2050 MTP -- Deficiency Analysis Performance Measures by County

	County =	Chatham*	Durham	Orange	Chatham*	Durham	Orange	Chatham*	Durham	Orange
	SE Data ==>	Chatham	2016	Orange	Chathain	2050	Orange	Chathain	2016 - 2050	Orange
	Transportation Network ==>	2016			2050 E+C			2016 - 2050 Change		
1 D	Performance Measures		2010						Change	
	otal Vehicle Miles Traveled (VMT-daily)	1,887,084	9,579,639	5,212,655	4,210,670	14,882,245	8,210,790	123%	55%	58%
	otal Vehicle Miles Traveled (VMT-per capita)	41	32	37	41	32	42	-1%	1%	16%
	otal Vehicle Hours Traveled (VHT-daily)	38,290	246,640	122,350	104,498		240,739	173%	98%	97%
	otal Vehicle Hours Traveled (VHT-per capita)	0.84	0.83	0.86	1.02	1.06	1.24	21%	28%	45%
	verage Speed by Facility (miles/hour)									
	- Freeway	71	57	62	68	49	46	N/A	-14%	-27%
1.3.2	- Arterial	54	34	37	48	29	33	-10%	-15%	-9%
1.3.3	- All Facility	54	45	49	48	39	39	-10%	-14%	-20%
<u>1.4</u> P	Peak Average Speed by Facility (miles/hour)					6				
1.4.1	- Freeway	71	55	61	68	45	45	N/A	-18%	-26%
1.4.2	- Arterial	53	33	36	47	27	32	-12%	-18%	-11%
1.4.3	- All Facility	53	44	48	47	36	39	-12%	-18%	-20%
	Daily Average Travel Length - All Person Trips									
1.5.1	- Travel Time (minutes)	16	13	14	19	16	16	21%	22%	20%
1.5.2	- Travel Distance (miles)	8.9	6.0	6.3	8.7	6.0	6.4	-2%	0%	1%
	Daily Average Travel Length - Work Trips									
	- Travel Time	28	18	21	37	23	26	31%	28%	25%
	- Travel Distance - Work Trips	17.9	9.4	11.8	17.9	9.5	11.7	0%	1%	-1%
	eak Average Travel Length - All Person Trips									
	- Peak Travel Time	14	15	14	14	19	18	-1%	26%	26%
	- Peak Travel Distance	8.0	7.3	5.9	6.1	7.3	6.2	-24%	1%	6%
	Daily Avg. Travel Length - Commercial Vehicle Tri	,								
	- Travel Time	12	10	10	11	11	11	-1%		9%
	- Travel Distance	8.9	6.7	7.1	7.7	6.6	6.7	-14%	-2%	-6%
	Daily Average Travel Length - <u>Truck</u> Trips									
	- Travel Time	14	11	12	15	13	13	4%		10%
	- Travel Distance	11.1	7.8	8.5			8.1	-10%		-5%
	lours of Delay (daily)	978	26,871	11,003	18,319	133,278	60,993	1773%		454%
	Ainutes of Delay (daily) (per capita)	1	1 207	5	11	17	19	730%	ļ	308%
	ruck Hours of Delay (daily)	39 W Davi	1,297	678	535	6,425	4,870	1272%	395%	618%
	Percent of Congested VMT (volume > capacity) - A	0%	7%	2%	0%	39%	81%	N/A	429%	4411%
<u> </u>	- Freeway									
	- Arterial	0%	5%	4%	7%		12%	N/A	330%	179%
	- All Facility	0%	6%	3%	6%	27%	43%	N/A	389%	1608%
	Percent of Congested VMT (volume > capacity) - F	<u>'eak</u> 0%	120/	3%	0%	F20/	78%	NI/A	200%	22640/
	- Freeway - Arterial	0% 0%	13% 8%	3% 7%			78% 17%	N/A N/A		2264% 148%
	- All Facility	0%	10%	7% 4%	11% 8%		41%	N/A N/A		148% 863%
1.12.4	- All Facility - Designated truck routes	0%	10% 6%	3%	0%		78%	N/A N/A	······································	2500%
	- Facilities w/bus routes	0%	9%	5%	6%		63%	N/A N/A		1206%
	Aode Share Measures	070	570	3%	0%	4270	03%	IV/A	330%	1200%
	All Trips - Daily									
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2050 MTP -- Deficiency Analysis

Performance Measures by County

	County =	Chatham*	Durham	Orange	Chatham*	Durham	Orange	Chatham*	Durham	Orange		
	SE Data ==>	2016				2050			2016 - 2050			
	Transportation Network ==>	2016			E+C				Change			
2.1.1	- Drive alone (single occupant vehicle -SOV)	82,753	657,260	269,675	188,484	1,078,082	371,330	128%	64%	38%		
2.1.2	- Carpool (Share ride)	68,032	526,119	229,627	158,423	874,002	313,164	133%	66%	36%		
2.1.3	- Bus	1,579	26,533	24,224	2,972	35,280	44,937	88%	33%	86%		
2.1.4	- Rail	-	-	-	-	-	-	N/A	N/A	N/A		
2.1.5	- Non-Motorized (Bike and Walk)	7,038	159,620	150,415	17,035	337,666	214,621	142%	112%	43%		
<u>2.2</u>	<u> Work Trips - Daily</u>		Ĭ									
2.2.1	- Drive alone (single occupant vehicle -SOV)	25,716	134,785	62,852	58,164	233,388	86,912	126%	73%	38%		
2.2.2	- Carpool (Share ride)	3,612	20,240	8,513	7,533	31,800	10,390	109%	57%	22%		
2.2.3	- Bus	828	7,840	6,218	1,544	10,947	6,838	86%	40%	10%		
2.2.4	- Rail	-	-	-	-	-	-	N/A	N/A	N/A		
2.2.5	- Non-Motorized (Bike and Walk)	360	8,363	3,989	1,219	17,878	5,828	239%	114%	46%		
<u>2.2a</u>	Work Trips - Mode Share											
2.2.1a	- Drive alone (single occupant vehicle -SOV)	84%	79%	77%	85%	79%	79%	1%	1%	3%		
2.2.2a	- Carpool (Share ride)	12%	12%	10%	11%	11%	9%	-7%	-8%	-9%		
2.2.3a	- Bus	3%	5%	8%	2%	4%	6%	-17%	-19%	-18%		
2.2.4a	- Rail	0%	0%	0%	0%	0%	0%	N/A	N/A	N/A		
2.2.5a	- Non-Motorized (Bike and Walk)	1%	5%	5%	2%	6%	5%	51%	24%	8%		
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%				
3.1.8	- GoCary	2,597			3,688							
3.1.9	Total	117,036			214,908			84%				
3.2	Total Rail Ridership	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
4	Demographic Measures											
4.1	Population	45,556	297,573	142,581	102,833	459,669	193,634	126%	54%	36%		
4.2	Employment	11,358	216,250	72,027	24,423	401,567	116,545	115%	86%	62%		
4.3	Total Daily Person Trips	159,402	1,369,532	673,941	366,914	2,325,030	944,052	130%	70%	40%		
4.3.1	Work Person Trips	30,516	171,228	81,572	68,460	294,013	109,968	124%	72%	35%		
4.4	Total Daily CV (commercial vehicle) Trips	10,667	97,563	35,282	20,351	150,998	51,258	91%	55%	45%		
4.4.1	Daily Truck Trips	4,108	41,097	14,033	7,281	62,458	20,525	77%	52%	46%		

Notes:

N/A = measure is not applicable, e.g., there is no rail transit in the scenario; value cannot be divided by zero.

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

Date revised: 4.21.21

^{*} Chatham County values are for the portion of the county that is within the Triangle Regional Model area.