ALAMEDA COUNTY TRANSPORTATION COMMISSION

Countywide Multimodal Arterial Plan

Improving multimodal mobility for better economic, health and environmental outcomes

Arterial Operations Committee September 23rd, 2014 Meeting
Francisco Martin, Fehr & Peers
September 23, 2014
Project Success

• Jurisdiction/partner agency participation and buy-in

• Coordination with:
  ▪ Countywide Transit Plan
  ▪ Goods Movement Plan

• Reliable macro-level analysis
Project Design Framework

- Stakeholder Engagement Plan
- Identify Arterial Network
- Data Collection Plan
- Travel Demand Forecasting White Paper
- Roadway Typologies
- GIS Cross-Sectional Tool
  - Proof of Concept
Summary Scope – Milestone #1

MILESTONE ONE

1. ACTAC Meeting

- Create Vision, Goals and Objectives
- Develop Performance Measures
- Identify Arterial Network
- Create Roadway Typologies

2. ACTAC Meeting

Ongoing Project Team Meetings

3. Meetings with Agencies by Planning Area
Identifying Arterial Network

• Plan will screen ALL arterials in the County

• Stratification system for identifying Arterial Network
  ▪ Cross-sectional improvements to be identified for the entire Arterial Network
  ▪ Focused evaluation of short- and long-term improvements on arterials of Countywide significance
Identifying Roadway Typologies

• Typologies will be descriptive of:
  ▪ Transportation function, modal emphasis
  ▪ Relative scale of local or longer distance travel
  ▪ Land use context

• Typologies will consider the potential for parallel facilities to create a complete street network

• Typologies will be consistent with priority goods movement and transit corridors
## Potential Performance Measures

<table>
<thead>
<tr>
<th>FACILITY-SPECIFIC QUANTITATIVE PERFORMANCE MEASURES:</th>
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<tbody>
<tr>
<td><strong>Auto</strong></td>
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<tr>
<td>------------</td>
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<tr>
<td>Based on Countywide Transit Plan</td>
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<td><strong>Travel Reliability</strong></td>
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<tr>
<th>FACILITY-SPECIFIC QUALITATIVE MEASURES:</th>
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<tbody>
<tr>
<td>- Feasibility</td>
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<td>- Opportunities for TOD</td>
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<td>- Parking strategies</td>
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<td>- Economic benefits</td>
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<tr>
<th>COUNTYWIDE AND SUB-AREA MEASURES:</th>
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<tr>
<td>- VMT/VMT per capita</td>
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<tr>
<td>- Active transportation mode share</td>
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<td>- Social equity (investment and impacts of improvements)</td>
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<td>- Adopted TDM Strategies</td>
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Summary Scope – Milestone #2

1. Meetings with Agencies by Planning Area

2. Stakeholder Workshops

3. ACTAC Meeting

- Identify Modal Priorities
- Develop Preferred Cross-Sections
- Confirm Performance Measures
Forecasting Approach

Multiple Travel Demand Forecasting Scenarios:

1. Standard forecasts using the updated Alameda CTC Travel Demand Model with SCS land use
2. Alternative Scenario #1 – Behavioral Influence, reduced VMT
3. Alternative Scenario #2 – Technology influence, autonomous vehicles
Developing Preferred Cross-Sections

- The GIS Cross-Sectional Tool will utilize roadway typology, modal priorities, existing roadway cross-sections, and traffic forecasts to identify a set of recommended cross-sections for the Arterial Network.

- Consultant team will coordinate with stakeholder agencies to develop the set of preferred cross-sections.
Summary Scope – Milestone #3

MILESTONE THREE

1. Individual Meetings with Agencies (16)
2. Stakeholder Workshops
3. ACTAC Meeting

✓ Confirm and Finalize Preferred Cross-Sections
✓ Identify Short-term and Long-term Improvements
Short- and Long-Term Improvements

Corridor Improvement Concepts
- Physical (cross-section, longitudinal, intersection)
- Transit and other modes
- Technology, systems, operations, other strategies

Support Programs
- Transportation Demand Management
- Parking
- Climate Initiative Programs