# Meeting the Highway Safety Challenge through Innovation

Nebraska Highway Safety Conference March 21, 2017

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#### Federal Highway Administration

#### Who We Are:

 The Federal Highway Administration (FHWA) is an agency within the U.S. Department of Transportation

#### Our Mission:

 To support State and local governments in the design, construction and maintenance of the Nation's highway system

#### Our Vision:

 To ensure that America's roads and highways continue to be among the safest and most technologically sound in the world

# Highway Safety Improvement Program (HSIP)

- Purpose of HSIP is to significantly reduce fatalities and serious injuries
- HSIP is implemented by NDOR in partnership with FHWA
- Strategic Highway Safety Plan (SHSP) is a requirement of the HSIP
- While the HSIP focuses on safety, all roadway construction projects are safety projects

#### Nebraska 2017-2021 SHSP

- FHWA's program focus is primarily on the infrastructure critical emphasis areas (CEAs) of the SHSP
- Infrastructure CEAs
  - Reducing Roadway Departure Crashes
  - Reducing Intersection Crashes
- Using innovation to address the infrastructure CEAs
  - During an American Association of State Highway and Transportation Officials (AASHTO) briefing on March 1<sup>st</sup>, U.S. DOT Secretary Chao mentioned the importance of continuing the development of new technologies with potential safety benefits

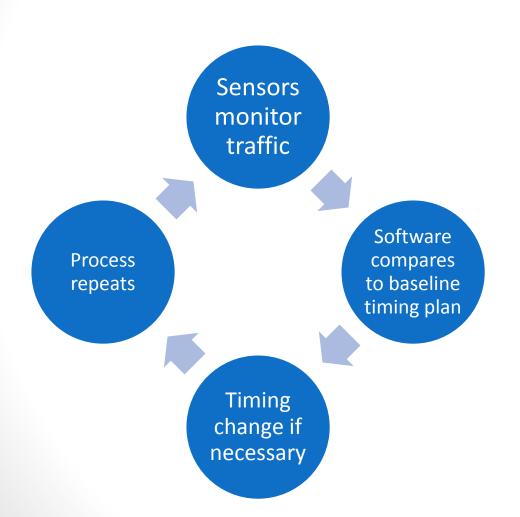
### **Every Day Counts (EDC)**

- In 2009, the FHWA launched the EDC initiative in cooperation with AASHTO
  - The objective of EDC is to rapidly deploy proven but underutilized innovations to enhance roadway safety as well as other priorities
  - Many of the innovations were developed through the Second Strategic Highway Research Program (SHRP 2)
- NDOR and FHWA, Nebraska have partnered in several EDC/SHRP 2 safety innovation initiatives

## The Safety Edge

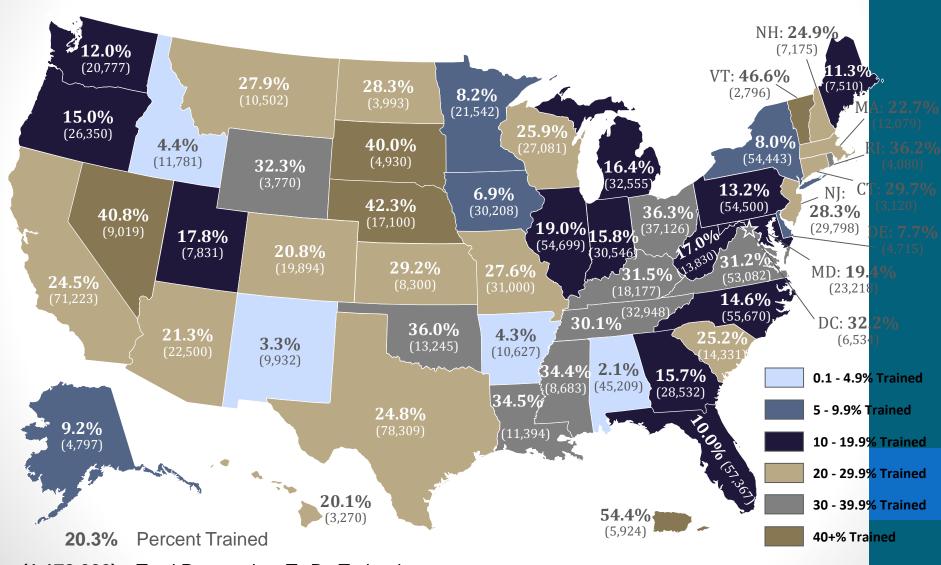


#### Adaptive Signal Control Technology





#### National Traffic Incident Management Responder Training

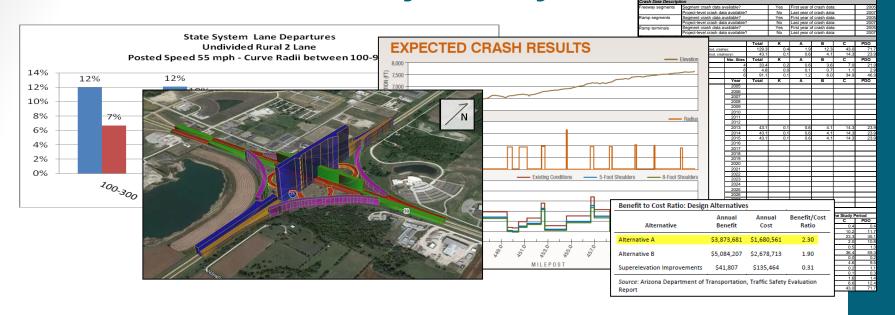


(1,178,022) Total Responders To Be Trained

## **High Friction Surface Treatments**



#### Data-Driven Safety Analysis



More Informed Decision Making

Better Targeted Investments Fewer
Fatalities &
Serious
Injuries

#### Road Diets (Roadway Reconfiguration)





#### What's Ahead?

- Continue Data-Driven Safety Analysis
- Using Data to Improve Traffic Incident Management

## FHWA Safety Resources

- One-stop gateway to a wide variety of safety information on the FHWA web page at <a href="https://safety.fhwa.dot.gov/">https://safety.fhwa.dot.gov/</a>:
  - Highway Safety Improvement Program
  - Intersection Safety
  - Roadway Departure Safety
  - Roadway Safety Data and Analysis
  - Pedestrian and Bicycle Safety
  - Local and Rural Road Safety

# Questions?