Hawaii Statewide ITS Architecture

Statewide Concept of Operations Workshop



meeting summary

Attendees:

Hawaii Department of Transportation:

Neal Honma, Highways, Traffic Branch Kristine Pascua, Highways, Traffic Branch Jan Higaki, Highways, Traffic Branch Tim Sakahara, Public Information Officer

Sterling Chow, Hawaii District

State of Hawaii:

Noriko Sloan, Hawaii Tourism Authority Torrey Ho, Hawaii Emergency Management Agency Barbara Okamoto, Hawaii Visitors and Convention Bureau

City & County of Honolulu:

Ty Fukumitsu, **Dept. of Trans. Services**Andy Yip, **Dept. of Information Tech.**Jon Nouchi, **Honolulu Authority for Rapid Transportation (HART)**Jeffery Siehien, **HART**Whitney Birch, **HART**

County of Kauai:

Celia Mahikoa, **Kauai County Transit** Elton Ushio, **Kauai Civil Defense**

Date: Tuesday, May 24, 2016

Time: 10:00 – 3:00 PM

Place: Honolulu International Airport, Interisland Terminal

7th Floor, Interisland Terminal Conference Rooms

Purpose: To present the Hawaii Statewide ITS Architecture Concept of Operations, roles and

responsibilities and customized service packages.

1. Welcome and Introductions

Attendees were welcomed to the meeting and asked to introduce themselves. It was noted that, during the workshop, each stakeholder will be asked for feedback about how they should be represented in the architecture, including their roles and responsibilities, their projects and how they are shown in the customized service packages.

Consultant Team:

Shevaun Low, ICx James Takase, ICx Bruce Eisenhart, ConSystec John Baker, ConSystec Cami Kloster, G70

2. Stakeholders Review

A brief overview of ITS Architecture was provided, along with a definition of stakeholders for the purposes of ITS Architecture. Attendees were provided with a list of stakeholders along with a definition for each. In addition, the handouts include the ITS elements associated with each stakeholder.

Action Description	Responsibility	Due Date
 Provide comments on Stakeholders List to 	Attendees	June 13, 2016
Shevaun.Low@icxtg.com		

3. Operational Concepts

The Operational Concepts of the ITS architecture, which describe the roles and responsibilities of stakeholders, were reviewed. These roles and responsibilities have been organized by stakeholder, and then by service area, as they relate to surface transportation. It was noted that many of the roles and responsibilities are existing but may not use ITS. These are future opportunities for ITS projects.

Discussion/Comments:

- HDOT-HWY and the City and County of Honolulu DTS currently share traffic information. The Operational
 Concept for HDOT-HWY will be changed from 'future' to Coordinate traffic information and traffic control
 with the City and County of Honolulu Traffic Management Center to 'existing'. A similar change will be
 made for the City and County of Honolulu DTS.
- HIEMA noted that Hawaii unions may have concerns in using AVL for tracking vehicles via connected vehicle applications.
- HART had a question about multiple agencies sharing information. Specifically, HART is interested in receiving real-time incident information on highways or roads that could travel times to the airport. The service packages involving traveler information will be reviewed and updated to reflect providing incident information to Honolulu International Airport travelers. [Afternote: This may be a regional service for Honolulu/Oahu rather than a statewide service.]
- In reviewing the handout, HIEMA asked whether the operational concepts for HIEMA marked as 'existing' should be marked as 'planned'. The handout will be updated to add a note that this information is currently shared, but not electronically.
- HIEMA is currently pushing to house WEB EOC in the cloud so it could be accessed by multiple agencies. A
 project will be added to the list of projects; and the service packages will be updated to reflect this, as
 appropriate. HIEMA is hosting a WEB EOC training that other agencies may attend.

Action Description	Responsibility	Due Date
 Update Operational Concepts for HDOT-HWY based on above comments. 	Project Team	Complete
 Update HIEMA Operational Concepts from "existing" to "planned", where appropriate. 	Project Team	Complete
 Provide comments on the Operational Concepts to Project Team (shevaun.low@icxtg.com). 	Stakeholders	June 13, 2016

4. Elements

ITS elements may include traffic and transit centers, emergency management centers, field element and vehicles as well as data archiving systems.

Discussion/Comments:

- The *HDOT DIR-P Communications Network* represents multiple avenues of electronic communication to travelers in Hawaii, including but not limited to press releases, social media updates, website content, etc.
- In addition to kiosks, HART may also utilize a retail vending network for electronic payment.
- HIEMA recommend that the project team reach out to Hawaii State ETS (Enterprise Technology Services), the state ITS department to ensure that the requisite communications (i.e., fiberoptic cable, microwave, etc.) are in place to support ITS throughout the State of Hawaii.

Action Description	Responsibility	Due Date
 Update Elements based on comments. 	Project Team	Complete
 Provide comments on the Elements to the 	Stakeholders	June 13, 2016
Project Team (shevaun.low@icxtg.com).		

5. Projects / Future

All projects and future systems were reviewed. It was noted that the projects do not have funding tied to them and represent an agency's desires for the future. These projects will be mapped to the relevant portions of the ITS Architecture for the purposes of creating system engineering analyses to meet FHWA eligibility requirements for highway trust funds for ITS.

Discussion/Comments:

ID(s)	Project Name	Description	Comment	Action
S-19	Hawaii Joint EOC	This project will develop	HIEMA: Recent plans	Remove project from the
		a Joint EOC, housing both	presented to HIEMA	list.
		the HIEMA Hawaii State	show that there is	
		EOC and the City and	insufficient space in the	
		County of Honolulu EOC.	proposed Joint EOC to	
		This project will also	meet HIEMA	
		include a connection with	requirements. As such,	
		the HDOT-HWY TMC and	this project is no longer	
		the City and County of	viable and will be	
		Honolulu's Traffic	removed.	
		Management Center.		
S-22	HTA Update of	This project will update	GoHawaii.com, not	Update the description.
	GoHawaii.org	the GoHawaii.org	GoHawaii.org.	
	Website	website to include real		
		time information on		
		weather as well as		
		emergency information.		

ID(s)	Project Name	Description	Comment	Action
NEW	HIEMA Web EOC	This project will upgrade		This project will be added
	Upgrade	HIEMA's Web EOC		to the project list.
		capabilities to include		
		hosting information in		
		the cloud. This upgrade		
		will allow multiple		
		agencies outside of the		
		Hawaii State EOC to		
		access information on		
		Web EOC.		
NEW	HDOT Website	This project will redesign		This project will be added
	Update	the HDOT statewide		to the project list.
		website for highways,		
		airports and harbors.		

Action Description

Update Projects based on comments.

• Provide comments on the project list to Shevaun.Low@icxtg.com.

Responsibility

Due Date

Project Team Complete.
Stakeholders June 13, 2016

6. Agreements

Potential agreements that should be considered in order to successfully deploy the ITS systems contained in the Hawaii Statewide ITS Architecture were highlighted. These include:

- Data sharing agreements
 - The City and County of Honolulu and HDOT-HWY might require a data sharing agreement for the Honolulu JTMC.
 - HIEMA may utilize agreements in the future for sharing or accessing cameras and data from other agencies.
- Traffic Signals
 - There is an agreement between HDOT and the City and County of Honolulu for operations and maintenance of signals by the City and County Honolulu.
 - o An agreement is in place between the HDOT and the County of Hawaii for the COH for operations and maintenance of signals and streetlights by the County of Hawaii.
 - An agreement is in place between the HDOT and the County of Kauai for the HDOT, Kauai District, to operate and maintain signals on the island of Kauai.
- Transit
 - HART and the City and County of Honolulu will likely have an agreement defining roles, responsibilities, cost and data sharing at the Honolulu JTMC.
 - HART has an existing MOU with all other City and County of Honolulu departments to work together.
 - Fare Payment
 - An agreement is under development between HART and the City and County of Honolulu's DTS and DIT for the revenue sharing of the fare payment/collection system.
 - In the future, there may be additional agreements for the neighbor island counties to join the HART/DTS/DIT fare payment system.

- There is an MOU between the City and County of Honolulu DTS, City and County of Honolulu DIT, and HART for operations of HART.
- There is a service level agreement between HART and the City and County of Honolulu DTS that includes trip planning information.

Media

- The City and County of Honolulu has an agreement with media for use and attribution of CCTV images and traffic information.
- While there is no agreement between HDOT-HWY H3 and the media, an agreement may be developed in the future when HDOT moves to the JTMC.

7. Customized Service Packages

Service packages are pieces of the ITS Architecture that provide a particular transportation service. A series of service packages customized for Hawaii Statewide elements were reviewed and discussed. Key changes/comments from the discussion are given below. [Aside: All comments have been addressed and circulated to stakeholders for review and comment.]

Discussion/Comments:

Service Package	Comment	Action	
Emergency			
EM07	Connections between HDOT-AIR and HDOT-HAR have been changed to planned. Weather connections are through a voice broadcast via FEMA – these are still via voice and video. Added City and County of Honolulu TMC to traffic management. HDOT-HWY-H would send information through the County of Hawaii EOC as well as through the HDOT-HWY TMC.	None [changes made at the workshop].	
EM08	Connections between HDOT-AIR and HDOT-HAR changed to <i>planned</i> .	None.	
EM09	Connections between HDOT-AIR and HDOT-HAR changed to <i>planned</i> . There is no connection between state and transit – this is done at the county level.	None.	
EM10	INFORMER is an indoor warning device provided and controlled by the state that provide indoor sirens or voice messages as part of disaster awareness. The project team will add this to the architecture. Interfaces from the Hawaii State EOC to the media were added as <i>existing</i> .	None.	
Traffic Manageme	ent		
ATMS07	Changed the connection between HDOT-HWY TMC and City and County of Honolulu Traffic Management Center to <i>existing</i> .	None.	
Traveler Information			
ATIS01	Added the City and County of Honolulu TMC feeding traveler information to GoAkamai.	None.	
ATIS01	Added the City and County of Honolulu TMC feeding traveler information to GoAkamai.	None.	

Service Package	Comment	Action
Archived Data		
AD2	Archives for crash data and pavement data should be shown. Added two service package diagrams showing (1) the HWY-TS crash data connections to the County police department data; and (2) the HWY-P connections to the HWY districts for pavement data collection.	None.
Transit Managem		
APTS04-3	TheBus and HART elements should be separated. Separate boxes for TheBus and HART elements.	None.
APTS04	This service package should be updated to add open payment instrument package – this should show travelers managing an account through personal devices, and mobile payment instruments being accepted by the buses and station equipment. The team will use the name "Open Payment Instrument" to cover devices or credit cards equipped with open payment chips. The Open Payment Instrument connects to the back office.	None.

Action Description	Responsibility	Due Date
 Update service packages to reflect comments. 	Project Team	Complete
 Provide comments on the service package 	Stakeholders	June 13, 2016
diagrams to Shevaun.Low@icxtg.com.		

8. Schedule

The project schedule for development of the Hawaii Statewide ITS Architecture was reviewed. The timeline for the remaining project is as follows:

• June 10, 2016: Stakeholder comments on the workshop notes due

• July 31, 2016: Incorporate comments and complete the draft architecture website

August 2016: Stakeholder review of the draft architecture
 Fall 2016: Finalize Hawaii Statewide ITS Architecture

These action items were recorded by Cami Kloster of Group 70, John Baker of ConSysTec and Shevaun Low of ICx; it will be assumed to be complete and correct unless any comments and/or discrepancies are brought to ICx's attention no later than Friday, June 13, 2016.