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

https://histategis.maps.arcgis.com/apps/MapSeries/index.html?appid=39e4d804242740a89d3fd0bc76d8d7de
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 INTERCHANGE 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 AKAMAI** *(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
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.Punattraffic.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
Edwin Sniffen

Website
http://hidot.hawaii.gov

Email
DOTPAO@Hawaii.gov