



FY 2017 Short Term Model Improvements Task Order

Status Update

presented to Travel Forecasting Subcommittee presented by Cambridge Systematics, Inc. Jay Evans and Feng Liu

November 18, 2016

Task Order 17.2 Short-Term Model Improvements

Non-Motorized Model Enhancements

- Mode Choice Model Enhancements
- Managed Lanes Components



Task Order 17.2: Non-Motorized Model Work Plan

Key Program Elements

- » Model estimation data assembly/preparation
- » Model specification & estimation
 - Binomial logit model
 - Refined measurement of independent variables
- » Implementation & validation



Task Order 17.2: Non-Motorized Model Work Plan

Key Dates

- » Dec 1 Data delivered to consultant
- » Jan 15 Data processing complete
- » Mar 1 Model estimation complete
- » Apr 1 Model implemented in Cube



Task Order 17.2 Mode Choice Model Work Plan

Key Program Elements

- » Model estimation data assembly
- » Update transit skimming/assignment procedures
- » Model specification & estimation
 - Simpler and shallow structure
 - Traditional and non-traditional transit attributes
- » Model calibration/validation



Task Order 17.2 Mode Choice Model Work Plan

Key Program Dates

- » Dec 1 Data delivered to consultant
- » Feb 1 Data processing & skimming complete
- » Mar 1 Model estimation complete



Task Order 17.2 Managed Lanes Work Plan

Key Program Elements

- » Trip segmentation by value of time (VOT) segment (three categories)
- » Update highway skimming/assignment procedures
- » Revise volume delay functions
- » Highway assignment validation



Task Order 17.2 Managed Lanes Work Plan

Key Program Dates

- » Dec 10 VOT segmentation procedures complete
- » Feb 18 Highway skimming/assignment procedures complete



Task Order 17.2 Next Steps

- Receive the requested input data that TPB staff has been working to assemble
- Begin work on the utility function development for nonmotorized model and mode choice model
- Define VOT segments and begin implementation of trip table segmentation for managed lanes
- Continue close coordination with TPB staff on progress against program milestones



Questions?

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Acknowledgments: Jason Lemp and Thomas Rossi

