

Status report on the COG/TPB travel demand modeling consultant-assistance work program: **Introductory remarks**

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Background

- Consultant-assistance project for model development is now in its tenth year
- Purpose
 - Assist COG/TPB staff in development and application of COG/TPB travel demand model
 - Perform scans of current modeling practice
 - Help ensure that COG/TPB travel model is consistent with or exceeds the state of the practice in the U.S.



FY 15 task orders for consultant assistance project

	Description	Date Authorized	Amount
15.1	Attend relevant meetings and respond to ad-hoc requests	7/17/14	\$35,000
15.2	Develop a strategic plan for models development	1/9/15	\$88,000
15.3	Review of transit modeling w.r.t. FTA guidance	10/22/14	\$28,000
15.4	Modeling with Public Transport	2/26/15	\$49,000
	Total funds authorized (out of \$200k)		\$200,000



Today's presentations by Cambridge Systematics

- Task Order 15.2: Develop a strategic plan for models development (discussed on next slides)
- Task Order 15.3: Review of transit modeling with respect to FTA guidance



Strategic plan (Task Order 15.2)

- Develop a multi-year strategic plan for the development of the COG/TPB regional travel demand forecasting process
- Goal: To ensure that the TPB travel demand modeling process is, at least, state of the practice, and, possibly, state of the art, when compared with peer MPOs
- Deliverables: 3 reports (see next slide)



Strategic plan (Task Order 15.2)

□ Deliverables

1. Potential shortcomings of the current travel demand model (Version 2.3.57) and opportunities for improvement
2. Status report on the use of activity-based models and dynamic traffic assignment at peer MPOs
3. **Strategic plan for the improvement of the COG/TPB regional travel demand modeling procedures**



Strategic plan (Task Order 15.2)

- As part of strategic plan, we are soliciting input from
 - ▣ Users of COG/TPB travel demand model (“stakeholders”)
 - TPB staff, including senior management
 - State DOTs
 - Local governments
 - Other users, e.g., consultants, transit operators
 - ▣ 23 large MPOs considered peers of the TPB (next slide)



Peer MPOs for COG/TPB*

- 1. Southern California Association of Governments (SCAG)
- 2. New York Metropolitan Transportation Council (NYMTC)
- 3. The Chicago Metropolitan Agency for Planning (CMAP)
- 4. Metropolitan Transportation Commission (MTC)
- 5. North Jersey Transportation Planning Authority (NJTPA)
- 6. North Central Texas COG (NCTCOG)
- 7. Houston-Galveston Area Council (H-GAC)
- 8. Delaware Valley Regional Planning Commission (DVRPC)
- 9. **National Capital Region Transportation Planning Board (TPB)**
- 10. Atlanta Regional Commission (ARC)
- 11. Southeast Michigan COG (SEMCOG)
- 12. Maricopa Association of Governments (MAG)
- 13. Puget Sound Regional Council (PSRC)
- 14. Boston Region MPO
- 15. San Diego Association of Governments (SANDAG)
- 16. Metropolitan Council
- 17. Denver Regional COG (DRCOG)
- 18. Baltimore Regional Transportation Board (BRTB)
- 19. Southwestern Pennsylvania Commission (SPC)
- 20. East-West Gateway Council of Government (EWGCOG)
- 21. Sacramento Area COG (SACOG)
- 22. Portland Area Comprehensive Transportation System (METRO)
- 23. Mid-Ohio Regional Planning Commission (MORPC)

*20 largest MPOs (based on 2010 population in the MPO planning area) plus 3 smaller MPOs known for innovation in travel demand modeling

