



OahuMPO Technical Advisory Committee

CH2M

November 8, 2017



VI. New Business

b. Performance Measures Targets – Transit Asset Management & Safety



Federal Performance Measures

- Moving Ahead for Progress in the 21st Century (MAP-21)
 - Established a performance management approach
 - Investment in projects that support and make progress toward national goals
- Fixing America's Surface Transportation (FAST) Act
 - Reaffirms MAP-21 performance management requirements



FTA Transit Asset Management (TAM)

- **State of Good Repair**
 - Maintain a state of good repair for the nation's public transportation assets
- **Definition**
 - The condition in which a capital asset is able to operate at a full level of performance. A capital asset is in a state of good repair when that asset:
 1. Is able to perform its designed function,
 2. Does not pose a known unacceptable safety risk, and
 3. Its lifecycle investments must have been met or recovered.



TAM Performance Measure Targets

| ASSET | PERFORMANCE MEASURE | TARGET |
|----------------|--|--------|
| Rolling Stock | Percentage of revenue vehicles met or exceeded Useful Life Benchmark | 20% |
| Equipment | Percentage of service vehicles met or exceeded Useful Life Benchmark | 30% |
| Infrastructure | Percentage of track segments with performance restrictions by class | N/A |
| Facilities | Percentage of assets with condition rating below 3.0 on FTA TERM Scale | 10% |



Recommendation

- **Adopt DTS TAM targets**
 - DTS has the necessary data, records, and management expertise to set reasonable TAM performance targets.
 - OahuMPO can support the established TAM targets through the regional transportation planning process, the Transportation Improvement Program (TIP) and the Oahu Regional Transportation Plan (ORTP).
 - Continue active coordination and collaboration with DTS.



FHWA Safety Performance Measures

- Established five performance measures as the five-year rolling averages
 - Number of Fatalities
 - Rate of Fatalities
 - Number of Serious Injuries
 - Rate of Serious Injuries
 - Number of Non-Motorized Fatalities and Non-Motorized Serious Injuries
- Applies to all public roads regardless of ownership or functional classification



Safety Performance Measure Targets

| PERFORMANCE MEASURE | TARGET | BASIS |
|---|--------|--|
| Number of Fatalities | 97.6 | Based on the five-year average of fatalities |
| Fatality Rate (fatalities/100 million VMT) | 0.946 | Calculated based on the fatality target and historical VMT |
| Number of Serious Injuries | 517.4 | Based on past historical data with an HSHSP goal of reducing the number of severe accidents for future years. |
| Serious Injury Rate (serious injuries/100 million VMT) | 4.978 | Calculated based on the serious injury target and historical VMT |
| Number of Non-Motorized Fatalities and Serious Injuries | 119.4 | Based on past historical data with an HSHSP of reducing the number of fatal and severe accidents for future years. |



Oahu Compared to the State Baseline

| Performance Measures | Five-Year Rolling Averages | | |
|---|---|--|-------------------------------------|
| | 2012-2016 Baseline Performance STATE | 2012-2016 Baseline Performance OAHU | 2014-2018 State Safety Target |
| Number of Fatalities | 107 | 54 | 97.6 |
| Fatality Rate | 1.05 | 0.87 | 0.946 |
| Number of Serious Injuries | 435* | 229* | 517.4* |
| Serious Injury Rate | 4.32* | 3.7* | 4.978* |
| Number of Non-motorized fatalities and Serious Injuries | 110* | 77* | 119.4* |

* Based on a baseline performance between 2010-2014



Recommendation

- **Adopt HDOT Safety targets**
 - The HDOT has gone through a very collaborative process with agency and public stakeholders to update the HSHSP 2013-2018 and developed comprehensive strategies of legislation, funding, education and community action, enforcement and adjudication, engineering, and updating data needs to attain the established HDOT safety targets.
 - OahuMPO can support the established Safety targets through the regional transportation planning process, the Transportation Improvement Program (TIP) and the Oahu Regional Transportation Plan (ORTP).
 - Continue active coordination and collaboration with HDOT.



Performance Measures Targets – Transit Asset Management & Safety

- **Requested Action:**
 - Recommend OahuMPO's response to Transit Asset Management and Safety performance measures targets, as presented, for Policy Board consideration.
- **Questions?**