

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
<b>1</b>	<b>Performance Measures</b>				
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%
<b>1.3</b>	<b>Average Speed by Facility (miles/hour)</b>				
1.3.1	- Freeway		59	48	-19%
1.3.2	- Arterial		35	30	-13%
1.3.3	- All Facility		46	39	-16%
<b>1.4</b>	<b>Peak Average Speed by Facility (miles/hour)</b>				
1.4.1	- Freeway		57.2	45	-21%
1.4.2	- Arterial		34	28	-16%
1.4.3	- All Facility		45	36	-19%
<b>1.5</b>	<b>Daily Average Travel Length - All Person Trips</b>				
1.5.1	- Travel Time (minutes)		13	16	22%
1.5.2	- Travel Distance (miles)		6.1	6.1	0%
<b>1.6</b>	<b>Daily Average Travel Length - Work Trips</b>				
1.6.1	- Travel Time		20	25	26%
1.6.2	- Travel Distance - Work Trips		10.4	10.2	-2%
<b>1.7</b>	<b>Peak Average Travel Length - All Person Trips</b>				
1.7.1	- Peak Travel Time		15	19	26%
1.7.2	- Peak Travel Distance		7.0	7.1	2%
<b>1.8</b>	<b>Daily Avg. Travel Length - Commercial Vehicle Trips</b>				
1.8.1	- Travel Time		10	11	12%
1.8.2	- Travel Distance		6.7	6.5	-2%
<b>1.9</b>	<b>Daily Average Travel Length - Truck Trips</b>				
1.9.1	- Travel Time		11	13	13%
1.9.2	- Travel Distance		7.9	7.8	-1%
<b>1.10</b>	<b>Hours of Delay (daily)</b>		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%
<b>1.11</b>	<b>Percent of Congested VMT (volume &gt; capacity) - All Day</b>				
1.11.1	- Freeway		6%	52%	849%
1.11.2	- Arterial		5%	18%	296%
1.11.3	- All Facility		5%	33%	607%
<b>1.12</b>	<b>Percent of Congested VMT (volume &gt; capacity) - Peak</b>				
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%
<b>2</b>	<b>Mode Share Measures</b>			
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%
<b>3</b>	<b>Transit Measures</b>			
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
<b>4</b>	<b>Demographic Measures</b>			
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