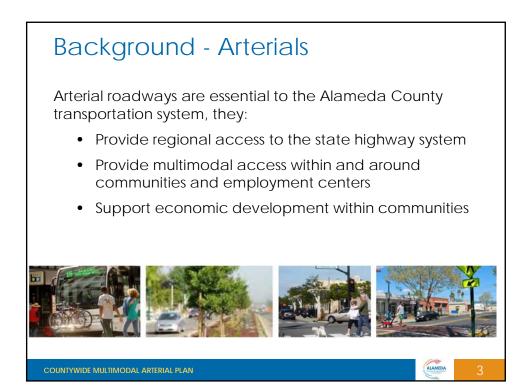


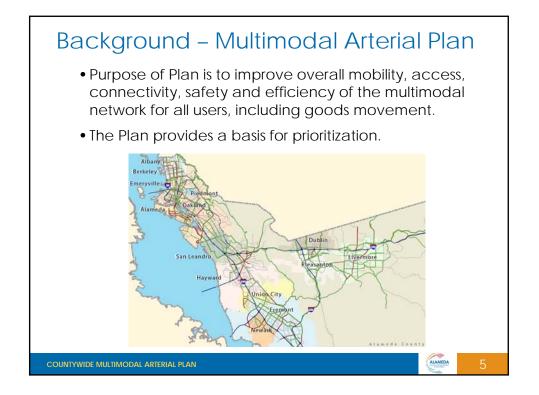
### Presentation Overview

- Background Arterials
- Background Multimodal Arterial Plan
- Plan Framework
- Vision and Goals
- Performance Measures and Draft Evaluation Framework
- Draft Arterial Network Selection Criteria
- Actions Requested:
  - ✓ Approve Arterial Plan Vision, Goals and Performance Measures
  - ✓ Provide input on Arterials of Countywide Significance Network Selection Criteria

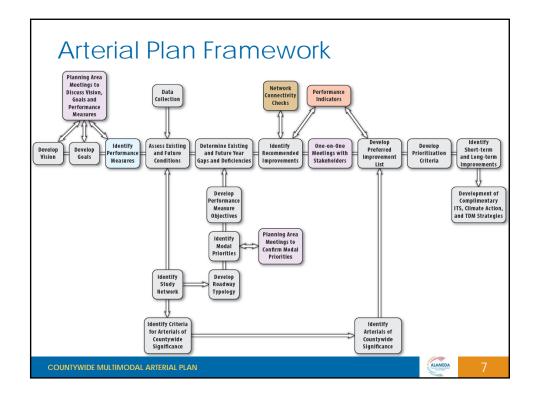


# Future of Alameda County

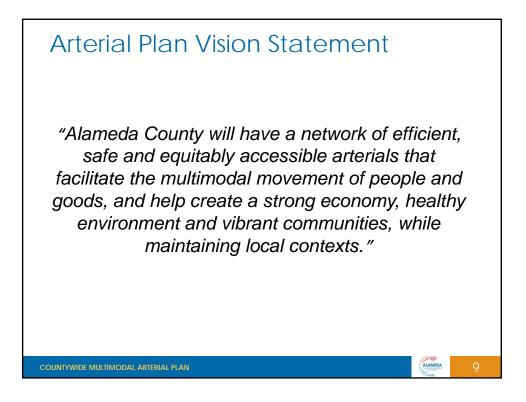
- By 2040:
  - ✓ 32% growth in population
  - ✓ 36% growth in employment
  - ✓ 100% increase in proportion of seniors (age 65+)
  - ✓ 18% households with no vehicle
- Aggressive emissions regulations and targets
- Meeting multimodal transportation demand will be challenging in the context of:
  - ✓ Economy
  - ✓ Environment
  - ✓ Equity
- VMT per capita likely to remain stable or decrease











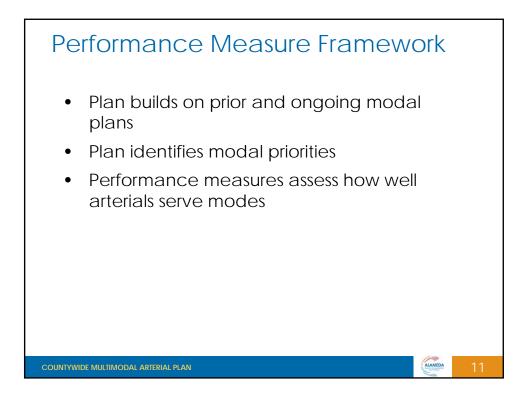
# Arterial Plan Goals

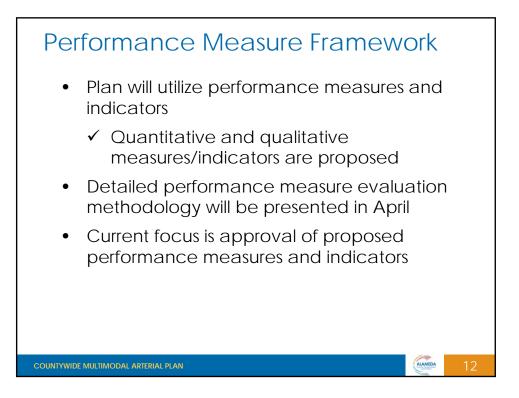
The vision is supported by five goals:

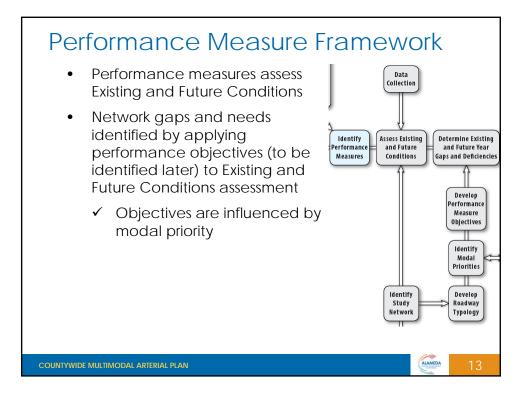
- Multimodal
  - ✓ High quality, well-maintained and reliable
- Accessible and Equitable
   ✓ Complete community
- Connected Across the County and Region
   ✓ Seamless connections supportive of land use
- - ✓ ITS technology and leverage resources
- Safe, Healthy and Vibrant
   ✓ Safety, air quality and community context

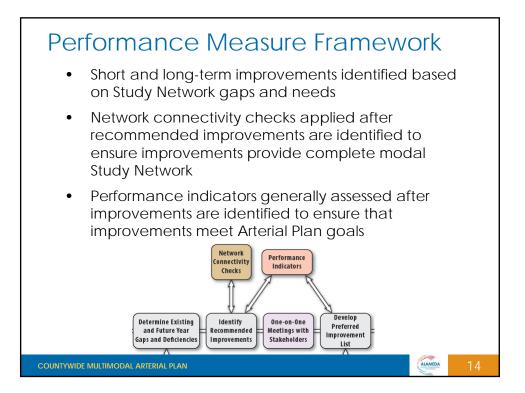
And two supporting principles:

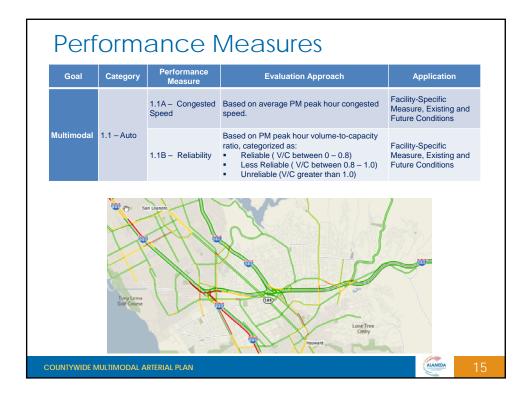
- Support Strong Economy
- Adaptable and Resilient

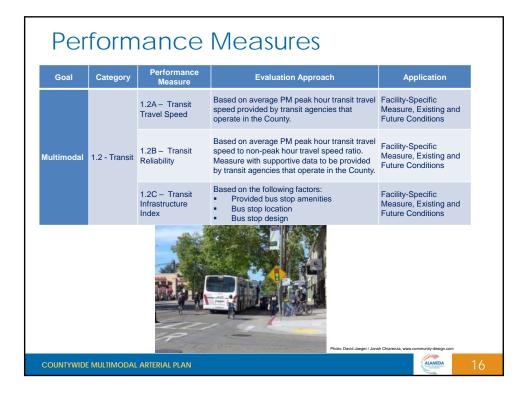


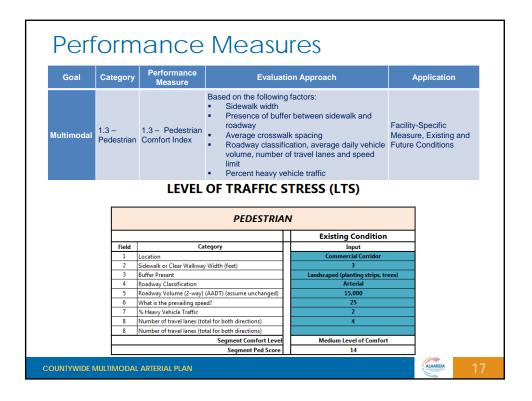




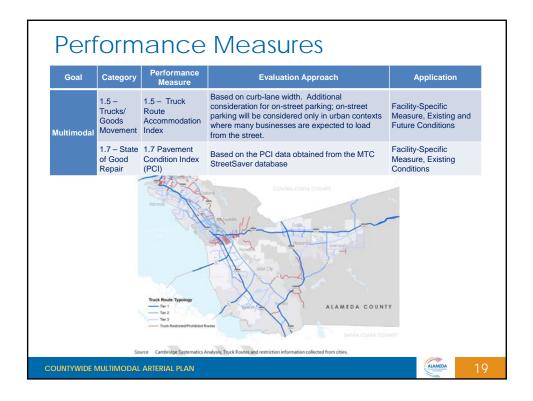


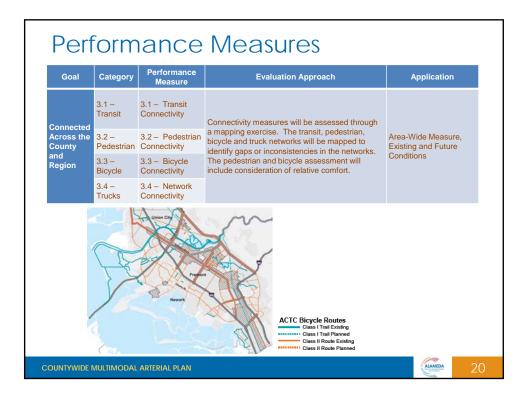




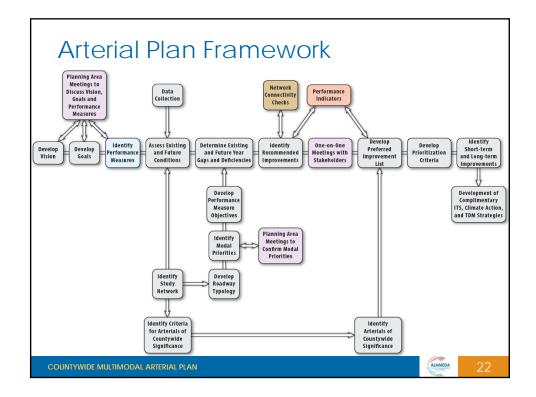


Perf	ori	m	ance	Measu	res		
Goal	Catego	ory	Performance Measure	Evaluatio	on Approach	Applicat	ion
Multimodal	1.4 – Bicycle		1.4 – Bicycle Comfort Index	Application of the Level of Traffic Stress (LTS) methodology, which is based on the type of bicycle facility provided and separation from vehicle travel lanes. LTS methodology classifies roadway segments into one of four levels of traffic stress, which are termed as LTS1 through LTS4. Groups of cyclists are categorized by how much stress they will tolerate in different environments.		Facility-Specific Measure, Exist Future Conditic	ing and
			LEVE	L OF TRAFFIC S			
					Existing Condition		
		Field 1	Made construction	Category	Input Mixed-Flow		
		2	Mode separation Is this a residential stree	at?	No		
		3	Is this a residential street? Adjacent parking		Yes		
		4	Lanes in analysis direction		2		
		5		may restrict passing vehicles)?	Raised		
		6	Is there a center line?				
		7	What is the prevailing s	speed?	25		
		8	Bike Lane + Parking Wi				
		9		e blockages occur? (default =			
		-	frequent, buffered = ra				
				Segment Comfort Level	Medium Level of Comfort		
	1			Segment Bike Score	2		
						South the	

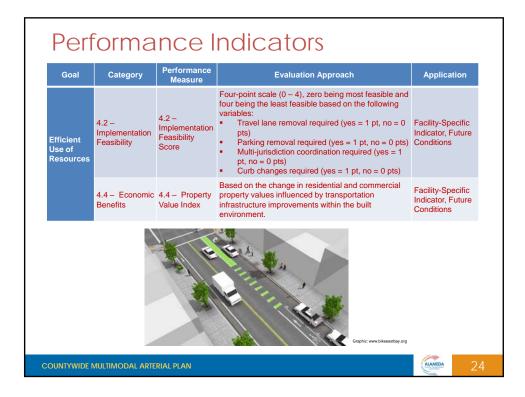


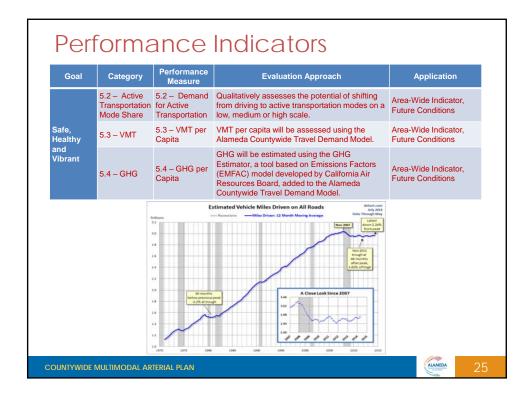


Goal	Category	Performance Measure	Evaluation Approach	Application
Efficient Use of Resources	4.1 – Efficient Use of Operations Funding	4.1 – Operating Cost Effectiveness	<ul> <li>Based on the ratio of improvement operating costs to existing facility operating costs:</li> <li>Develop unit operating costs for cross-sectional elements, including maintenance costs</li> <li>Estimate operating costs to maintain existing cross-section (O<sub>E</sub>)</li> <li>Estimate operating costs to maintain preferred cross-sectional improvements (O<sub>P</sub>)</li> <li>Operating Cost Effectiveness = O<sub>P</sub>/O<sub>E</sub></li> </ul>	Facility- Specific Measure, Future Conditions
	4.3 – ITS Infrastructure	4.3 – Coordinated Technology	<ul> <li>Four-point scale (0 – 3) based on the level of ITS investment defined by built infrastructure. Consideration for coordination with adjacent jurisdictions and/or Caltrans, as applicable:</li> <li>0: no ITS infrastructure</li> <li>1: basic investment ITS network</li> <li>3: high investment ITS network</li> </ul>	Facility- Specific Measure, Existing and Future Conditions
Safe, Healthy and Vibrant	5.1 – Safety	5.1 – Collision Rates	Using the SWITRS database and existing traffic volumes, the following collision rates will be calculated: Total collisions per million vehicle miles Total fatal collisions per million vehicle miles	Facility- Specific Measure, Existing Conditions



Goal	Category	Performance Measure	Evaluation Approach	Application
Multimodal	1.6 – Enhanced Mobility	1.6 – Non-Auto Transportation Mode Share	Qualitative assessment of cross-sectional improvements on likelihood of changes to transit, pedestrian, and bicycle travel (proxy for person throughput).	Area-Wide Indicator, Existing and Future Conditions
Accessible and Equitable	2.1 – Social Equity	2.1 – Benefit to Communities of Concern	After short and long-term improvements are identified, a ratio will be estimated by dividing the number of arterial miles of identified improvements within Communities of Concern (CCC) by the number arterial miles of all identified improvements benefitting each jurisdiction. For Transit, number of population benefitted within CCC versus overall population benefitted in the County will be used.	Area-Wide Indicator, Future Conditions





## Study and Arterial Networks

### Study Network

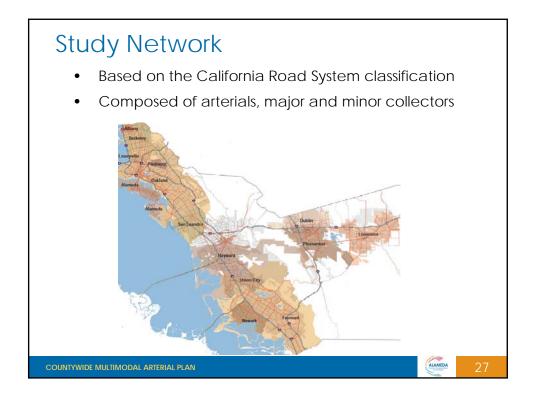
- Layered network
  - ✓ 700 miles of arterials
  - ✓ 500 miles of collectors
- Used for data collection and analysis to identify gaps, needs and recommended improvements

#### **Arterial Network**

• Arterial Network represents *Arterials of Countywide Significance* (Subset of Study Network)

ALAMED

 Short and long-term improvements will focus on Arterial Network



Arterial Network					
Mode	Arterials of Countywide Significance Network Selection Criteria				
Auto	<ul> <li>CMP Network</li> <li>MTS Network</li> <li>State Route Network (Non-Freeway)</li> <li>Roads that provide access to freeway interchanges</li> <li>Other considerations:         <ul> <li>Rural roads with an appropriate average daily traffic (ADT) volume threshold</li> <li>County connectors with an appropriate ADT volume threshold</li> </ul> </li> </ul>				
Transit	<ul> <li>AC Transit, LAVTA and Union City Transit major corridors</li> <li>Cross-Town Routes as identified by AC Transit</li> </ul>				
Bicycle	Countywide Bicycle Plan - Vision Network				
Pedestrian	<ul> <li>Countywide Pedestrian Plan – Vision Network</li> <li>Other considerations:         <ul> <li>PDAs not included in the Vision Network</li> <li>Communities of Concern areas not included in the Vision Network</li> </ul> </li> </ul>				
Truck	<ul> <li>Tier 1 Truck Routes, as appropriate</li> <li>Tier 2 Truck Routes, as appropriate</li> <li>Other considerations: <ul> <li>o</li> <li>Tier 3 Truck Routes</li> </ul> </li> </ul>				
COUNTYWIDE	/ULTIMODAL ARTERIAL PLAN 28				

