# 2013 CENTRAL EMPLOYMENT CORE CORDON COUNT OF VEHICULAR AND PASSENGER VOLUMES

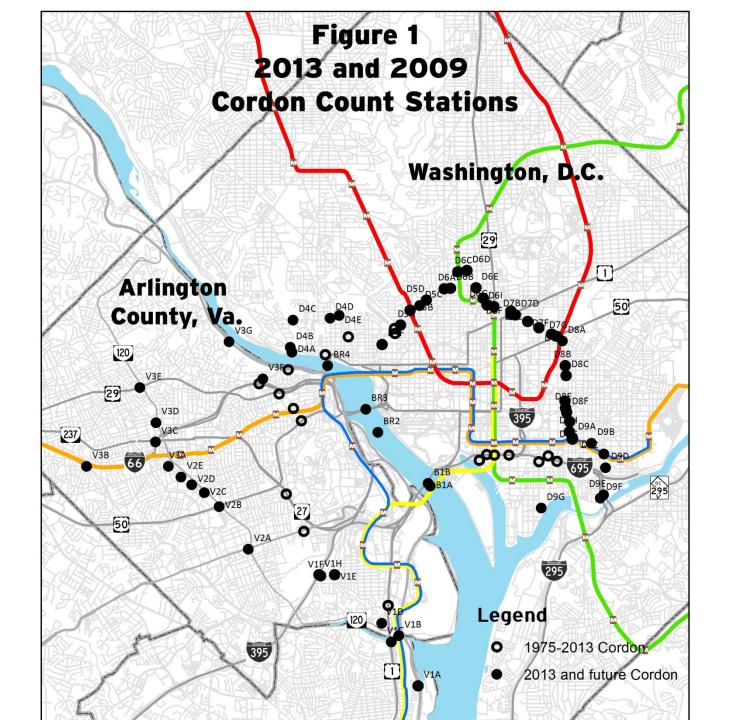
C. Patrick Zilliacus
Travel Forecasting Subcommittee
Item #6
January 24, 2014

#### When

- March through June 2013
- Tuesdays, Wednesdays and Thursdays only
- Holidays avoided
- 5:00 A.M. to 10:00 A.M. inbound only

### Where

- Two cordon lines
- Traditional cordon line from 1970s through 2013 (originally established as the max load points on transit system after 1968 bus survey)
- Revised cordon line, first count 2013
- Cordon expanded to include "new" employment that has and will happen between 1975 and 2020



### What

- All wheeled traffic at each station
- Including bike traffic
- Transit buses were checked individually
- Mostly by COG/TPB, but WMATA conducted the counts at the Pentagon Bus Station
- Metrorail by WMATA
- MARC, VRE, MTA, PRTC and Loudoun Co. by the respective agencies
- This project does not count pedestrians



### Results (6:30 to 9:30) 2009 to 2013

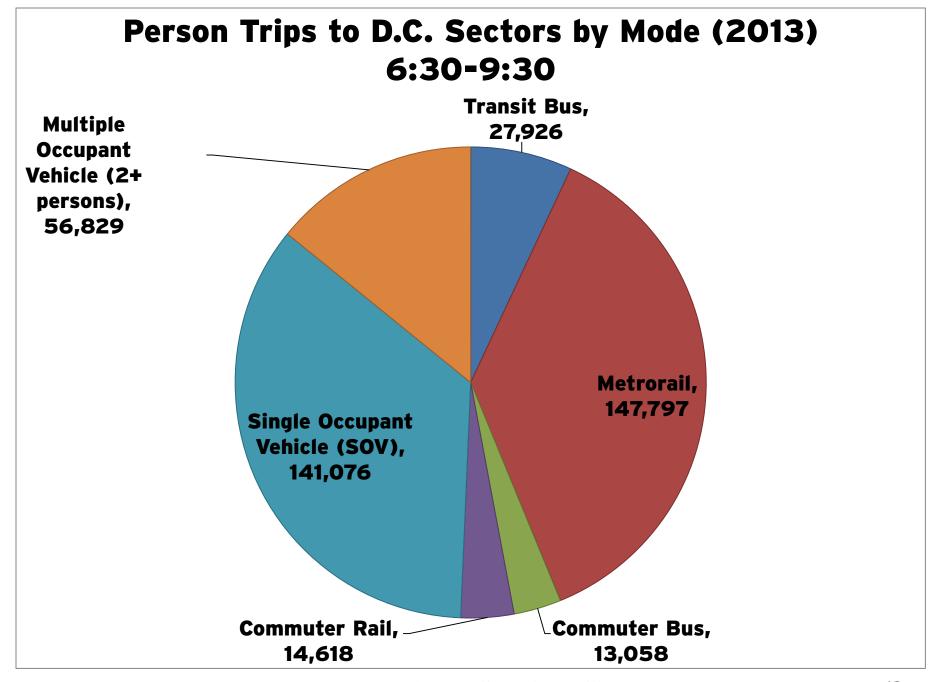
- Person trips decreased by about 17,000
- Transit little change in Metro patronage overall, not much change in absolute terms transit modal share up from 45% to 47%
- Trips by car-pooling down by over 16,000 trips, modal share down from 19% to 16%
- SOV modal share unchanged at about 37%
- About 11,000 fewer trips crossing the revised cordon – due largely to less patronage on Orange Line at revised count station

### Results (5:00 to 10:00) 2009 to 2013

- Person trips also decreased by about 17,000
- Transit not much change in absolute terms modal share up from 43% to 45%
- Trips by car-pooling down by over 19,500 trips, modal share down from 18% to 15%
- SOV modal share up from slightly from 39% to 40%
- Also about 11,000 fewer trips crossing the revised cordon

## Modal Shares to D.C. part of cordon only (6:30 to 9:30)

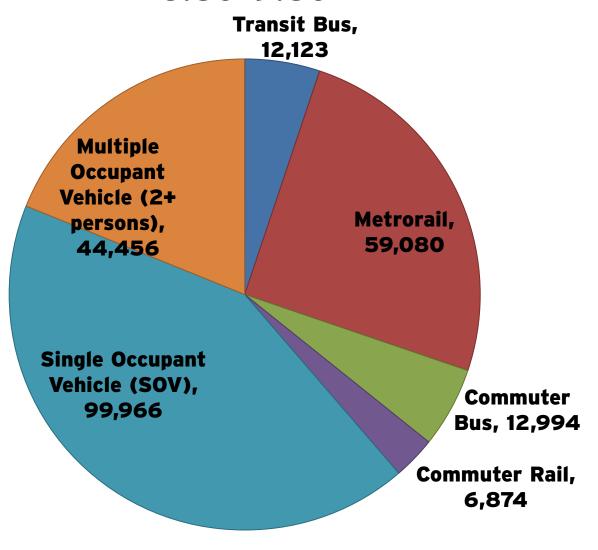
- D.C. Stations plus bridge crossings from Virginia
- Transit bus 7% (Metrobus, Circulator); up from 5% in 2006
- Metrorail 37%; 38% in 2006
- Commuter Bus 3%; 2% in 2006
- Commuter Rail 4%; 2% in 2006
- SOVs 35%; 40% in 2006
- Car-pooling 14%; 13% in 2006



## Modal Shares to Arlington part of cordon only (6:30 to 9:30)

- Virginia stations plus bridge crossings from D.C.
- Transit bus 5% (Metrobus, ART, DASH, Fairfax Connector); up from 3% in 2006
- Metrorail 25%; 26% in 2006
- Commuter Bus 6%; 2% in 2006
- Commuter Rail 3%; 3% in 2006
- SOVs 42%; 46% in 2006
- Car-pooling 19%; 21% in 2006

### Person Trips to Va. Sectors by Mode (2013) 6:30-9:30



### **Traffic Volumes**

- 6:30 9:30: Down slightly for full cordon from 212,000 to 203,000
- 5:00 10:00: Down slightly from 285,500 to 278,500
- Bikes big increase in percentage terms but even with that increase, we only counted about 5,000 (2%) of them for the full five hour period

### Estimated error associated with Cordon Counts

- Old cordon line, 6:30 to 9:30, there is a 95% chance that total observed traffic falls +/-8,841 of 203,288
- Old cordon line, 5:00 to 10:00, 95% chance that traffic falls +/- 12,667 of 278,429
- New cordon line, 6:30 to 9:30, 95% chance that traffic falls +/- 5,458 of 206,721
- New cordon line, 5:00 to 10:00, 95% chance that traffic falls +/- 8,003 of 283,471
- New cordon line more stations and renumbered stations means lower estimated error

### **Questions?** Comments?

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- Comments within 30 days, please