MINNESOTA DEATHS TOWARD ZERO DEATHS

15 Years of Minnesota TZD: Major Accomplishments and What the Future Holds?

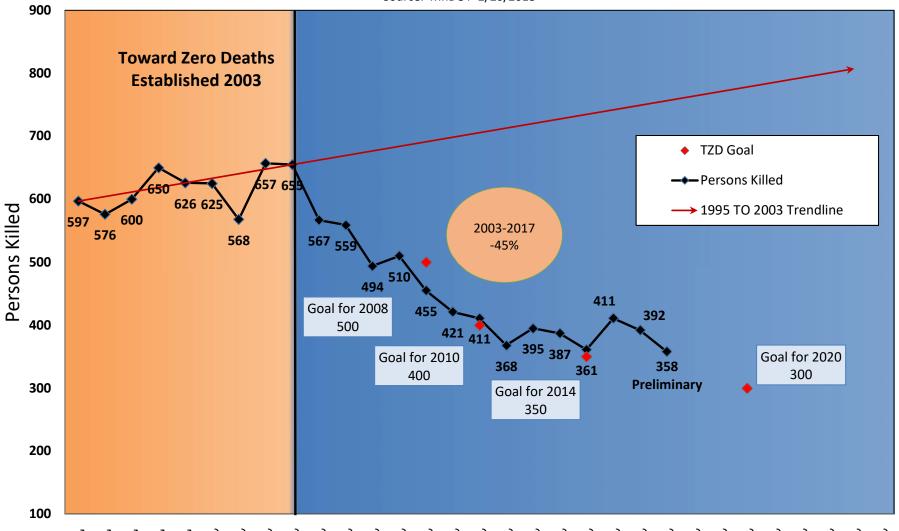
Kristine Hernandez Statewide Toward Zero Deaths Program Coordinator MnDOT Office of Traffic Engineering



May 30, 2018

Minnesota Roadway Fatalities

Source: MnDOT 2/20/2018



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How are other states doing?

Illinois, Indiana, Michigan, Minnesota, Ohio and Wisconsin



NHTSA Region 5

OH

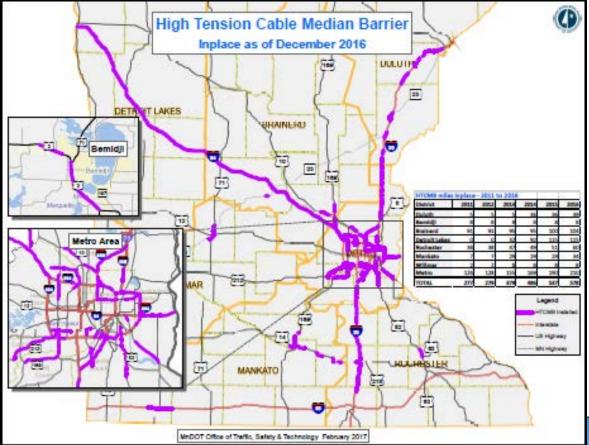
IN

MIN

Region

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Minnesota High Tension Cable Median Barrier

95% Reduction in Fatal Head-on Crashes

2003: None 2014: More than 450 miles 2016: 578 miles





Roundabouts



- Removes Right Angle
 Crash potential
 (T-bone crashes)
- Reduces severe crashes by 80-90%
- Delay Reduction versus a 4-way Stop or Signalization

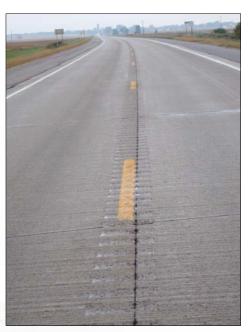
Description	Total Crashes	К	Α	В	C	PDO
Before Crash Rate	0.442	0.0062	0.015	0.054	0.124	0.243
After Crash Rate	0.323	0.001	0.0025	0.022	0.054	0.244
Percent Increase/Decrease (By Rate)	-27.0%	-89.9%	-83.4%	-60.9%	-56.3%	+0.4%



Edgeline & Centerline Rumble Strips









Reduced Conflict Intersections



- **100%** Reduction in Fatal and Serious Injury Crashes
- 77% Reduction in Right Angle Crashes
- Many more sites planned, programmed, or in development

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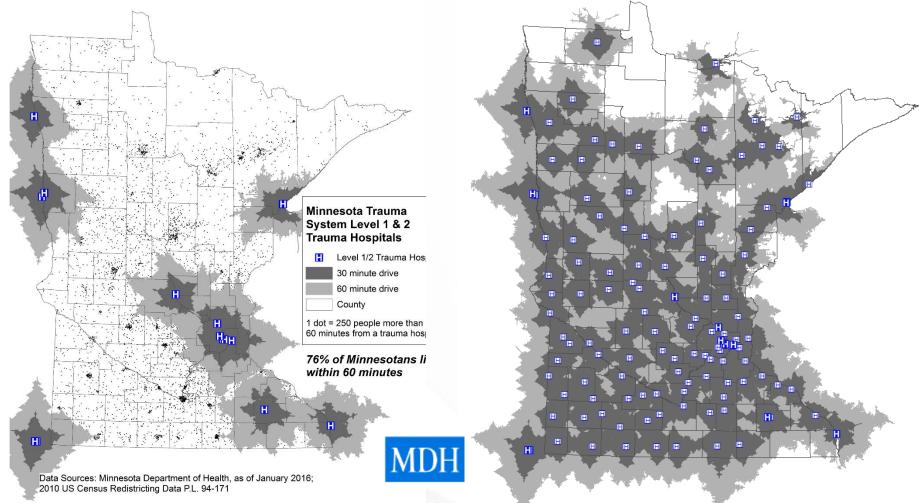
County Road Safety Plans



According to Rick West, Otter Tail County engineer: "...provide practitioners with a detailed, prioritized county-wide, safety plan to guide and support future safety investments. The benefits far outweigh the challenges and have resulted in a safety culture change in Otter Tail County."



Established Statewide Trauma System



Map by MDH Cardiovascular Health Unit, January 2016



Pre- and Post-TZD

Statewide Aero Medical Policy

 "Es" coming together for incident management

 Reduces response time

 Removes liability in decisionmaking







Losing a Loved One

A wife who loses a husband is called a widow.

A husband who loses a wife is called a widower.

A child who loses his parents is called an orphan.

But there's no word for a parent who loses a child; that's how awful the loss is!

Jay Neugeboren; An Orphan's Tale



Point of Impact: Teen Driver Safety Parent Awareness Classes





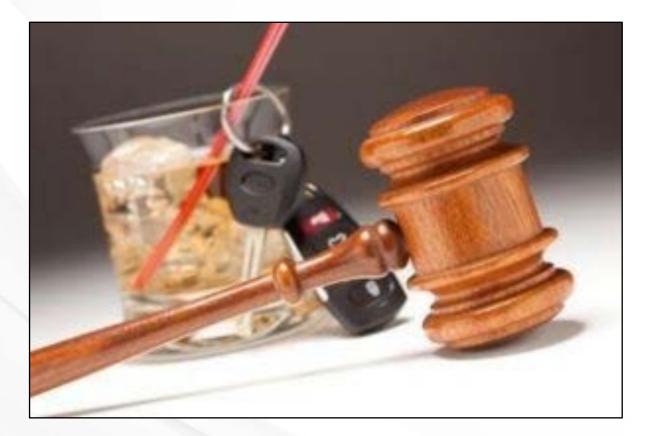
School of Medicine

TRAFFIC CRASHES ARE THE #1 KILLER OF TEENS BUT THAT STATISTIC CAN CHANGE...

preparing new drivers for the road ahead









Enforcement

- Highly Visible
- Targeted
- Coordinated state and local efforts
- Multi-state border to border efforts





Driver License Sanctions – Ignition





The number of impaired (BAC ≥ 0.08%) drivers in fatal crashes falls

3% when states require interlocks for repeat offenders only

8% when states require interlocks for repeat offenders and first offenders with high BACs





Motorcycle Safety Training



- 2011: MN Advanced Rider Courses
- 2012: MN Expert Rider Courses
- Added Trainings: 3-Wheel, Moped, Road Guard, Skills Re-test, etc.

1986: 375 Students Through 2017: 169,740 students in all courses



Teen Hands-on Learning Activities







Wheel of Distraction

Pedal Kart Obstacle Course

TZD Buckle Up Stencil

Example: Bemidji State University (Pennington & Red Lake Counties)

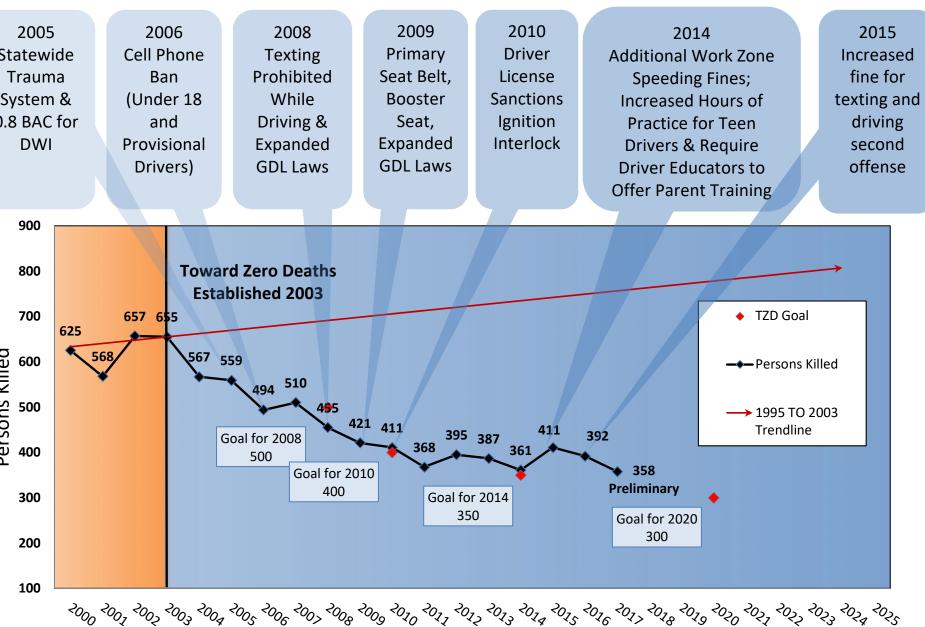






Minnesota Roadway Fatalities

Source: MnDOT 2/20/2018





What is Traffic Safety Culture?

Shared:
Values
Beliefs
Norms
Attitudes





North Memorial Health Care





Safeway Driving School





MnDOT Fleet & Watercraft! 2017: 3-Year Traffic Safety Culture Community Pilot Program begins

3-Phase Work Plan

- Establish community partnerships
- Develop traffic safety culture strategies
- Implement traffic safety strategies



Message Monday!



November 2016 Partnering with MnDOT & DPS Sharing with Iowa & Wisconsin DOTs



From a Facebook message:

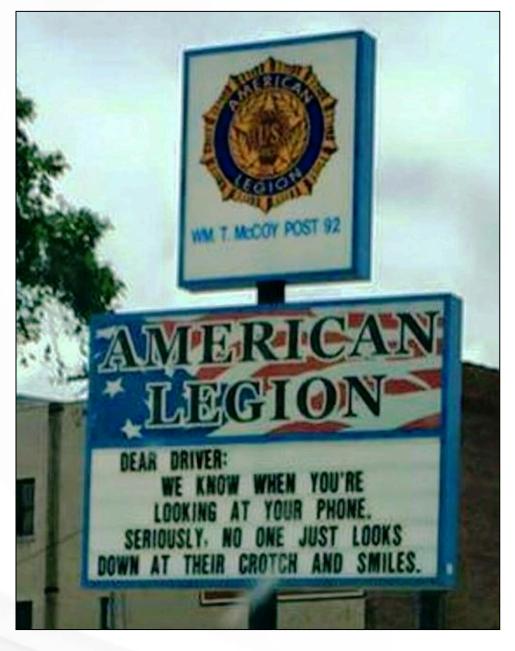
Hi MnDOT! I am a Pennsylvania resident, but was out in Minnesota visiting friends



and saw your sign on 62 near Minnetonka. I loved it so much, I stitched it on a T-shirt and I wanted to share. Have a great day!!



Traffic Safety Culture





What Makes TZD Successful?

Addresses all roads
Multidisciplined, "4-E" approach
Proactive/ systematic

Breakdown



obstacles (time, attention, silos, resources, habits, turf, credit, attitude)



What lies ahead?





The Future: Automated Vehicles



AN BROWNING, STAR TRIBUNE





Speed Study Pilot Project – Portable Speed Signs



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LIMIT

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"It is an education tool and an enforcement enhancer, it puts the driver on notice." - Capt. Joe Dwyer, MSP District 2800

Future: Partnerships with Neighboring/Midwestern states

- North Dakota
- South Dakota
- lowa
- Wisconsin
- Illinois
- Michigan



Minnesota TZD State Conference or Midwest TZD Conference?



Increase Active Statewide Coalitions to all 87 Counties

Counties without coalitions

Kittison	Mahnomen	Pipestone
Roseau	Wilkin	Lincoln
Lake of the Woods	Traverse	Brown
Clearwater	Stevens	Rock
Norman	Роре	Sibley
Red Lake	Becker	Waseca
Pine	Cass	Steele
Koochiching	Wadena	Mower
Cook	Todd	Carver

Hennepin Anoka

DEATHS

NE, NW, WC, EC, SW, SC, SE, Metro

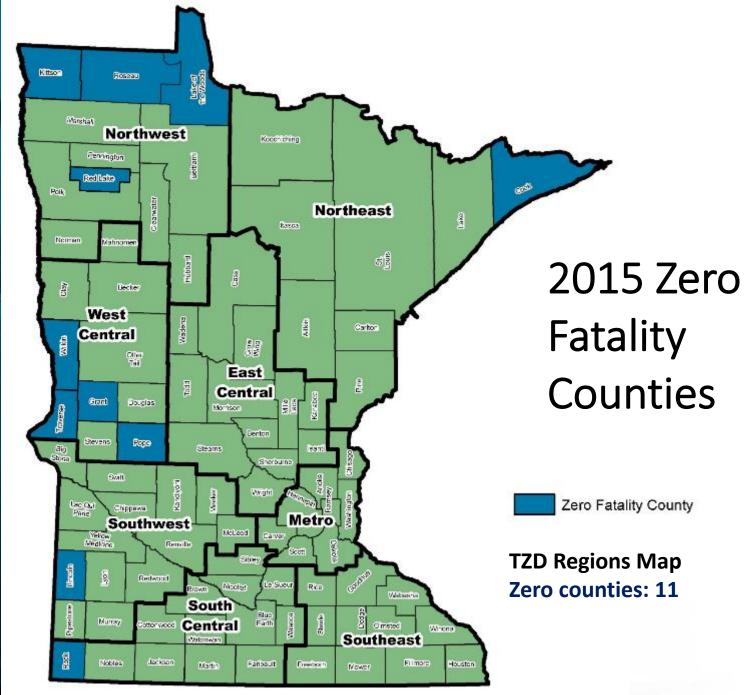


Please share your ideas with us!

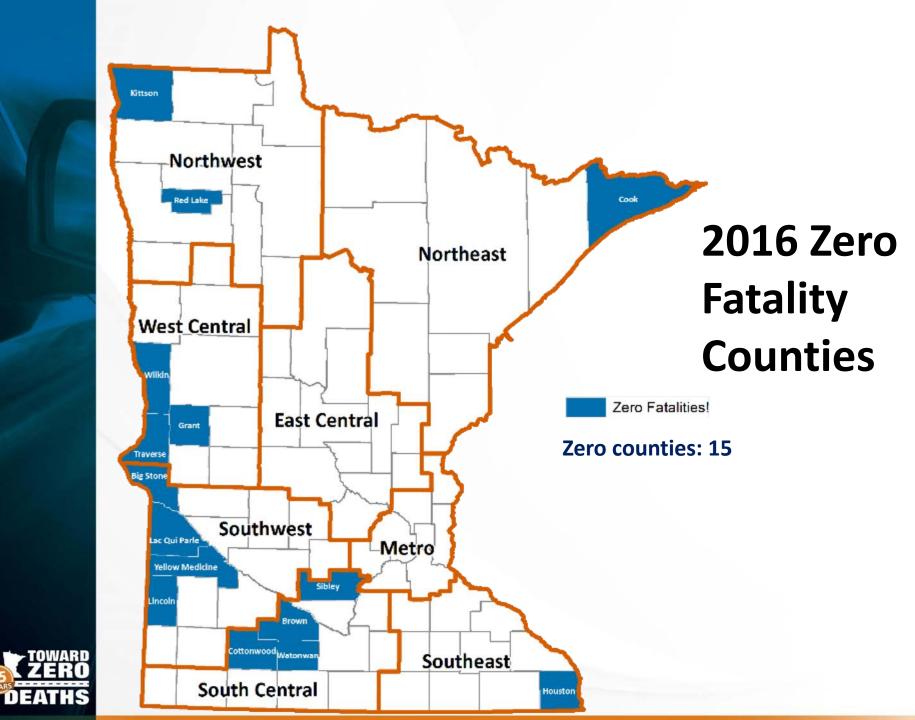


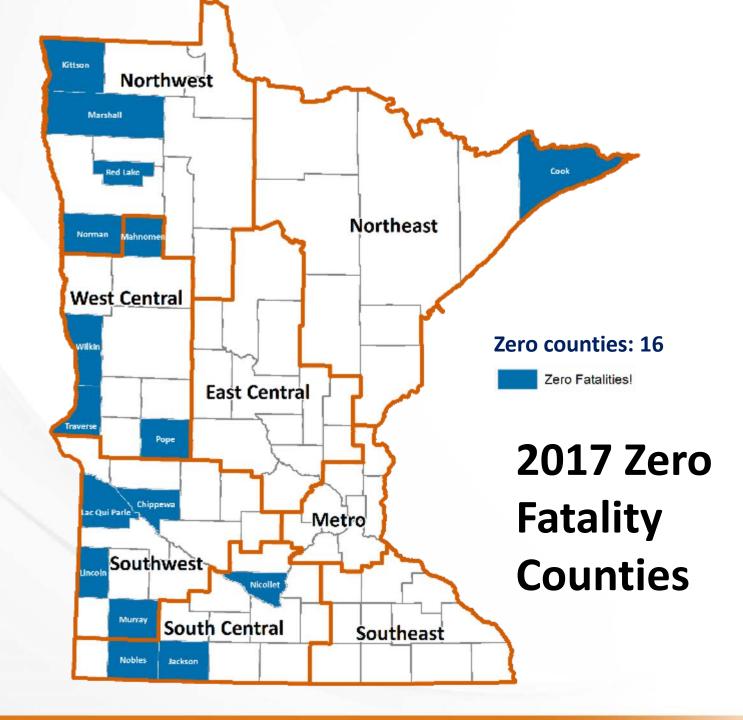
We are in this together for our communities, families and friends.













Can We Get to Zero?



Zero is attainable — but it will take all of us working together to get there!



Questions & Answers

Contact Information

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