Item #6

IDENTIFYING "TRANSIT-SIGNIFICANT HIGHWAY NETWORK" FOR GENERAL TRAFFIC ANALYSIS

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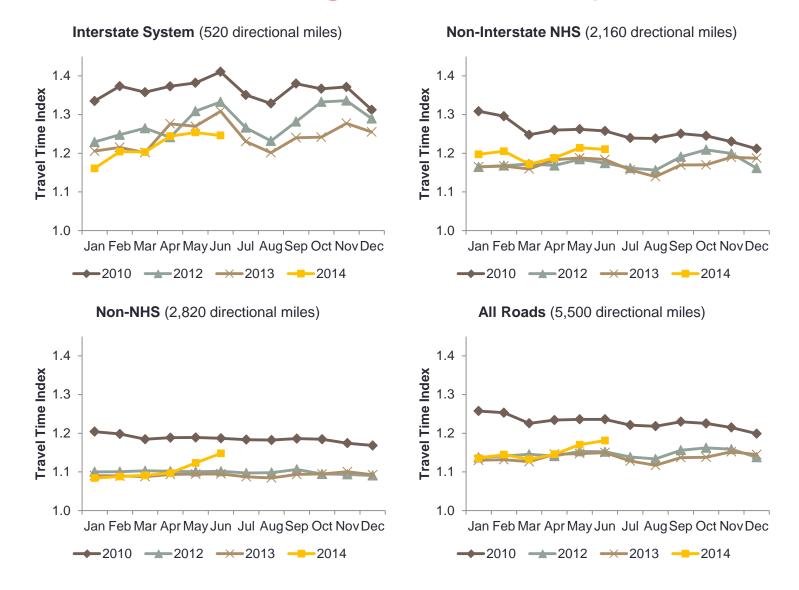
Regional Public Transportation Subcommittee

September 23, 2014

Background

- In recent <u>Congestion Management Process (CMP)</u> <u>Technical Report</u> and the <u>Congestion Dashboard</u>, Congestion and travel time reliability are reported for three categories of highways respectively:
 - Interstate system
 - Non-Interstate NHS
 - Non-NHS
- Comment received: report performance for transitsignificant highway network
- First action: identify and agree upon "transit-significant highway network"

Example of congestion analysis



Proposed Process

- Staff propose straw-man transit-significant highway network
- Regional Public Transportation Subcommittee reviews and reaches consensus
- Other necessary committee/public reviews, if any
- Finalization of the network
- Match vehicle probe data geocoding
- Calculate and report congestion and reliability performance measures for the network

Note: the identified transit-significant highway network intends to be used for general traffic congestion and travel time reliability analysis only.

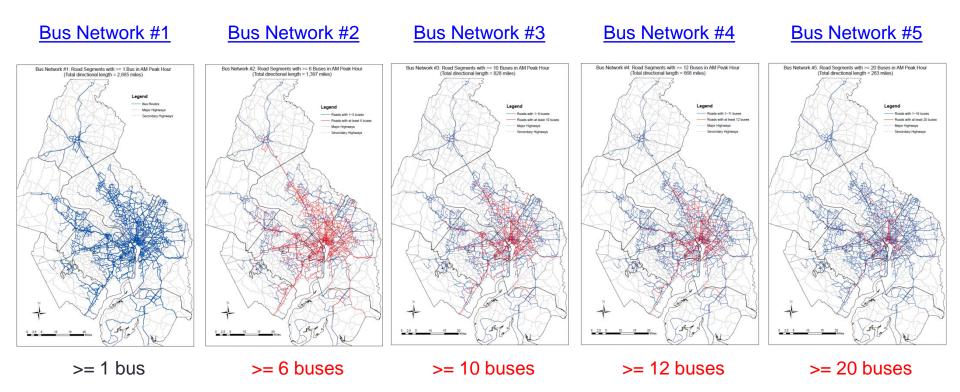
Bus Network in the TPB

Number	Definition	Total Directional Length (miles)
Bus Network #1	Road segments with at least 1 bus in AM peak hour	2,665
Bus Network #2	Road segments with at least 6 buses in AM peak hour (one bus in every 10 minutes)	1,397
Bus Network #3	Road segments with at least 10 buses in AM peak hour	828
Bus Network #4	Road segments with at least 12 buses in AM peak hour (one bus in every 5 minutes)	668
Bus Network #5	Road segments with at least 20 buses in AM peak hour	283

Note: INRIX covers about 5,500 directional miles of roads in the TPB Planning Area.

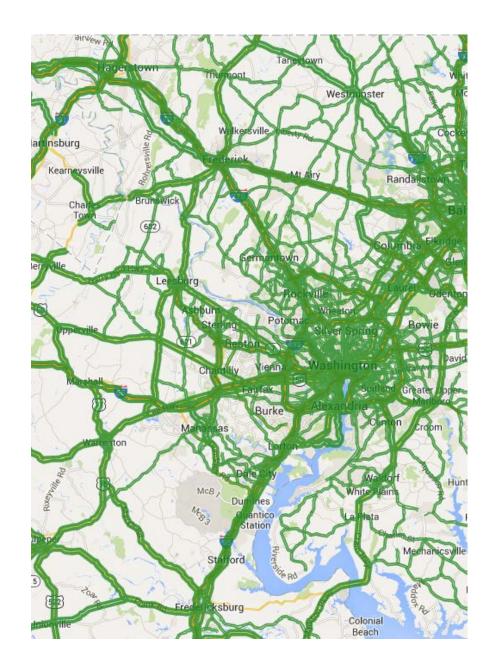
Maps of bus networks

(Click on "Bus Network #" to show 17x11" maps)



INRIX data coverage

- Total 5,500 directional miles in TPB, including:
 - Interstate system, 520 miles
 - Non-Interstate NHS, 2,160 miles
 - Non-NHS, 2,820 miles
- Data quality caution:
 - Low-volume roads
 - HOV/HOT lanes



Discussions

- Q/A
- Choose one of the five bus networks, or another, as the transit-significant highway network. Consensus?
- Next steps

Staff Contact

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