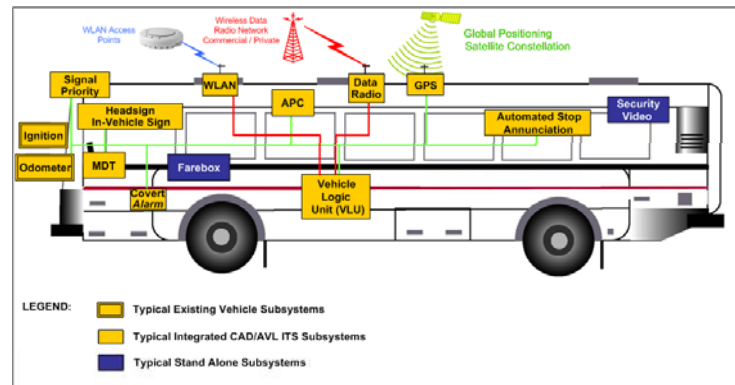
# ITS Strategic Planning Process



# Program Update Objectives

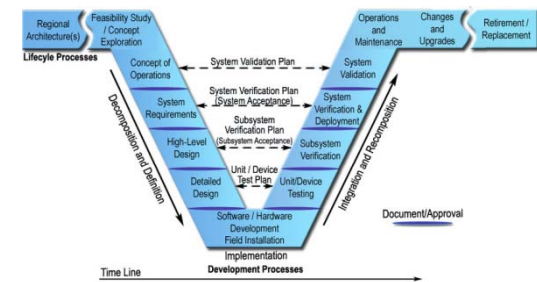
## Project Objectives:

- ❑ Identify near and medium term transit ITS needs around the state
- ❑ Review progress against plan
- ❑ Provide targeted assistance to support grant application to fulfill these needs
- ❑ Develop ITS program update



# Workshop Goals

- ❑ Seek input to statewide ITS program
- ❑ Identify agency needs and issues
- ❑ Share latest industry trends
- ❑ Promote Systems Engineering process
- ❑ Identify opportunities for coordination
- ❑ Increase awareness of DRPT funding opportunities



# Workshop Participation

<b>Workshop location</b>	<b>Participants</b>
<b>Charlottesville</b>	Charlottesville Area Transit Fairfax County DOT (Fairfax Connector) Harrisonburg Department of Public Transportation
<b>Blacksburg</b>	Greater Lynchburg Transit Company Mountain Empire Older Citizens Inc. Pulaski Area Transit RADAR Blacksburg Transit
<b>Arlington</b>	Alexandria Transit Company Arlington Transit WMATA Virginia Railway Express
<b>Fairfax</b>	Fairfax CUE Fairfax County DOT (Fairfax Connector) Loudoun County Office of Transportation Services
<b>Richmond</b>	Greater Richmond Transit Company Lake County Area Agency on Aging Fredericksburg Regional Transit
<b>Williamsburg</b>	Williamsburg Area Transport Hampton Roads Transit
<b>Purcellville</b>	Virginia Regional Transit

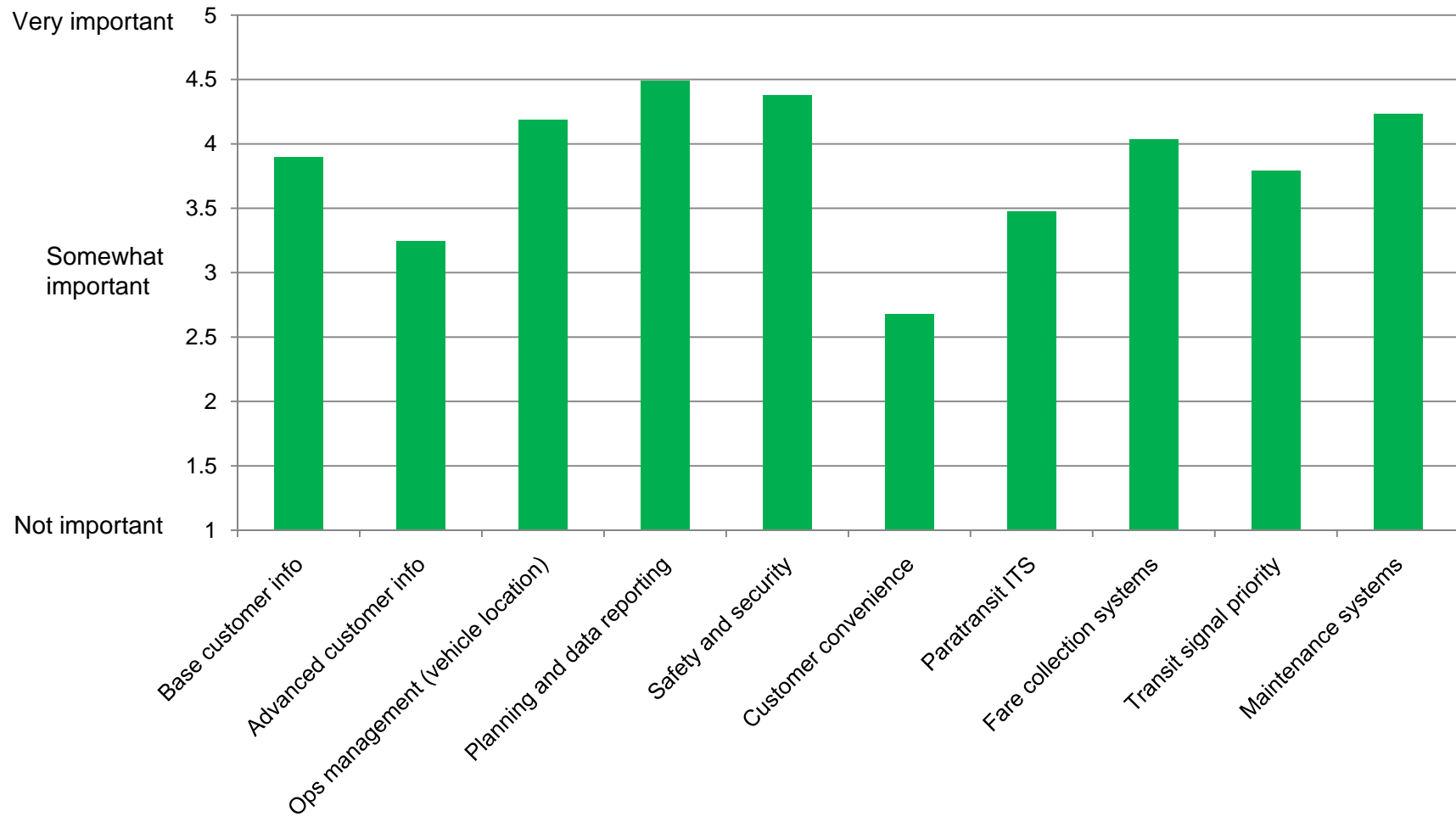
# Agency Needs

- ❑ Functional needs based survey covering:
  - Customer
  - Driver
  - Planning & Management
  - Maintenance and Security
  
- ❑ Round table discussion of current technology plans
  
- ❑ Discussion of current technology related issues



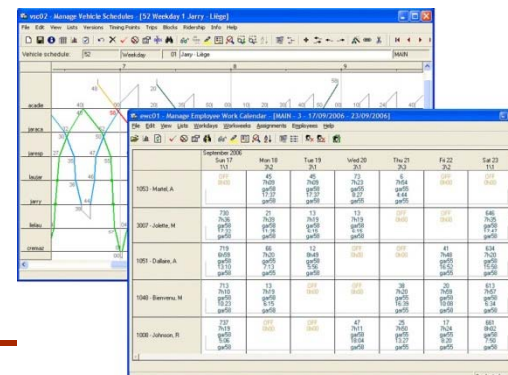
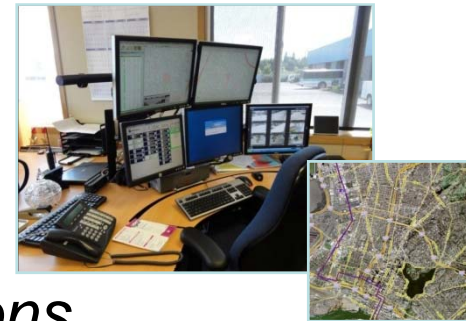
# Survey Results - Summary

## Agency Needs Mapped to ITS Technology Areas



# Agency Needs

- Top ten needs covered:
  - *Locating vehicle in emergency*
  - *Information about service disruptions*
  - *Locating vehicles at all times*
  - *Video of transit vehicle*
  - *Performance measures and statistics*
  - *Automating passenger counting*
  - *Generating electronic schedules*



# ITS Program Requests

- ❑ \$2.1 in requests consistent with DRPT Transit ITS Plan

Williamsburg	Procurement support for ITS deployment
Alexandria	Extending existing AVL and ATIS to new BRAC buses
Bay Transit	Dispatching, vehicle location and mobile data terminals – additional funding
Blacksburg	Real time bus tracker enhancements
Blacksburg	Communications options study for bus fleet
Charlottesville	Maintenance asset management and real-time inventory software
Fredericksburg	ITS deployment and Systems Engineering
Loudoun	Hardware and software for automatic vehicle announcements
NVTC	Development of a bus virtual machine for multiple applications
Pulaski	ITS Planning and Systems Engineering
PRTC	CAD/AVL Smart Bus replacement and farebox integration
VRT	ITS Planning and Systems Engineering

# Cross Cutting Program Elements

- ❑ Electronic fare media platform
- ❑ Real-time data sharing – API
- ❑ Transit ITS Community Support
- ❑ Program outreach and update

**Thank you!**

**Questions?**