

ESTIMATED COSTS OF TYSONS TRANSPORTATION INFRASTRUCTURE

Planning Commission
Tysons Committee
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ESTIMATED COSTS OF TYSONS TRANSPORTATION INFRASTRUCTURE

- Costs are "Order of Magnitude" estimates at "planning level"
- Projects have not been fully scoped or "engineered"
- Estimates Include Transit, Grid of Streets (Multimodal Complete Streets), and Other Roadways



ESTIMATED COSTS OF TYSONS TRANSPORTATION INFRASTRUCTURE

- Two Time Periods
 - 2010 to 2030 Page 1
 - 2030 to 2050 Page 2



ESTIMATED COSTS OF TYSONS TRANSPORTATION INFRASTRUCTURE

- Estimates Include:
 - Current Comprehensive Plan Transit and Roadway Improvements
 - Grid of Streets (2010 to 2030 and Beyond 2030)
 - Additional Transit and Roadway Projects (More Than in Current Comprehensive Plan)



Transit Projects included in current Comprehensive Plan

- Dulles Rail
 - o Capital cost \$x.x billion
 - o Aggregated operating cost \$xx million
- Comprehensive Plan Bus Service (Above Today's Levels)
 - o Tysons-related bus service
 - o Aggregated 20 year operating cost



Grid of Streets

- Necessary for transforming Tysons
- Treated as separate category
 - o Not roadway or transit
 - o Not in current Comprehensive Plan – but should have been
- Built out over time (assumed 60% by 2030; 40% after 2030)
- Estimates include construction, design, and right-of-way
 - o Right-of-way is majority of the cost



Roadway Projects included in the Comprehensive Plan



Additional Projects

- To accommodate GMU 2030 forecast
- Above current Comprehensive Plan
 - o Transit ()
 - o Roadway
 - Dulles Toll Road Ramps
 - Dulles Toll Road Collector-Distributor
 - Capital Beltway Additional Lane



Countywide Transit Projects

- Transit Mode Share in Tysons Needs to Increase to Accommodate Forecast Growth
- Transit connections & services throughout the County and region must be improved to achieve higher transit usage
- Some of these transit services should be considered Countywide/regional - Not Just for Tysons



ESTIMATED COSTS OF TYSONS TRANSPORTATION INFRASTRUCTURE

- 2030 to 2050
 - Transit Operating Costs carried forward
 - Grid of Streets - assume 40% remains to be built
 - Additional Transit
 - o Streetcar based circulator
 - o More Local/Neighborhood bus service



ESTIMATED COSTS OF TYSONS TRANSPORTATION INFRASTRUCTURE

- 2030 to 2050 (cont.)
 - Both High and Lower Cost Transit Improvements Needed to Achieve Target Transit Mode Share (Beyond 2030 Analysis)
 - Countywide/Regional Transit
 - o More Express & Local Bus Service
 - o More Commuter Parking
 - o Additional Rail/High Quality Transit Corridors (I-66 and Other Corridor)



ESTIMATED COSTS OF TYSONS TRANSPORTATION INFRASTRUCTURE

- Some Things to Remember
 - "Order of Magnitude" Estimates
 - Mostly in 2009 dollars (exception Dulles Rail)
 - Transit services will be implemented incrementally; operating costs assumed for entire 20 year period (exception Dulles Rail)



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- Some Things to Remember (cont)
 - Capital Costs for bus service limited to initial purchase of buses
 - Estimates based on variety of assumptions
 - Other improvements may be added (e.g. missing sidewalk links on other roadways, bus shelters, etc.);



SUMMARY TABLE

Order of Magnitude Planning Level Cost Estimate
Summary for Transportation Projects Serving Tysons 2010-2030
(2009 Dollars; Except Dulles Rail costs which are in actual year of expenditure)

Transit Project Capital & Operating Costs	\$6,028,000,000
Grid Project Capital Costs	\$742,000,000
Roadway Project Capital Costs	\$742,000,000
Total Cost Estimates for Transportation Projects Serving Tysons 2010-2030 (Excluding Countywide Transit Projects)	\$7,510,000,000
Countywide Transit Project Capital & Operating Costs	\$199,000,000

*Costs shown in this chart are for planning purposes only. Actual project costs can vary greatly depending on multiple factors beyond the scope of this exercise. Roadway maintenance and operational costs have not been included since this is the primary responsibility of the state and is taken "off the top" of state allocations.



SUMMARY TABLE

Order of Magnitude Planning Level Cost Estimate
Summary for Transportation Projects Serving Tysons 2030-2050
(2009 Dollars; Except Dulles Rail costs which are in actual year of expenditure)

Transit Project Capital and Operating Costs	\$1,522,000,000
Grid Project Capital Costs	\$493,000,000
Roadway Project Capital Costs	\$0
Total Cost Estimates for Transportation Projects Serving Tysons 2030-2050 (Excluding Countywide Transit Projects)	\$2,015,000,000
Countywide Transit Project Capital & Operating Costs	\$5,112,000,000

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- Questions?

