## **TPB SCENARIO STUDY**

# Progress on "CLRP Aspirations" & "What Would it Take?" Scenarios

Michael Eichler Department of Transportation Planning

Presentation to the TPB Regional Bus Subcommittee

## The Two New Scenarios

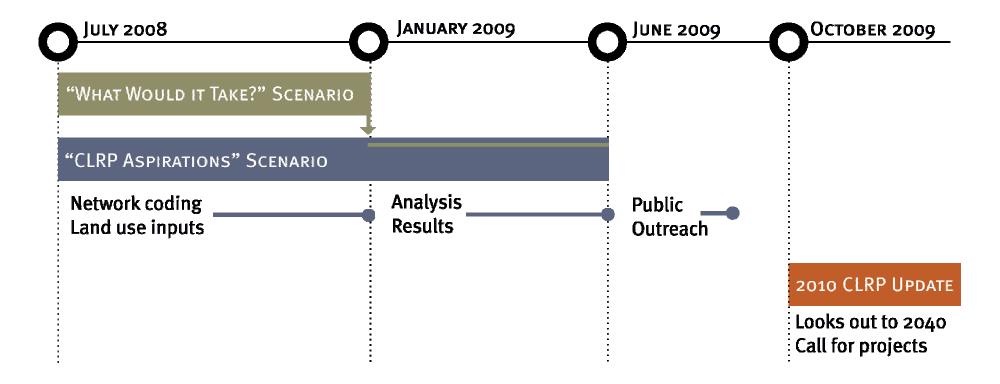
### **CLRP Aspirations**

Draws on past scenarios (5 transportation/land use scenarios and 2 value pricing scenarios) to provide an ambitious yet attainable vision of land use and transportation for the 2010 CLRP update.

#### What Would it Take?

Starts with CO2 goals (80% below 2005 levels in 2050 and 20% reduction by 2020) and assesses what scales and combinations of interventions will be necessary to achieve the goal.

# **Study Timeline**



# **Developing the Scenarios**

## **CLRP Aspirations**

- 1. Transportation Component
- 2. Land Use Component

### **WWIT**

3. Evaluation of WWIT Strategies

# Developing the CLRP Aspirations Scenario

# 4 principles of RMAS

- 1. Bring people closer to their jobs, thereby reducing their commuting distance
- 2. Create a balance between the number of workers and jobs available in the region
- 3. Land use shifts should push the boundaries of current zoning and comprehensive plan restrictions, while insuring that changes remain feasible
- 4. Land use changes should be **supported by high quality transportation infrastructure**.

# **CLRP Aspirations**

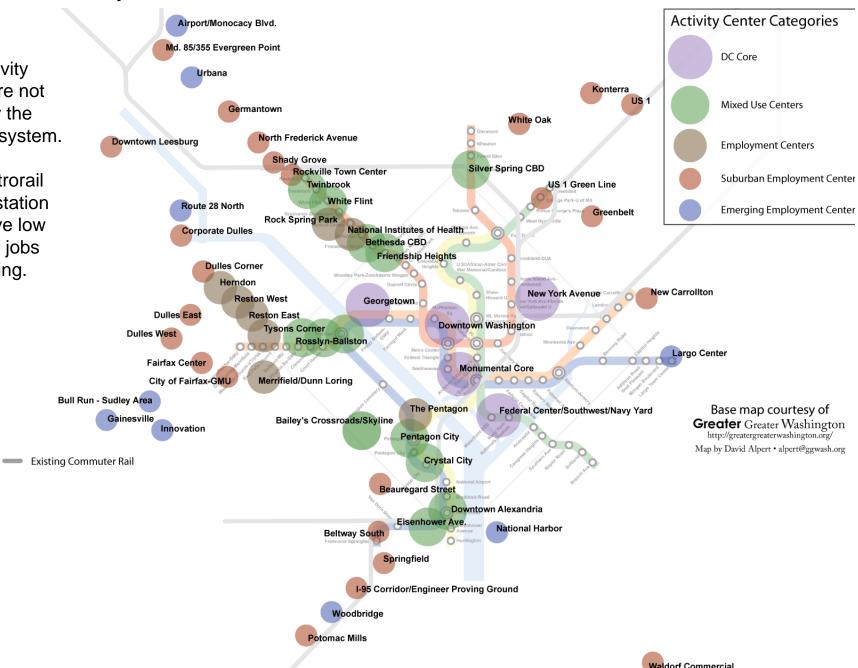
# **The Transportation Component**

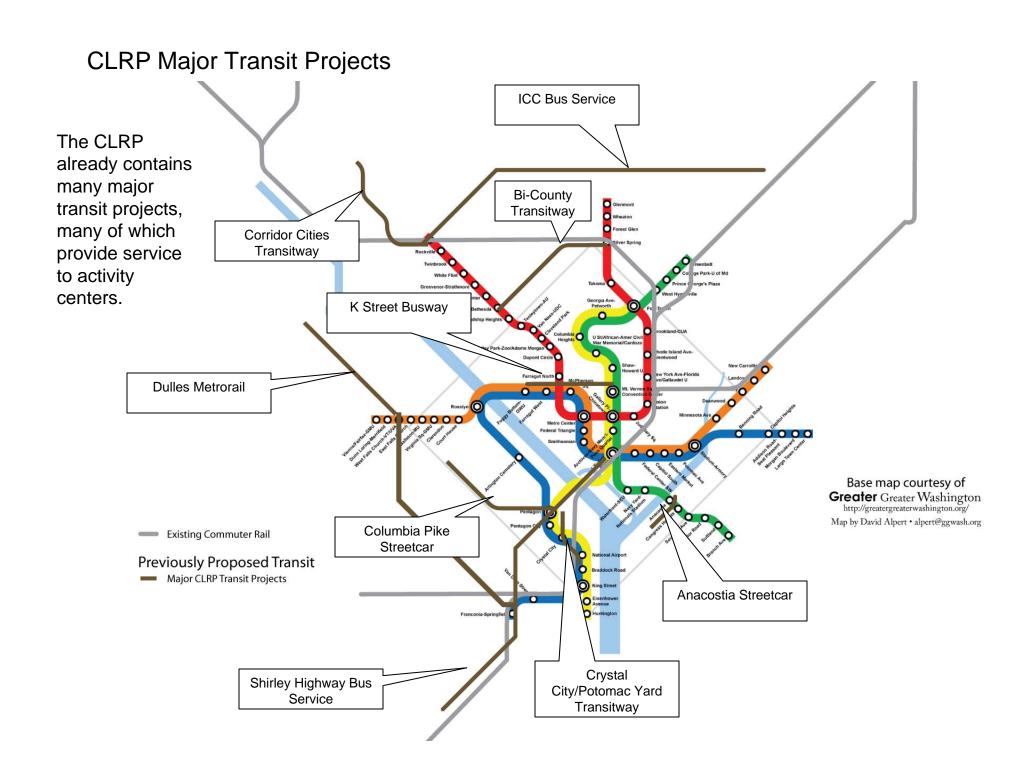
# Existing Metrorail and Commuter Rail Rossly. 0000 <u></u> 00000 Base map courtesy of Greater Greater Washington http://greatergreaterwashington.org/ Map by David Alpert • alpert@ggwash.org Existing Commuter Rail

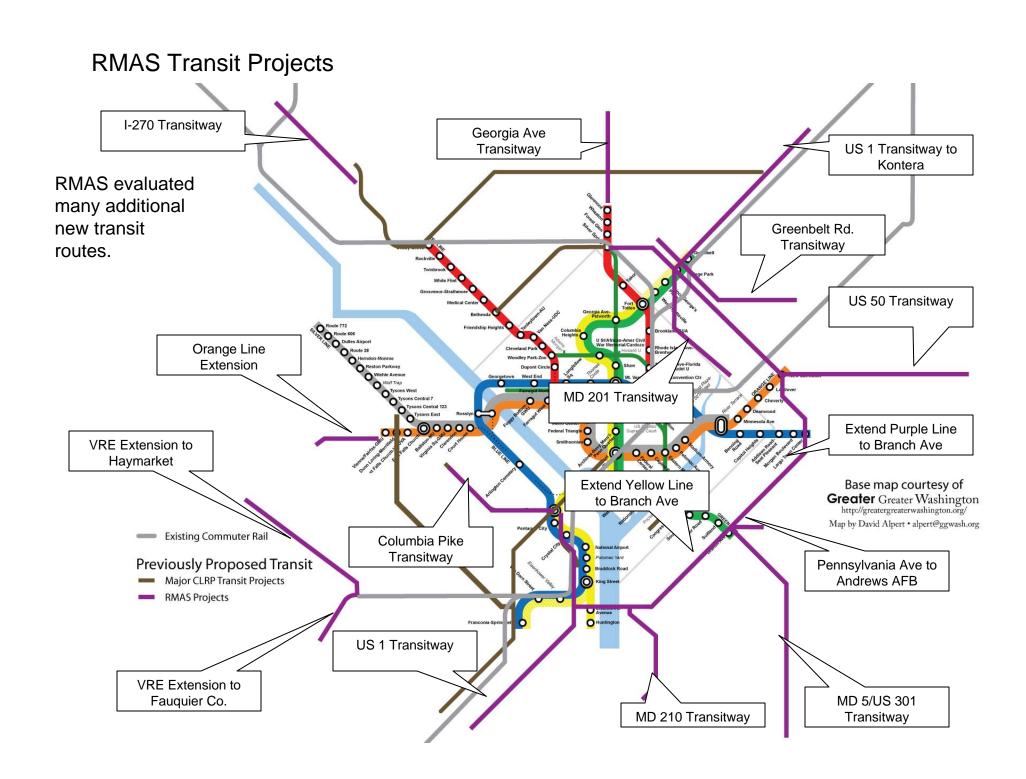
#### **Regional Activity Centers**

Many activity centers are not served by the Metrorail system.

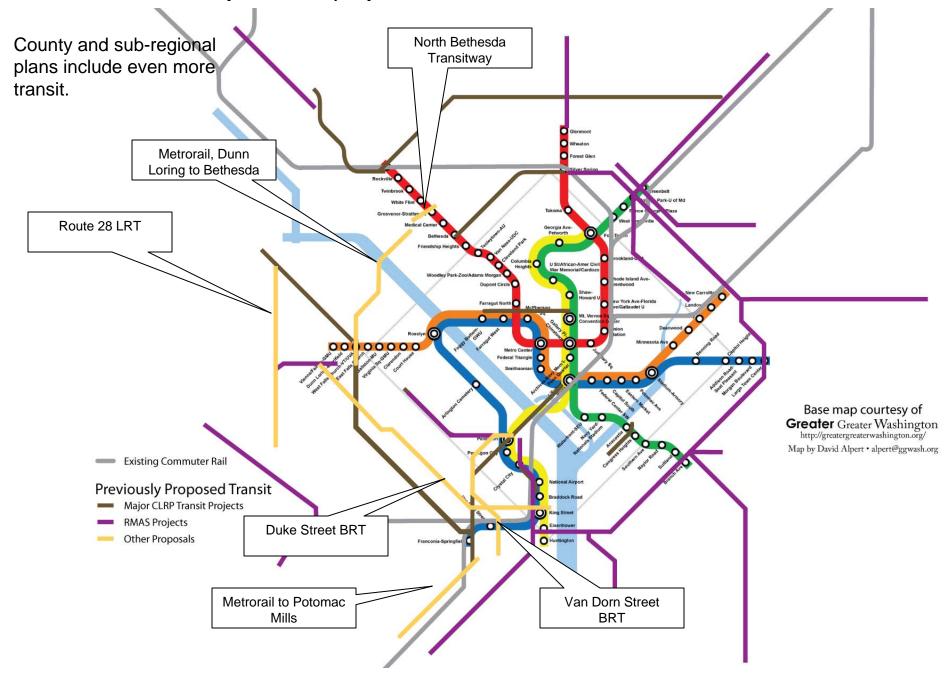
Many Metrorail stations' station areas have low density of jobs and housing.



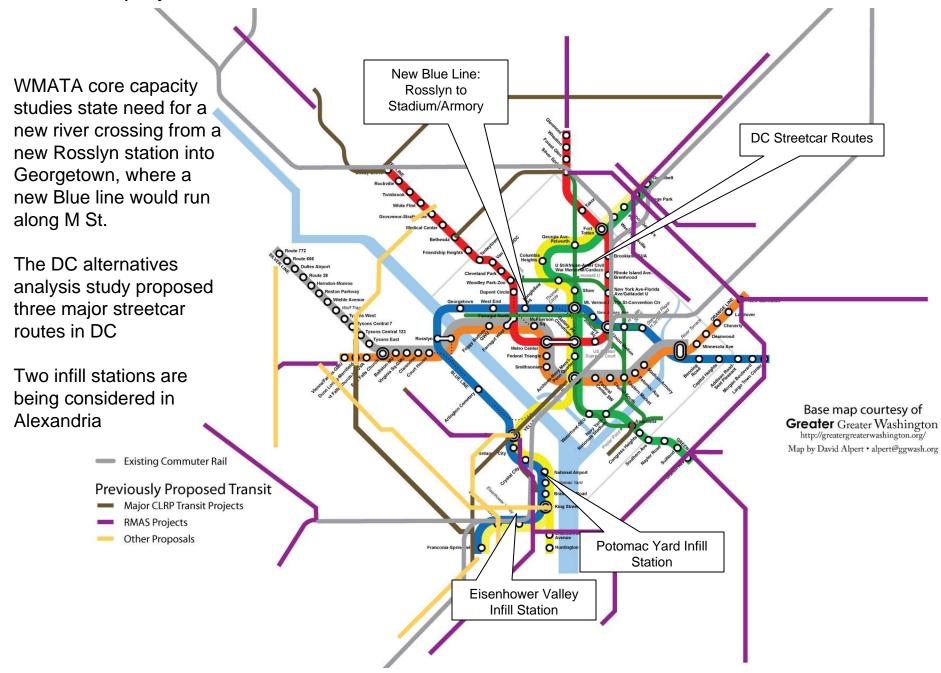




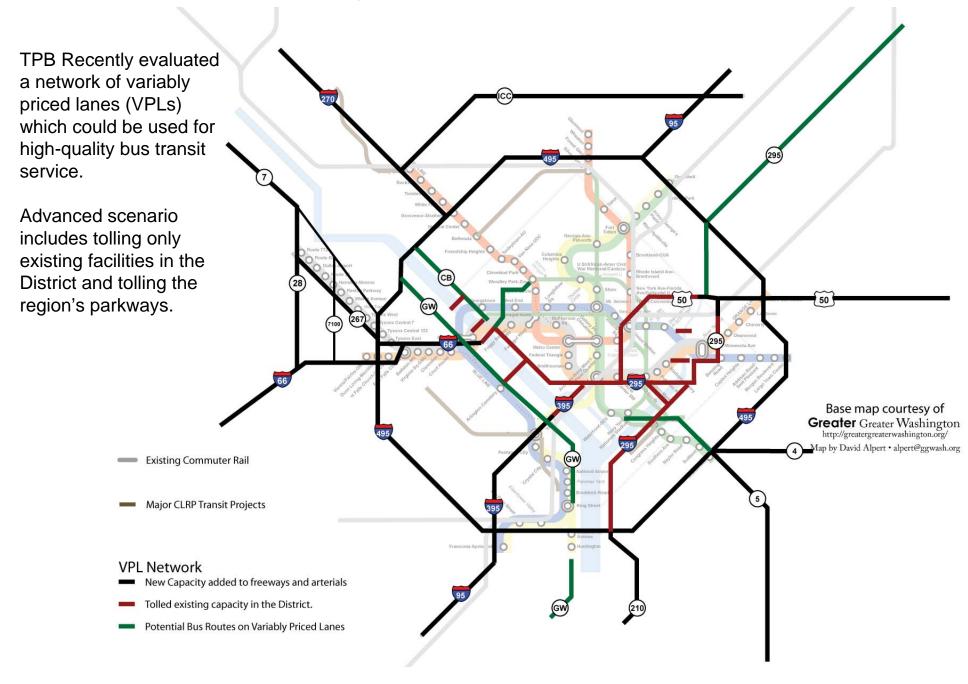
#### Other studied major transit projects



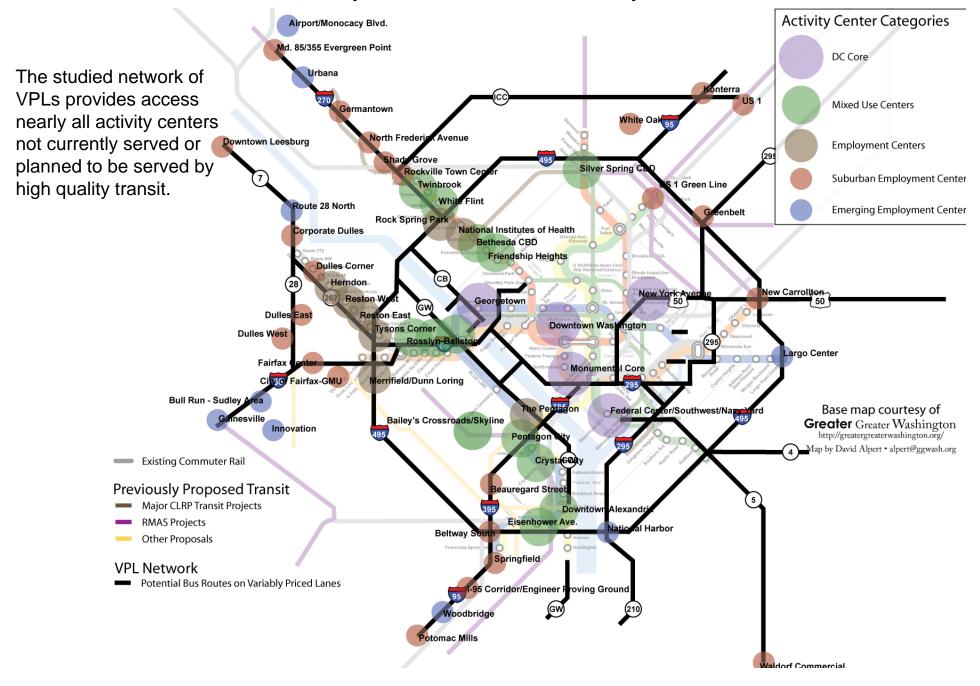
DC rail projects: WMATA and DCAA



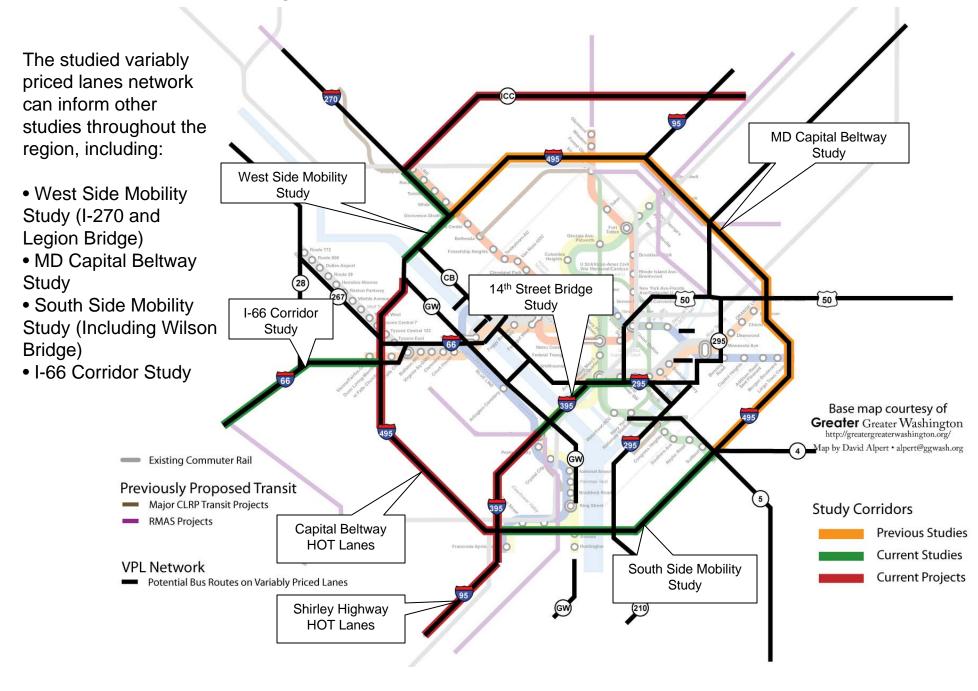
#### Studied Network of Variably Priced Lanes (VPLs)



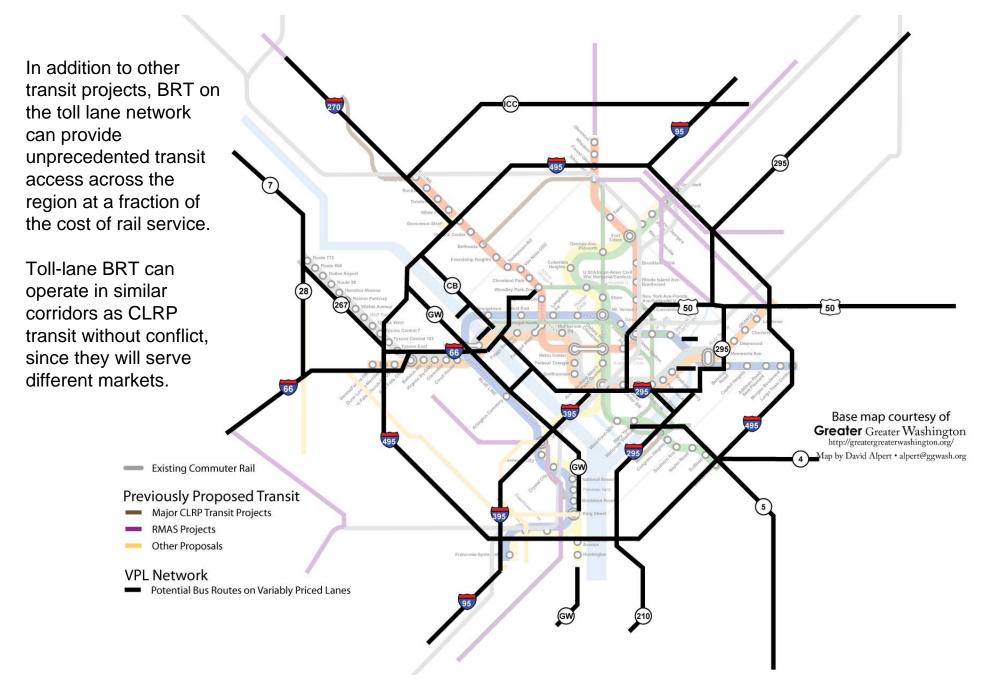
#### Studied Network of Variably Priced Lanes with Activity Centers



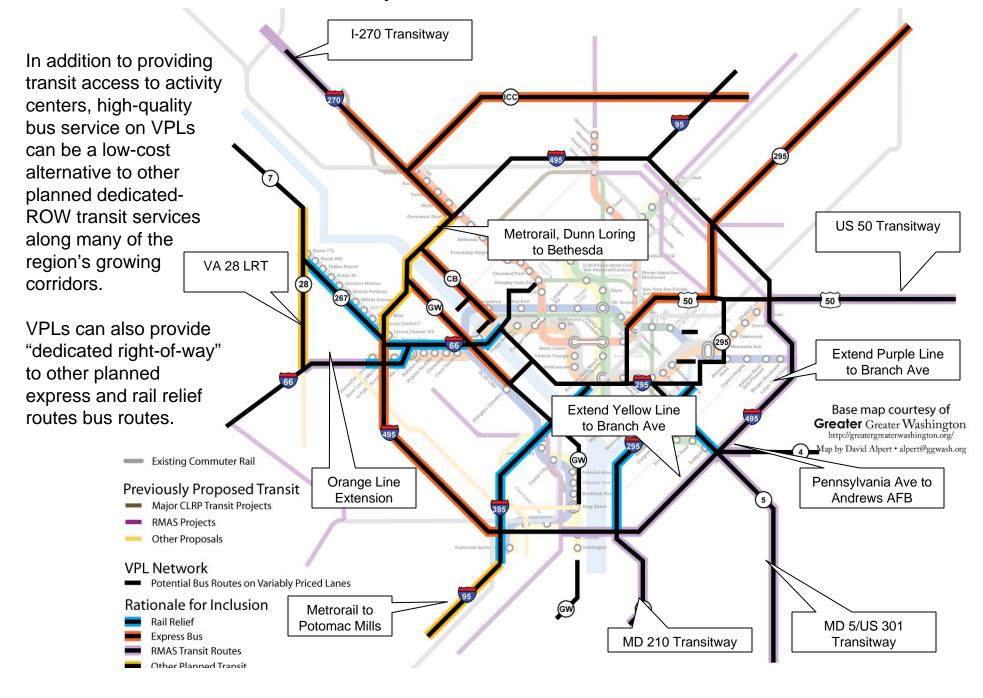
#### Interaction With Regional Studies



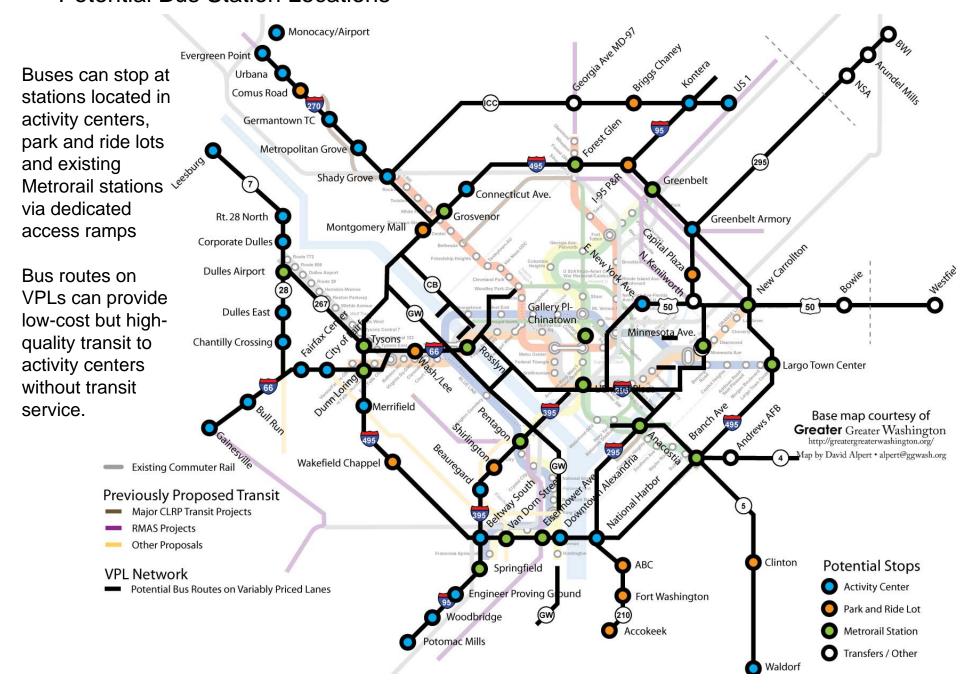
#### BRT on the Toll Lane Network?



#### Rationale for BRT on Variably Priced Lanes



#### Potential Bus Station Locations



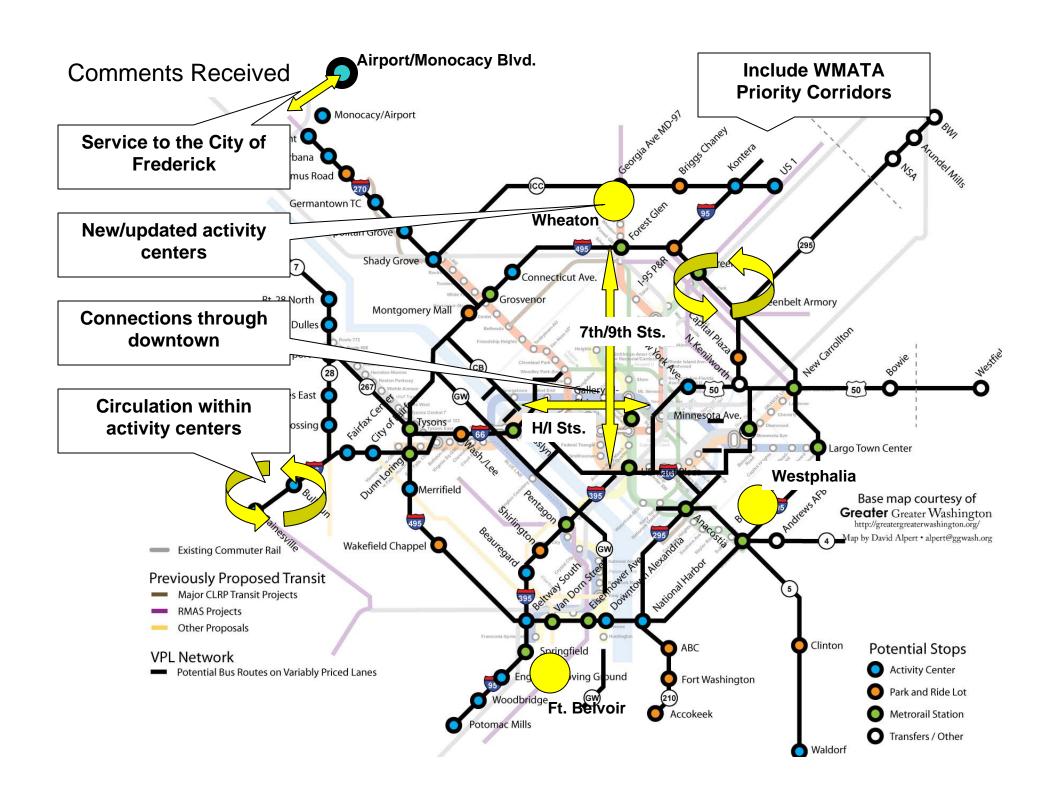
# **Bus Service on Variably Priced Lanes**

- Previous pricing study evaluated regular and express bus service operating on the variably priced lanes
- CLRP Aspirations Scenario to include BRT-like bus stations and technologies at highdemand locations





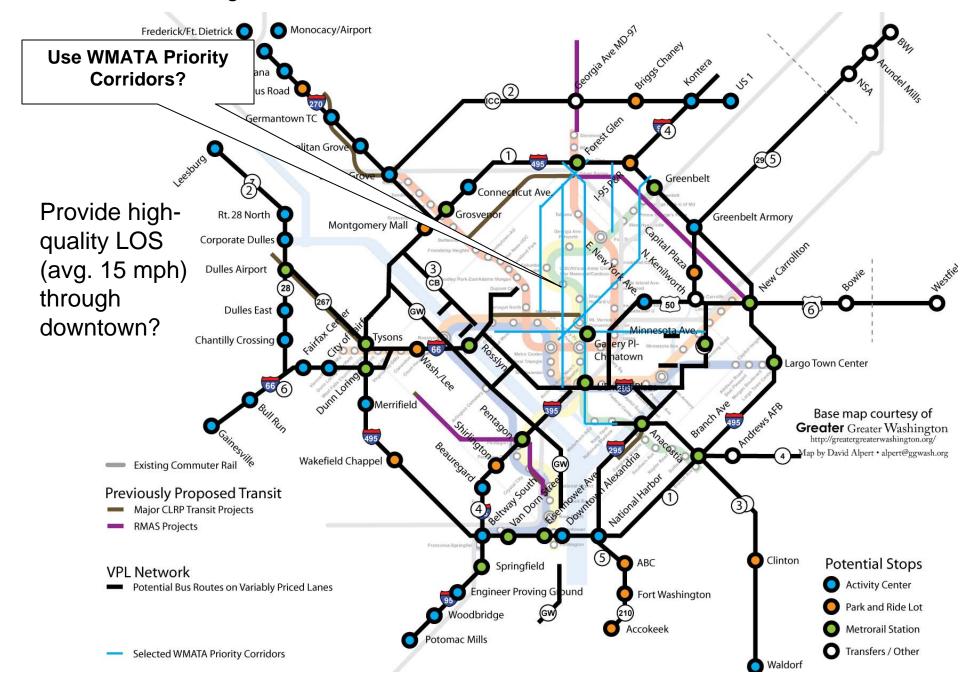
The Shirlington Transit Station, Arlington, VA.



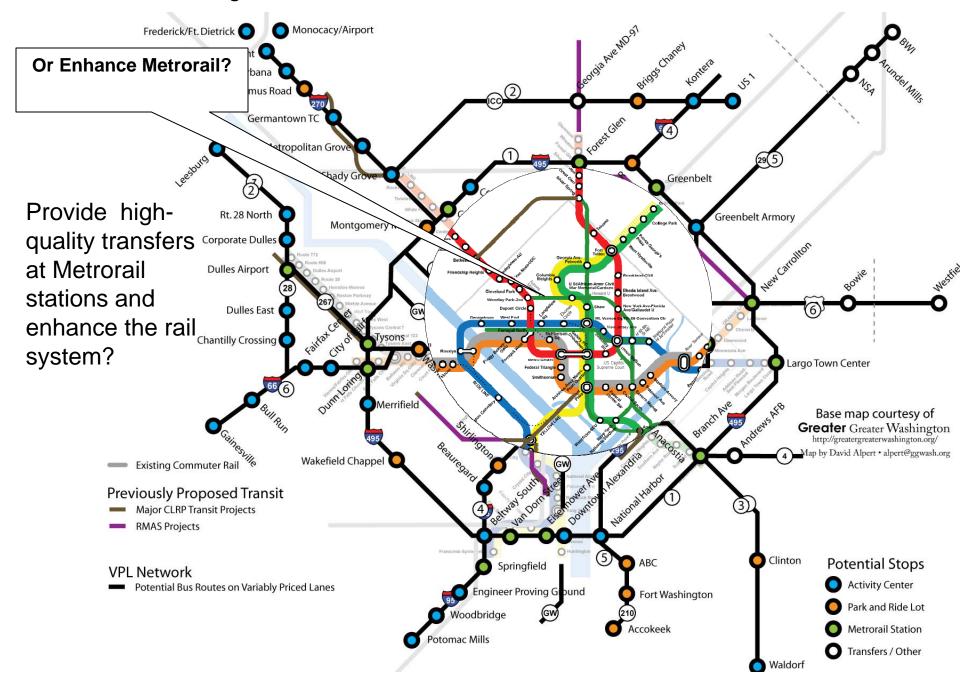
#### Connections Through Downtown DC?



#### Connections Through Downtown DC?



#### Connections Through Downtown DC?



## **Questions for Consideration**

### Activity Centers:

- Can we shift development to new areas, including Westphalia, Fort Detrick, Fort Belvoir and Wheaton?
- Are there other areas that are not activity centers that deserve more development?

The land use component of the scenario is being addressed by TPB staff in conjunction with the COG Planning Directors Technical Advisory Group

## **Questions for Consideration**

## Should other transit projects be included?

- DC Streetcar, Three routes: Georgetown to L'Enfant Plaza, Georgetown to Minnesota Ave, Bolling AFB to Silver Spring
- DC BRT, Two routes: Woodley Park to L'Enfant Plaza, Georgetown to Skyland
- Alexandria BRT, Two routes: Duke Street and Van Dorn St.

Other studied projects incorporated into toll-lane BRT system.

## **Questions for Consideration**

- BRT Level of Service:
  - Peak and off peak headways
    - 10 minutes peak, 30 minutes off-peak?
  - Operating assumptions for freeways and arterials
  - Payment system assumptions (on- vs. off-board)
  - Boarding platforms, station areas, number of doors
- Park and Ride Lots
  - Many new, high-capacity park-and-ride lots need to be added
    - Especially needed with tolling of existing lanes
  - Where should they be located? Capacity for how many vehicles?

What other criteria must be specified before the network can be coded?

## **Next Steps**

Final review of transportation network by TPB Scenario Study Task Force in October

Code network and begin analysis