

Minutes of the
Oahu Metropolitan Planning Organization
TECHNICAL ADVISORY COMMITTEE
June 09, 2023
Virtual Meeting hosted on Microsoft Teams

Members Present:

Name	Agency	Voting Rights	Present
Wai Yi Ng (Chair)	HART	Yes	x
Masatomo Murata (Vice Chair)	HDOT	Yes	x
Ken Tatsuguchi	HDOT	Yes	x
Dennis Lovello	HART	Yes	x
Yoko Tomita	DTS	Yes	x
Eileen Mark	DTS	Yes	x
Dina Wong	DPP	Yes	x
Andy Yamaguchi	DPP	Yes	x
Joseph Roos	DBEDT	Yes	x
Aaron Setogawa	OPSD	Yes	x
Kimberly Evans	FAA	No	x
Mervin Acebo	FTA	No	x
Richard Yoneda	DFM	No	
Gareth Sakakida	HTA	No	
Tim Trang	DDC	No	
Amy Ford-Wagner	FHWA	No	x

Guests Present: Kiana Otsuka (HSEO), Greg Tsugawa (DTS), Kristen Nishimura (Jacobs), Ryan Fujii (FTA), Dr. Roger Chen (UH Manoa), Katie Rooney (Ulupono Initiative), Todd Boulanger (Biki), Max Kalhammer (DTS)

OahuMPO Staff Present: Nicole Smith, Mark Garrity, Dallas Ige, Chelsea Dau, Ken Schmidt, Lily Zheng, Zakari Mumuni

The meeting was properly noticed in accordance with State law.

I. CALL TO ORDER

Chair Ng called the meeting to order at 9:02 am.

II. ROLL CALL

OahuMPO staff took roll call by reading out the list of attendees in the meeting as noted in the Teams program. Members confirmed their attendance verbally and indicated whether anyone else was present with them.

III. APPROVAL OF THE MAY 12TH MEETING MINUTES

Chair Ng requested members review the minutes which were emailed in advance of the meeting. Chair Ng asked if any members had edits to the minutes and none responded. Aaron Setogawa made a motion and Andy Yamaguchi seconded to approve the minutes. The minutes were approved as distributed.

IV. REPORTS

A. Executive Director

Executive Director Garrity provided updates on the Overall Work Program (OWP) Revision #1, the Transportation Improvement Program (TIP) FFYs 2022-2025 Revisions 14 and 15, the Oahu Regional Transportation Plan 2050, the Multimodal Marathon/Commute Challenge, and Personnel and Training. Director Garrity reported on the business conducted in the May 30, 2023 meeting of the Policy Board and the June 7, 2023 meeting of the CAC. Director Garrity shared that the next Policy Board meeting is scheduled for Tuesday, June 27 at 1:00 p.m and that the next CAC meeting is scheduled for Wednesday, July 5 at 2:30 p.m.

The Executive Director's Report can be viewed at:

https://www.oahumpo.org/?wpfb_dl=2784

V. OLD BUSINESS

VI. NEW BUSINESS

A. Overall Work Program Work Element Presentation: Autonomous Vehicle Planning Study

Dr. Roger Chen with the Civil and Environmental Engineering Department at the University of Hawaii at Manoa, who completed the study with the assistance of two students, described the motivation for doing the study and summarized key points from the literature regarding autonomous vehicles (AVs).

Dr. Chen stated that the goals of this study were to easily generate household travel patterns with AV availability, and to identify realistic AV travel patterns adopted by households. He described the study framework and approach

which used the Oahu household travel survey and the OahuMPO travel demand forecasting model to create an AV model. The AV model generated AV patterns for each household, feedback was collected, and the result was a set of feasible patterns calibrated with some parameters.

Dr. Chen then described two broad sets of heuristics based on computational rules related to the routing of the AVs. As an example of what the model calculated, he shared the travel patterns of two actual households from the household travel survey and how an AV would complete that household's travel pattern more efficiently. Dr. Chen described the sample of households used in the model.

Dr. Chen noted that total travel time, total idle time and total number of vehicles required to complete the household travel pattern varied across heuristics. He also looked at relative improvement by comparing travel times from the household sample with the travel times from the solution produced by the AV model. Dr. Chen also added a HART scenario for select households of potential rail users and shared the findings of this analysis.

Dr. Chen summarized the study findings and shared how this analysis could be integrated into the travel demand forecasting model. Dr. Chen also noted opportunities for future examination in AV modeling.

Andy Yamaguchi asked Dr. Chen to explain fleet dispatching. Dr. Chen explain that fleet dispatching is essentially a model to dispatch a fleet of vehicles, like taxis, but that the AV model examined fleets at the household level. Director Garrity thanked Dr. Chen for the presentation and expressed an interest in further discussion about integrating Dr. Chen's findings into the travel demand forecasting model.

Dine Wong made a motion and Joseph Roos seconded to recommend that the Policy Board approve the report as evidence the work was carried out, submit the final report to USDOT for approval, and incorporate study findings into the metropolitan transportation planning process. There were no abstentions or objections and the motion passed.

VII. INVITATION TO INTERESTED MEMBERS OF THE PUBLIC TO BE HEARD ON MATTERS NOT INCLUDED ON THE AGENDA

None.

VIII. ANNOUNCEMENTS

Director Garrity thanked the HDOT team for their efforts organizing the WASHTO conference this week from June 5-7 at Hilton Hawaiian Village.

Wai Yi Ng announced the grand opening of interim rail service on June 30. Discussion ensued about Apple Maps and Google Maps integration with rail timetables.

Director Garrity invited TAC members to join OahuMPO's planned field trip on Monday, July 3rd to ride the rail to the end of the line and stop for lunch on the way back.

IX. ADJOURNMENT

Chair Ng adjourned the meeting at 9:44 am.

The meeting's presentation may be viewed at:

https://oahumpo.org/?wpfb_dl=2926