Comprehensive Highway Safety Plan Update

Advisory Committee Meeting 2

presented to

CHSP Advisory Committee

presented by

Audrey Wennink and Joe Fish

July 29, 2014

Accomplishments at Last Meeting

- Reviewed CHSP development history
- Reviewed experience and contributions of AC members
- Reviewed purpose of CHSP Update
- Reviewed MAP-21 requirements
- Discussed accomplishments and areas of opportunity for improvement in the CHSP Update

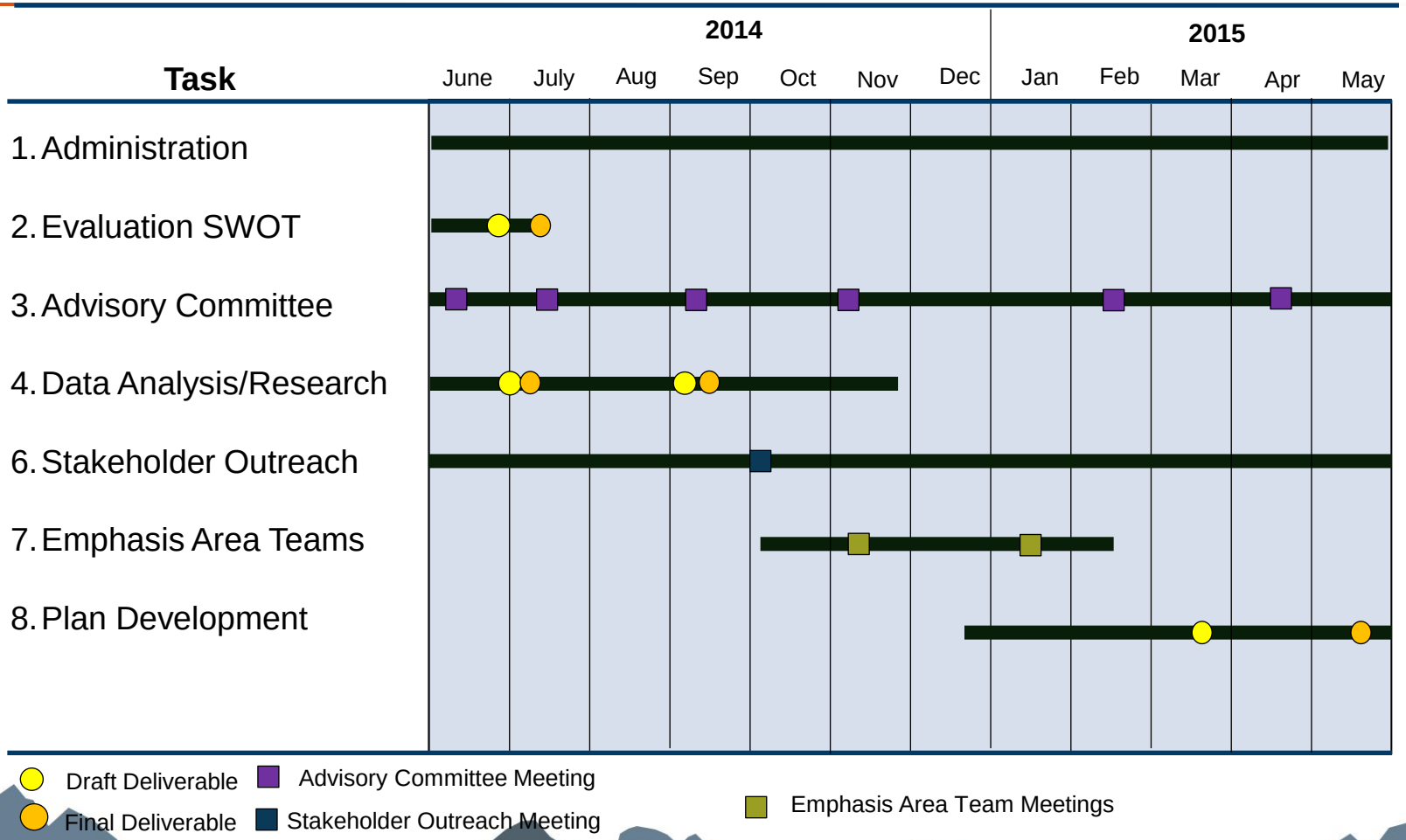
Montana CHSP Purpose

Implement a collaborative process to reduce fatalities and serious injuries in Montana utilizing engineering, enforcement, education, and emergency response strategies. The CHSP will seek to focus resources strategically, where opportunities for safety improvements are greatest.

Roles and Responsibilities of AC Members

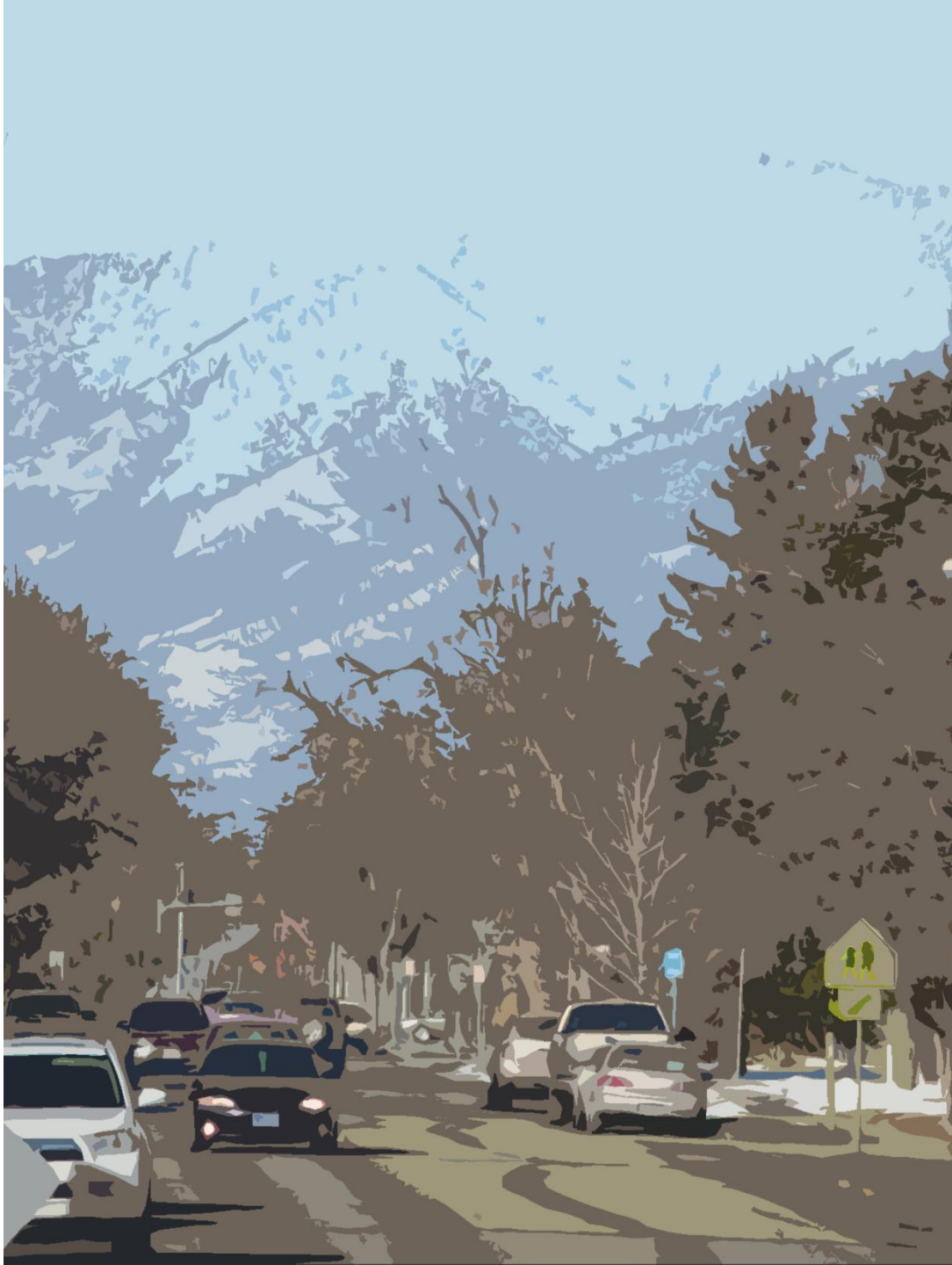
- Attend 6 Advisory Committee meetings
- Provide active guidance on CHSP development
  - Be creative!
- Help define problems and opportunities for improvement
- Support involvement of your agency's staff in Emphasis Area teams and future implementation

Schedule


2014
2015
Task
June
July
Aug
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
1. Administration
2. Evaluation SWOT
3. Advisory Committee
4. Data Analysis/Research
6. Stakeholder Outreach
7. Emphasis Area Teams
8. Plan Development
Draft Deliverable
Final Deliverable
Advisory Committee Meeting
Stakeholder Outreach Meeting
Emphasis Area Team Meetings

Strengths
Weaknesses
Opportunities
Threats
(SWOT)

Results



SWOT Methodology

- **Methodology**
  - **Survey at Annual Meeting**
  - **Advisory Committee Discussion**
  - **13 Individual Interviews**

- **Purpose**
  - **Inform the CHSP**
    - **Management/Organizational Structure**
    - **Processes**
    - **Strategies**
    - **Action steps**

SWOT - Strengths

- **Annual Meeting enables partnerships, collaboration, and networking and sustains momentum in safety activities.**
- **Montana has maintained a good level of implementation activity with most emphasis area teams continuing to meet regularly.**
- **Large and diverse group of active and engaged stakeholders.**

SWOT - Strengths

- **The State Highway Traffic Safety Section (SHTSS) has initiated a process of formally scoring grant applications, which will ensure continuous improvement and focus on results.**

- **Strategies in the Annual Element are tracked and reported in a very thorough and comprehensive manner.**

SWOT - Weaknesses

- Culture that has historically tolerated certain unsafe driving behaviors such as impaired driving and non-use of seatbelts.
- Lack of legislative awareness and involvement in the CHSP.
- Flexibility of the implementation process and reporting may need to be improved.
- Prosecution data are not easily accessible; difficult to determine which judicial education and law enforcement programs are improving outcomes

SWOT - Opportunities

- **Director Tooley strongly supports data-driven decisions and provides strong safety leadership with the roll out of the Vision Zero message.**
  - **An opportunity exists for Vision Zero to serve as overarching branding to communicate about safety to wide range of Montana agencies and the public.**

- **Safety effort would be greatly strengthened by re-establishing an Executive Committee to ensure support by all agency leadership.**

SWOT - Opportunities

- **MDT is evaluating engineering policy alignment with Vision Zero.**

- **New safety managements system is under development, which will improve crash data for analysis and integration of multiple datasets**

- **New approaches to making legislative changes should be considered.**
  - **Potential idea is to develop a Traffic Safety Act – a plan for addressing multiple safety law opportunities. Legislators could be asked to approve Vision Zero.**

SWOT - Opportunities

- **Evaluation must be a central part of safety efforts, to make sure the programs being implemented are really having an impact on reducing fatalities and injuries.**

- **Messaging for education and outreach needs to be carefully crafted to hit on the right values and actually change behavior, building upon lessons learned in the public health arena.**

- **Multi-jurisdictional enforcement campaigns (county, city, state) and saturation patrols would be very effective.**

SWOT - Threats

- Need to avoid the CHSP simply documenting what people are already doing. Now there is overemphasis on reporting. The process is having limited success in advancing new activities.

- Concern that Montana is too broad in its approach to safety. There is overlap of emphasis areas and strategies.
  - Over extends staff
  - May not generate the best possible results in coordinating efforts to reduce crash fatalities and injuries.

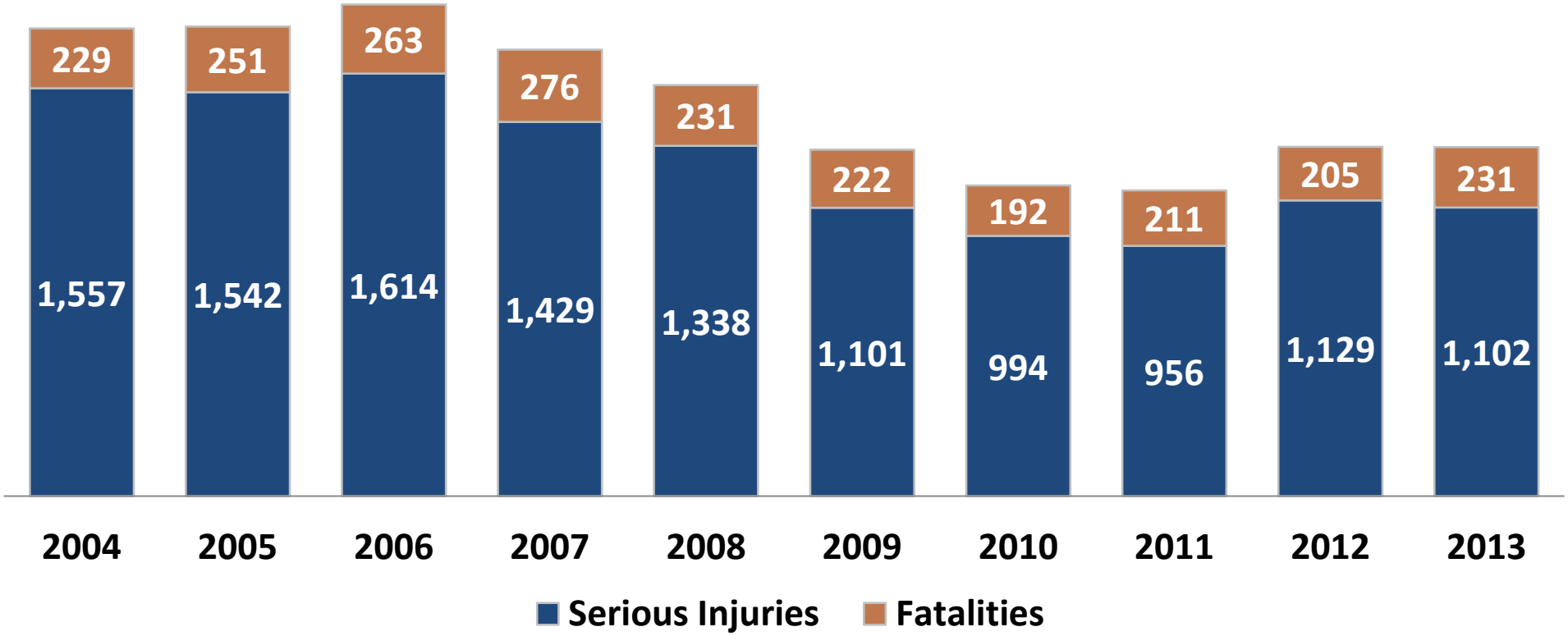
- It will be important in selecting the emphasis areas not to limit the future ability to address emerging issues.

Data Analysis

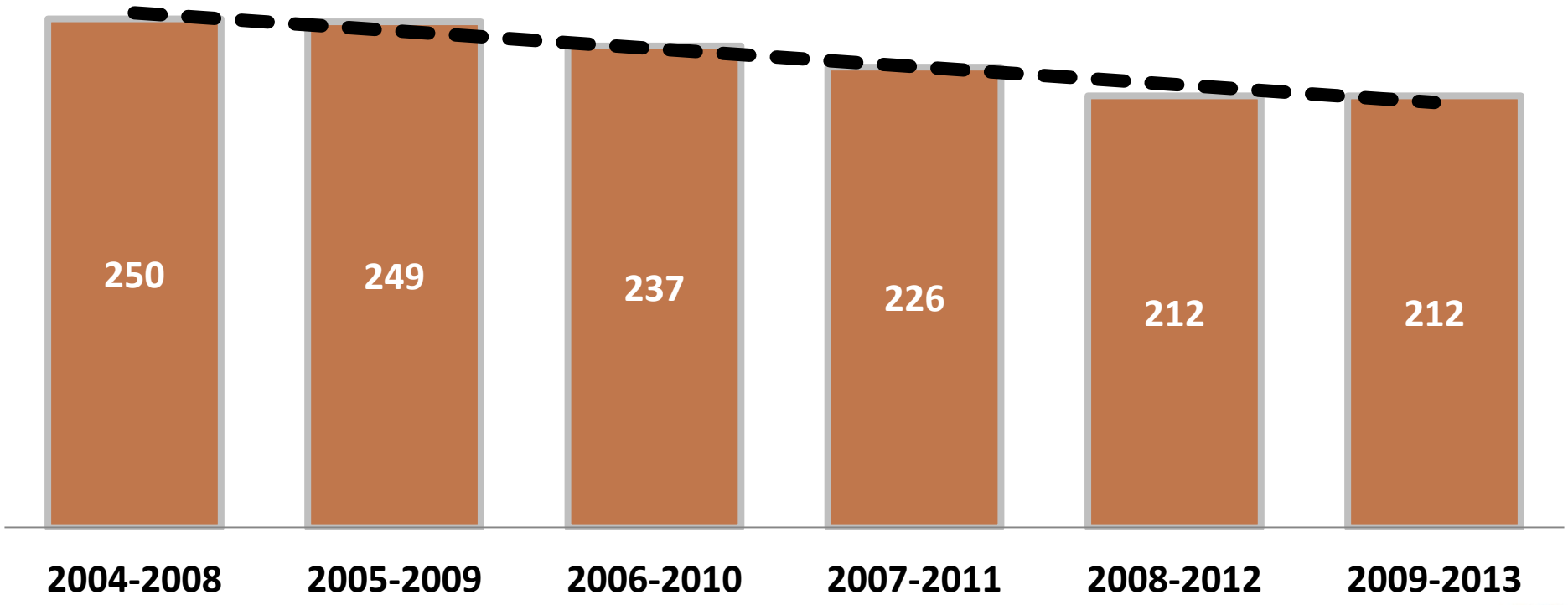
Crash Data Overview

- Based on crash report
- Data from MDT Safety Management System
- All public roads
- Lacking Tribal injury data (only fatal)

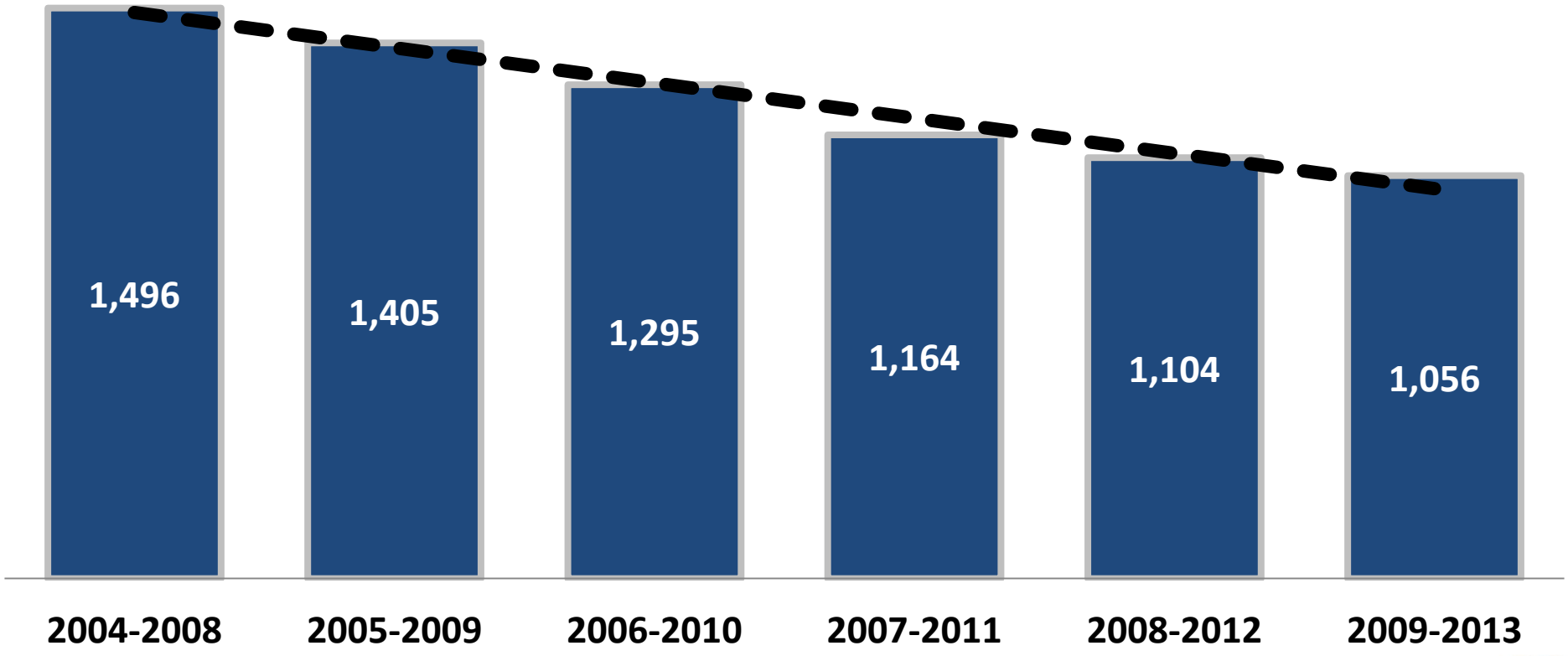
Annual Fatalities and Serious Injuries



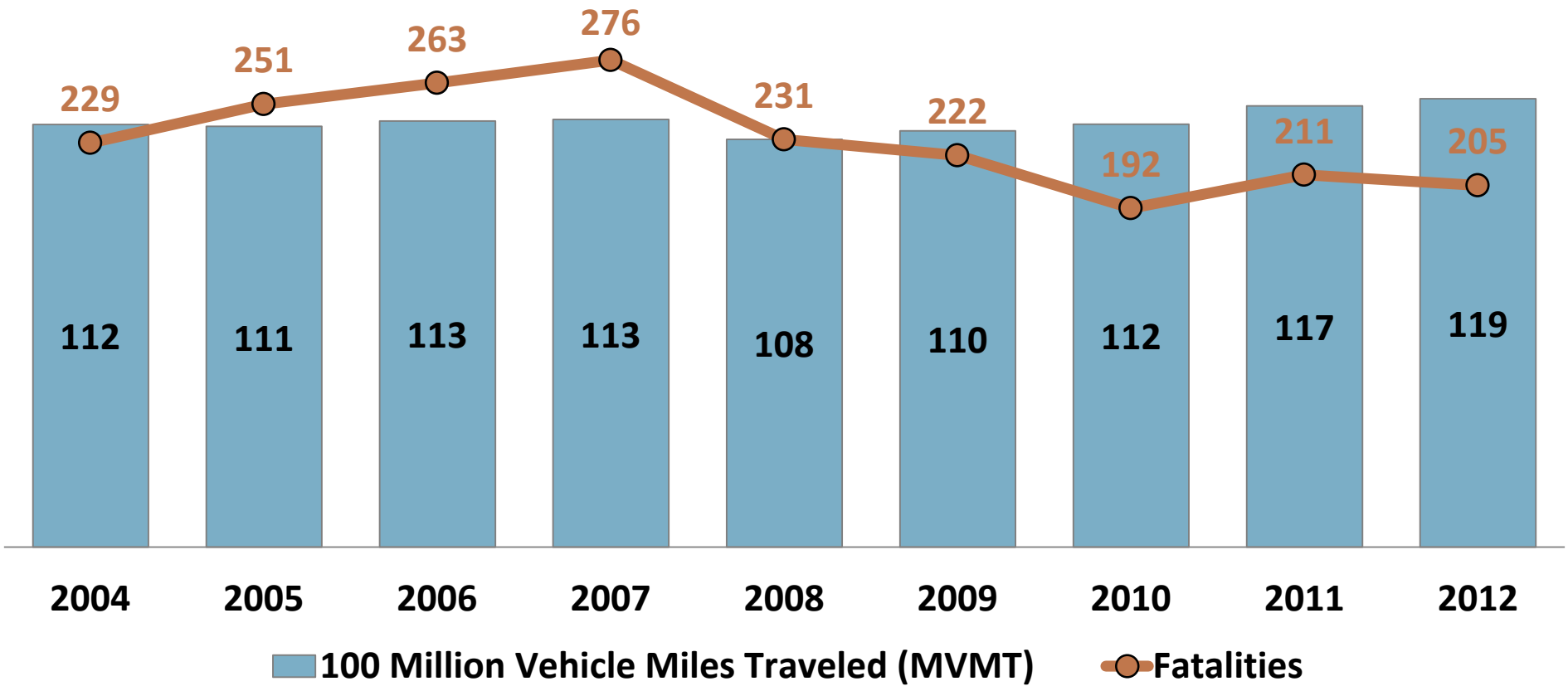
Fatalities: Five Year Rolling Average



Serious Injuries: Five Year Rolling Average



Fatalities and Vehicle Miles Traveled



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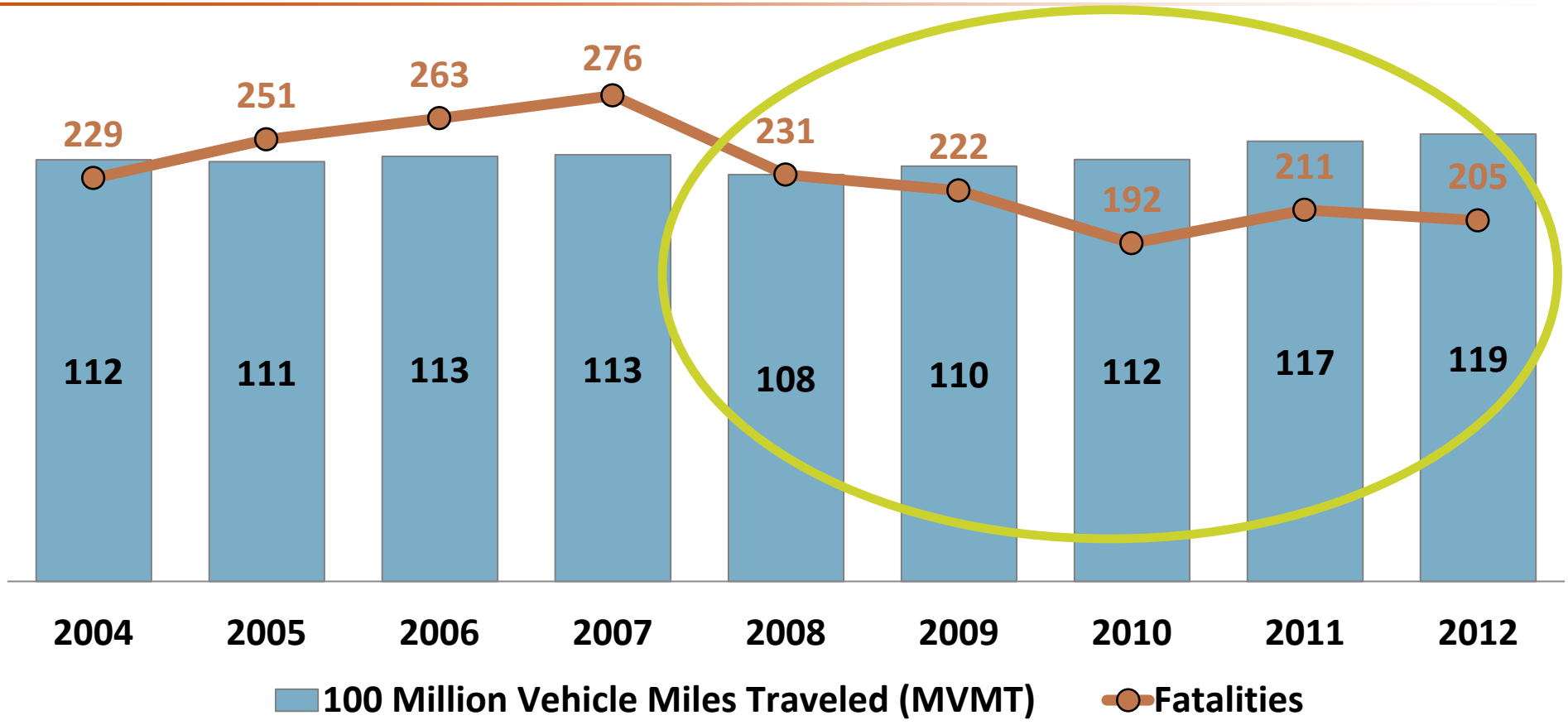
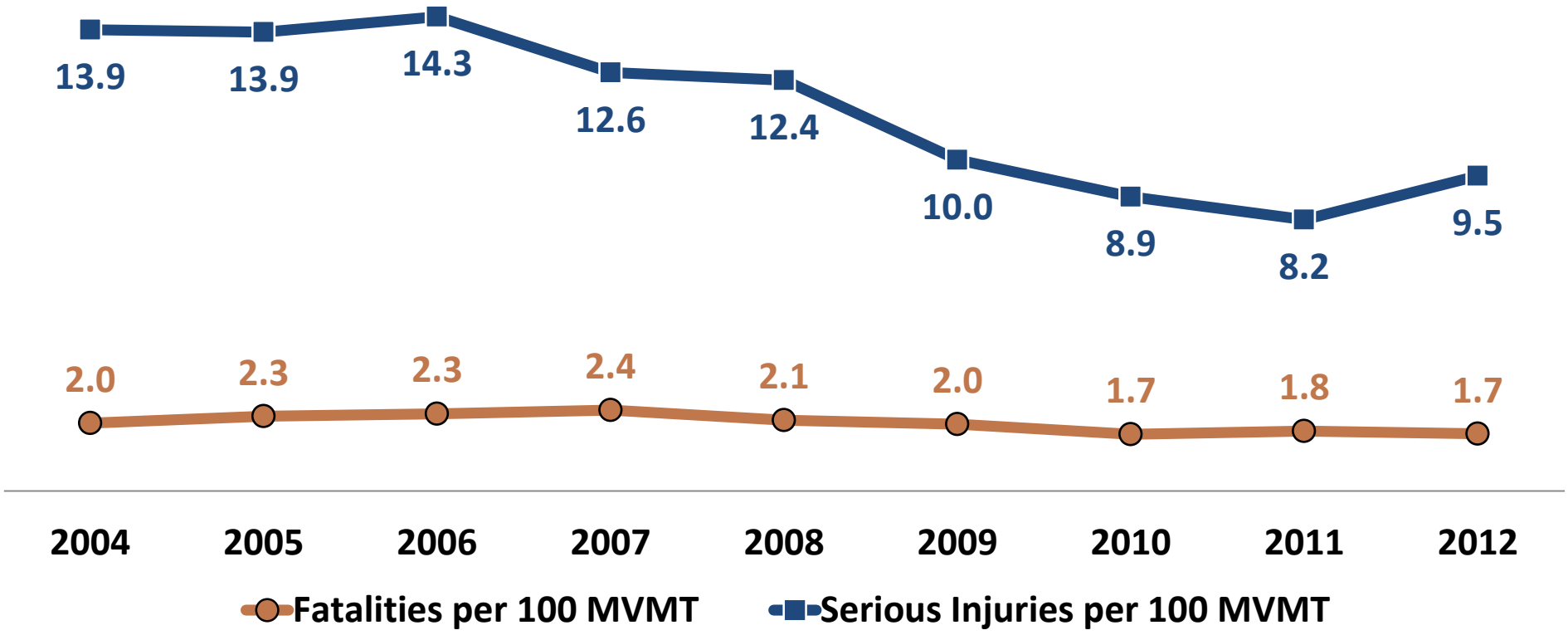


Fatality and Serious Injury Rates



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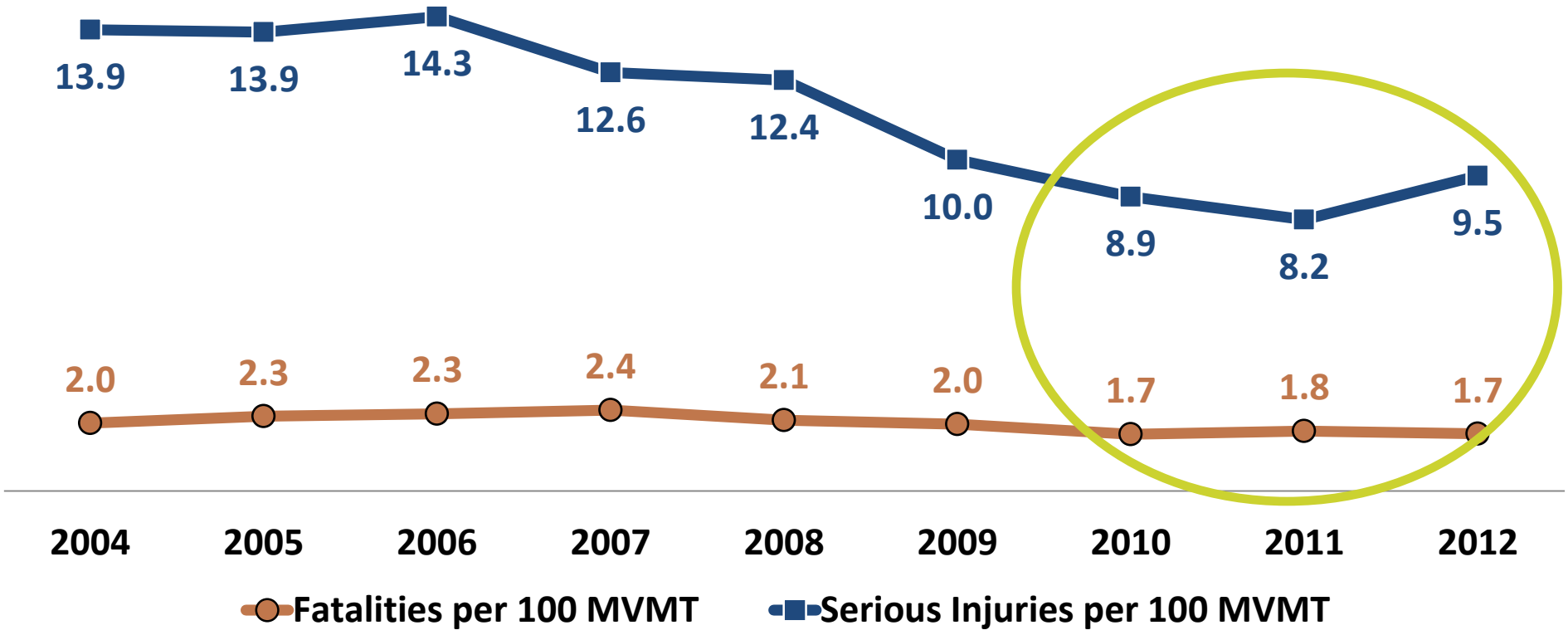
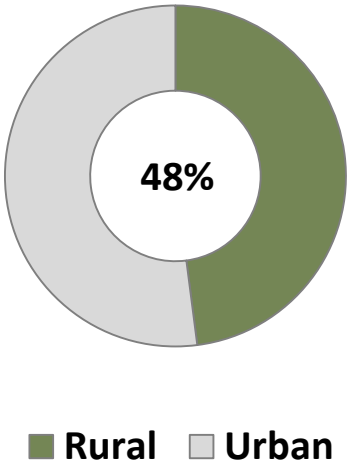
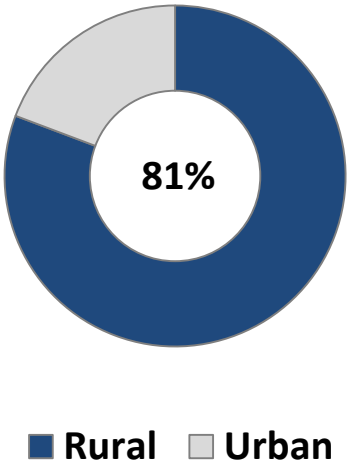


Rural Crashes

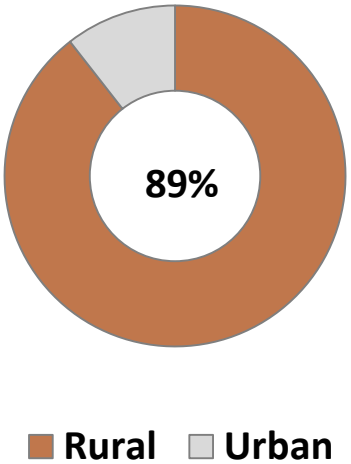
Total Crashes



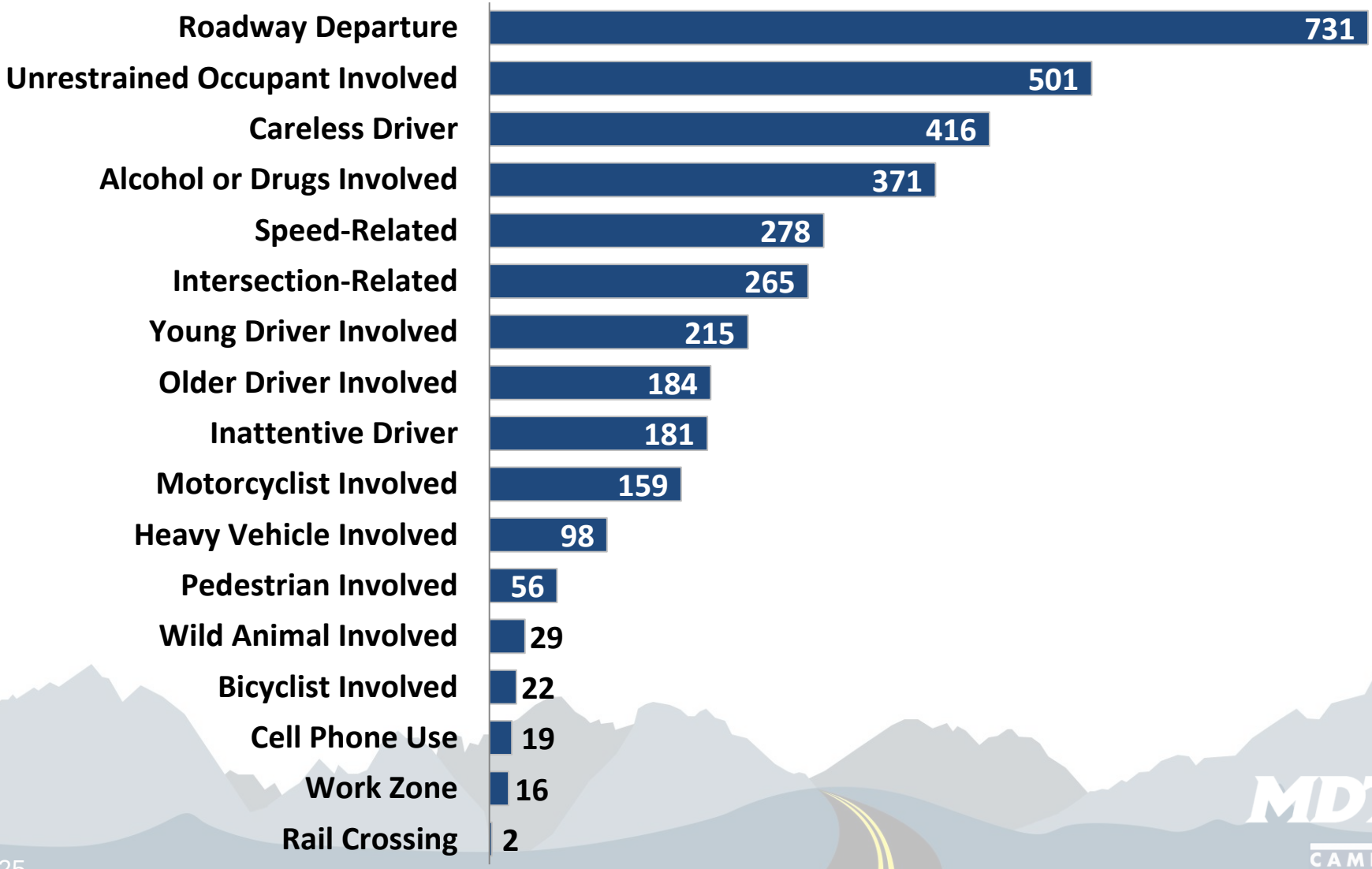
Serious Injuries



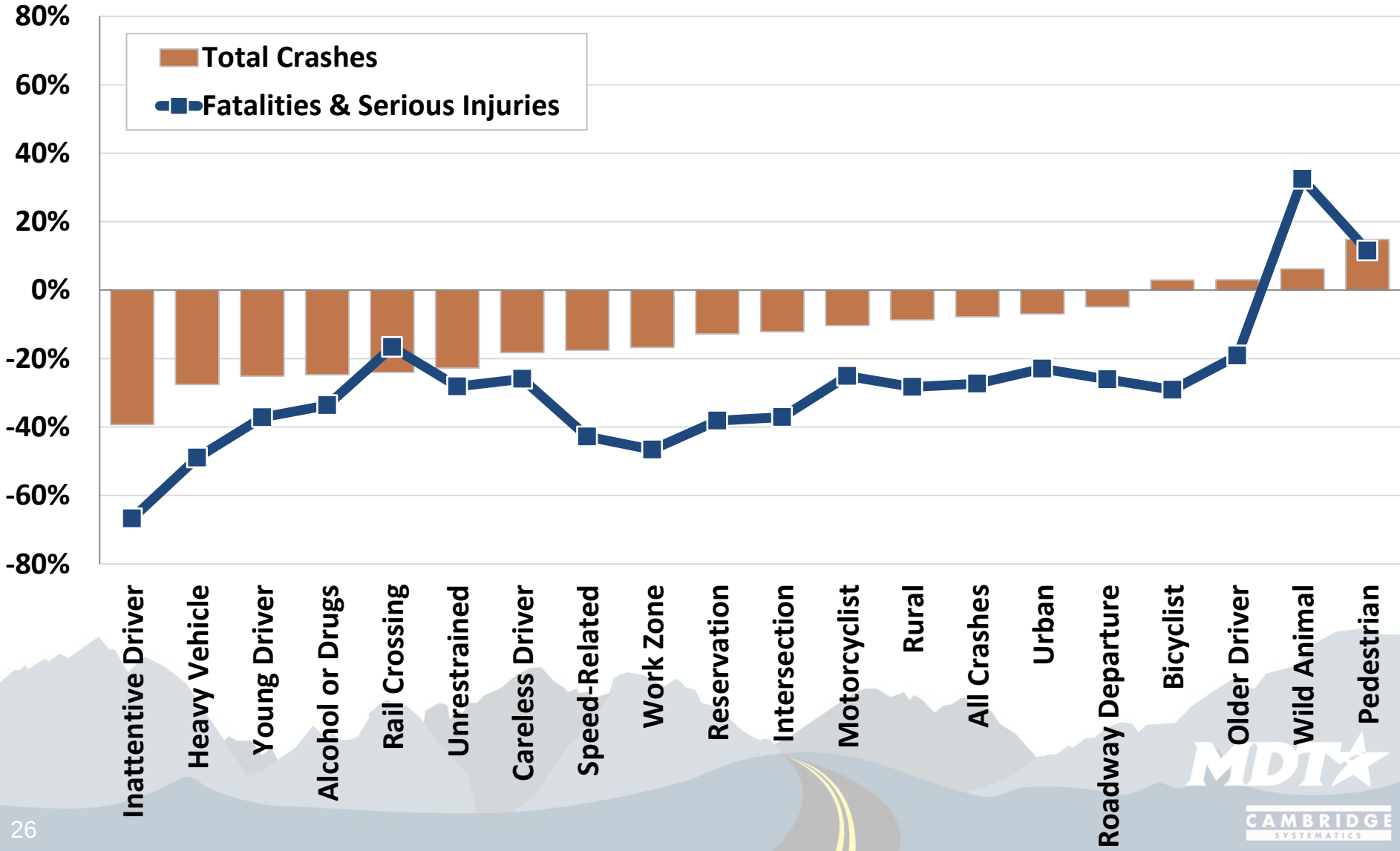
Fatalities



Average Annual Fatalities and Serious Injuries by Emphasis Area 2009-2013



Percentage Change from 2004-2008 to 2009-2013



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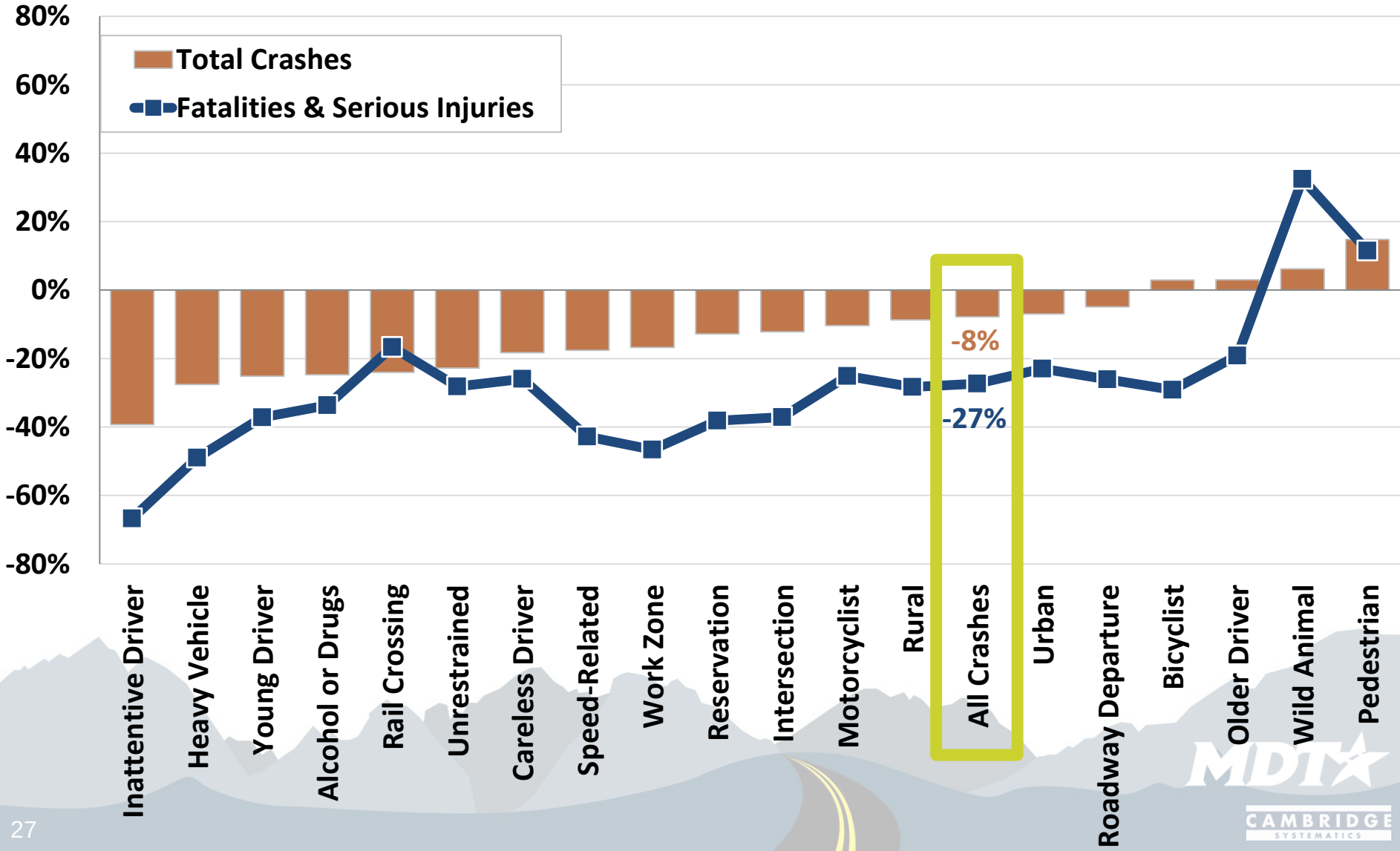
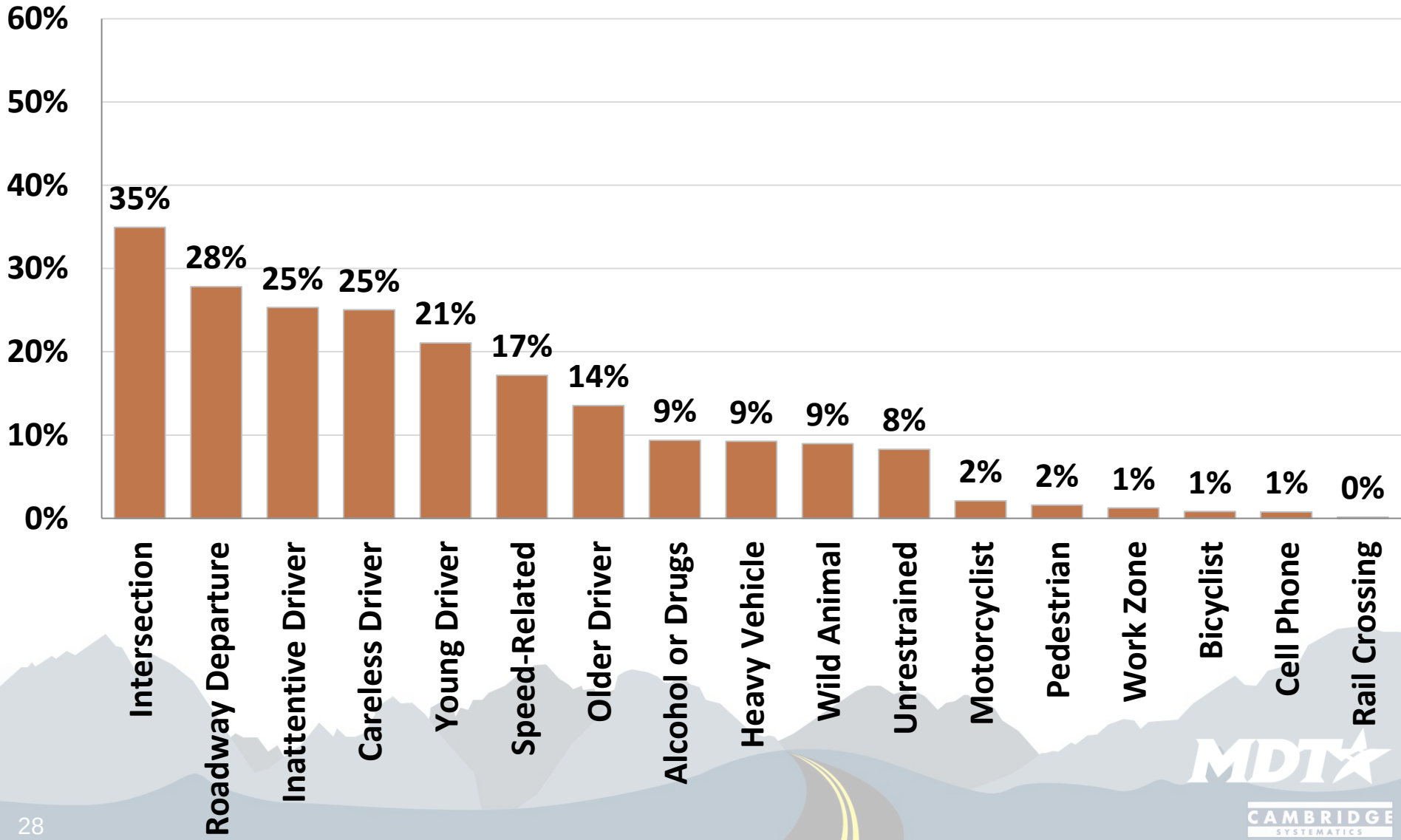
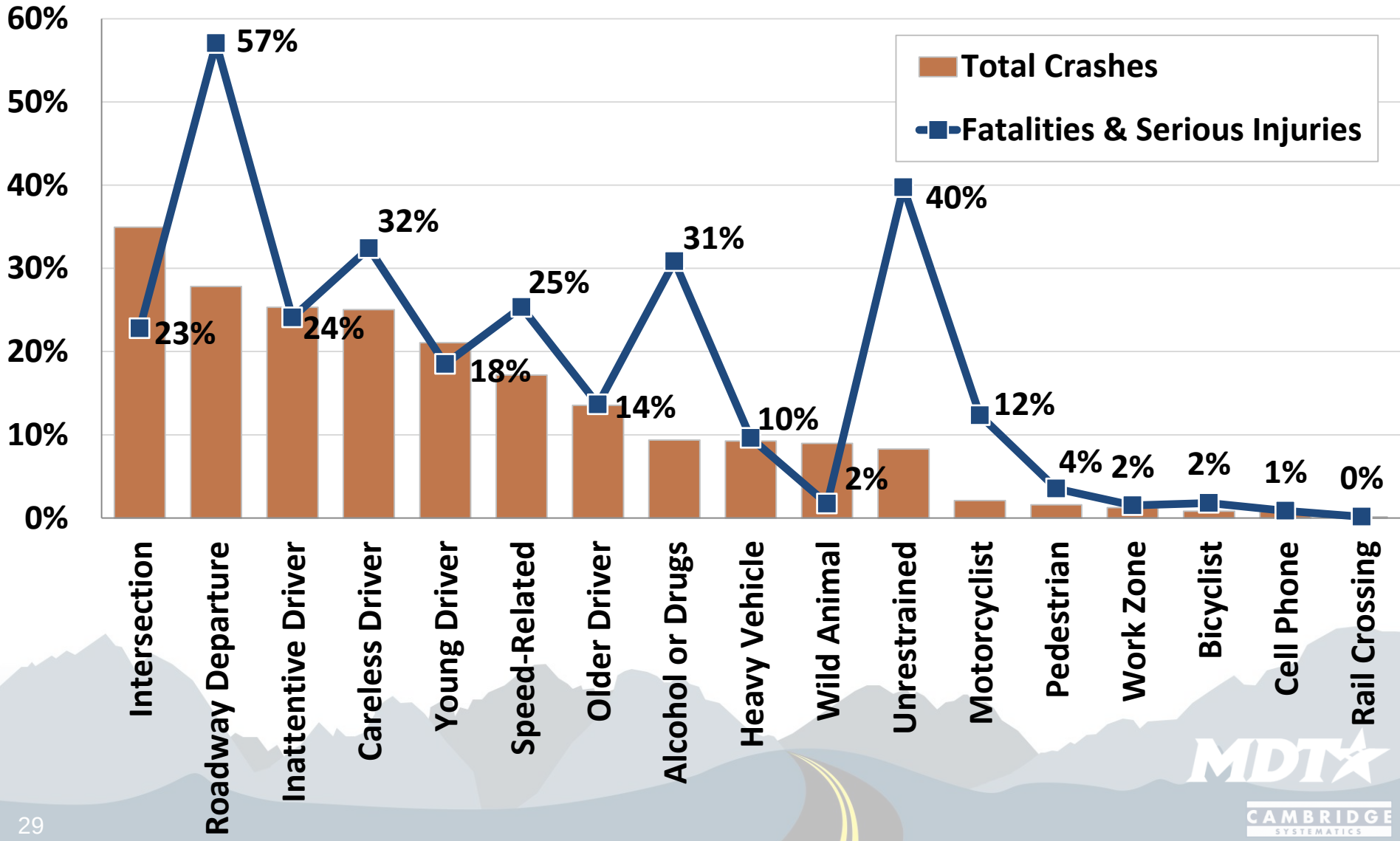


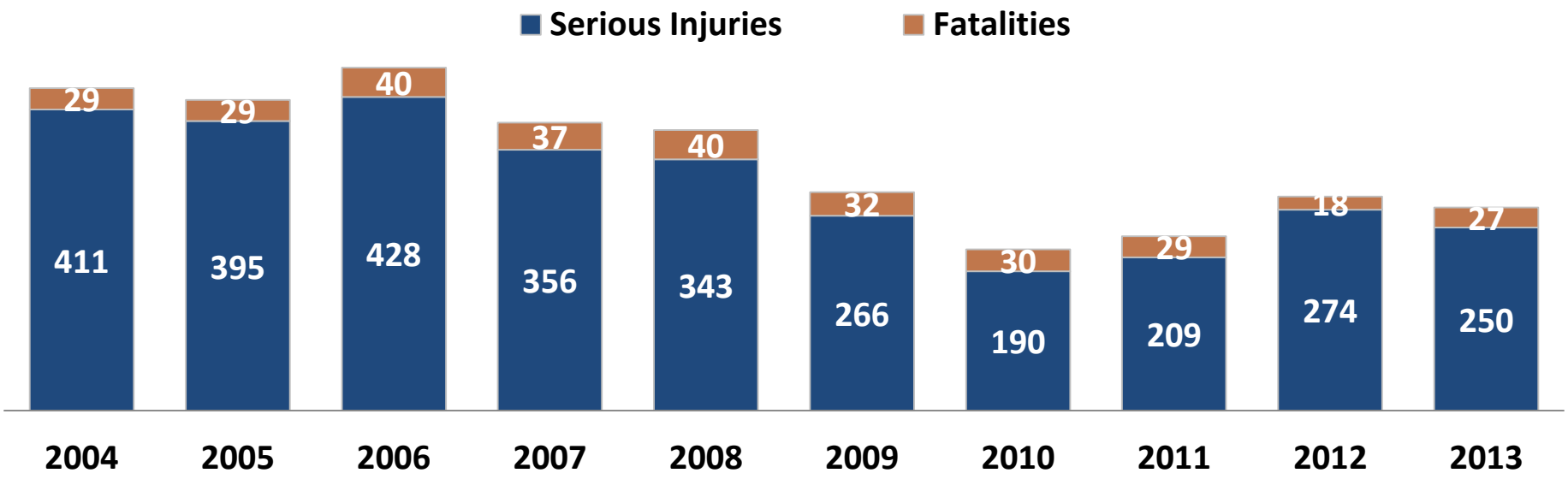
Percentage of Total Crashes by Emphasis Area



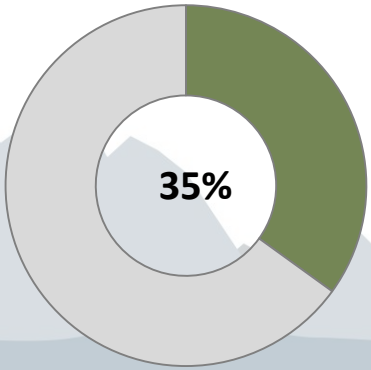
Percentage of Total Crashes and Fatalities & Serious Injuries by Emphasis Area



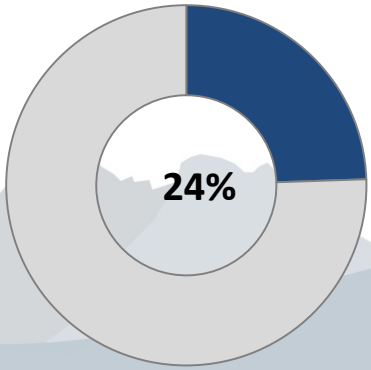
Intersection-Related Crashes



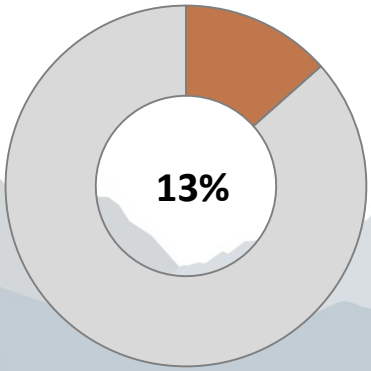
% of Total Crashes



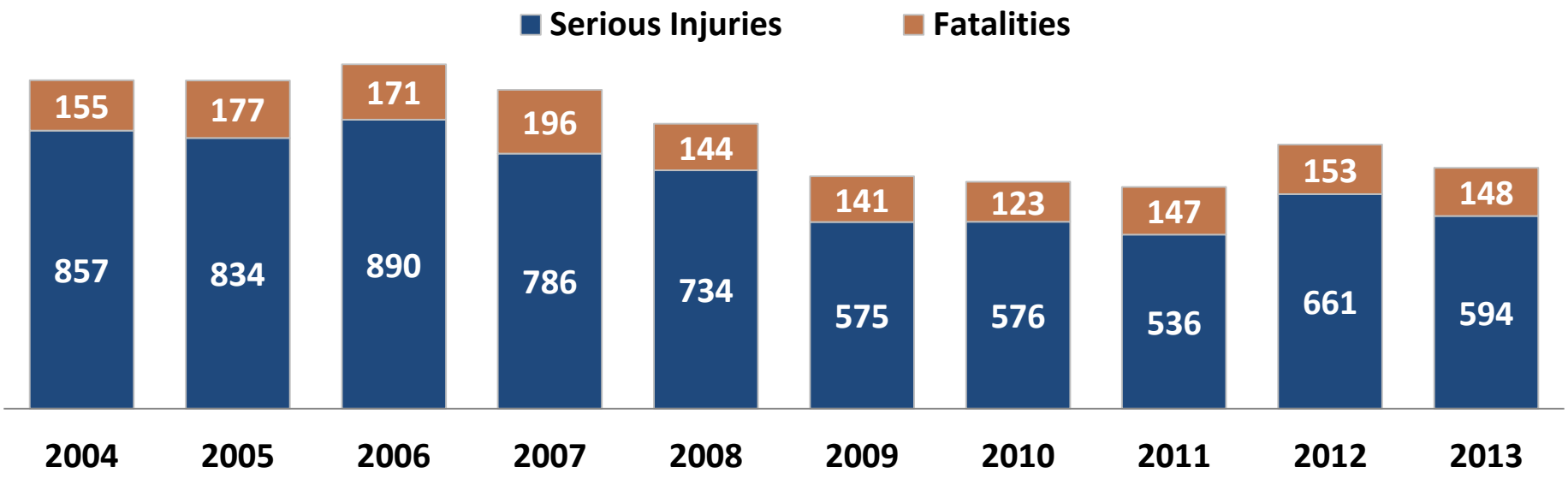
% of Serious Injuries



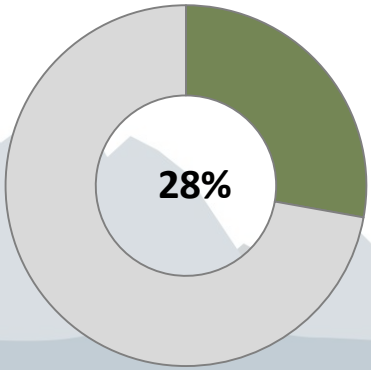
% of Fatalities



Roadway Departure Crashes



% of Total Crashes



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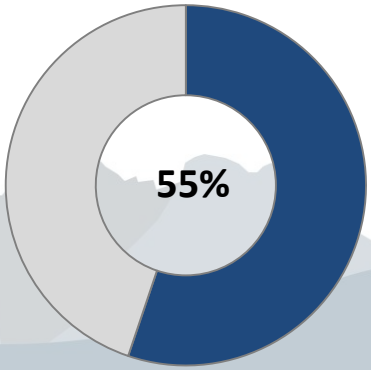

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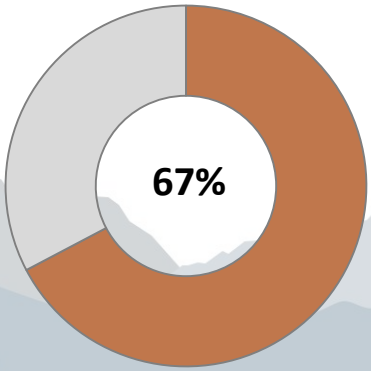
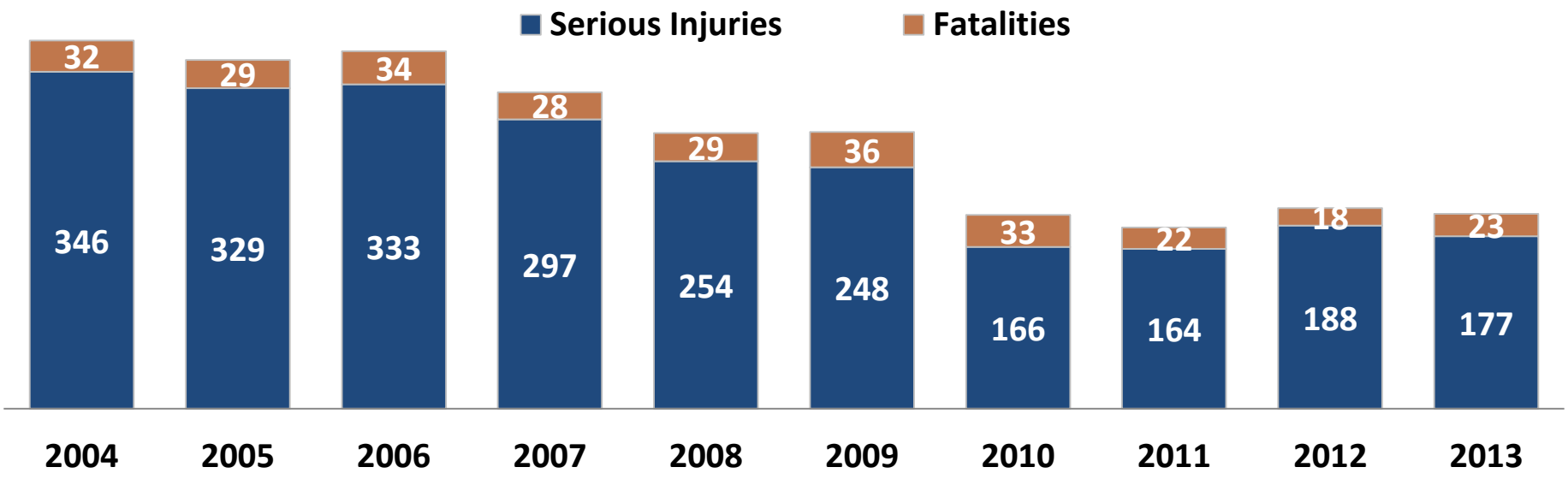
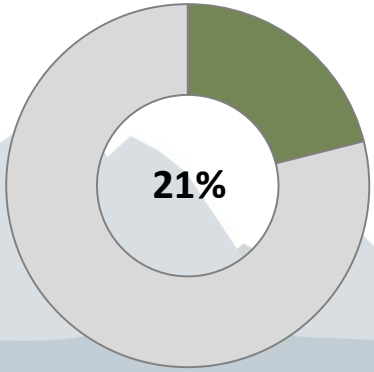


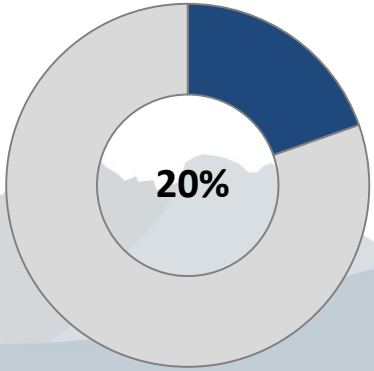
Crashes Involving a Young Driver



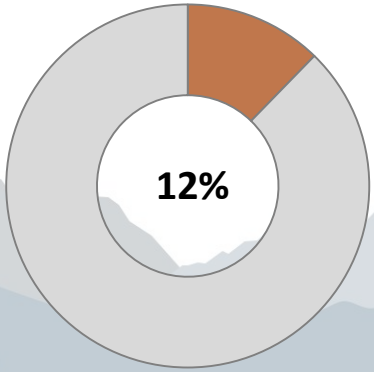
% of Total Crashes



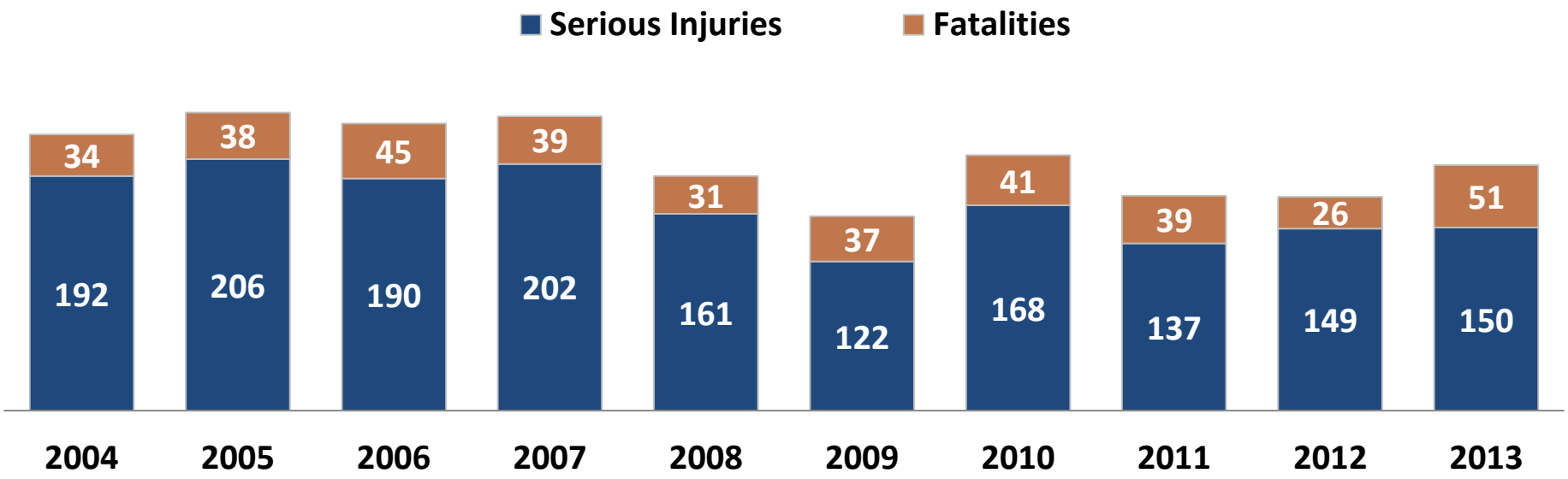
% of Serious Injuries



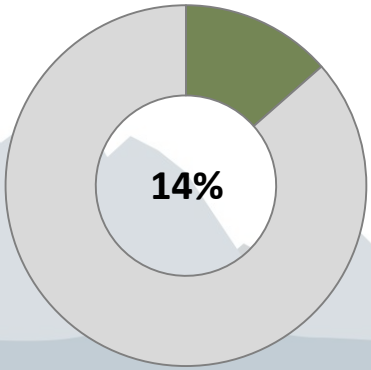
% of Fatalities



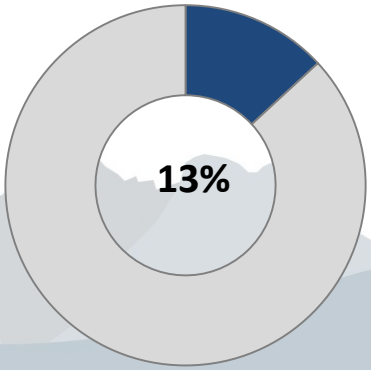
Crashes Involving an Older Driver



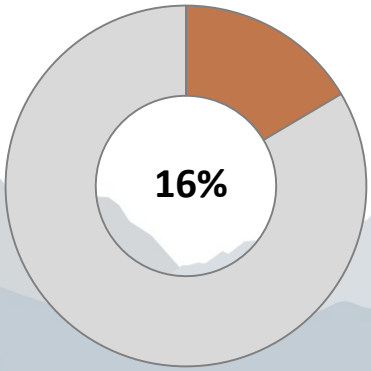
% of Total Crashes



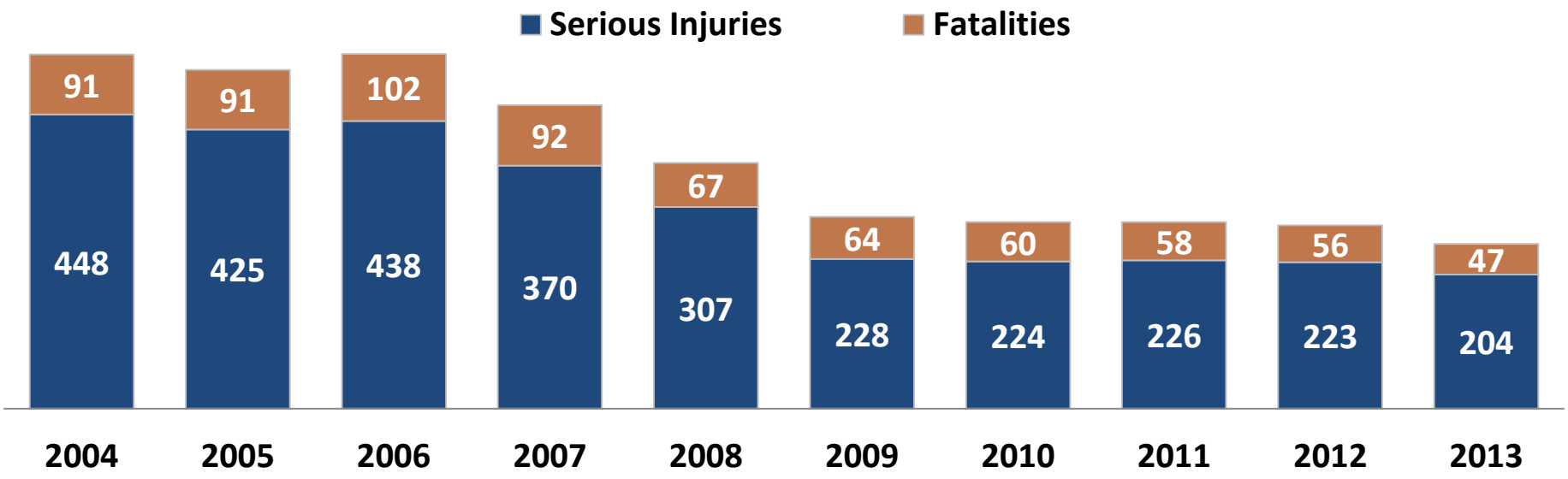
% of Serious Injuries



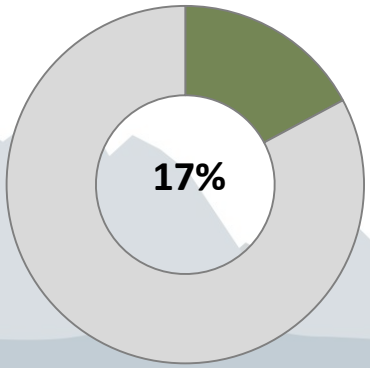
% of Fatalities



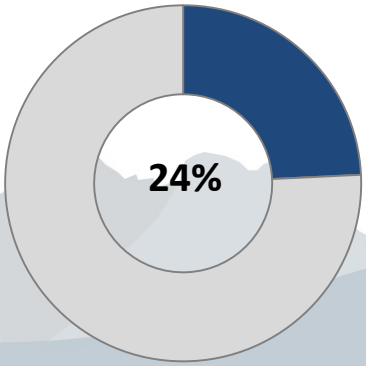
Speed-Related Crashes



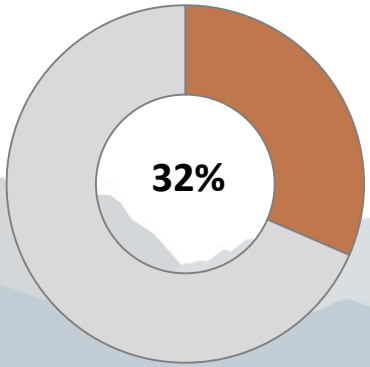
% of Total Crashes



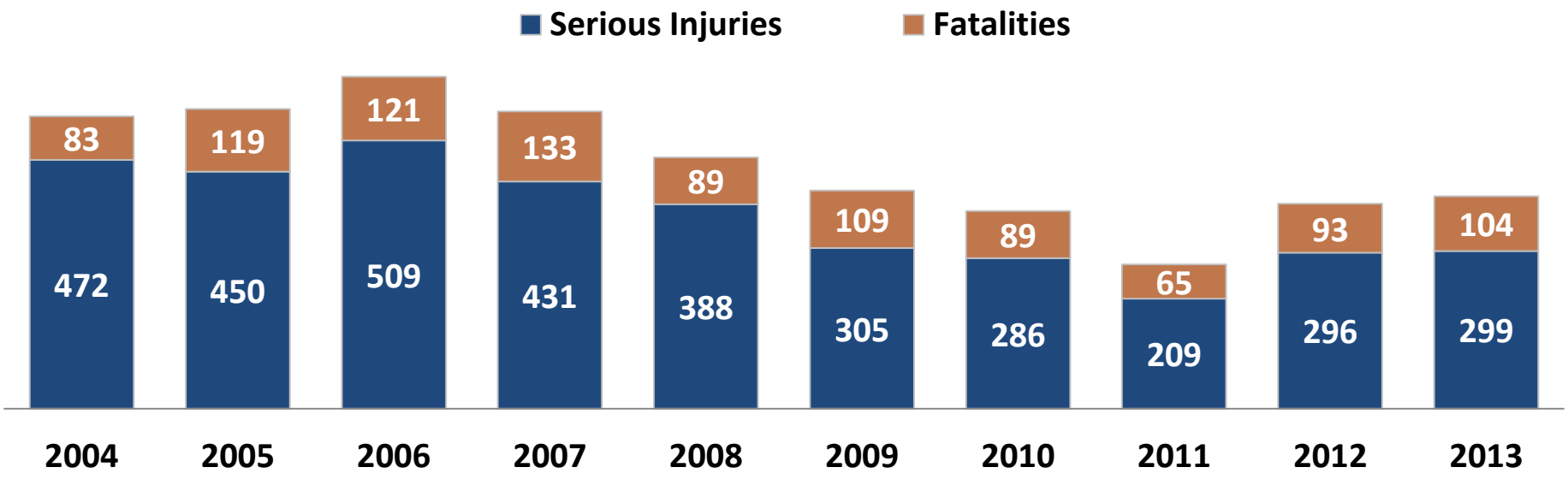
% of Serious Injuries



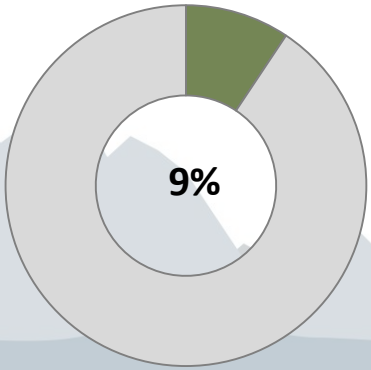
% of Fatalities



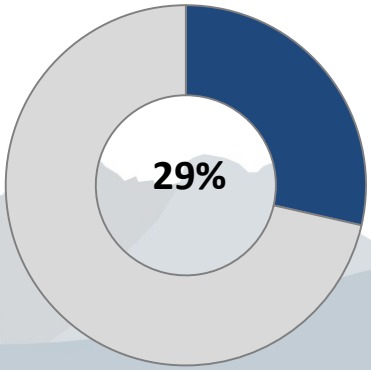
Crashes Involving Alcohol or Drugs



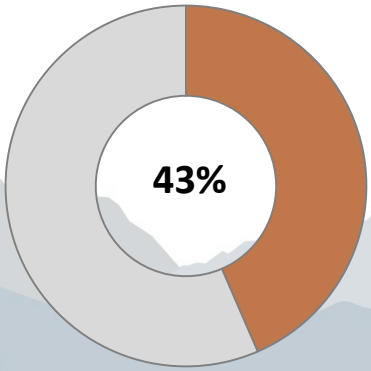
% of Total Crashes



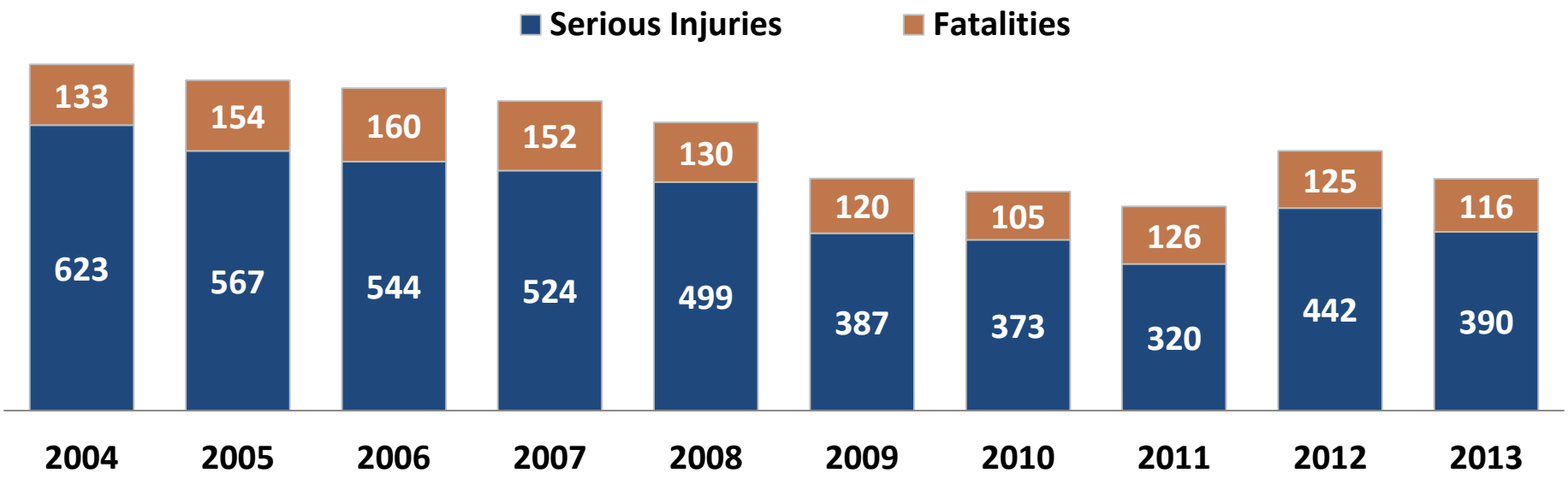
% of Serious Injuries



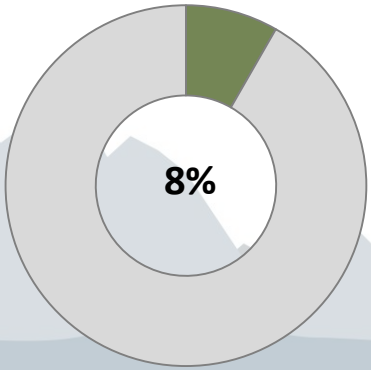
% of Fatalities



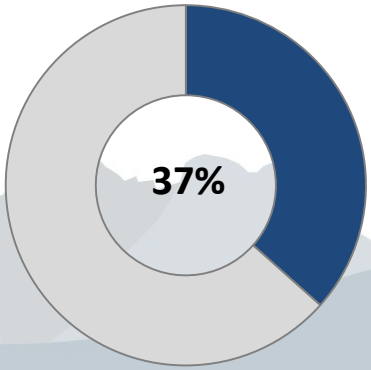
Crashes with an Unrestrained Passenger Vehicle Occupant



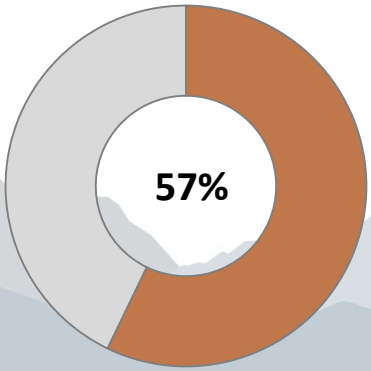
% of Total Crashes



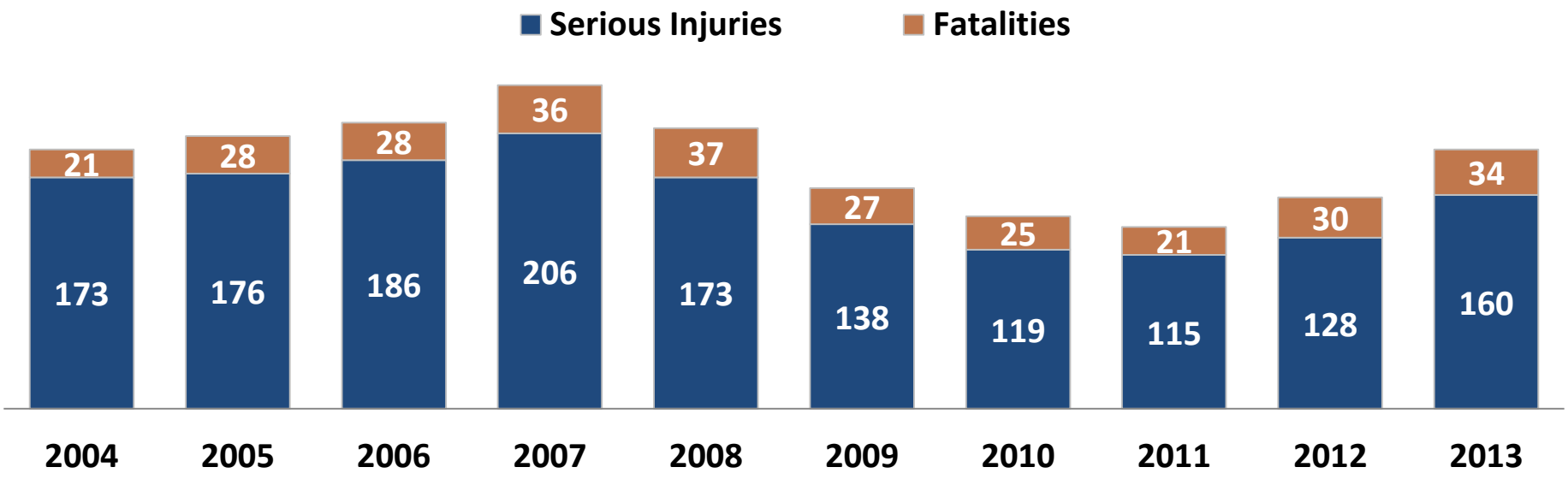
% of Serious Injuries



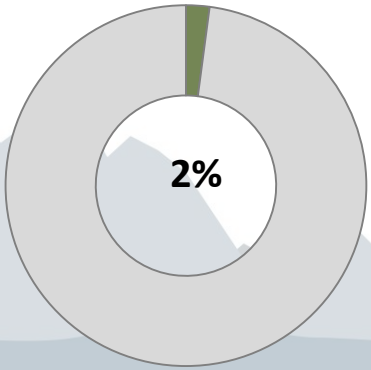
% of Fatalities



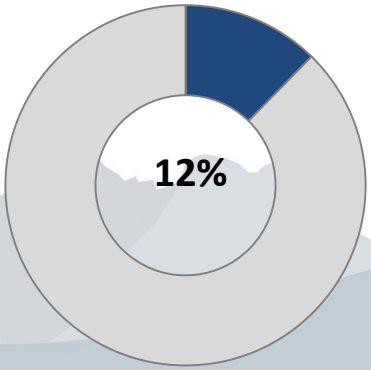
Crashes Involving a Motorcyclist



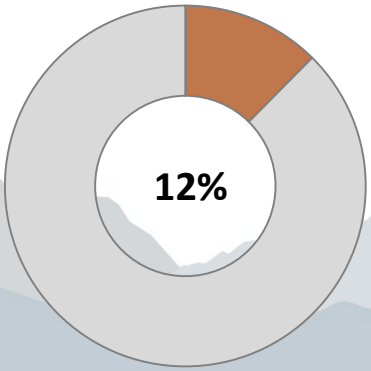
% of Total Crashes



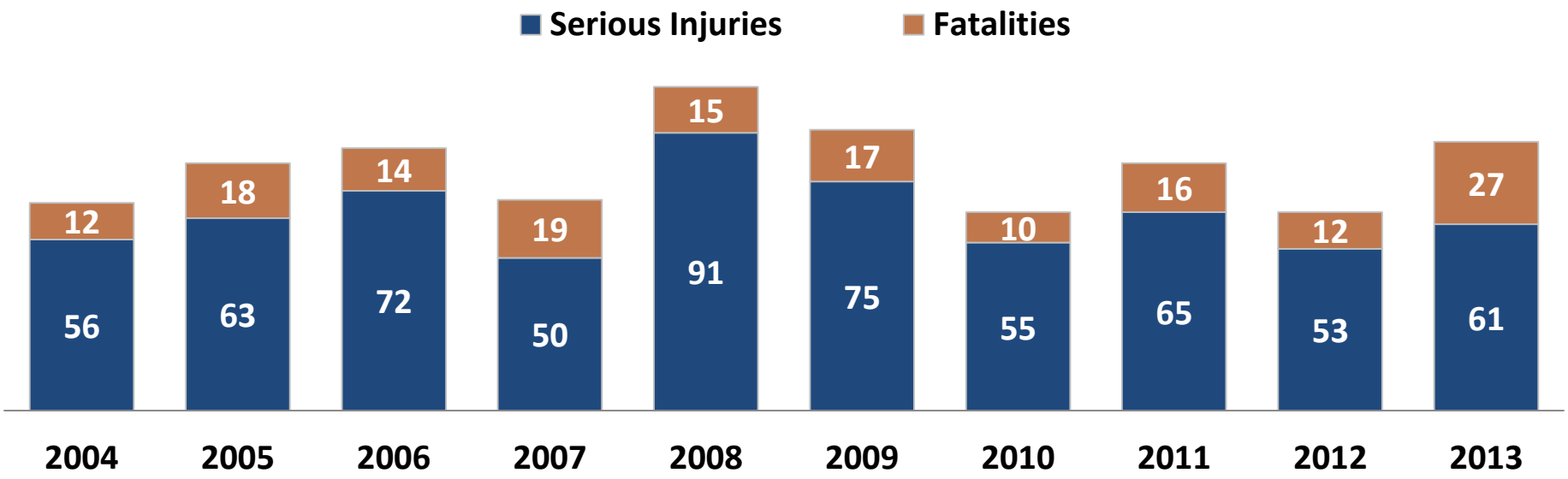
% of Serious Injuries



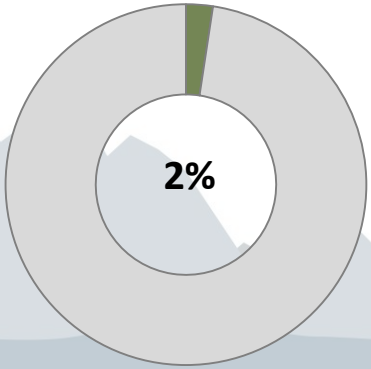
% of Fatalities



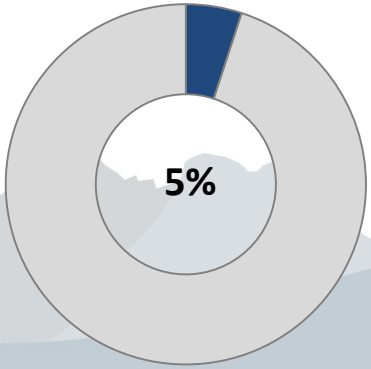
Crashes Involving a Pedestrian or Bicyclist



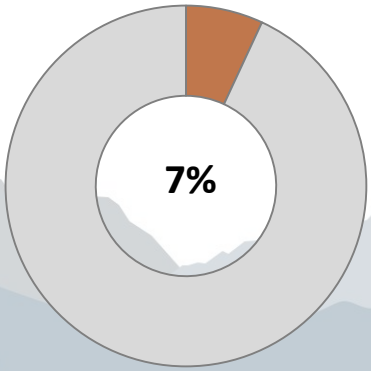
% of Total Crashes



% of Serious Injuries



% of Fatalities



Most Prevalent Overlapping Emphasis Areas

1. **Roadway departures and unrestrained occupants**
2. **Unrestrained occupants and alcohol/drug-related crashes**
3. **Careless driving and alcohol/drug-related crashes**
4. **Speed-related crashes and alcohol/drug-related crashes**
5. **Inattentive driving and speed-related crashes**

Potential Emphasis Area Organization

Safe System Approach

- Roads and Roadsides
- Speed
- Vehicles
- Road Users

Safe System Approach

- **Roads and Roadsides**
  - Roadway Departure
  - Intersection
  - Rail Crossing
  - Wild Animal
- **Speed**
- ***Vehicles***
- **Road Users**
  - Young Driver
  - Older Driver
  - Motorcycles
  - Occupant Protection
  - Alcohol and Drugs
  - Heavy Vehicles
  - Pedestrian
  - Bicyclist
  - Inattentive/Distracted
  - Native American

Toward Zero Deaths

- **Safer Drivers and Passengers**
- **Safer Vulnerable Users**
- ***Safer Vehicles***
- **Safer Infrastructure**
- **Enhanced EMS**
- **Improved Safety Management**

Toward Zero Deaths

- **Safer Drivers and Passengers**
  - Occupant Protection
  - Alcohol and Drugs
  - Young Driver
  - Older Driver
  - Occupant Protection
  - Large Vehicles
  - Inattentive/Distracted
  - Native American
  - Heavy Vehicle
  - Speed
- ***Safer Vehicles***
- **Safer Vulnerable Users**
  - Motorcyclist
  - Bicyclist
  - Pedestrian
- **Safer Infrastructure**
  - Roadway Departure
  - Intersection
  - Wild Animal
  - Work Zone
  - Rail Crossing
- **Enhanced EMS**
- **Improved Safety Management**

4Es

- Engineering
- Enforcement
- Education
- Emergency Response

4Es

- **Engineering**
  - Roadway Departure
  - Intersection
  - Wild Animal
  - Work Zone
  - Rail Crossing
  - Native American
  - Bicycle
  - Pedestrian
  - Motorcycle
- **Enforcement**
  - Alcohol/Drug
  - Occupant Protection
  - Heavy Vehicles
  - Native American
  - Inattentive/Distracted
  - Bicycle
  - Pedestrian
  - Motorcycle
- **Education**
  - Younger
  - Older
  - Occupant Protection
  - Motorcycle
  - Heavy Vehicles
  - Native American
  - Alcohol/Drug
  - Speed
  - Inattentive/Distracted
  - Bicycle
  - Pedestrian
- **Emergency Response**

Group Discussion: Emphasis Area Selection/Organization

Next Meeting

- Review Crash Trends
- Develop Performance Measures and Targets
- Date of next meeting: Tuesday, September 23

	Overlapping Emphasis Areas (Fatalities & Serious Injuries, 2004-2013**)**				
	1	**2**	**3**	**4**	**5**
Total	Roadway Departure	Unrestrained Occupant Involved	Careless Driver	Impaired Driver	Speed-Related
Urban	Intersection-Related	Careless Driver	Young Driver Involved	Inattentive Driver	Impaired Driver
Rural	Roadway Departure	Unrestrained Occupant Involved	Careless Driver	Impaired Driver	Speed-Related
Native American	Unrestrained Occupant Involved	Roadway Departure	Impaired Driver	Careless Driver	Speed-Related
Intersection-Related	Unrestrained Occupant Involved	Inattentive Driver	Careless Driver	Young Driver Involved	Impaired Driver
Roadway Departure	Unrestrained Occupant Involved	Impaired Driver	Careless Driver	Speed-Related	Inattentive Driver
Work Zone	Roadway Departure	Unrestrained Occupant Involved	Careless Driver	Impaired Driver	Inattentive Driver
Rail Crossing	Unrestrained Occupant Involved	Inattentive Driver	Impaired Driver	Roadway Departure	Careless Driver
Wild Animal Involved	Motorcycle Involved	Impaired Driver	Older Driver Involved	Speed-Related	Heavy Vehicle Involved
Speed-Related	Roadway Departure	Unrestrained Occupant Involved	Impaired Driver	Careless Driver	Young Driver Involved
Unrestrained Occupant Involved	Roadway Departure	Impaired Driver	Careless Driver	Speed-Related	Inattentive Driver
Impaired Driver	Roadway Departure	Unrestrained Occupant Involved	Careless Driver	Speed-Related	Inattentive Driver
Inattentive Driver	Roadway Departure	Unrestrained Occupant Involved	Careless Driver	Intersection-Related	Impaired Driver
Careless Driver	Roadway Departure	Unrestrained Occupant Involved	Impaired Driver	Inattentive Driver	Speed-Related
Cell Phone Use	Roadway Departure	Careless Driver	Unrestrained Occupant Involved	Impaired Driver	Inattentive Driver
Young Driver Involved	Roadway Departure	Unrestrained Occupant Involved	Careless Driver	Intersection-Related	Inattentive Driver
Older Driver Involved	Roadway Departure	Intersection-Related	Unrestrained Occupant Involved	Careless Driver	Inattentive Driver
Heavy Vehicle Involved	Roadway Departure	Careless Driver	Intersection-Related	Inattentive Driver	Speed-Related
Motorcycle Involved	Roadway Departure	Careless Driver	Inattentive Driver	Speed-Related	Intersection-Related
Pedestrian Involved	Intersection-Related	Impaired Driver	Older Driver Involved	Young Driver Involved	Roadway Departure
Bicycle Involved	Intersection-Related	Inattentive Driver	Careless Driver	Young Driver Involved	Impaired Driver