

FY 2010 Network Development Program for TPB Travel Forecasting

Presentation
to the
Travel Forecasting Subcommittee
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Overview: Network Development Program

Supports:

- Transportation Modeling Activities**
- Air Quality Conformity Determination**

Work Tasks:

- Version 2.2 Model Network Development**
- Version 2.3 Model Network Development**

Report Overview

This report presents the following:

- 1. Overview of network development program.**
- 2. Project Elements in the 2010 CLRP**
- 3. Network inputs to the Version 2.2 travel model**
- 4. Version 2.3 Model Network Development on the new 3722 TAZ system**

Significant Updates to the 2009 CLRP

- **Additions**

1. Construction of the Purple Line Light Rail from New Carrollton to Bethesda.
2. “Return to L’Enfant” Project, a proposed development in the air rights over I-395 between E St. and Massachusetts Ave. NW.
3. Modification to the K St., NW to accommodate current plans for the K St. Transitway.

- **Changes**

- K Street Busway, 2010 to 2017
- I-95/I-495 Interchange at Greenbelt Metro, 2010 to 2015
- I-270/US 15 Corridor, construct from Shady Grove Metro to I-70, 2020 to 2030
- I-95/I-495 Branch Avenue Metro Access, construct eight lanes, 2009 to 2020
- I-66 HOV, widen to six lanes from US 15 to US 29, 2015 to 2020

Version 2.2 Model Network Development

- Files that support highway and transit network building and fare development
- Model's network building process described
- Detailed format descriptions of each file
- Lists of network files and their input types, filenames, and descriptions

Version 2.3 Model Network Development

1. 3722-TAZ Area System
2. Node Numbering System
3. Area Type Development
4. Status of GIS-Based Network Management and Editing Capability
5. Highway Network Inputs
6. Transit Network Inputs
7. Screenline Layer Development

Next Steps

- Extensive testing, evaluation, and certification of the ArcGIS-based process.
- Phase the ArcGIS-based COGTools application tool and TPBMAN geodatabase into production for use in carrying out the FY-2011 network development work program.
- Develop year 2040 highway and transit networks and files for use in Version 2.3 calibration.
- Populate 2009 CLRP-based TPBMAN with 2010 CLRP highway projects.
- Review TPBMAN generated forecast year highway networks.
- Solicit and compile year 2010 bus and rail service data for all regional transit providers in the Metropolitan Washington region.
- Incorporate year 2010 transit service levels into TPBMAN-based transit tables.
- Review TPBMAN generated forecast year transit networks.
- The products of the previously described task will inform networks for use in the 2011 CLRP and FY2012-2017 TIP.