

Minutes of the
Oahu Metropolitan Planning Organization

TECHNICAL ADVISORY COMMITTEE

Tuesday, March 23, 2010, 10:00 a.m.
Department of Transportation 5th Floor Conference Room
869 Punchbowl Street, Honolulu, Hawaii

Members Present:

Mark Au, Chair	DTS	Kathy Sokugawa	DPP
Eugene Tian	DBEDT	James Burke	DTS
Jamie Ho	DOT	Gareth Sakakida (ex officio)	HTA
David Shimokawa	DOT	A. Ricardo Archilla (ex officio)	UH
Randolph Hara	DPP		

Members Absent:

Abe Mitsuda (DBEDT-OP), Steve Wong (FAA, ex officio), Elizabeth Fischer (FHWA, ex officio), (vacant, FTA, ex officio)

Guests Present:

Ken Tatsuguchi	DOT	Wayne Yoshioka	DTS
Steve Young	DPP	John Gliebe	Urban Analytics
Brian Suzuki	DTS	Paul Waddell	Urban Analytics

OahuMPO Staff Present: Lori Arakaki and Pamela Toyooka

The meeting was called to order at 10:04 a.m. by Chair Mark Au. A quorum was present. Everyone introduced themselves.

[Dr. A. Ricardo Archilla, Randolph Hara, and Kathy Sokugawa arrived at 10:12 a.m.]

I. APPROVAL OF THE FEBRUARY 11, 2010 MEETING MINUTES

Ms. Sokugawa moved and James Burke seconded that the minutes of February 11, 2010 be approved as circulated. The motion was unanimously carried.

II. REVIEW AND COMMENT ON THE LAND USE MODEL ENHANCEMENT PROJECT

Paul Waddell of Urban Analytics gave a presentation on the Land Use Model Enhancement Project. OahuMPO is working with the City and County of Honolulu Department of Planning and Permitting (DPP) to develop a new land use model that is integrated with the travel demand forecasting model. To date, OahuMPO has relied upon household and employment forecasts produced by DPP using a different forecasting procedure, based on a complex set of statistical

correlations developed from historical data. The intent of the project is to replace the current DPP forecasting procedures with the new integrated land use model.

Questions & Answers and Comments

Department of Transportation Services (DTS) Director Wayne Yoshioka, referring to the workplace location model, asked if this component would displace the home-based work function. Mr. Waddell responded that he is not talking about tour formation behavior. The model determines where the workplace is; not accounting for how workers chose to get there. Mr. Waddell stated that the workplace location model is optional. The travel model can be left as is; it was just being pointed out as an option.

Director Yoshioka asked if the model includes cost of infrastructure or lack of infrastructure. Mr. Waddell responded that the constraints can be defined by area (development constraints).

In response to Ken Tatsuguchi, Mr. Waddell responded that this was for the entire island of Oahu.

In response to Mr. Tatsuguchi, OahuMPO Acting Executive Director Lori Arakaki responded that the project is schedule to be completed in about a year.

In answer to a question by Ms. Sokugawa, Mr. Waddell clarified that the model system runs over a 30-year period. But, unlike static equilibrium models, the land use model simulates from year to year. It updates the data based on the new control totals, based on what the new transportation system is for that year. That allows for households and jobs to relocate; updates the real estate development and prices; then sets the clock for the next year and starts the process again.

Ms. Sokugawa asked what the operational cost of this modeling system will be for the City. Mr. Waddell responded that the intent of the project is to make the land use model as user-friendly as possible. It will not be successful if the staff cannot update the data and the assumptions. Staff should not have to rely on consultants to do updates, unless there is a significant change to the model. The models will run on a laptop; no mainframe is needed. The level of expertise is considerably lower than previously needed.

Director Yoshioka stated that this is a new user interface and model maintenance will need to be performed. DPP needs someone to understand the models and the process, so that person can make some judgments on whether or not to accept the model results. Mr. Waddell added that the idea is to have minimal staff support; staff must have some technical skills (such as, geographic information system or database).

Dr. Archilla asked about the update of the parameters of the models. Mr. Waddell responded that they could provide the tools and training in order to do that in-house.

Dr. Eugene Tian stated that the models will need to be recalibrated when the 2010 Census data is released. Mr. Waddell responded that, unlike econometric models which are time sensitive, the Urbansim land use model is more spatial. Urban Analytics is constrained by the project

schedule, so they cannot wait for the Census data. They will try to make it as straightforward as possible to do this.

Dr. Tian stated that someone with some expertise would be needed for this. Mr. Waddell responded that, if they were starting from scratch, he would agree. However, once the model is setup and specified with local data, the data is simply updated; and there should not be a need for drastic changes to the modeling structure.

III. OTHER BUSINESS (Announcements Only)

There being no other business, the meeting was adjourned at 11:24 a.m.