

# I-95 Transit and TDM Plan

## Summary of Recommendations

# Project Objectives

1. Preserve and Maximize Capacity and Operational Efficiency of the I-95 HOT/HOV Lanes
2. Maximize Transit Utilization and Transit Market Share utilizing the I-95 HOT/HOV Lanes:
  - ✓ Expansion of Park-and-Ride Supply;
  - ✓ Increase in Transit Service Levels to Employment Centers; and
  - ✓ Enhance Transportation Demand Management

# Project Process

1. Document Existing Conditions
  - ✓ Park-and-Ride Lot Utilization
  - ✓ Transit Service Utilization
  - ✓ TDM Programs
2. Determine Transit and TDM Needs
  - ✓ Review of Prior Study Recommendations
  - ✓ Review of Demographic Projections
  - ✓ Discussions with Stakeholders and Service Providers
3. Presentation of Needs and Costs to Secretary of Transportation, Stakeholders and Public
4. Finalize Plan Recommendations

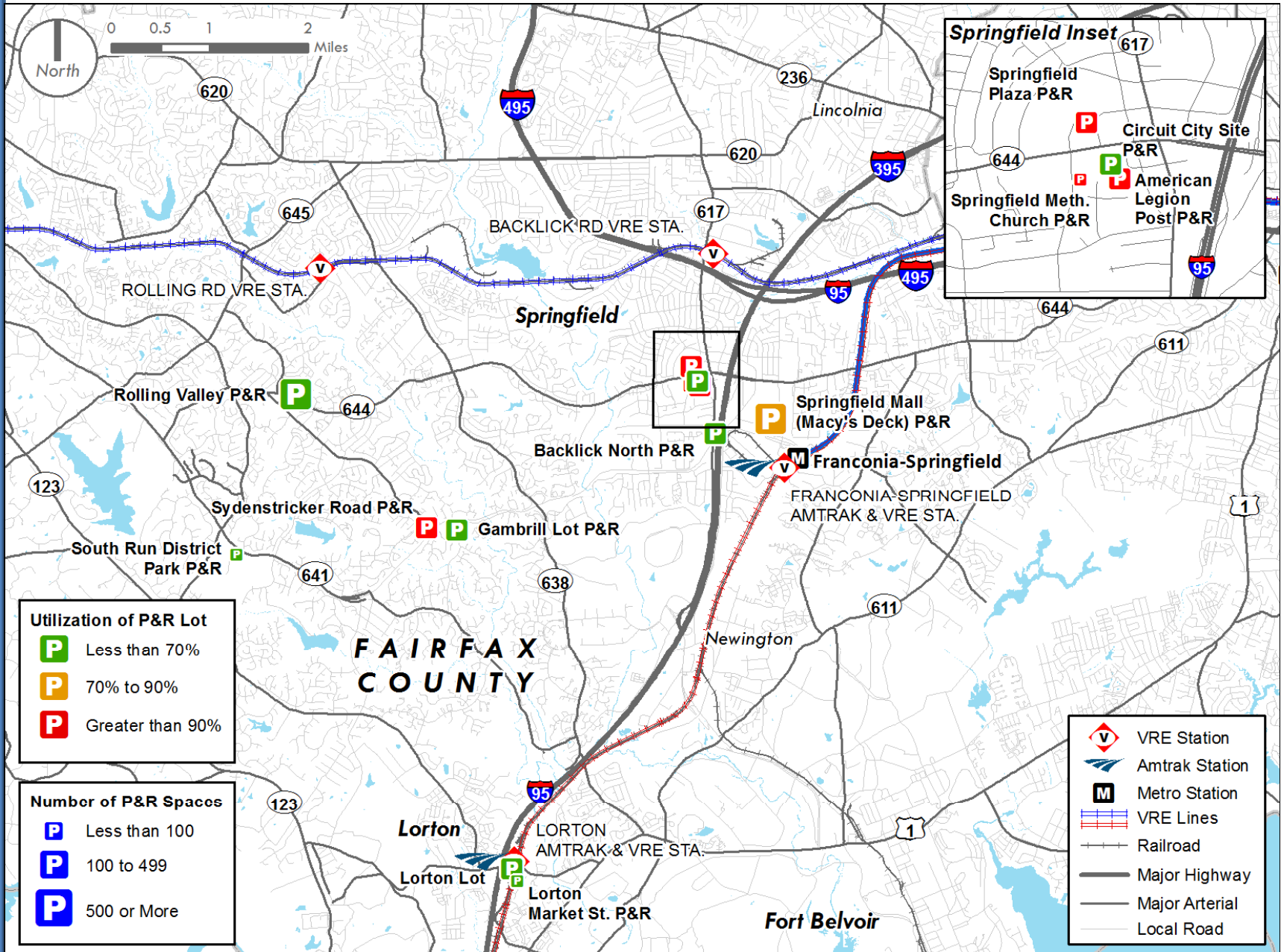
# I-95 Transit and TDM Plan Recommendations

- ✓ Park-and-Ride Lot Spaces for Bus and Car/Vanpool Users
- ✓ Bus Service Expansion
- ✓ Enhance TDM Program
- ✓ Franconia-Springfield Station Off-Site Parking Expansion and Shuttle

# I-95 Transit and TDM Plan Recommendations

**Park & Ride Lot Spaces  
For Bus & Car/Vanpool Users**

# Existing Park-and-Ride Lots in Fairfax County



# Summary of Park & Ride Lot Space Recommendations

## *Prior I-95/I-395 Transit & TDM Study*

North Corridor Need = **2,950 spaces**

South Corridor Need = **3,375 spaces**

Total Need = **6,325 spaces**

## *Revised Estimate of P&R Lot Needs*

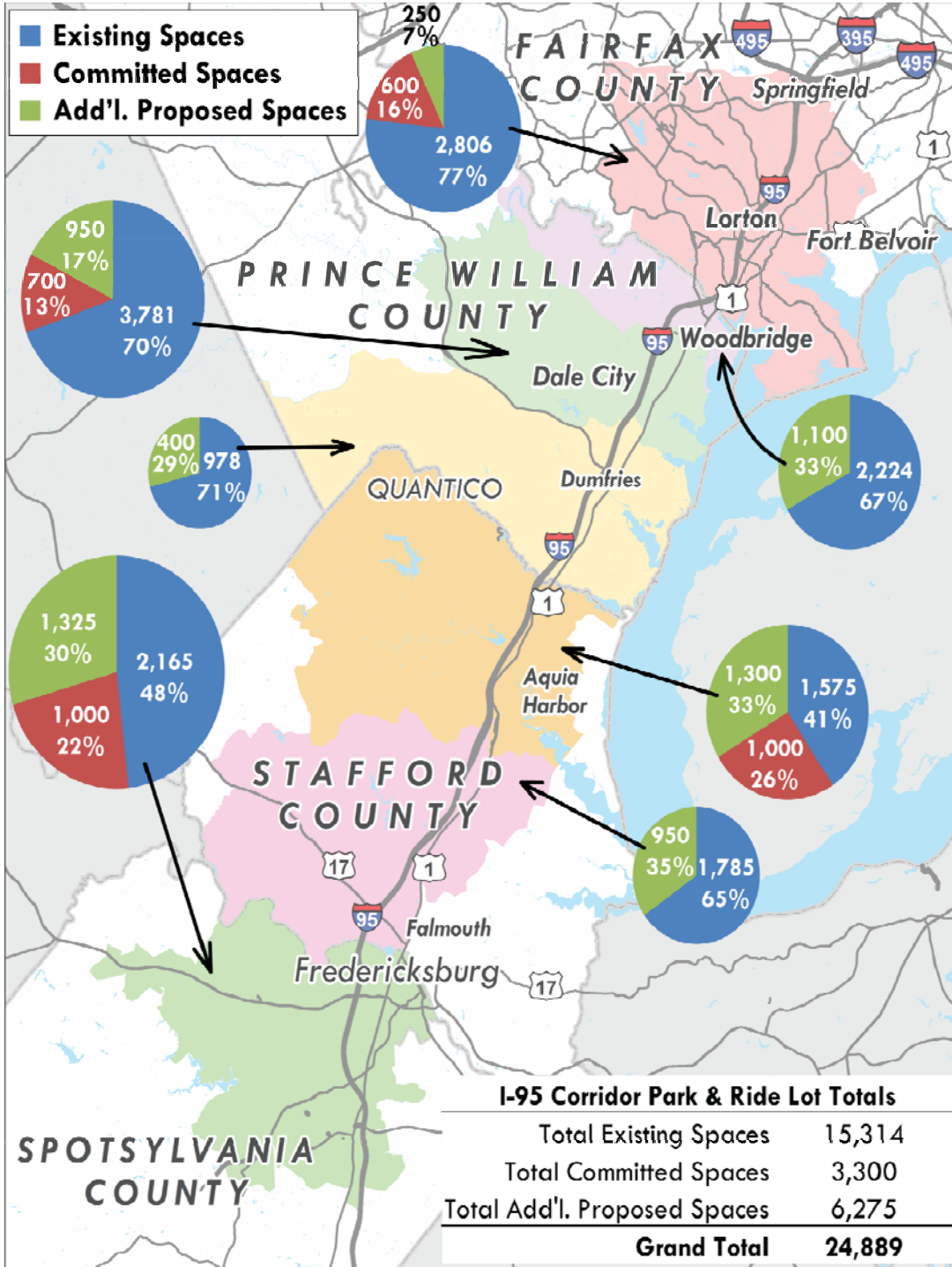
North Corridor Need = **4,000 spaces**

South Corridor Need = **5,950 spaces**

Total Need = **9,575 spaces**

VDOT program = **3,300 spaces**

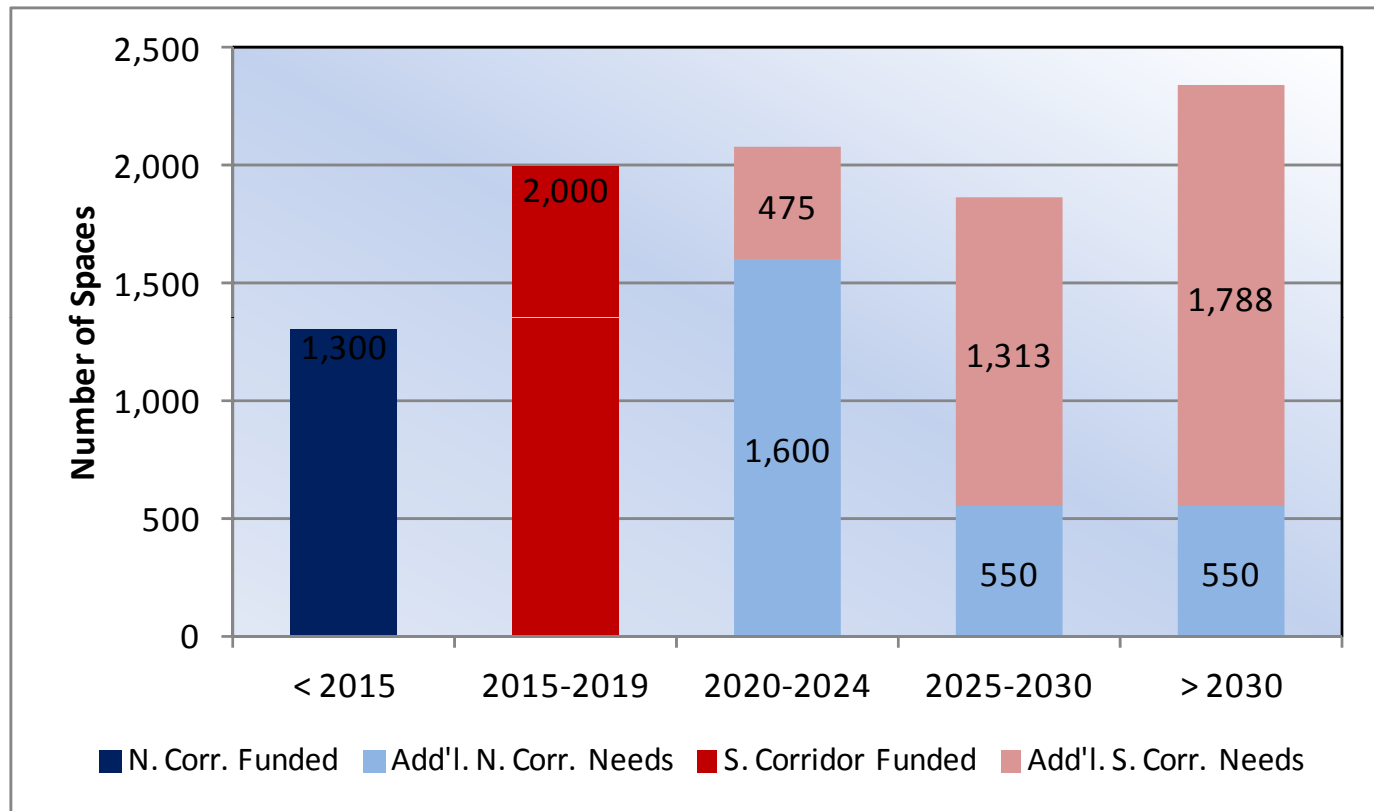
**Net Remaining Need = 6,275 spaces**



## Park & Ride Lot Summary

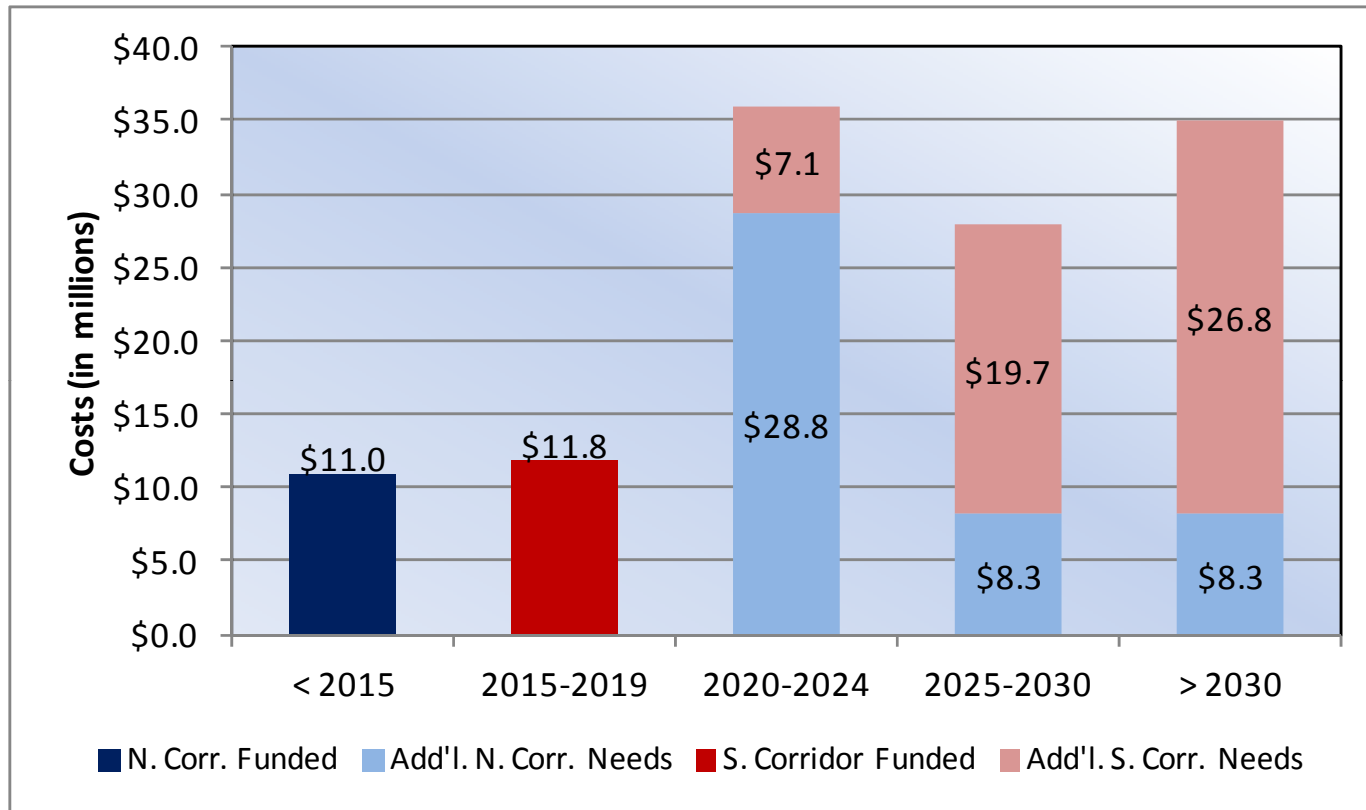


# Summary of Park & Ride Lot Space Recommendations



*North Corridor reflects spaces in Fairfax and Prince William Counties.  
South corridor reflects spaces in Stafford and Spotsylvania Counties.*

# Summary of Park & Ride Lot Capital Costs



Total P&R Space Costs = \$121.7 million  
Previously Committed Funds = \$ 22.8 million  
**Recommended for Six-Year Plan = \$ 98.9 million**  
*(2011 dollars)*

1. Costs for funded park & ride lots provided by VDOT.
2. Unfunded costs assume \$15,000 per surface space, as recommended by VDOT staff (costs inclusive of construction costs, ROW acquisition costs, site access improvement costs).

# I-95 Transit and TDM Plan Recommendations

## Bus Service Expansion

# Commuter Bus Service Expansion

1. Expand commuter services from Fairfax & Prince William Counties
2. Expand commuter services from Spotsylvania and Stafford Counties
3. Expand destinations served by commuter services
  - ✓ Additional service to D.C., Pentagon area, Rosslyn
  - ✓ Mark Center
  - ✓ Tysons Corner
  - ✓ Fort Belvoir
  - ✓ Franconia-Springfield Metrorail

# Commuter Bus Service Expansion: By County

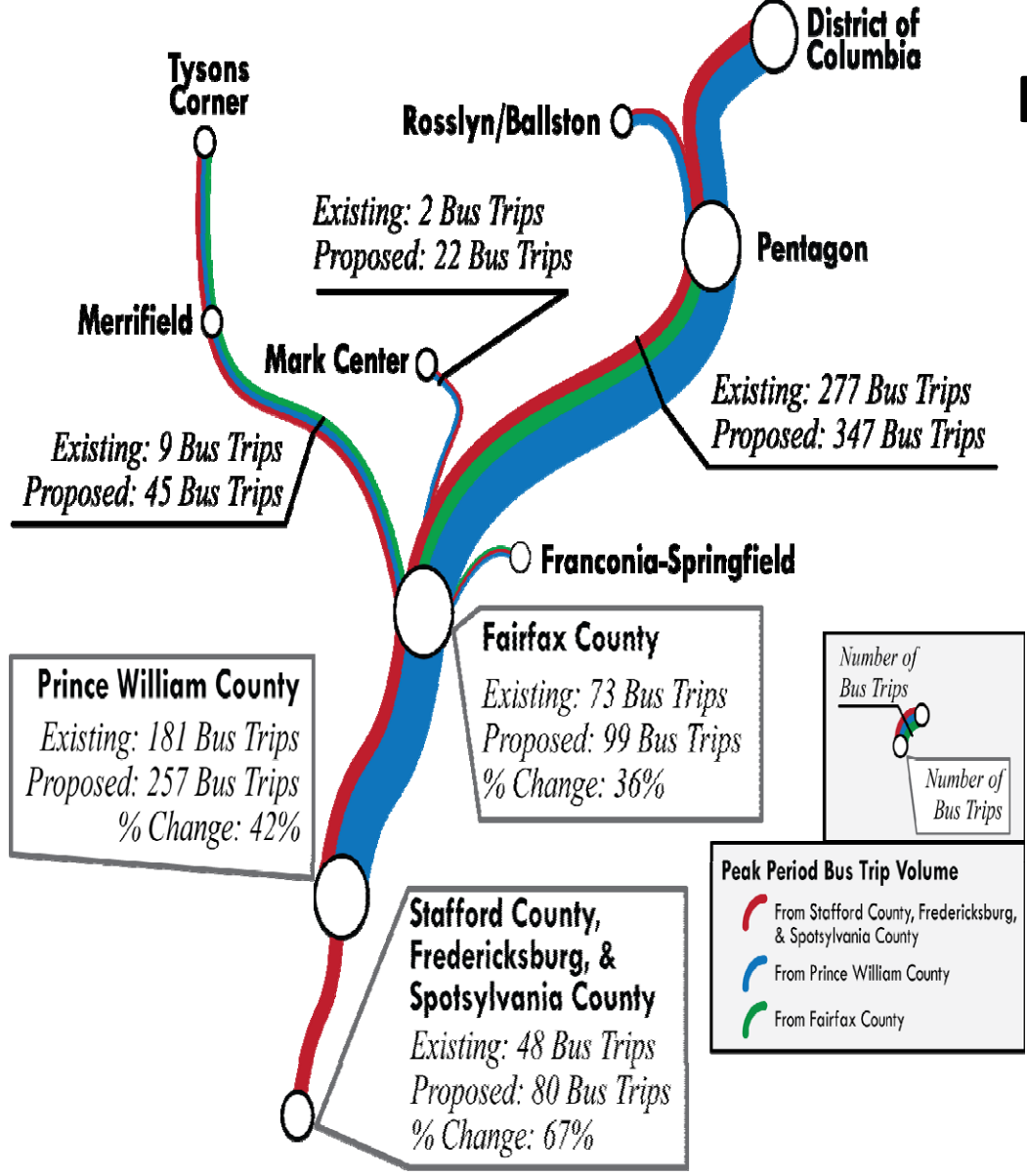
Commuter Trip Origins:	AM Peak Period Trips			PM Peak Period Trips		
	Existing	Proposed	% Change	Existing	Proposed	% Change
Stafford/Spotsylvania Counties	24	40	67%	24	40	67%
Prince William County	82	118	44%	99	139	40%
Fairfax County	33	46	39%	40	53	33%
<b>Total</b>	<b>139</b>	<b>204</b>	<b>47%</b>	<b>163</b>	<b>232</b>	<b>42%</b>

Notes:

*Fairfax Connector proposed trips include I-495 Tysons Express Routes*

*Prince William County trips include MetroDirect service to Franconia-Springfield*

# Transit Service Recommendations



# I-95 Transit and TDM Plan Recommendations

## Transportation Demand Management Program

# TDM Program Needs

## A. Vanpool Program Assistance

VanStart/VanSave, Vanpool Insurance, NTD Program

## B. Telework Program Assistance

## C. I-95 Corridor Marketing/Education

Annual Marketing Campaigns, HOT/HOV Start-up Campaigns

## D. TDM Program Staffing

## E. Technology Upgrades

## F. Supporting Programs

Guaranteed Ride Home, Incentive Programs

***Funding for Additional I-95 TDM Programs  
To Come From Unobligated TEIF Funds  
(Approximately \$100K - \$250K)***

*Note:*

*Some of the above-listed program needs would be region-wide, not necessarily targeted towards just I-95 commuters.*



# I-95 Transit and TDM Plan Recommendations

## Franconia-Springfield Metrorail Station

# Franconia-Springfield Station Parking Expansion Strategy

1. Create new off-site parking spaces
2. Off-site parking need to be determined
3. Assume 750 spaces in structure as a placeholder for now
4. Provide peak period shuttle service to/from station with two buses

Estimated Parking Structure Cost = **\$22.5 million**

Estimated Shuttle Operating Costs (2020-2035) = **\$8.3 million**  
(2011 dollars)

*Note:*

*Potential parking cost based on a unit cost of \$30,000/structured parking space*

*Potential shuttle operating cost based on \$120 per revenue bus-hour*

# I-95 Transit and TDM Plan Recommendations

## Summary of I-95 Corridor Plan Costs

# Summary of Costs by Plan Element

*(Funded and Additional for Six-Year Program)*

Plan Element	Plan Cost
<b>Capital Costs</b>	
Current Funded Park & Ride Spaces	\$22,800,000
Additional Park & Ride Spaces	\$98,875,000
Bus Fleet Expansion	\$19,370,000
<b>O&amp;M Costs (thru 2035)</b>	\$31,495,000
<b>TDM Program Costs (thru 2035)</b>	TBD
<b>Franconia Springfield Station</b>	
Off-Site Parking	\$22,500,000
Off-Site Parking Shuttle	\$8,265,000
<b>Total Costs</b>	<b>\$203,305,000</b>
<i>Previously Committed Funds:</i>	<i>\$22,800,000</i>
<i>Recommended for Six-Year Program</i>	<i><b>\$180,505,000</b></i>

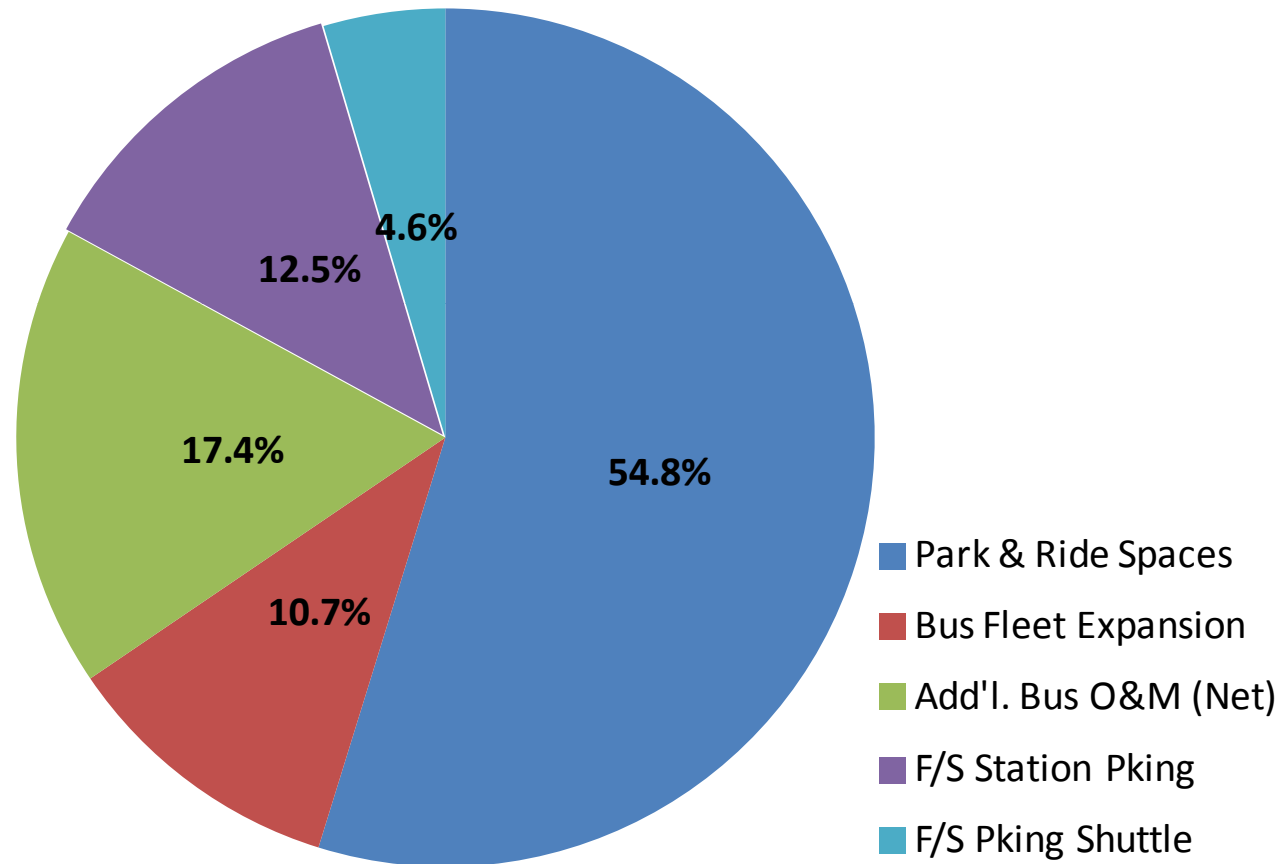
*Costs in 2011 dollars.*

# Summary of Costs for Six-Year Program Recommendations by Time Period

Plan Element	Time Period				TOTAL
	<u>2015-19</u>	<u>2020-24</u>	<u>2024-2029</u>	<u>2030-2035</u>	
<b><u>Total Corridor Service/Project Needs</u></b>					
Previously Funded P&R Spaces	\$22,800,000	\$0	\$0	\$0	\$22,800,000
Additional P&R Spaces	\$0	\$29,875,000	\$27,937,500	\$41,062,500	\$98,875,000
Bus Purchase Needs	\$3,076,000	\$8,182,000	\$5,312,000	\$2,800,000	\$19,370,000
Add'l. Bus O&M (Net)	\$2,875,000	\$7,310,000	\$9,835,000	\$11,475,000	\$31,495,000
TDM Programs	TBD	TBD	TBD	TBD	TBD
F-S Station Off-Site Parking	\$0	\$22,500,000	\$0	\$0	\$22,500,000
<u>F-S Station Parking/Shuttle</u>	<u>\$0</u>	<u>\$2,755,000</u>	<u>\$2,755,000</u>	<u>\$2,755,000</u>	<u>\$8,265,000</u>
<b>Total (Funded and Recommended)</b>	<b>\$28,751,000</b>	<b>\$70,622,000</b>	<b>\$45,839,500</b>	<b>\$58,092,500</b>	<b>\$203,305,000</b>
<b>Total for Six-Year Program:</b>	<b>\$5,951,000</b>	<b>\$70,622,000</b>	<b>\$45,839,500</b>	<b>\$58,092,500</b>	<b>\$180,505,000</b>

*Costs in 2011 dollars.*

# Costs for Six-Year Improvement Program Recommendations by Plan Element



**Costs Over 20-years = \$180.5 million**

*(Not including TDM Program Costs)*

# Next Steps:

- Mon., Sept. 26 – Public Meeting in Woodbridge
- Wed., Sept. 28 – Public Meeting in Springfield
- Thur., Sept. 29 – Public Meeting in Stafford
- 30 Day Public Comment Period
- Finalize I-95 Transit and TDM Plan

# Questions/Discussion