#### Evaluation Measures Background

- General indicators of overall system:
  - Mobility Performance, i.e. travel time
  - Mode Choice
  - Travel volume
- Not specific to corridor or project.
- Useful for overall comparison of LRTP Alternatives

#### **Evaluation Measures**

Vehicle Miles Traveled (VMT) & Vehicle Hours Traveled (VHT)

Measures	2005	2035 E+C	2035 LRTP	2005-2035 E+C Change	2005-2035 LRTP Change	2035 E+C - 2035 LRTP Change
1.0 Performance Measures						
1.1 Total VMT (daily)	10,673,559	16,660,440	16,934,762	( 56%	59%	2%
1.2 Total VHT (daily)	234,968	441,051	386,106	88%	64%	-12%
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- VMT and VHT will dramatically increase in the Existing-plus-Committed (E+C) scenario.
- VHT growth outpaces VMT growth.
- VMT growth persists with the implementation of the 2030 LRTP network.
- VHT growth is greatly reduced with the implementation of the 2030 LRTP network

# Evaluation Measures Average Travel Time

Measures  1.0 Performance Measures	2005	2035 E+C	2035 LRTP	2005-2035 E+C Change	2005-2035 LRTP Change	2035 E+C - 2035 LRTP Change
1.5 Average Travel Time - All Trips (min.)	15	17	16	14%	8%	_5%
1.6 Average Travel Time - Work Trips (min.)	19	26	22	32%	16%	-12%
1.7 Peak Average Travel Time - All Trips (min.)	17	20	18	23%	11%	-10%

 Average Travel Time increases, and most significantly for work trips and peak trips in the E+C scenario.

 The 2030 LRTP scenario reduces the Average Travel Time growth for all trip types, especially work trips and peak trips.

# Evaluation Measures Congestion

	Measures	2005	2035 E+C	2035 LRTP	2005-2035 E+C Change	2005-2035 LRTP Change	2035 E+C - 2035 LRTP Change
1.0	Performance Measures						
1.9	Percent of VMT Congested - All Day						
1.91	- Freeway	2.30%	7.10%	2.50%	209%	9%	<b>/</b> -65%
1.92	- Arterial	1.90%	9.20%	2.60%	384%	37%	-72%
1.9.3	- All Facilities	1.80%	7.30%	2.50%	306%	39%	-66%
1.10	Percent of VMT Congested - Peak						
1.10.1	- Freeway	4.10%	11.10%	4.20%	171%	2%	-62%
1.10.2	- Arterial	3.10%	14.10%	3.30%	355%	6%	-77%
1.10.3	- All Facilities	3.00%	11.50%	3.90%	283%	30%	-66%
						'	

 The percent of VMT in congestion increases about two-fold to four-fold for all road types in the E+C scenario.

- The implementation of the 2030 LRTP network greatly reduces congestion growth.
- Arterial Congestion growth is greatest, while freeway is the least.

# Evaluation Measures Mode Share – All Trips and Peak Trips

	Measures	2005	2035 E+C	2035 LRTP	2005-2035 E+C Change	2005-2035 LRTP Change	2035 E+C - 2035 LRTP Change
1.0	Performance Measures						
2.1	Percent Mode Choice - All Trips						
2.1.1	- Drive alone (single occupant vehicle -SOV)	54.0%	54.6%	54.2%	1%	0%	-1%
2.1.2	- Carpool (Share ride)	36.6%	36.7%	36.2%	0%	-1%	-1%
2.1.3	- Bus	2.4%	1.8%	2.5%	(-23%)	) (4%	36%
2.1.4	- Rail	0.0%	0.0%	0.3%	N/A	NA	N/A
2.1.5	- Non-motorized (Bike and Walk)	7.1%	6.9%	6.8%	-3%	-4%	-1%

- For Mode Choice, the travel model is fairly insensitive to changes in population and employment, and network (E+C and 2030 LRTP scenarios)
- Transit Mode Choice decreases in the E+C scenario because most population and employment increases occur in areas that currently do not have transit service.

 Transit Mode Choice increases only moderately with the implementation of the bus and rail transit in the 2030 LRTP network.