



Washington Metropolitan Area Transit Authority

Regional Transit System Plan Update

Transportation Planning Board – Regional Bus Subcommittee

April 24, 2012



Purpose

- Provide update on Regional Transit System Plan (RTSP) 2040 analysis
- Describe alignment of RTSP with Region Forward
- Provide information on public engagement process





RTSP Characteristics

- 30-year vision (2040)
- Multi-modal regional transit network
- Operator-neutral to create a seamless customer experience
- Infrastructure plan for projects that have long development horizons





Our Future Rides With Metro

- Achieving Region Forward's goals/targets requires improving and expanding transit
- Extending the system has a direct impact on core capacity.
- Assuming 10+ years to construct major core capacity projects, a preferred expansion strategy and secure funding needs to be identified in the next 5 years
- Partnering is needed to prioritize surface transit on roadways and create a multimodal regional transit system.

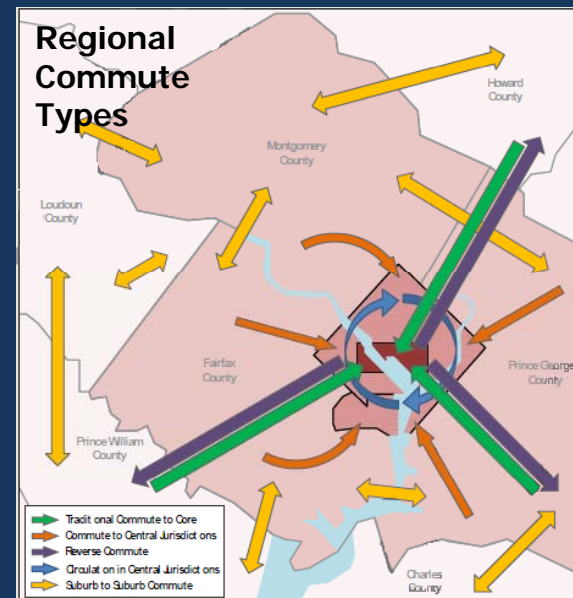




Transit and Regional Growth Trends

- 2010 to 2040 Regional Growth: 31% Population, 35% Household, 39% Employment
- Growth projected throughout region but especially in outer suburbs
- Other growth will be more dispersed or occur in emerging activity nodes

Markets	2008 to 2040	
	Growth in Weekday Home-Based Work Trips	Percent
Traditional Commute to Core	86,000	12%
Commute to Central Juris	153,000	41%
Reverse Commute	62,000	35%
Central Circulation	76,000	39%
Suburb-Suburb	1,236,000	45%



- Increased dispersion of travel patterns
- Moderate growth in commutes to Core
- Increased travel within Central jurisdictions
- Highest growth in travel to suburban destinations



RTSP Project Goals

Goal 1: Enhance environmental quality, improve energy efficiency, and protect human health and safety

Goal 2: Facilitate transit-oriented, mixed-use communities that capture employment and household growth, providing choices in where to live, work, and play

Goal 3: Maximize access to and availability of integrated and convenient transit choices

Goal 4: Provide a high-quality transit system that accommodates and encourages future ridership growth

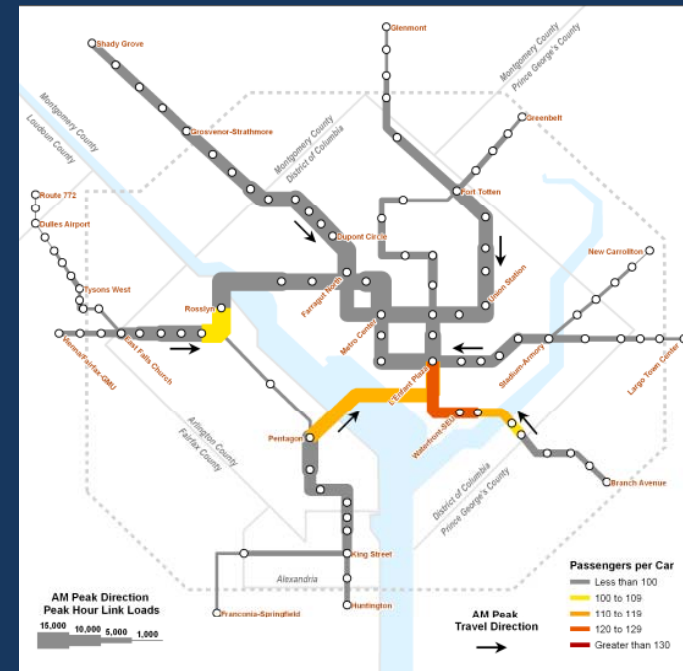
Goal 5: Provide a financially viable and sustainable transit system that is efficient and effective for the Region



Findings from 2040 Base Case Network

- Regional transit trips are expected to grow by over 30%
- Overcrowding will be most severe leading to Rosslyn and L'Enfant Plaza
- Demand will increase for:
 - Suburban rail station access
 - Circulation within central jurisdictions
 - Suburb-suburb travel

Base Case Peak Hour Passenger Loads



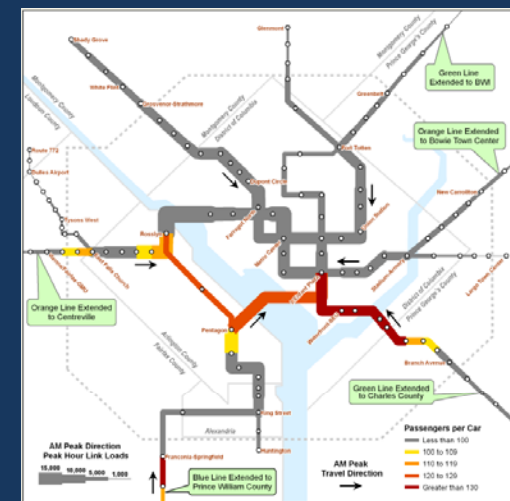
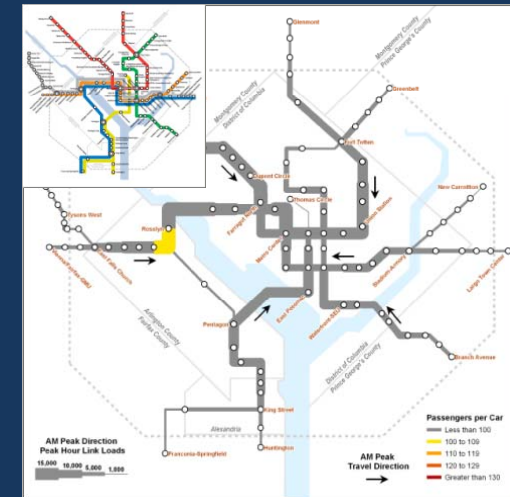


What Strategies Does the Region Need?

Core Capacity Strategies	Access Strategies	Surface Transit Strategies	New Connections Strategies
New rail lines through the core	In-fill stations & pedestrian connections	Enhanced bus priority corridors	Metrorail extensions to activity centers
Rail inter-lining (providing new connections between existing rail lines)	Improved pedestrian networks	Enhanced commuter rail and bus service	Commuter rail extensions
Enhanced bus priority corridors	Park and ride lots with shuttles to rail	Enhanced BRT network	BRT/LRT/Streetcar extensions

Findings from Rail Strategies

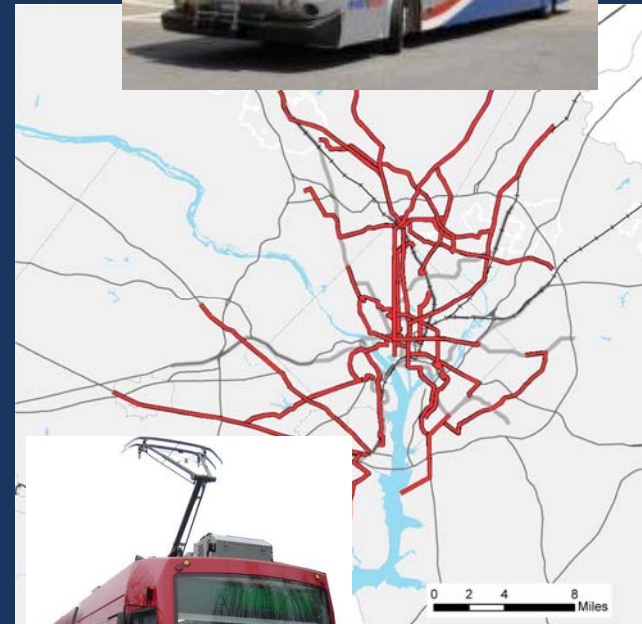
- No single strategy addresses all core capacity issues
- New lines reduce transfers at key stations
- Interlining increases service flexibility and redundancy, but is mixed in terms of core capacity issues
- Extensions further strain Metrorail core capacity
- Extensions relieve park and ride capacity issues at existing end of line stations





Findings from Surface Transit Strategies

- Enhanced priority corridors:
 - Modest improvement in transit mode share by improving access to RACs
 - Modest reduction in peak rail loads, river crossings still have high volumes
- Streetcar network:
 - Modest core relief
 - Integration across boundaries necessary
- LRT expansion:
 - Relieves congestion on Green Line
 - Increased congestion on Yellow Line
 - Creates portion of circumferential line





Surface Transit Strategies Connect Complete Communities

High quality surface transit strategies improve coverage and access to regional activity centers resulting in improved transit share and access to jobs

Regional Activity Centers

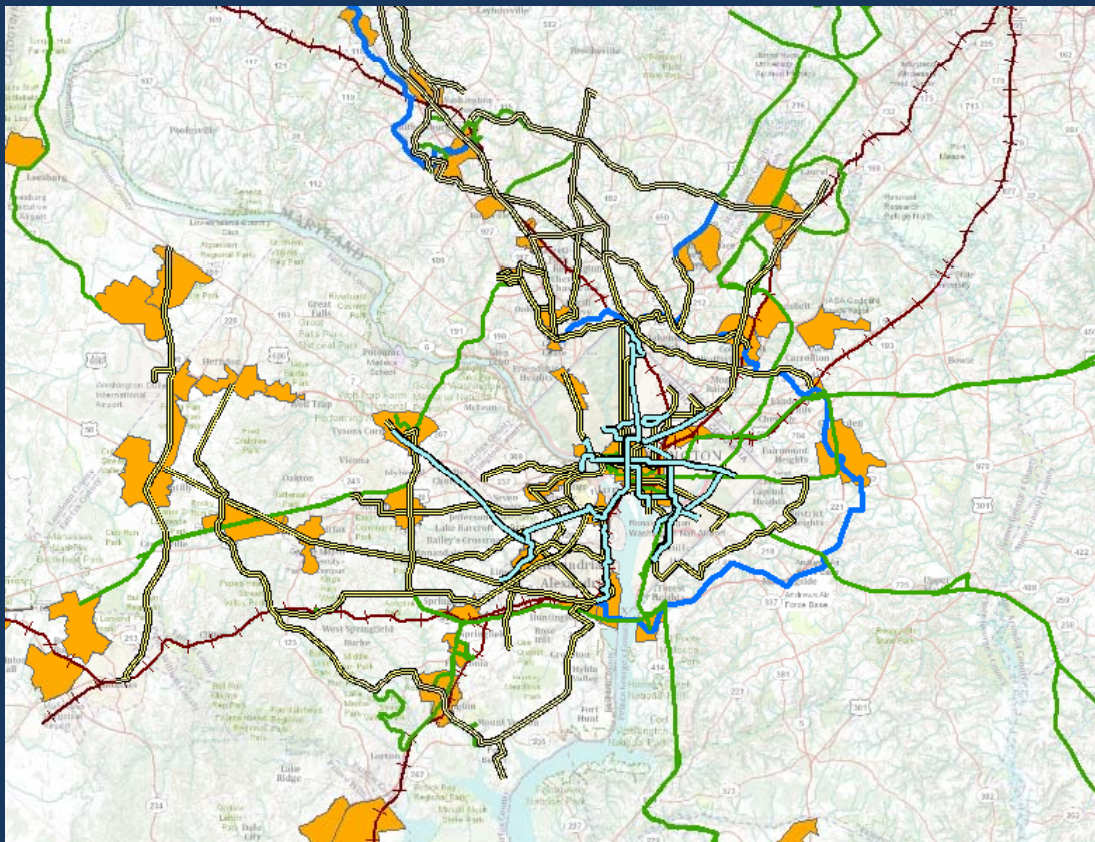
Commuter Rail

Enhanced Priority Corridors

Enhanced Commuter Bus Network

Streetcar Network

Extended Light Rail Network





Initial Scenarios Under Analysis

- Scenario 1: Maximize Existing Infrastructure
 - What are the results of moderate changes to the existing system?
- Scenario 2: Expand Surface Transit
 - What are the results from a substantial increase in connected surface transit?
- Scenario 3: Expand Transit Core Capacity
 - What is the scale of improvement needed to resolve core capacity issues?
- Scenario 4: Expand Transit Systemwide
 - How much can we change mode share and vehicle miles traveled/capita with a substantial increase of heavy rail?





Stakeholder and Public Outreach

- Meet with Technical Advisory Group (TAG)
- Blog posts on PlanItMetro.com
- Proposed public engagement
 - Hold public workshops (June/July and Fall 2012)
 - Online crowd sourcing tool (May – November)
 - Identify other methods with CIVR and CSCM to reach a larger ridership base





Remaining RTSP Next Steps

Model/Analyze
Round 1 Scenarios

Modify Scenarios

Model and Analyze
Scenarios

Develop Findings

Develop 2040 Regional
Transit System Plan

Ongoing Technical Analyses & Feedback from Study Technical Advisory Group

Public Workshops (2 sets) and Online Crowd Sourcing