

FAIRFAX COUNTY COUNTYWIDE TRANSIT NETWORK STUDY

e Park & Ride

Proposed High Quality Transit Network



January 19, 2016
Transportation Advisory
Committee



Arpita Chatterjee
Fairfax County Department of Transportation



Presentation Context

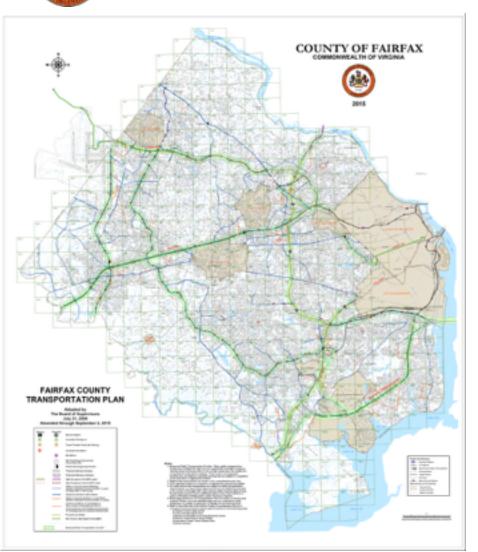


This presentation summarizes the draft recommendations for Fairfax County's proposed High Quality Transit Network (HQTN).

The study team is currently conducting analyses to reflect the most recently adopted (October 2015) Constrained Long Range Plan and plans to present the proposed HQTN to the public in early 2016.



Study Purpose



Establish the most effective way to serve the County's future growth by improving public transit usage.

Replace the Enhanced Public Transportation Corridors (EPTC) in the Comp Plan with High Quality Transit Network (HQTN) and further define modes, right-of-way needs, and station locations.



County of Fairfax, Virginia

Study Process









We are at the final stage of public involvement and review:

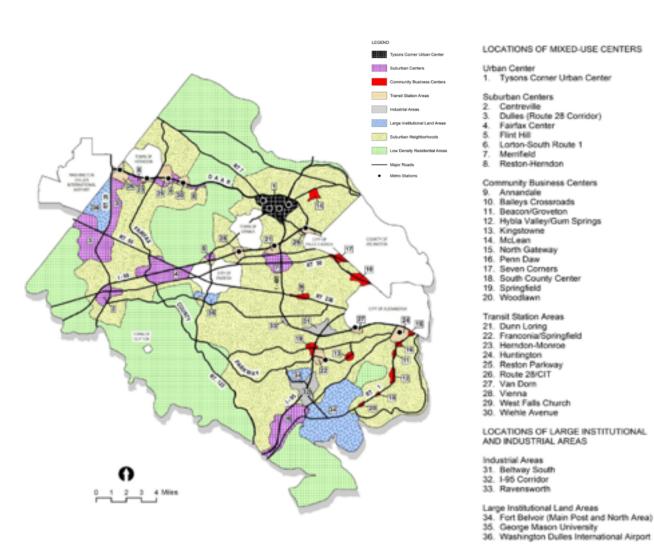
- Goals/objectives (July 2012)
- Corridor functions (November 2012)
- Proposed High Quality Transit Network Concept (July 2013)
- Final concept (early 2016)

Our remaining steps are to:

- Reflect current CLRP as baseline
- Complete stakeholder engagement
- Develop additional details on alignments, stations, and costs
- Finalize recommendations



Land Use Concept



The proposed **HQTN** supports the County's Concept for **Future** Development by focusing on service to and from activity centers both within the County and region-wide.



County of Fairfax, Virginia

High Quality Transit









Defining elements of the HQTN include providing improved travel speeds and reliable travel times, typically on exclusive right-of-way.

Commuter rail, Metrorail, LRT, and BRT are all examples of High Quality Transit modes.



Transit Corridor Function

The type of premium transit service appropriate for each corridor will reflect the traveler needs and land use context in that corridor.



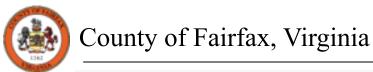
Destination corridors, like the Crystal City Potomac Yards Transitway, connect neighborhoods to multiple activity centers, functioning primarily to provide access.



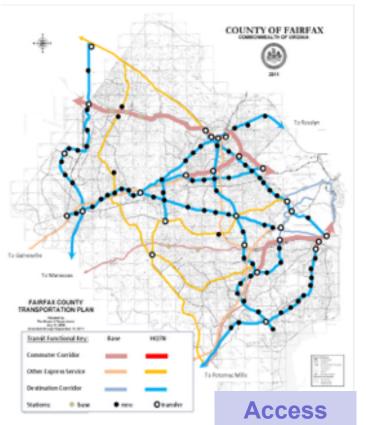
Source: Center for Transit Oriented Development

Commuter corridors, like the Virginia Railway Express, primarily serve one major activity center and tend to focus on journey-to-work trips and function primarily to provide *mobility*.





Functional Concepts





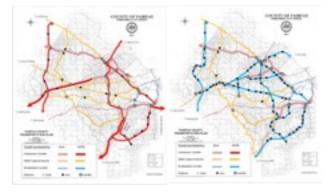
The November 2012 public meeting presented different functional concepts for a High Quality Transit Network. The **access** focus attracted more total transit riders, whereas the **mobility** focus provided better access to regional jobs. Both had a similar benefit in reducing vehicle travel.

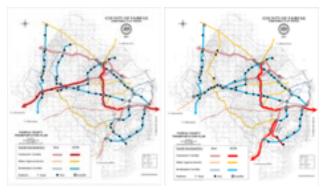


Alternative Concepts

The public values multiple objectives:

- Increase access to destinations
- Include both high demand commuter and destination corridors
- Reduce roadway congestion
- Increase transit ridership
- Take cars off the road
- Encourage TOD
- Support Countywide vision for managed growth
- Be affordable
- Be understandable/usable
- Be connected





Four concepts were reviewed with the public in November 2012. The proposed HQTN concept utilizes the best ideas from each for a context-sensitive fit to individual corridor needs.



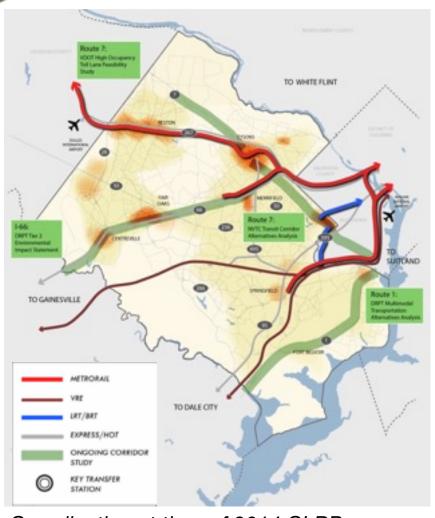


County of Fairfax, Virginia

Study Coordination

Extensive coordination with <u>current studies</u> in past two years:

- Transform 66
- Richmond Highway
- Envision Route 7
- Alexandria Transitway planning
- Route 7 west of Tysons



Coordination at time of 2014 CLRP



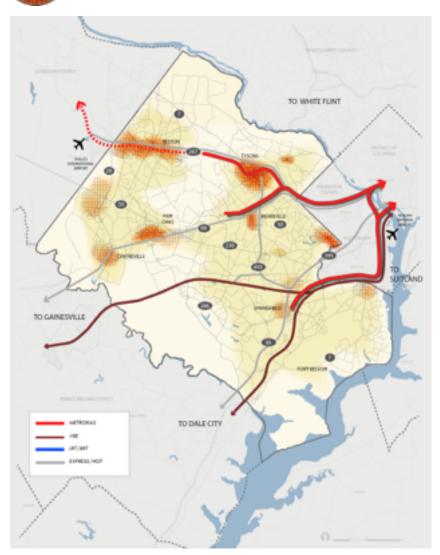
Proposed HQTN



The proposed HQTN builds upon the existing and CLRP transit investments to create an interconnected network of commuter and destination corridors, supported by connecting express bus routes.

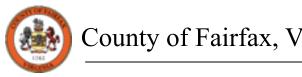


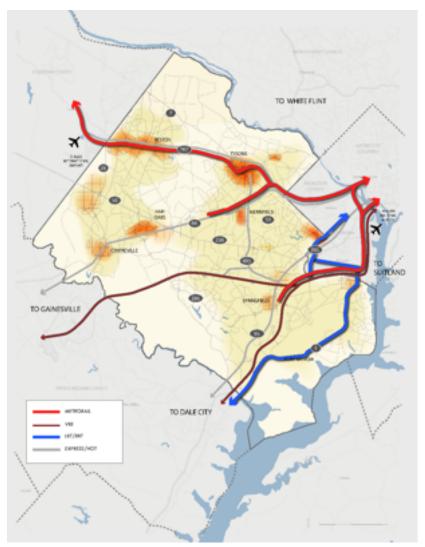
Proposed HQTN Elements



Existing HQTN elements serving Fairfax County include Metrorail and VRE with supportive express bus services on high-occupancy vehicle (HOV) or high-occupancy/toll (HOT) lanes.



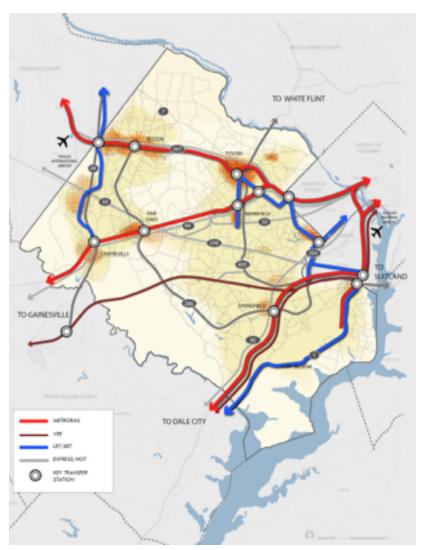




2015 Constrained Long Range Plan transit connections provide the starting point for the proposed HQTN:

- Silver Line extension (Metrorail)
- Richmond Highway (BRT)
- Alexandria's West End and Duke Street transitways (BRT)

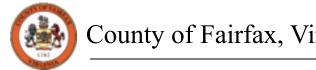


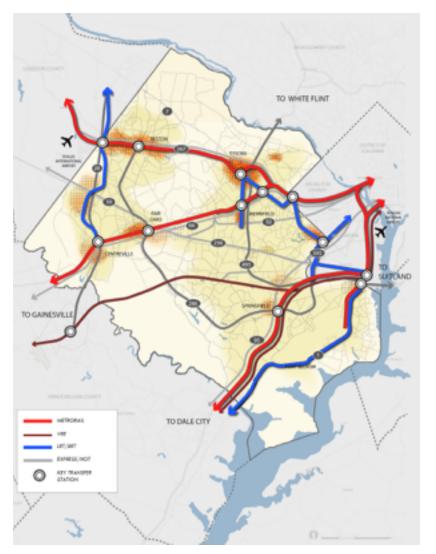


Metrorail Extensions provide capacity to both connect Fairfax County with other jurisdictions for longerdistance trips as region expands over time and to serve the County's activity centers:

- Metrorail Orange Line
- Metrorail Blue Line
- Metrorail Yellow Line







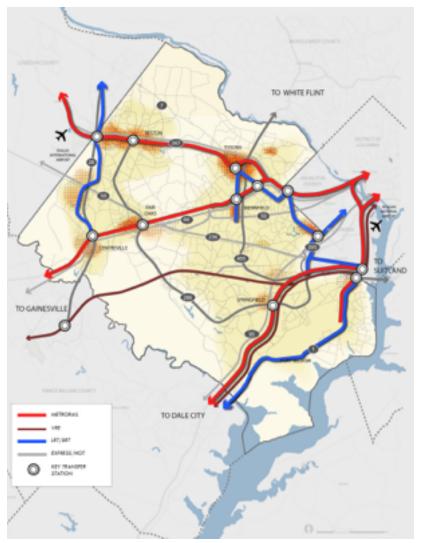
Light Rail Transit (LRT) / Bus Rapid Transit (BRT) provide service to support access to and within transit-oriented development along linear corridors:

- Route 28 Corridor LRT/BRT
- Route 7 LRT/BRT
- Gallows Road LRT/BRT

The choice of LRT or BRT will be finalized during alternatives analysis.







Express Bus services connect activity centers as well as other transit services, including Transit Centers and Park & Rides, and provide greater routing flexibility:

Radial	Circumferential
Route 236	Beltway Express Fairfax County Parkway Route 28

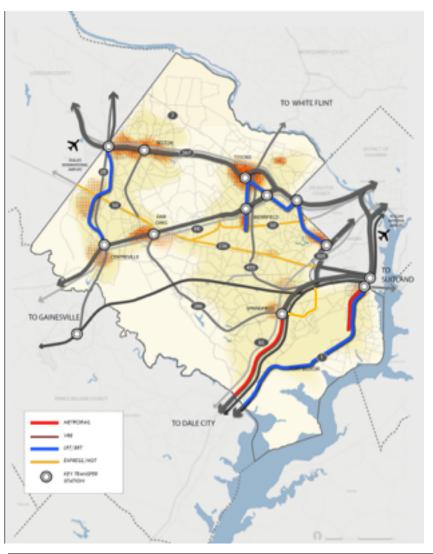
Bus lanes may also include HOV/HOT.

Express bus to be > 50% on exclusive right-of-way inclusive of HOV/HOT lanes.





County of Fairfax, Virginia Transportation Plan Changes

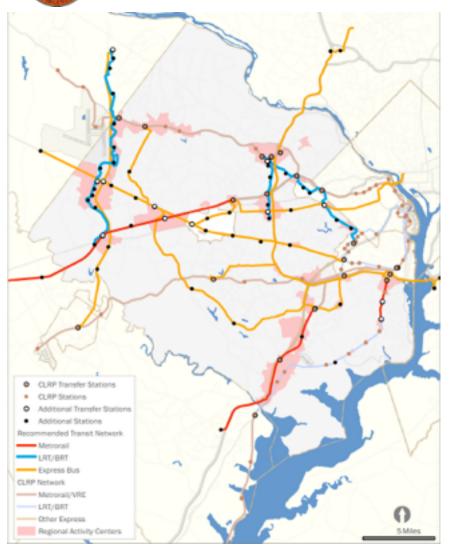


The proposed HQTN would result in changes to the Transportation Plan Map, including mode and alignment details in the following corridors:

- Blue Line Extension
- Yellow Line Extension
- Gallows Road: BRT/LRT
- Richmond Highway: BRT/ Metrorail Extension
- Route 7: BRT/LRT
- Route Corridor 28: BRT/LRT



Proposed HQTN



Recommends the following in addition to the current CLRP in Fairfax County:

- Metrorail: 34 miles & 10 Stations
- LRT/BRT: 33 miles & 27 Stations
- Supported by:
 - Express Bus: 113 miles & 25 stations



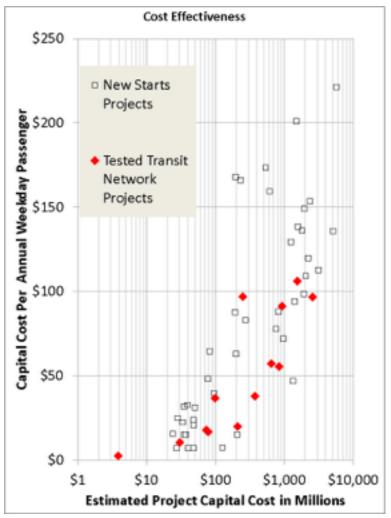
Measures of Effectiveness

Goal	Achievement (compared to 2050 CLRP conditions)
CONNECT Provide more transportation choices for Fairfax County and regional connectivity	Allows average County resident to reach 190,000 more jobs within a 45 minute transit commute
	Increases Fairfax County transit trips by 150,000 per day, a 35% increase over base conditions.
	Introduces rail service to 14 previously unserved activity centers
	Estimated Cost per passenger consistent with recent New Starts approvals
GROW	Serves 27 new station areas within designated activity centers.
Support local and regional economic development goals	Brings 120,000 new County households and 263,000 County jobs within $\frac{1}{2}$ mile of high quality transit station
THRIVE Strengthen quality of life by making transit-friendly, sustainable investments	Serves 28 new station areas with higher than average transit dependent populations
	Reduces weekday peak period Vehicle Hours of Travel by 68,000 and Vehicle Miles of Travel by 147,000
	Furthers Comprehensive Plan concepts for Enhanced Public Transportation Corridors With 2015 CLPP base





County of Fairfax, Virginia Measures of Effectiveness (cont.)



Pending refinement with 2015 CLRP base

- Capital cost per annual weekday passenger is a measure of cost effectiveness.
- **Tested Transit Network** projects compare favorably to New Starts approved projects.



Supporting Policies

Supporting policies for the CTNS include:

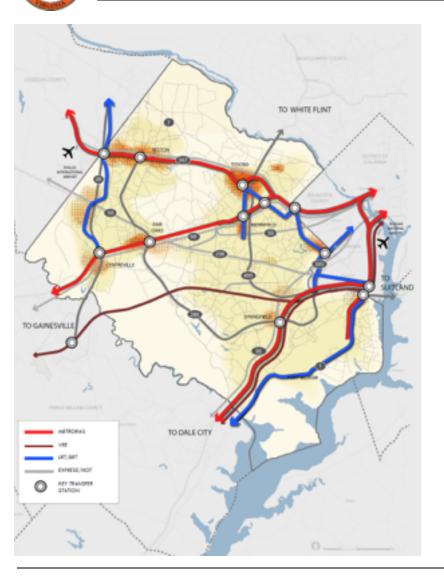
- Concentrated growth in Activity Centers
- Quality TOD
- Feeder Bus Services
- Park & Rides
- Transit Centers
- Circulator Systems





County of Fairfax, Virginia

Next Steps



- Complete documentation (early 2016)
- Publish Draft Final Report (early 2016)
- Obtain additional public comments (early 2016)
- Present Final Report to Board for endorsement (mid-2016)
- Initiate process to incorporate study recommendations in Comprehensive Plan (mid-2016)











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Arpita Chatterjee

Arpita.Chatterjee@fairfaxcounty.gov

Thomas Burke

Thomas.Burke@fairfaxcounty.gov

http://www.fairfaxcounty.gov/fcdot/2050transitstudy/

