



MAXIMIZING HAWAII'S HIGHWAYS

Maximizing Hawaii's Highways

- Priorities
 - Tier 1:
 - Preservation and Safety
 - Tier 2:
 - Capacity and Congestion
- Using Data to Drive Priorities
- Transparency/Public information
- Improving Processes to implement quickly, maximize impacts, and qualify for additional funding





Preservation and Safety

- Transportation asset management plan
 - Want to preserve and protect assets we already have
 - Preserving what we have is the most efficient use of tax \$
 - Federal funds require that we set and meet preservation and safety goals
 - Provide safety upgrades based on data from accidents (SHACA)

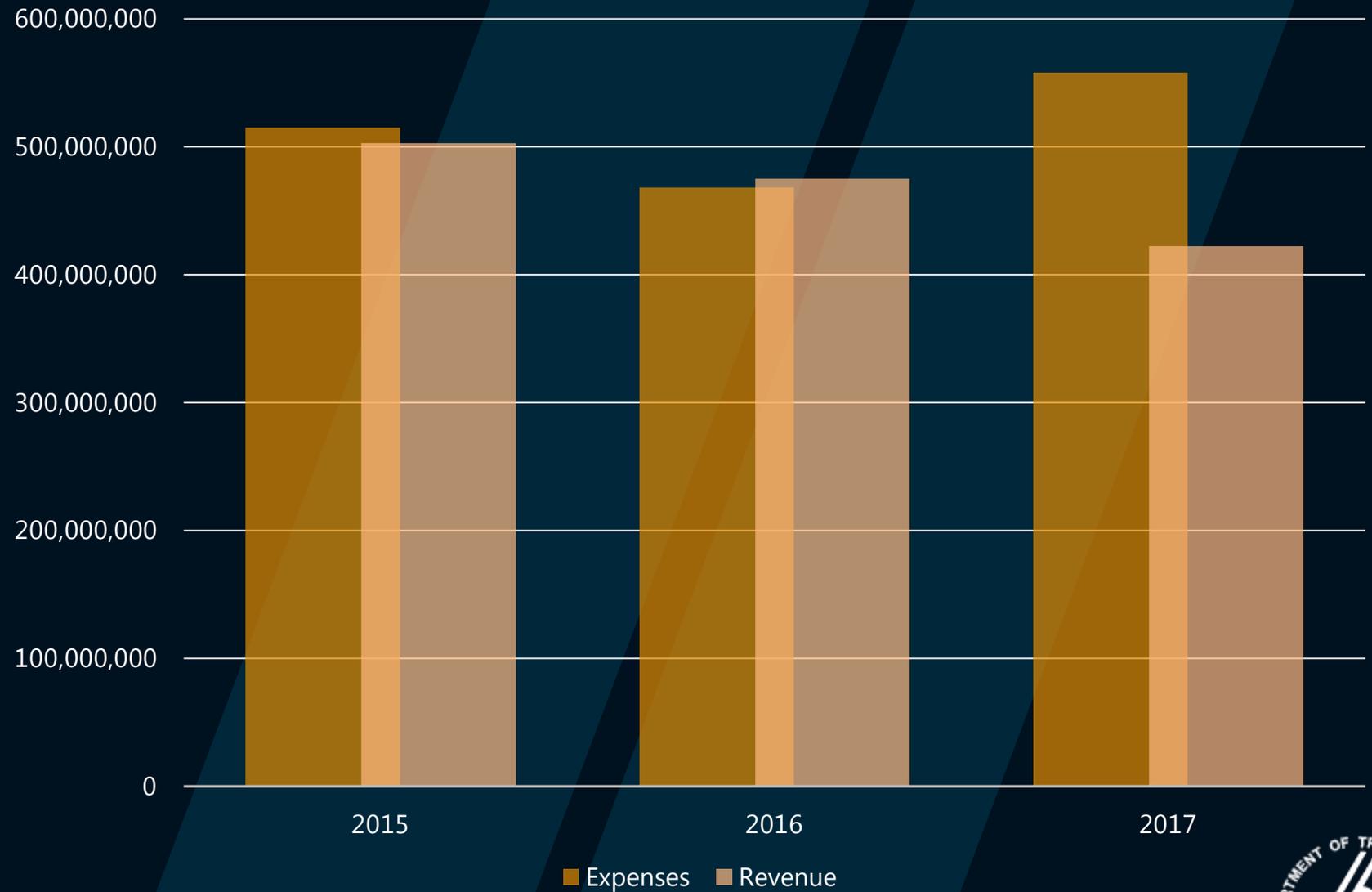
Setting and Meeting Targets for Improvement

- Approximately 2,500 lane miles across six islands
- 25% **good** condition
- 53% **fair** condition
- 22% **poor** condition
- Goal 90% in fair or better condition
- Must prioritize projects with the greatest benefit



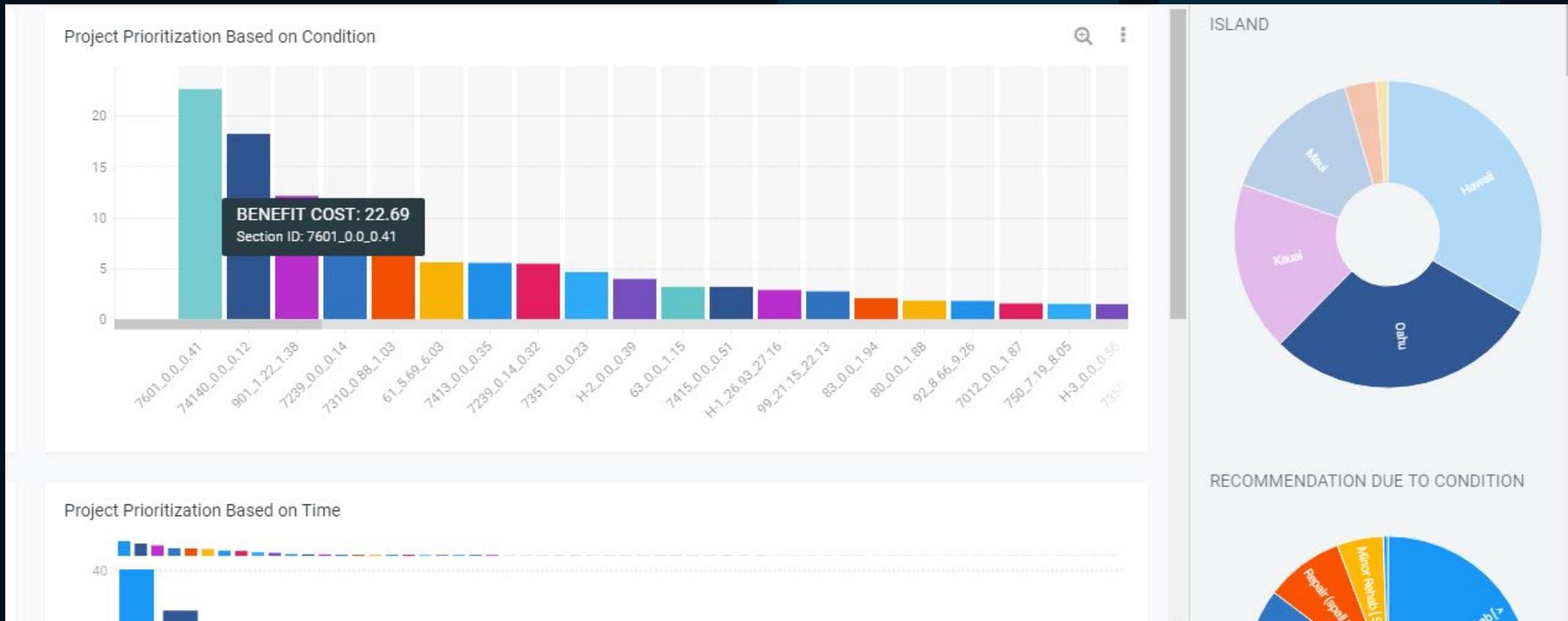
Rising Costs, Decreased Revenue

Highways revenue has been decreasing while cost of construction is increasing.



Using Data to Drive Priorities:

PFES (Plan for Every Section of Every Road) / **SHACA** (State of Hawaii Advanced Crash Analysis)





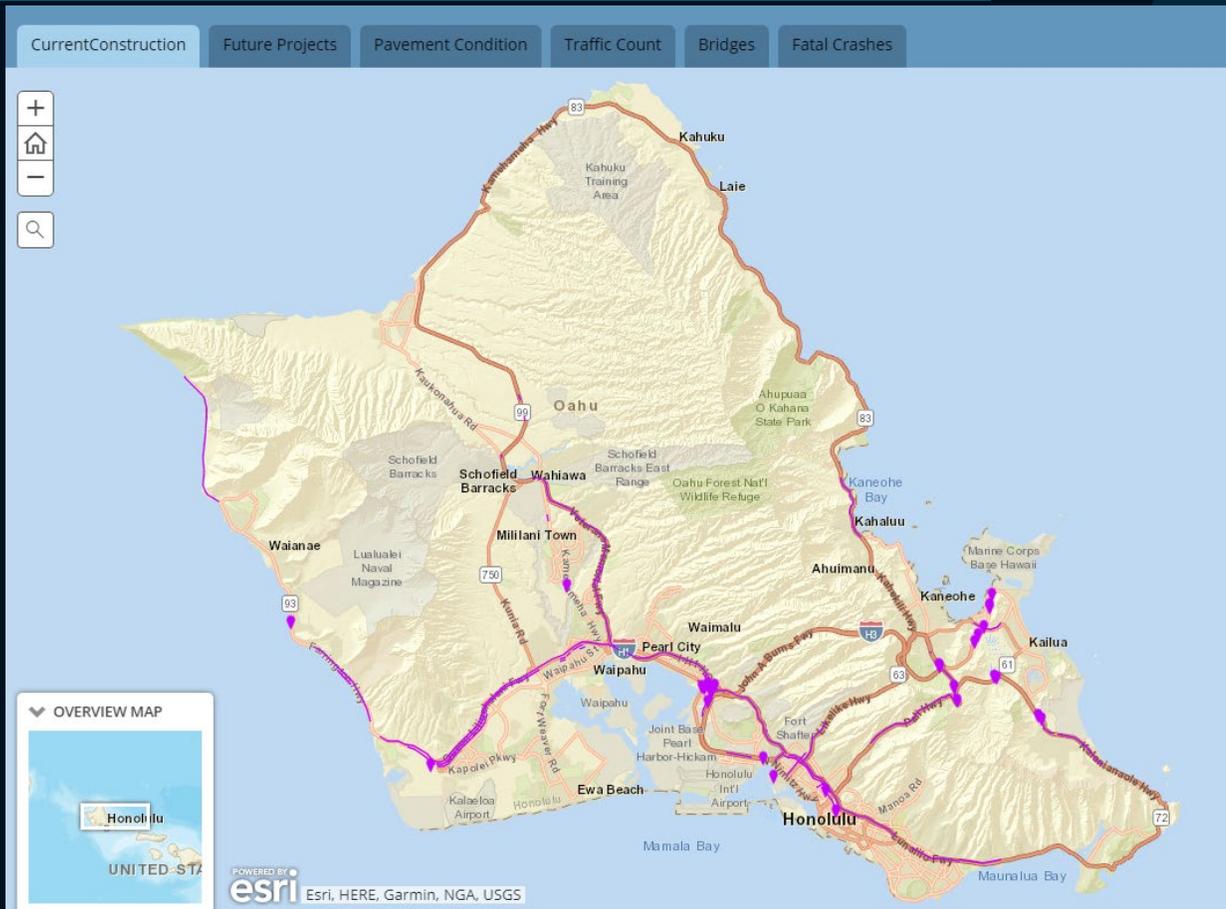
Using Data to Drive Priorities:

SmartTRAC (Transportation Rank Choice)

- SmartTRAC is a process to assess how well proposed transportation projects address state priorities
- Uses our current priorities (preservation and safety) to rank projects
- The system can be adjusted to meet whatever the agreed to priorities are at the time
- Provides predictability/transparency in that pre-determined scoring factors are used to rank all projects



Data Transparency and Public Info



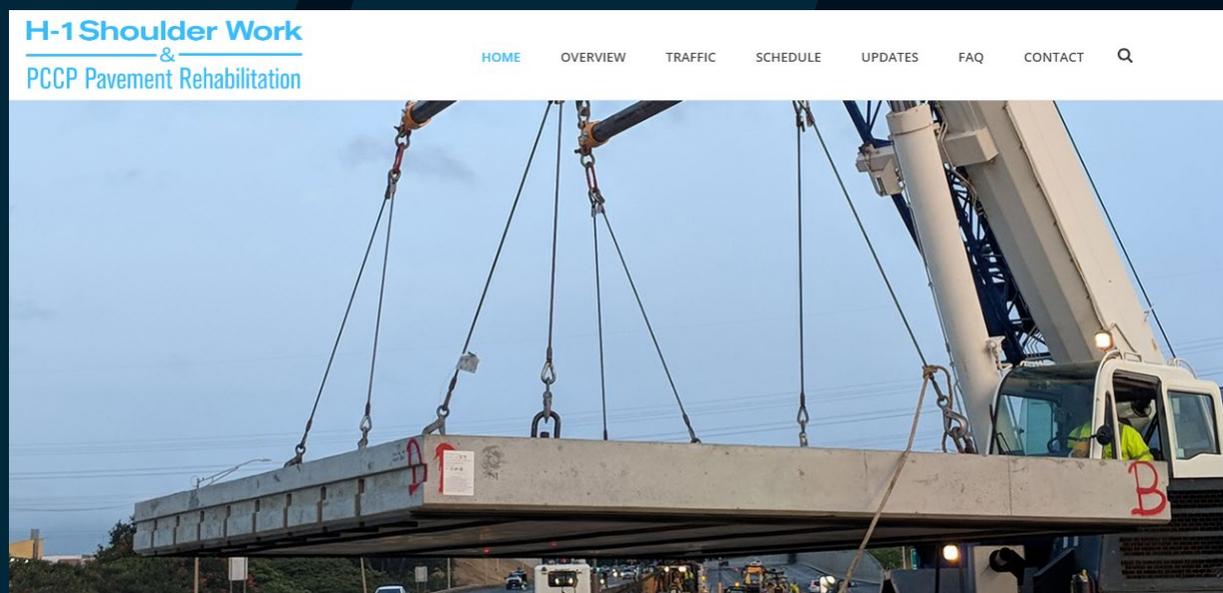
Project Information	Limits of Construction	Scope	Progress/Schedule
<p>TRAFFIC SIGNAL MODERNIZATION AT VARIOUS LOCATIONS, OAHU, PH. 1</p> <p>Project Number: STP-0300(163) Phase: Future Construction Point of Contact: KARL KUNESHIGE Karl.Kunishige@hawaii.gov</p>	<p>Mileposts:</p> <ul style="list-style-type: none"> 18.10 to 18.30 0.70 to 0.90 5.60 to 5.80 1.10 to 1.30 25.90 to 26.00 	<p>THE WORK INCLUDES ASSESSMENT OF ALL STATE TRAFFIC SIGNALS, AND DEVELOPING CONSTRUCTION PLANS, SPECIFICATIONS AND ESTIMATES AND ALL REQUIRED ENVIRONMENTAL DOCUMENTS AND PERMITS FOR SIGNAL FACILITIES THAT ARE IN NEED OF IMMEDIATE REPLACEMENT AND UPGRADE.</p>	<p>Scheduled Advertise Date: 10/2019</p> <p>Construction Cost: Between \$1 Mil and \$5 Mil</p>
<p>INTERSTATE ROUTE H-1 SAFETY IMPROVEMENTS, PALAILAI INTERCHANGE TO WAIAWA OVERPASS</p> <p>Project Number: HSIP-H1-1(270) Phase: Construction Point of Contact: ARTHUR SICKLES Arthur.Sickles@hawaii.gov</p>	<p>Mileposts:</p> <ul style="list-style-type: none"> 0.00 to 9.00 		<p>Awarded On: 02/27/2019</p> <p>Percent Complete: 0%</p> <p>Construction Cost: \$ 7.7 Mil</p> <p>Est End Date: 11/2020</p> <p>Contractor: DRAYKO CONSTRUCTION INC.</p>
<p>INTERSTATE RTE H-1, ADDITION AND MOD. OF FREEWAY ACCESS, MAKAKILO TO PALAILAI IC (KAPOLEI INTERCHANGE COMPLEX), PHASE 2</p> <p>Project Number: IM-H1-1(261) Phase: Construction Point of Contact: WILLIAM RAPISURA william.rapisura@hawaii.gov</p>	<p>Mileposts:</p> <ul style="list-style-type: none"> 0.00 to 1.30 0.00 to 2.70 	<p>CONSTRUCT THE WAKEA STREET OVERPASS, H-1 WESTBOUND OFF-RAMP TO WAKEA STREET, WAKEA STREET WESTBOUND ON-RAMP TO FARRINGTON HIGHWAY</p>	<p>NTP Date: 10/14/2015</p> <p>Percent Complete: 73%</p> <p>Construction Cost: \$ 64.5 Mil</p> <p>Est End Date: 11/2019</p> <p>Contractor: GOODFELLOW BROS., INC.</p>



Public Info: Ongoing Projects

**PALI HIGHWAY
RESURFACING:**
<http://palihighway.org/>

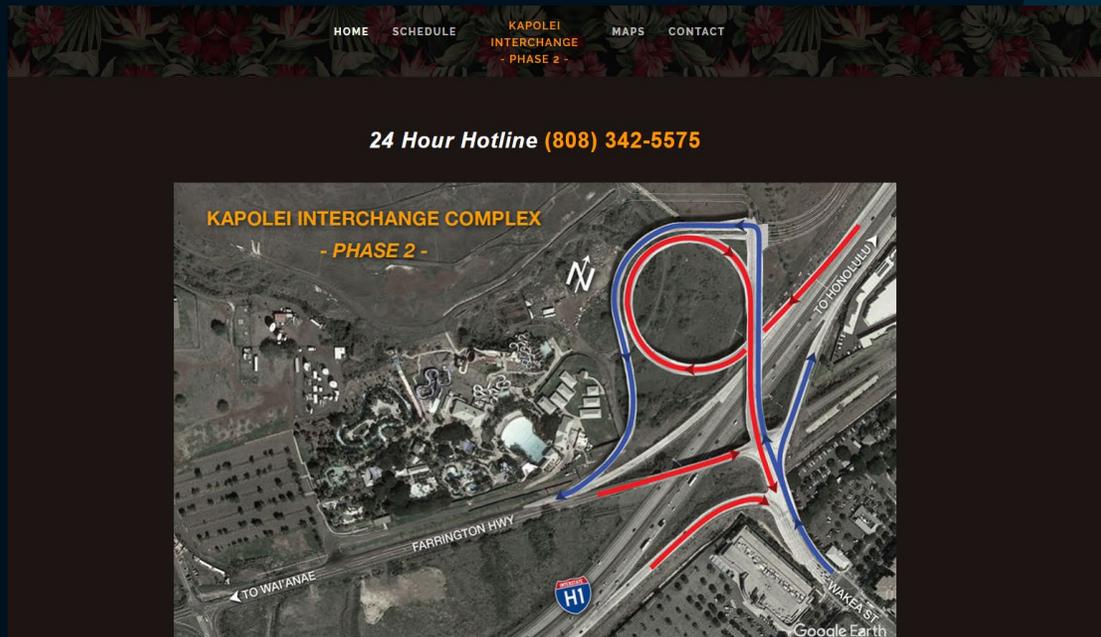
**H-1, SHOULDER WORK & PCC
PAVEMENT REHABILITATION:**
<http://h1waimalu.com/>



Public Info: Ongoing Projects

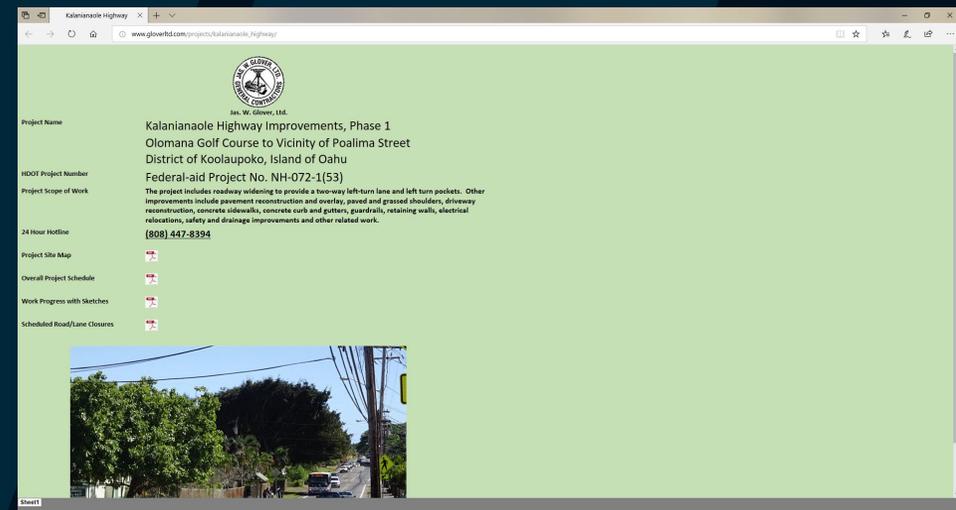
KAPOLEI INTRCHANGE COMPLEX PHASE 2:

<https://www.buildkapolei.com/>



KALANIANAOLE HIGHWAY IMPROVEMENTS PHASE I OLOMANA GOLF COURSE TO VICINITY OF POALIMA STREET:

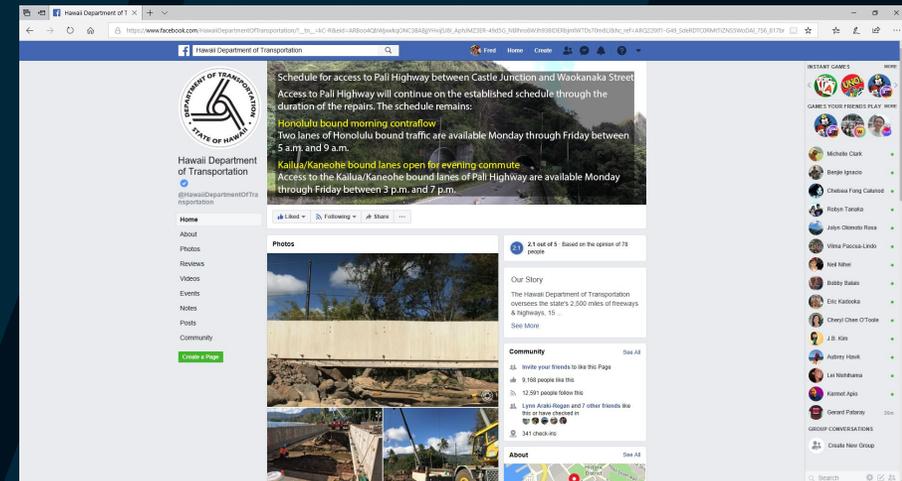
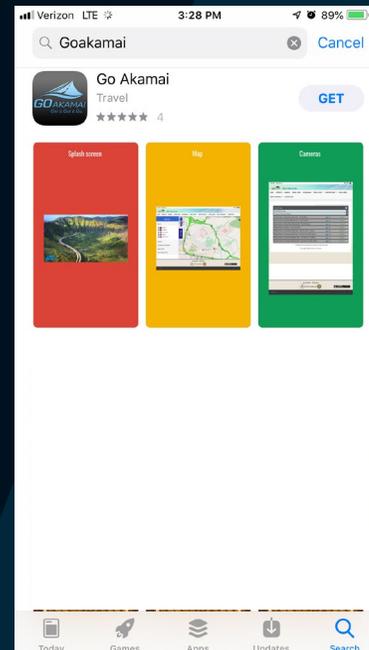
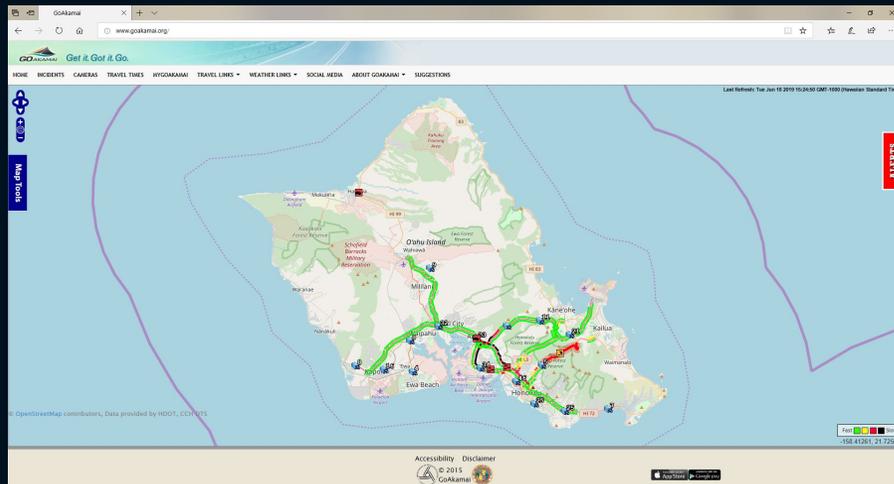
http://www.gloverltd.com/projects/kalanianaole_highway/



Public Info: Social Media, Mobile App

GO AKAMAĪ (Get it. Got it. Go.) :
<http://www.goakamai.org/>

HAWAII DOT ON FACEBOOK:
<https://www.facebook.com/HawaiiDepartmentOfTransportation/>



Public Info: Social Media, Mobile App

HAWAII DOT ON TWITTER

https://twitter.com/DOThawaii?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor

The screenshot shows a Twitter post from Hawaii DOT (@DOThawaii) with a blue header. The main text of the tweet reads: "SCHEDULE FOR PALI HIGHWAY ACCESS HONOLULU BOUND MORNING CONTRAFLOW OPEN M-F BETWEEN 5-9 A.M. KAILUA/KANEOHE BOUND LANES OPEN FOR EVENING COMMUTE M-F BETWEEN 3-7 P.M." Below the text is the Hawaii DOT logo and profile information: "Hawaii DOT @DOThawaii", "The Hawaii DOT oversees 2,500 miles of freeways & highways, 15 airports and 10 commercial harbors and employs 2,665 difference makers.", "Honolulu, Hawaii", "hidot.hawaii.gov", and "Joined September 2011". The tweet shows 6,658 retweets, 263 replies, 11.1K followers, and 53 likes. Below the tweet are two more tweets from Hawaii DOT regarding airport updates at Daniel K. Inouye Intl Airport.

The screenshot shows the Twitter mobile app interface. At the top, it says "Twitter" and "Chat about what's happening". Below this are three main sections: "See what's happening", "Follow your interests", and "Join the conversation". The bottom navigation bar includes icons for Today, Games, Apps, Updates, and Search.



Improving Processes to Meet Needs

- Using new approaches to address congestion issues
- When possible, use existing ROW to move vehicles (i.e. Contraflow, restriping)
- Improve system to get information to road users
- Begin work on sustainable funding source now



Additional Zipper lane



- Volume and speed in the Zipper lanes rose after the addition of the second Zipper lane in Fall 2016.
 - +2,300 additional vehicles in lanes daily (total 6,700)
 - Average speed in lanes increased by 5 mph.
- Additional capacity was added at a cost of \$1.5 million.

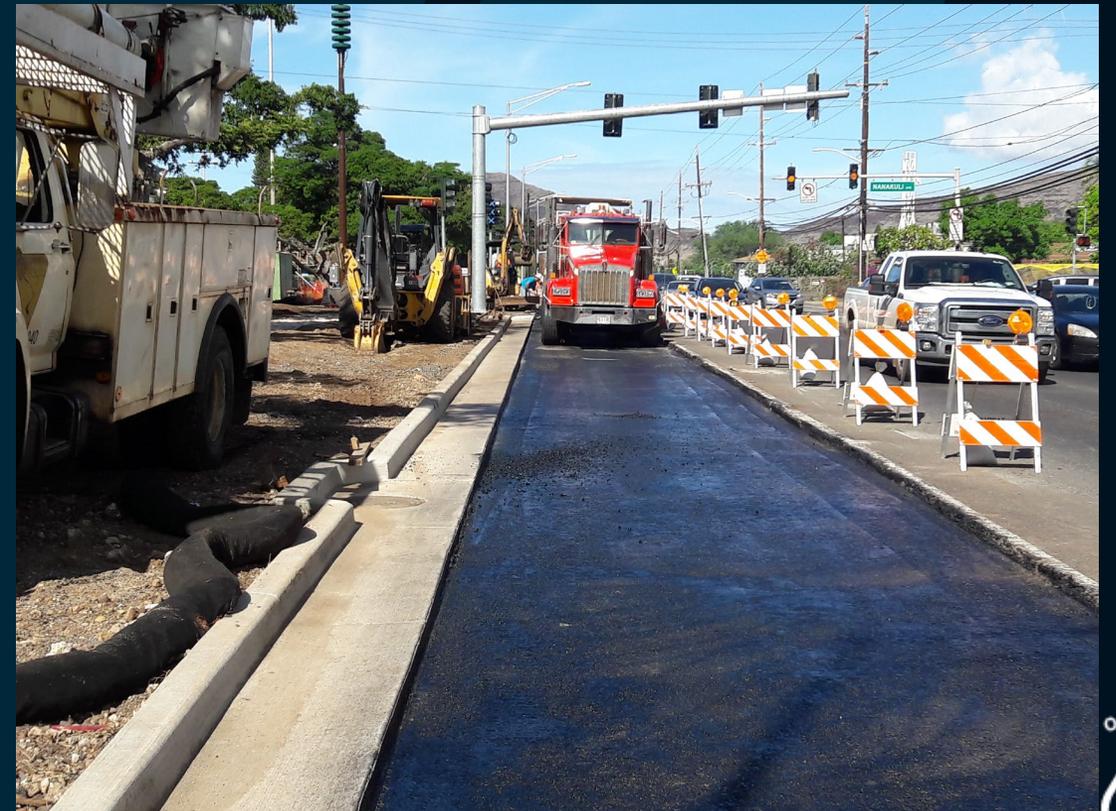
H-201/H-1 Resurfacing and Additional Lane, Halawa to Aiea

- \$4 million dollar project reconstructed pavement from the H-201 westbound Halawa offramp to the Aiea Pedestrian overpass on the H-1.
- Project also restriped the area to add an additional lane in the existing ROW.



Nanakuli Contraflow

- Implemented to mitigate congestion from the Farrington Highway Intersection Improvements Project, Nanakuli Ave. and Haleakala Ave.
- Saves on average 10-15 min. for westbound drivers through the contraflow area.
- Cost to operate \$700,000/ year



Kahekili Highway Resurfacing & Contraflow



- Added an additional Kahuku-bound lane between Haiku Road and West Hui Iwa Street.
- Installed flexible delineator system for Honolulu-bound AM contraflow.
- Cost was approximately \$4 million.

Future Implementation

- H-201 westbound additional lane (Puuloa to Halawa) – currently in design, est. completion Fall 2020.
- ITS Improvements
 - **Recent:** Smart boards on Koolau routes (April 2018); ops.Punatraffic.com cameras (June 2018); est. travel times at Kaamilo and Liliha (July 2018); Koolau routes added to GoAkamai (August 2018); Design of FMS, Phase 2 completed (September 2018); JTMC A/V procurement (October 2018)
 - **Planned:** JTMC operations; TIM training; CON for FMS, Phase 2; Design of FMS, Phase 3; bringing up Radford and Puuloa DMS
- HIKI grant application (FHWA's ATCMTD)
 - Upgrade traffic signals along Nimitz Highway to provide SPaT data to connected vehicles.
- TravelSafely App





Upcoming Resurfacing Projects

- NIMITZ HIGHWAY AND ALA MOANA BOULEVARD RESURFACING
- FORT WEAVER ROAD RESURFACING





Mahalo

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