SAFETY PERFORMANCE MEASURES: 2019



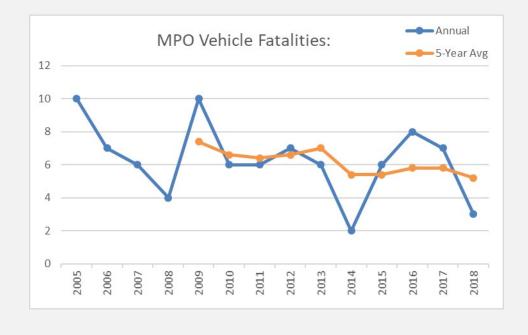
FHWA'S 5 SAFETY PERFORMANCE MEASURES

Regional 5-Year Rolling Averages of:

- 1 Number of Fatalities
- 2 Rate of Fatalities per 100 million VMT (Vehicle Miles Traveled)
- 3 Number of Serious Injuries
- 4 Rate of Serious Injuries per 100 million VMT
- 5 Number of Non-motorized Fatalities & Non-motorized Serious Injuries

TARGET (1): # OF VEHICLE FATALITIES

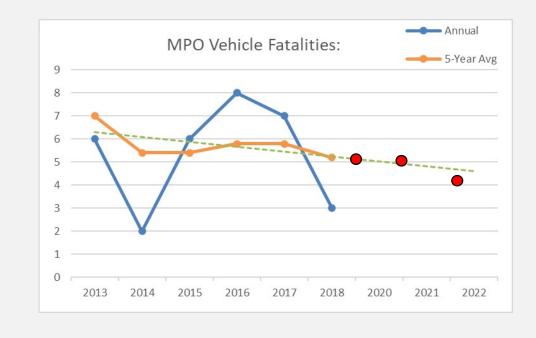
Year	Annual Fatalities	5-Year Avg
2007	6	n/a
2008	4	n/a
2009	10	7.4
2010	6	6.6
2011	6	6.4
2012	7	6.6
2013	6	7
2014	2	5.4
2015	6	5.4
2016	8	5.8
2017	7	5.6
2018	3	5.2
Total	74	n/a





TARGET (1): # OF VEHICLE FATALITIES

Year	Annual Fatalities	5-Year Avg
2011	6	6.4
2012	7	6.6
2013	6	7
2014	2	5.4
2015	6	5.4
2016	8	5.8
2017	7	5.8
2018	3	5.2
2019	n/a	n/a
2020	5	5.2
2021	5	5.8
2022	5	5.6





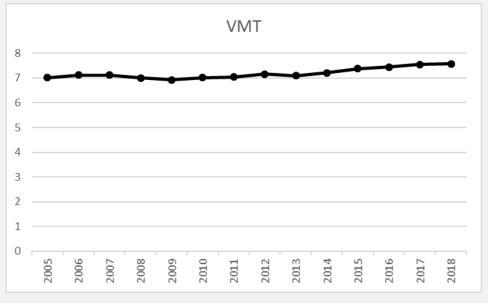


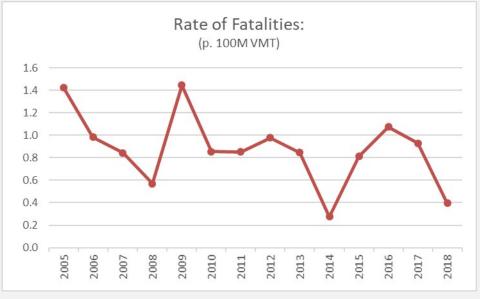
2020: 5

2021: 5

TARGET (2): RATE OF VEHICLE FATALITIES P. 100M VMT

Year	Annual Fatalities	VMT % Change	I00M VMT	Fatality Rate p. 100M VMT
2007	6	0.07	7.123	.842
2008	4	-1.65	7.007	.571
2009	10	-1.21	6.924	1.444
2010	6	1.36	7.019	.855
2011	6	0.4	7.047	.851
2012	7	1.57	7.16	.978
2013	6	-0.92	7.094	.846
2014	2	1.66	7.214	.277
2015	6	2.18	7.375	.814
2016	8	1.00	7.449	1.074
2017	7	1.01	7.545	.928
2018	3	1.01	7.575	.396



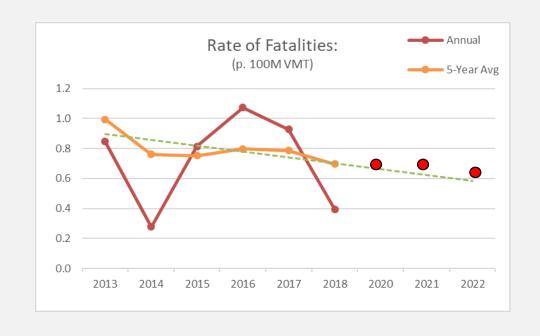


• VMT percent increases taken from KDOT historical data



TARGET (2): RATE OF VEHICLE FATALITIES P. 100M VMT

Year	Annual Fatalities	Fatality Rate p. 100M VMT	5-Year Avg
2014	2	0.277	.761
2015	6	0.814	.753
2016	8	1.074	.798
2017	7	.928	.788
2018	3	.396	.698
2019	n/a	n/a	n/a
2020		.7	
2021		.7	
2022		.65	





2020: 0.7

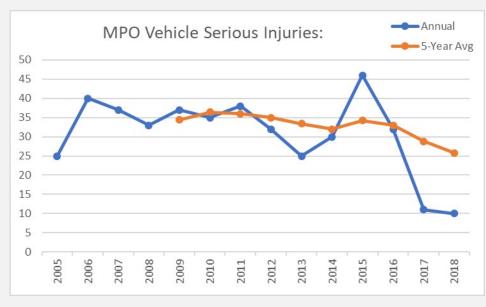
2021: 0.7

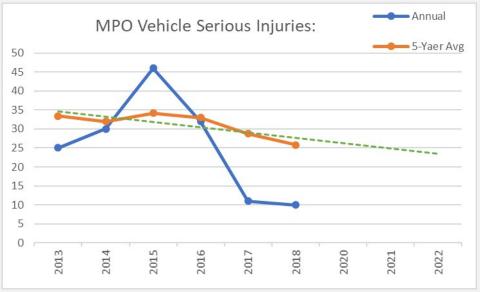
2022: 0.65



TARGET (3): # OF SERIOUS INJURIES

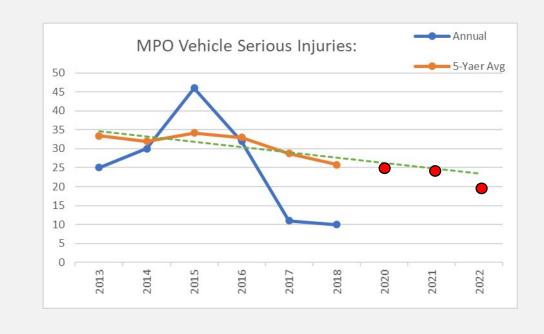
Year	Annual Serious Injuries	5-Year Avg
2007	37	n/a
2008	33	n/a
2009	37	34.4
2010	35	36.4
2011	38	36
2012	32	35
2013	25	33.4
2014	30	32
2015	46	34.2
2016	32	33
2017	П	28.8
2018	10	25.8
Total	396	n/a





TARGET (3): # OF SERIOUS INJURIES

Year	Annual Serious Injuries	5-Year Avg
2011	38	36
2012	32	35
2013	25	33.4
2014	30	32
2015	46	34.2
2016	32	33
2017	П	28.8
2018	10	25.8
2019	n/a	n/a
2020	25	29
2021	24	28
2022	19	27





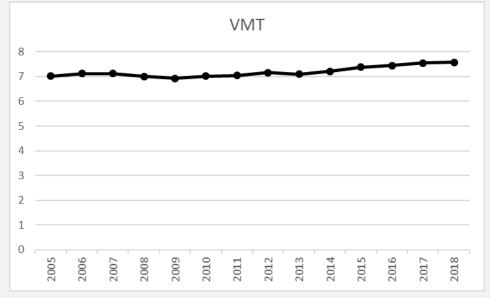


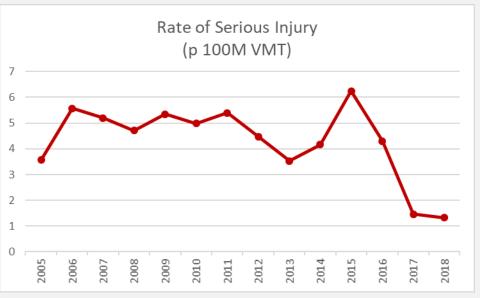
2020: 25

2021: 24

TARGET (4): RATE OF SERIOUS INJURIES P. 100M VMT

Year	Annual S. Injuries	VMT % Change	100M VMT	S. Injury Rate p. 100M VMT
2007	37	0.07	7.123	5.194
2008	33	-1.65	7.007	4.710
2009	37	-1.21	6.924	5.344
2010	35	1.36	7.019	4.986
2011	38	0.4	7.047	5.392
2012	32	1.57	7.16	4.469
2013	25	-0.92	7.094	3.524
2014	30	1.66	7.214	4.159
2015	46	2.18	7.375	6.237
2016	32	1.00	7.449	4.296
2017	П	1.01	7.545	1.458
2018	10	1.01	7.575	1.320

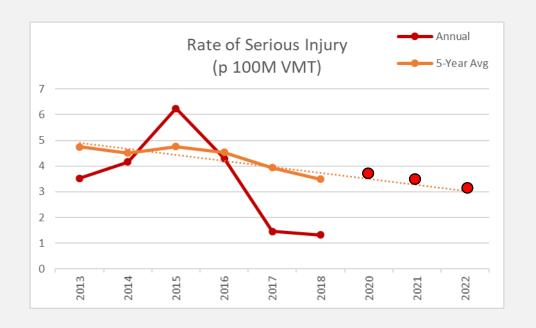




• 2005-2015 VMT was calculated with 2016 VMT then KDOT historical VMT tables to establish year-to-year changes.

TARGET (4): RATE OF SERIOUS INJURIES P. 100M VMT

Year	Annual S. Injuries	I00M VMT	Serious Injury p. 100M VMT	5-Year Avg
2014	30	1.66	4.159	4.506
2015	46	2.18	6.237	4.756
2016	32	1.00	4.296	4.537
2017	11	1.01	1.458	3.935
2018	10	1.01	1.320	3.949
2019	n/a	n/a	n/a	n/a
2019			3.9	
2020			3.5	
2021			3.1	



2020: 3.9

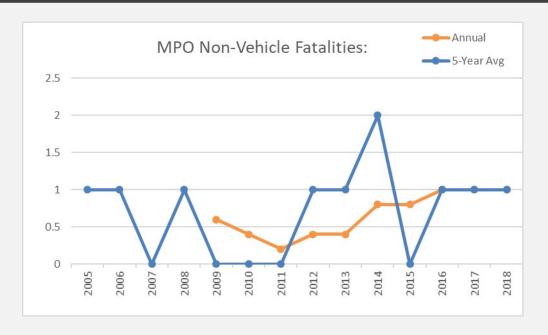
2021: 3.5

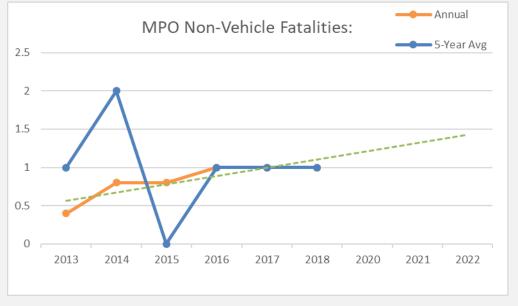
2022: 3.1



TARGET (5): # OF NON-VEHICULAR FATALITIES & SERIOUS INJURIES

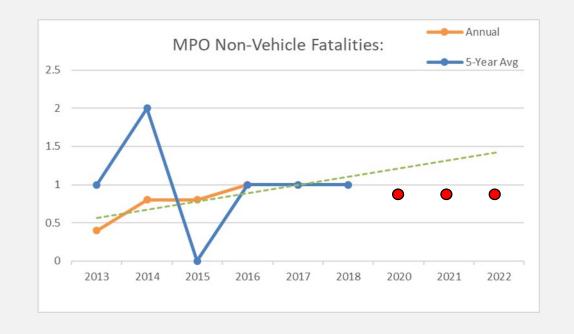
Y ear	Annual Fatalities & Serious Injuries	5-Year Avg
2007	0	n/a
2008	I	n/a
2009	0	0.6
2010	0	0.4
2011	0	0.2
2012	2	0.4
2013	1	0.4
2014	2	0.8
2015	0	0.8
2016	I	I
2017	1	1
2018	I	I
Total	78	n/a





TARGET (5): # OF NON-VEHICULAR FATALITIES & SERIOUS INJURIES

Year	Annual Fatalities & Serious Injuries	5-Year Avg
2011	0	0.2
2012	2	0.4
2013	Ī	0.4
2014	2	0.8
2015	0	0.8
2016	I	I
2017	I	I
2018	I	
2019	n/a	n/a
2020	l 💆	8.0
2021	0	0.8
2022	0	8.0







2020: I

2021: 0

TARGET SUMMARY

1 Number of Fatalities

2020: 5

2021: 5

2022: 5

Rate of Serious Injuries per 100 million VMT

2020: 3.9

2021: 3.5

2022: 3.I



2 Rate of Fatalities per 100 million VMT

2020: 0.7

2021: 0.7

2022: 0.65

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5 Number of Non-motorized Fatalities & Nonmotorized Serious Injuries

2020: I

2021: 0

2022: 0

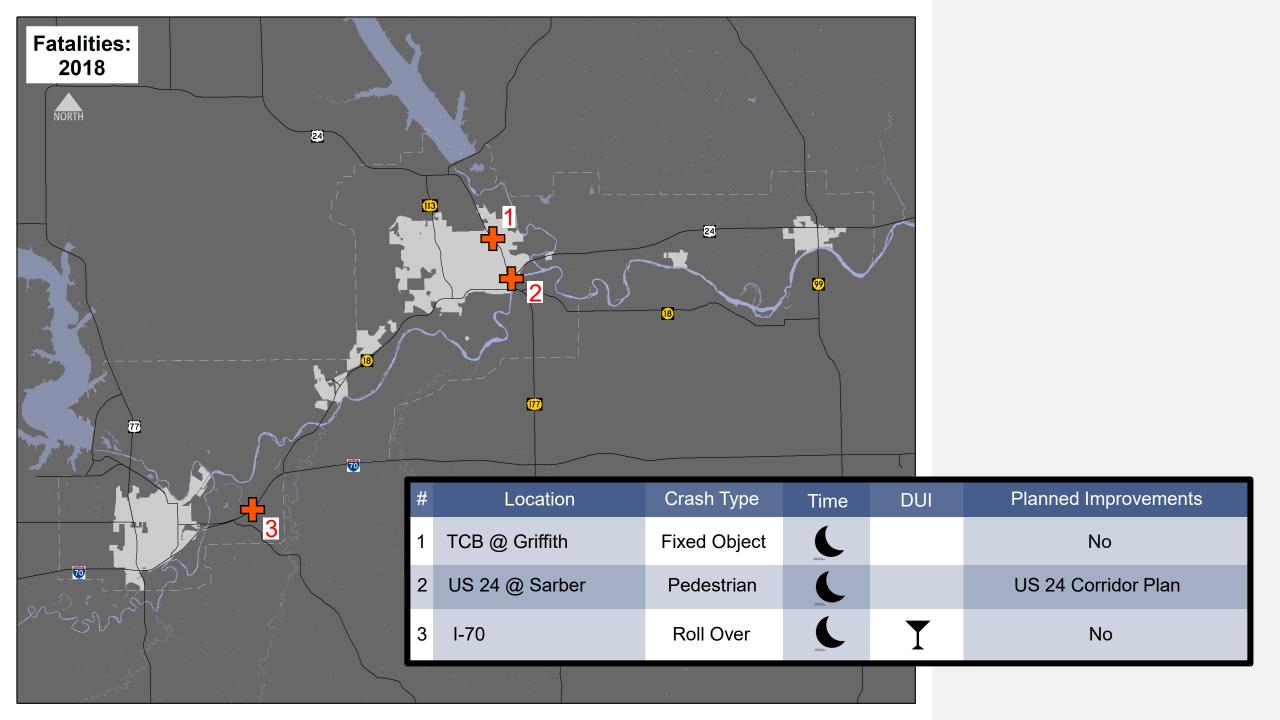


3 Number of Serious Injuries

2020: 25

2021: 24



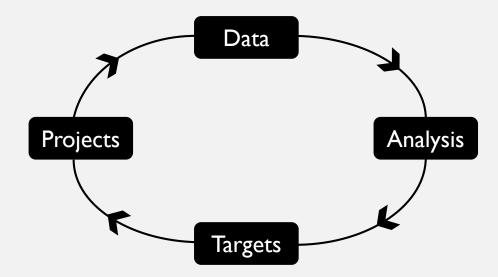


METHODOLOGY DETAILS

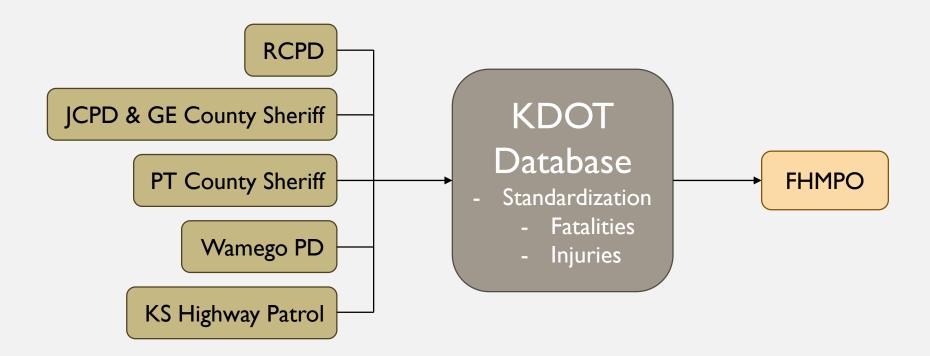
The following slides outline the workflow and methodologies used in analyzing the crash data.

DATA DRIVEN

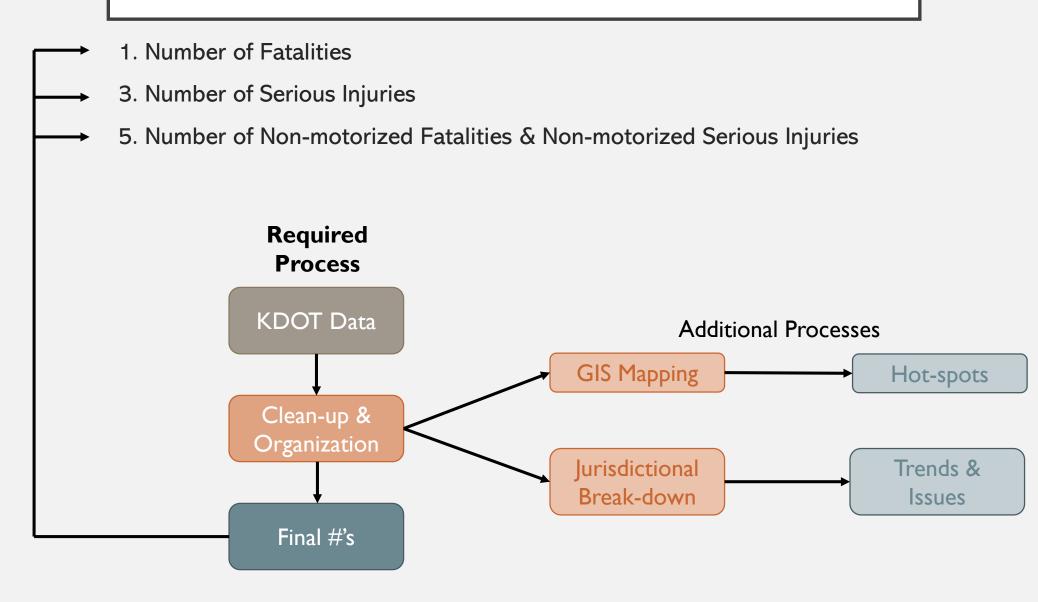
- Based on the 5-Year Avgs, we must set annual Safety Targets for each Performance Measure.
- Data drives >>> safer transportation system.



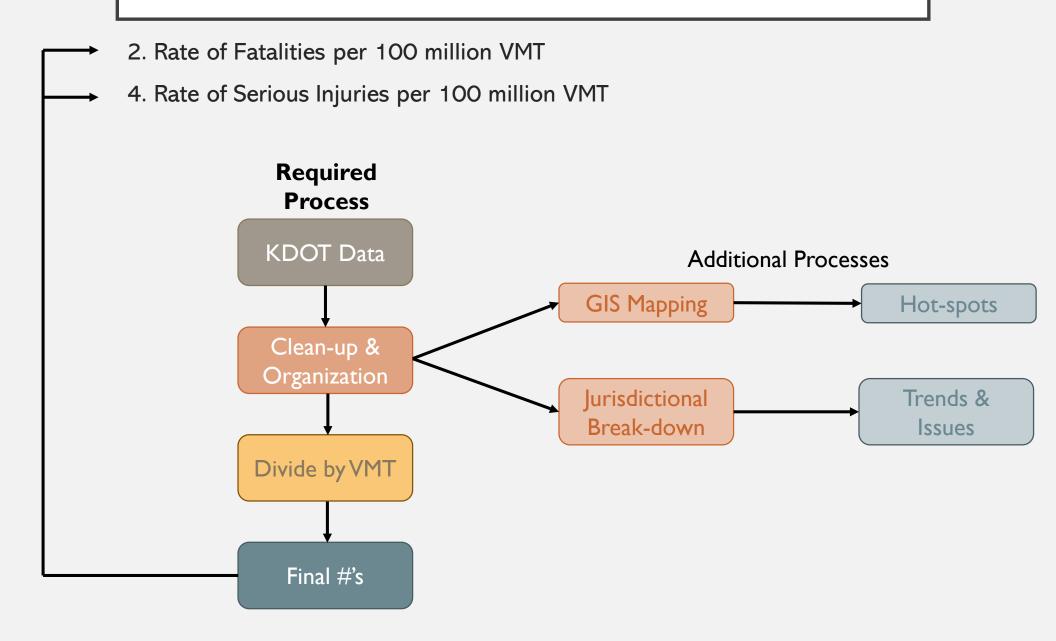
DATA FLOW



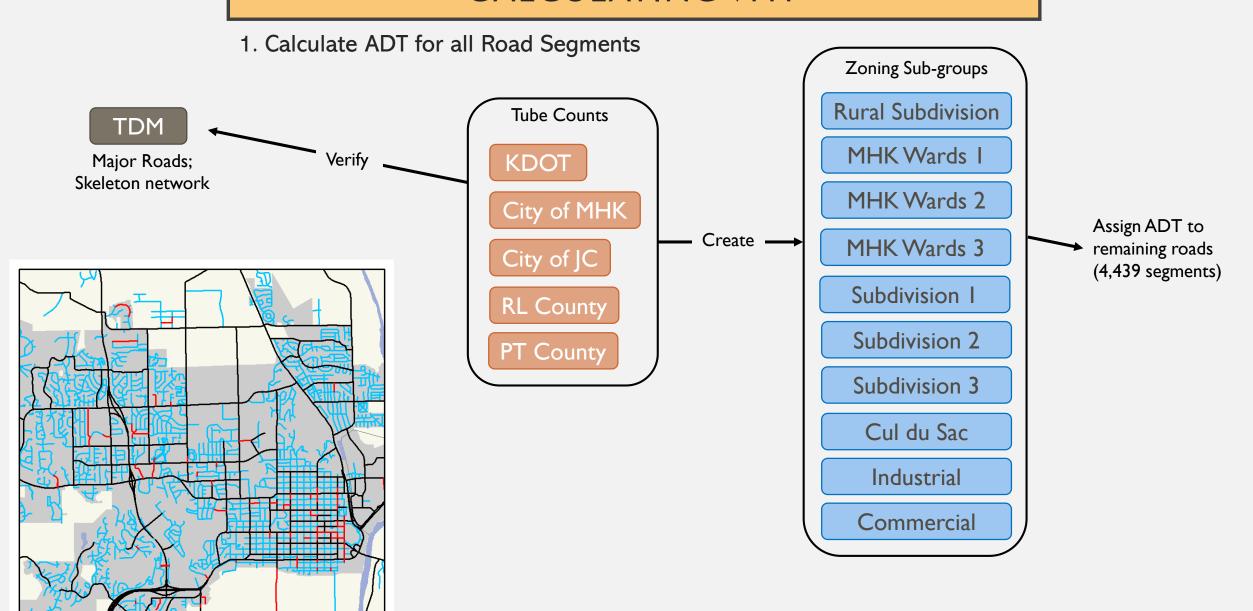
PROCESS FOR RULES...



PROCESS FOR RULES...



CALCULATING VMT



CALCULATING VMT

2. Calculate VMT from ADT for all Road Segments

×

365

Annual VMT

2017 VMT: **754,500,000**