



SAFETY PERFORMANCE MEASURES

2023



FHWA'S 5 SAFETY PERFORMANCE MEASURES

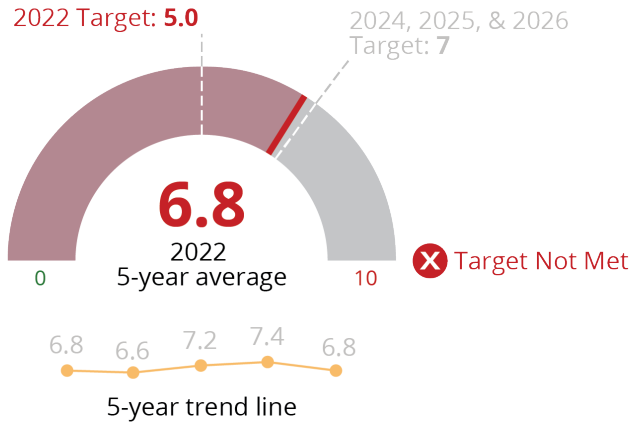
Regional 5-Year Rolling Averages of:

- 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 & Serious Injuries

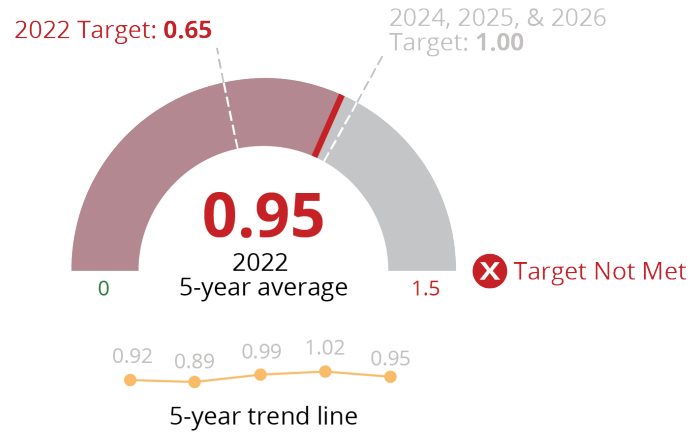


SAFETY PERFORMANCE MEASURES: SUMMARY

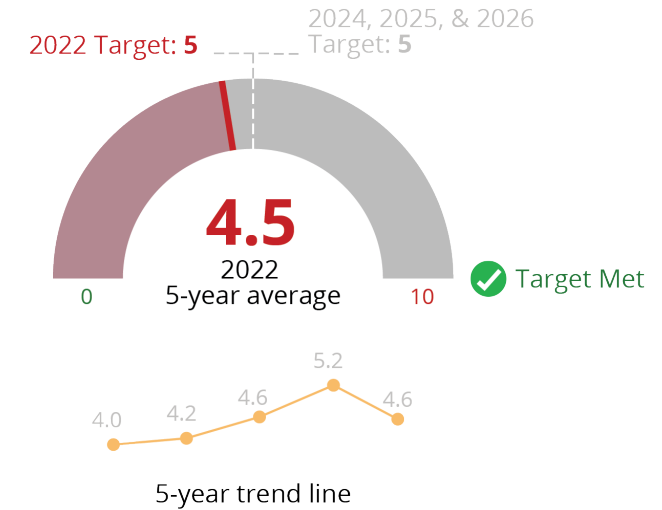
PM 1: Number of Vehicle Fatalities



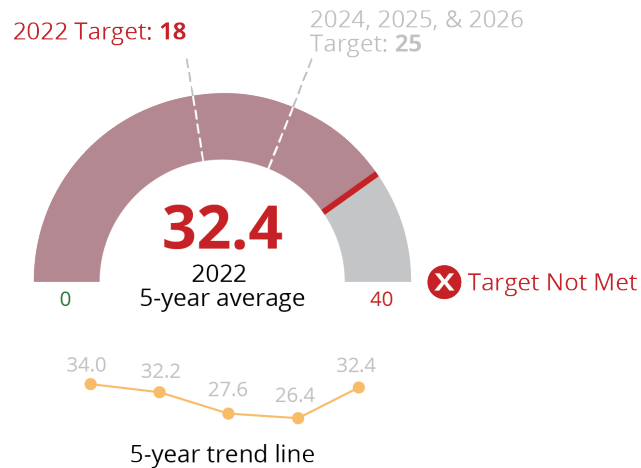
PM 2: Rate of Vehicular Fatalities per 100 Million Vehicle Miles Traveled



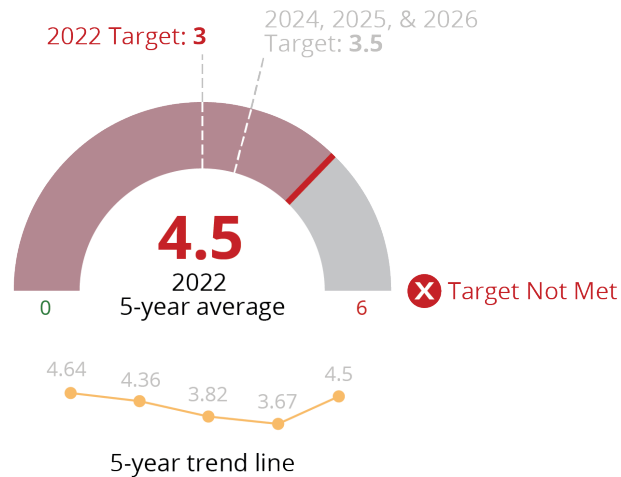
PM 5: Non-Motorized Fatalities & Serious Injuries



PM 3: Number of Serious Injuries



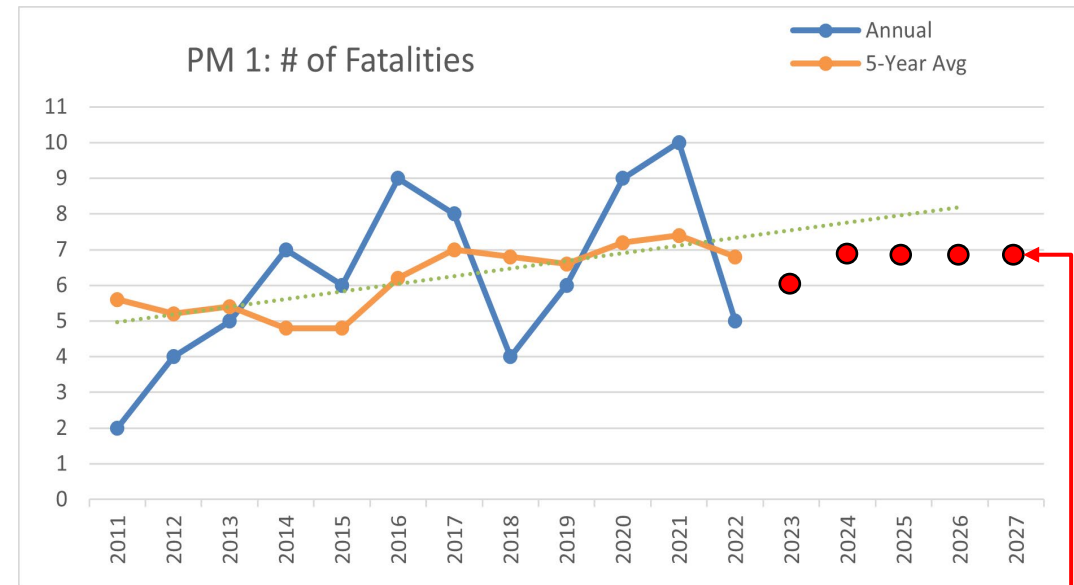
PM 4: Rate of Serious Injuries per 100 Million Vehicle Miles Traveled



TARGET 1: # OF VEHICLE FATALITIES

Year	Annual Fatalities	5-Year Avg	Target
2011	2		-
2012	4		-
2013	5		-
2014	7		-
2015	6	4.8	-
2016	9	6.2	-
2017	8	7.0	-
2018	4	6.8	5
2019	6	6.6	5
2020	9	7.2	4
2021	10	7.4	5
2022	5	6.8	5
2023	-	-	5
2024	-	-	7
2025	-	-	7
2026	-	-	7
2027	-	-	7

X
Off Target

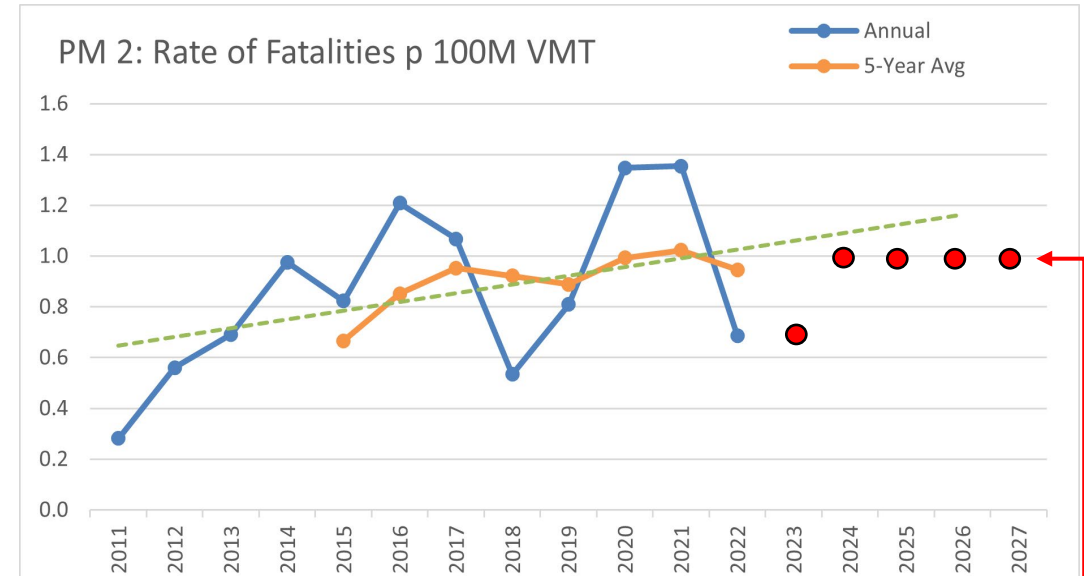


TARGET 2: RATE OF VEHICLE FATALITIES P. 100M VMT

Year	Annual Fatalities	100M VMT	Fatality Rate p/100M VMT	5-Year Avg	Target
2011	2	7.10	0.28		-
2012	4	7.13	0.56		-
2013	5	7.24	0.69		-
2014	7	7.17	0.98		-
2015	6	7.29	0.82	0.67	-
2016	9	7.45	1.21	0.85	-
2017	8	7.50	1.07	0.95	-
2018	4	7.49	0.53	0.92	0.70
2019	6	7.41	0.81	0.89	0.65
2020	9	6.68	1.35	0.99	0.60
2021	10	7.38	1.35	1.02	0.65
2022	5	7.29	0.69	0.95	0.65
2023	-	-	-	-	0.65
2024	-	-	-	-	1.00
2025	-	-	-	-	1.00
2026	-	-	-	-	1.00
2027	-	-	-	-	1.00



Off Target



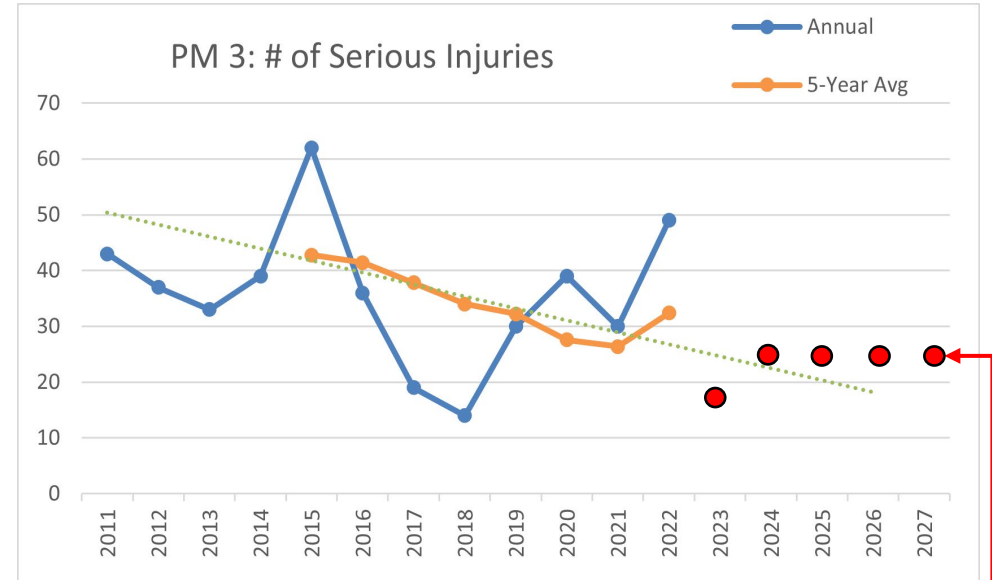
* VMT details found in Appendix A



TARGET 3: # OF SERIOUS INJURIES

Year	Annual Serious Injuries	5-Year Avg	Target
2011	43		-
2012	37		-
2013	33		-
2014	39		-
2015	62	42.8	-
2016	36	41.4	-
2017	19	37.8	-
2018	14	34	32
2019	30	32.2	32
2020	39	27.6	32
2021	30	26.4	18
2022	49	32.4	18
2023	-	-	18
2024	-	-	25
2025	-	-	25
2026	-	-	25
2027	-	-	25

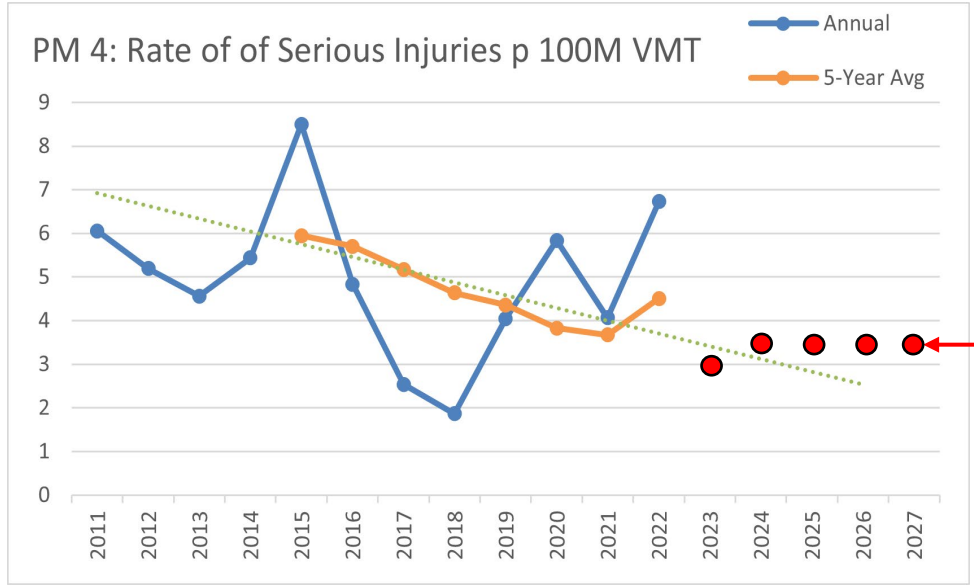
X
Off Target



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

Year	Annual Serious Injuries	100M VMT	SI Rate p/100M VMT	5-Year Avg	Target
2011	43	7.10	6.06		-
2012	37	7.13	5.19		-
2013	33	7.24	4.56		-
2014	39	7.17	5.44	-	-
2015	62	7.29	8.50	5.95	-
2016	36	7.45	4.83	5.71	-
2017	19	7.50	2.53	5.17	-
2018	14	7.49	1.87	4.64	4.4
2019	30	7.41	4.05	4.36	4.3
2020	39	6.68	5.84	3.82	4.2
2021	30	7.38	4.06	3.67	3
2022	49	7.29	6.73	4.51	3
2023	-	-	-	-	3
2024	-	-	-	-	3.5
2025	-	-	-	-	3.5
2026	-	-	-	-	3.5
2027	-	-	-	-	3.5

X
Off Target

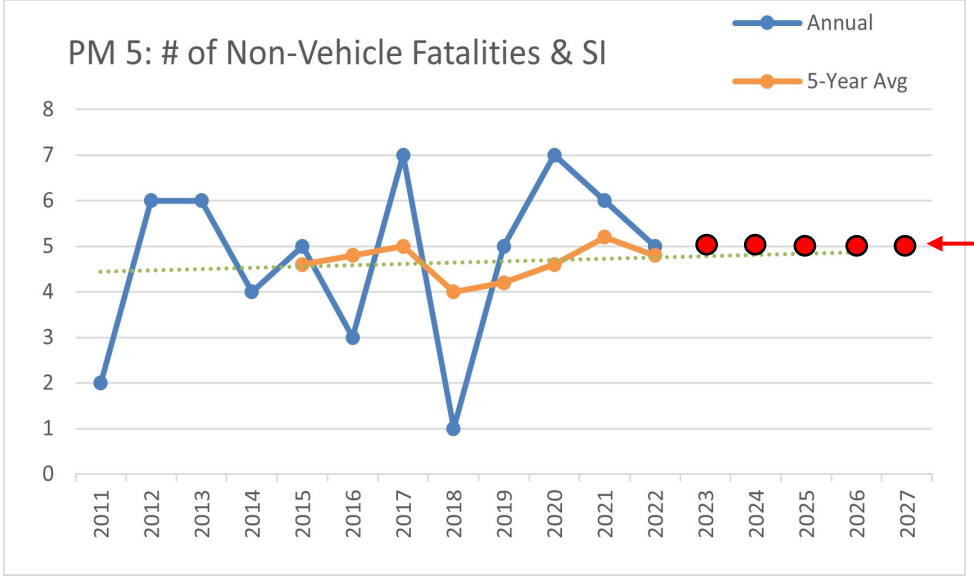


* VMT details found in Appendix A








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

Year	Annual Fatalities +SI	5-Year Avg	Target
2011	2		-
2012	6		-
2013	6		-
2014	4		-
2015	5	4.6	-
2016	3	4.8	-
2017	7	5	-
2018	1	4	1
2019	5	4.2	0
2020	7	4.6	0
2021	6	5.2	5
2022	5	4.6	5
2023	-	-	5
2024	-	-	5
2025	-	-	5
2026	-	-	5
2027	-	-	5

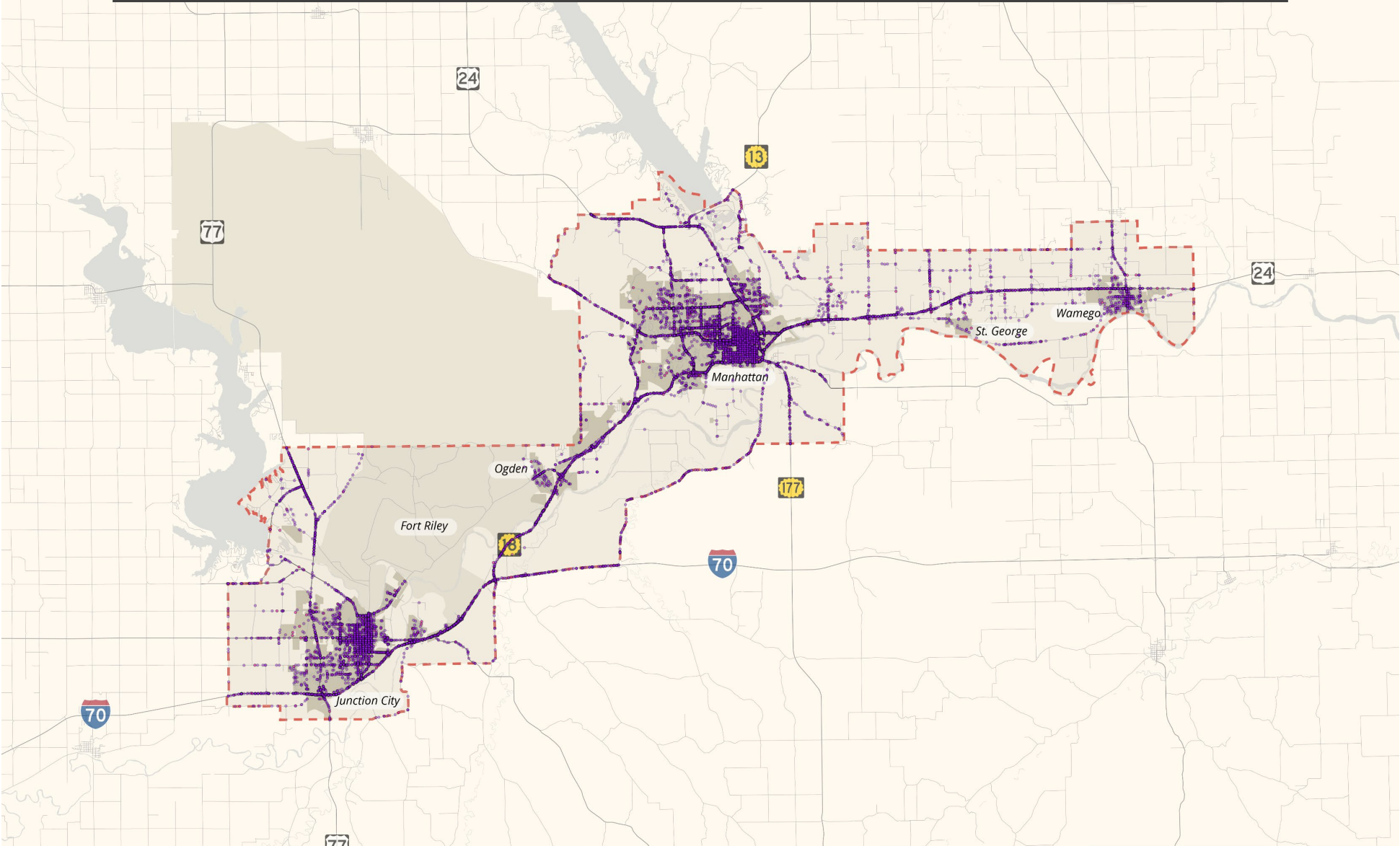


TARGET SUMMARY

	Performance Measure	2022 5-Year Avg	2022 Targets (set in 2018)	Future Targets
1	# of Fatalities	6.8	5  Off Target	2024: 7 2025: 7 2026: 7
2	Rate of Fatalities per 100 million VMT	0.95	0.65  Off Target	2024: 1.00 2025: 1.00 2026: 1.00
3	# of Serious Injuries	32.4	18  Off Target	2024: 25 2025: 25 2026: 25
4	Rate of Serious Injuries per 100 million VMT	4.5	3.0  Off Target	2024: 3.5 2025: 3.5 2026: 3.5
5	# of Non-Vehicular Fatalities & Serious Injuries	4.6	5  On Target	2024: 5 2025: 5 2026: 5



CRASH MAPS: 2011-2022 CRASHES

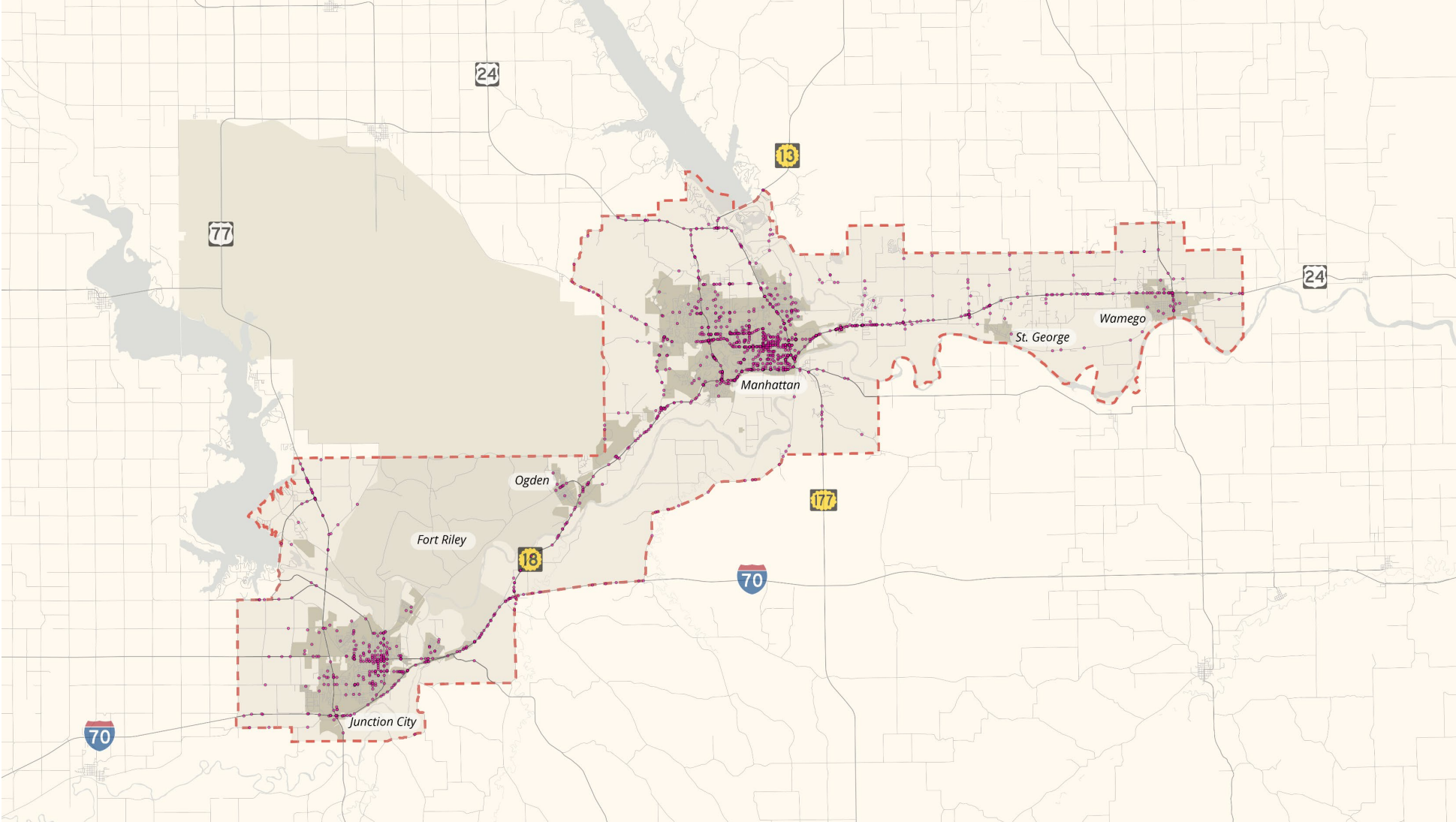


Legend

- 2011-2022 Crash



CRASH MAPS: 2022 CRASHES



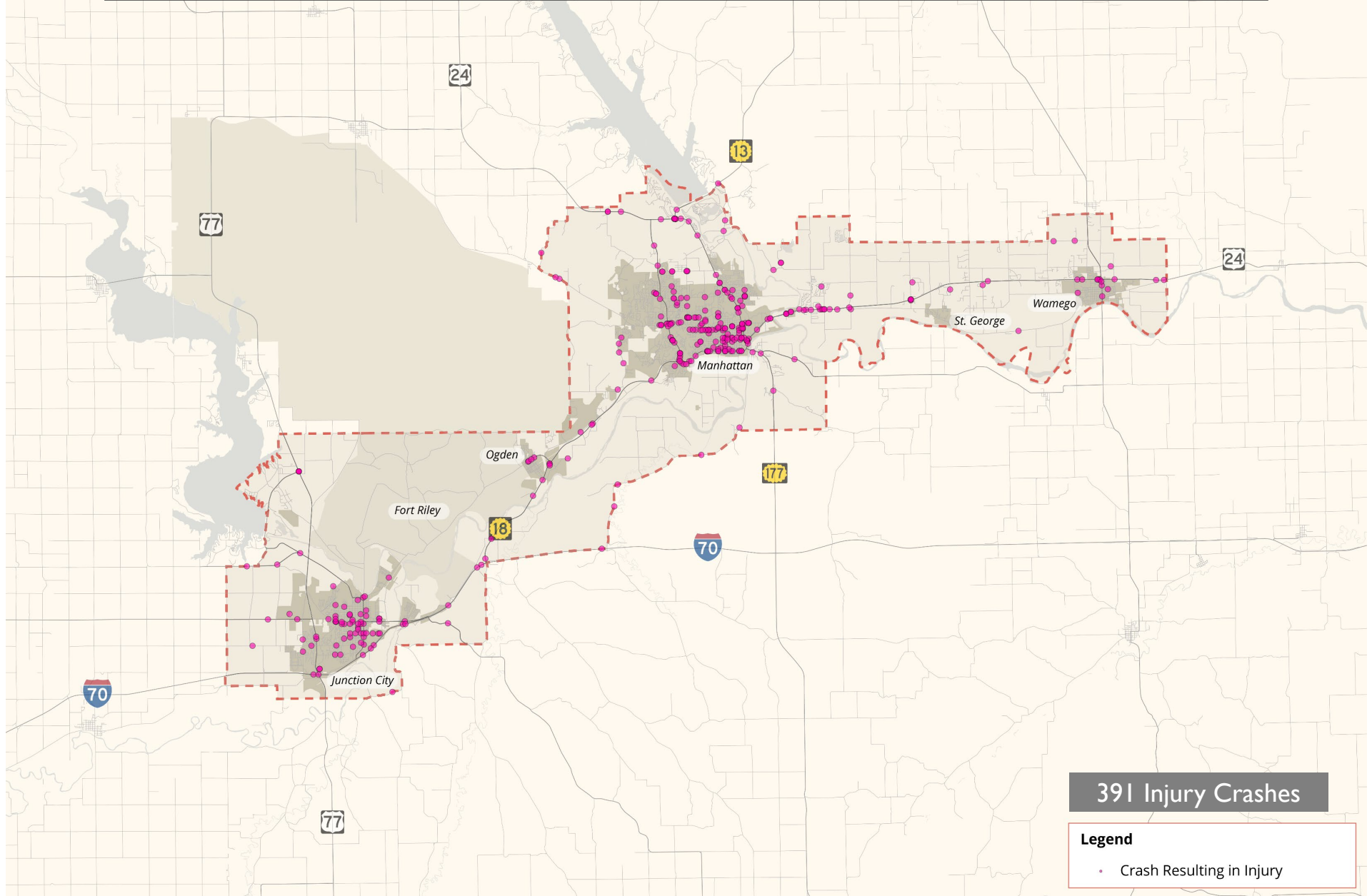
1,642 Total Crashes

Legend

- 2022 Crash



CRASH MAPS: ALL INJURIES



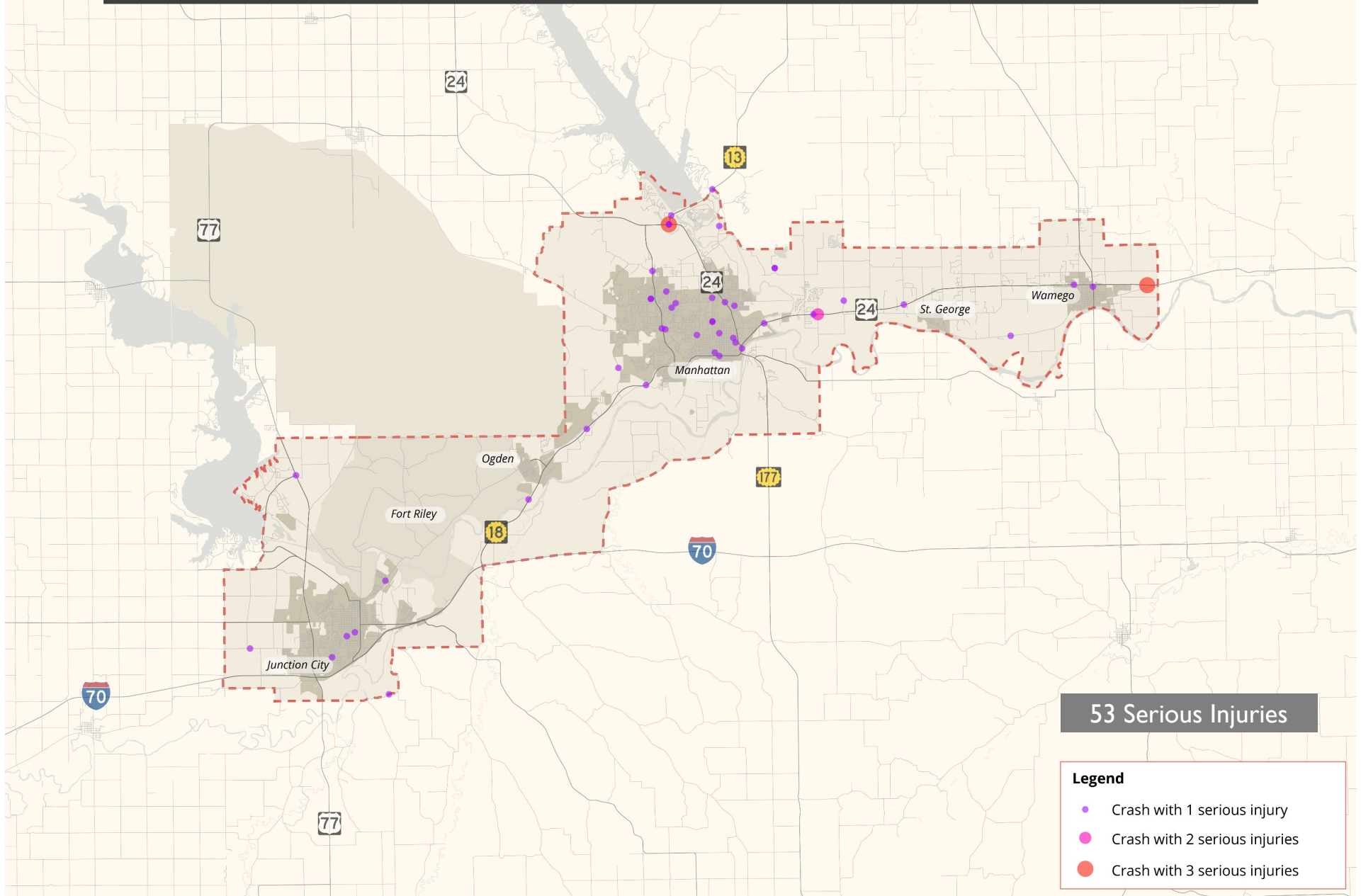
391 Injury Crashes

Legend

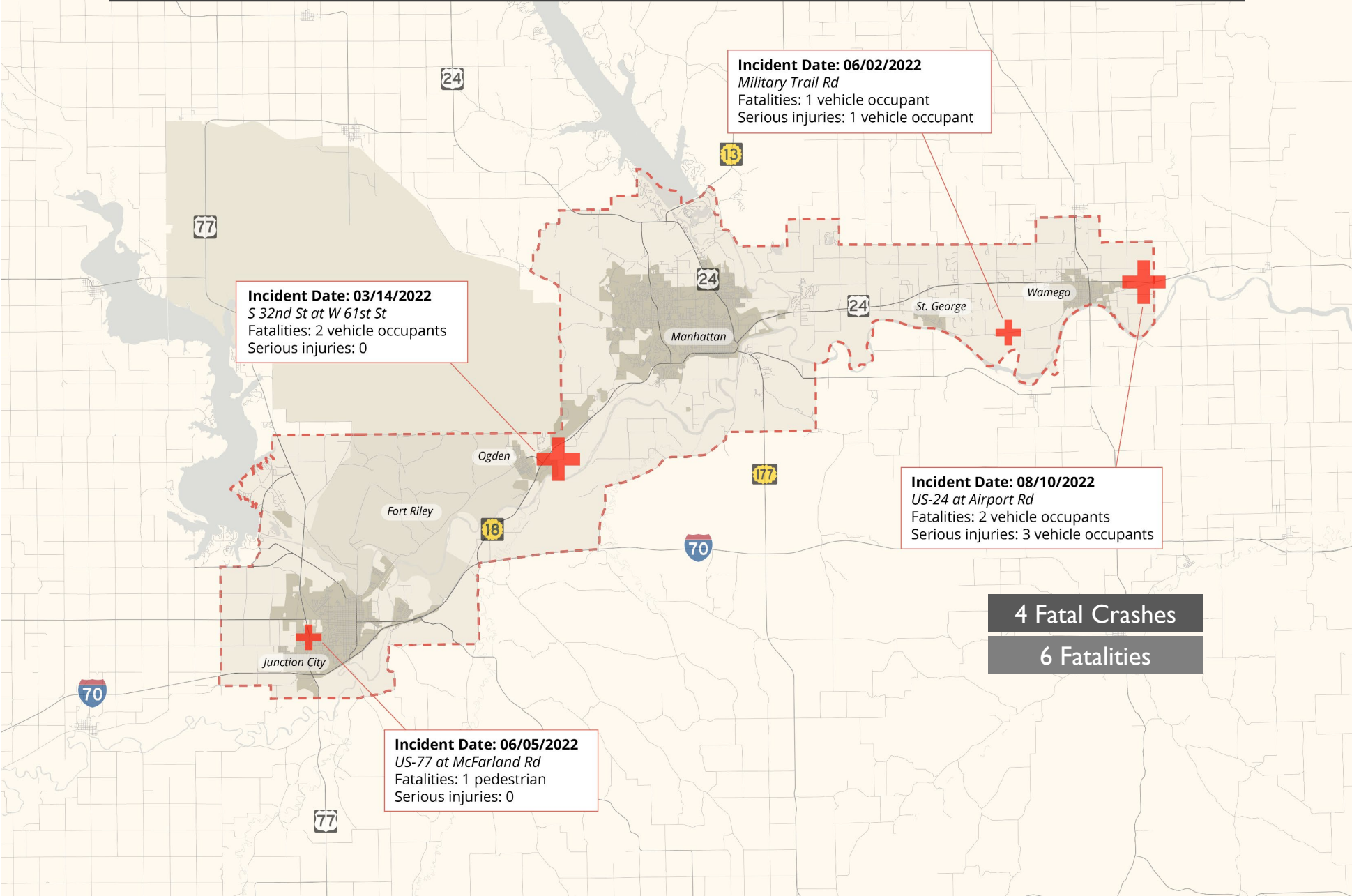
- Crash Resulting in Injury



CRASH MAPS: 2022 SERIOUS INJURIES



CRASH MAPS: FATALITIES

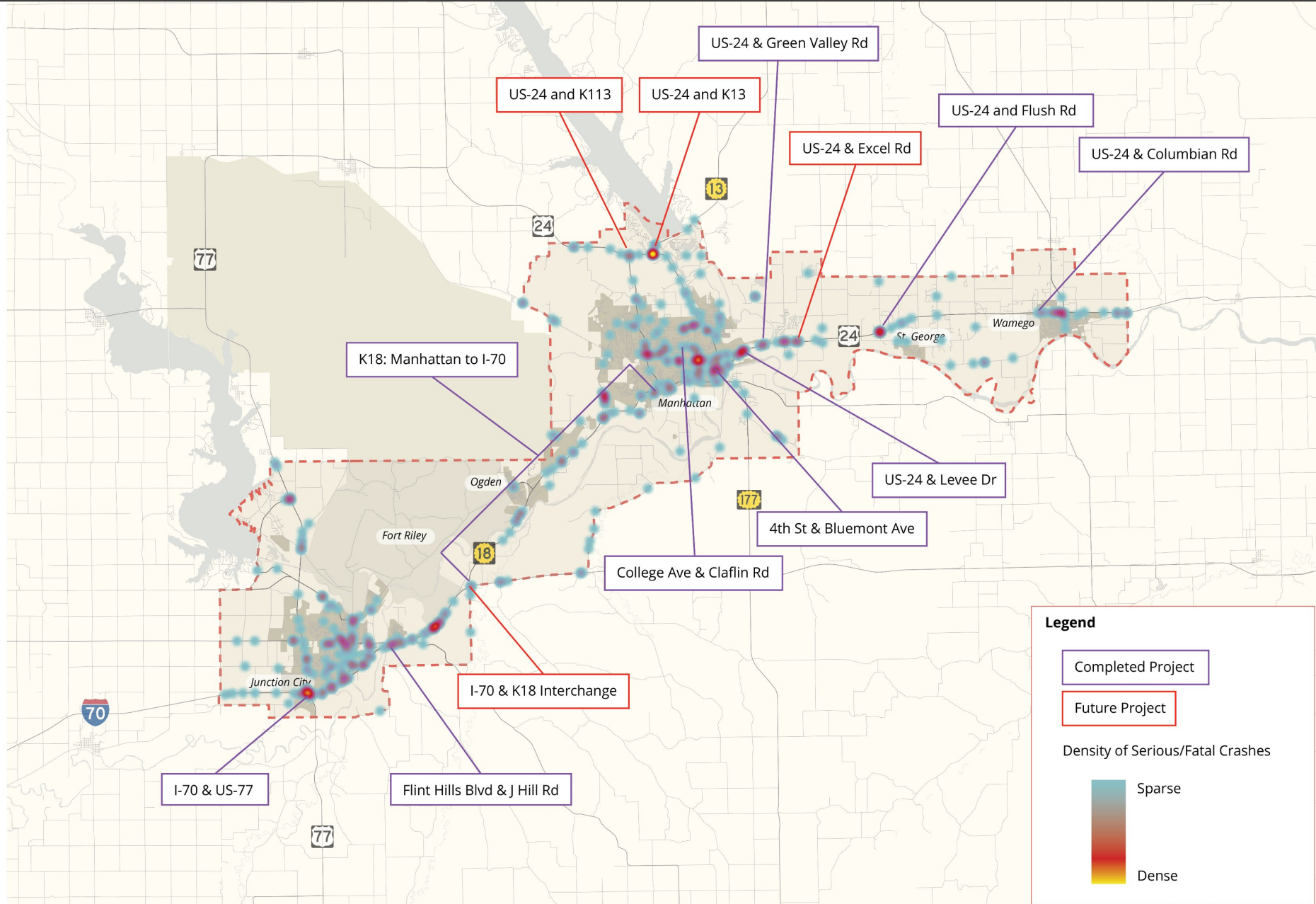


4 Fatal Crashes

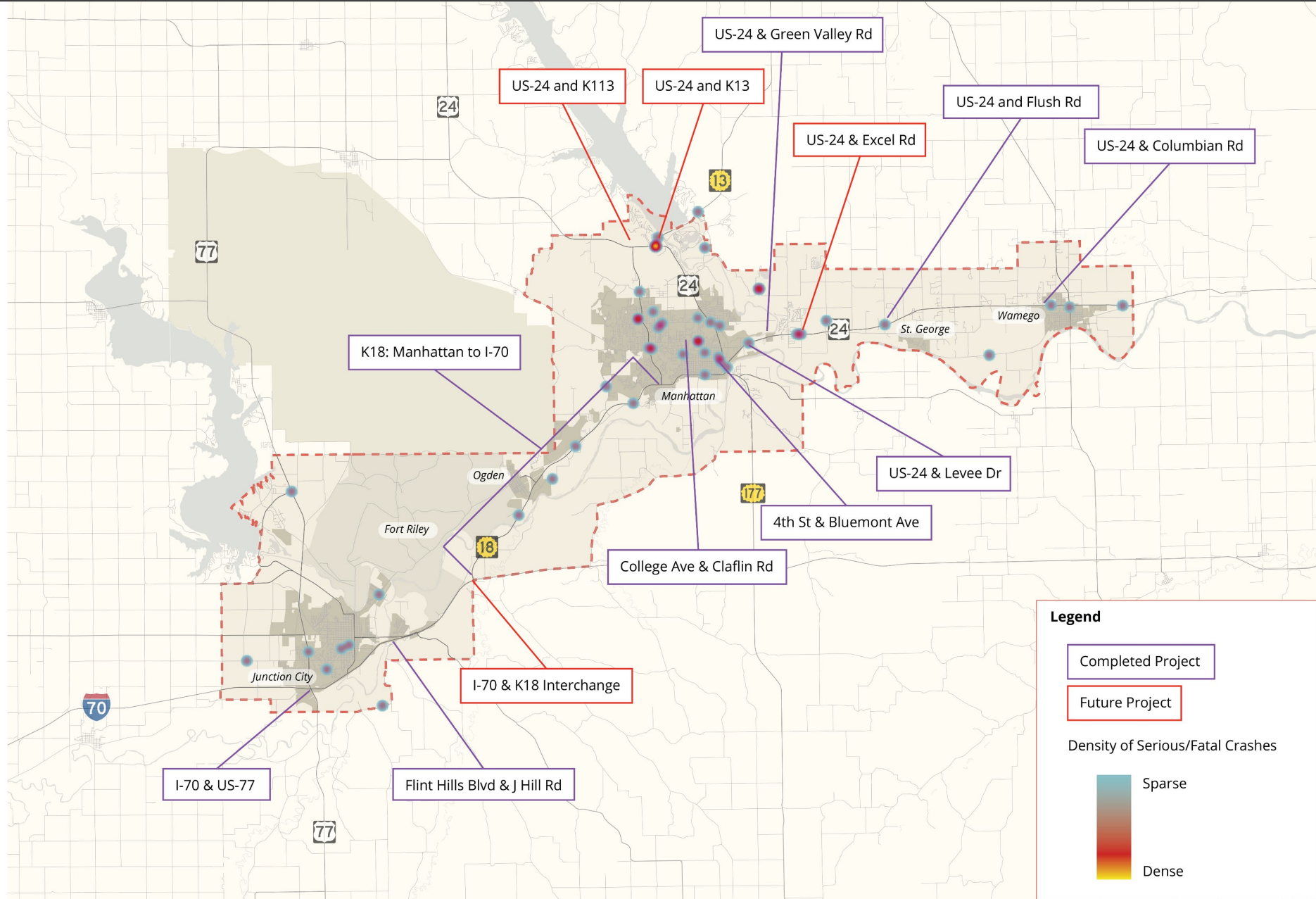
6 Fatalities



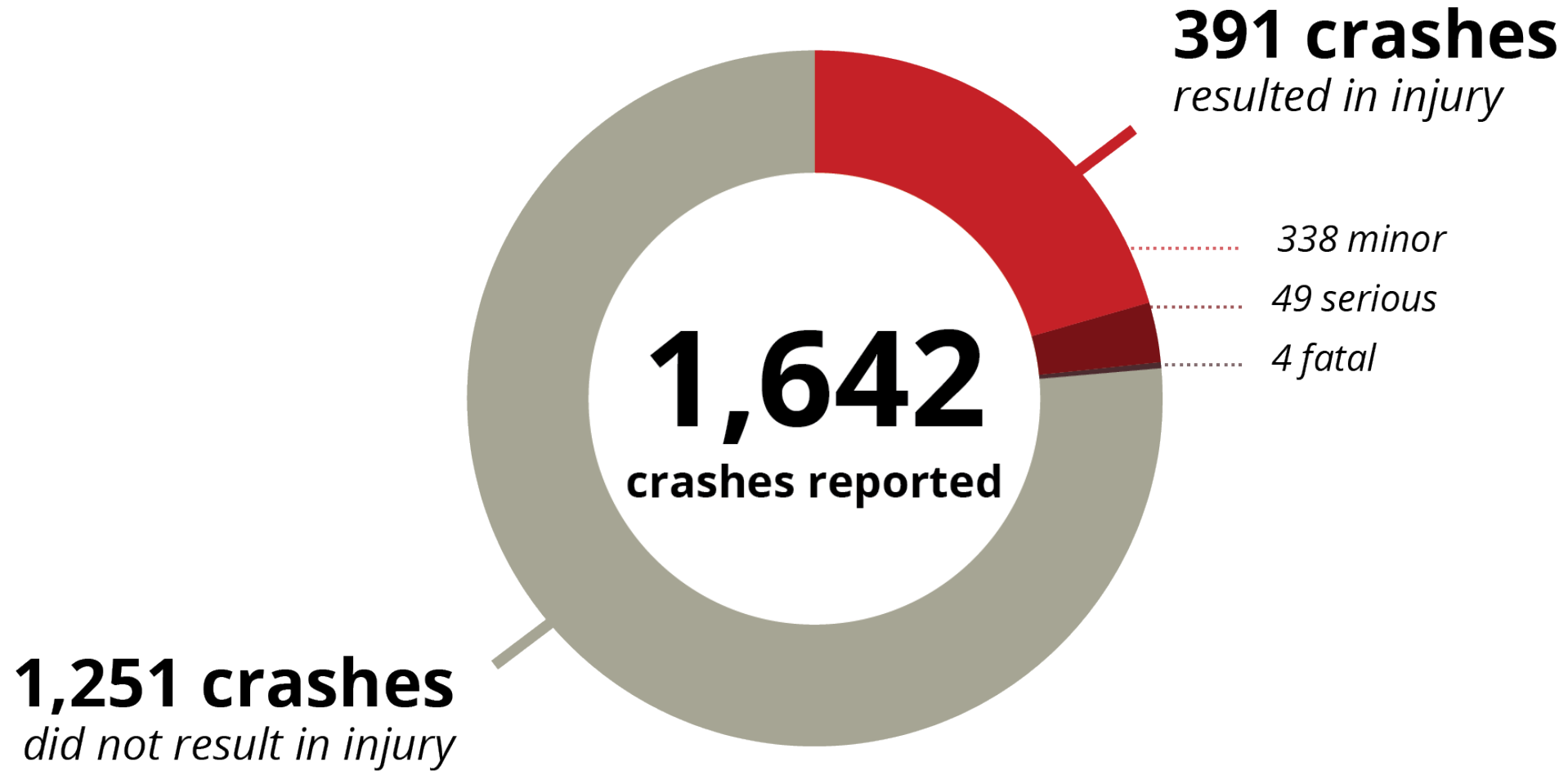
ADDRESSING HOT SPOTS WITH PROJECTS (2011-PRESENT)



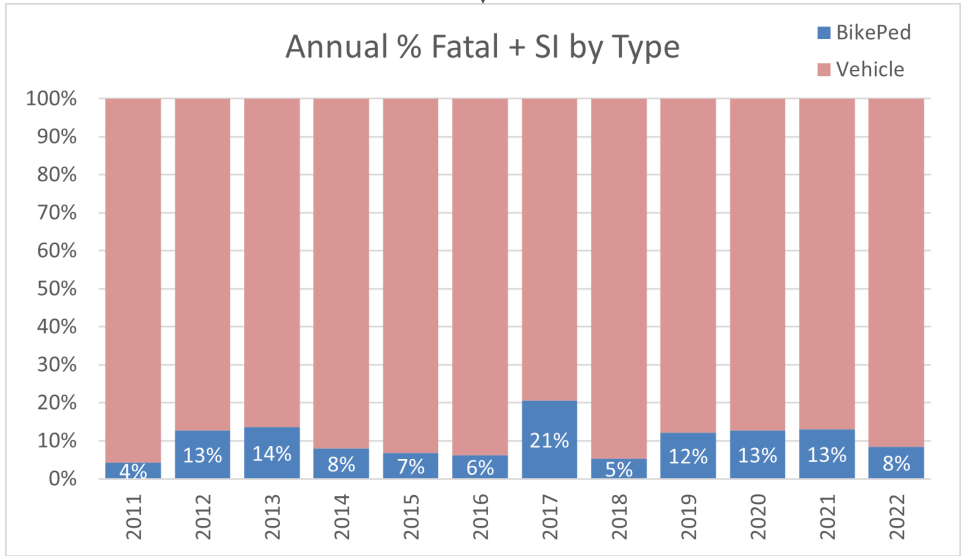
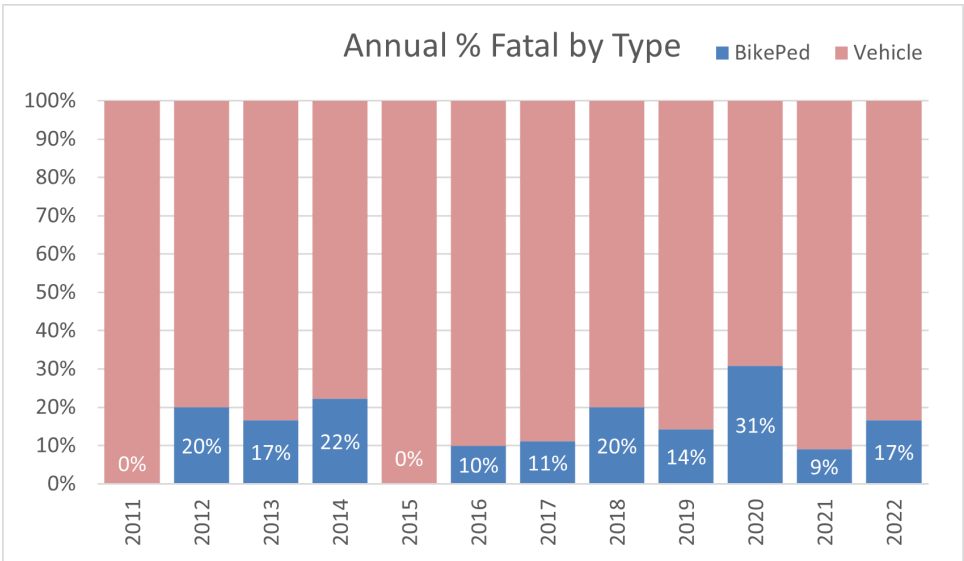
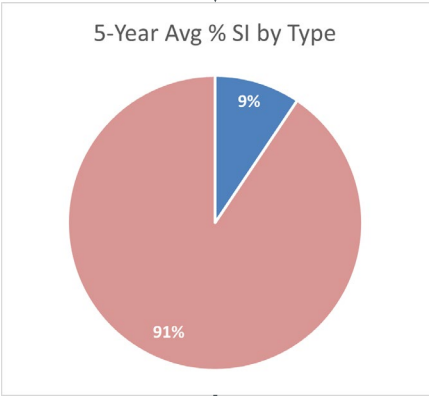
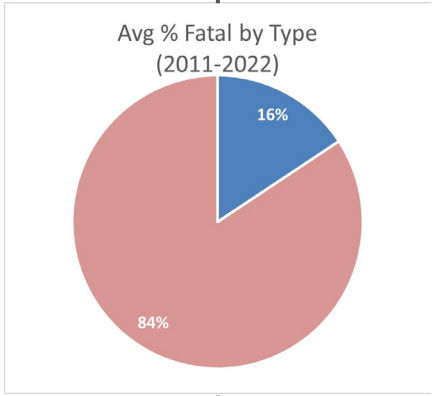
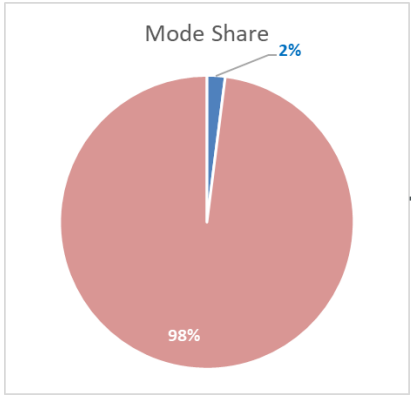
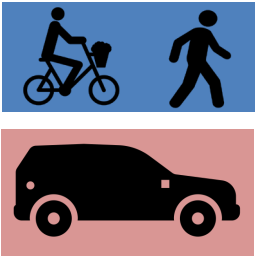
ADDRESSING HOT SPOTS WITH PROJECTS (2022)



CRASHES



TRENDS & CONCERNS

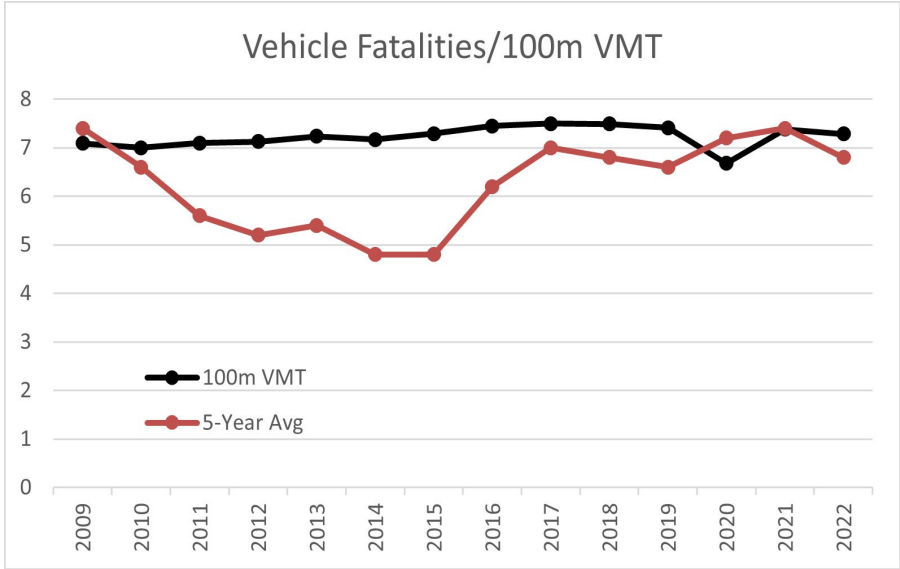


Fatalities
14 **75**

Serious Injuries
29 **279**



TRENDS & CONCERNS



- + Decrease in VMT
- + Decrease in fatalities
- Increase in crashes resulting in serious injury

45% Drop in Fatal Crashes

2021 total: 11
2022 total: 6

1.3% Drop in VMT

Decrease in miles driven from
2021 to 2022.

50% Increase in Serious Injuries

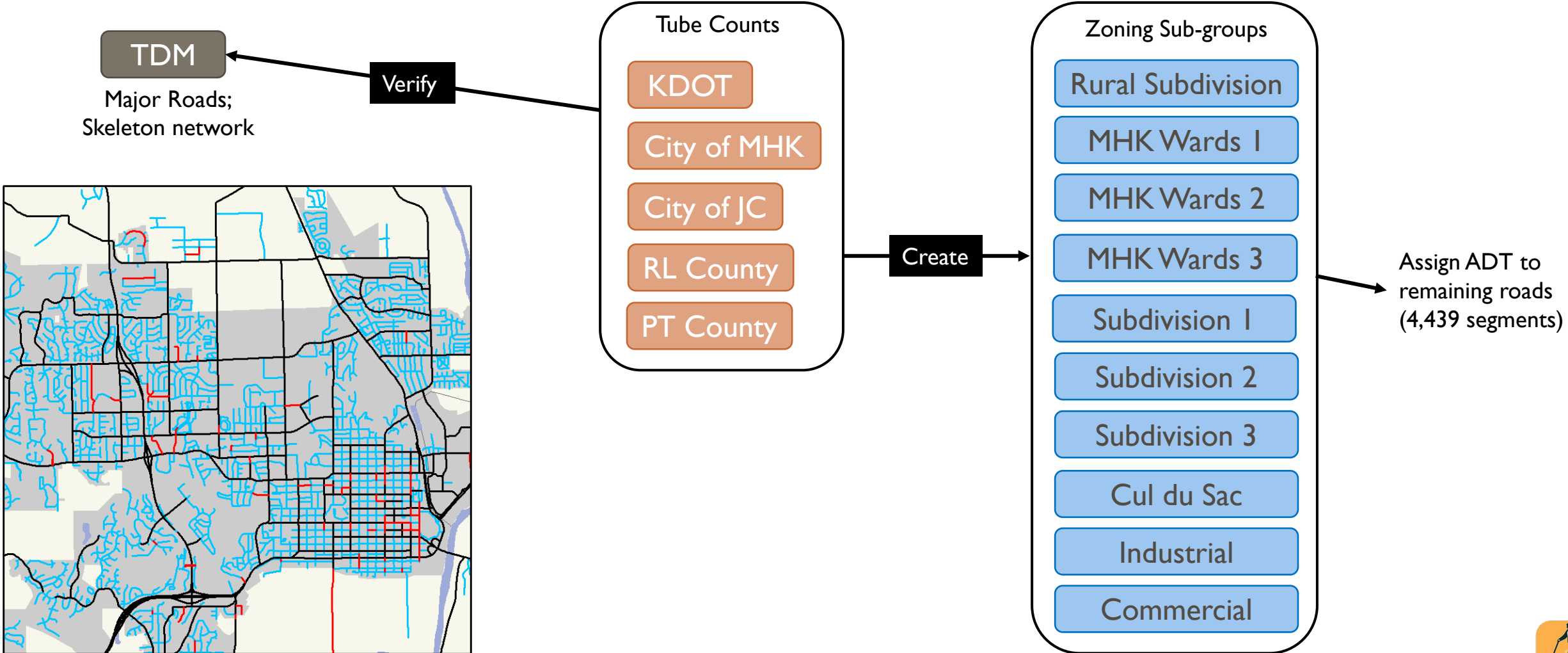
2021 total: 35
2022 total: 53



APPENDIX A

CALCULATING VMT

1. Calculate ADT for all Road Segments



APPENDIX A

CALCULATING VMT

2. Calculate VMT from ADT for all Road Segments

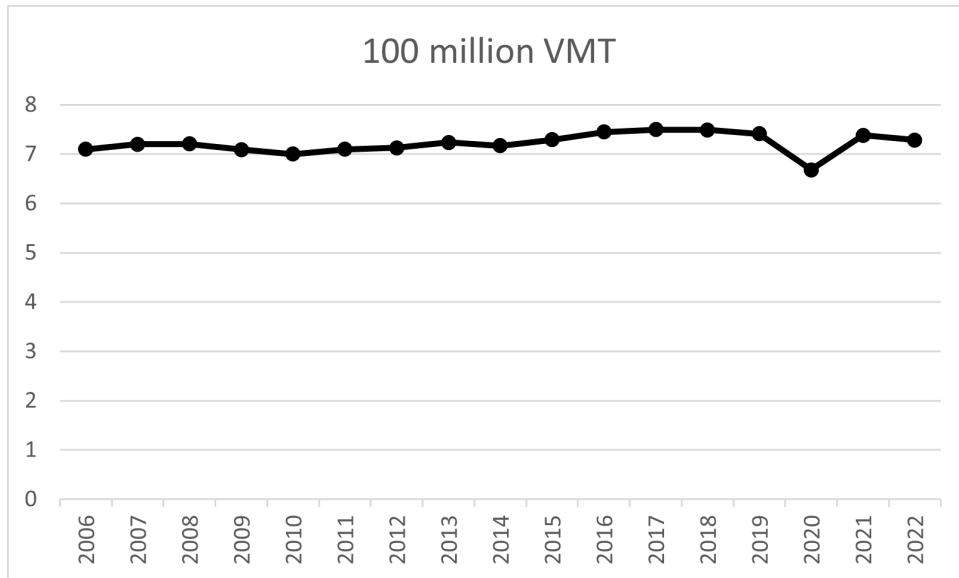
$$\left(\text{Road Length (ft)} \div 5280 \right) \times \text{ADT} = \text{Daily VMT}$$
$$\times 365$$
$$=$$

Annual VMT

2016 VMT: 744,949,486



2022 VMT: 728,505,547



Annual % change based on KDOT data

