Transportation Performance Metrics Overview and Work Scope
(Discussion item)

Transportation Commission
November 15, 2023

Background

- General Plan action:
  - "Systemwide Monitoring. Provide comprehensive citywide monitoring of the transportation system for all modes to be included in the Annual Report on Transportation."
- Annual Transportation Report included reporting on 20 "Performance Measures" in 2022 report
  - "The City of Alameda aims to make data-driven decisions when setting transportation priorities, and uses this information as a type of performance metrics to help evaluate actions taken so as to better understand how to proceed in the future."
- City Plans with transportation performance measures, metrics and/or targets:
  - Climate Action and Resiliency Plan (CARP)
  - Vision Zero Action Plan (VZAP)
  - Active Transportation Plan (ATP)

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Mobility Element Goals

Performance metrics based on 4 Mobility Element goals:

1. Equity
2. Safety
3. Choices
4. Sustainability

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Equity Performance Metrics

- **Goal**
  - *"Provide for the mobility needs of all Alameda residents, workers, and visitors regardless of income, age, ability or neighborhood"*
- **Work Done to Date**
  - Community Vulnerability Map adopted
  - VZAP and ATP measures:
    - % safety + active transportation improvements in equity priority areas
    - Traffic stops by race
- **Recommendation**
  - Focus on developing new metrics

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Equity Performance Metrics

- **Questions**
  - What equity metrics would Commissioners like to see?
  - What would be most meaningful to track?
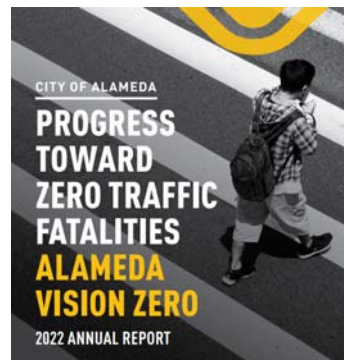

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Safety Performance Metrics

- **Goal**
  - *"Eliminate fatalities and severe injuries on Alameda's streets, sidewalks, crosswalks and trails by 2035"*
- **Work Done to Date/Underway**
  - VZAP has 10 Performance Measures
  - Annual Report reports on progress
  - Quarterly crash #s online
- **Recommendation**
  - Continue reporting
  - No new measures needed

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Transportation Choices/Mode Shift Performance Metrics

- **Goal**
  - *"Expand and improve alternatives to low occupancy automobile trips to incentivize mode shift to more environmentally sustainable modes of transportation while recognizing the diverse needs for mobility."*

- **Areas**
  - Mode shift
  - Active Transportation
  - Transit

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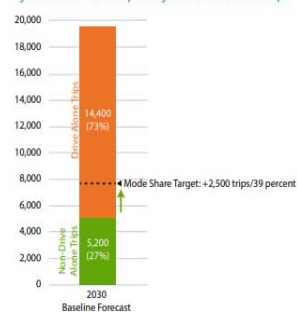## Transportation Choices/Mode Shift Performance Metrics
Mode Shift: Work Done to Date

- **Transportation Choices Plan (2018)**

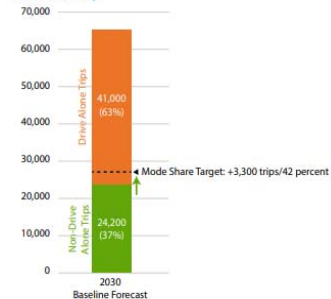| Goal 1: Cross Estuary	Goal 2: In Alameda
– Decrease drive-alone trips across the estuary in the morning peak by increasing non-drive alone trips by 12 percentage points from 27 percent to 39 percent (in 2030)	– Increase the share of walking, bicycling, transit and carpooling trips in Alameda by increasing non-drive alone trips by 5 percentage points from 37 percent to 42 percent (in 2030)

Figure 1: AM Peak Hour Estuary Crossings Goal for Non-Drive Alone Trips

Drive Alone Trips 14,400 (73%)
Mode Share Target: +2,500 trips/39 percent
Non-Drive Alone Trips 5,200 (27%)
2030 Baseline Forecast

Figure 2: Weekday Daily Person Trips within Alameda Goal for Non-Drive Alone Trips

Drive Alone Trips 41,000 (63%)
Mode Share Target: +3,300 trips/42 percent
Non-Drive Alone Trips 24,200 (37%)
2030 Baseline Forecast

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Transportation Choices/Mode Shift Performance Metrics
Mode Shift: Work Done to Date

- **CARP** includes three transportation goals focused on mode shift:
  - Reduce commute VMT via the promotion of telecommuting
  - Build additional bike lanes
  - Expand the AC Transit bus pass program
- **Count Data**
  - City and developers collect multi-modal volume data
  - Caltrans and Alameda County collect data on usage of their facilities (state routes, the Tubes and bridges)
  - AC Transit and WETA collect ridership data

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Transportation Choices/Mode Shift Performance Metrics
Mode Shift

- **Work Done to Date/Underway**
  - CARP update will review and revise Plans' performance metrics
- **Recommendation**
  - Focus on:
    - determining the best way to measure mode shift in Alameda
    - revisiting the two goals in the TCP
    - determining if feasible for City to use VMT as a metric
    - If so, collaborating with the CARP update on a VMT metric

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Transportation Choices/Mode Shift Performance Metrics
Active Transportation

- **Work Done to Date/Underway**
  - ATP has 16 performance measures and targets
  - Annual Report will report on progress, starting with 2023

- **Recommendation**
  - Focus on refining the "TBD" measures and targets
  - No new measures needed

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Transportation Choices/Mode Shift Performance Metrics
Transit

- **Work Done to Date/Underway**
  - Annual Transportation Report reports on transit ridership, trends for AC Transit, WETA and City Paratransit program:
    - Average daily boardings on Alameda bus lines (AC Transit)
    - Average daily boardings by bus line (AC Transit)
    - Ferry ridership trends, overall and by ferry terminal (WETA)
    - Paratransit's Free AC Transit Bus Pass Program ridership and monthly boardings
    - Paratransit's Transportation Network Company (TNC) Concierge Pilot Program rides and unique users
  - CARP has strategy to expand free transit pass program

- **Recommendation**
  - Develop performance metrics and targets for transit efforts under City control

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Transportation Choices/Mode Shift Performance Metrics
Transit

- **Questions**
  - Which types of transit efforts, under the City's control, should the City create metrics or targets for?
  - Should the City report or focus on additional transit performance measures, such as travel times for buses across Alameda and in key commercial corridors?

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Sustainability & GHG Reduction Performance Metrics

- **Goal**
  - *"Reduce the impacts of transportation systems on the environment, and transition to a more resilient transportation system to address the impacts of climate change"*
- **Work Underway**
  - CARP Annual Report reports on electric vehicle (EV) ownership, EV charging stations, electrification of City fleet and telecommuting
  - CARP update will re-evaluate and update these performance measures
  - Transportation Annual Report includes data on car sharing
- **Recommendation**
  - Via CARP Update, further develop existing performance measures
  - Develop measures for micromobility, clean transit vehicle adoption, and carpooling
  - Consider developing targets

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Transportation Performance Metrics

- **Overall Questions**
  - What are the questions that you'd like to have answered with this performance monitoring?
  - What level of resources (staff time and funding) is right for the City to place on collecting and analyzing data, knowing that data sources are imperfect and that this work takes away from work implementing projects and programs?
  - Are there other metrics or targets the City should be considering?

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Consultant Work Scope

1. Review existing City transportation performance measures, metrics, targets and available City data.
2. Review existing relevant data from neighboring cities, transit agencies, Alameda County, Alameda CTC and the region.
3. Develop best practices memo for cities of a similar size to Alameda
4. Recommend a package of performance metrics and targets that address the four General Plan goals, building on those in existing City Plans.
5. Recommend a data collection plan to collect baseline data and future year data, and assist City with implementation in 2024/25.

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