

# Helena TSAC Meeting #2

*presented to*

**Helena Transportation Safety Advisory Committee**

*presented by*

**Cambridge Systematics, Inc.**

**Audrey Wennink**

**March 20, 2013**

Transportation leadership you can trust.

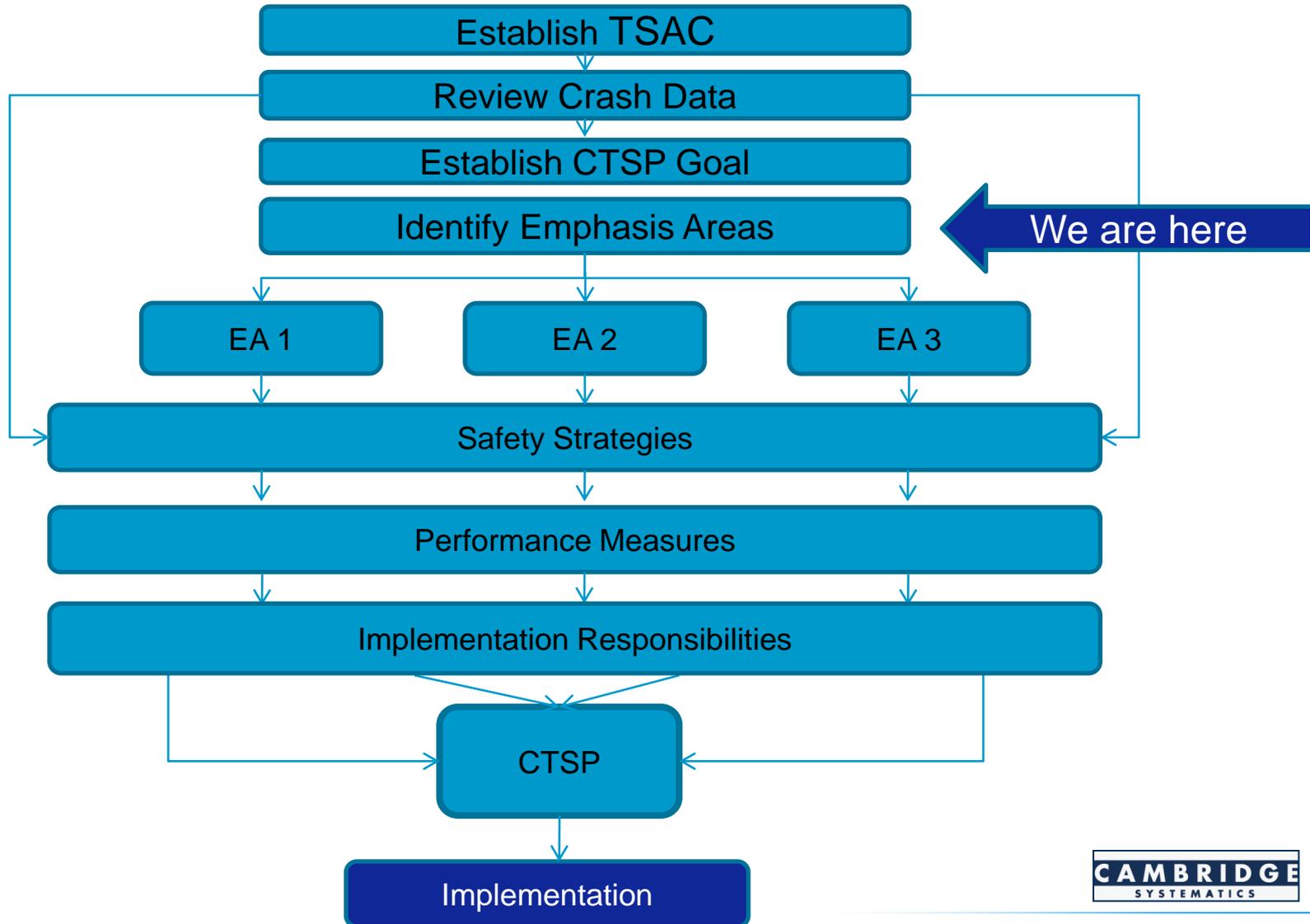


# Desired Meeting Outcomes

- **Emphasis Area Selection**
- **Summit Planning**
- **Next Meeting/ Assignments**



# Plan Development Process



# Work Plan and Timeline

<b>Kickoff Meeting and Establish Goal</b>	<b>February 20, 2013</b>
<b>Select Emphasis Areas</b>	<b>March 20</b>
<b>Identify Current Strategies</b>	<b>April 17</b>
<b>Safety Summit</b>	<b>May 14</b>
<b>Draft Plan</b>	<b>June 19</b>
<b>Final Plan/Approval</b>	<b>July 17</b>



# Vision of the Helena CTSP

*Greater Helena Area will have the safest motorized and non-motorized transportation system in Montana*

# Goal of the Helena CTSP

***Zero Fatalities***

***What interim goal do you want to set for 2018?***

# Helena Annual Averages

## Urban Area Annual Crashes (2007-2011)

Fatal Crashes	Incapacitating Injury Crashes	Non-Severe Injury Crashes	Property Damage Only Crashes	Total Crashes
5	21	298	991	1315

## Urban Area Annual Fatalities/Injuries (2007-2011)

Fatalities	Incapacitating Injuries	Non-Severe Injuries
6	24	367

Source: MDT-Safety Management System, 2013

# Interim Goal

- **Reduce crashes in Helena by 25 percent by 2018**

# **Potential Emphasis Areas**

# What is an “Emphasis Area?”

- **A priority safety issue for Helena based on crash data and community input**
- **A safety issue for which community focus and resources will be applied with the intention of improving transportation safety and achieving the goal(s) of the CTSP**
- **Emphasis Areas can change over time – to reflect progress and changing conditions or needs**

# Selection of Emphasis Areas

- **Impact** – Where can we have the biggest impact? Will strategies in this area significantly reduce the number of fatalities and serious injuries?
- **Data Availability** – Are there enough reliable data available to accurately identify, prioritize, and articulate the problem?
- **Cost** – Is the cost to implement effective strategies in this area prohibitive? Do we have the resources needed to address the problem?

# Selection of Emphasis Areas

## *Consider . . .*

- **Loss of Life** – What is the extent of loss of life related to this Emphasis Area?
- **Serious Injuries** – What is the extent of serious injuries related to this Emphasis Area?
- Where have there been **significant increases** in the last several years?
- Where has the level of fatalities and injuries reached a **plateau**?

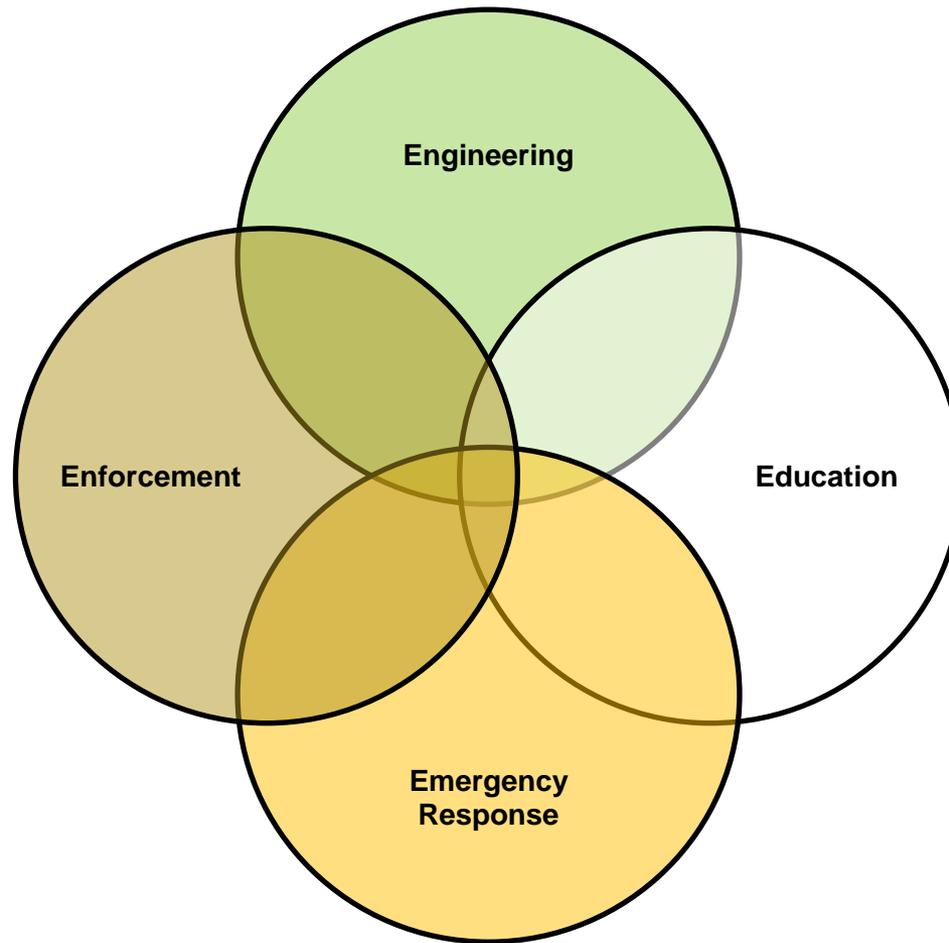
# Selection of Emphasis Areas

## ● Feasibility

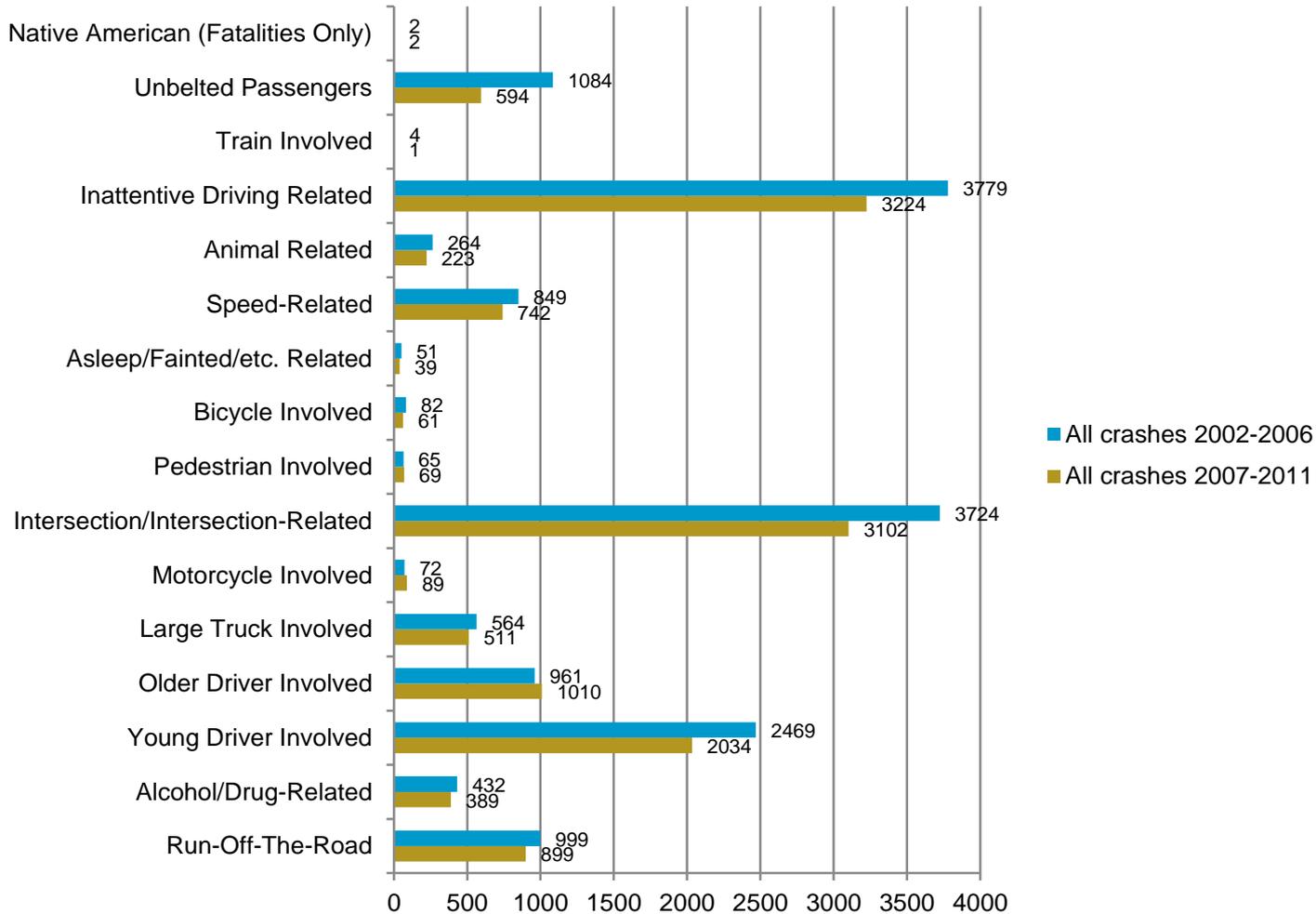
- » What can realistically be accomplished over the next 3 to 5 years?
- » Are there enough resources and tools?
- » Will the TSAC have stakeholder support?
- » Do safety stakeholders have the necessary technical expertise?
- » Will there be public support?



# “ The 4 E’s of Safety”



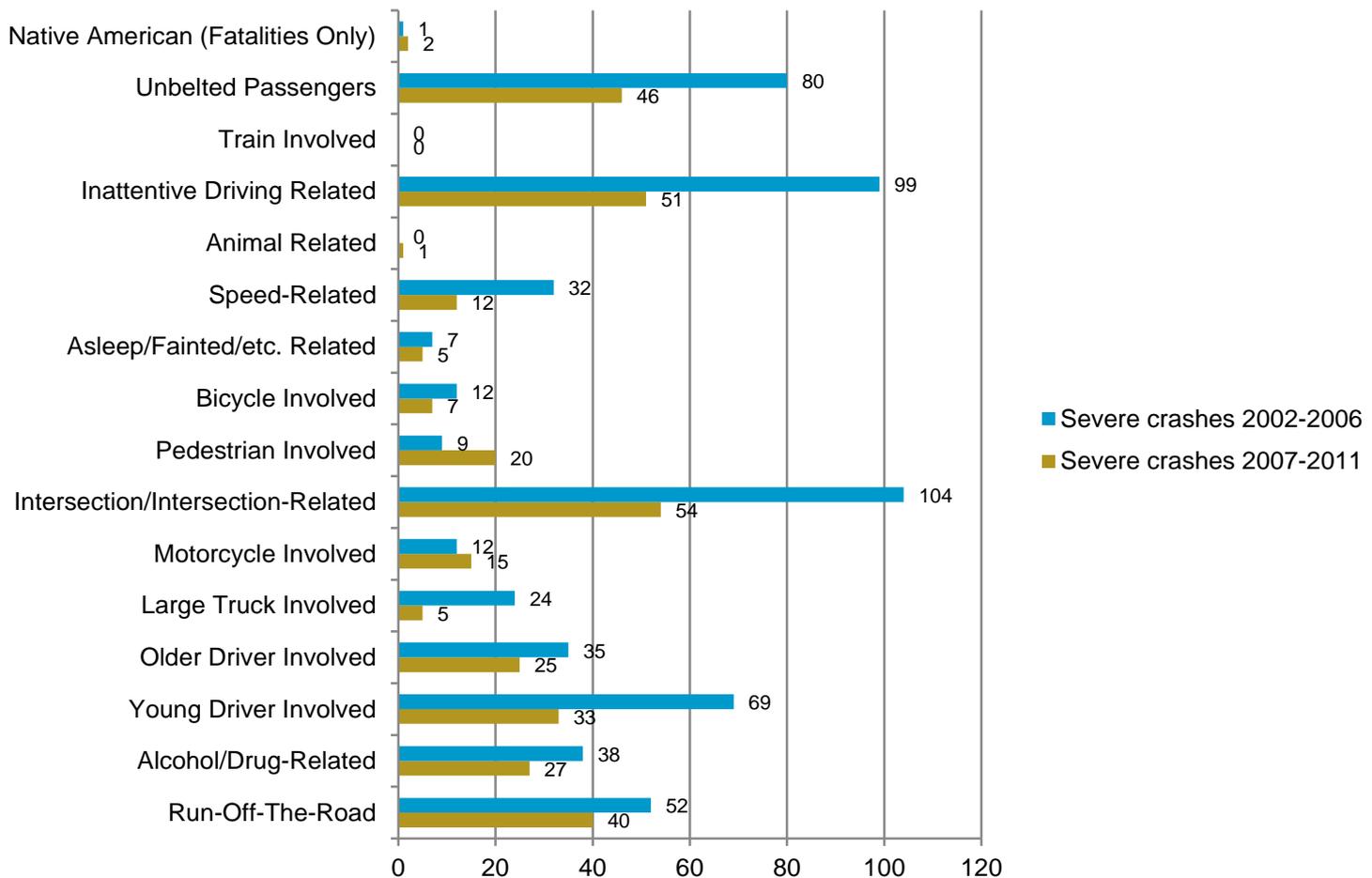
# Helena - All Crashes by Emphasis Area



Note: Unbelted and Native American data represent number of people, not crashes

Source: MDT-Safety Management System, 2013

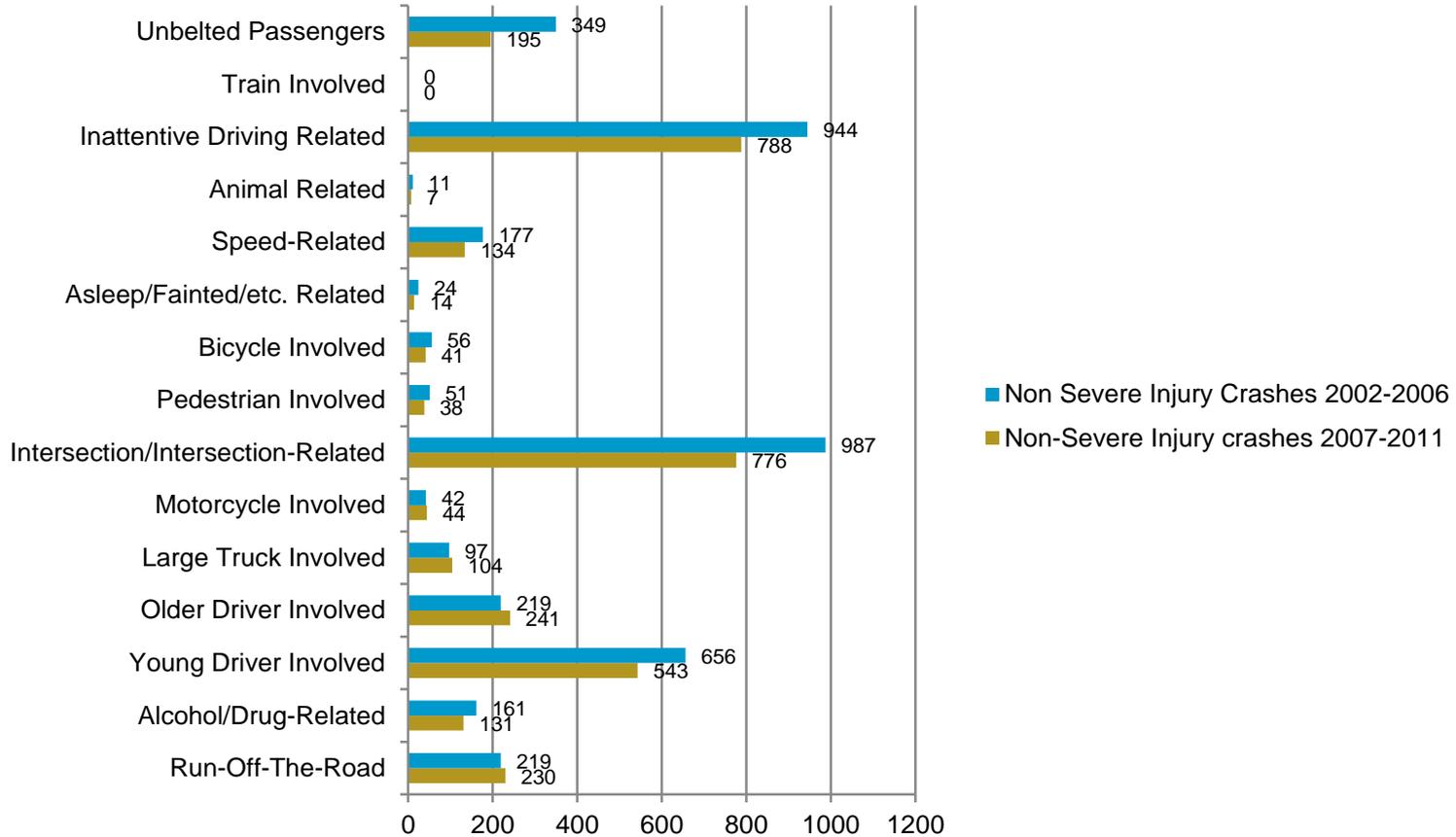
# Helena – Fatal & Incapacitating Crashes by Emphasis Area



Note: Unbelted and Native American data represent number of people, not crashes

Source: MDT-Safety Management System, 2012

# Helena - Non-Severe Injury Crashes by Emphasis Area



Note: Unbelted and Native American data represent number of people, not crashes

Source: MDT-Safety Management System, 2012

# Potential Emphasis Area

## Roadway Departure

- **Of the 129 fatal & incapacitating injury crashes that occurred in Helena from 2007 to 2011, 40 (31%) involved a roadway departure**

# Potential Emphasis Area

## Roadway Departure

- **Factors involved:**
  - » speed
  - » disregarding traffic signs or signals
  - » inattentive driving
  - » alcohol
- **Few roadway departure fatal & incapacitating crashes in snow (1 of 41); 6% of all injuries occurred during snow**
- **41% of fatal & incapacitating roadway departure crashes and 27% of all injury crashes involved alcohol and/or drugs**
- **More than 43% of fatal & incapacitating injury roadway departure victims were not belted; 20% of all injury crash victims were unbelted**
- **Majority of roadway departure crashes are on local /county roads; 8% on Interstate roads**
- **42% of roadway departure injury crashes involve young drivers (24 years old or younger)**

# Potential Emphasis Area

## Young Drivers (17-24)

- **Of the 129 fatal & incapacitating injury crashes that occurred in Helena from 2007 to 2011, 33 (26%) involved a young driver**

# Potential Emphasis Area

## Young Drivers (17-24)

- Among young drivers, ages 21-24 experienced the most severe injury crashes
- 23% of fatal & incapacitated young driver occupants were unbelted
- 5% of young driver injury crashes involved alcohol or drugs
- Young Driver crash factors:
  - » Alcohol
  - » Careless/inattentive driving,
  - » Failed to yield
  - » Disregarded traffic signals and signs
  - » Following too closely
  - » Speed

# Potential Emphasis Area

## Intersections

- **Of the 129 fatal & incapacitating injury crashes that occurred in Helena from 2007 to 2011, 54 (42%) occurred at an intersection or were intersection-related**

# Potential Emphasis Area

## Intersections

- **Intersection fatal & incapacitating crashes:**
  - » 24% at non-signalized intersections
  - » 50% at stop signs
- **Intersection injury crashes:**
  - » 37% at uncontrolled intersections
  - » 32% at signals
  - » 23% at stop signs
- **22% of fatal & incapacitating crashes at intersections involve ages 15-24;**
- **25% of fatal & incapacitating crashes at intersections involve ages 45-54**
- **27% of all injury crashes at intersections involve young drivers (age 15-24)**



# Potential Emphasis Area

## Bicycles

- **Of the 129 fatal & incapacitating injury crashes that occurred in Helena from 2007 to 2011, 7 (5%) involved a bicyclist**

# Potential Emphasis Area

## Bicycles

- **Most crashes occur in clear conditions and in daylight**
- **Most fatal & incapacitating injury crashes occurred at intersections or were intersection related (71%)**
- **Largest age group for severe injury bicycle crashes was 5-14 years for bicyclists**
- **Age for all injury crashes for bicyclists was evenly distributed across age groups**
- **Male bicyclists were involved in 83% of all injury crashes**

# Potential Emphasis Area

## Pedestrians

- **Of the 129 fatal & incapacitating injury crashes that occurred in Helena from 2007 to 2011, 20 (16%) involved a pedestrian**

# Potential Emphasis Area

## Pedestrians

- **62% of all pedestrian injury crashes occur in daylight**
- **65% of fatal & incapacitating pedestrian injury crashes are along roadways and not at intersections**
- **50% of all pedestrian injury crashes are non-junction related**
- **Age group of 25-34 years has the greatest number of fatal/incapacitating pedestrian injuries (33%)**
- **No specific age group appears to have the most pedestrian injuries (severe + non-severe)**

# Potential Emphasis Area

## Inattentive

- **Of the 129 fatal & incapacitating injury crashes that occurred in Helena from 2007 to 2011, 51 (40%) involved inattentive driving**

# Potential Emphasis Area

## Inattentive

- **Most inattentive fatal & incapacitating crashes on Non-Interstate NHS (15) and State Urban (17) roads**
- **Most inattentive injury crashes on State Urban roads (31%)**
- **Largest age groups for inattentive fatal & incapacitating injury crashes:**
  - » 19-24 (19)
  - » 45-64 (21)
- **No specific age group shows substantially higher share for inattentive all injury crashes**
- **Slightly more females involved in inattentive injury crashes**

# Potential Emphasis Area

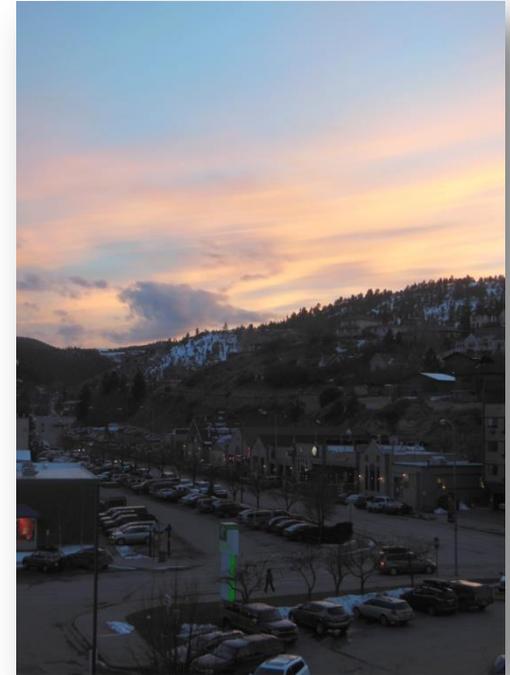
## Occupant Protection

- **Age 15-18 largest age group of unbelted injuries**
- **52% of fatal & incapacitated unbelted victims were male**
  - » slight majority of all unbelted injuries (52%) involved females



# Emphasis Area Voting

- **Each person gets 10 sticker “dots”**
- **Use them to select your preferred Emphasis Areas for the Helena area, based on data presented**
- **You can put them all on one area or across multiple areas**
- **The goal is to select around 3 Emphasis Areas as the initial focus of the CTSP**

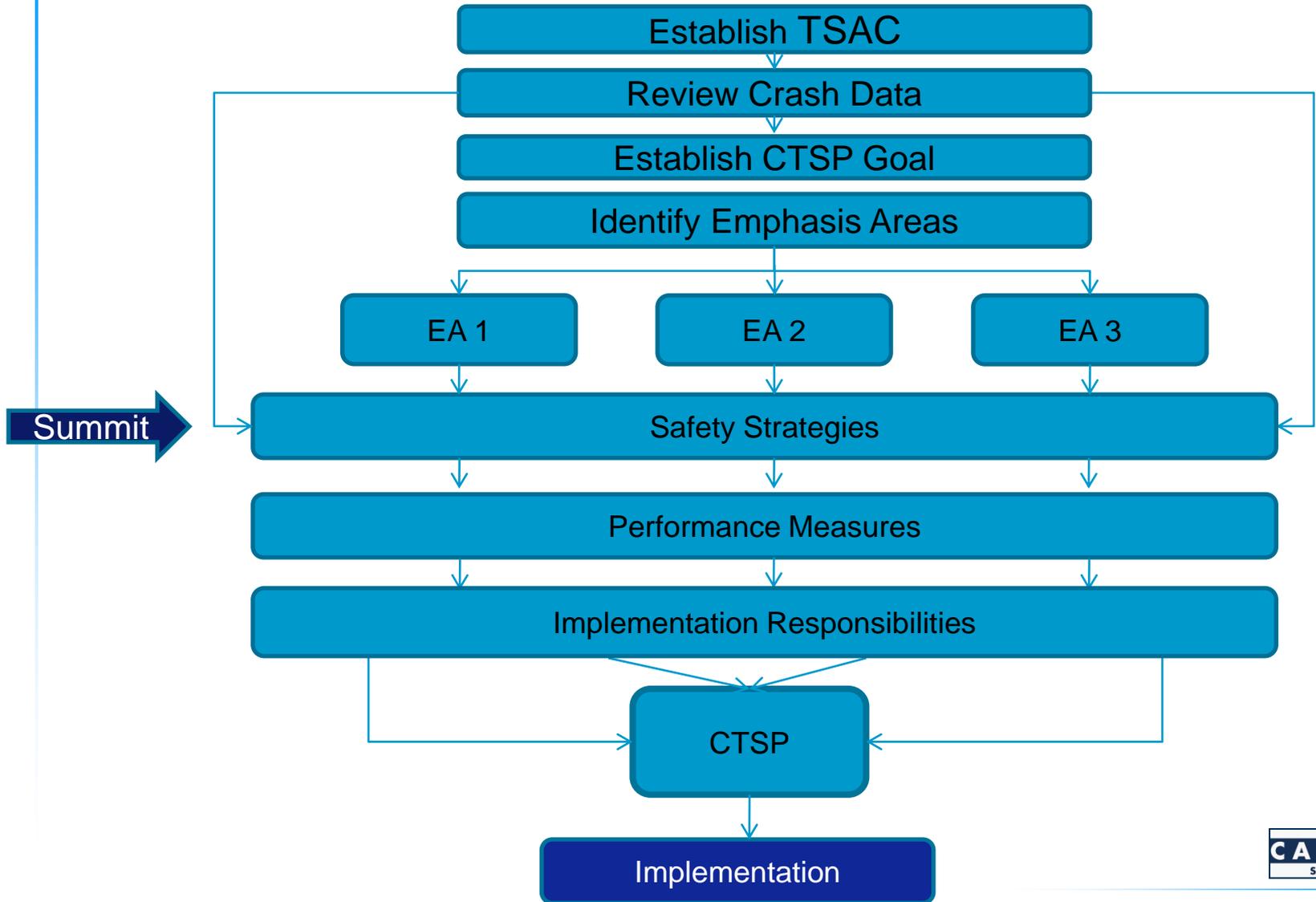


# Summary of Emphasis Area Voting Results

- **Intersection - 27**
- **Inattentive - 26**
- **Alcohol/Drug - 25**
- **Speed - 25**
- **Unbelted - 22**
- **Pedestrian - 16**
- **Young Driver - 11**

# Next Steps

# Plan Development Process



# Safety Summit

- **Date: Tuesday, May 14 – 6-9 pm**
- **Location: Civic Center**



# Next Meeting

- **Define current safety activities in Emphasis Areas**
- **Safety Summit**
  - » **Determine how to promote Safety Summit**
  - » **Determine groups/individuals to invite to Safety Summit**
- **Homework:**
  - » **What safety programs are currently in place?**
  - » **What more should or could be done?**

# **Open Discussion**