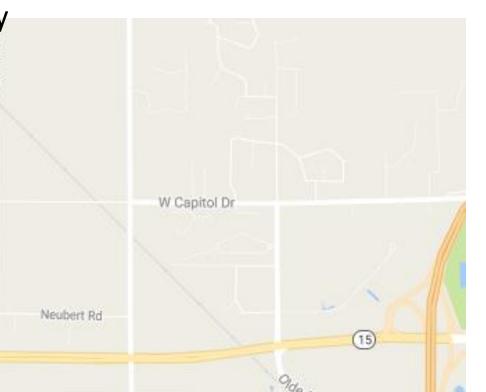
WIS 15 Access and Congestion Management Study

Local Officials' Meeting April 4, 2017

Overview

- Background
 - Congestion Management Process
 - Performance Measures
 - Access Management Planning Opportunity
- Greenville
- Traffic Data Collection
- Travel Demand Modeling
- Traffic Forecast

School Rd



W.G.

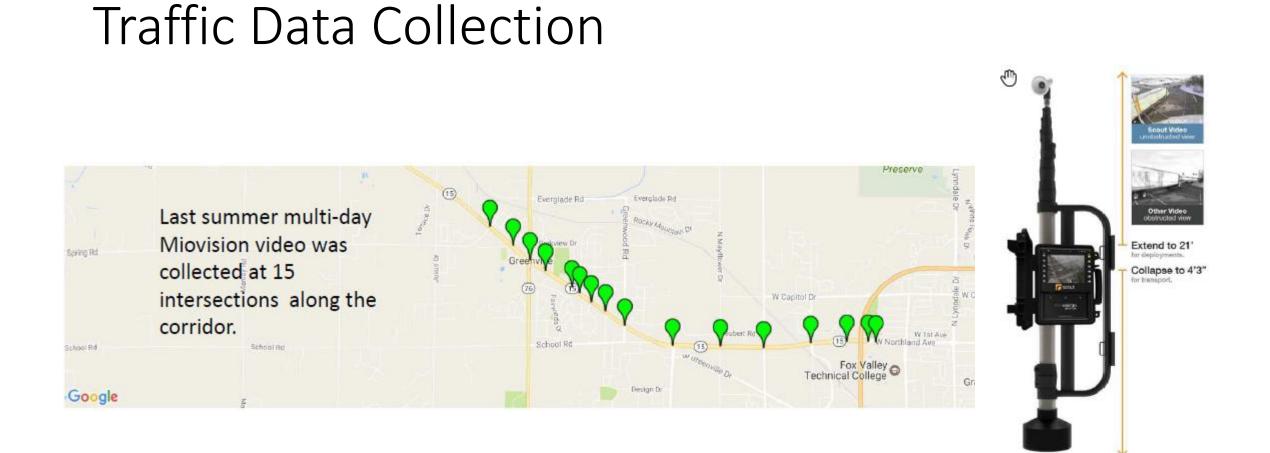
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Overview

- Goal of Study
- Study Status and Next Steps
- Current Access
- Local Land Use and Transportation Plans

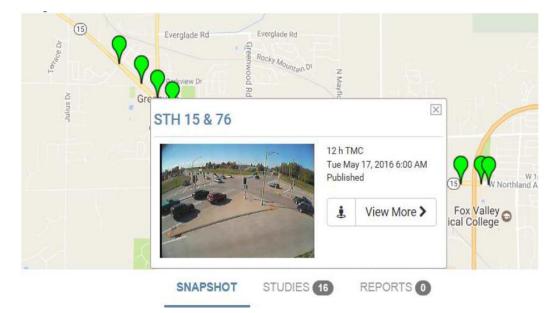
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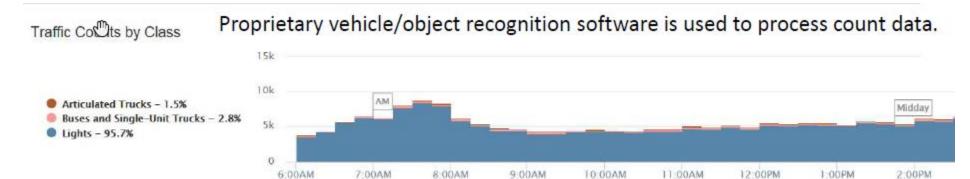




Traffic Data Collection

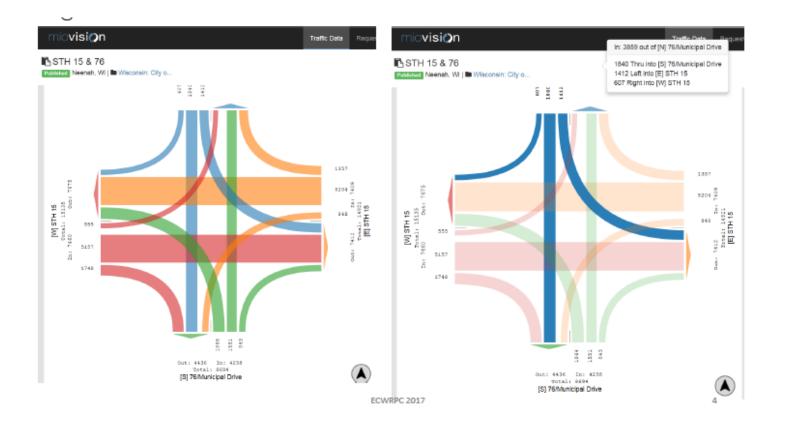
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Traffic Data Collection

continued...



Miovision output

- Depicts turn moves
- Based on traffic volume and turn counts

Travel Demand Model

1	and the second																
(4 F	H + − A <)																
ONE	COUNTY	SOURCE	HH	POP	RETAIL	SERVICE	TOTEMP	SCHENR	ENPLANEMEN	CASINO_ATT	TOTEMPSS	COLLEMR	5910	5420	SV30	9/40	9711
340	outagaine	Pox	897	1085	23	208	361	. 0	0	0	0	0	21.35	1,43		i T	0 17.1
344	Outegemie	Pax	227	600	3	123	258	509	0	0	0	0	15.40	1.22	0	2.5	3 29.3
345	Outegamie	Pax	334	875	0	60	131	. 0	0	0	0	0	13.43	1.22	0	2.1	3 29.3
348	Outepersie	Fax	35	91	5	- 40	75	0	0	0	0	0	13.43	1.22	0	2.1	3 29.3
347	Outegemie	Fax	73	165	23	60	148	0	0	0	0	0	9.39	2.48	0	i i	0 24.0
348	Outegemie	Pax	524	1152	23	23	20:1	451	0	0	0	0	9.59	2.46			
318	O Colonie	For	71	100	2	244	106	0	0	0	0	1575	5.07	0			

- Traffic Counts are used to calibrate Travel Demand Models.
- The NE Region Travel Demand Model uses existing and future socio- economic data to generate person trips by mode and by trip purpose.



Travel Demand Model

- The NE Region Travel Demand Model contains count input from over 8,000 locations
- The model contains a network of higher level arterial roadways
- Additional network details were added to represent the local streets that intersect WIS 15
- The model was calibrated with recent traffic counts and actual travel times to match existing conditions as closely as possible

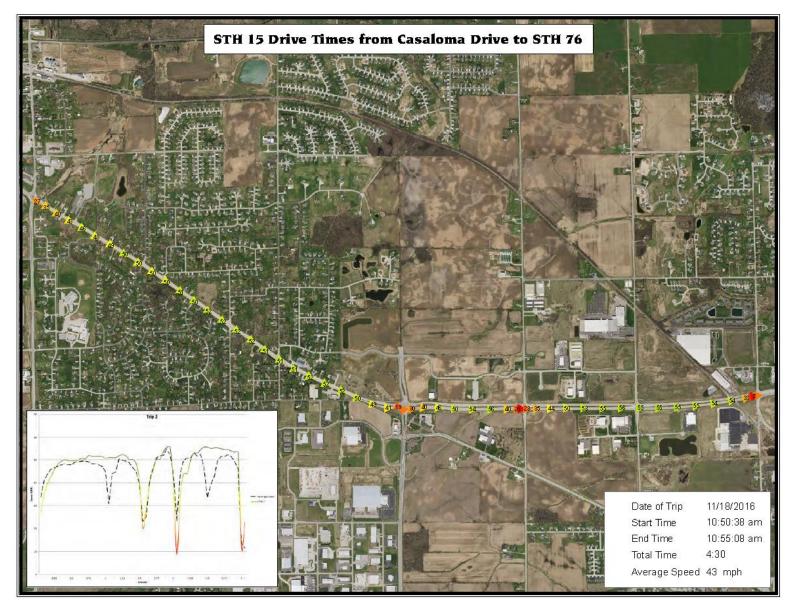
Travel Speed

National Performance Measures Research Data Set (NPMRDS)

Probe data including Cell Phone, Blue Tooth, GPS e.g. ATRI, Google, WAYs, HERE etc.

	Travel time (minutes) for WI-15								
	WIS 15 between WIS 76 and I-41								
	NPMRDS (Passenger vehicles)	NPMRDS (Trucks and passenger vehicles)							
	September 2016	September 2016	September 2016						
12 AM	4.24	4.41	4.63						
1 AM	4.71	5.01	5.42						
2 AM	6.66	5.58	4.74						
3 AM	4.16	4.3	4.56						
4 AM	4.38	4.45	4.89						
5 AM	4.52	4.55	5.01						
6 AM	4.67	4.71	5.11						
7 A M	5.02	5.03	5.01						
8 AM	4.95	5.01	5.6						
9 A M	4.84	4.94	5.31						
10 AM	5.17	5.16	5.04						
11 AM	5.05	5.05	5.2						
12 PM	4.99	4.99	4.99						
1 PM	4.96	5.05	5.5						
2 PM	5.12	5.06	4.97						
3 PM	4.92	4.99	5.25						
4 PM	4.89	4.93	5.15						
5 PM	4.95	5.02	5.34						
6 PM	4.66	4.74	5.11						
7 PM	4.68	4.84	5.33						
8 PM	4.65	4.66	4.67						
9 PM	4.4	4.51	4.86						
10 PM	4.93	4.85	4.57						
11 PM	4.6	4.8	5.13						

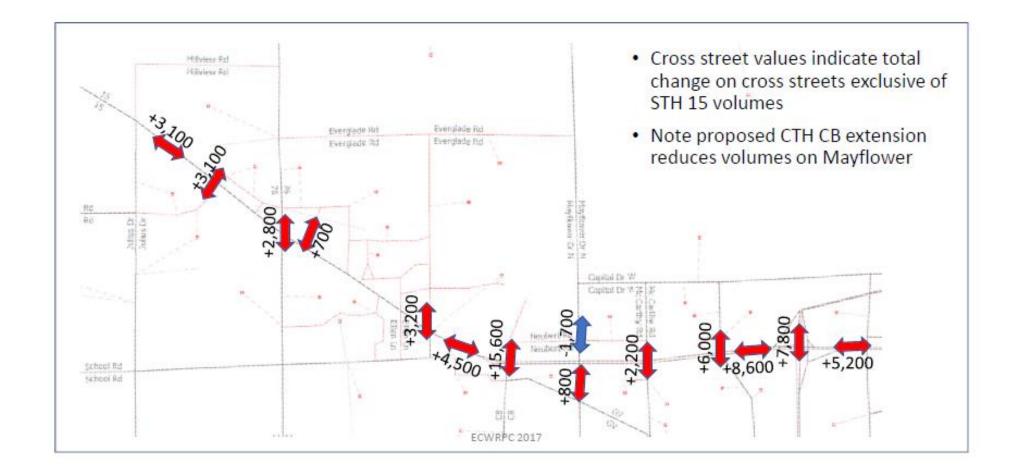
Drive Times on WIS 15-From Casaloma Drive to WIS 76



Existing and Future Traffic Data

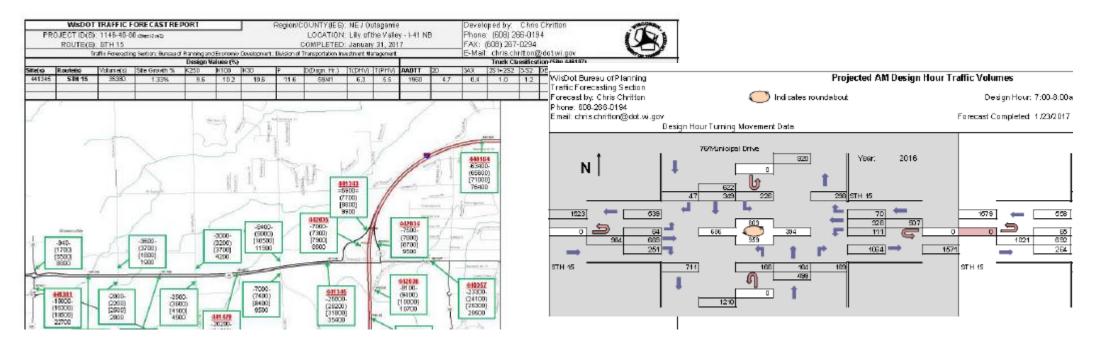
Travel Demand Model runs for the base and future conditions generated existing and future traffic data.

Projected Traffic Growth



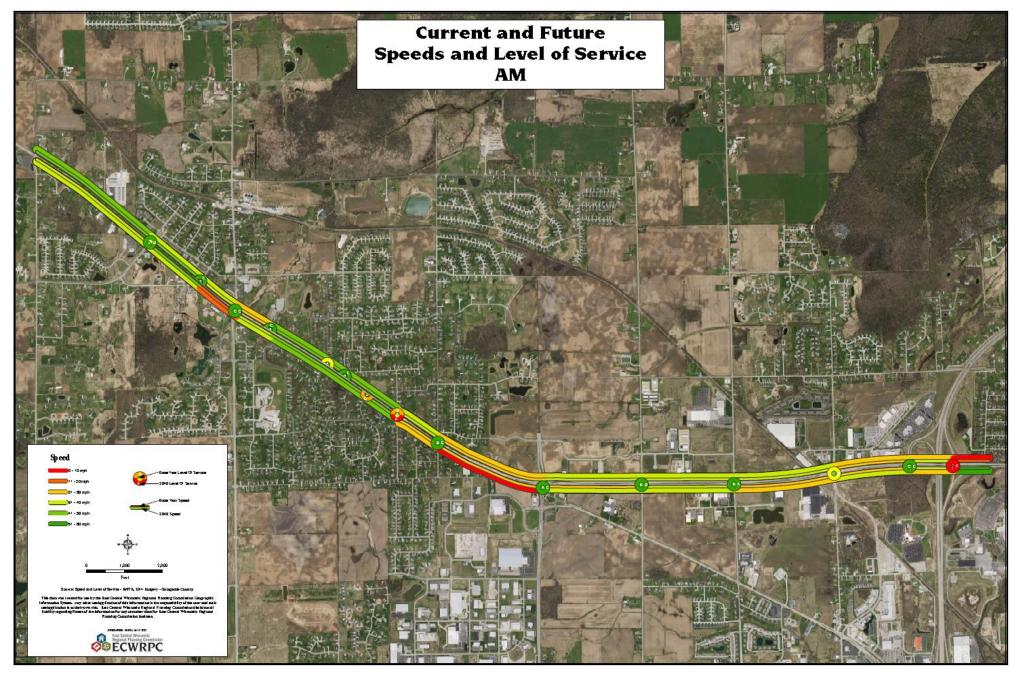
Projected Traffic Growth

The travel demand model outputs are adjusted using other traffic forecasting tools to provide the final Forecast and turn volumes for analyzing traffic operations.



Traffic Operations

- WIS 15 intersections are analyzed using existing and future traffic volumes to see how they operate.
- Operations are measured by Levels of Service.
- Level of Service A = free flow \rightarrow Level of Service F = gridlock



April 4, 2017 Local Officials' Meeting

