TPPB Agenda 12.2.19 Item E9

# Vision Zero

Oct 23 TPPB

### 2013 to 2017

Crashes			Public Safety
Fatalities	44	38	Homicides
Incapacitating Injuries	399	617	Rape
Non-Incapacitating Injuries	3,096	2,682	Assault
Possible Injury	5,617	1,190	Robbery
All Crashes	26,819	39,854	All Incidents

42% of operating budget





# 2013 to 2017

2013-2017 Crashes	Total	Motorvehicle Only Crash	Motorcycle Flagged Crash	Moped Flagged Crash	Bike Flagged Crash	Ped Flagged Crash
Fatalities	44	22	4	_	4	14
A - Incapacitating Injury	399	248	39	13	28	71
B - Non-Incapacitating Injury	3,096	2,387	146	74	294	195
C - Possible Injury	5,617	5,215	68	38	157	139
Total Injuries	9,112	7,850	253	125	479	405
Total Crashes	26,819	25,398	316	150	537	418



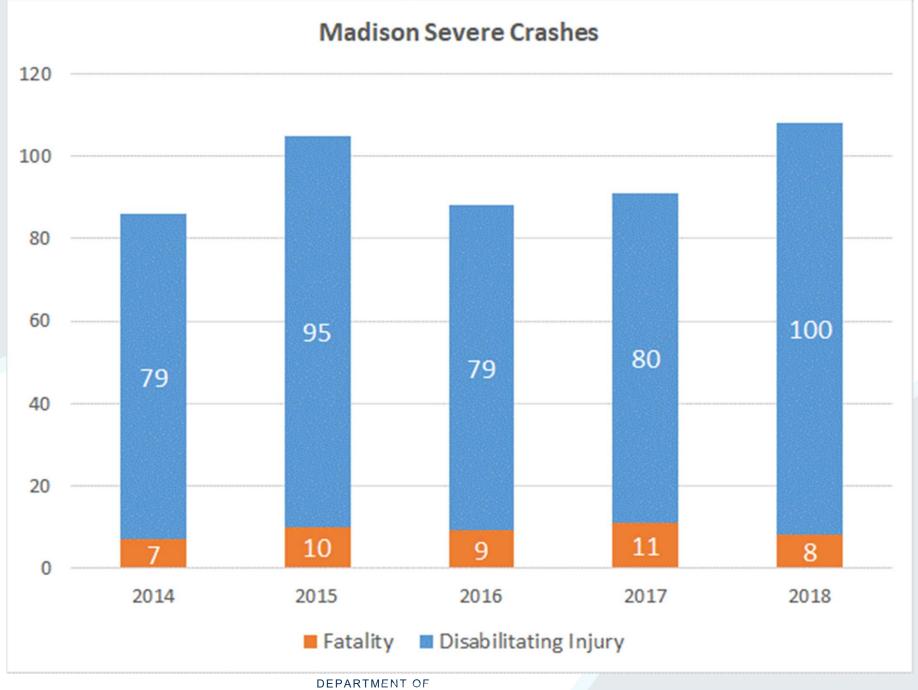
# **Magic Box**

- **Speed**
- Convenience
- Able to live where you want

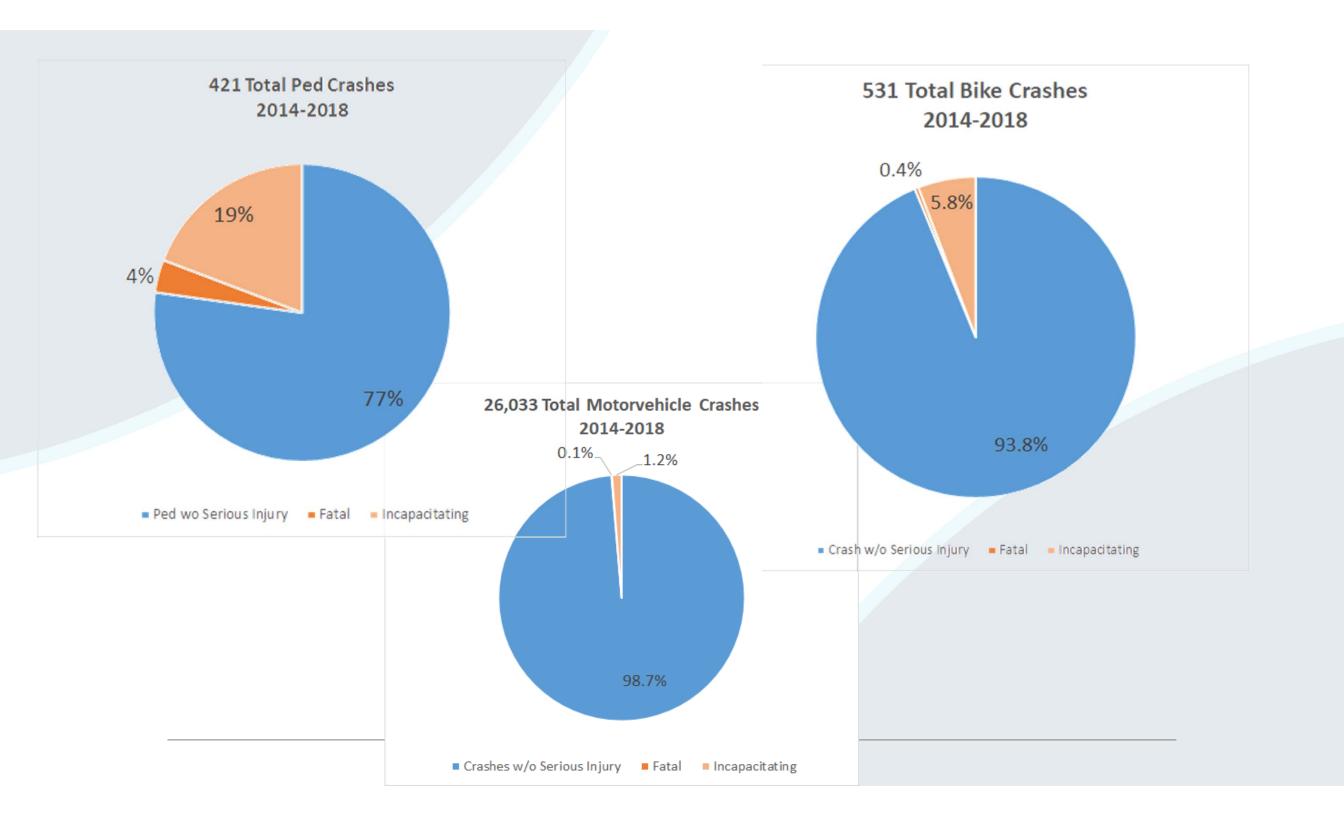


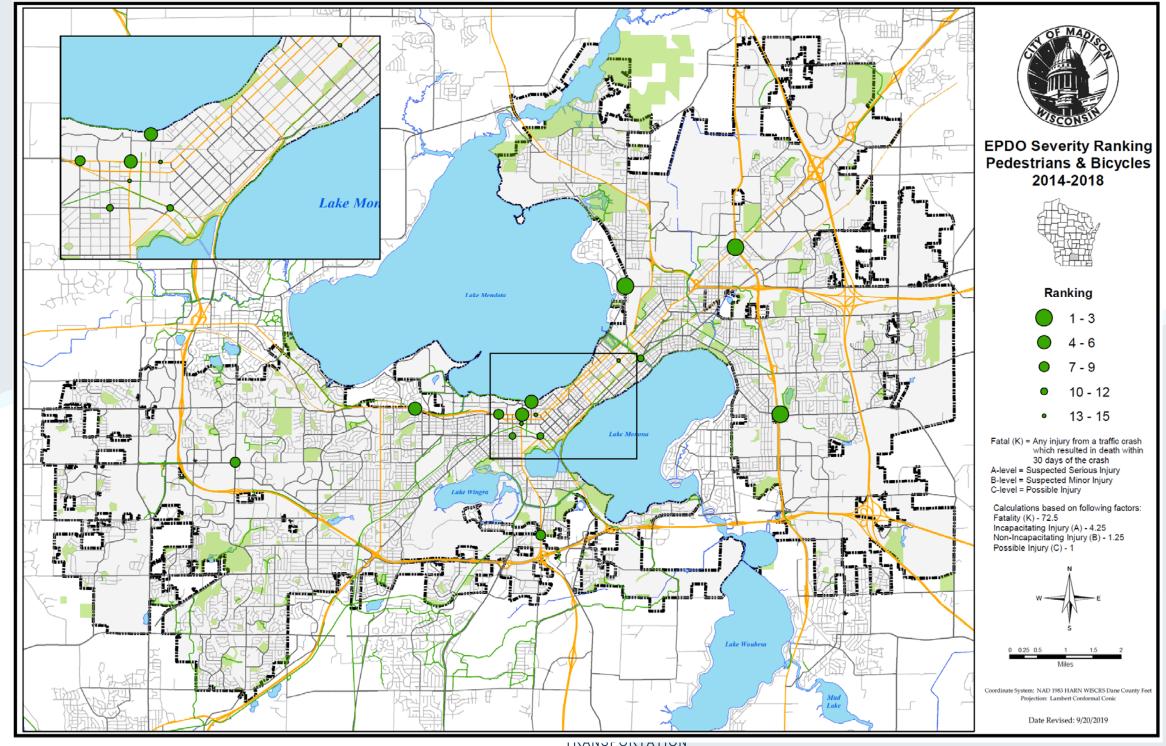












	Total	Total		
	Serious	Crashes	% Serious	% Crashes
Auto	348	26033	73%	96.5%
Bike	33	531	7%	2.0%
Ped	96	421	20%	1.6%
	477	26985		



### VISION44:(•NETWORK

# What is Vision Zero?

Vision Zero is a strategy to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, equitable mobility for all. First implemented in Sweden in the 1990s, Vision Zero has proved successful across Europe — and now it's gaining momentum in major American cities.

- 1. Traffic deaths and severe injuries are acknowledged to be preventable.
- Human life and health are prioritized within all aspects of transportation systems.
- Acknowledgement that human error is inevitable, and transportation systems should be forgiving.
- Safety work should focus on systems-level changes above influencing individual behavior.
- 5. Speed is recognized and prioritized as the fundamental factor in crash severity.

#### TRADITIONAL APPROACH

Traffic deaths are INEVITABLE

**PERFECT** human behavior

Prevent COLLISIONS

**INDIVIDUAL** responsibility

Saving lives is **EXPENSIVE** 

#### **VISION ZERO**

Traffic deaths are PREVENTABLE

Integrate HUMAN FAILING in approach

Prevent FATAL AND SEVERE CRASHES

SYSTEMS approach

Saving lives is NOT EXPENSIVE

DEPARTMENT OF





VS



### From Engineering to a Public Health Perspective

While traditional approaches to transportation safety have prioritized reducing or preventing collisions, Vision Zero instead advocates for the focus to be *preventing injuries*.

Instead of asking "Why did that person crash?" the Vision Zero framework examines "Why was that person so seriously injured in the crash?" This change in thinking, from collision reduction to injury prevention, represents a significant shift from an engineering to a public health perspective.



#### **Vision Zero Cities**

#### A Vision Zero City meets the following minimum standards:

- Sets clear goal of eliminating traffic fatalities and severe injuries
- Mayor has publicly, officially committed to Vision Zero - Vision Zero plan or strategy is in place, or Mayor has committed to doing







### A Vision Zero City meets the following minimum standards:

- Sets clear goal of eliminating traffic fatalities and severe injuries
- Mayor has publicly, officially committed to Vision Zero
- Vision Zero plan or strategy is in place, or Mayor has committed to doing so in clear time frame
- Key city departments (including Police, Transportation and Public Health) are engaged.

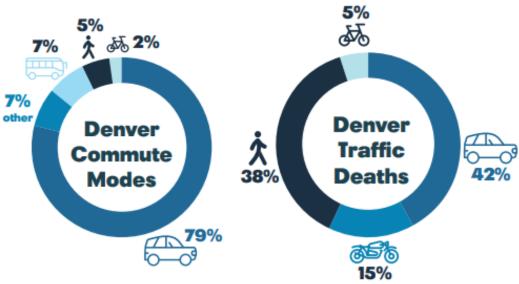
70% of San Francisco's severe and fatal traffic injuries occur on just 12% of our streets.

The "High Injury Network" (HIN) helps prioritize city efforts and funds, and ensures Vision Zero initiatives support the people and places most in need.

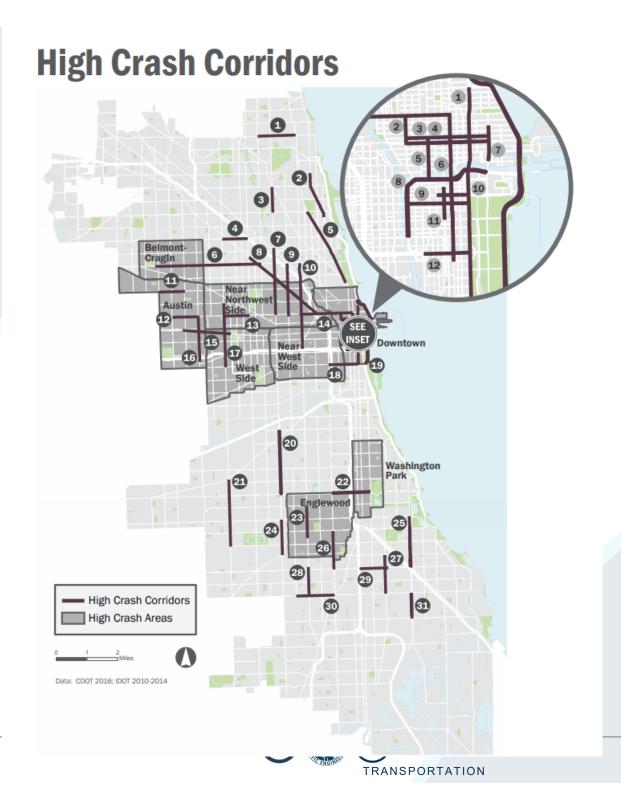


### Denver

# Data can help identify disproportionate safety impacts



**50%** of Denver's traffic fatalities occur on just **5%** of their streets

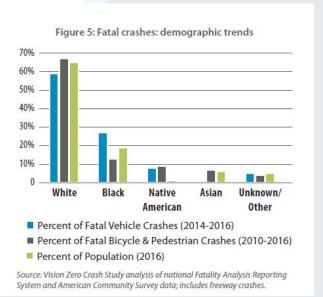


# Chicago

#### Minneapolis High Injury Streets **Vision Zero Action Plan** High Injury Streets to Monitor: These streets have had recent **High Injury Streets** safety improvements 44TH AVE N High Injury Streets with STINSON BLVD Planned Safety Improvements in 2020 or 2021 ACP50 Area: Area of Concentrated Poverty where a majority of residents are people of color LOWRY AVE N EMERSON AVE N The City will continue to work with partners **BROADWAY ST NE** at Hennepin County and the Minnesota Department of Transportation to make OLSON MEMORIAL HWY safety improvements to High Injury Streets. 1ST ST S There are 114 miles of High Injury Streets: • 46 miles are FRANKLIN AVE SE FRANKLIN AVE E City-ow Figure 4: Severe injuries/deaths by mode 48 mile County-LAKE ST W 19 mile LAKE ST E **MnDOT** 44% of H 38TH ST W 38TH ST E Streets a which on 24% of to ■ Percent of Trips ■ Percent of Severe Injuries/Deaths in the cit 46TH ST E Source: Injuries/deaths from Vision Zero Crash Study, percent of trips from 2010 Met Council Travel Behavior Inventory. Automobile category includes cars, trucks, & motorcycles, but not transit.

# **Minneapolis**

#### Past week



## State of Wisconsin

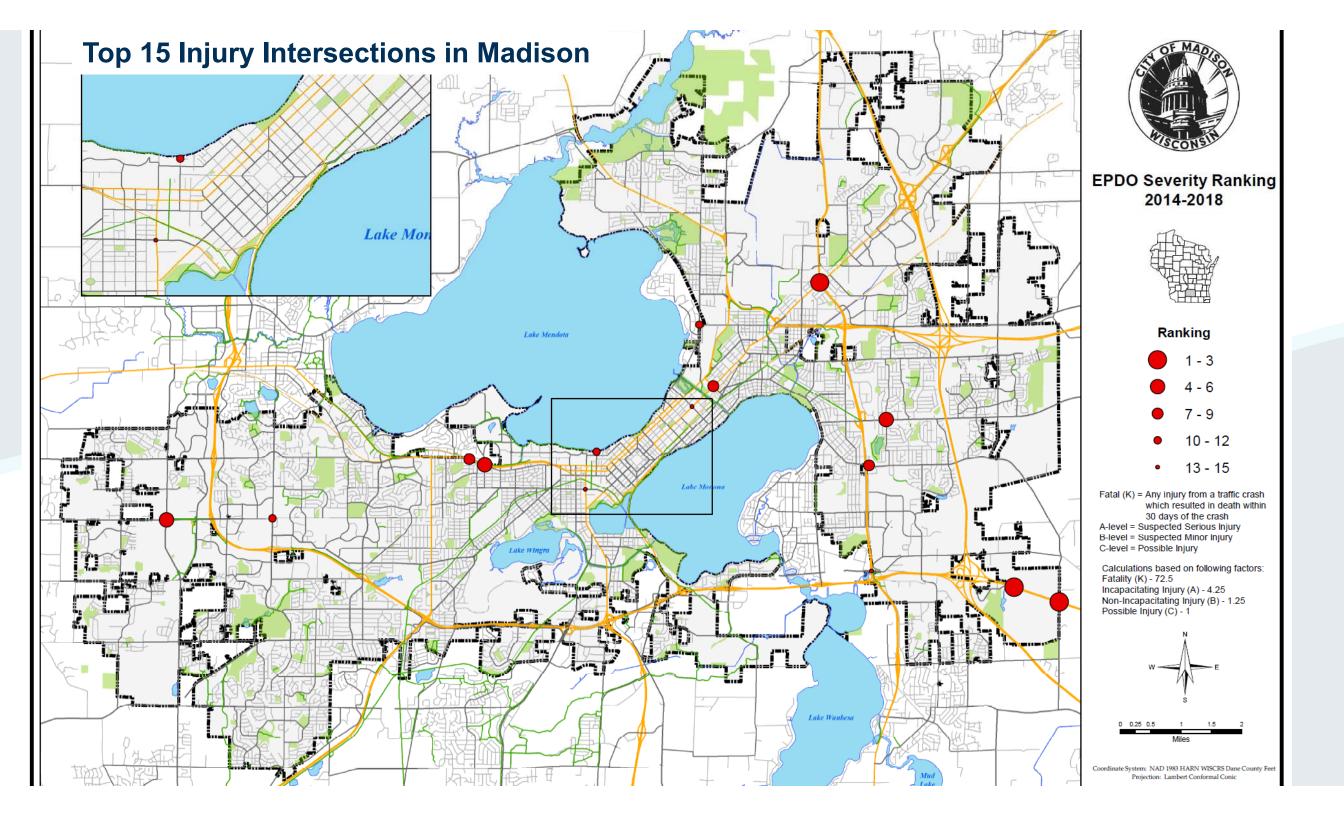
**Recent study by Wisconsin TOPS lab** 

### Crash Cost by Type and Severity

SEVERITY		CRASH TYPE				
		PED	BIKE	VEH		
K	Fatal	\$3,305,922	\$3,147,627	\$3,782,512		
A	Incapacitating	\$433,383	\$362,759	\$389,169		
В	Non-Incapacitating	\$113,100	\$90,303	\$107,674		
С	Possible Injury	\$73,539	\$60,060	\$56,365		
0	Property Damage	\$35,692	\$49,042	\$24,322		

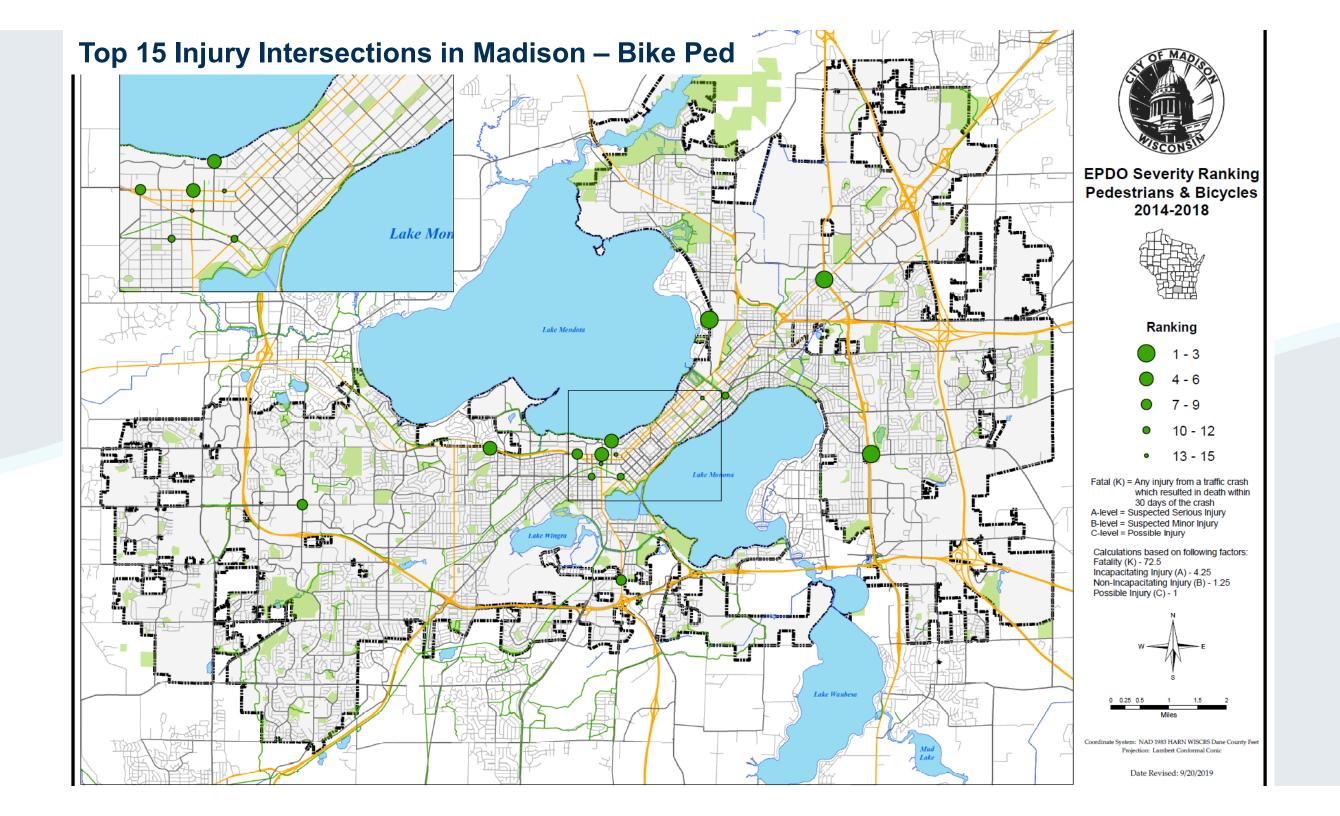
Motor Vehicle-Pedestrian (PED), Motor Vehicle-Bicycle (BIKE), Motor Vehicle Only (VEH)





Se Top	15 Injury Intersections in Madison				Cra	sh Seve	rity
Rank (EPDO)	Intersection	Traffic Control	Severity (EPDO)	Total Crashes	Fatal	Injury	PDO
1	N Stoughton Rd & E Washington Ave	Signal	416.7	60	2	17	41
2	US Highway 12 & 18 & Millpond Rd	Stop	287.5	44	1	15	28
3	US Highway 12 & 18 & Brandt Rd	Stop	251.7	28	1	16	11
4	Campus Dr & Farley Ave	Signal	241.9	29	1	15	13
5	Acewood Blvd & Cottage Grove Rd	Signal	210.6	28	1	13	14
		Yield					
6	Mineral Point Rd & N Pleasant View Rd	(Round)	205.8	181	0	11	170
7	Blossom Ln & E Buckeye Rd	Stop	162.2	14	1	5	8
8	N First St & E Washington Ave	Signal	155.2	54	0	22	32
9	Ridge St & University Ave	Signal	141.4	7	1	3	3
10	Commercial Ave & N Sherman Ave	Signal	139.9	5	1	0	4
11	S Gammon Rd & Mineral Point Rd	Signal	136.6	53	0	20	33
12	N Lake St & Mendota Ct	No Control	135.9	1	1	0	0
13	N Park St & Regent St	Signal	122.6	54	0	21	33
14	N Baldwin St & E Washington Ave	Signal	118.3	53	0	16	37
15	E Broadway & S Stoughton Rd	Signal	115	57	0	23	34

TRANSPORTATION



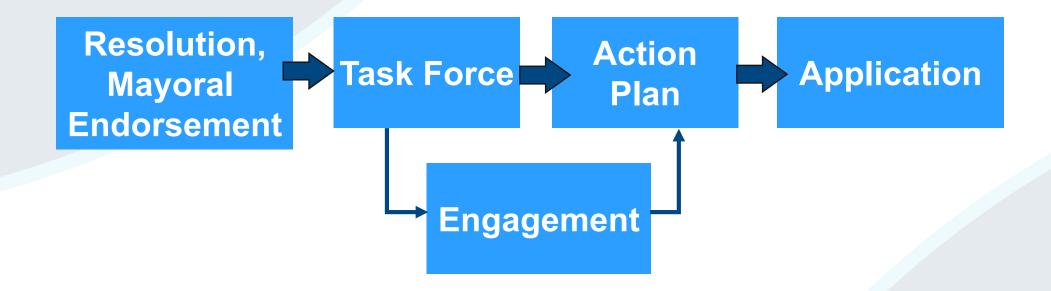
**Top 15 Injury Intersections in Madison – Bike Ped** 

Severity				
Rank				Total Crashes
(EPDO)	Intersection	Traffic Control	Severity (EPDO)	(Ped/Bike)
1	N Stoughton Rd & E Washington Ave	Signal	177.7	5
2	Blossom Ln & E Buckeye Rd	Stop	137.4	2
3	Commercial Ave & N Sherman Ave	Signal	135.9	1
4	N Lake St & Mendota Ct	No Control	135.9	1
5	Ridge St & University Ave	Signal	129.4	1
6	N Park St & University Ave	Signal	65.8	14
7	N Randall Ave & University Ave	Signal	62.2	16
8	S Gammon Rd & Mineral Point Rd	Signal	48.3	6
9	Buick St & S Park St	Signal	44.6	5
10	N Mills St & Regent St	Signal	41.3	7
11	S Thornton Ave & Williamson St	Stop	39.3	3
12	Southwest Path & W Washington Ave	Stop	38.5	5
13	N Baldwin St & E Washington Ave	Signal	37.2	7
14	N Frances St & W Gilman St	Signal	34.7	10
15	W Dayton St & N Park St	Signal	31.9	5

The Vision Zero Network will recognize as "Vision Zero communities" those who are taking demonstrable and significant actions to advance the principles of Vision Zero to ensure safe mobility for all people. At a minimum, this includes the community meeting the following criteria:

- Setting a clear goal of **eliminating traffic deaths** and serious injuries among all road users within an **explicit timeframe** (i.e. 10 years);
- The Mayor (or top elected official) publicly, officially committing to Vision Zero within the set timeframe and directing appropriate city staff to prioritize the work;
- A Vision Zero Action Plan or Strategy is in place, or the Mayor and key
  departments have committed to creating one in a specified time frame and which
  includes a focus on being data driven, equitable, and including community input;
- Key city departments, including Transportation, Public Health, Mayor's Office, and Law Enforcement, are actively engaged as leaders and partners in the process of developing the Vision Zero Plan, implementing it, and evaluating and sharing progress;
- A Vision Zero Task Force (including the agencies listed above, as well as community stakeholders, and others) meets regularly to lead and evaluate efforts.

## **Process**





# **Opportunities**

- Systems approach to speed
  - Neighborhoods
  - Major corridors
- Targeted Focus on Most Dangerous Intersections
  - Top 10 to 15 gets us pretty far