



# Michigan's Traffic Crash Data: Yeah, It's Dangerous Out There!

Michigan Safety Conference  
April 17, 2024

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Office of Highway Safety Planning  
Michigan State Police

# Office of Highway Safety Planning (OHSP)

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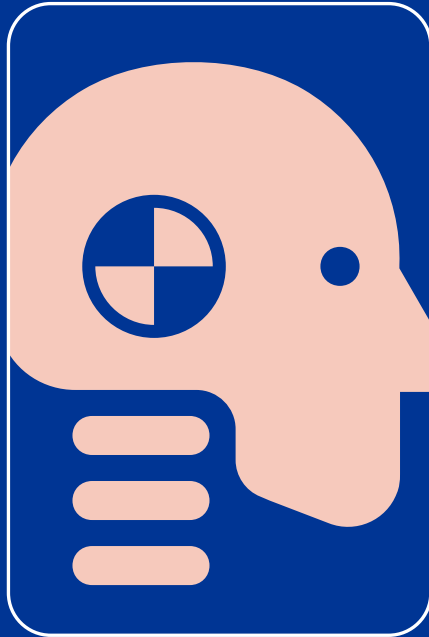


## Mission

To save lives and reduce injuries on Michigan roads through leadership, innovation, facilitation, and program support in partnership with other public and private organizations.

# Crash Not Accident

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When we call something an "accident," it implies that no one is at fault and that no one, including the driver, bears responsibility for the outcome.

The term "crash," on the other hand, is more specific in terms of the action's outcome without the unpreventable implication.

It is vitally important that we use the right words to describe the situation, especially when distracted driving, impaired driving, and other avoidable actions are at the center of an incident.

# 2022 Michigan Crash Clock

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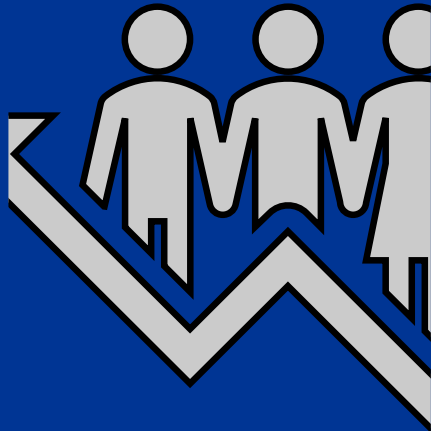
Every **1 minute and 48 seconds**, a traffic crash was reported in Michigan.

As a result of a traffic crash:

- Every **7 minutes and 29 seconds**, one person was injured.
- Every **7 hours and 48 minutes**, one person was killed.

# 2022 General Crash Data

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In the 293,341 **reported** crashes in 2022, there were:

241,222 property damage-only crashes

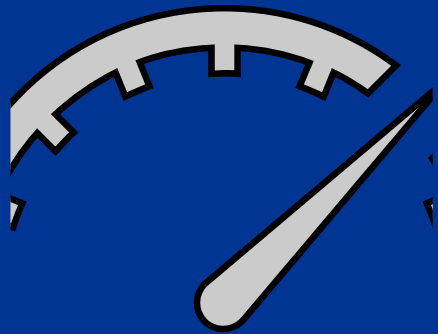
51,066 personal injury crashes with 70,281 people injured

1,053 fatal crashes with 1,123 fatalities

29.2% of the fatal crashes occurred at intersections

# Speeding/Aggressive Driving

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Excessive speed by any motorist, or non-motorist, that was a factor in a crash.

# Setting MI Speed Limits

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The Michigan Dept of Transportation and MSP jointly set speed limits based on the 85<sup>th</sup> percentile.

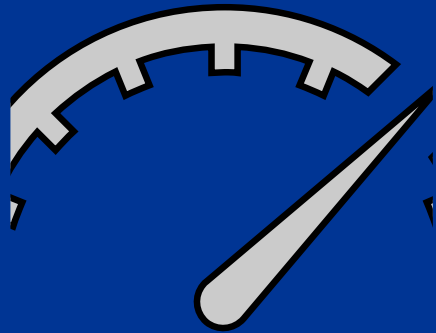
That means if 85 percent of drivers on a section of road are driving 55 mph or less, the 85<sup>th</sup> percentile speed would be 55.

Michigan uses this methodology because it is the national standard for setting speed limits.

[www.michigan.gov/mdot/travel/safety/road-users/speed-limits](http://www.michigan.gov/mdot/travel/safety/road-users/speed-limits)

# 2022 Speeding/Aggressive Driving

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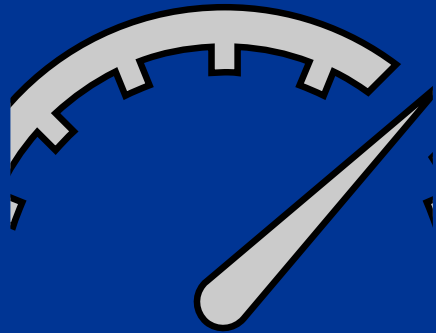
Of the **490,560 drivers** involved in crashes, **26,996** had a hazardous action of “Speed too Fast.”

**Single motor vehicle crashes** were the **most common crash** type associated with speed-involved crashes.



# 2022 Speeding/Aggressive Driving

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Excessive speed was a factor in:

- 223 fatalities in crashes
- 880 suspected serious injuries

“Speed too Slow” was also reported as a hazardous action for 116 crashes.

# Michigan's Hands-Free Driving Law

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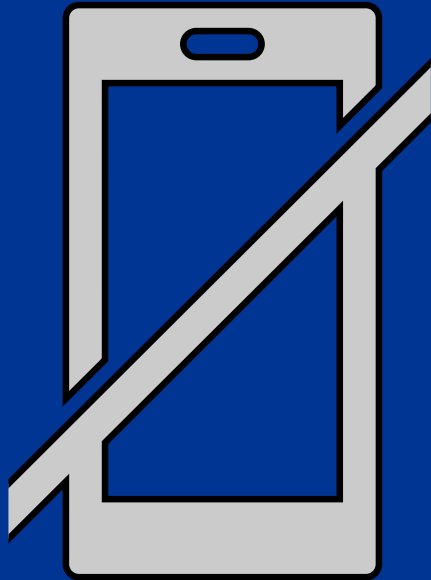
Went into effect June 30, 2023

Illegal to manually use a cell phone or other mobile electronic device while operating a vehicle on Michigan roads.

A driver cannot hold or support a phone or other device with any part of their hands, arms, or shoulders.

# 2022 Cell Phones & Crashes

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A total of **2,380** crashes occurred where a motor vehicle driver was using a cell phone.

- **8** of those crashes involved a fatality
- **3 pedestrians** and **5 bicyclists** were reported to be using cell phones
- **3** of those pedestrians were killed

# Cell Phones / Distracted Driving

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Of the 2,382 motor vehicle drivers using cell phones, **441 (18.5%) were 20 years of age or younger.**

# 2022 Distracted-Driving Crashes

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Driver distraction includes any activity that shifts attention from the driving task:

- Talking, texting, videoing on a cell phone
- Talking to passengers
- Eating and drinking
- Adjusting the radio or GPS
- Adjusting hair, make-up

# 2022 Distracted Driving Crashes

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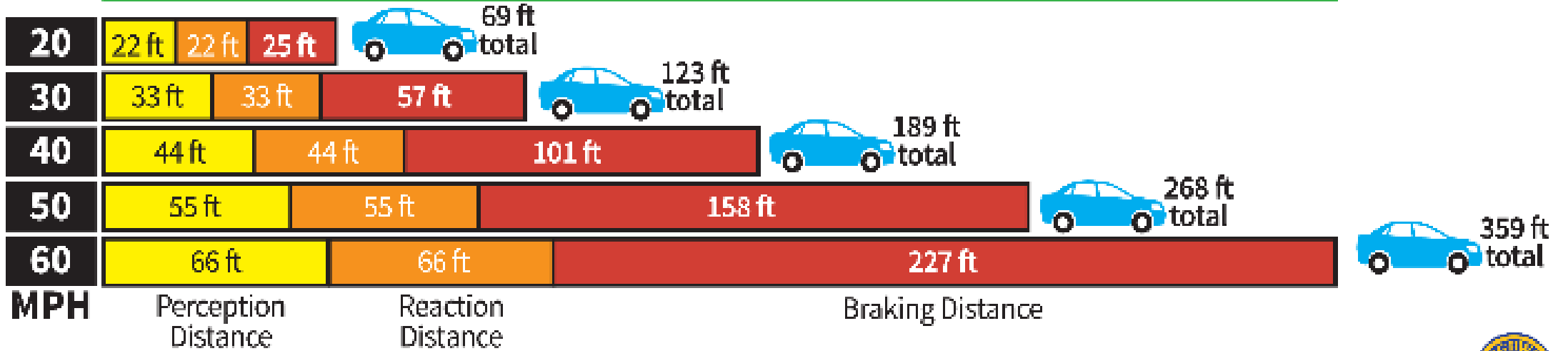
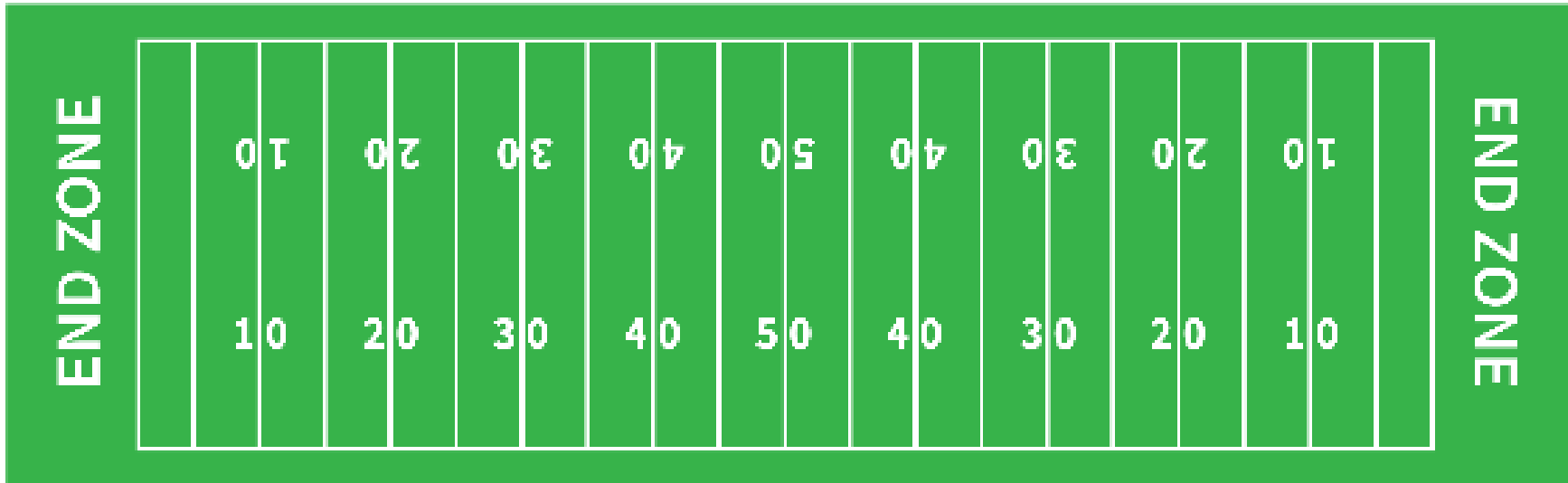


**22.7 percent** of distracted driving/cell phone use crashes involved a lane departure.

**35.6 percent** of distracted driving/cell phone use crashes took place at an intersection.

**48.2 percent** of distracted driving/cell phone use crashes were rear-end crashes.

360 ft

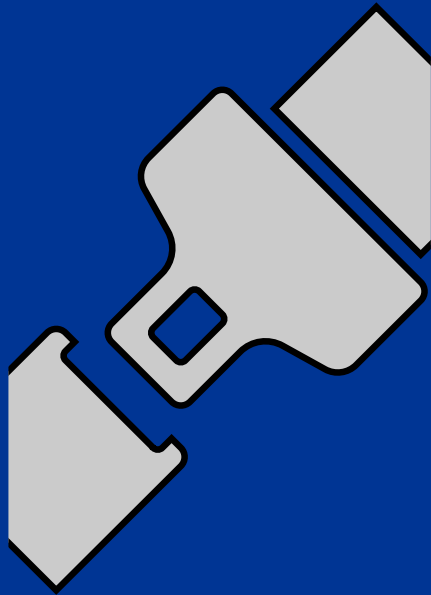


**FLHSMV**



# 2022 Failure to Use Restraint(s)

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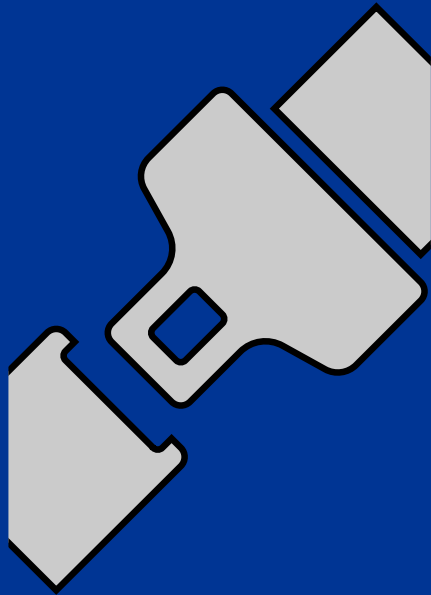
Seat belt use by motorists is measured two ways:

- what motorists **report** to police at the scene of a traffic crash (reported usage)
- **observation surveys**, where motorists are unaware of the presence of researchers (observed usage)



# 2022 Failure to Use Restraint(s)

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Of the **480,362** reported **drivers and passengers involved in crashes** when seat belt use was known:

- **473,195 (98.5%)** reported **they were using** restraints at the time of the crash
- **7,167** reported **they were not using** seat belts at the time of the crash

# Michigan Seat Belt Law

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Michigan has a primary seat belt law, which means **law enforcement can stop and ticket motorists** solely for not being buckled up.

## The law requires:

Passengers 8-15 years of age to buckle up in all seating positions.

Drivers and front-seat passengers are to be buckled up.

# Michigan Seat Belt Law

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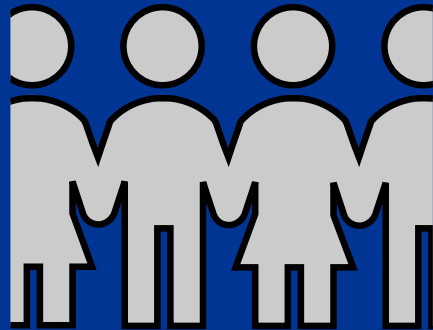
Michigan's child passenger safety law requires:

Children **younger than age 4 to ride in a car seat in the rear seat if the vehicle has a rear seat**. If all available rear seats are occupied by children under 4, then a child under 4 may ride in a car seat in the front seat. A child in a rear-facing car seat may only ride in the front seat if the airbag is turned off.

Children are to be properly buckled in a **car seat or booster seat until they are 8 years old or 4 feet 9 inches tall**. Children must ride in a seat until they reach the age requirement or the height requirement, whichever comes first.

# Children & 2022 Michigan Crash Data

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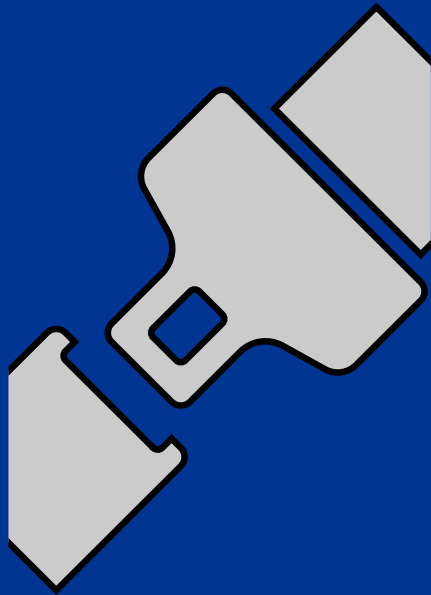


A total of **27,560** people aged 0-14 were involved in crashes in 2022.

- **4,112 children injured** in crashes
- **26 children were killed** in crashes
- **Restraint usage** among drivers and injured passengers aged 0-14, as reported by police at the scene of a traffic crash, **was 90.2 percent**
- The age group with the **LOWEST** restraint usage among children **aged 11 – 14 (87.2 percent)**

# 2022 Failure to Use Restraint(s)

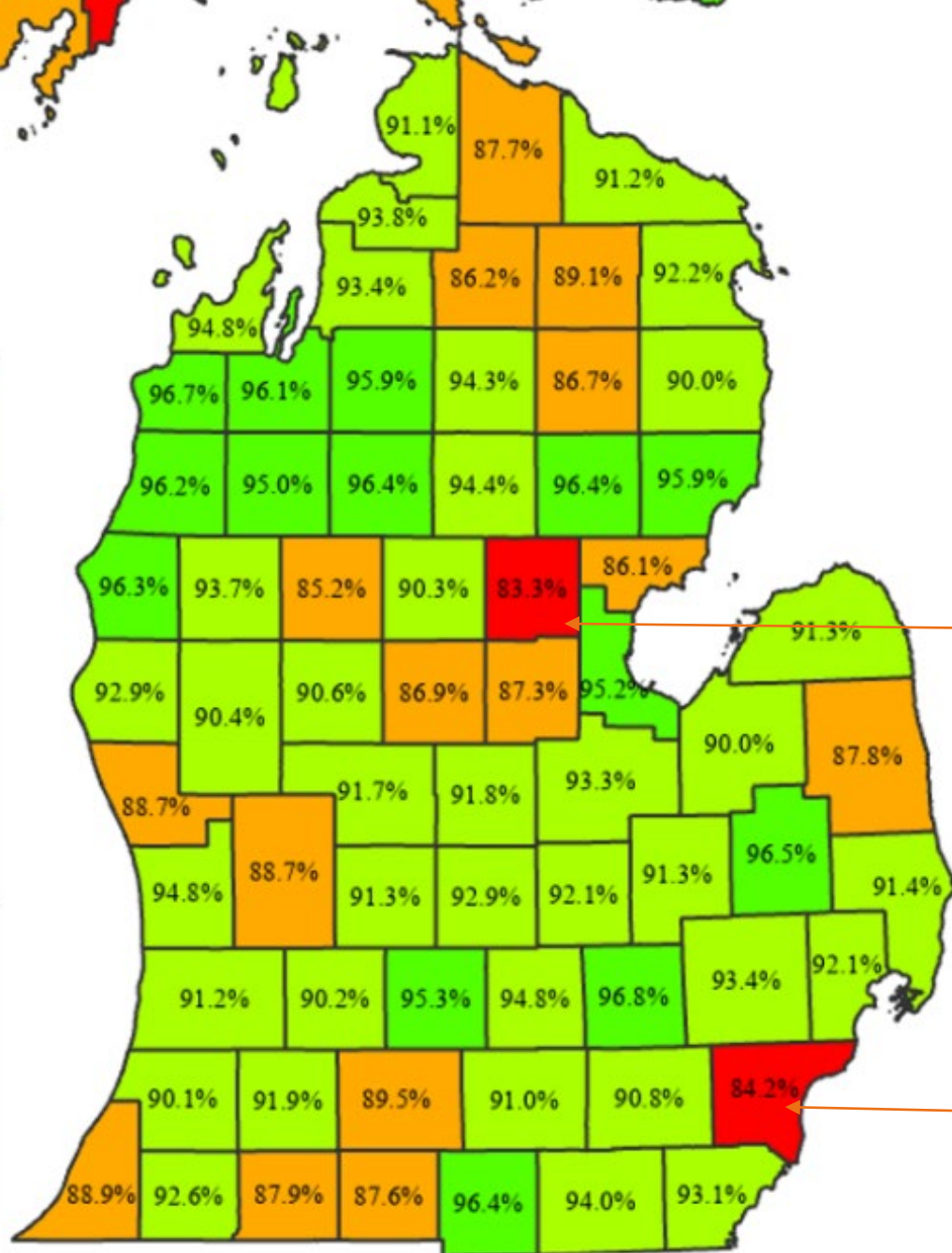
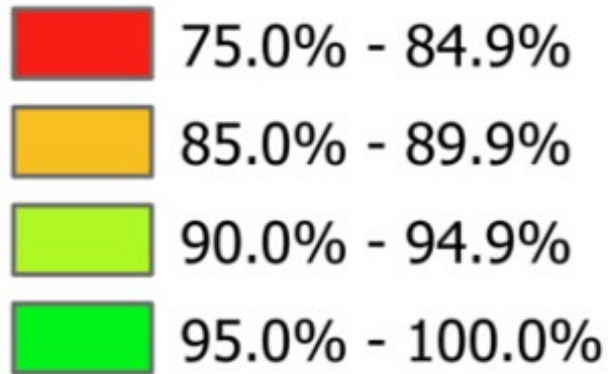
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A total of **317** people in motor vehicle crashes were **ejected** because they **were not wearing** a seat belt. Of those:

- **207** were drivers
- **109** were injured passengers
- **1** was an uninjured passengers
- **70** people ejected were killed

## Statewide Safety Belt Use Rate = 92.4%

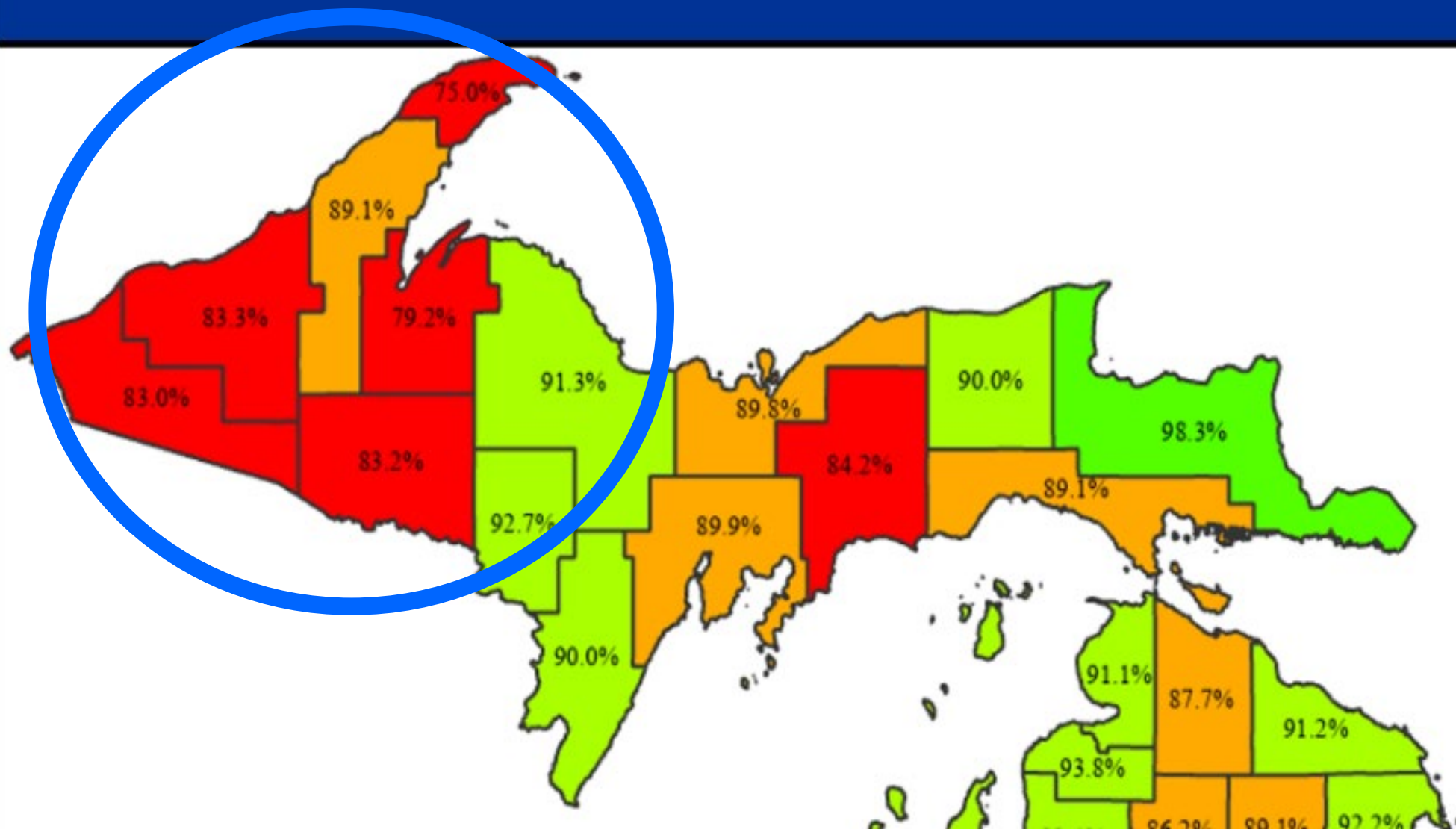


83.3%

Gladwin

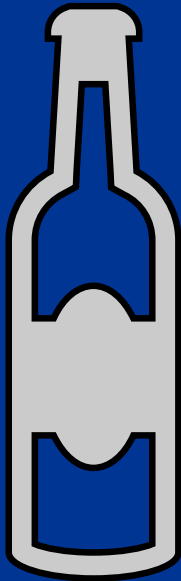
84.2%

# 2023 Michigan Safety Belt Use Rate by County



# 2022 Alcohol-Impaired Crashes

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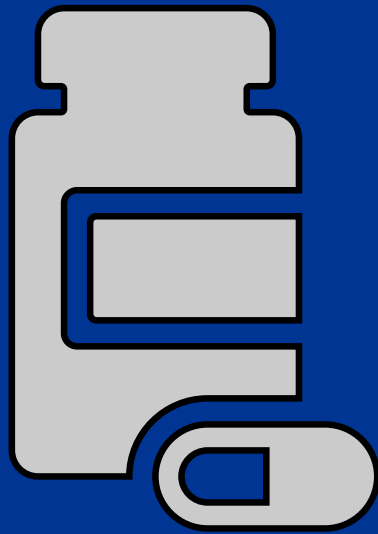
Any driver, pedestrian, or cyclist involved in the crash reported as “had-been-drinking (HBD)” by the police officer.





# 2022 Drug-Impaired Crashes

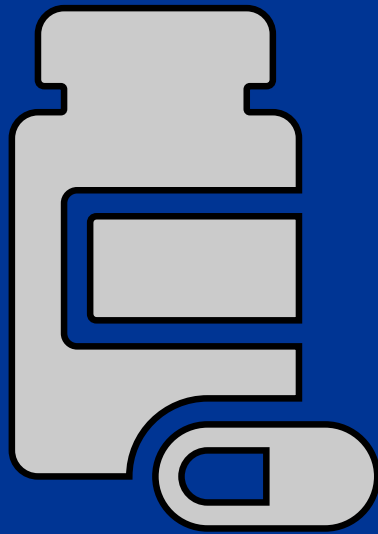
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A crash is drug-involved if any driver, pedestrian, or cyclist involved was reported as suspected of drug use by the police officer on the Traffic Crash Report.

# 2022 Drug-Impaired Driving

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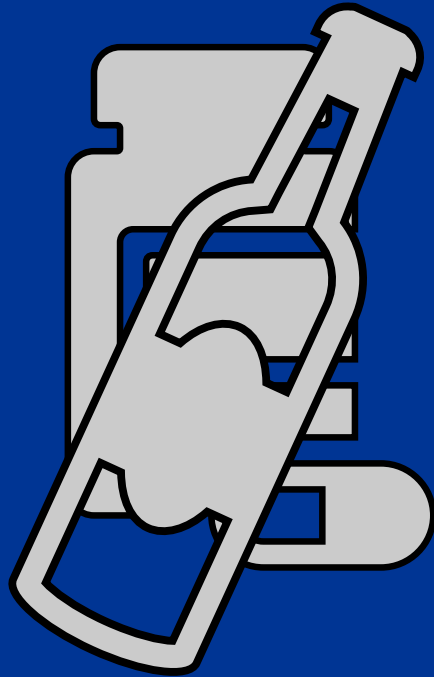


## What They're Using Now

Nitrous Oxide	Alprazolam
THC and Alcohol & THC	Tramadol
Adderall	Trazadone
Cocaine	Meth
Buprenorphine	Computer dust cleaner

# 2022 Alcohol-Drug Impaired Crashes

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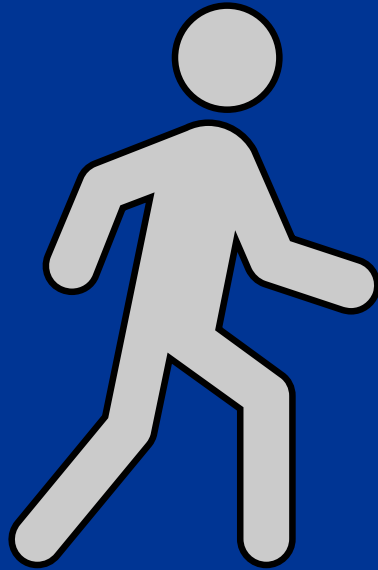


Of the **1,053** fatal crashes that occurred, **229** were drug-involved, with at least **one drugged bicyclist or pedestrian.**

# Michigan's Vulnerable Populations and Traffic Safety

# 2022 Pedestrian Crashes

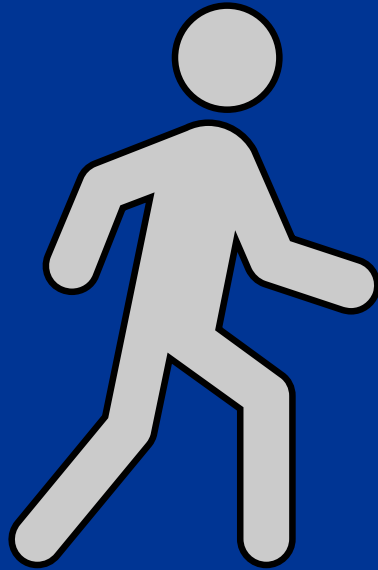
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At least one pedestrian  
in a crash with a motor  
vehicle on a public  
roadway.

# 2022 Pedestrian Crashes

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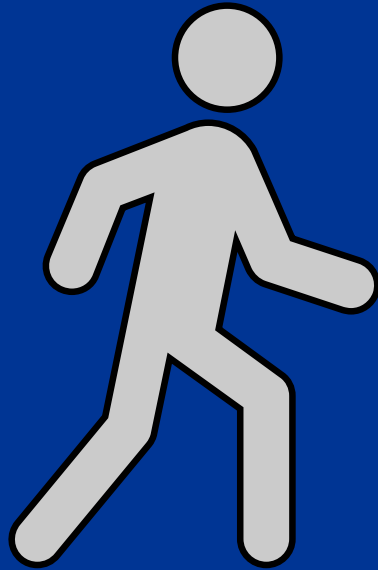


Pedestrians are defined as a person

- On foot
- On skis
- On skates
- On rollerblades
- In a non-motorized wheelchair
- As the rider of a horse or a horse and buggy

# 2022 Pedestrian Crashes

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There were **2,026** pedestrians involved in **1,897** motor vehicle crashes.

There were **173** killed with **1566** injured.

Of the **173** pedestrians killed, **53** of the deaths were the **result of an alcohol-involved crash**, and **34** of those pedestrians had been drinking.



# 2022 Bicyclist Crashes

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There were **1351** bicyclists involved in motor vehicle crashes in Michigan in 2022.

- **36** bicyclists were killed in **35** fatal crashes.
  - **6** were the result of a **had-been-drinking crash**
  - **2** of the bicyclists **had been drinking**

An additional **1030** bicyclists were injured in **1,024** police-reported crashes.

# MICHIGAN LAW



**PASS SAFE, SAVE LIVES**

# Michigan Bicycling Law

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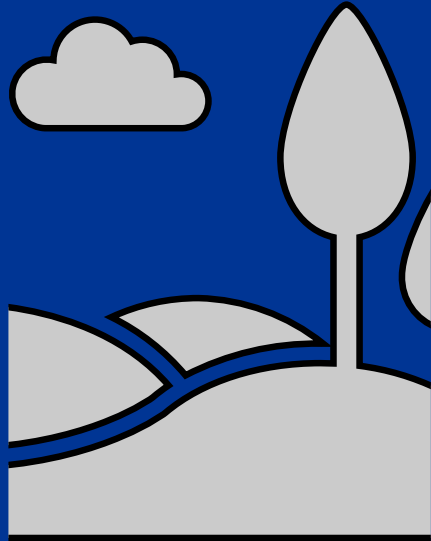
On June 29, 2018, Governor Snyder signed into law PA 279 and 280 that require motorists to give three feet of space as they pass bicyclists on the roadways.

Most drivers completely misjudge how far three feet is from their vehicle to the cyclist.

It begins with the widest part of the bicyclist that “sticks out” while on the bike, which is usually the handlebars, and goes to the widest part of the vehicle, which is typically a side view mirror.

# Let's Think About...

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Think about people who make up your community's vulnerable population of road users.

Do these people have to:

- walk or roll on the road because there are no sidewalks?
- use their wheelchairs on the road because curbs are barriers?
- rely on walking, cycling, or using a buggy because there is no other means of transportation?
- run or cycle on the road because there is no shoulder?

Can you identify areas of high risk to these road users to determine what safety improvements could mitigate their safety risks?

# University of Michigan Transportation Research Institute

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Annual Official  
Michigan  
Crash Data

The logo for Michigan Traffic Crash Facts (MTCF). It features the letters 'MTCF' in a large, bold, white, sans-serif font at the top. Below it, the words 'Michigan Traffic' and 'Crash Facts' are written in a smaller, white, sans-serif font, stacked on two lines.

**MTCF**  
Michigan Traffic  
Crash Facts

<https://www.michigantrafficcrashfacts.org/>



What's My BIG Ask of You?

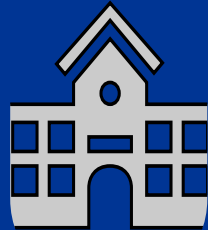
# Traffic Safety Partners in Your Community

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## You Are Here!

Local businesses, faith-based organizations & various agencies in your county/district



K -12 schools, colleges & universities, student groups in your communities

Local law enforcement



Healthcare providers, local insurance agents, small & large businesses



# Join a Traffic Safety Network Group

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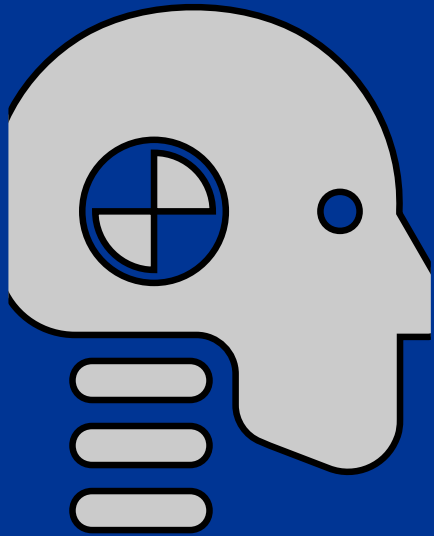


- A TSN is a regional committee that focuses on traffic safety issues in its region.
- All TSNs should be made up of a variety of members from the region, not solely law enforcement or government agencies.
- TSNs usually have quarterly meetings – with food.
- Opportunities to network with other professionals interested in reducing serious injuries and fatalities as the result of crashes.



# Partner With OHSP

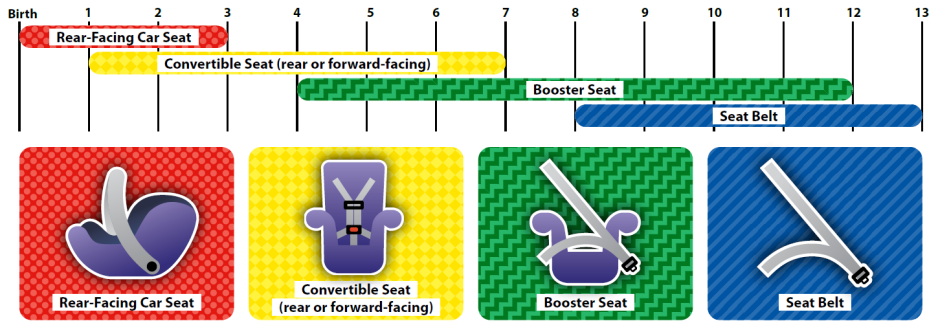
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Visit the OHSP Online Catalog to order **FREE** traffic safety educational materials!

<https://www.michigan.gov/ohspcatalog>

## How to Choose the Right Car Seat



### Rural Road Safety

19% of Americans live in rural areas

but make up 45% of traffic crash fatalities

### START SEEING MOTORCYCLISTS

### Kelsey's Law

Put your phone in your pocket.

IT'S THE LAW.

text back L&R

Under 21?

### Be a Safe Cyclist

### Drunk driving is a costly crime.

### المشي بأمان وسلامة

ينبغي على المشاة التقيد بهذه التصاح المعينة بسلامتهم ليتفادوا إصاباتهم بإصابات خطيرة أو الوفاة.

**يجب على المشاة:**

- أن يستخدموا أرفصة المشاة كلما كان ذلك ممكناً.
- أن يتقيدوا بتعليمات إشارات المرور الكهربائية وإشارات المرور والخطوط المعلمة على أرض عبور المشاة.
- أن يصبوا الشوارع عند زاوية تقاطعها والتقيد بإشارات المرور والصور من الممرات المخصصة للمشاة كلما كان ذلك ممكناً.
- وإذا لم الأثر المشي بمحاذاة الطريق في حال عدم وجود رصيف للمشاة، فيجب المشي على الجانب الأيسر من الطريق مواجهين حركة مرور المركبات القادمة نحوهم متبهدين عنها بأثر قدر ممكن.

**ينبغي على المشاة:**

- أن يحرسوا دائماً على التوقف عند حافة سيارة واقفة أو الشارع أو المركبة قبل التروع في دخول حركة مرور السيارات.
- أن يحرسوا دائماً على الانكشاف بصباً وبنساراً قبل عبور الشارع ومواصلة توجيه النظر بصباً وبنساراً أثناء عبورهم للشارع.
- أن يحرسوا على توجيه نظركم إلى وجوه سائقي المركبات ليعلموا بوجودهم قبل التروع في عبور الشارع.
- أن يكونوا مرتبين لابسين الأخرين، ابتداء ملابس مصنوعة من أقمشة عاكسة للنور وحمل مصابيح ضوئية أثناء الليل وابتداء ملابس ساطعة الألوان أثناء النهار.
- ألا يسمخوا أيضاً للأولاد دون سن العاشرة عبور الشوارع لوحدهم. لا يمنع الأولاد الصغار بالمهارات اللازمة ليدركوا بدقة مخاطر المرور وعبور الشوارع.

لاطلاع على قوانين الولاية السارية المتفعل المعينة بسلامة المشاة، تفضلوا زيارة موقع [www.michigan.gov/walksafe](http://www.michigan.gov/walksafe) الإلكتروني على العنوان التالي.

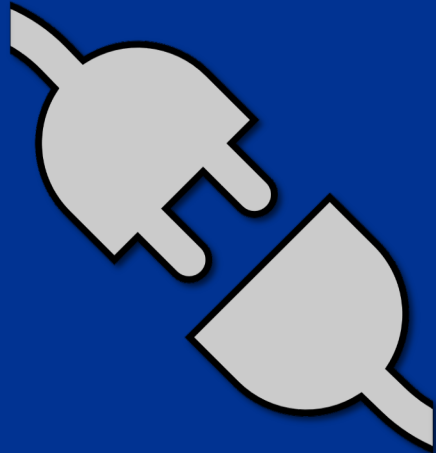
الطريق للجميع

### EVERYBODY'S ROAD EVERYBODY'S RULES

تسري القواعد على الجميع

# Connect With OHSP

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## Connect with the OHSP



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[www.twitter.com/miohsp](http://www.twitter.com/miohsp)



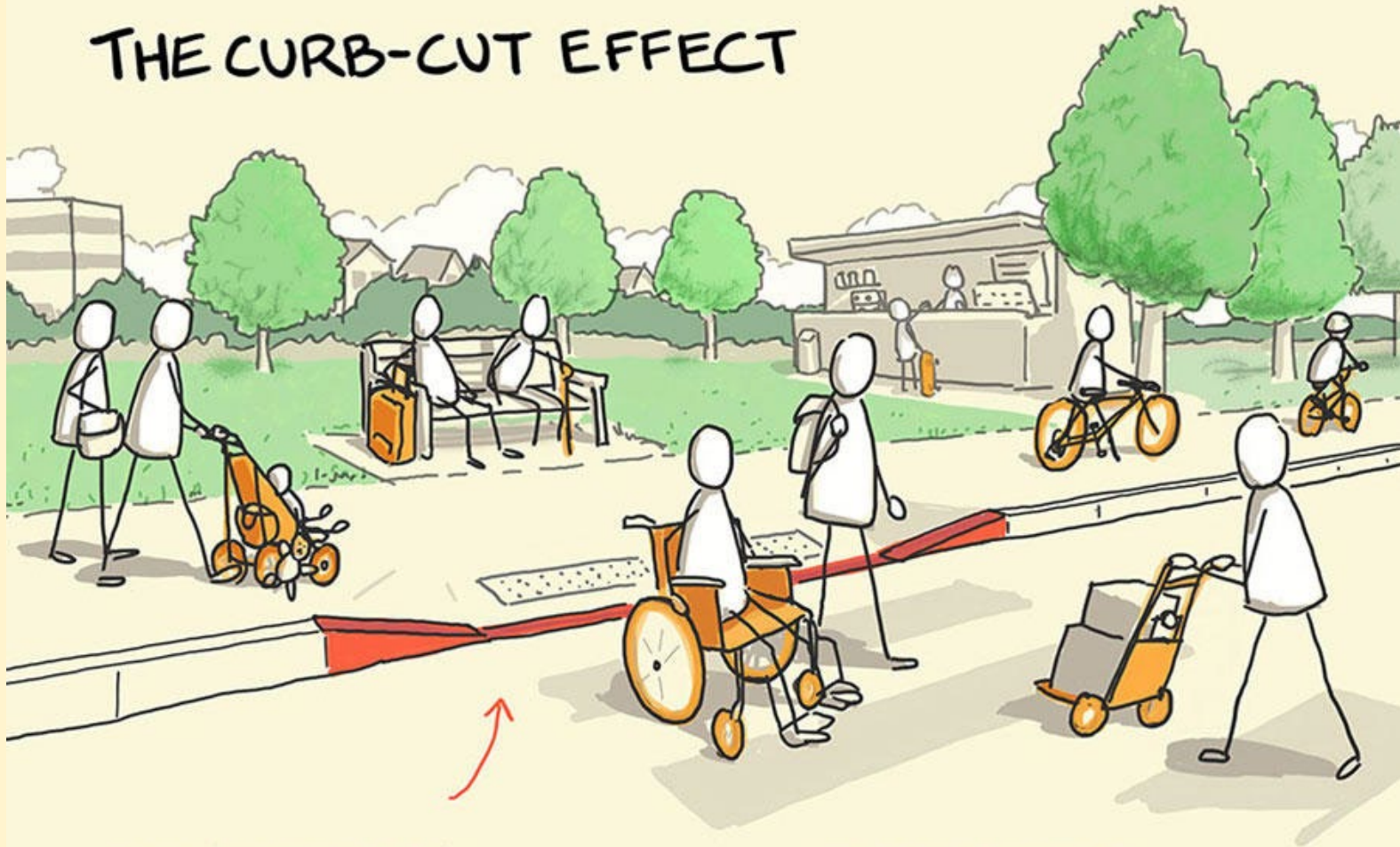
[www.youtube.com/ohsp](http://www.youtube.com/ohsp)



[www.michigan.gov/ohsp](http://www.michigan.gov/ohsp)



# THE CURB-CUT EFFECT



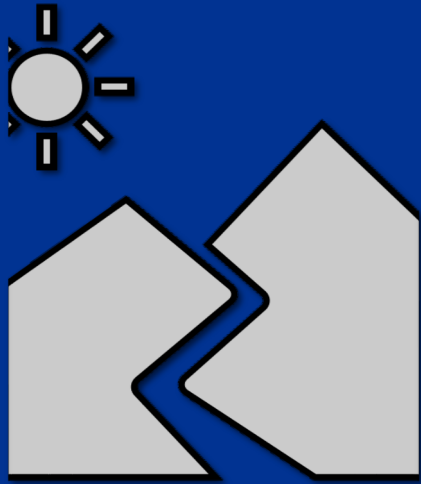
WHEN WE DESIGN  
FOR DISABILITIES

... WE MAKE THINGS  
BETTER FOR EVERYONE

sketchplanations

# Thank You

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Thank you for your attention and for becoming a new traffic safety partner.

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