2045 MTP -- Deficiency Analysis

Performance Measures for the DCHC MPO

	Name =	Current	E+C	2013 to 2045 E+C Change
	SE Data ==>	2013	2045	
	Transportation Network ==>	2013	E+C	
1	**Performance Measures**			
1.1.1	Total Vehicle Miles Traveled (VMT-daily)	12,698,821	21,108,837	66%
1.1.1a	Total Vehicle Miles Traveled (VMT-per capita)	30	31	3%
1.2.1	Total Vehicle Hours Traveled (VHT-daily)	314,735	665,310	111%
1.2.1a	Total Vehicle Hours Traveled (VHT-per capita)	0.75	0.99	31%
1.3	Average Speed by Facility (miles/hour)			
1.3.1	- Freeway	58	48	-17%
1.3.2	- Arterial	35	30	-15%
1.3.3	- All Facility	47	40	-16%
1.4	Peak Average Speed by Facility (miles/hour)			
1.4.1	- Freeway	57	45	-20%
1.4.2	- Arterial	34	28	-18%
1.4.3	- All Facility	46	37	-19%
1.5	Daily Average Travel Length - All Person Trips			
1.5.1	- Travel Time (minutes)	13	16	24%
1.5.2	- Travel Distance (miles)	6.1	6.1	0%
1.6	Daily Average Travel Length - Work Trips			
1.6.1	- Travel Time	20	24	22%
1.6.2	- Travel Distance - Work Trips	10.9	10.1	-7%
1.7	Peak Average Travel Length - All Person Trips			
1.7.1	- Peak Travel Time	15	18	23%
1.7.2	- Peak Travel Distance	7.1	6.7	-5%
1.8	Daily Avg. Travel Length - Commercial Vehicle Trips			
1.8.1	- Travel Time	10	11	12%
1.8.2	- Travel Distance	6.7	6.5	-2%
1.9	Daily Average Travel Length - Truck Trips			
1.9.1	- Travel Time	11	13	12%
1.9.2	- Travel Distance	7.8	7.7	-2%
1.10	Hours of Delay (daily)	25,323	171,007	575%
1.10a	Minutes of Delay (daily) (per capita)	4	15	320%
1.10.1	Truck Hours of Delay (daily)	1,216	10,643	775%
1.11	Percent of Congested VMT (volume > capacity) - All Day			
1.11.1	- Freeway	1%	12%	1140%
1.11.2	- Arterial	2%	15%	689%
1.11.3	- All Facility	1%	12%	1000%
1.12	Percent of Congested VMT (volume > capacity) - Peak			
1.12.1	- Freeway	1%	20%	1400%
1.12.2	- Arterial	3%	22%	616%
1.12.3	- All Facility	2%	18%	1038%
1.12.4	- Designated truck routes	3%	17%	546%
1.12.5	- Facilities w/bus routes	2%	18%	738%

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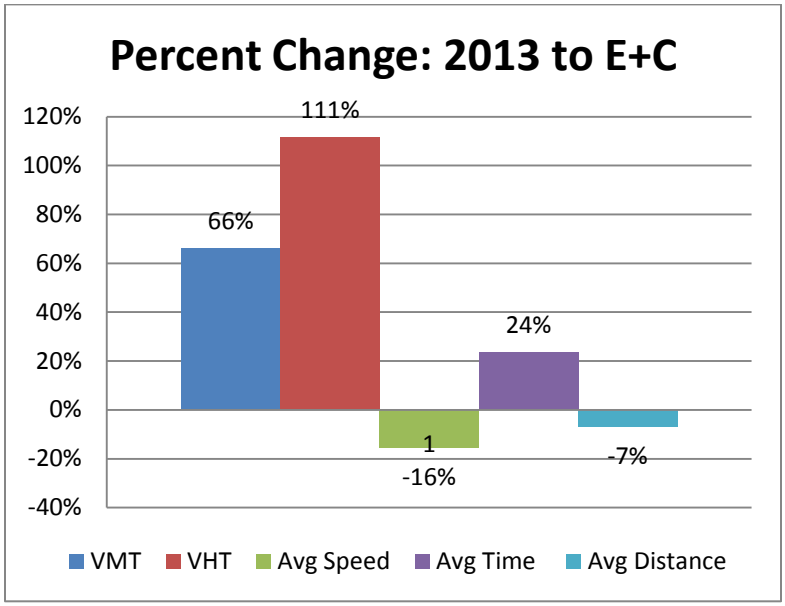
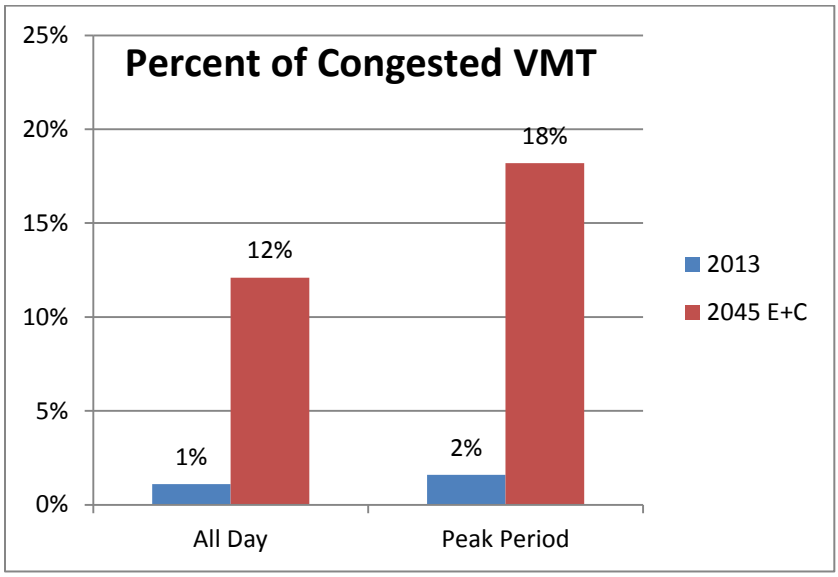
	SE Data ==>	2013	2045	
	Transportation Network ==>	2013	E+C	
2	**Mode Share Measures**			
2.1	All Trips - Daily			
2.1.1	- Drive alone (single occupant vehicle -SOV)	874,455	1,389,181	59%
2.1.2	- Carpool (Share ride)	689,154	1,096,707	59%
2.1.3	- Bus	52,350	68,187	30%
2.1.4	- Rail	-	-	
2.1.5	- Non-Motorized (Bike and Walk)	291,735	503,083	72%
2.2	Work Trips - Daily			
2.2.1	- Drive alone (single occupant vehicle -SOV)	190,325	305,947	61%
2.2.2	- Carpool (Share ride)	23,413	35,811	53%
2.2.3	- Bus	11,930	16,207	36%
2.2.4	- Rail	-	-	
2.2.5	- Non-Motorized (Bike and Walk)	12,869	27,085	110%
2.2a	Work Trips - Mode Share			
2.2.1a	- Drive alone (single occupant vehicle -SOV)	80%	79%	0%
2.2.2a	- Carpool (Share ride)	10%	9%	-5%
2.2.3a	- Bus	5%	4%	-16%
2.2.4a	- Rail	N/A	N/A	N/A
2.2.5a	- Non-Motorized (Bike and Walk)	5%	7%	30%
3	**Transit Measures**			
3.1	Transit Ridership (regionwide)			
3.1.1	- TTA (rail not included in 2013 and E+C)	11,911	20,374	71%
3.1.2	- CAT	16,923	36,407	115%
3.1.3	- CHT	32,561	41,831	28%
3.1.4	- DATA	21,142	27,466	30%
3.1.5	- NCSU	17,425	20,438	17%
3.1.6	- DUKE	8,989	9,579	7%
3.1.7	- OPT	N/A	N/A	N/A
3.1.8	- CARY	1,862	3,110	67%
3.1.9	Total	110,811	159,200	44%
3.2	Total Rail Ridership	N/A	N/A	N/A
4	**Demographic Measures**			
4.1	Population	418,123	672,377	61%
4.2	Employment	257,781	449,898	75%
4.3	Total Daily Person Trips	1,907,694	3,057,158	60%
4.3.1	Work Person Trips	238,537	385,050	61%
4.4	Total Daily CV (commercial vehicle) Trips	121,623	202,550	67%
4.4.1	Daily Truck Trips	50,122	84,686	69%

N/A = measures is not applicable, e.g., there is no rail transit in the 2013 scenario.

2045 MTP – Deficiency Analysis – Performance Measures

Changes in Mobility Measures





2045 MTP – Deficiency Analysis – Performance Measures

Mode Share