

2050 MTP -- Deficiency Analysis
Performance Measures for the **DCHC MPO**

	Name =	Current	E+C	2016 to
	SE Data ==>	2016	2050	2050 E+C
	Transportation Network ==>	2016	E+C	Change
1	Performance Measures			
1.1.1	Total Vehicle Miles Traveled (VMT-daily)	14,516,717	22,667,044	56%
1.1.1a	Total Vehicle Miles Traveled (VMT-per capita)	33	34	4%
1.2.1	Total Vehicle Hours Traveled (VHT-daily)	365,641	726,741	99%
1.2.1a	Total Vehicle Hours Traveled (VHT-per capita)	0.82	1.09	33%
1.3	Average Speed by Facility (miles/hour)			
1.3.1	- Freeway	59	48	-19%
1.3.2	- Arterial	35	30	-13%
1.3.3	- All Facility	46	39	-16%
1.4	Peak Average Speed by Facility (miles/hour)			
1.4.1	- Freeway	57.2	45	-21%
1.4.2	- Arterial	34	28	-16%
1.4.3	- All Facility	45	36	-19%
1.5	Daily Average Travel Length - All Person Trips			
1.5.1	- Travel Time (minutes)	13	16	22%
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	25	26%
1.6.2	- Travel Distance - Work Trips	10.4	10.2	-2%
1.7	Peak Average Travel Length - All Person Trips			
1.7.1	- Peak Travel Time	15	19	26%
1.7.2	- Peak Travel Distance	7.0	7.1	2%
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	13%
1.9.2	- Travel Distance	7.9	7.8	-1%
1.10	Hours of Delay (daily)	37,909	195,917	417%
1.10a	Minutes of Delay (daily) (per capita)	5	18	246%
1.10.1	Truck Hours of Delay (daily)	1,939	10,922	463%
1.10.2	Truck Minutes of Delay (per trip)	1	3	271%
1.11	Percent of Congested VMT (volume > capacity) - All Day			
1.11.1	- Freeway	6%	52%	849%
1.11.2	- Arterial	5%	18%	296%
1.11.3	- All Facility	5%	33%	607%
1.12	Percent of Congested VMT (volume > capacity) - Peak			
1.12.1	- Freeway	10%	61%	506%
1.12.2	- Arterial	7%	26%	245%
1.12.3	- All Facility	8%	39%	395%
1.12.4	- Designated truck routes	6%	26%	340%

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1.12.5	- Facilities w/bus routes	8%	49%	532%
2	Mode Share Measures			
2.2a	Work Trips - Mode Share			
2.2.1a	- Drive alone (single occupant vehicle -SOV)	78%	79%	1%
2.2.2a	- Carpool (Share ride)	11%	10%	-8%
2.2.3a	- Bus	6%	4%	-19%
2.2.4a	- Rail	N/A	N/A	N/A
2.2.5a	- Non-Motorized (Bike and Walk)	5%	6%	20%
2.3	All Trips - Mode Share			
2.3.1	- Drive alone (single occupant vehicle -SOV)	45%	44%	-2%
2.3.2	- Carpool (Share ride)	37%	36%	-2%
2.3.3	- Bus	2%	2%	-1%
2.3.4	- Rail	0%	0%	N/A
2.3.5	- Non-Motorized (Bike and Walk)	15%	17%	11%
3	Transit Measures			
3.1	Transit Ridership (regionwide)			
3.1.1	- GoTriangle (rail not included in 2016 and E+C)	17,035	30,363	78%
3.1.2	- GoRaleigh	23,853	62,385	162%
3.1.3	- CHT	29,797	59,794	101%
3.1.4	- GoDurham	23,286	26,842	15%
3.1.5	- NCSU	11,873	18,999	60%
3.1.6	- DUKE	8,018	12,727	59%
3.1.7	- OPT	576	109	-81%
3.1.8	- GoCary	2,597	3,688	N/A
3.1.9	Total	117,036	214,908	84%
3.2	Total Rail Ridership	N/A	N/A	N/A
4	Demographic Measures			
4.1	Population	446,275	666,885	49%
4.2	Employment	289,221	518,914	79%
4.3	Total Daily Person Trips	2,068,634	3,322,339	61%
4.3.1	Work Person Trips	258,122	415,336	61%
4.4	Total Daily CV (commercial vehicle) Trips	133,002	202,134	52%
4.4.1	Daily Truck Trips	54,882	82,288	50%

N/A = measures is not applicable, e.g., there is no rail transit in the 2016 scenario.

Note: Values are rounded so some math operations will appear incorrect, e.g., 90 - 89 = 0

Date Revised: 4.21.21