

#### NHTS Add-on for INRCOG MPO

September 2020 MPO/RPA Quarterly Meeting

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### **NHTS Add-on for INRCOG MPO**

- 1. Long-range, transit, and pedestrian planning
  - Use as a data source, quick facts
- 2. Comparing NHTS, ACS, and local survey data
  - Use case: Physical Activity Access project
- 3. Table Designer and Advanced Analytics Tool
   Use case: MET Transit route redesign



# Long-range, transit, and pedestrian planning

NHTS Add-on for INRCOG MPO



### Use in the 2045 LRTP Update

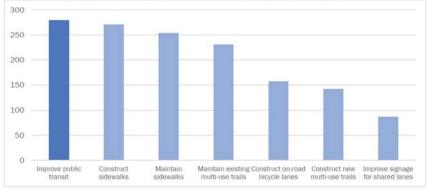
- Chapter 4: Transit
  - Between 2,963–5,761 persons in the MPO area have no household vehicles available.
  - Between 2,240–4,238 persons have a medical condition that results in them giving up driving.
  - Between 14.7–22.6 percent of households have used a bus for travel at least a few times a year.



#### Use in the 2045 LRTP Update

#### **Chapter 4: Transit** •

Figure 4.9: Responses to Which One Transportation Investment is Most Important to You



#### Use in the 2045 LRTP Update

#### • Chapter 4: Transit

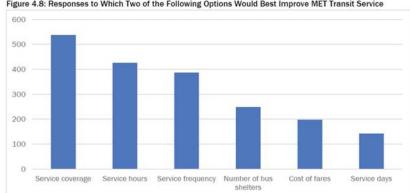


Figure 4.8: Responses to Which Two of the Following Options Would Best Improve MET Transit Service

#### Use in the 2045 LRTP Update

• Chapter 5: Bicycle and Pedestrian

#### **18,100** Miles walked daily by MPO residents<sup>1</sup>

#### 9,167

Residents have bicycled in the past week on average<sup>1</sup>

#### 53.7%

6.8%

trips1

Of bicycle trips are by people with at least a Bachelor's degree<sup>1</sup>

Of all trips are walking

### Use in the 2045 LRTP Update

#### • Chapter 5: Bicycle and Pedestrian

	Walking
0.5 %	4.6 %
1.2 %	6.8 %
1,774,000 trips	10,359,000 trips
5,370,000 miles	6,596,000 miles
3.03 miles	0.64 miles
22.33 minutes	17.03 minutes
9,167 residents	66,290 residents
	1.2 %         1,7 74,000 trips         5,370,000 miles         3.03 miles         22.33 minutes

1 -U.S. Census American Community Survey data (2012-2016) for Black Hawk County. All other values are from the 2017 NHTS Add-on for the MPO area.



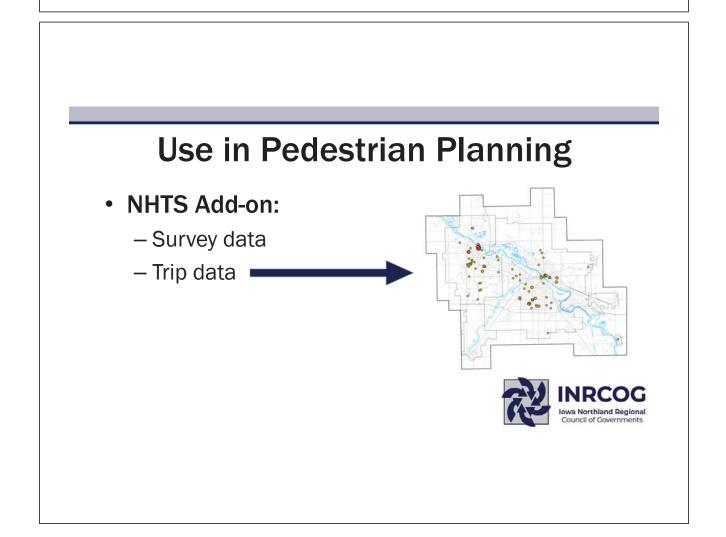
#### Use in the 2045 LRTP Update

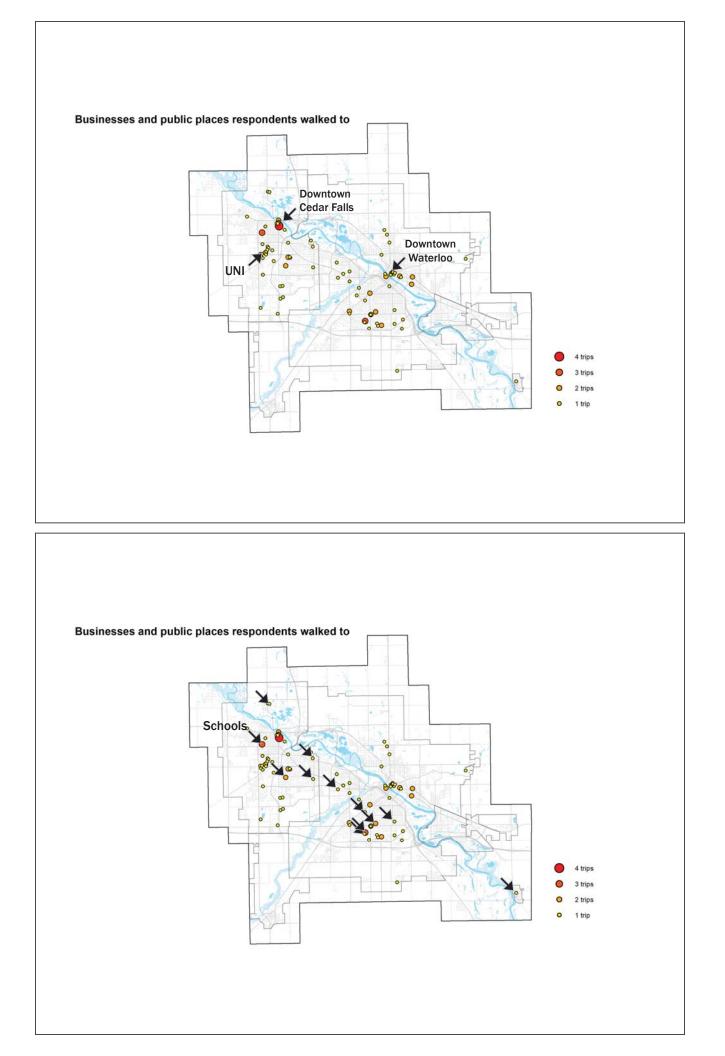
#### • Chapter 5: Bicycle and Pedestrian

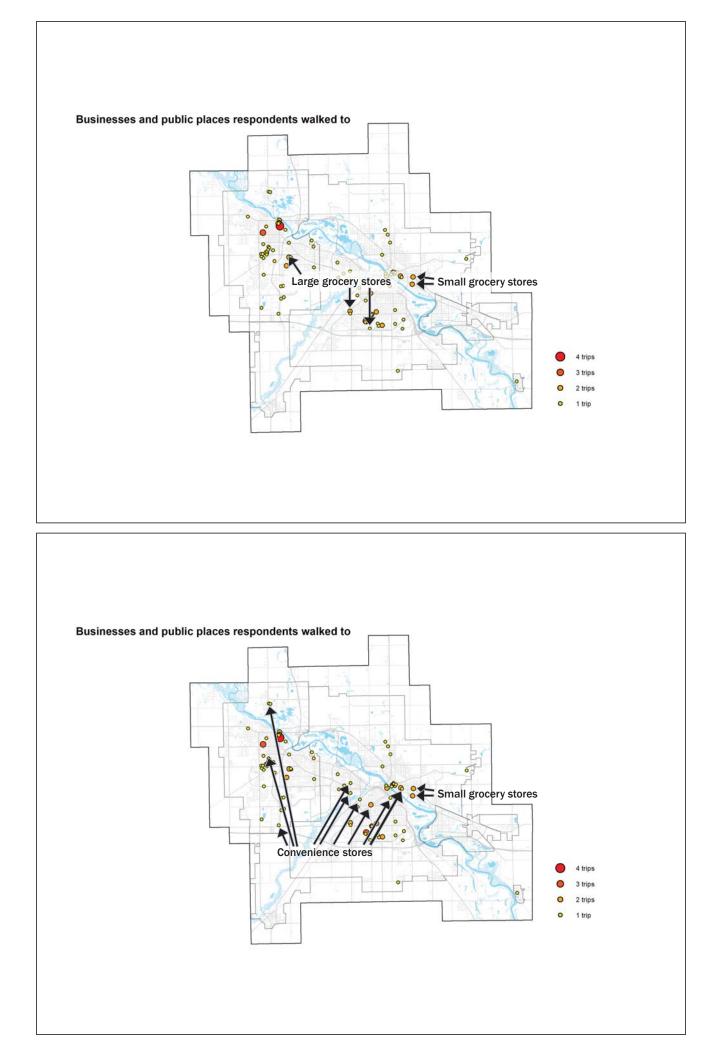
	Bicycling	Walking
Commute to work <sup>1</sup>	0.5 %	4.6 %
All trips	1.2 %	6.8 %
Annual person trips	1,774,000 trips	10,359,000 trips
Annual trip distance	5,370,000 miles	6,596,000 miles
Average trip distance	3.03 miles	0.64 miles
Average trip duration	22.33 minutes	17.03 minutes
Mode used in past 7 days	9,167 residents	66,290 residents

1 -U.S. Census American Community Survey data (2012-2016) for Black Hawk County. All other values are from the 2017 NHTS Add-on for the MPO area









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#### **Physical Activity Access Project**

- Led by the Iowa Dept of Public Health
- Four MPO/RPAs involved
- Focus on low-income seniors
- Funding through SNAP-Ed
  - Nutrition
  - Physical Activity





- Surveyed 97 residents of lowincome senior housing
  - Demographic questions
     (age group, race, English language)
  - Mode share, distance comfortable walking
  - Up to 3 destinations travel to most (a mini travel survey)





#### **Physical Activity Access Project**

#### 🚲 Bicycling rates

ACS	NHTS Add-on	PAA Project
Commute by bike	Bike a few times a year	Low-income seniors biked in past year
0.6%	41.6%	13.4%



🚇 Bus ridership		
ACS	NHTS Add-on	PAA Project
Commute by bus	Use transit a few times a year	Low-income seniors used transit in past year
0.5%	18.7%	42.3%



### **Physical Activity Access Project**

🗢 Car use

ACS	NHTS Add-on	PAA Project
<b>Commute</b> by car	<b>Use</b> car for travel a few times a year	Low-income seniors driven a car in past year
90.5%	97.2%	43.2%



Walking rates		
ACS	NHTS Add-on	PAA Project
Commute by walking	Walk <b>a few times a week</b> for travel	Low-income seniors walk a few times a week
3.8%	35.4%	46.4%



### Table Designer and Advanced Analytics Tool

NHTS Add-on for INRCOG MPO



### 2017 Table Designer

			● 5-day ● 7-day	
Analysis Variable	We'll never share your small with anyons effer. Households	Geography	Entire Region	
Statistics	Sample Size Sum Gel percent Row percent Column percent Column percent Column percent Exclude Missing (e.g., appropriate skip) Margin of Eror (15% confidence interval)			
Report Title	Optional			
	Algebra managari e desperatore carigo (p. m. de 11)			
Row Variable	HHFAMINC - Household income			

### 2017 Table Designer

2017 NHTS Number of Households Iowa Northlands Regional COG, 7-day weight Where HHFAMINC GT '-9' and BUS GT '-9'

		Num	ber of Househ	olds		
Household income	Frequency of Bus Use for Travel					
· · · · · · · · · · · · · · · · · · ·	Daily A few	times a week A few	times a month	A few times a year	Never	All
Less than \$10,000	123	162	552	674	1,864	3,374
\$10,000 to \$14,999	186	144	443	732	1,705	3,210
\$15,000 to \$24,999	215	95	64	642	3,968	4,984
\$25,000 to \$34,999	52		18	548	4,119	4,73
\$35,000 to \$49,999			77	892	5,390	6,355
\$50,000 to \$74,999	51	8		822	6,015	6,88
\$75,000 to \$99,999				325	5,317	5,643
\$100,000 to \$124,999	57			512	2,843	3,412
\$125,000 to \$149,999		66		193	1,627	1,88
\$150,000 to \$199,999				133	1,307	1,440
\$200,000 or more				47	1,195	1,243
All	684	466	1,154	5,520	35,350	43,17

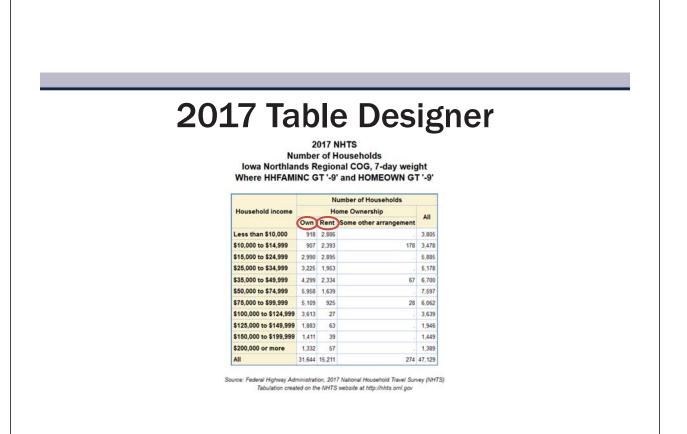
Source: Federal Highway Administration, 2017 National Household Travel Survey (NHTS) Tabulation created on the NHTS website at http://hhts.ornl.gov

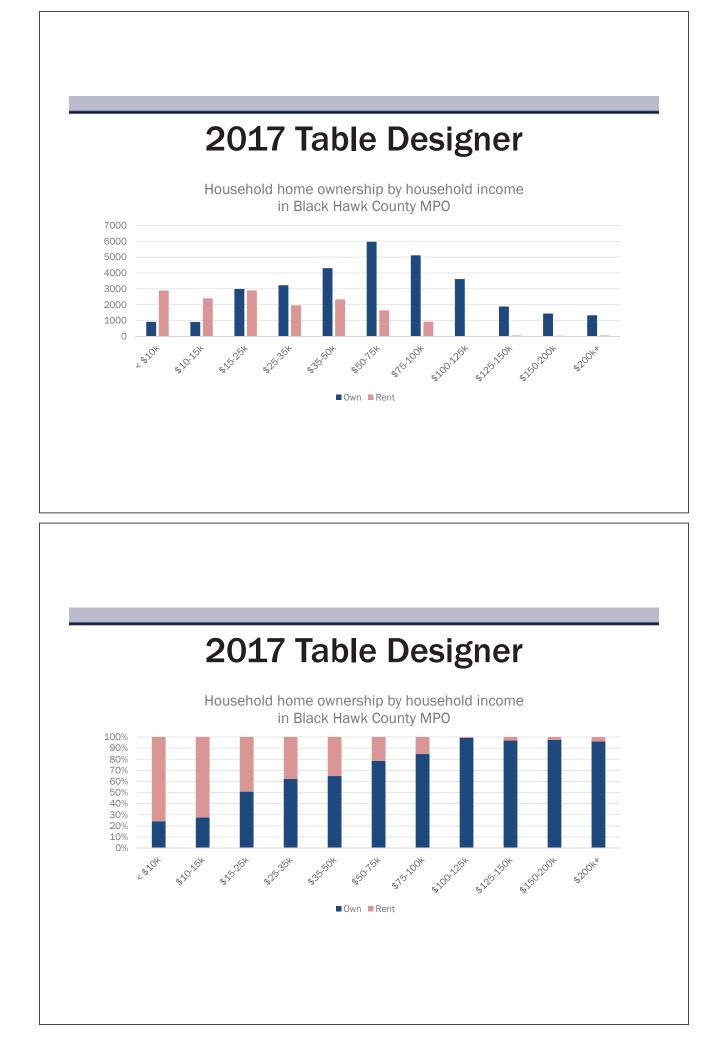
#### **2017** Table Designer

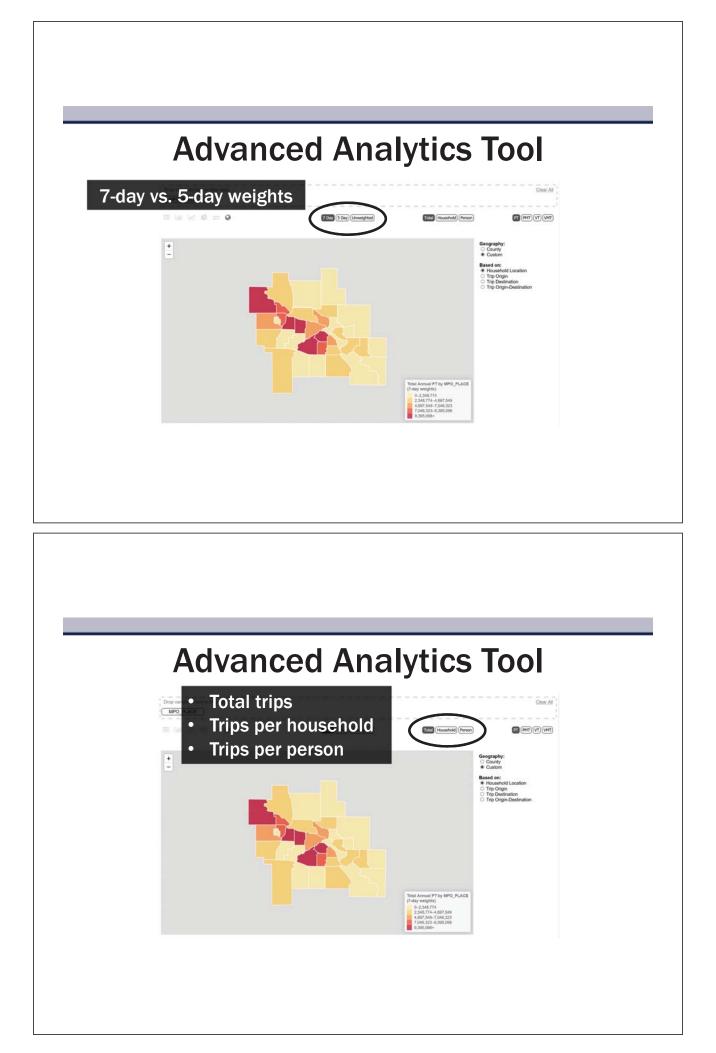
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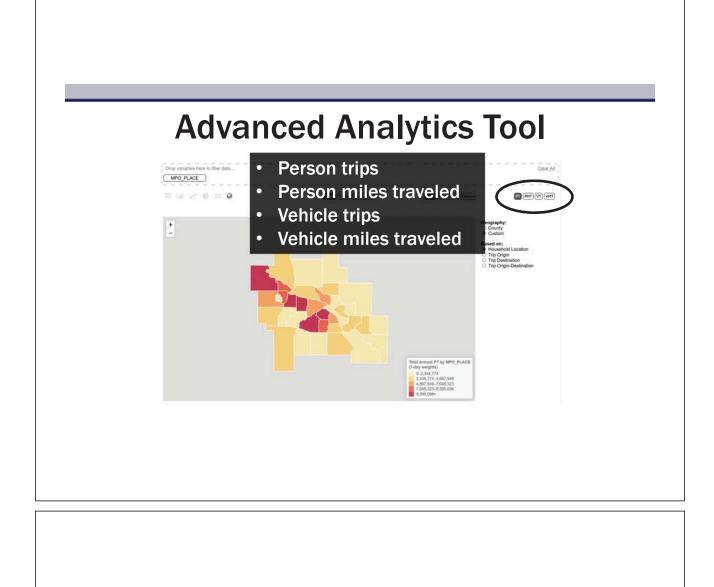
		Numi	ber of Households (S	ample Size			
Household income		Frequency of Bus Use for Travel					
	Daily	A few times a week	A few times a month	A few times a year	Never	All	
Less than \$10,000	3	3	6	8	34	54	
\$10,000 to \$14,999	3	1	5	12	43	64	
\$15,000 to \$24,999	2	2	2	17	104	127	
\$25,000 to \$34,999	1		1	11	109	122	
\$35,000 to \$49,999			2	17	153	172	
\$50,000 to \$74,999	1			20	162	183	
\$75,000 to \$99,999				11	134	145	
\$100,000 to \$124,999	1			12	86	99	
\$125,000 to \$149,999		1		7	36	44	
\$150,000 to \$199,999				3	31	34	
\$200,000 or more				2	32	34	
All	11	7	16	120	924	1,078	

Source: Federal Highway Administration, 2017 National Household Travel Survey (NHTS) Tabulation created on the NHTS website at http://hhts.oml.gov

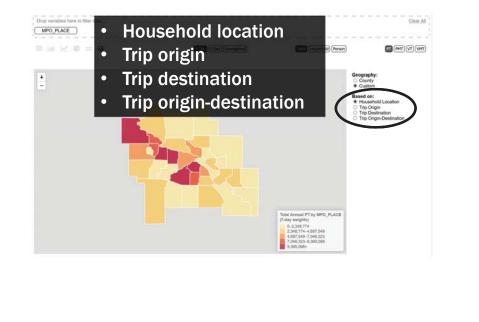


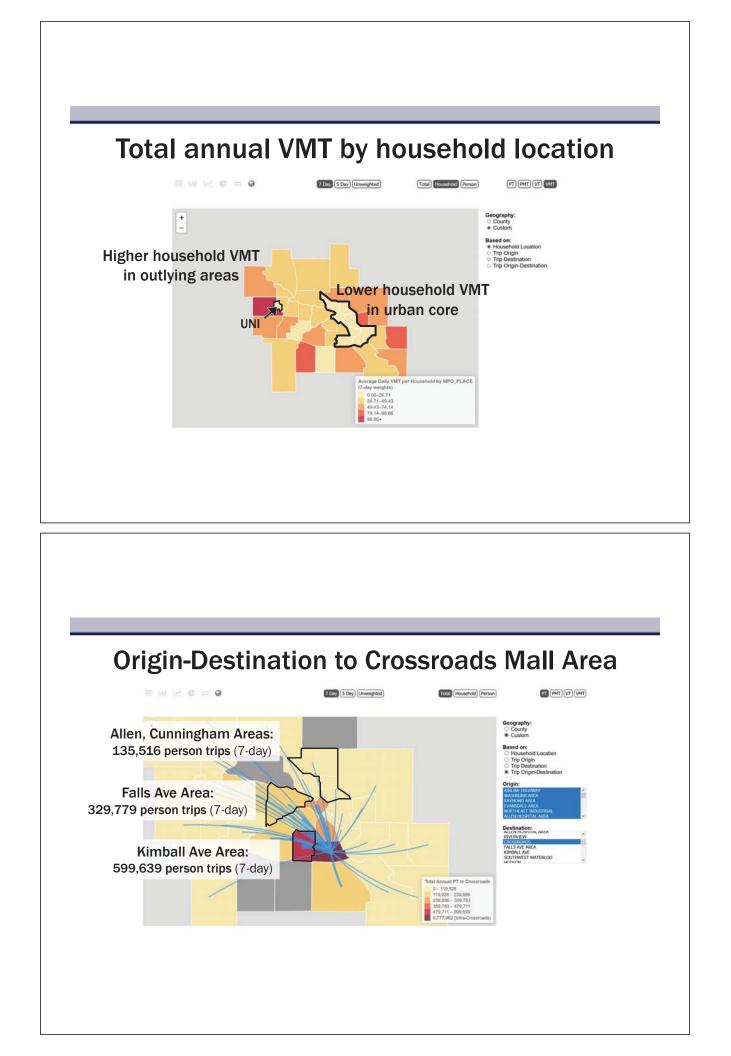


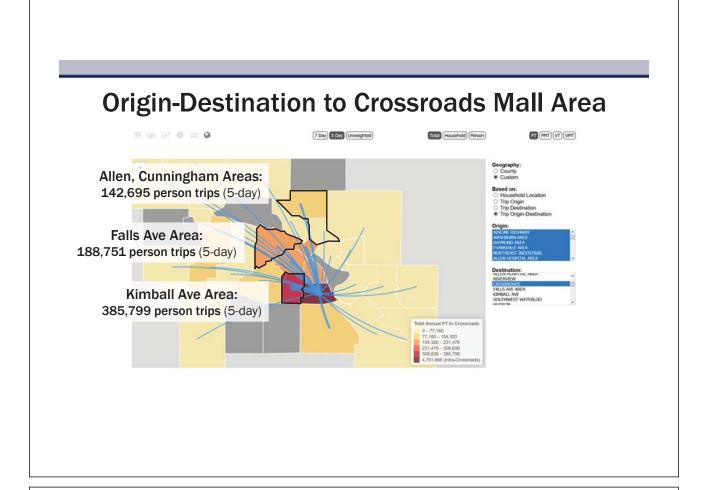




### **Advanced Analytics Tool**







#### **Person Trips to Crossroads Mall Area**

	7-day	5-day	Relative weekend demand
Falls Ave Area	329,779	188,751	+ 74.7%
Kimball Ave Area	599,639	385,799	+ 55.4%
Allen, Cunningham Areas	135,516	142,695	- 5.0%





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