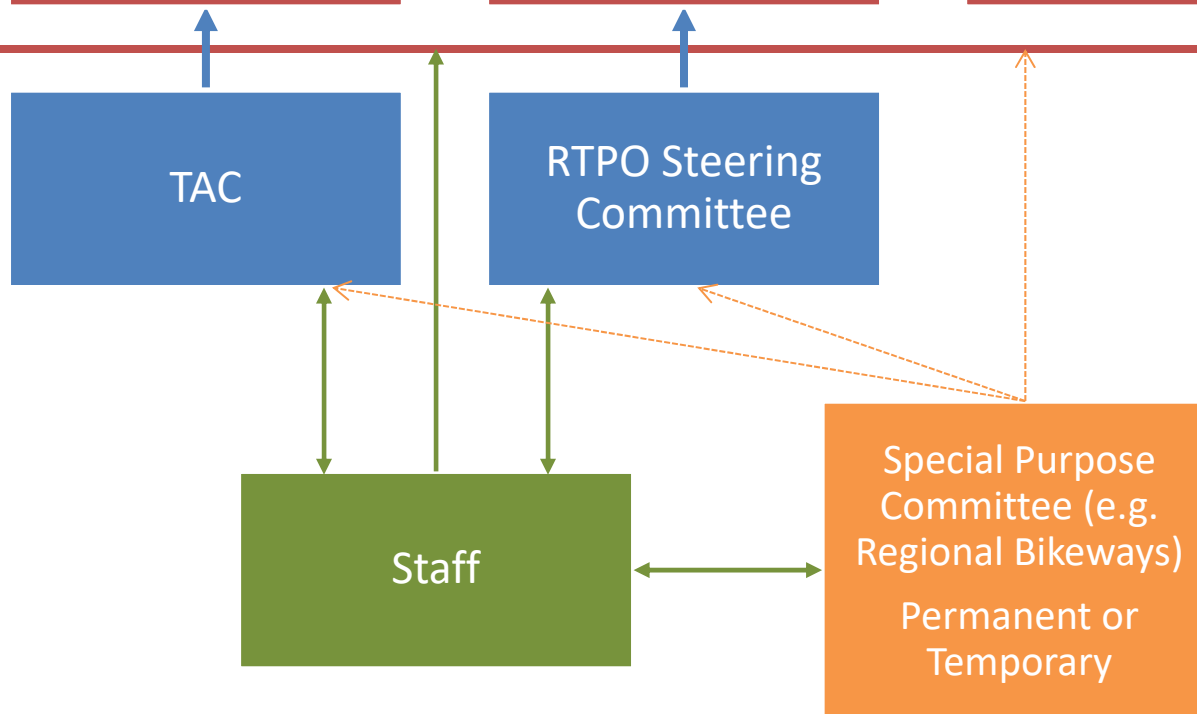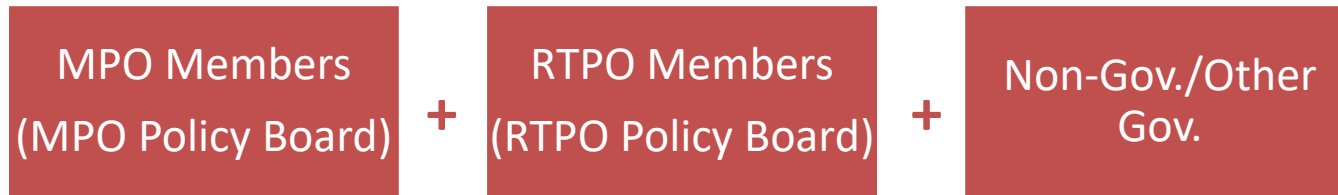# RTPO Steering Committee Workshop
Transportation System and Crash Analysis
October 19

MVRPC Board Structure

Miami Valley Regional Planning Commission

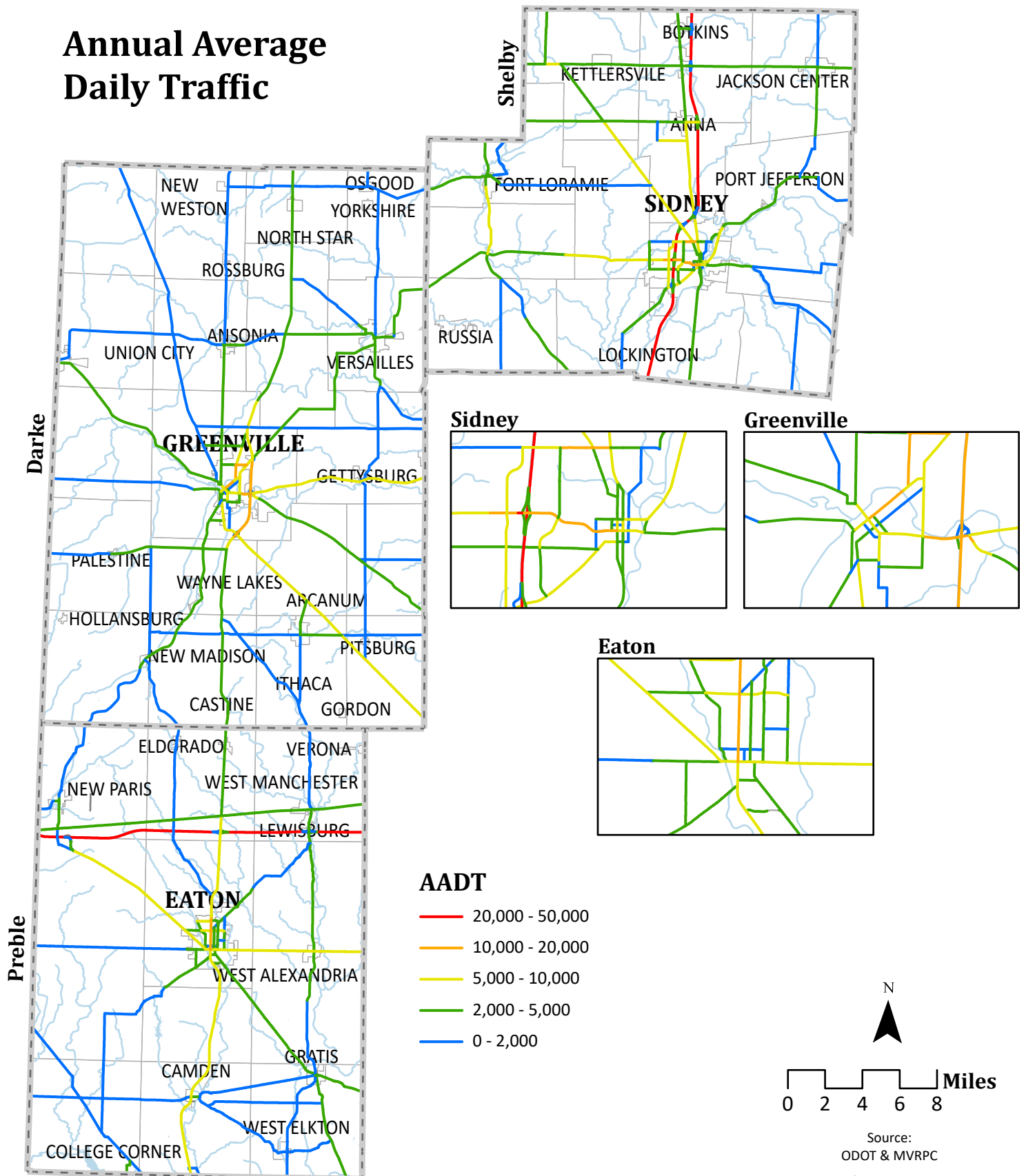| MPO Members (MPO Policy Board)	+	RTPO Members (RTPO Policy Board)	+	Non-Gov./Other Gov.

TAC

RTPO Steering Committee

Staff

Special Purpose Committee (e.g. Regional Bikeways)

Permanent or Temporary

Transportation System

Multimodal Facilities

Shelby

BOTKINS

KETTLERSVILE   JACKSON CENTER

ANNA

FORT LORAMIE   PORT JEFFERSON

SIDNEY

RUSSIA

LOCKINGTON

Darke

NEW WESTON   OSGOOD   YORKSHIRE

NORTH STAR

ROSSBURG

ANSONIA

UNION CITY   VERSAILLES

GREENVILLE

GETTYSBURG

PALESTINE

WAYNE LAKES   ARCANUM

HOLLANSBURG

NEW MADISON   PITSBURG

ITHACA

CASTINE   GORDON

ELDORADO   VERONA

NEW PARIS   WEST MANCHESTER

LEWISBURG

Preble

EATON

WEST ALEXANDRIA

GRATIS

CAMDEN

WEST ELKTON

COLLEGE CORNER

Sidney

Greenville

Eaton

Multimodal Facilities

────── Major Roads

─+─+─ Railroad

────── Regional Bikeway

✈ Darke County Airport

✈ Sidney Municipal Airport

N

Miles
0 2 4 6 8

Source:
ODOT & MVRPC

August 2022

Highway
Functional Class

MVRPC

Shelby

SIDNEY

Darke

GREENVILLE

Preble

EATON

Sidney

Greenville

Eaton

Functional Class

━━━ Principal Arterial - Interstate

━━━ Principal Arterial - Freeway and Expressway

━━━ Principal Arterial - Other

━━━ Minor Arterial

━━━ Collector - Major

━━━ Collector - Minor

▨ Transportation Urbanized Area

N

Miles

0 2 4 6 8

Source:
ODOT & MVRPC

August 2022

MVRPC

Annual Average Daily Traffic

Shelby

BOTKINS
KETTLERSVILE
JACKSON CENTER
ANNA
FORT LORAMIE
PORT JEFFERSON
SIDNEY
RUSSIA
LOCKINGTON

Darke

NEW WESTON
OSGOOD
YORKSHIRE
NORTH STAR
ROSSBURG
ANSONIA
UNION CITY
VERSAILLES
GREENVILLE
GETTYSBURG
PALESTINE
WAYNE LAKES
ARCANUM
HOLLANSBURG
NEW MADISON
PITSBURG
ITHACA
CASTINE
GORDON

Sidney

Greenville

Eaton

Preble

ELDORADO
VERONA
NEW PARIS
WEST MANCHESTER
LEWISBURG
EATON
WEST ALEXANDRIA
GRATIS
CAMDEN
WEST ELKTON
COLLEGE CORNER

AADT

■	20,000 - 50,000
■	10,000 - 20,000
■	5,000 - 10,000
■	2,000 - 5,000
■	0 - 2,000

N

Miles
0   2   4   6   8

Source:
ODOT & MVRPC

August 2022

Truck Percentage

MVRPC

Shelby

Darke

Preble

BOTKINS
KETTLERSVILE
JACKSON CENTER
ANNA
FORT LORAMIE
PORT JEFFERSON
SIDNEY
RUSSIA
LOCKINGTON

NEW
WESTON
OSGOOD
YORKSHIRE
NORTH STAR
ROSSBURG
ANSONIA
UNION CITY
VERSAILLES
GREENVILLE
GETTYSBURG
PALESTINE
WAYNE LAKES
ARCANUM
HOLLANSBURG
NEW MADISON
PITSBURG
ITHACA
CASTINE
GORDON
ELDORADO
VERONA
NEW PARIS
WEST MANCHESTER
LEWISBURG
EATON
WEST ALEXANDRIA
GRATIS
CAMDEN
WEST ELKTON
COLLEGE CORNER

Sidney

Greenville

Eaton

Truck Percentage (%)

⎯⎯	> 40%
⎯⎯	20% - 40%
⎯⎯	10% - 20%
⎯⎯	5% - 10%
⎯⎯	< 5%

N

Miles
0 2 4 6 8

Source:
ODOT & MVRPC

August 2022

Roadway Pavement Condition Rating

Shelby

BOTKINS
KETTLERSVILLE
JACKSON CENTER
ANNA
FORT LORAMIE
PORT JEFFERSON
SIDNEY
RUSSIA
LOCKINGTON

Darke

NEW WESTON
OSGOOD
YORKSHIRE
NORTH STAR
ROSSBURG
ANSONIA
UNION CITY
VERSAILLES
GREENVILLE
GETTYSBURG
PALESTINE
WAYNE LAKES
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HOLLANSBURG
PITSBURG
NEW MADISON
ITHACA
CASTINE
GORDON

Preble

ELDORADO
VERONA
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EATON
WEST ALEXANDRIA
GRATIS
CAMDEN
WEST ELKTON
COLLEGE CORNER

Sidney

Greenville

Eaton

Legend

— < 66
— 66 - 80
— 81 - 90
— > 90

N

0 2 4 6 8 **Miles**

Source:
ODOT & MVRPC

August 2022

Roadway Bridge Conditions

MVRPC

Shelby

BOTKINS
KETTLERSVILE
JACKSON CENTER
ANNA
FORT LORAMIE
PORT JEFFERSON
SIDNEY
RUSSIA
LOCKINGTON

Darke

NEW WESTON
OSGOOD
YORKSHIRE
NORTH STAR
ROSSBURG
ANSONIA
UNION CITY
VERSAILLES
GREENVILLE
GETTYSBURG
PALESTINE
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ARCANUM
HOLLANSBURG
NEW MADISON
PITSBURG
ITHACA
CASTINE
GORDON

Preble

ELDORADO
VERONA
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WEST ALEXANDRIA
GRATIS
CAMDEN
WEST ELKTON
COLLEGE CORNER

Sidney

Greenville

Eaton

General Appraisal Rating

- 0-4
- Percent Legal Load < 100
- 5

N

Miles
0 2 4 6 8

Source:
ODOT & MVRPC

August 2022

Regional Crash Analysis 2019-2021

Goals of Analysis

Monitor Crash Trends

Locate High Crash Locations

Make Roadway Improvements

The Data

Reports

Statewide Database

Ohio Department of Transportation

2019
2020
2021

Crashes reported in DAR,PRE,SHE counties

Geo-locates Crashes

9,726

**crashes reported in the Region
from 2019 through 2021**

7,620
property damage only (PDO)
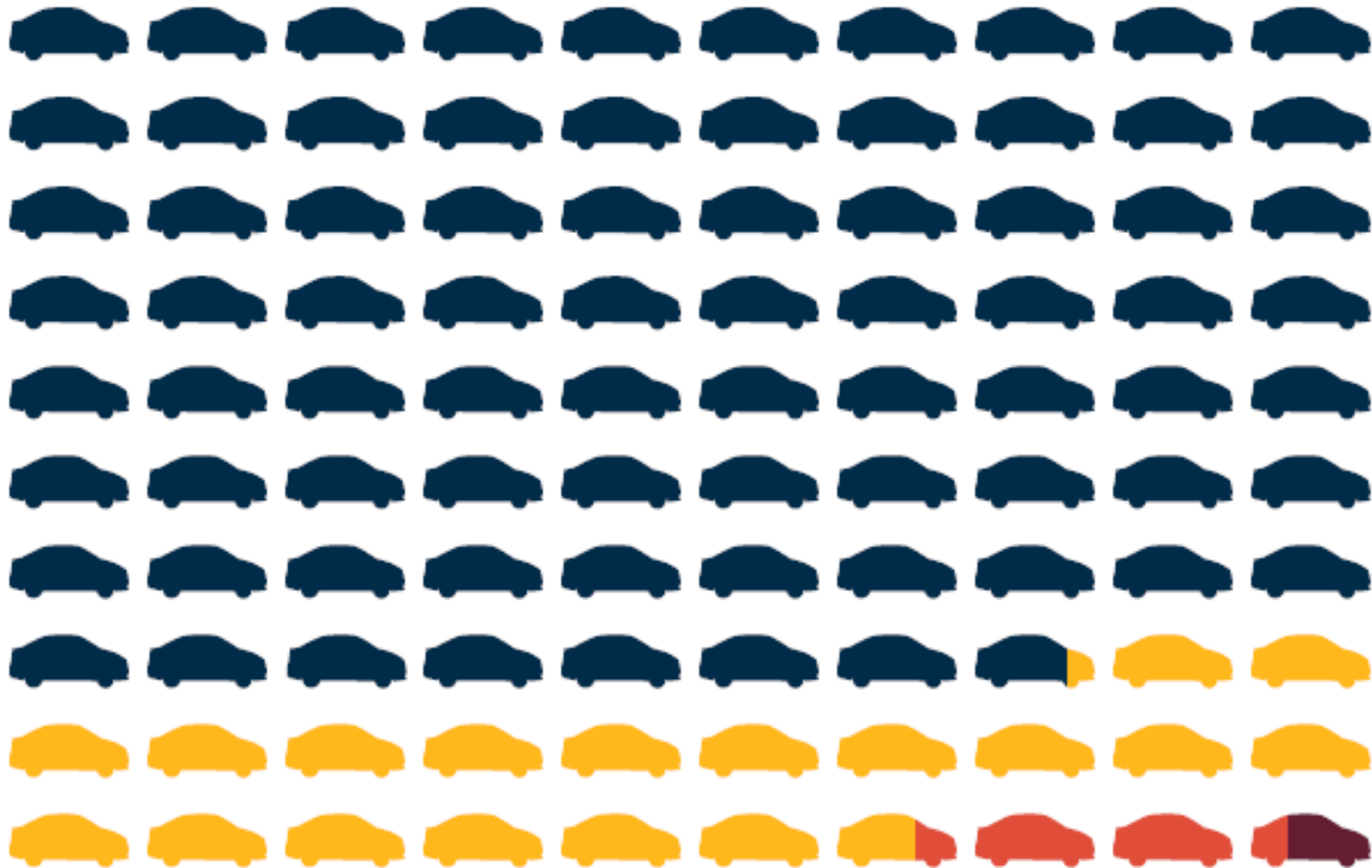
2,039
injury causing crashes

270
serious injury crashes

67
fatal crashes

On average…

every
3 hours
a crash occurred

every
16 days
a fatal crash occurred

Crashes and VMT

3,580

3,175

Crashes (left axis, 3,000–4,000): 2017 ≈ 3,580; 2018 ≈ 3,295; 2019 ≈ 3,485; 2020 ≈ 3,040; 2021 ≈ 3,175

VMT (in millions) (right axis, 3.5–5.5): 2017 ≈ 5.05; 2018 ≈ 4.85; 2019 ≈ 4.75; 2020 ≈ 4.3; 2021 ≈ 4.65

Years: 2017, 2018, 2019, 2020, 2021
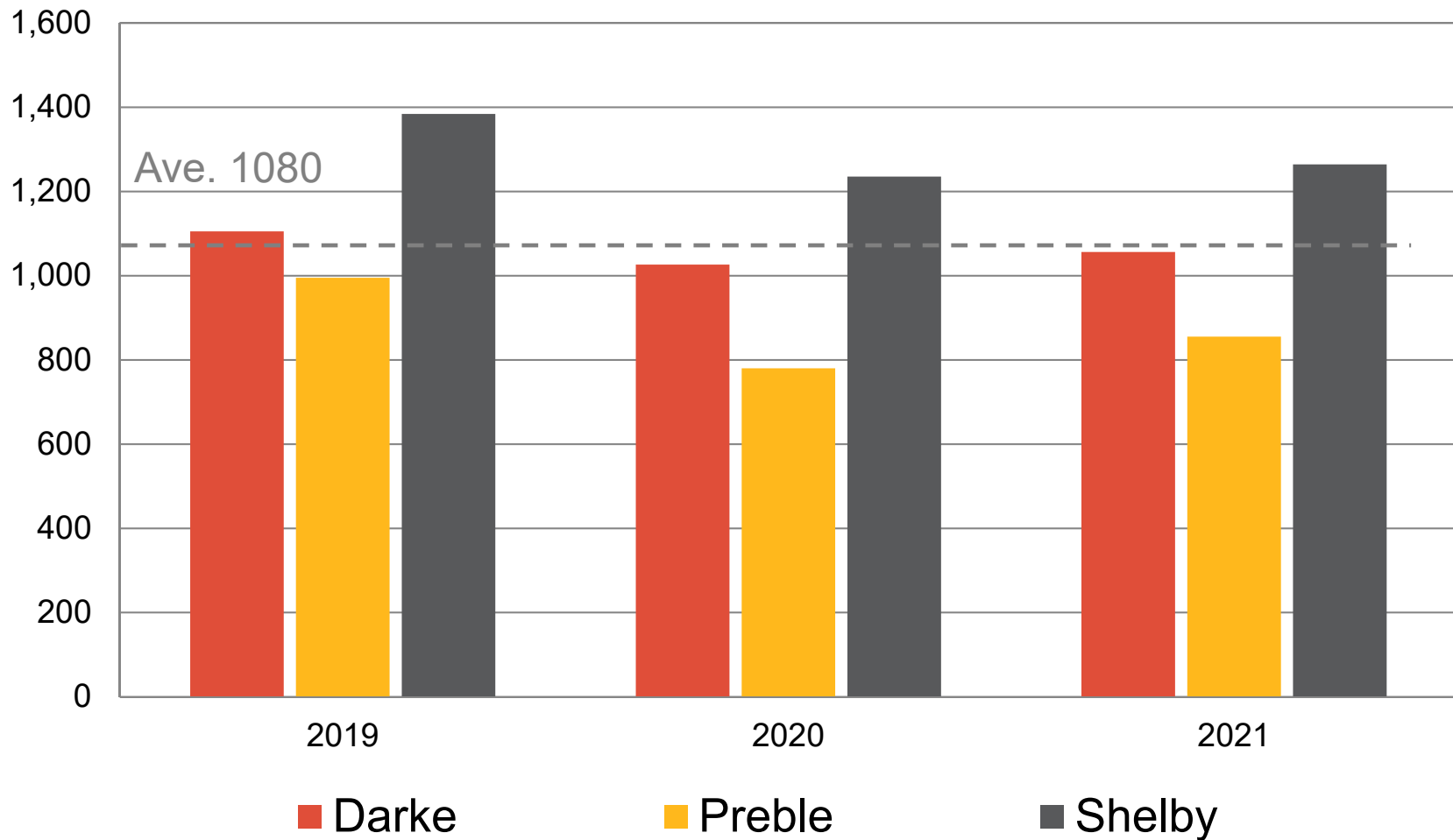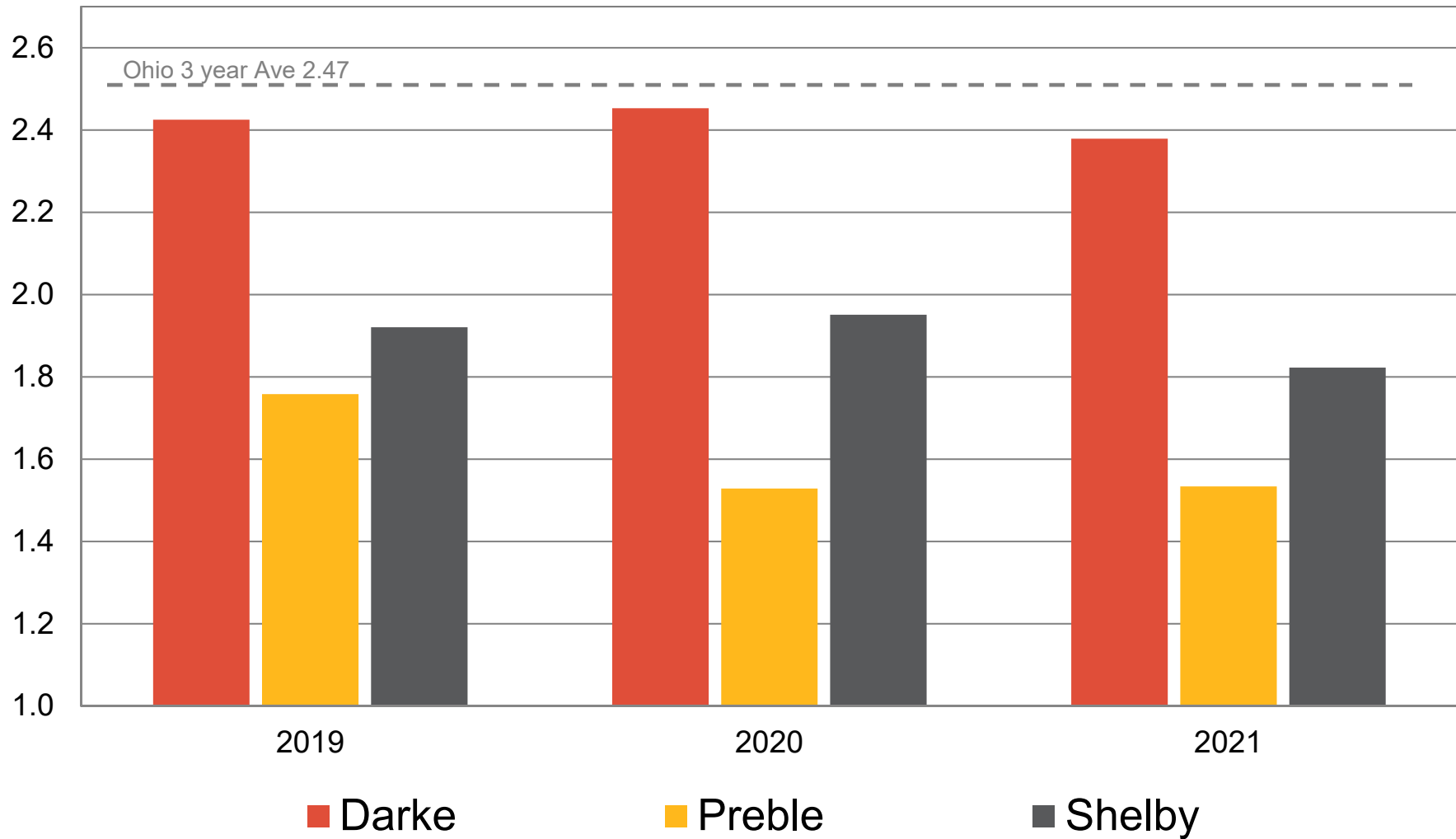
Legend: ▬ Crashes · · · Vehicle Miles Traveled (VMT)

Crash Rate Comparison

Crash Rate (crashes per million vehicle miles traveled)

RTPO — Ohio — National

Types Of Crashes

- Sideswipe-Passing- 9%
- Angle- 11%
- Rear-end- 13%
- Animal- 21%
- Fixed-object- 23%
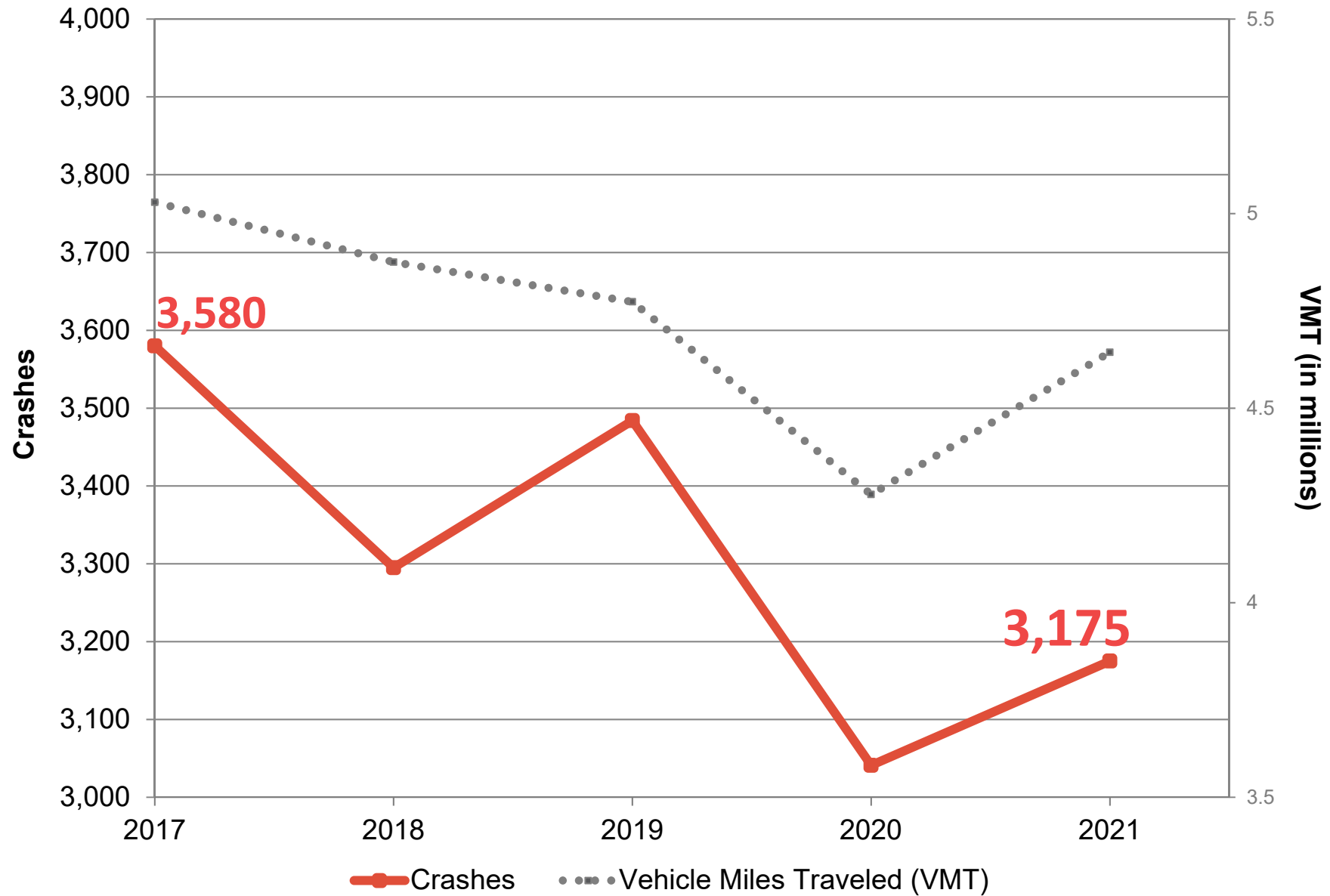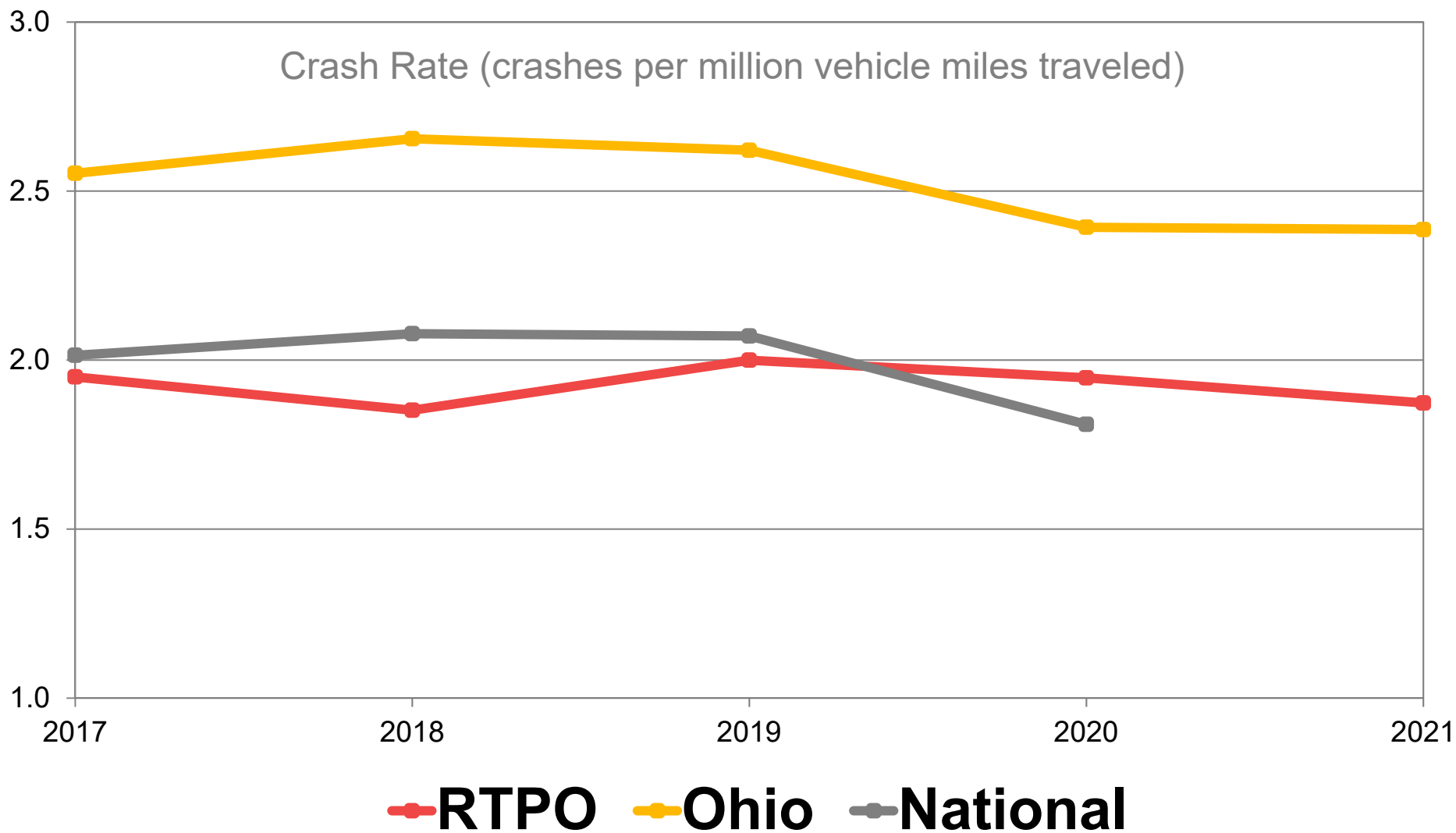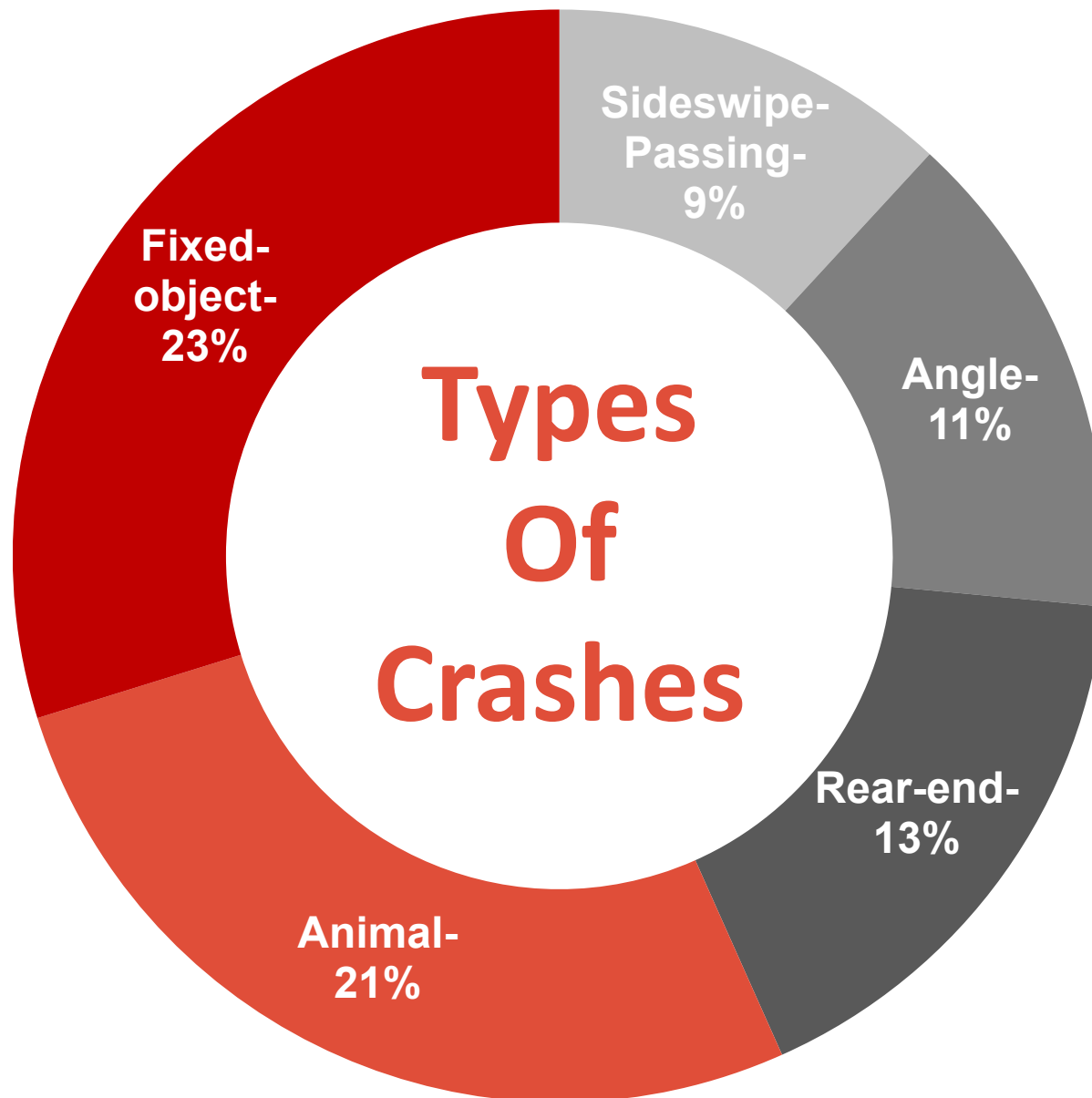
Fixed Object were the most common crash type.

Top Contributing Factors

Horizontal bar chart showing the top contributing factors:
- Drove Off Road: 13%
- Following Too Closely: 11%
- Unsafe Speed: 7%
- Failure to Yield: 3%
- Improper Backing: 1%
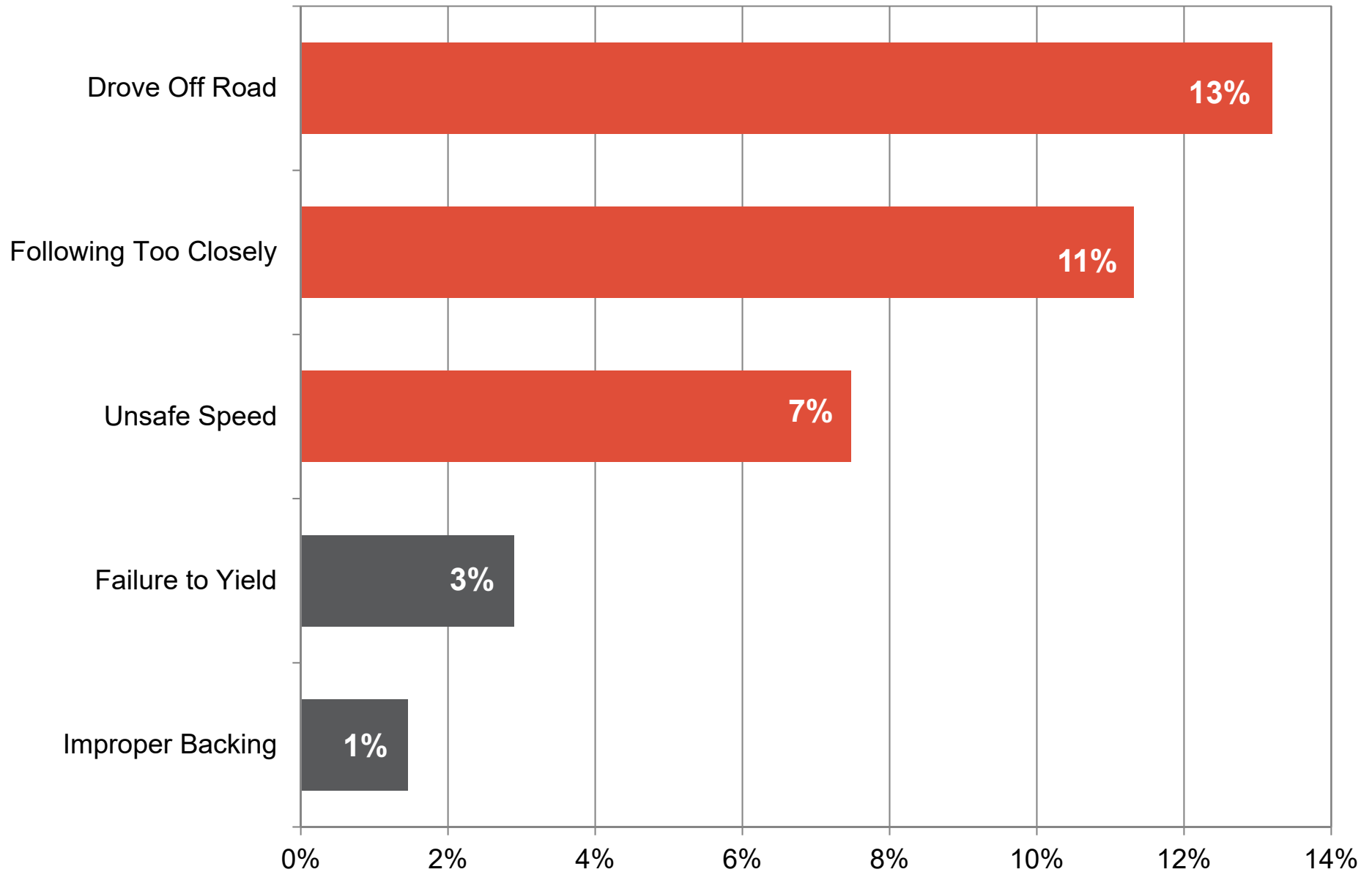
337

Serious Crashes
are crashes that led to an incapacitating injury or fatality.

Serious Crashes by Type

Type	Percentage
Pedestrian	31%
Head On	20%
Overturning	18%
Pedalcycles	6%
Fixed Object	5%
Angle	5%
Left Turn	4%
Other Non-Collision	3%
Rear End	3%
Sideswipe - Passing	2%
Parked Vehicle	1%
Right Turn	1%
Animal	0%
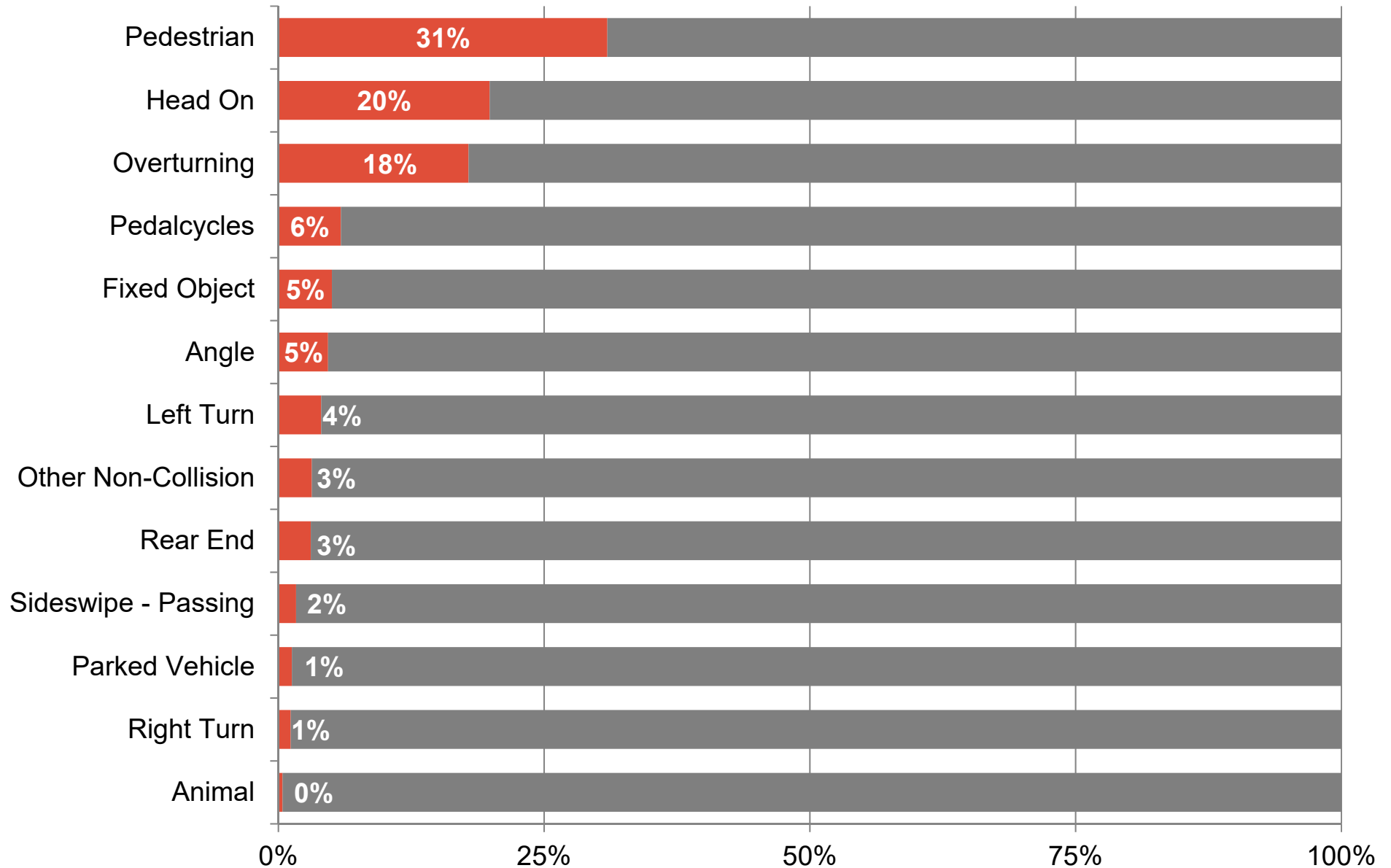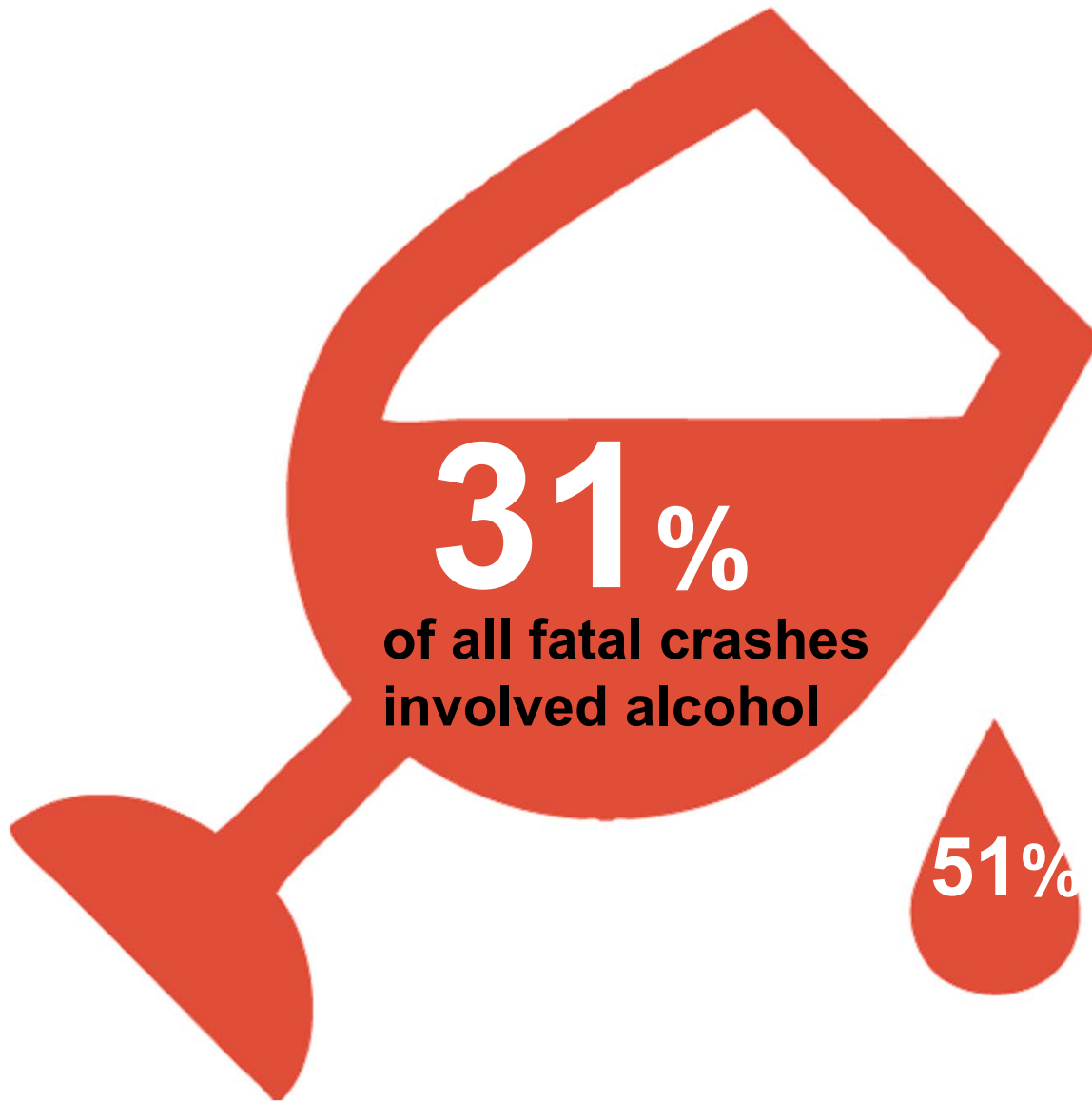
31% of all fatal crashes involved alcohol

\+

51%
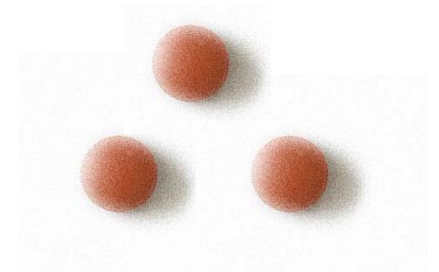
Fatal Crashes involved at least one driver who had been drinking and/or using drugs

Crashes by Driver's Age

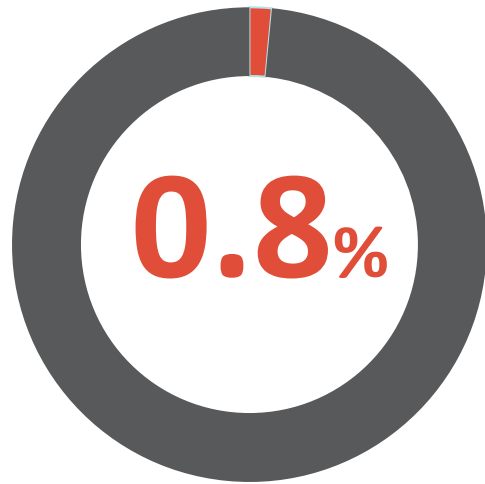**27**% of crashes involved someone **16 to 25 years old.**
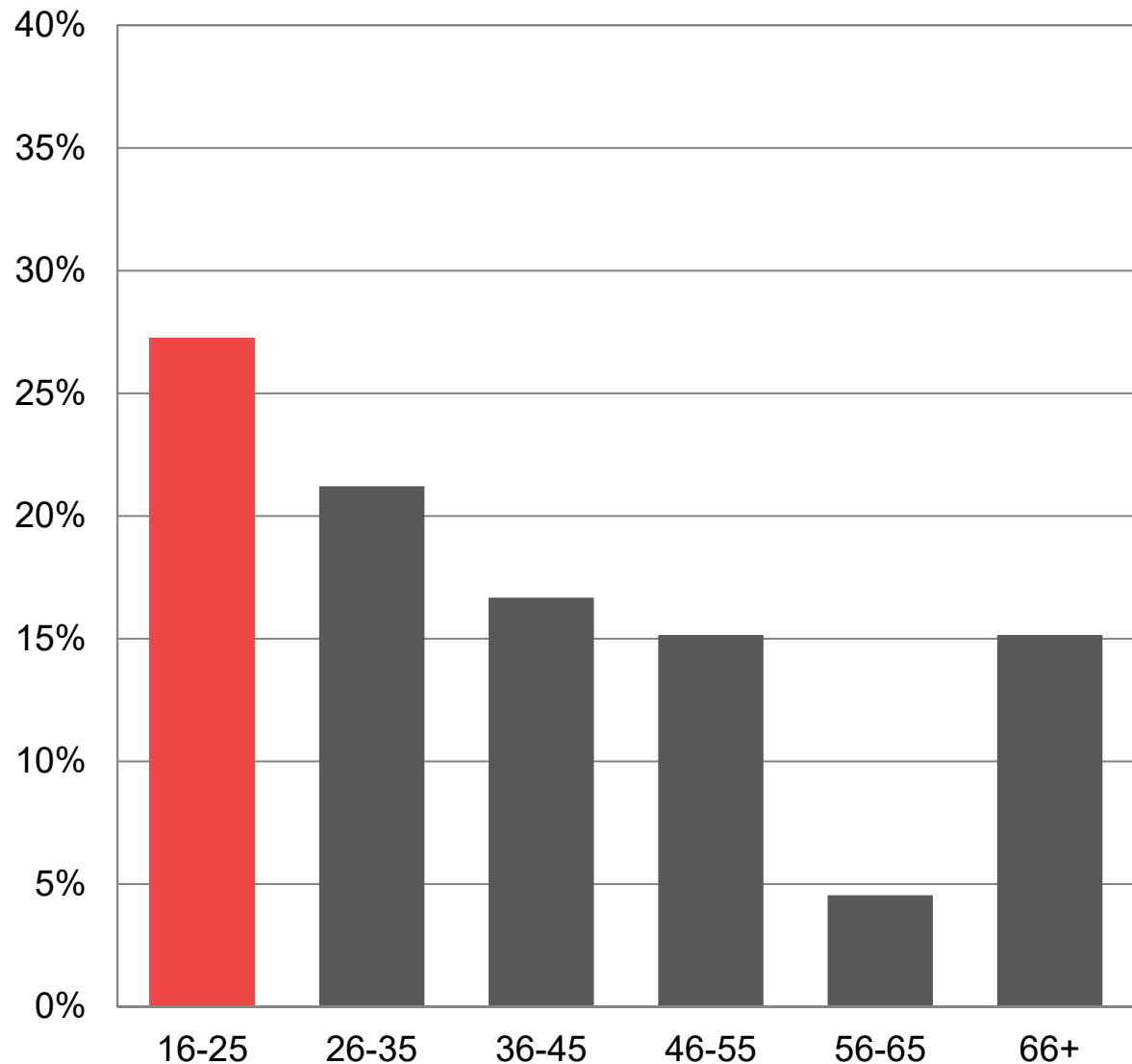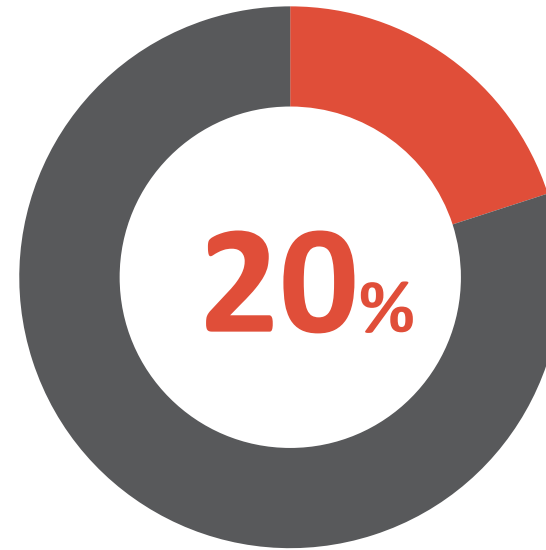
Distracted Driving Crashes

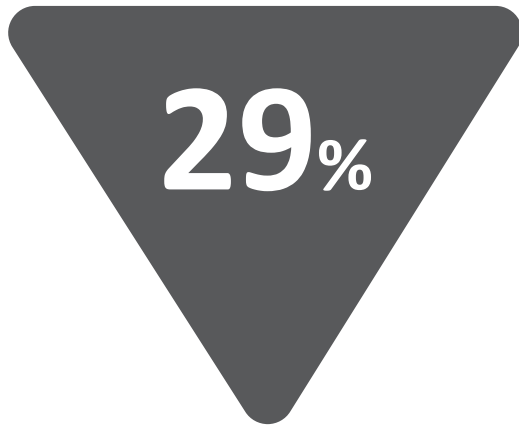**24**% of distractions were a driver/passenger using a phone or texting.

34/29% of distracted driving crashes were rear-end/ fixed object crashes

Age	Percentage
16-25	38%
26-35	~23%
36-45	~13%
46-55	~10%
56-65	~9.5%
66+	~6.5%
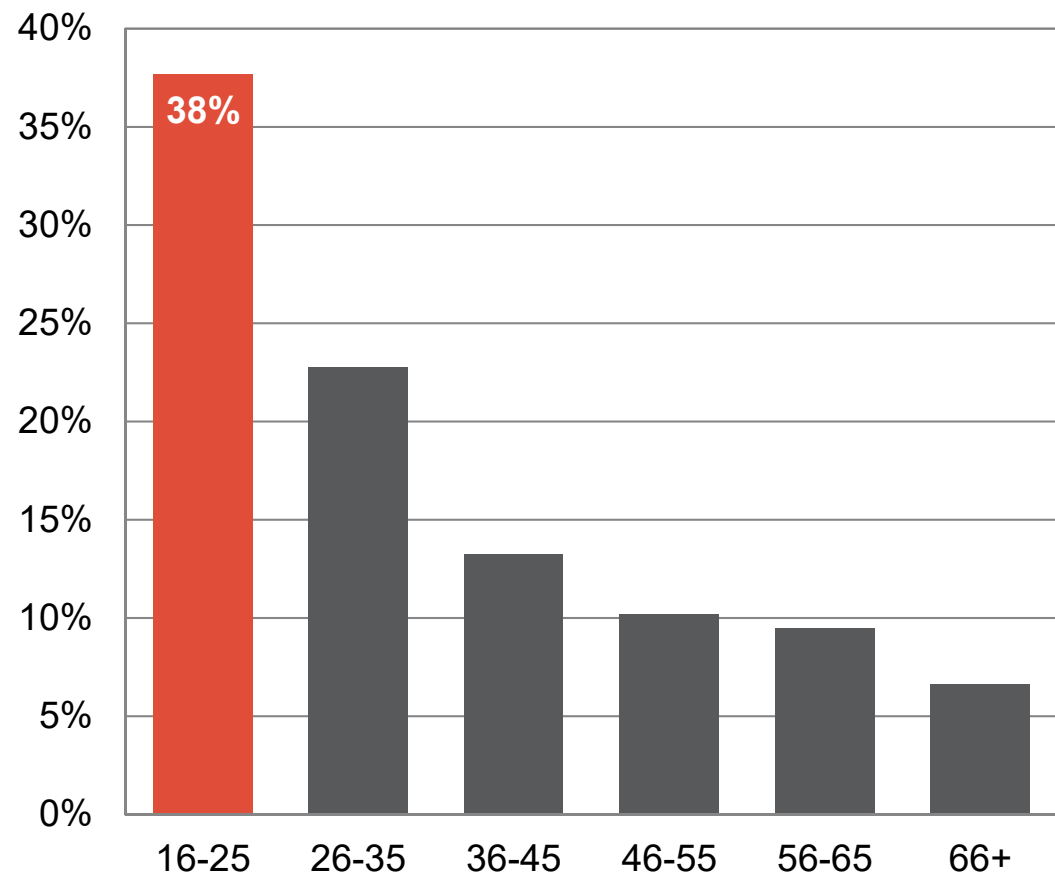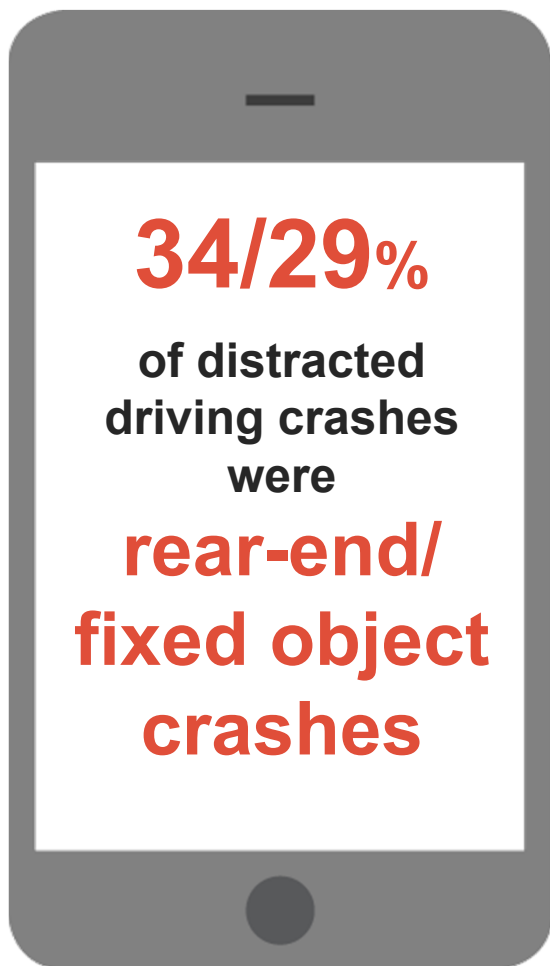
Bike & Ped Crashes

0.8% of **crashes** involved a bicycle or pedestrian.

20% of bicycle or pedestrian crashes resulted in a **serious crash**.

29% **Failure to Yield** was the top contributing factor in bicycle or pedestrian crashes.

24%

of **Serious Crashes** involved at least one unrestrained occupant

Next Steps

- **Analyzing high crash locations**

Next Meeting

- **Statewide Transportation Preference Survey (Steering Committee and Community Results)**

- **Work on Goals for the Transportation Plan.**

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