

**OVERALL WORK PROGRAM**  
**Fiscal Year 2022**  
(July 1, 2021 – June 30, 2022)

**Endorsed by the OahuMPO Policy Board on May XX, 2021.**

*Public Review Draft*



Prepared by

OAHU METROPOLITAN PLANNING ORGANIZATION

In Cooperation with Its Member Agencies

State of Hawaii Department of Transportation  
City and County of Honolulu Department of Transportation Services  
Honolulu Authority for Rapid Transportation

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## Executive Summary

This document presents the FY 2022 Overall Work Program (OWP) for the Oahu Metropolitan Planning Organization (OahuMPO). The FY 2022 OWP serves as the key management tool for coordinating transportation planning for the island of Oahu by the State and the City. The OWP provides complete budget information to Federal, State, and City officials and to the public for the expenditure of Federal funds for planning activities being carried out by the OahuMPO and its participating agencies. OahuMPO participating agencies include the Hawaii Department of Transportation (HDOT), The City and County of Honolulu Department of Transportation Services (DTS) and the Honolulu Authority for Rapid Transportation (HART).

The OWP is a prerequisite for metropolitan transportation planning activities performed with Federal funds provided under 23 United States Code (U.S.C.) and 49 U.S.C. 53.<sup>1</sup>

In FY 2022,<sup>2</sup> OahuMPO anticipates new funding sources – consisting of Federal grants and required local matching funds - to total \$1.9 million. In addition, a balance of \$4.5 million in FHWA & FTA funds remains unobligated from prior years. Total funds available for metropolitan planning on Oahu equals over \$6 million. OahuMPO has sufficient funding available to support the Overall Work Program FY2021 request of \$3,166,000.

**Table ES-1. Expected Funding Sources and Programmed Expenditures**

Expected Funding Sources	Federal + Local
Federal Highway Administration- PL (New Funds)	\$1,627,839
Federal Transit Administration - 5305(d) (New Funds)	\$295,727
Federal Highway Administration - PL (Unobligated Balance)	\$4,588,215
<b>TOTAL AVAILABLE FUNDING</b>	<b>\$6,511,781</b>

OWP FY2022 Programming Request	Federal + Local	Federal	Local
OahuMPO Operations	\$1,867,790	\$1,494,232	\$373,558
Subrecipient Studies	\$1,298,210	\$1,038,568	\$259,642
<b>TOTAL PROGRAMMING REQUEST</b>	<b>\$3,166,000</b>		

In FY2022, OahuMPO's priorities are to focus on federally required work products, and will particularly emphasize the following:

- Development of the Oahu Regional Transportation Plan 2050 (ORTP) will begin in FY22. This includes updates to the Transportation Demand Forecasting Model (TDFM) and Congestion Management Process (CMP), phase one of public involvement, and gathering data for the existing and forecasted conditions report
- Resolving findings of the 2018 Certification Review and subsequent audit;
- Update to the Overall Work Program Processes & Procedures;
- Revising the current Transportation Improvement Program (TIP);
- Implementation and monitoring of Federal performance measures;
- Continued emphasis on proactive and transparent public involvement; and
- Continual improvement and evaluation of Title VI/EJ areas in all required work products.

<sup>1</sup> 23 CFR 450.308.

<sup>2</sup> The State fiscal year (FY) 2022 covers the period from July 1, 2021 through June 30, 2022, inclusive. Funding for these projects utilizes the Federal appropriation received for Federal fiscal year (FFY) 2021, which covers the period between October 1, 2020 and September 30, 2021.

The budgets for work elements reflect these priorities, as well as continued work to support OahuMPO's Policy Board and advisory committees, management of ongoing agency consultant studies, and support of subrecipient studies.

### **Work Element Summary**

The FY 2022 OWP consists of the following planning activities (projects in **bold** are new):

#### Task 1: MPO Administration and Management

- Program Administration & Management
- OWP Development & Management
- Subrecipient Monitoring
- Single Audit
- Public Participation

#### Task 2: Data Development & Maintenance

- Transit Rider Survey Project
- Computer Model Operations & Support
- Active Transportation Monitoring Data – Phase I
- **Active Transportation Monitoring Data – Phase III**
- **Web-Based Planning Tools for Complete Streets and Transit**

#### Task 3: Short Range Planning

- Transportation Improvement Program
- Transportation Alternatives Coordination
- Oahu Mass Transit Joint Feasibility Study
- Waikiki Loading Zone Management Study
- Ala Moana Transit Plaza Alternatives Analysis
- Multi-Modal Transit Asset Management Plan
- Kapolei Maintenance Facility and Transit Center Alternatives Analysis
- Royal Kunia Public Transit and Day Care Facility Master Plan
- Review and Update of Planned Rights of Way for Existing Streets
- Transportation Demand Management Plan
- Vision Zero Action Plan
- New Mobility Plan
- Autonomous Vehicle Planning Study
- Plan for Improved Resilience to Coastal Hazards through Green Infrastructure
- Multi-Modal Mobility Hub Plan for Oahu
- Alternative Deployment of AV Technology Scenarios Plan
- Dillingham Corridor Mobility Data Planning Study
- Multi-Modal Transit Asset Management Plan – Phase 2
- Farrington Highway Makaha Beach Park Realignment Feasibility Study
- Energy Conservation & Emissions Reduction Plan
- **Oahu Green Stormwater Infrastructure Plan**

#### Task 4: Long Range Planning

- Oahu Regional Transportation Plan
- Congestion Management Process Update
- **Educational Framework for Youth Engagement in Oahu's Transportation Planning**

# Introduction

## Overview

This document presents the FY 2022 Overall Work Program (OWP) for the Oahu Metropolitan Planning Organization (OahuMPO). The FY 2022 OWP serves as the key management tool for coordinating and conducting the transportation planning activities of the OahuMPO, State of Hawaii Department of Transportation (HDOT), City and County of Honolulu Department of Transportation Services (DTS), and Honolulu Authority for Rapid Transportation (HART) on the island of Oahu. The OWP is a prerequisite for metropolitan transportation planning activities performed with Federal funds provided under 23 United States Code (U.S.C.) and 49 U.S.C. 53.

## Oahu Planning Priorities

This section to be developed prior to release for public review

## OWP Structure

The Overall Work Program is broadly organized into four main tasks as described below:

- **Task 1 – MPO Administration and Management** includes the general administration of transportation planning grants for Oahu. These work elements are on-going and/or reoccurring efforts that serve to meet Federal requirements and support continuous, comprehensive and cooperative transportation planning.
- **Task 2 – Data Development & Maintenance** describes the collection, maintenance and analyses of special and demographic data to support planning efforts.
- **Task 3 – Short Range Planning** includes planning for activities taking place within a three to ten-year time frame, including the TIP and transit feasibility and operations planning. Task 3 activities assist in the development of the ORTP.
- **Task 4 – Long Range Planning** includes planning activities that develop, document, amend, and publish the Oahu Regional Transportation Plan (ORTP) to meet the needs of the metropolitan area for a 20-year horizon, in accordance with Federal, State, and local regulations.

## Federal Funding - Overview

Funds available to support the Overall Work Program FY2021 consist of Federal and non-Federal sources. The Federal funds are provided by the Federal Highway Administration and the Federal Transit Administration and cover 80% of the OWP budget. The non-Federal funds from the City Department of Transportation Services, the State of Hawaii Department of Transportation, and the Honolulu Authority for Rapid Transportation cover the remaining 20%.

The non-Federal funds for the OWP consist of member dues from partner agencies to support OahuMPO operations, and a local match for planning studies proposed by partner agencies and other state & local governmental agencies.

## Federal Funds

### New in FY2022

Each year, OahuMPO receives a total of approximately \$1,900,000 in new Federal planning funds from the Federal Highway Administration and the Federal Transit Administration. These funds are authorized by the Federal government through Fixing America's Surface Transportation Act (i.e. FAST Act) which took effect on October 1, 2015. The FAST Act is a five-year authorization of transportation programs covering Federal fiscal years 2016 through 2020.

The metropolitan planning funds available for state FY2022 utilizes the Federal appropriation received for Federal fiscal year (FFY) 2020 and includes the following:

**49 USC 5303/5305(d).** These FTA funds are used for planning purposes and often involve transit-related projects. Metropolitan transportation planning activities using these funds must be programmed in the OWP.

**23 USC 104(b)** FHWA Metropolitan Planning (PL) funds: PL funds are available for MPOs to carry out the metropolitan transportation planning process required by 23 U.S.C. 134, including development of metropolitan area transportation plans and transportation improvement programs. PL funds cannot be used for NEPA activities or activities that will result in a project's final design.

#### Remaining from prior years

In addition to the new Federal funds described above, a balance of \$4.5 million in FHWA funds remains available to OahuMPO from prior year apportionments.

**Table 1. Availability of Federal Funds**

Funding Type	State of Hawaii	OahuMPO Share
New Apportionment: FTA 5303/5305(d)	\$467,811	\$295,727
New Apportionment: FHWA - PL	\$1,874,527	\$1,627,839
Unobligated Balance: FHWA - PL	\$5,283,527	\$4,588,215
	Total New Apportionment	\$1,923,566
	Total Available Funds	\$6,511,781

#### Non-Federal Share of OahuMPO Operations – Regular Member Dues

Federal funds that support OahuMPO's staff, consultants and operations are matched with non-Federal funds provided by the State of Hawaii Department of Transportation, the City and County of Honolulu Department of Transportation Services, and the Honolulu Authority for Rapid Transportation. These funds are referred to as member dues and are established by a Finance Supplemental Agreement<sup>4</sup> between OahuMPO and these three agencies. Members contribute \$125,000 each annually to support OahuMPO operations. The \$375,000 that OahuMPO receives annually as member dues enables the agency to program up to \$1,875,000 in planning activities annually through the OWP.

Each year, any unspent and unencumbered balance from the previous year's dues is calculated and used to offset the dues requirements for the current year.

Table 2 summarizes the unencumbered member dues balance from previous years, and the credit applied to each of OahuMPO's member agencies.

<sup>4</sup> The Finance Supplemental Agreement is available here: [https://www.oahumpo.org/?wpfb\\_dl=1839](https://www.oahumpo.org/?wpfb_dl=1839)

Table 2. FY 2022 Dues and Credit for Dues Remaining from Previous Years (SUBJECT TO CHANGE)

Unexpended dues remaining	Credit to each partner agency	Invoice to each agency in July 2021	Supporting funds for FY2021 per agency	Total OahuMPO supporting funds for FY2020
\$114,925	\$38,308	\$86,692	\$125,000	\$375,000

**Non-Federal Share of New Planning Studies**

In the OWP FY 2021, OahuMPO state and local agencies propose five new work elements costing a total of \$1,675,000. Each agency will provide the required 20% match for their respective studies for a total of \$335,000.

Table 3. Local Matching Funds for Planning Studies

Work Element Title	Responsible Agency	Federal Share (FHWA/FTA)	Local Share	Total Cost
Educational framework for youth engagement in Oahu's transportation planning	UH	\$170,568	\$42,642	\$213,210
Oahu Green Stormwater Infrastructure (GSI) Plan	DTS/DFM	\$400,000	\$100,000	\$500,000
Active Transportation Monitoring Data – Phase III	DTS	\$188,000	\$47,000	\$235,000
Web-Based Planning Tools for Complete Streets and Transit - FY22	DTS	\$140,000	\$35,000	\$175,000
Web-Based Planning Tools for Complete Streets and Transit - FY23	DTS	\$140,000	\$35,000	\$175,000

\$259,642

## Task 1: MPO Management & Program Administration

### Purpose

To accomplish, on a continuing basis, the plans and programs necessary to administer Federal transportation planning grants and maintain the continuing, cooperative and comprehensive (3-C) planning process in and for the Oahu Transportation Management Area.

The OahuMPO is responsible for all of Task 1 and the work elements are on-going from July 1, 2021 through June 30, 2022.

### Ongoing Work Elements

- **Program Administration & Management**

- Preparation for and attendance at properly noticed Policy Board, Technical Advisory Committee, and Citizen Advisory Committee meetings;
- Professional development of OahuMPO staff and Policy Board members in the form of conferences, training sessions, and webinars, as well as membership in applicable professional associations;
- Provision of education and orientation sessions for the Policy Board, Technical Advisory Committee and Citizen Advisory Committee per their respective bylaws;
- Maintenance of staff timesheets;
- Maintenance of individual computers and the OahuMPO computer network;
- OahuMPO overhead/indirect costs;
- Participation in other regional and statewide planning activities and with organizations that impact the regional multimodal transportation system;
- Management of the Disadvantaged Business Enterprise (DBE) program to give minority-owned, women-owned, and other DBEs an opportunity to compete for Federally-assisted planning projects; and
- Maintenance of agreements with partner agencies: Comprehensive Agreement, Finance Supplemental Agreement, Administrative Supplemental Agreement, and Data Sharing Agreement.

- **OWP Development & Management**

- Development of an annual OWP that refers to the planning priorities and associated regionally significant projects for the OahuMPO and its member agencies
- Development of an Annual Report to the Federal Highway Administration, the Federal Transit Administration and the Hawaii State Legislature twenty days prior to the start of the regular session;<sup>5</sup>
- Revisions and administrative modifications of the OWP as needed; and
- Maintenance of OWP Process & Procedures document.
- Ongoing monitoring of work element budgets

- **Subrecipient Monitoring & Support**

- Monitoring of subrecipients of planning grant funds consistent with 2 Code of Federal Regulations (CFR) 200;
- Ensuring that OahuMPO meets its Federal requirements as a pass-through entity; and
- Monitoring and documentation of the progress of planning studies and active work elements from previous years.

- **Single Audit**

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<sup>5</sup> As required by the Administrative Supplemental Agreement, available here: [https://www.oahumpo.org/?wpfb\\_dl=1614](https://www.oahumpo.org/?wpfb_dl=1614)

- This work element ensures that the financial operations of the OahuMPO and its sub-grantees comply with applicable Federal laws and regulations pursuant to the Single Audit Act Amendments of 1996, as amended.
- In FY21 OahuMPO will implement an accounting system per the auditor's recommendation to streamline and ensure the accuracy of payment processing, report generation and record keeping.

- **Public Participation**

- In accordance with OahuMPO's *Public Participation Plan*, OahuMPO provides individuals, affected public agencies, representatives of public transportation employees, freight shippers, providers of freight transportation services, private providers of transportation, representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, and other interested parties with reasonable opportunities to be involved in the metropolitan transportation planning process
- This work element Includes OahuMPO staff time to develop, maintain, and update, in consultation with interested parties, the Public Participation Plan to describe explicit procedures, strategies, and desired outcomes for public participation.

### Budget Summary – Task 1

Work Element Description	Cost Category	Agency	OWP FY2021 Activity		Funding Request for OWP FY2022			
			FY2021 Budget	Balance as of 12/31/20	FHWA-PL	FTA 5303(d)	Local Match	Total
Program Administration & Management	Staff Time	OahuMPO	\$538,500	\$256,087	\$329,249	\$159,727	\$122,244	\$611,220
OWP Development & Management	Staff Time	OahuMPO	\$82,000	\$49,502	\$65,468	\$0	\$16,367	\$81,835
Subrecipient Monitoring & Support	Staff Time	OahuMPO	\$10,500	-\$9,607	\$16,458	\$0	\$4,115	\$20,573
Single Audit	Staff Time	OahuMPO	\$44,000	\$25,316	\$35,927	\$0	\$8,982	\$44,909
Public Participation	Staff Time	OahuMPO	\$11,000	-\$4,560	\$7,748	\$0	\$1,937	\$9,685
OahuMPO Paid Time Off	Staff Time	OahuMPO	\$174,500	N/A	\$143,314	\$0	\$35,828	\$179,142
Professional Development	Travel	OahuMPO	\$30,000	\$23,045	\$16,000	\$0	\$4,000	\$20,000
Single Audit	Consultant	OahuMPO	N/A	N/A	\$36,000	\$0	\$9,000	\$45,000
Computer & Network Maintenance	Consultant	OahuMPO	N/A	N/A	\$16,000	\$0	\$4,000	\$20,000
Rent, Utilities & Misc Expenses	Overhead	OahuMPO	N/A	N/A	\$0	\$136,000	\$34,000	\$170,000

**TASK 1 TOTALS**
**\$666,164    \$295,727    \$240,473    \$1,202,364**

## Task 2: Data Development & Maintenance

### Purpose

To create, update, and maintain spatial information, demographic data, and analyses to support planning efforts.

### Ongoing Work Elements

- **Computer Model Operations and Support**

This Work Element supports the metropolitan transportation planning process and the federally required Congestion Management Process through the ongoing use of computer modeling. The following types of computer models are included under this task: Travel Demand Forecasting Model (TDFM); Land use modeling; transit operations modeling; GIS-based analytical tools.

- **TDFM Data Purchase**

The last Oahu household travel survey was conducted in 2012. The data was used to develop the TDFM, which forecasts the traffic impacts of various land use changes. Since the household survey was conducted, there have been important changes on Oahu that have likely impacted travel behavior.

Given the federal requirement to base updates to the metropolitan transportation plan on current data<sup>6</sup>, OahuMPO plans to purchase new household travel survey data in 2022 and is programming the necessary funds in two cycles of the OWP.

Responsible agency: OahuMPO  
Project schedule: July 2021 – June 2024

- **Title VI/Environmental Justice Monitoring**

This work element updates OahuMPO's Title VI and Environmental Justice (T6/EJ) populations with the race, ethnicity, income, and limited-English-proficiency data from the 2010 Census and other available resources. Using the GIS based analytical tool, OahuMPO will evaluate the current ORTP and TIP projects using the updated performance measures and document the analysis.

### New Work Elements

- **Web-Based Planning Tools for Complete Streets and Transit**

The objective is to provide tools for staff to perform planning functions for Complete Streets projects and transit improvements in-house thereby reducing dependence on consultant contracts, reducing planning and design costs, and increasing project delivery.

This project will greatly reduce HART and OahuMPO's consultant labor costs by automating tasks that must currently be done manually. It has a Title VI and Environmental Analysis tool and is able to create GTSF outputs for the Travel Demand Forecasting Model.

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<sup>6</sup> Per 23 CFR 450.324, updates to metropolitan transportation plans should be based on the latest available estimates and assumptions for population, land use, travel, employment, congestion, and economic activity.

- **Active Transportation Monitoring Data Phase III**

This project is the third phase of an effort to collect and manage active transportation data, which are first steps toward establishing an Island Wide Active Transportation Monitoring Program. This project will allow for the monitoring of regional trends in bicycle and pedestrian travel volumes.

Phase three of the project is distinguished from prior phases by the locations of the bike/ped counters.

Responsible agency: DTS

Project schedule: To be determined upon obligation of the funds

### **Work Elements Programmed in Prior Years**

- **2019 Transit Rider Survey Project (203.09-18)**

The 2019 Transit Rider Survey Project will identify travel patterns and socio-economic profiles of transit riders to document the baseline conditions prior to the opening of the rail system. In addition, the survey results will be used to update and further calibrate the OahuMPO regional travel demand forecasting model (TDFM).

Consultant scope of work and identification of procurement method have been delayed due to investigation of alternative, more efficient survey methodologies and data methods---such as the use of mobile phone data or other information.

Responsible agency: DTS

Project schedule: July 2018 – June 2022

- **Active Transportation Monitoring Data Phase I**

This project will collect and manage active transportation data, which are first steps toward establishing an Island Wide Active Transportation Monitoring Program. This project will allow for the monitoring of regional trends in bicycle and pedestrian travel patterns.

The data produced by this project will be shared with regional stakeholders and can be used in the calibration and validation of the TDFM, and in the prioritization of funding for bicycle and pedestrian improvement projects.

Responsible agency: DTS

Project schedule: July 2020 – June 2024

**Budget Summary – Task 2**

Work Element Description	Cost Category	Agency	OWP FY2021 Activity		Funding Request for OWP FY2022			
			FY2021 Budget	Balance as of 12/31/20	FHWA-PL	FTA 5303(d)	Local Match	Total
2019 Transit Rider Survey Project	Subrecipient	DTS	\$0	\$1,400,000	<b>FUNDED IN OWP FY 2018</b>			
Active Transportation Monitoring Data Phase I	Subrecipient	DTS	\$0	\$200,000	<b>FUNDED IN OWP FY 2021</b>			
Active Transportation Monitoring Data Phase III	Subrecipient	DTS	N/A	N/A	\$188,000	\$0	\$47,000	\$235,000
Web-based Planning Tools for Complete Streets and Transit - FY22	Subrecipient	DTS	N/A	N/A	\$140,000	\$0	\$35,000	\$175,000
Web-based Planning Tools for Complete Streets and Transit - FY23	Subrecipient	DTS	N/A	N/A	\$140,000	\$0	\$35,000	\$175,000
Computer Model Operations and Support	Staff Time	OahuMPO	\$36,000	\$20,160	\$23,570	\$0	\$5,893	\$29,463
Title VI/EJ Monitoring	Staff Time	OahuMPO	\$6,500	\$5,279	\$6,445	\$0	\$1,611	\$8,056
Computer Model Operations and Support - Consultant	Consultant	OahuMPO	\$200,000	N/A	\$160,000	\$0	\$40,000	\$200,000
Computer Model Operations and Support - TDFM Data Purchase	Data/Support	OahuMPO	\$50,000	\$50,000	\$80,000	\$0	\$20,000	\$100,000
<b>TASK 2 TOTALS</b>					<b>\$738,015</b>	<b>\$0</b>	<b>\$184,504</b>	<b>\$922,519</b>

## Task 3: Short Range Planning

### Purpose

To perform the required short-range transportation planning activities which will assist in the development of long-range plans and on-going projects.

### Ongoing Work Elements

- **Transportation Improvement Program**

The Transportation Improvement Program (TIP) is a four-year program for short-term, ready-to-go, and federally funded surface transportation projects. The TIP is revised on a bi-annual schedule in coordination with the State of Hawaii Department of Transportation, City and County of Honolulu Department of Transportation Services, and the Honolulu Authority of Rapid Transportation; with potential for numerous Pre-Approved revisions to be completed outside of the two customary annual revision cycles.

Within the predetermined schedule, a call for project revisions is issued to partner agencies in April and then in September and the cycle culminates roughly six months later. There are three types of TIP revisions:

- Pre-Approved administrative modifications are rapid and simple changes to projects that do not need either public or intergovernmental consideration and do not need committee consideration or approval;
- Expediated administrative modifications require TAC endorsement and Policy Board approval but do not need to consider public, intergovernmental, or CAC consideration;
- Amendments are major changes to projects that must illicit public comments and intergovernmental review as well as be endorsed by TAC, and then finally approved by the Policy board.

Responsible agency: OahuMPO  
Project schedule: July 1, 2021 – June 30, 2022

- **Transportation Alternatives Set-Aside Coordination**

The Fixing America's Surface Transportation (FAST) Act has eliminated the MAP-21 Transportation Alternatives Program (TAP) and replaces it with a set-aside of STBG funding for transportation alternatives. For administrative purposes these funds referred to as the "Transportation Alternatives Set-Aside" (TA Set-Aside). OahuMPO is responsible for awarding TA Set-Aside funds through a competitive process. TA Set-Aside funds are generally available for, but not limited to, smaller-scale transportation projects such as on- and off-road pedestrian and bicycle facilities, recreational trails, safe routes to school projects, or infrastructure projects for improving non-driver access to public transportation and enhanced mobility. OahuMPO staff will solicit, evaluate, and award TA Set-Aside funds; monitor project implementation; and coordinate with grantees, DTS, and HDOT to ensure timely implementation of projects and use of TA Set-Aside funds.

Responsible agency: OahuMPO  
Project schedule: July 1, 2021 – June 30, 2022

## Work Elements Programmed in Prior Years

### Transit Studies

- **Oahu Mass Transit Joint Feasibility Study (203.06-18)**

The Oahu Mass Transit Joint Operations Feasibility Study ("the study") shall examine various operational alternatives for bus – rail mass transit operations on Oahu, including but not limited to joint operations, independent operations and/or hybrid operations. The study shall examine Oahu's existing bus mass transit system as a baseline, Honolulu's rail mass transit project, including but not limited to projected rail operations, and other bus – rail systems and operations in peer municipalities and cities nationally and world-wide.

Responsible agency: DTS  
Project schedule: July 2018-June 2022

- **Multi-Modal Transit Asset Management Plan – Phase 1 (203.12-19)**

This project will continue the development of a Transit Asset Management (TAM) Plan for the City and County of Honolulu that addresses State of Good Repair policies for maintaining a multi-modal transit system and incorporates targets, strategies and an evaluation plan for integrated bus and rail transit facilities.

Responsible agency: DTS  
Project schedule: July 2018 – June 2022

- **Multi-Modal Transit Asset Management Plan – Phase 2**

The primary objective is to continue development and support implementation of a Transit Asset Management (TAM) Plan for the City and County of Honolulu that addresses State of Good Repair (SGR) policies for maintaining a multi-modal transit system and incorporates targets, strategies, and an evaluation plan for integrated bus and rail transit facilities.

The Multi-Modal TAM Plan - Phase 2 will build upon work slated to be completed under the FY2019 Overall Work Program (OWP) Work Element 203.12-19- Multi-Modal Transit Asset Management Plan.

The selected consultant will conduct an in-depth assessment of the City's current asset management capabilities and TAM environment, including current resources available and systems in place to manage the City's transit-related capital assets. The consultant will work with the City to first define TAM goals and objectives and then conduct a gap analysis in order to identify key areas for improvement and the steps needed to achieve the defined goals and objectives. The consultant will also continue to update the City's asset inventory and condition assessments, which the consultant will use as a basis for developing a capital needs forecast. In addition, the consultant will develop a performance measurement framework to allow the City to more easily track and communicate progress in relation to key performance criteria and toward achieving its TAM goals and objectives. Consultant services will also include assessing the City's needs and identifying recommendations regarding development and implementation of an Enterprise Asset Management (EAM) system, including functional and technical requirements and desired outcomes for any software solution. Lastly, the consultant would work closely with the City to develop an update to the City's TAM Plan in accordance with FT A requirements.

Responsible agency: DTS  
Project schedule: July 2020 – June 2024

- **Ala Moana Transit Plaza Alternatives Analysis (203.14-19)**

This study will develop preliminary planning and design alternatives for a new transportation facility that will facilitate transfers between bus and rail transit modes for public transit system passengers. It is envisioned as a multi-modal transit plaza with support facilities for bike-share operations and bus transit vehicles, including short-term parking, layovers, and electric charging stations. The study will assess options for incorporating commercial and residential uses as part of an integrated development.

Responsible Agency: DTS  
Project schedule: July 2018 – June 2022

- **Kapolei Maintenance Facility & Transit Center Alternatives Analysis (203.17-19)**

The focus of this project is the development of a new support facility for the public transit system, including new administration, maintenance and parking facilities to serve as the West Oahu base for the bus transit fleet. The alternatives analysis will assess options for incorporating commercial and residential uses as part of an integrated development.

Responsible agency: DTS  
Project schedule: July 2018 – June 2022

- **Royal Kunia Public Transit and Day Care Facility Master Plan (203.13-19)**

This study will develop preliminary planning and design alternatives for the redevelopment of the existing Royal Kunia park-and-ride facility and transit center as a mixed-use facility including a light duty maintenance facility for the City and County of Honolulu's paratransit (TheHandi-Van) vehicles, public transit park-and-ride and transit center, and a multi-generational day care facility.

Responsible agency: DTS  
Project schedule: This work element does not currently have funds obligated. The project schedule will be set at the time funds are obligated.

### **Right-Of-Way Studies**

- **Waikiki Loading Zone Management Study (203.11-19)**

The Waikiki Loading Zone Management Study will conduct site specific transportation assessments using methodologies contained in recent reports performed for private sector sponsors to identify, analyze, evaluate and resolve severe commercial vehicle loading conflicts within Waikiki. Those examples include the "*Royal Hawaiian Avenue Commercial Vehicle Operator Transportation Assessment*" and the "*Transportation Assessment of Commercial Vehicle Operations Along Ala Moana Boulevard in Waikiki*".

Responsible Agency: DTS  
Project schedule: This work element does not currently have funds obligated. The project schedule will be set at the time funds are obligated.

- **Review and Update of Planned Rights of Way for Existing Streets (203.07-18)**

This study will review the City's existing policies regarding widening and improvement of existing streets island wide, consistent with recommendations from the Primary Urban Center Development Plan and the ongoing Complete Streets Implementation Study.

Responsible agency: DTS

Project schedule: July 2016 – June 2021

- **Multi-Modal Mobility Hub Planning**

The study proposes to assess state parking facilities on O'ahu that will allow for multi-modal use. It proposes to identify and describe state parking facilities, including their utilization rates and evaluate various ways to make better use of these state assets in ways that encourage the use of alternative transportation and mobility options. This study and the resulting plan will help the State and City meet their clean transportation goals, while maximizing public benefit.

Responsible agency: Department of Land and Natural Resources

Project schedule: This work element does not currently have funds obligated. OahuMPO and DLNR are working to develop an MOA. The project schedule will be determined at the time funds are obligated.

- **Farrington Highway Makaha Beach Park Realignment Feasibility Study (202.14)**

This study will examine the social, environmental, technical, and economic impacts, costs, and benefits of realignment alternatives of Farrington Highway mauka of Makaha Beach Park. The study will make a recommendation as to the feasibility of realigning the roadway based on a technical evaluation.

Responsible agency: OahuMPO

Project schedule: July 2014 – June 2022

## **Safety Studies**

- **Vision Zero Action Plan (203.19-20)**

The primary objective is to develop a Vision Zero Action Plan within the existing City and County of Honolulu Complete Streets Program that will identify high crash locations, establish and prioritize Vision Zero projects, develop educational materials, and evaluate safety improvements.

The City and County of Honolulu is committed to ending traffic violence on Oahu. The Vision Zero Action Plan will eliminate traffic deaths and serious injuries on our streets by 2035. The City will identify Oahu's high crash network (HCN) streets and intersections in Title VI/EJ areas, which will be prioritized for safety investments. The HCN and safety statistics will be presented to the public online through interactive maps on a new Vision Zero website page that will be linked to the City's existing Complete Streets website. The Plan will develop educational, pledge and safety materials that will enhance the action plan messaging of safety, health and equitable mobility for all, including speed awareness. Legislative recommendations will be made with respect to fixed speed safety and red-light cameras. Design recommendations, including intersection visibility design guidelines, will be produced and applied to the HCN locations. Safety projects will be prioritized, tested and evaluated for their potential for future capital improvement projects. A public-facing dashboard will be developed that outlines Vision Zero Actions and performance measures. Key action areas include street design, impairment, speed, dangerous behaviors, and education and accountability. Deliverables will be reviewed by a technical advisory group and presented at community pop-ups and/or meetings.

Responsible agency: DTS

Project schedule: July 2019- June 2023

## **Transportation Alternatives Studies**

- **Transportation Demand Management Plan (203.17-20)**

The primary objective is to develop a Transportation Demand Management (TDM) Plan for the City and County of Honolulu that will develop targets, strategies, and evaluation measures to reduce vehicle miles traveled (VMT) and reduce single-occupancy vehicle (SOV) mode share.

The City and County of Honolulu TDM Plan will reduce and mitigate VMT in line with the City 2018 Climate Change directive. The consultant will be responsible for developing island-wide residential and employer mode share targets and strategies. These targets will be consistent with legislated State targets and draw from best practices research. Recommendations for legislative changes and enabling policies will also be provided by the consultant. The consultant shall develop a TDM program website, in addition to providing marketing support and educational materials that will be easily accessible online. Community outreach and engagement with key stakeholders in the form of a working group will be managed by the consultant. The consultant will also develop an online TDM monitoring and web map reporting system for the City website.

Responsible agency: DTS  
Project schedule: July 2019- June 2023

- **New Mobility Plan (204.01-20)**

The primary objective of this study is to develop a New Mobility Plan for the City and County of Honolulu that will provide policies, principles, strategies and specifications to assist in the regulation of disruptive and emerging technologies in the new mobility marketplace.

The City will define and inventory existing mobility services and technologies, and typologize and evaluate them in their approach to mobility on Oahu. The City will be responsible for developing guiding principles and policies for new emerging mobility, based off of best practices and provide legislative and/or administrative rule recommendations. The City will conduct a new mobility attitudes survey, addressing public opinion regarding new mobility, including public opinion for new mobility zones. City will hold meetings with key stakeholders, including new mobility providers, to better understand mobility technologies and current gaps in knowledge. The City will provide plan-level circulation element and specifications focusing on fleet parking dock zones and wayfinding in order to address new mobility first-last mile connections around rail station areas. The City will develop specifications for permitting new mobility including but not limited to equity and inclusion. The main deliverables are to be made available along with educational materials on a project website, appended to the City's existing Complete Streets page.

Responsible agency: DTS  
Project schedule: This work element does not currently have funds obligated. The project schedule will be set at the time funds are obligated.

## **Resiliency Studies**

- **Planning for Improved Resilience to Coastal Hazards through Green Infrastructure**

The State of Hawaii through the Department of Land and Natural Resources (DLNR) in coordination with the Hawai'i Climate Change Mitigation and Adaptation Commission, proposes a feasibility study of a green infrastructure project in the Punalu'u Beach Park area that will help to protect Kamehameha Highway from flooding and erosion, and improve resiliency with regard to rising sea levels and increasing coastal storms, both in frequency and intensity.

This study will assess project alternatives, while considering critical coastal and marine geotechnical and biological surveys, agency and community input, and produce a report that informs the next phase of the potential project.

Responsible agency: Department of Land and Natural Resources

Project schedule: This work element does not currently have funds obligated. OahuMPO and DLNR are working to develop an MOA. The project schedule will be set at the time funds are obligated and the MOA executed.

- **Energy Conservation & Emissions Reduction Plan (203.18)**

This study will provide an energy conservation and emissions reduction plan for city transportation systems which shall include methods to meet city and state commitments to reduce greenhouse gas emissions and transition to sources of clean energy. An interdepartmental working group will be established to: 1) ensure departmental consistency regarding GHG reduction and clean energy goals, 2) develop a preliminary recommended framework for analyzing transportation projects and improvements with energy implications, and 3) develop a number of specific energy conservation strategies to reduce transportation-related emissions.

Responsible Agency: City and County of Honolulu Office of Climate Change, Sustainability and Resiliency

Project schedule: This work element does not currently have funds obligated. The project schedule will be set at the time funds are obligated.

### **Mobility Patterns**

- **Autonomous Vehicle Planning Study (203.18-20)**

This study aims to develop techniques to simulate the long-term impacts of shared or autonomous vehicle (SAV) deployments and other new mobility technology within the regional Travel Demand Forecasting Model (TDFM). The model results will be used to assess the potential impacts of SAV and new mobility technologies on transit ridership and the overall transportation system. The modeling tools developed by this project will improve HART and the OahuMPO's ability to plan for both shared and privately-owned AV scenarios, and will also inform the development of 2050 Oahu Regional Transportation Plan update.

Responsible agency: HART

Project schedule: July 2019- June 2023

- **Alternative Deployment of Autonomous Vehicle Technology Scenarios Planning Study**

This study aims to model scenarios for autonomous vehicle technology deployment to understand their potential impacts on access to HRT stations. The scenarios will be built from the regional Travel Demand Forecasting Model that is currently used to forecast rail ridership. These scenarios will capture a range of possible outcomes with respect to modal choice, access to rail stations, road network performance, transit performance relative to different technology scenarios and different ownership scenarios (public vs. private ownership, shared vs. individual use).

Responsible agency: HART

Project schedule: July 2020 – June 2023

- **Dillingham Corridor Mobility Data Planning Study**

This study aims to use mobile device data and a community "data Charrette" to study mobility patterns in the Dillingham corridor where the Honolulu Rail Transit Project will be doing intensive construction work over the next several years. The study will utilize cell phone data to highlight

local mobility patterns. Data visualizations will be incorporated into community processes to further investigate the mobility needs and opportunities along the corridor.

Responsible agency: HART

Project schedule: July 2020 – June 2023

### **New Work Elements – Task 3**

- **Oahu Green Stormwater Infrastructure (GSI) Plan**

The City and County of Honolulu's (City) Department of Facility Maintenance (DFM) is proposing to conduct a comprehensive Green Stormwater Infrastructure (GSI) Plan for the Island of Oahu to help identify, plan, analyze and estimate the overall large-scale implementation and maintenance of GSI throughout the island. GSI has been widely documented to be a cost-effective, resilient approach to managing storm water impacts generated by streets, roadways and highways through the use of vegetation, soils, sand, gravel and other elements to restore some of the natural hydrological processes in order to create healthier urban environments. GSI allows for a multitude of benefits including the ability to effectively manage storm water runoff that is generated when rainfall comes into contact with roadways and other transportation related infrastructure, along with encouraging the replenishment of ground water supplies and provides sustainable long term social and economic benefits.

Objectives:

- To develop an overall strategy, analysis, mapping and work flow process for identifying opportunities for prioritizing and promoting GSI implementation within City right of way
- Create a collaborative and sustainable process for data sharing, integrated with the City's Department of Transportation Services Complete Streets program, City Department of Facility Maintenance NPDES MS4 storm water permit program, Oahu Resiliency and Sustainable Communities program(s)
- Engage community members, key stakeholders in understanding the importance of GSI in their neighborhoods and how they can be a part of the solution
- Create partnerships and develop opportunities to leverage resources in all aspects including planning, designing, installing and maintaining GSI to allow for increased participation and involvement

Deliverables:

- GSI Strategic Plan
- Communications and Outreach Plan
- Regional GSI Model Analysis Prioritization and Implementation Plan
- Asset Management Strategy
- Workforce Development/Partnership Opportunities Report
- Community Outreach and Stakeholder Engagement Summary Report
- Draft and Final GSI Report

Responsible agency: Department of Facilities Maintenance

Project schedule: To be determined upon obligation of the funds

### Budget Summary – Task 3

Work Element Description	Cost Category	Agency	OWP FY2021 Activity		Funding Request for OWP FY2022			
			Budget	Balance as of 12/31/20	FHWA-PL	FTA 5303(d)	Local Match	Total
Transportation Improvement Program	Staff Time	OahuMPO	\$32,000	\$16,459	\$30,843	-	\$7,711	\$38,554
Transportation Alternatives Program Coordination	Staff Time	OahuMPO	\$15,000	\$12,901	\$6,606	-	\$1,651	\$8,257
Farrington Highway Makaha Beach Park Realignment Feasibility Study	Consultant	OahuMPO	N/A	N/A	<b>FUNDED IN OWP FY 2015</b>			
Farrington Highway Makaha Beach Park Realignment Feasibility Study	Staff Time	OahuMPO	N/A	N/A	<b>FUNDED IN OWP FY 2015</b>			
Review and Update of Planned Rights of Way for Existing Streets	Subrecipient	DTS	\$500,000	\$500,000	<b>FUNDED IN OWP FY 2018</b>			
Oahu Mass Transit Joint Feasibility Study	Subrecipient	DTS	\$302,400	\$302,400	<b>FUNDED IN OWP FY 2018</b>			
Energy Conservation & Emissions Reduction Plan	Subrecipient	OCCSR	\$500,000	\$500,000	<b>PROGRAMMED, NOT OBLIGATED</b>			
Waikiki Loading Zone Management Study	Subrecipient	DTS	\$235,000	\$235,000	<b>PROGRAMMED, NOT OBLIGATED</b>			
Ala Moana Transit Plaza Alternatives Analysis	Subrecipient	DTS	\$500,000	\$449,176	<b>FUNDED IN OWP FY 2019</b>			
Multi-Modal Transit Asset Management Plan - Phase 1	Subrecipient	DTS	\$250,000	\$200,502	<b>FUNDED IN OWP FY 2019</b>			
Kapolei Maintenance Facility & Transit Center Alternatives Analysis	Subrecipient	DTS	\$500,000	\$446,161	<b>FUNDED IN OWP FY 2019</b>			
Royal Kunia Public Transit and Day Care Facility Master Plan	Subrecipient	DTS	\$500,000	\$500,000	<b>PROGRAMMED, NOT OBLIGATED</b>			
TDM Plan	Subrecipient	DTS	\$535,000	\$535,000	<b>FUNDED IN OWP FY 2020</b>			
Vision Zero Action Plan	Subrecipient	DTS	\$2,000,000	\$2,000,000	<b>FUNDED IN OWP FY 2020</b>			
New Mobility Plan	Subrecipient	DTS	\$565,000	\$565,000	<b>PROGRAMMED, NOT OBLIGATED</b>			
Autonomous Vehicle Planning Study	Subrecipient	HART	\$50,000	\$50,000	<b>FUNDED IN OWP FY 2020</b>			

Work Element Description	Cost Category	Agency	Budget	Balance as of 12/31/20	FHWA-PL	FTA 5303(d)	Local Match	Total
Planning for Improved Resilience to Coastal Hazards through Green Infrastructure	Subrecipient	DLNR	\$250,000	\$250,000	PROGRAMMED IN FY2021			
Multi-Modal Mobility Hub Planning for O'ahu	Subrecipient	DLNR	\$125,000	\$125,000	PROGRAMMED IN FY2021			
Alternative Deployment of AV Technology Scenarios Planning	Subrecipient	HART	\$50,000	\$50,000	PROGRAMMED IN FY2021			
Dillingham Corridor Mobility Data Planning Study	Subrecipient	HART	\$100,000	\$100,000	PROGRAMMED IN FY2021			
Multi-Modal Transit Asset Management Plan - Phase 2	Subrecipient	DTS	\$950,000	\$950,000	PROGRAMMED IN FY2021			
Oahu Green Stormwater Infrastructure (GSI) Plan	Subrecipient	DTS/DFM	N/A	N/A	\$400,000	\$0	\$100,000	\$500,000

**TASK 3 TOTALS**

**\$437,449                      \$0                      \$109,362                      \$546,811**

Public Review

## Task 4: Long Range Planning

### Purpose

To develop, document, amend, and publish the Oahu Regional Transportation Plan (ORTP) to meet the needs of the metropolitan area for a 20-year horizon, in accordance with Federal, state, and local regulations. Task 4 also includes special studies with a longer than 10 year planning horizon.

### Ongoing Work Elements

- **Oahu Regional Transportation Plan**

The Oahu Regional Transportation Plan (ORTP) is the federally required deliverable supported by this Work Element. It is a forecast and assessment of anticipated project and programs that are planned to be funded during the 20 year planning horizon. The plan assists in educating decision-makers about the options that are available to improve the transportation system and how they address mobility needs and ensure that programming is based on a full understanding of a policy framework, the role of data, and technical analyses.<sup>7</sup> An update to the ORTP is required every five years, with the next one due by April 2021.

Included in the ORTP is Transportation Revenue Forecasting & Alternative Revenue Exploration. This task forecasts the "reasonably expected" future revenues for transportation for the State and the City from existing sources, under existing policies. It also identifies and evaluates various potential alternative transportation funding sources.

Responsible agency: OahuMPO  
Project schedule: July 1, 2021 – June 30, 2022

- **Congestion Management Process Update**

The Congestion Management Process (CMP) provides for safe and effective integrated management and operation of the multimodal transportation system. Per the 2018 Federal Certification Review, the revised CMP will include procedures to implement CMP outcomes and will be taken into consideration during project selection for the ORTP and TIP. The CMP will also include performance measures that demonstrate the effectiveness of congestion reduction strategies.

Responsible Agency: OahuMPO  
Project schedule: July 1, 2021 – June 30, 2022

### New Work Elements – Task 4

- **Educational Framework for Youth Engagement in Oahu's Transportation Planning**

This study aims to develop an educational framework for engaging K-12 students in transportation planning on Oahu from their classrooms. The results will improve the OahuMPO's ability to reach and engage this demographic in regular, meaningful dialog regarding transportation needs and desires, while also informing the development of the 2050 Oahu Regional Transportation Plan update.

Deliverables:

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<sup>7</sup> See NCHRP Report 591, *Factors that support the Planning-Programming Linkage*, (Transportation Research Board), Table 6 on page 27 and section 5.2.4(14) on page 60.

- o Project Kick-Off and Project Plan
- o Instructional Resources
- o Pilot Summary
- o Engagement Guide
- o Final Engagement Summary Report

Responsible agency: University of Hawaii Manoa Uehiro Academy for Philosophy and Ethics in Education

Project schedule: To be determined upon obligation of the funds

### Budget Summary – Task 4

Work Element Description	Cost Category	Agency	OWP FY2021 Activity		Funding Request for OWP FY2022			
			FY2021 Budget	Balance as of 12/31/20	FHWA-PL	FTA 5303(d)	Local Match	Total
Oahu Regional Transportation Plan	Staff Time	OahuMPO	\$142,000	\$59,451	\$136,919	-	\$34,230	\$171,149
Congestion Management Process Update	Staff Time	OahuMPO	\$21,000	-\$19,654	\$7,958	-	\$1,989	\$9,947
ORTP - Technical Support	Consultant	OahuMPO	\$300,000	\$95,000	\$0	-	\$0	
ORTP - Graphic Design	Consultant	OahuMPO	\$61,845	\$38,155	\$0	-	\$0	
ORTP - Outreach Support	Consultant	OahuMPO	N/A	N/A	\$80,000	-	\$20,000	\$100,000
Educational Framework for Youth Engagement in Oahu's Transportation Planning	Subrecipient	UH Manoa	N/A	N/A	\$170,568		\$42,642	\$213,210
<b>TASK 4 TOTALS</b>					<b>\$395,445</b>		<b>\$98,861</b>	<b>\$494,306</b>

## Budget Summary by Task and by Cost Category

Table 1 summarizes programmed expenditures by task, with the breakdown of Federal and non-Federal funding sources.

**Table 1. OWP FY2022 Budget Summary by Task**

Task	Title	FHWA-PL	FTA 5305(d)	Non-Federal Match Subrecipient Studies/Projects	Non-Federal Match Member Dues	Total
1	MPO Management & Program Administration	\$666,164	\$295,727		\$240,473	\$1,202,364
2	Data Development & Maintenance	\$738,015		\$117,000	\$67,504	\$922,519
3	Short Range Planning	\$437,449		\$100,000	\$9,362	\$546,811
4	Long Range Planning	\$395,445		\$42,642	\$56,219	\$494,306
TOTAL		\$2,237,073	\$295,727	\$259,642	\$373,558	\$3,166,000

Table 2 shows the OWY FY22 request for programming according to cost category.

**Table 2. OWP FY2022 Budget Summary by Cost Category**

Cost Category	Funding Request for OWP FY2022			
	FHWA-PL	FTA 5303(d)	Local Match	Total
<b>OahuMPO</b>				
Staff Time	\$810,505	\$159,727	\$242,558	\$1,212,790
Consultant	\$292,000	-	\$73,000	\$365,000
Overhead		\$136,000	\$34,000	\$170,000
Travel	\$16,000	-	\$4,000	\$20,000
Data	\$80,000		\$20,000	\$100,000
SUBTOTAL	\$1,198,505	\$295,727	\$373,558	\$1,867,790
<b>Subrecipient</b>				
Subrecipient - DTS	\$868,000		\$217,000	\$1,085,000
Subrecipient - UH	\$170,568		\$42,642	\$213,210
SUBTOTAL	\$1,038,568		\$259,642	\$1,298,210

## Summary of Funding and Programmed Expenditures

Table 3 shows the total anticipated funding sources and programmed expenditures for FY 2021 OWP. Expected funding sources includes the dues that OahuMPO participating agencies must contribute to leverage the Federal funds programmed in that year. OahuMPO's FY 2021 OWP totals ~\$3.7 million; funding is available for the entire program. The "Difference" shows that there is an available pool of unobligated funds from which OahuMPO can draw when additional local match is available.

**Table 3. Summary of Estimated FY 2022 Revenues and Programmed Expenditures (SUBJECT TO CHANGE)**

Description	FHWA-PL	FTA 5305(d)	Member Agency Dues	Subrecipient Match	Total
<b>FY2021 Expected Funding Sources</b>	\$1,627,839	\$295,727	\$375,000	\$259,642	\$2,558,208
<b>Estimated Unobligated Balance</b>	\$4,588,215	\$0	\$0	\$0	\$4,588,215
<b>Total Available Funding</b>	\$6,216,054	\$295,727	\$375,000	\$259,642	\$7,146,423
<b>Programmed Obligations</b>	\$2,237,073	\$295,727	\$373,558	\$259,642	\$3,166,000
<b>Difference</b>	\$3,978,981	\$0	\$1,442	\$0	\$3,980,423

## Appendix A: Abbreviations

<b>Abbreviation</b>	<b>Definition</b>
CAC	Citizen Advisory Committee (OahuMPO)
CFR	Code of Federal Regulations
DBE	Disadvantaged Business Enterprise
DBEDT	Department of Business, Economic Development, and Tourism (State)
DDC	Department of Design and Construction (City)
DFM	Department of Facilities Maintenance (City)
DOH	Department of Health (State)
DPP	Department of Planning and Permitting (City)
DTS	Department of Transportation Services (City)
FAA	Federal Aviation Administration
FAST Act	Fixing America's Surface Transportation Act
FFY	Federal Fiscal Year (October 1 <sup>st</sup> -September 30 <sup>th</sup> )
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FY	State of Hawaii Fiscal Year (July 1 <sup>st</sup> -June 30 <sup>th</sup> )
HART	Honolulu Authority for Rapid Transportation
HDOT	Department of Transportation (State)
ID	Identification Number
MAP-21	Moving Ahead for Progress in the Twenty-First Century
MARAD	Federal Maritime Administration
OahuMPO	Oahu Metropolitan Planning Organization
OPP	OahuMPO Participation Plan
OP	Office of Planning (State)
ORTP	Oahu Regional Transportation Plan
OWP	Overall Work Program
PL	Planning Funds (FHWA)
SB	Senate Bill
STBG TA	Surface Transportation Block Grant Transportation Alternatives
T6/EJ	Title VI and Environmental Justice
TAC	Technical Advisory Committee (OahuMPO)
TDFM	Travel Demand Forecasting Model
TDM	Transportation Demand Management
TIP	Transportation Improvement Program
US	United States
USDOT	United States Department of Transportation (Federal)
WE	Work Element
§	Section

## Appendix B: Candidate Project Evaluation and Selection

All candidate projects submitted for consideration were evaluated for possible funding through OahuMPO. OahuMPO received four candidate proposals from the Citizen Advisory Committee; and four proposals from OahuMPO member agencies.

The candidate projects are described below and presented in prioritized order along with a short discussion and evaluation. The evaluation tables list which FAST Act Planning Factor(s) and ORTP Goal(s) are addressed by the proposed study. Refer to page 39-40 in Appendix D for the full list of FAST Act Planning Factors and ORTP goals.

It is important to note that this prioritization process informs the selection process by OahuMPO and its member agencies but does not determine selection. OahuMPO and its member agencies must also consider availability of local match, agency/department workloads, annual funding constraints, duplication of on-going or previous studies, and other competing planning priorities.

**Priority One Candidate Studies** – *Studies that fulfill requirements under metropolitan transportation regulations set forth in 23 CFR 450 subpart C and 23 CR 420.*

### Educational Framework for Youth Engagement in Oahu’s Transportation Planning

This study aims to develop an educational framework for engaging K-12 students in transportation planning on Oahu from their classrooms. The results will improve the OahuMPO’s ability to reach and engage this demographic in regular, meaningful dialog regarding transportation needs and desires, while also informing the development of the 2050 Oahu Regional Transportation Plan update.

OahuMPO and agency partners placed this work element in priority one because it will enable OahuMPO to seek out and consider the needs of those traditionally underserved by the existing transportation system, as required by 23 CFR 450.316.

The Department of Transportation Services noted that “DTS supports the intent of this proposed study as it aims to engage students in transportation planning and development of the 2050 Oahu Regional Transportation Plan (ORTP) update. In the past, DTS has experienced success in this area through its work with Ala Wai Elementary and Farrington High School.”

Evaluation:

	1	2	3	4	5	6	7	8	9	10
Federal Planning Factors Addressed		X								
ORTP 2040 Goals Addressed					X			X		

### Active Transportation Monitoring Data Phase III

This project will collect and manage active transportation data, which are first steps toward establishing an Island Wide Active Transportation Monitoring Program. This project will allow for the monitoring of regional trends in bicycle and pedestrian travel patterns.

The data produced by this project will be shared with regional stakeholders and can be used in the calibration and validation of the TDFM, and in the prioritization of funding for bicycle and pedestrian improvement projects.

OahuMPO and agency partners placed this work element in priority level one because it will provide data that may be used to inform decision making for the ORTP and to validate the Travel Demand Forecasting Model, both required MPO work products. The ORTP currently does not have pedestrian and bicycle data, due to lack of data.

The collection of pedestrian and bicycle data will help to improve our multi-modal transportation facilities and operations by helping to identifying more appropriate improvements.

Evaluation:

	1	2	3	4	5	6	7	8	9	10
Federal Planning Factors Addressed		X	X			X				
ORTP 2040 Goals Addressed	X	X						X		

**Priority Two Candidate Studies** – Studies that are necessary to enable the OahuMPO and its participating agencies to support the metropolitan transportation planning process or fulfill other Federal, State, or City regulations applicable to this process.

**Oahu Green Stormwater Infrastructure (GSI) Plan**

The City and County of Honolulu's (City) Department of Facility Maintenance (DFM) is proposing to conduct a comprehensive Green Stormwater Infrastructure (GSI) Plan for the Island of Oahu to help identify, plan, analyze and estimate the overall large-scale implementation and maintenance of GSI throughout the island. GSI has been widely documented to be a cost-effective, resilient approach to managing storm water impacts generated by streets, roadways and highways through the use of vegetation, soils, sand, gravel and other elements to restore some of the natural hydrological processes in order to create healthier urban environments. GSI allows for a multitude of benefits including the ability to effectively manage storm water runoff that is generated when rainfall comes into contact with roadways and other transportation related infrastructure, along with encouraging the replenishment of ground water supplies and provides sustainable long term social and economic benefits.

OahuMPO and agency partners placed this work element in priority level two because it helps to fulfill multiple Federal, State, and City regulations.

Evaluation:

	1	2	3	4	5	6	7	8	9	10
Federal Planning Factors Addressed		X							X	
ORTP 2040 Goals Addressed				X						

**Web-Based Planning Tools for Complete Streets and Transit**

The objective is to provide tools for staff to perform planning functions for Complete Streets projects and transit improvements in-house thereby reducing dependence on consultant contracts, reducing planning and design costs, and increasing project delivery.

This project will greatly reduce HART and OahuMPO's consultant labor costs by automating tasks that must currently be done manually. It has a Title VI and Environmental Analysis tool and is able to create GTSF outputs for the Travel Demand Forecasting Model.

OahuMPO and agency placed this work element in priority level one because it can provide data to be incorporated into OahuMPO's Travel Demand Forecasting Model. OahuMPO will work with DTS to maximize the benefit to the model of OahuMPO programming and funding this work element.

Evaluation:

	1	2	3	4	5	6	7	8	9	10
Federal Planning Factors Addressed										
ORTP 2040 Goals Addressed										

**Priority Three Candidate Studies** – Studies that support planning efforts for projects identified in the Oahu Regional Transportation Plan (ORTP).

**West O’ahu Transportation Study**

The study will provide a more comprehensive study of congestion for the area west of Pearl City that could lead to expedited enhancements in the road arterial network for West O’ahu. It also will evaluate road development relative to the ridership of the Honolulu rail project.

The study will cover the area from Waipi’o to the western end of the H-1 freeway. The study will include examining the Makakilo Drive Extension (MDE) to the H-1 North-South Interchange, widening Farrington Highway west of Waipahu, widening of Fort Barrette Road, adding lanes on H-1 and extending the Zipper lane westward, among other potential solutions and strategies to mitigate congestion.

The Hawaii DOT provided the following feedback on this proposal:

“The HDOT completed the H-1 Corridor Study in 2016. It provided recommendations for the H-1 corridor to serve current and future mobility, reduce congestion, improve safety, and ensure movement of people and goods. The study area included the West Oahu area of Pearl City through Makakilo. The challenge with implementation of the recommendations is limited resources, included funding. The needs of the State Highway System outweigh our existing resources. The priority for implementing projects has been identified as safety and system preservation.”

Evaluation:

	1	2	3	4	5	6	7	8	9	10
Federal Planning Factors Addressed							X			
ORTP 2040 Goals Addressed	X									

**North Shore (Comprehensive) Corridor Study**

The Primary Objective of this remains that traditional land-use data informed by sea level rise, erosion, climate change and the complete dependence of the residents and tourists of Oahu on this only thru road from KAHALU’U to HALEIWA results in a Plan for Kamehameha Highway Route #83 to be a functionally interconnected vehicular road thru Ka’a’awa.

The Hawaii DOT provided the following feedback on this proposal:

“The HOOT Highways Division is undertaking efforts to evaluate vulnerabilities of our State Highway System to sea level rise, coastal erosion, and other impacts of climate change and extreme weather. These efforts will guide investment in our State Highway System as we work to address existing issues and increase the resiliency of our State Highway System. Developing a long-term strategic plan to address existing issues and increase the resiliency of our State Highway System will require collaboration with the planning agencies and coastal managers statewide. Further clarification and-coordination is requested for "NO-ROAD" option to determine its impacts to the highway system.”

Evaluation:

	1	2	3	4	5	6	7	8	9	10
Federal Planning Factors Addressed	X								X	
ORTP 2040 Goals Addressed		X								

**Priority Four Candidate Studies:** Studies that support planning efforts consistent with the direction set forth in master plans or other planning documents adopted by the OahuMPO, the State, and/or the City.

None

**Priority Five Candidate Studies:** Studies that support planning efforts to enable the State and the City to meet other needs that support Oahu's integrated, multimodal transportation system.

None

**Proposed projects already addressed in ongoing projects** – The following projects were not evaluated because they are duplicates of previous work or can be incorporated into ongoing planning efforts.

None

**Proposed projects ineligible for funding** - The following projects were not evaluated because they are not eligible for the type of funding programmed in the OWP.

None

## Appendix D: Overview and Process

### OahuMPO Structure

The process of developing the annual OWP entails a closely coordinated effort among the OahuMPO and its participating agencies: The State Department of Transportation (HDOT), the City and County of Honolulu Department of Transportation Services (DTS), and the Honolulu Authority for Rapid Transportation (HART).

A diagram of the OahuMPO's organization is shown in Figure 1. The current *Comprehensive Agreement*<sup>8</sup> describing the specific roles and responsibilities of the OahuMPO and its participating agencies, was signed by the Governor, the City Council Chair (on behalf of the City as the transit operator), and the OahuMPO Policy Board Chair in 2015.

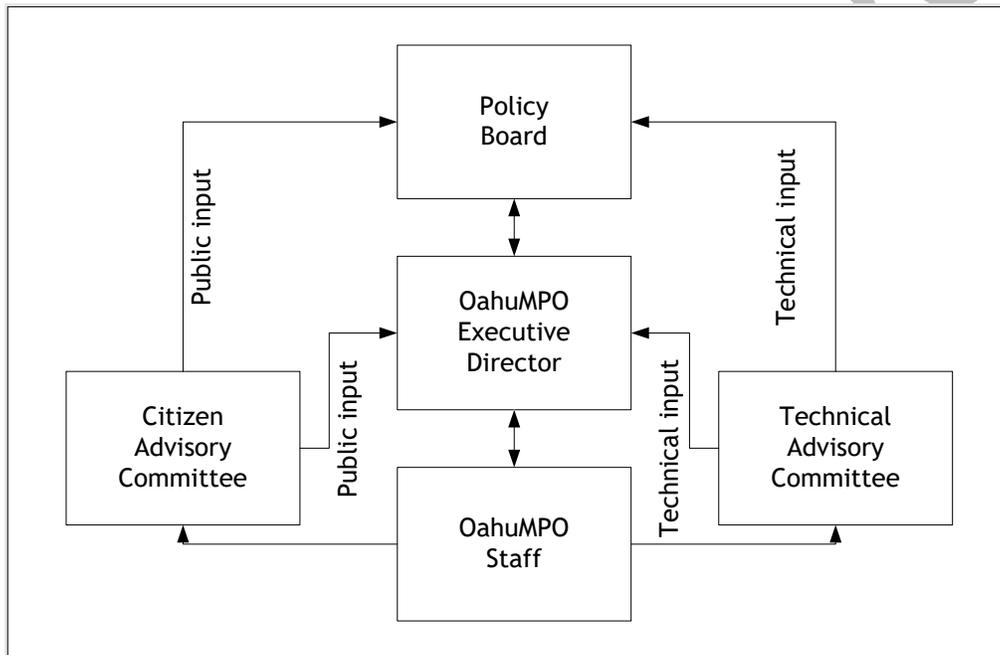


Figure 1. OahuMPO organizational components and information flow.

<sup>8</sup> [https://www.oahumpo.org/?wpfb\\_dl=1523](https://www.oahumpo.org/?wpfb_dl=1523)

## Oversight and Committees

As stated in Federal Regulations, the Policy Board (PB) is the MPO and, as such the decision-making body of the OahuMPO. The Technical Advisory Committee (TAC) provides technical input to both the PB and the OahuMPO Executive Director to carry out the continuing, cooperative, and comprehensive multimodal transportation planning process for OahuMPO. Table 1 shows voting and non-voting membership in the TAC and the PB.

**Table 1: TAC and PB Membership**

Policy Board	
Voting	Non-Voting
Two State Senators Two State Representatives Three City Councilmembers The HDOT Director The DTS Director The DPP Director The HART Director	FHWA Hawaii Division Office Administrator The Director of DOH The Director of State Office of Planning
Technical Advisory Committee	
Voting	Non-Voting
Two staff members from HDOT One staff member from DBEDT One staff member from OP Two staff members from DTS Two staff members from DPP Two staff members from HART	One representative from HTA One representative from FHWA One representative from FAA One representative from FTA One staff member from City DDC One staff member from City DFM

The **Citizen Advisory Committee (CAC)** is the primary vehicle for individuals to provide public input to the Policy Board and the OahuMPO Executive Director on Oahu's transportation planning needs and processes. At present, the CAC<sup>9</sup> consists of representatives from 47 community associations, neighborhood boards, professional associations, businesses, private transportation providers, a transportation management association, developers, and other interested parties. Activities of the CAC are organized based on the *OahuMPO Participation Plan (OPP)*,<sup>10</sup> which is compliant with the Federal requirements.<sup>11</sup>

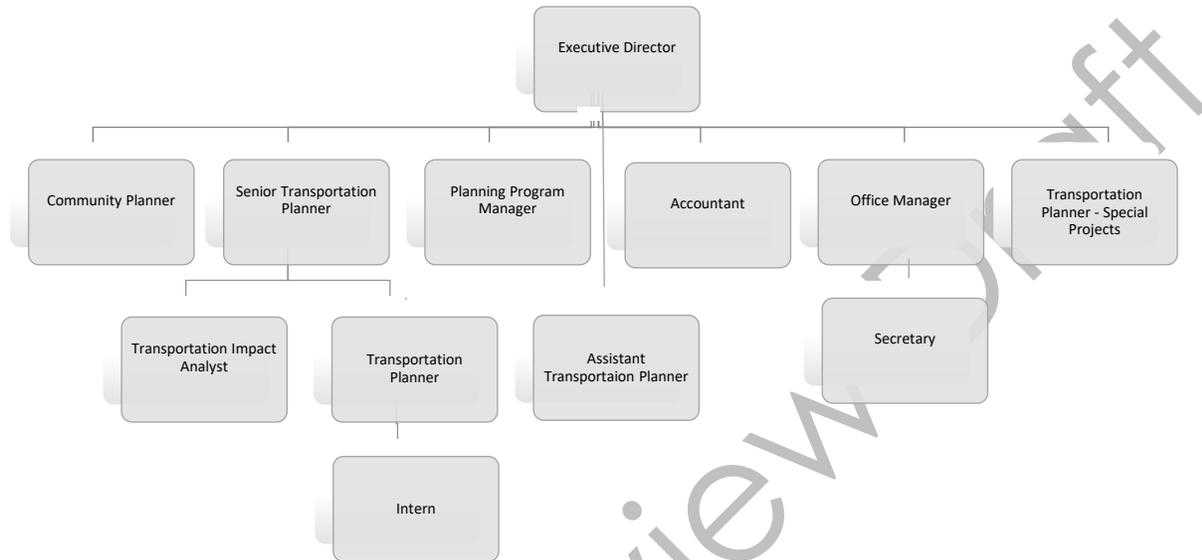
<sup>9</sup> See <http://www.oahumpo.org/about-mpo/committees/citizen-advisory-committee/>

<sup>10</sup> See [http://www.oahumpo.org/ParticipationPlan2015\\_0630](http://www.oahumpo.org/ParticipationPlan2015_0630)

<sup>11</sup> 23 CFR 450.316.

## OahuMPO Staff Structure and Pay Ranges

One of the biggest expenses for OahuMPO is staff. The Policy Board approves staff positions and pay ranges. The current, staffing plan for the agency includes ten full-time equivalent (FTE) staff members, one 75% FTE Secretary, and an intern.



**Figure 2. OahuMPO Staffing Structure**

Brief descriptions of job responsibilities and the approved pay ranges for each position are as follows:

- **Executive Director (\$80,000 - \$124,000):** responsible for the implementation of the metropolitan transportation planning process; prepares, updates, clarifies operational policies and procedures; hires OahuMPO staff and manages day-to-day operations; monitors Administrative Supplemental Agreement; oversees personnel and human resource matters; represents the Policy Board in meetings, and is the Policy Board coordinator.
- **Senior Transportation Planner (\$75,000-\$106,000):** responsible for the ORTP process as well as overseeing modeling work and products completed internally or by participating agencies or consultants; manages and completes various corridor and sub-area studies led by the OahuMPO; supervises and coordinates the work of the Transportation Planner and Transportation Impact Analyst.
- **Transportation Planner (\$60,000 – \$90,000)** responsible for assisting the Senior Transportation Planner in the development and maintenance of the ORTP; manages the completion of various corridor and sub-area studies led by OahuMPO.
- **Transportation Impact Analyst (\$60,000 – \$90,000):** responsible for development and maintenance of the Transportation Improvement Program; maintains data bases and communicates with participating agencies regarding transportation data; monitors transportation system performance, collects data and analyses; monitors performance measures and targets and recommends updates as needed; maintains and implements the agency's performance-based planning and programming process; maintains and implements the Transportation Alternatives Program, and performs the modeling function.
- **Planning Program Manager (\$65,000 - \$95,000):** responsible for the OWP process as well as preparing OahuMPO budgets; responsible for monitoring and assisting Federal grant subrecipients; serves on steering committees for participating agency projects; provides intergovernmental staff interface to carry out the metropolitan transportation planning process; is the coordinator for the Technical Advisory Committee.

- **Community Planner (\$60,000 - \$90,000):** responsible for developing, maintaining, and implementing the Public Participation Plan; is the coordinator for the Citizen Advisory Committee; monitors Title VI & Environmental Justice issues and completes reports as needed; maintains website and social media resources; serves as OahuMPO's customer service representative to the public.
- **Assistant Transportation Planner (\$55,000 – \$78,000)** responsible for assisting the Community Planner in the development and maintenance of the Public Participation Plan, community outreach, social media, and the Citizens Advisory Committee and any of their associated committees and permitted interaction groups; assists the other OahuMPO Planners with the community outreach of OahuMPO projects and plans.
- **Accountant (\$57,000 - \$85,500):** responsible for all financial and accounting matters related to the OahuMPO, including general accounting functions and financial management/reporting; monitors and maintains the Finance Supplemental Agreement; also serves as procurement specialist for the agency, and maintains contract files.
- **Office Manager (\$55,000 - \$88,500):** responsible for overseeing day-to-day administrative functions of the OahuMPO office, including filing, copying, mailing, meeting coordination, posting meeting notices, preparing Policy Board meeting minutes, and completing the annual OIP, PIA, Form 7, and other operation related reports; assists the Executive Director in developing policies and procedures consistent with applicable State and Federal laws and regulations; acts as coordinator to personnel department; coordinates the Policy Board in conjunction with the Executive Director; responsible for the maintenance off office equipment leases; assists with the maintenance of the website; and supervises the Secretary.
- **Secretary (\$47,500-\$68,000):** responsible for assisting the Office Manager with routine typing, filing, meeting coordination, meeting material mailings, development of meeting minutes, answering phones, clerical support to the Executive Director and other staff, and other duties as needed.
- **Transportation Planner – Special Projects (\$60,000 – \$90,000):** responsible for the development of a Strategic Plan and the coordination of revisions needed to the supplemental agreements between OahuMPO and partner agencies. Provides support to the Executive Director on technical requirements of the 3-C planning process and the follow-up of the federal certification review.
- **Transportation and Community Planning Intern (\$20/hour - \$24/hour):** responsible for assisting the Transportation Planner with the preparation and development of the ORTP, technical assistance with any corridor and sub-area studies led by OahuMPO, assisting the Community Planner in the coordination and execution of Citizen Advisory Committee meetings, In addition, the intern will also be assisting with community engagement for the ORTP and any other sub-area and corridor studies led by OahuMPO.

### Overall Work Program Development

The development of the OWP begins with input from the CAC and the drafting of potential studies or work elements by the OahuMPO and its participating agencies. In addition to being used to develop and promote transportation programs and policies, and to provide guidance for capital improvement projects, these work elements may respond to requests made by the public, State Legislature, City Council, or a Federal agency.

**Table 2. Approximate OWP Development Timeline**

Aug – Sept	OahuMPO staff solicits early input regarding candidate work elements (WEs); and solicits lists of planning studies from other agencies for regional planning coordination.
Sept – Oct	OahuMPO staff provides the candidate WEs to the Policy Board members and participating agencies; issues a call for candidate WEs to the Policy Board members and participating agencies
Nov – Dec	OahuMPO staff receives progress reports from all previously obligated projects and evaluate; accounts for previously obligated WEs and deducts staff time or funding from available resources as warranted; prioritizes all first-time candidate work elements; develops a first-draft list of WE proposed for programming in the OWP; presents the first-draft list to the CAC, TAC, and the Policy Board for comments and feedback; <i>this is the last opportunity for new candidate work elements to be identified for evaluation and possible inclusion in the OWP</i>

Jan-Mar	OahuMPO staff considers the feedback and comments received on the first-draft list of WEs; develops the Public Review Draft of the OWP; and presents Public Review Draft to the TAC and CAC for review and comment prior to releasing it for public and intergovernmental review.
April	OahuMPO staff releases the Public-Review Draft OWP for 45 days of public and intergovernmental review and comment; notifies CAC, TAC, Policy Board, intergovernmental review list, and interested parties of the release of draft OWP; and posts Public Review Draft to the OahuMPO website and provides instructions for submitting comments.
April-May	OahuMPO staff considers comments received on the Public Review Draft; documents all comments received and their final disposition in the OWP; and develops Final Draft OWP.
May	OahuMPO staff presents Final Draft OWP to the TAC and CAC for recommendation to the Policy Board; and presents the Final Draft OWP to the Policy Board along with recommendations of the advisory committees.
June – Sept	OahuMPO staff submits Policy Board endorsed OWP to FHWA/FTA for approval; and sends invoices to participating agencies for annual dues (i.e., local match). HDOT staff: submits grant applications to appropriate Federal agencies Federal agencies: award grants

The OahuMPO coordinates the review of the draft work elements by staff members of the participating agencies, CAC, the public, TAC, and Federal agencies (USDOT: FTA, FHWA, FAA, Federal Maritime Administration (MARAD); Environmental Protection Agency; and Department of Housing and Urban Development), as well as an intergovernmental review. The OWP is then submitted to the Policy Board for its endorsement prior to its submittal for FHWA and FTA approval.

### **Planning Priorities**

The OahuMPO uses the following priorities to evaluate projects for funding through the OWP:

1. Projects that fulfill requirements under metropolitan transportation regulations set forth in 23 Code of Federal Regulations (CFR) 450 Subpart C and 23 CFR 420.
2. Projects which are necessary to enable the OahuMPO and its participating agencies to support the metropolitan transportation planning process or fulfill other Federal, State, or City regulations applicable to this process.
3. Projects that support planning efforts for projects identified in the Oahu Regional Transportation Plan (ORTP).
4. Projects that support planning efforts consistent with the direction set forth in master plans or other planning documents adopted by the OahuMPO, the State, and/or the City.
5. Projects that support planning efforts to enable the State and the City to meet other needs that support Oahu's integrated, multimodal transportation system.

### **Consideration of the FAST Act Planning Factors**

Federal regulations require that the metropolitan planning process consider projects and strategies that address ten planning factors below<sup>12</sup> which are part of the framework used to evaluate Oahu's transportation planning program.

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
2. Increase the safety of the transportation system for motorized and non-motorized users.
3. Increase the security<sup>13</sup> of the transportation system for motorized and non-motorized users.
4. Increase accessibility and mobility of people and freight.

<sup>12</sup> 23 CFR 450.306(a) and (b).

<sup>13</sup> Congressional intent is that "security," in this context, means both infrastructure protection and emergency preparedness.

5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
7. Promote efficient system management and operation.
8. Emphasize the preservation of the existing transportation system.
9. Improve resiliency and reliability of the transportation system and reduce or mitigate storm water impacts of surface transportation.
10. Enhance travel and tourism.

### **Vision and Goals of the Oahu Regional Transportation Plan 2040**

#### **ORTP 2040 Vision**

*"In 2040, Oahu will be a place where we will have efficient, well-maintained, safe, secure, convenient, appropriate, and economical choices in getting from place to place. Our transportation system will move us and the goods we use in a manner that supports the island's high quality of life, natural beauty, economic vitality, and land use policies by supporting appropriate density development and avoiding urban sprawl. This system will promote energy conservation and economic sustainability as well as the protection of our ports of entry, preparation for emergency situations, and changes in global climate patterns."*

#### **Goals**

1. **Transportation Facilities** - Provide an inclusive, multi-modal transport system whose connectedness provides efficient means for users desiring to move about this island by bicycle, freight carrier, pedestrian facility, road, transit service, and intermodal connectors
2. **Transportation Operations and Services** - Develop, operate, maintain, and improve Oahu's island wide transportation system to ensure the efficient, dependable, safe, secure, convenient, and economical movement of people and goods
3. **Freight Movement and Economic Vitality** - Improve the freight network for Oahu, interisland, and trans-Pacific movements, strengthen the ability of rural communities to access trade markets, and support Oahu's economic development
4. **Natural Environment** - Develop, operate, maintain, and improve Oahu's transportation system in a manner that sustains environmental quality
5. **Human Environment and Quality of Life** - Develop, operate, maintain, and improve Oahu's transportation system in a manner that supports community-wide values related to health, safety, culture, and civil rights
6. **Land Use and Transportation Integration** - Develop, operate, maintain, and improve Oahu's transportation system in a manner that integrates effective land use and transportation with established sources of funding in a fair and equitable manner
7. **Infrastructure Condition** - Improve and maintain Oahu's transportation system in a state of good repair
8. **Reduce Project Delivery Delay** - Reduce project costs, promote jobs and the economy, eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices