

# Metropolitan Transportation Commission Administration Committee

September 9, 2020

Agenda Item 2e - 20-1169

## Contract - ActivitySim/emme Travel Model Conversion Project: WSP USA, Inc. (\$350,000)

**Subject:** A request for Committee approval to enter into a contract in an amount not to exceed \$350,000 with WSP USA, Inc. for conversion of Travel Model 2 to the ActivitySim and emme software platforms.

**Background:** The MTC travel model forecasting system, Travel Model 2 (TM2), is used for a wide variety of projects ranging from preparation of the Regional Transportation Plan and Sustainable Communities Strategy to detailed corridor studies. The travel models are an integral part of an integrated economic, land use and transport model system, including the use of Regional Economic Models Inc. (REMI) and UrbanSim.

TM2 currently utilizes two primary software packages – CT-RAMP (Java based software) and Cube Voyager (transport network software). MTC is one of the original founders of a consortium of public agencies<sup>1</sup> under the Association of Metropolitan Planning Organizations banner, to develop and enhance the ActivitySim platform. ActivitySim is now available to replace CT-RAMP. ActivitySim offers a more sustainable and useable software platform to support TM2.

The emme software platform provides MTC with the full range of capabilities needed to adequately support both the current version and expected enhancements to TM2, including the ability to consider transit capacity, crowding, and reliability. The Cube Voyager software is unable to provide this capability. As such, the use of emme provides MTC with a significantly more advanced transport modeling software platform.

This project will migrate the complete TM2 model system, i.e. the supply and demand components and supporting software/scripts, to the ActivitySim and emme platforms.

MTC anticipates that many, if not most, of our regional partners (County Transportation Agencies (CTAs) and transit service providers) will embrace TM2 as their modeling platform for carrying out their respective planning and operational responsibilities.

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<sup>1</sup> Puget Sound Regional Council (PSRC), Metropolitan Transportation Commission (MTC), San Francisco County Transportation Authority (SFCTA), San Diego Association of Governments (SANDAG), Atlanta Regional Commission (ARC), Southeast Michigan Council of Governments (SEMCOG), Oregon Department of Transportation, and Metropolitan Council.

**Procurement Process**

On April 27, 2020, MTC issued a Request for Proposals (RFP) for firms to provide consulting assistance in the above-mentioned effort. An email advertising the opportunity was sent to 2,901 firms and individuals. MTC received two proposals from WSP USA, Inc. (San Francisco, CA) and Resource Systems Group, Inc. (Portland, OR). The proposals were reviewed by an evaluation committee of MTC and San Francisco County Transportation Authority (SFCTA) staff. The evaluation criteria included the team’s experience and expertise (40%), Approach (30%), Cost Effectiveness (20%), and Presentation (10%). After initial evaluation, the panel entered into discussions and received Best and Final Offers from both firms. After a subsequent evaluation, the evaluation committee unanimously recommended the WSP USA, Inc. team based on its extensive experience and expertise of the proposed project manager and senior technical team, detailed technical approach which included a number of innovative features, and overall cost effectiveness. The final scores for each firm are set forth below:

Proposers	Total	Individual and Team Expertise	Approach	Cost Effectiveness	Presentation
	/100	/40	/30	/20	/10
WSP USA, Inc.	92.2	38.6	28	16.6	9
Resource Systems Group, Inc.	84.6	33.8	24.8	17.8	8.2

Attachment A includes a summary of WSP USA, Inc. and its project team’s Disadvantaged and Small Business Enterprise status.

**Issues:** None

**Recommendation:** Staff recommends that the Committee authorize the Executive Director or designee to enter into a contract with WSP USA, Inc. in an amount not to exceed \$350,000.

**Attachments:** Attachment A: Contractor DBE Status  
Request for Committee Approval – Summary of Proposed Contract

  
Therese W. McMillan

## Attachment A

### Small Business and Disadvantaged Business Enterprise Status

	Firm Name	Role on Project	DBE* Firm			SBE** Firm		
			Yes	If Yes, List #	No	Yes	If Yes, List #	No
Prime Contractor	WSP USA, Inc.	Technical Lead			X			X
Subcontractor	Urban Labs LLC	Software Support			X			X
Subcontractor	INRO Consultants	Emme software			X			X
Subcontractor	W&S Solutions	Network Development	X	38506				X
Subcontractor	Oakland Analytics	ActivitySim conversion			X			X

\*Denotes certification by the California Unified Certification Program (CUCP).

\*\*Denotes certification by the State of California.

## REQUEST FOR COMMITTEE APPROVAL

### Summary of Proposed Contract

Work Item No.: 1122

Consultant: WSP USA, Inc.  
425 Market Street, 17<sup>th</sup> Floor  
San Francisco, CA 94105

Work Project Title: ActivitySim/emme Travel Model Conversion Project

Purpose of Project: Migrate the complete Travel Model Two (TM2) travel forecasting model, i.e. the supply and demand components, to the ActivitySim and emme software platforms.

Brief Scope of Work: 11 individual tasks, including: conversion of the highway and transit networks to emme and conversion of the TM2 modules to ActivitySim; development of a graphical user interface; and development of standard reports, a user's guide, and user training.

Project Cost Not to Exceed: \$350,000

Funding Source: General Fund (\$100,000), FHWA Planning (\$125,000), FTA 5303 (\$125,000)

Fiscal Impact: All funds are programmed in the FY20-21 Budget.

Motion by Committee: That the Executive Director or designee is authorized to negotiate and enter into a contract with WSP USA, Inc. for the ActivitySim/emme Travel Model Conversion Project as described above and in the Administration Committee Summary Sheet dated September 9, 2020, and the Chief Financial Officer is authorized to set aside \$350,000 for such contract, subject to future annual budget approvals.

Administration Committee:

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Federal D. Glover, Chair

Approved: September 9, 2020