



AV MODEL RESULTS

September 13, 2018

Trip-based model
Activity-based model

Scenario: No Regulation for Ridesharing

Performance Metric		A	B	C	D	E	F	G	H	I	J	K	L	AVG
AUTO	Vehicle Trips	19%	25%	26%	15%	14%	34%	16%	20%	16%	10%	24%	17%	20%
	Drive Alone Trips	19%	25%	26%	15%	22%	46%	14%	22%	16%	11%	22%	16%	21%
	HOV Trips	22%	28%	28%	17%	27%	49%	20%	25%	18%	8%	28%	20%	24%
	Vehicle Miles Traveled	46%	47%	68%	17%	28%	24%	15%	40%	8%	34%	37%	10%	31%
	Average Vehicle Trip Length	19%	18%	33%	1%	13%	-8%	-68%	16%	-7%	22%	11%	-6%	4%
	Vehicle Hours of Delay	26%	132%	23%	16%	38%	31%	60%	52%	148%	91%	53%	46%	60%
	Average Vehicle Occupancy	0%	-8%	0%	6%	1%	1%	0%	0%	0%	0%	-1%	1%	1%
TRANSIT	Transit Trips	16%	-20%	-43%	-39%	-39%	-24%	-12%	-35%	-36%	-58%	-36%	-39%	-30%
	Bus Transit Trips	13%	-26%	-47%	-35%	-26%	-23%	-9%	-34%	-40%	-61%			-29%
	Rail Transit Trips	38%	-13%	-24%	-40%	-42%	-24%	-19%	-30%	-12%	-52%			-22%
	Long Distance Transit Trips (5+ miles)	47%	-19%	-34%	-30%	-45%	5%	-77%	-32%	-31%	-32%			-25%
	Short Distance Transit Trips (<5 miles)	-11%	-24%	-57%	-55%	-23%	-38%	-8%	-40%	-23%	-42%			-32%

Scenario: 50% of AV Trips are Shared

Performance Metric		A	B	C	D	E	F	G	H	I	J	K	L	AVG
AUTO	Vehicle Trips	-7%	5%	-2%	1%	9%	8%	-2%	3%	-1%	-6%	-3%	16%	2%
	Drive Alone Trips	-40%	-35%	-37%	-40%	2%	-27%	-38%	-27%	-38%	-37%	-39%	12%	-29%
	HOV Trips	228%	144%	289%	76%	57%	86%	197%	141%	94%	68%	102%	30%	126%
	Vehicle Miles Traveled	16%	27%	43%	4%	20%	6%	1%	23%	1%	23%	6%	11%	15%
	Average Vehicle Trip Length	24%	20%	45%	3%	10%	-2%	-69%	20%	-4%	31%	9%	-5%	7%
	Vehicle Hours of Delay	8%	25%	1%	1%	9%	-32%	4%	9%	8%	34%	-13%	54%	9%
	Average Vehicle Occupancy	28%	15%	43%	21%	12%	28%	54%	23%	32%	27%	25%	3%	26%
TRANSIT	Transit Trips	16%	-20%	-43%	-39%	-40%	-24%	-74%	-37%	-41%	-54%	-32%	-41%	-36%
	Bus Transit Trips	13%	-26%	-47%	-35%	-28%	-23%	-71%	-37%	-44%	-56%			-35%
	Rail Transit Trips	38%	-13%	-24%	-40%	-43%	-24%	-82%	-34%	-16%	-50%			-29%
	Long Distance Transit Trips (5+ miles)	47%	-19%	-34%	-30%	-46%	5%	-149%	-40%	-35%	-39%			-34%
	Short Distance Transit Trips (<5 miles)	-11%	-24%	-57%	-55%	-24%	-38%	-70%	-43%	-24%	-45%			-39%