

Comprehensive Highway Safety Plan Update Process

Transportation Safety Summit

presented to

Summit Participants

presented by

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CAMBRIDGE
SYSTEMATICS

CHSP Update Process and Federal Requirements

MAP-21 Requirements

- » **Data-driven and Evidence-Based Process**
- » **Include Diverse Stakeholders**
- » **Integrate with Other Plans**
- » **Develop Performance Measures**
- » **Define Effective Strategies & Countermeasures**
- » **Define Evaluation & Update Schedule**

Safety Program Coordination



4Es of Safety – Select Montana Partners

Engineering

MDT
County
Engineers/DPW
Municipal
Engineers/DPW
Maintenance
Supervisors
Tribal Engineers/DPW
Transportation
Planning

Emergency Response

Dept. of Health and
Human Svc. - EMS
Fire Departments
Police Departments
Hospitals
Emergency Care
Council
State Trauma Care
Committee
Montana Highway
Patrol
MDT Maintenance

Education

State Highway Traffic
Safety Office
Of. of Public Instruction
Dept. of Health and
Human Svc.- Injury
Prevention
MT School Boards
Association
Colleges
Schools
Tribes
Buckle Up MT Coalition
Motor Vehicle Division
Motorcycle Rider Safety
AAA
AARP
Bike/Walk Montana
MT Transit Assoc.

Enforcement

Motor Carrier Svc.
Montana Highway
Patrol
County Sheriffs
Municipal PDs
Tribal Police
DUI Courts
Chemical
Dependency Prog.
MT Board of Crime
Control
Dept. of Revenue-
Liquor Control
Dept. of Justice
Office of Court
Administrator
Motor Vehicle Div.

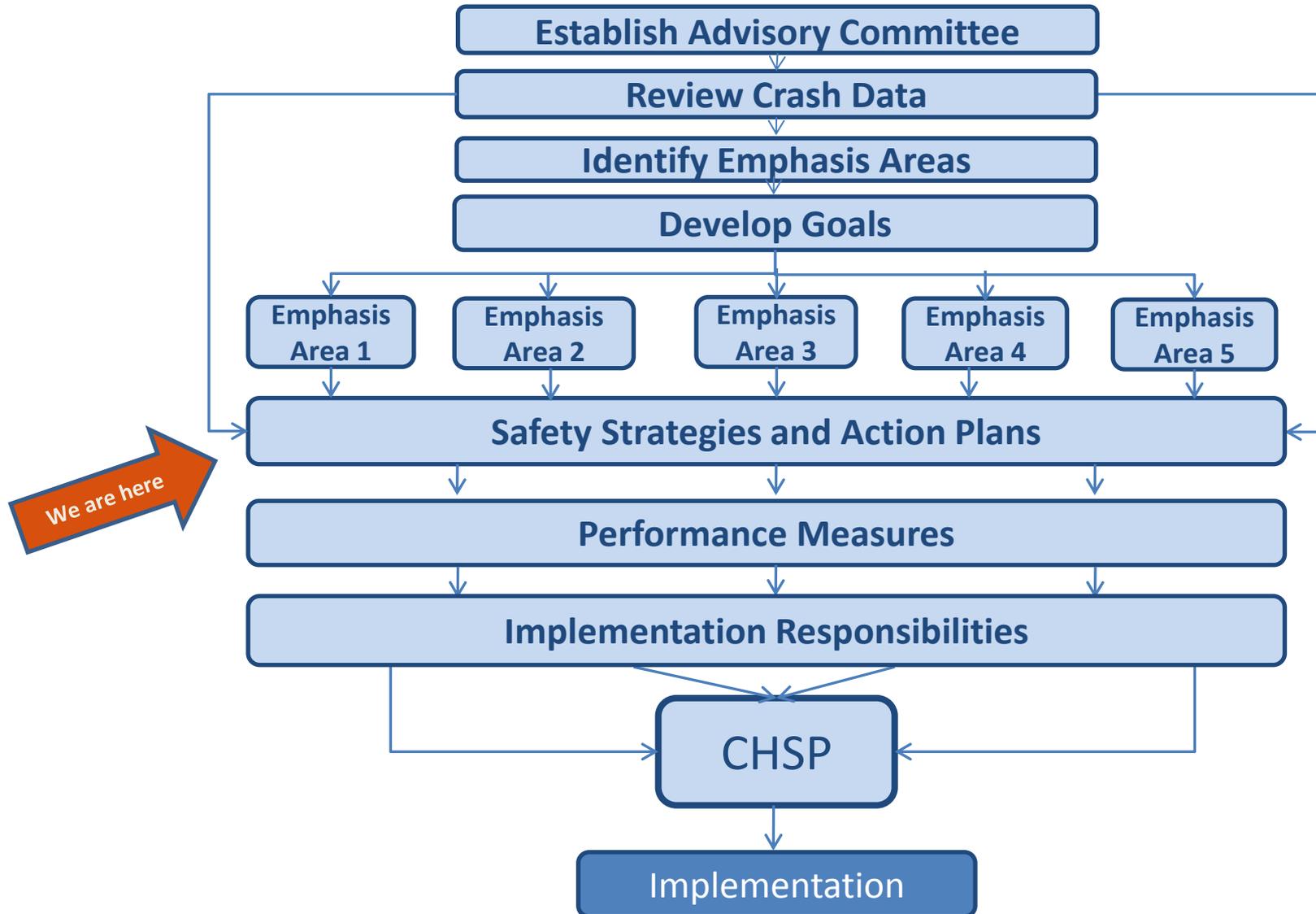
Data Driven



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.

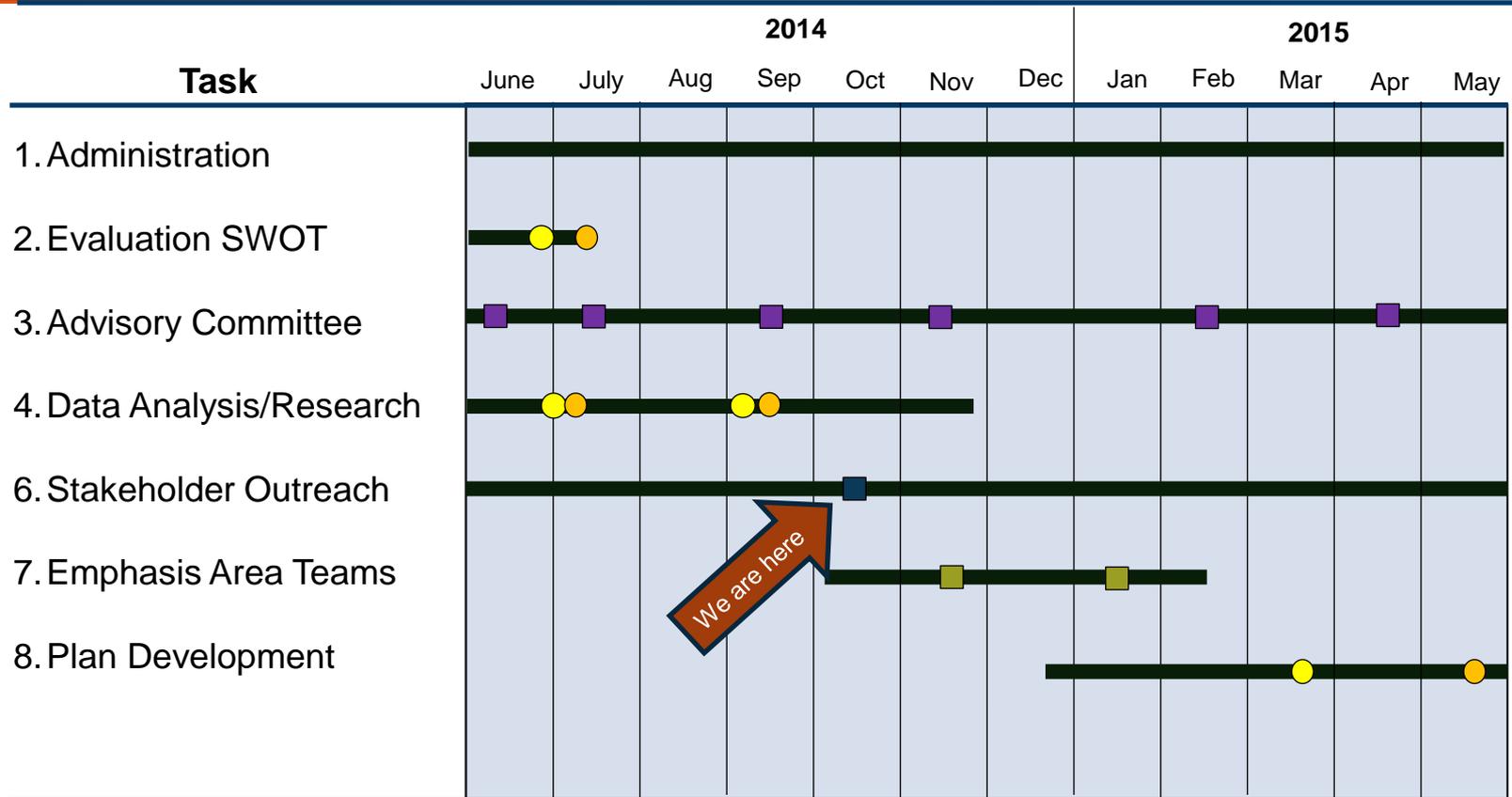
CHSP Planning Process



CHSP Goals

	2013	2020 Goal (annual)	Annual Reduction	% Reduction
Fatalities	231	174	-5	-2.6%
Serious Injuries	1,102	796	-32	-3.6%
Fatality Rate	1.92	1.29	-.06	-4.2%
Serious Injury Rate	9.2	5.9	-.37	-5.1%

Schedule



- Draft Deliverable ■ Advisory Committee Meeting
- Final Deliverable ■ Stakeholder Outreach Meeting
- Emphasis Area Team Meetings

We are here

Strategy and Action Step Development

- » **Summit (EA Team Meeting 1)**
 - **Develop strategies**

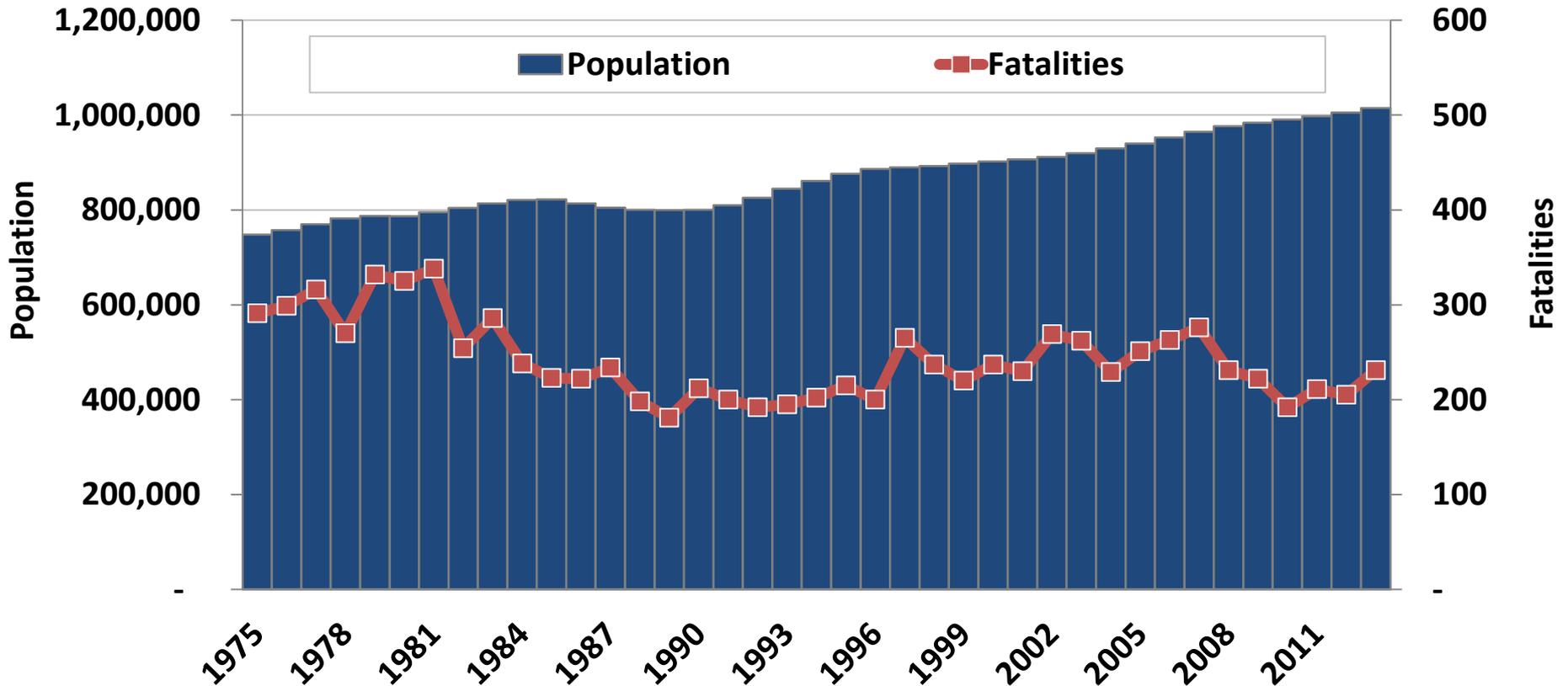
- » **EA Team Meetings 2 and 3**
 - **Action Steps**
 - **Lead Agencies**
 - **Resources**
 - **Performance Measures and targets**

Summit Objectives

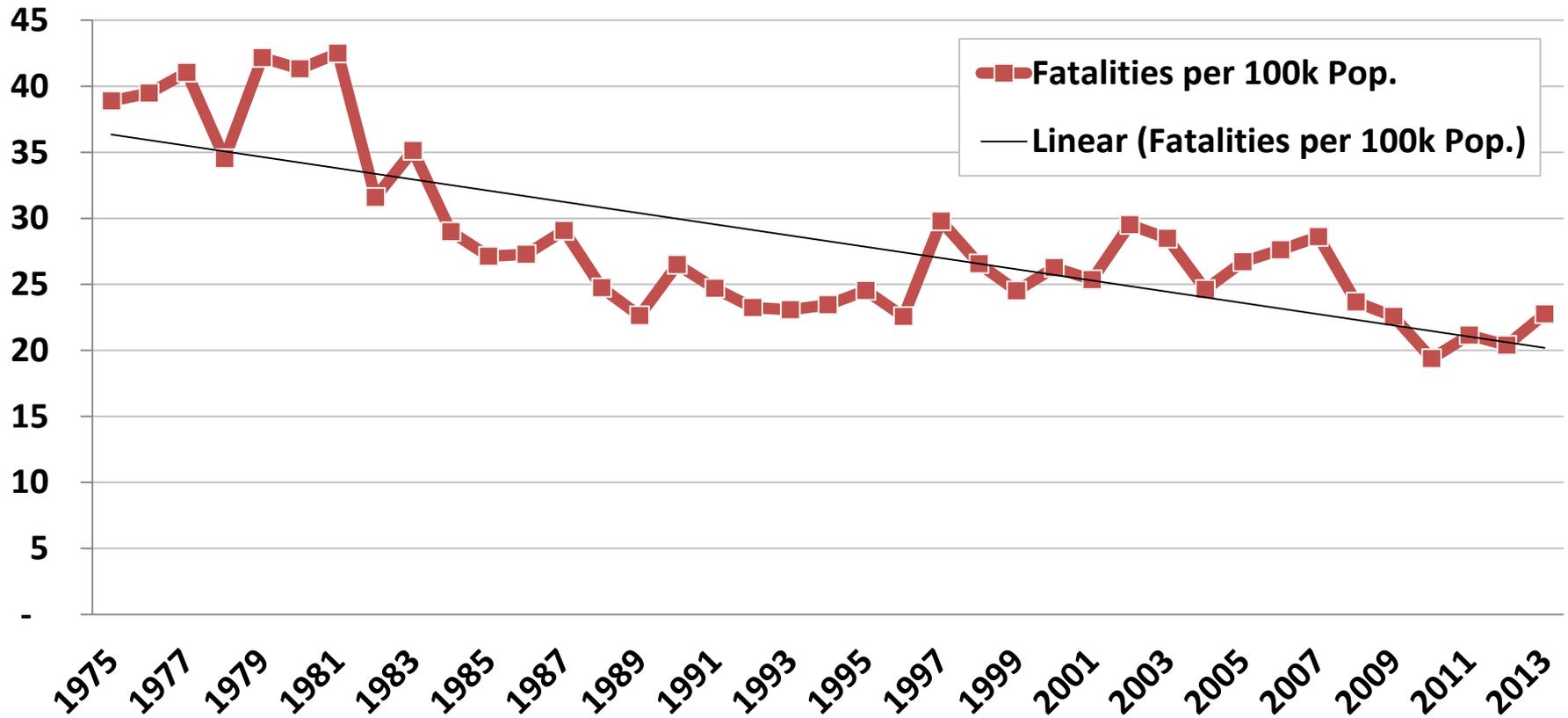
- » **Refocus on top problems**
- » **Think fresh about how to make progress**
- » **Conduct active discussions about strategies**
- » **Acknowledge challenges and develop solutions**
- » **Collaborate**
- » **Make data-driven decisions**
- » **Focus on proven effective strategies**

Crash Data Analysis

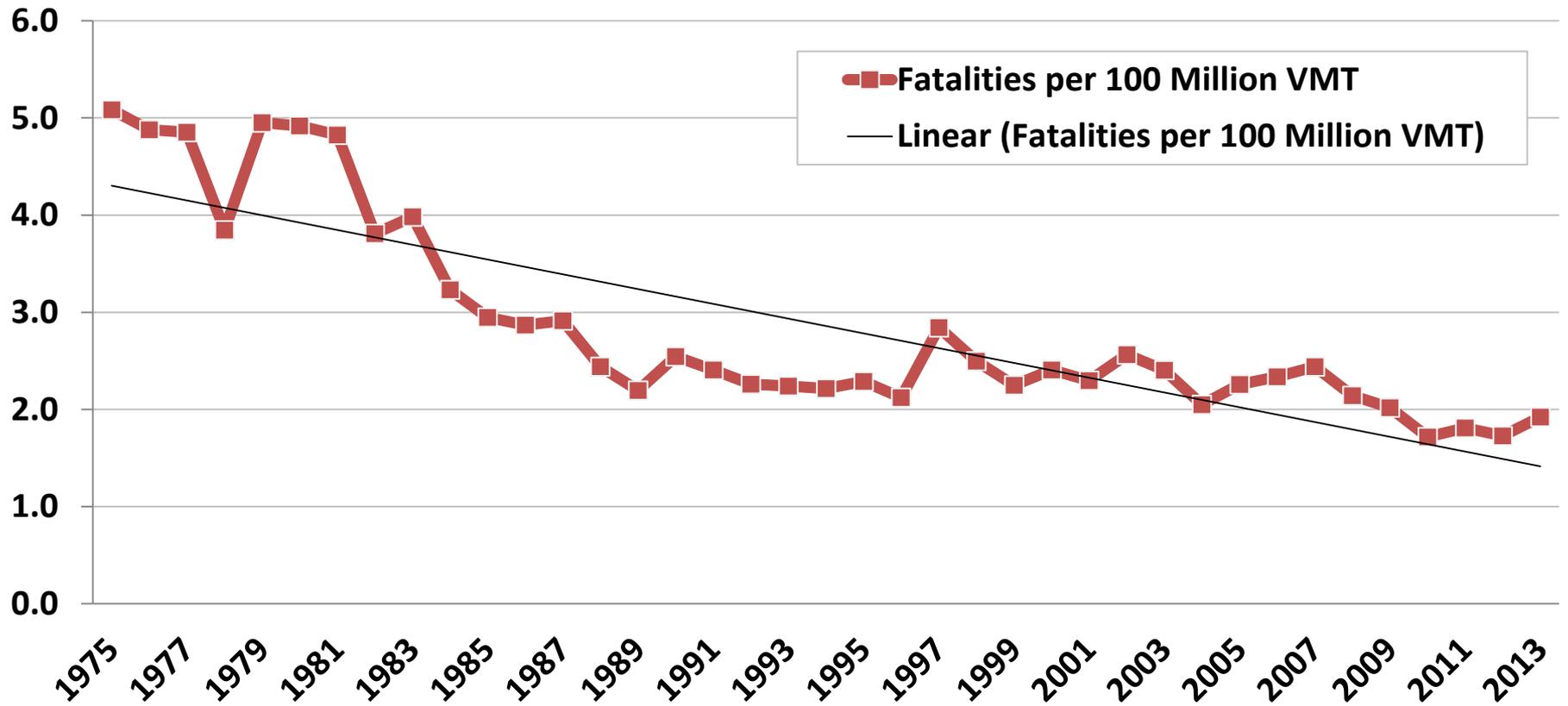
Fatalities vs. Population, 1975 - 2013



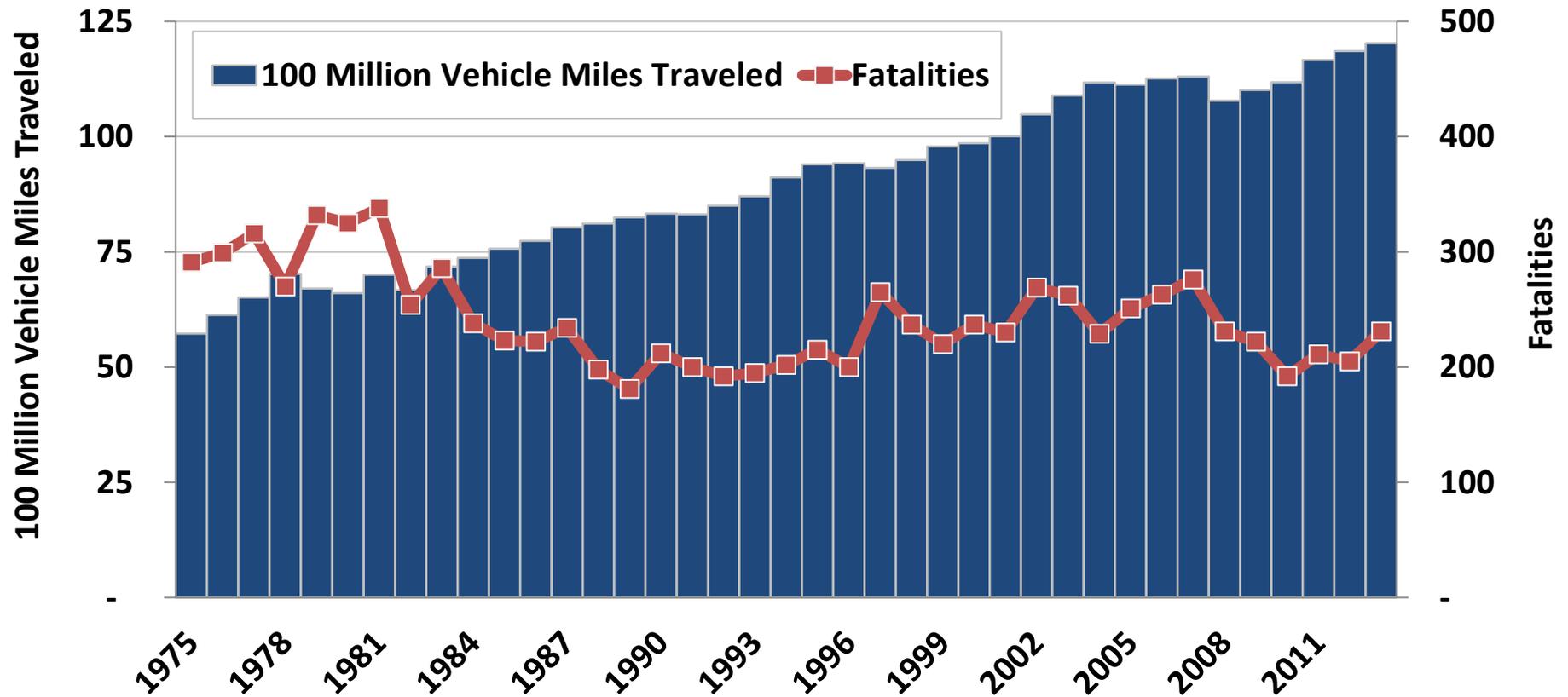
Fatalities per 100,000 Population, 1975-2013



Fatality Rate, 1975-2013

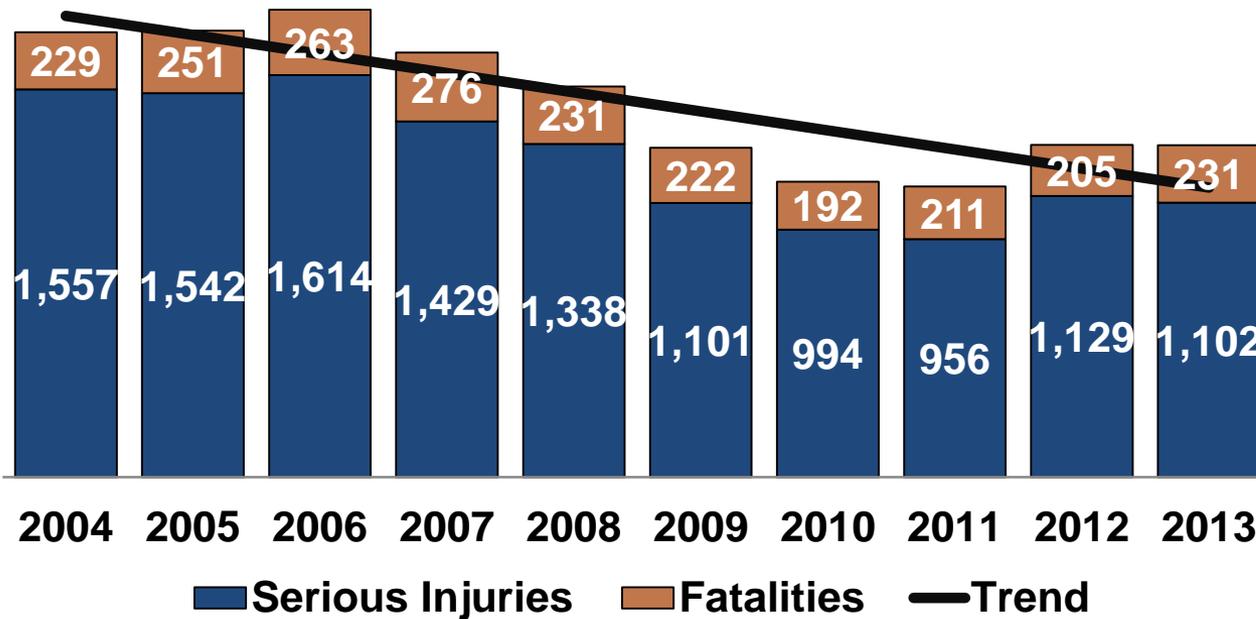


Fatalities vs. Vehicle Miles Traveled, 1975-2013

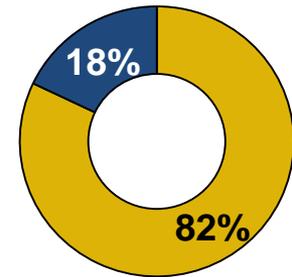


Statewide Crashes

- Problem Overview (2004 through 2013) -



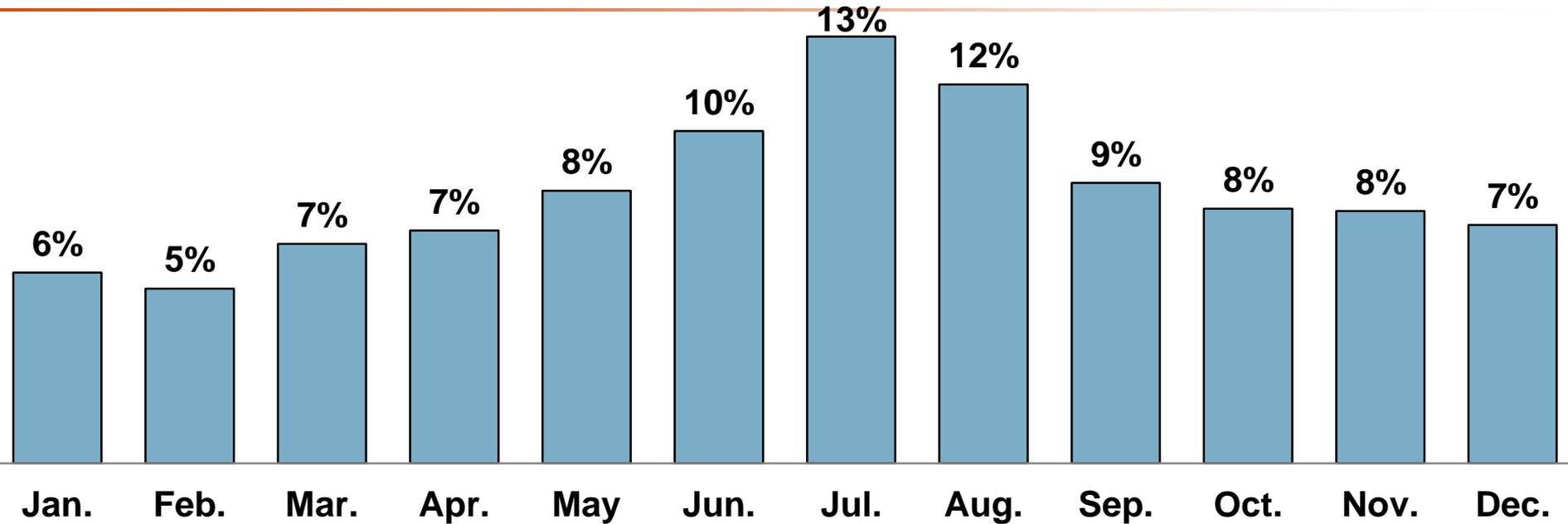
Urban and Rural Fatalities & Serious Injuries



■ Urban ■ Rural

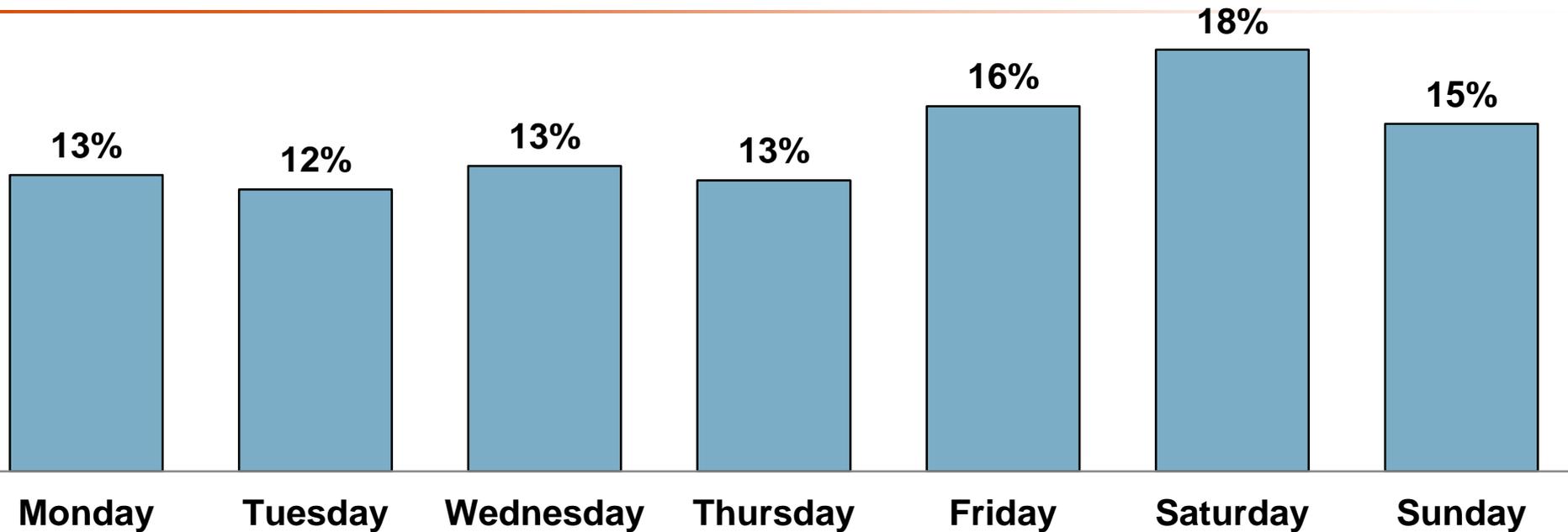
Statewide Crashes

- Fatalities and Serious Injuries by Month -



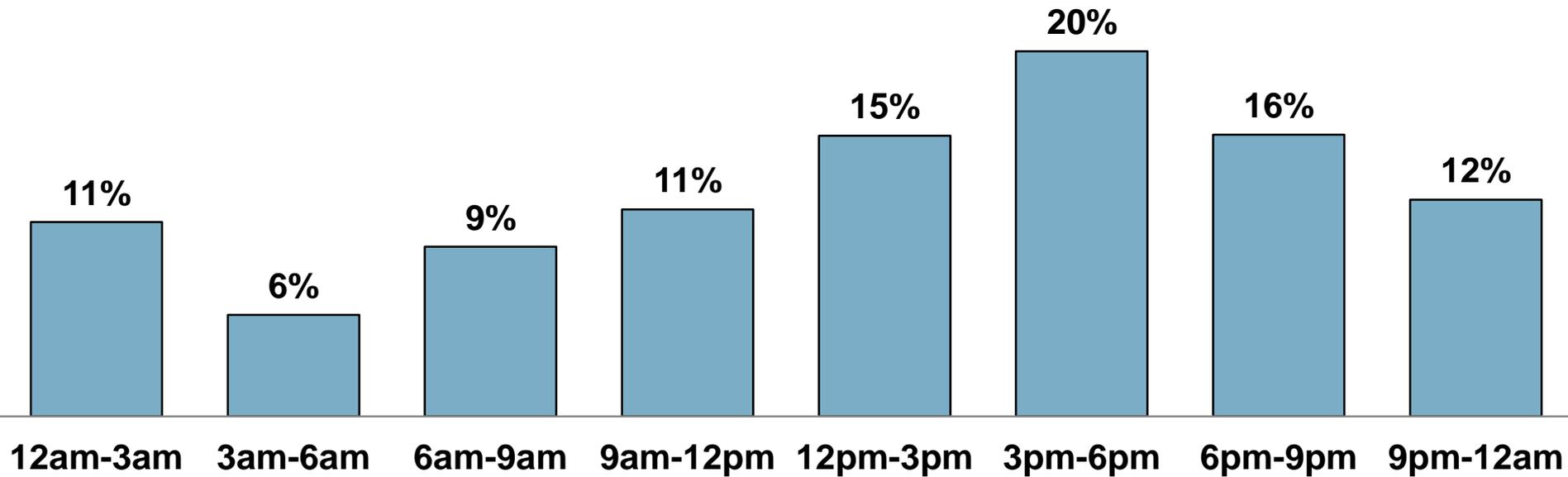
Statewide Crashes

- Fatalities and Serious Injuries by Day of Week -



Statewide Crashes

- Fatalities and Serious Injuries by Time of Day -



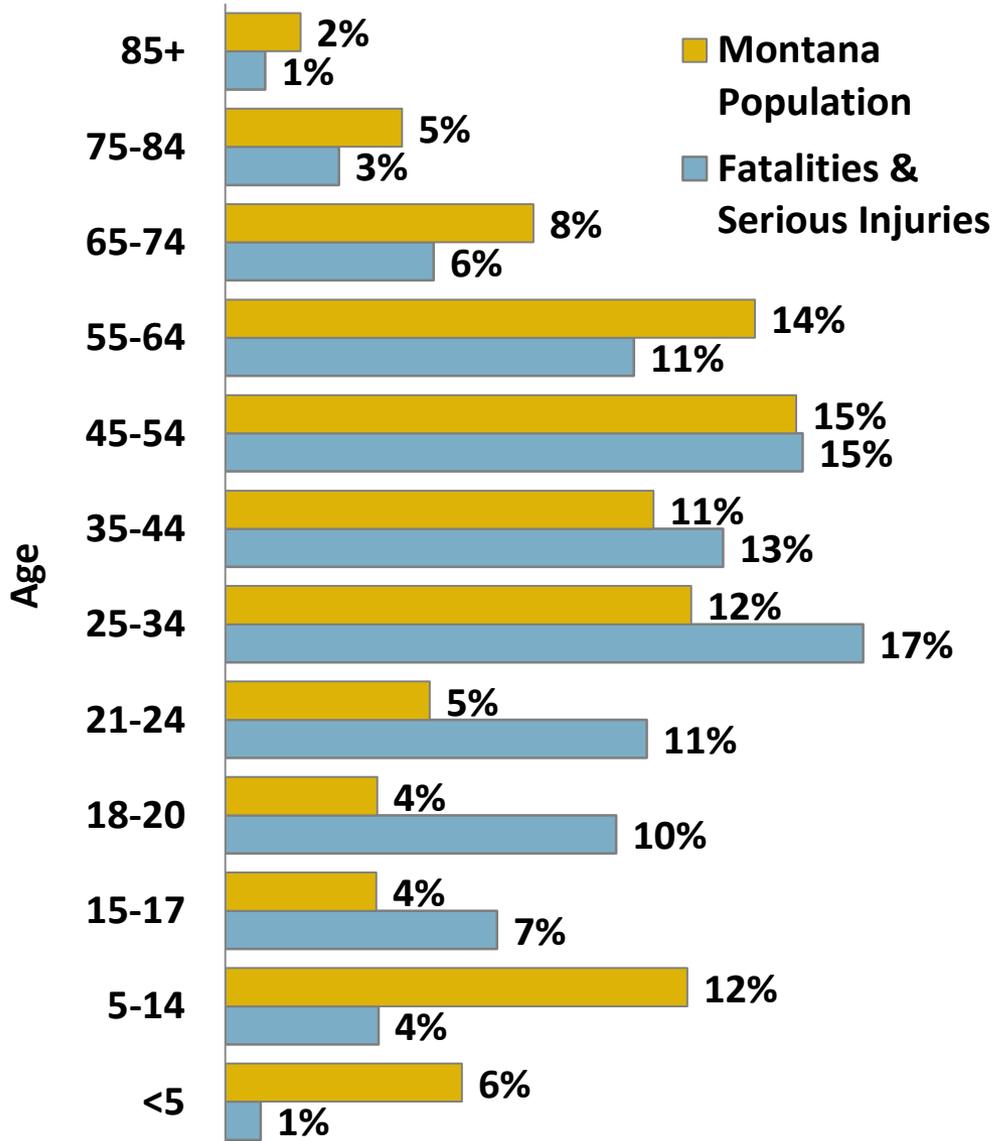
Statewide Crashes

- Fatalities and Serious Injuries by Time of Day and Day of Week -

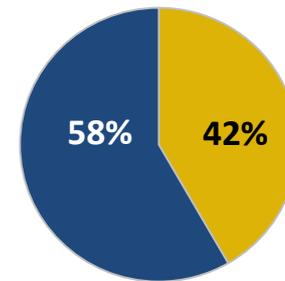
Time of Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
12am-3am	154	147	169	156	183	446	357
3am-6am	61	85	92	92	102	200	210
6am-9am	220	202	230	213	235	157	151
9am-12pm	250	244	263	205	225	299	231
12pm-3pm	323	260	297	308	382	402	357
3pm-6pm	423	464	375	423	488	441	415
6pm-9pm	312	276	329	287	378	434	322
9pm-12am	191	162	239	216	391	373	226

Statewide Crashes

- Fatalities and Serious Injuries by Age and Gender -



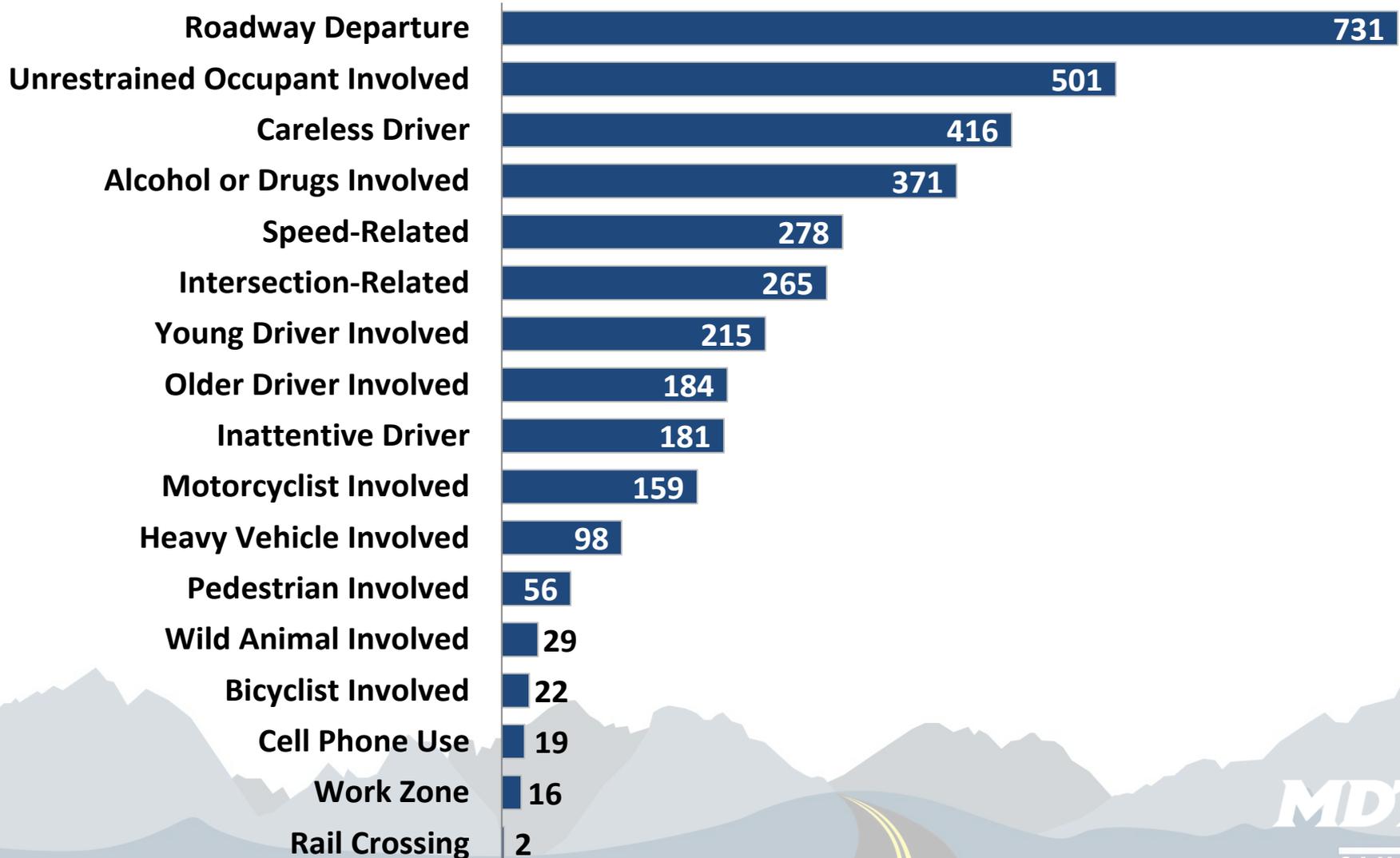
All People in Crashes



Male
Female

Emphasis Areas

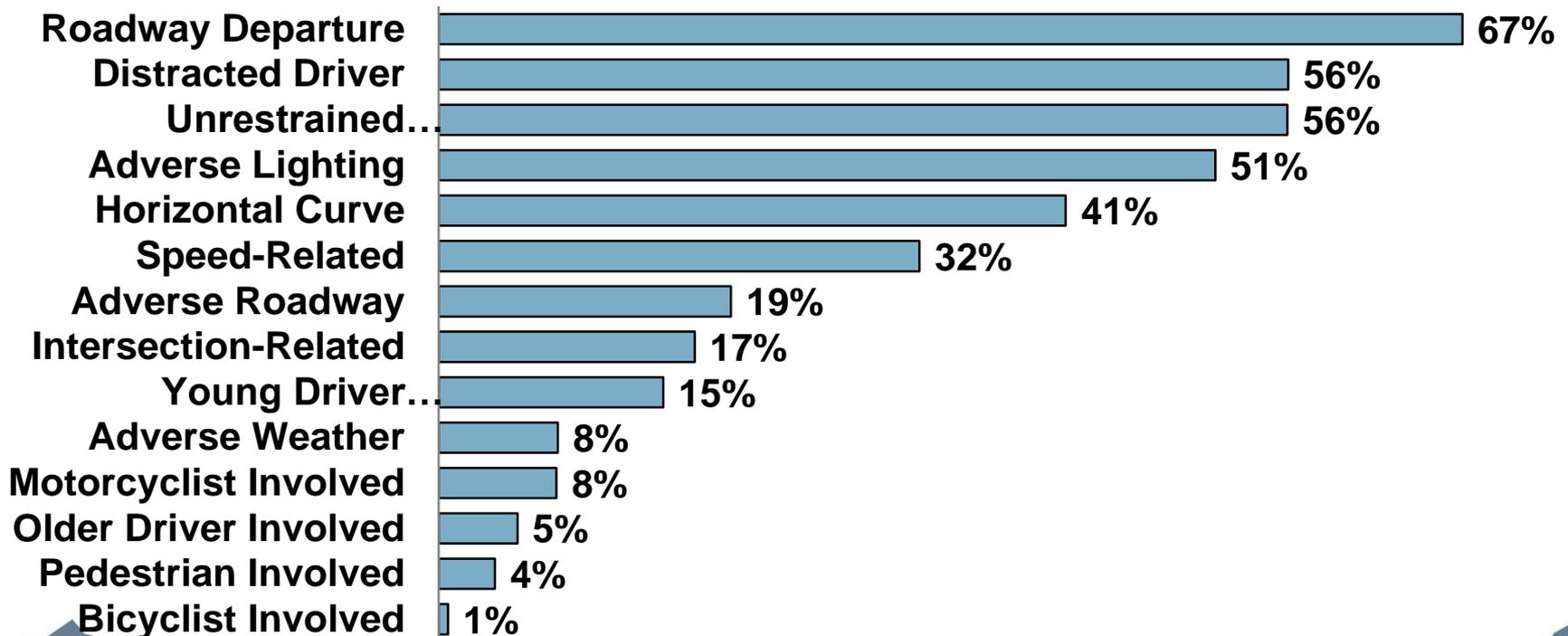
Average Annual Fatalities and Serious Injuries by Emphasis Area 2009-2013



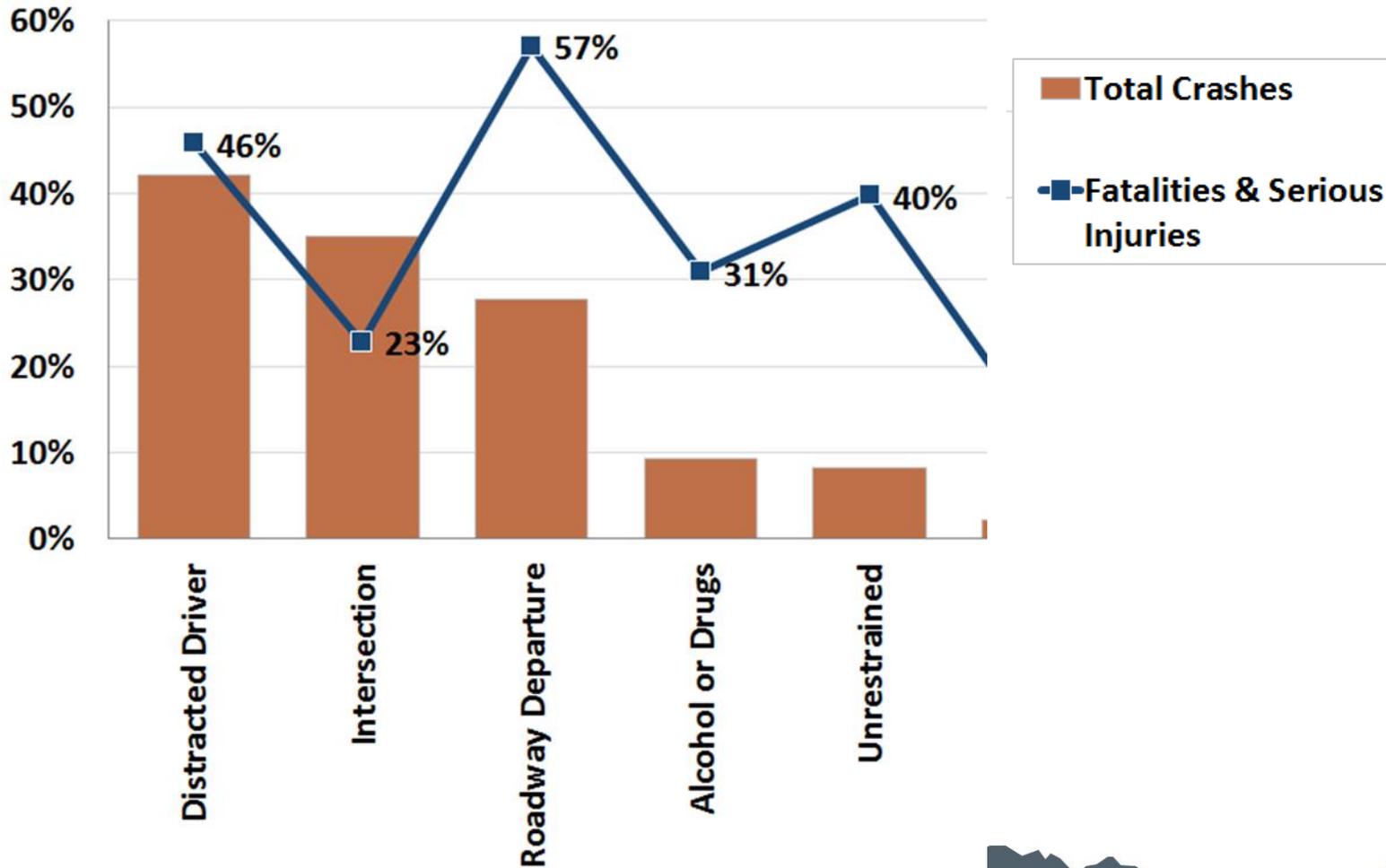
Consider Overlaps Among Emphasis Areas

Impaired Driving Crashes (Alcohol and/or Drugs)

- Fatalities and Serious Injuries by Top Behavioral and Environmental Risk Factors -



Emphasis Areas



Emphasis Area Coverage of Fatalities and Serious Injuries

- » 92 percent of all fatalities are accounted for by 5 emphasis areas
- » 91 percent of serious injuries are accounted for by 5 emphasis areas
- » This includes
 - 66 percent of pedestrian fatalities/63% of serious injuries
 - 84 percent of bicyclist fatalities/74% of serious injuries
 - 91 percent of motorcyclist fatalities/84% of motorcyclists

Emphasis Areas

» Driver Behavior

- Distracted Driver
- Impaired Driver
- Occupant Protection

» Safer Roadway and Roadside

- Intersection
- Roadway Departure