



Overview & Objectives

Why focus on roadway departure (RwD) in tribal areas?

What we'll discuss today:

Understanding RwD risks

Empowering Tribal leadership Data-driven hazard identification

Low-cost, highimpact solutions

Implementation & partnerships

ROADWAY DEPARTURE CRASHES 1-2-3

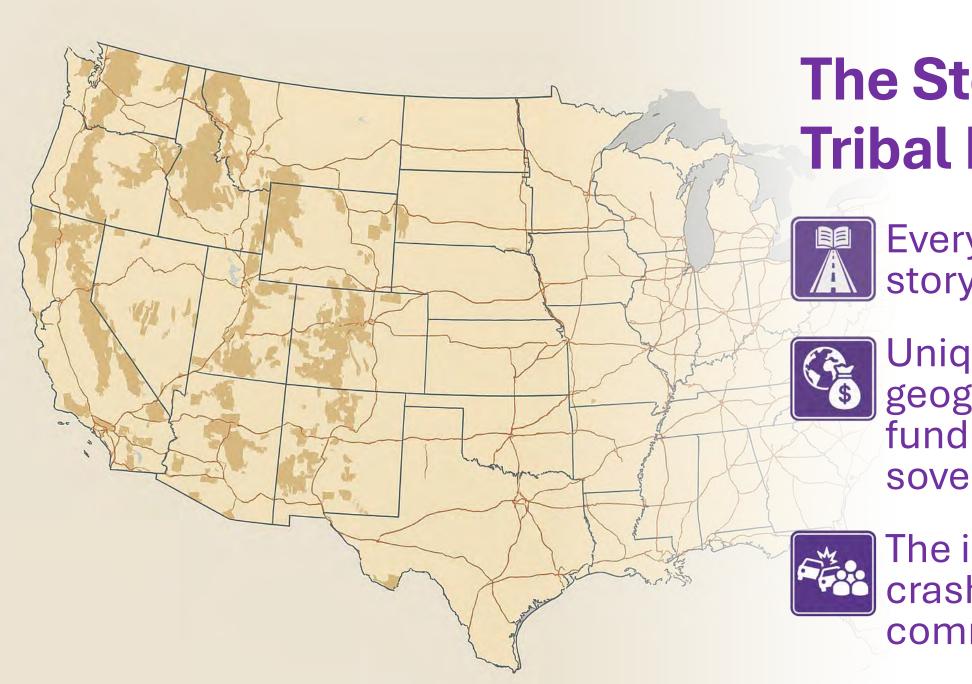




2. CROSSES
2. EDGE OF
TRAVEL LANE
OR
CENTERLINE



3. ANOTHER VEHICLE, FIXED ORJECT, OR ROLLS OVER



The Story of **Tribal Roads**

Every mile tells a story

Unique challenges: geography, funding, sovereignty

The impact of RwD crashes on Tribal communities

ROADWAY DEPARTURES

DEFINITION: When a vehicle leaves the traveled way (edge line, centerline, or both)

COMMON CRASH TYPES:



WHY IT MATTERS: Over half of US traffic fatalities are RwD-related



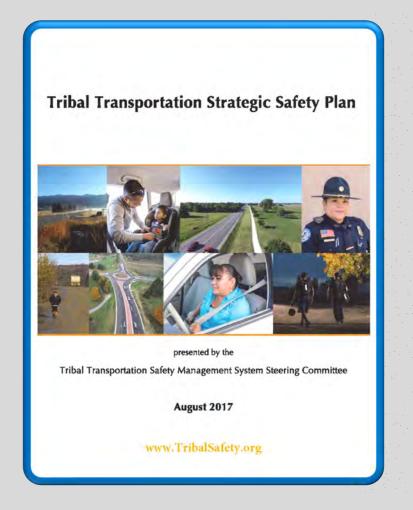
RwD accounts for a disproportionate share of tribal road fatalities

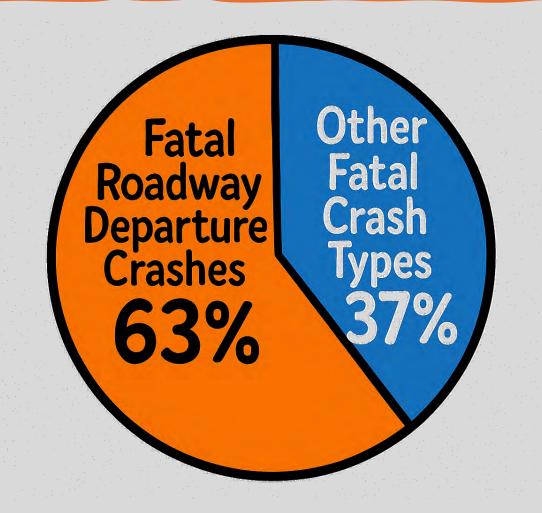


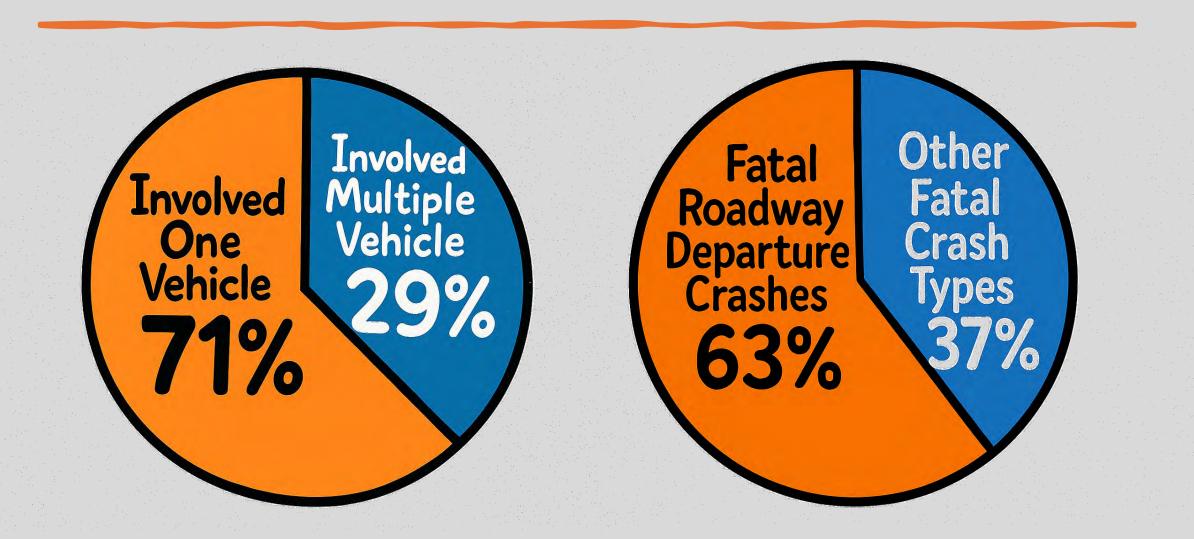
Contributing
Factors:
Rural roads, curves,
speed, limited lighting
roadside hazards

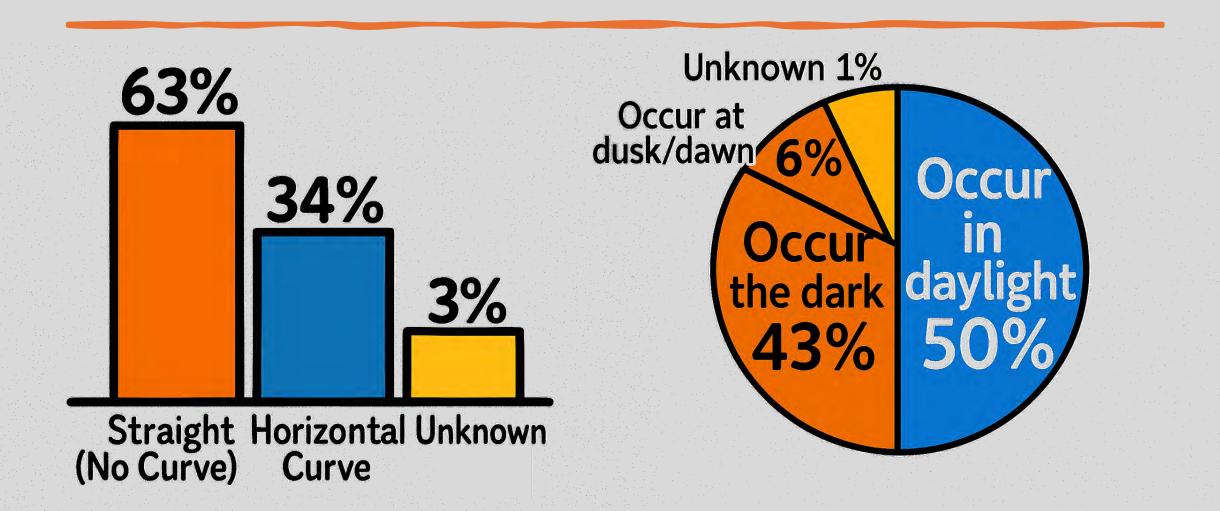


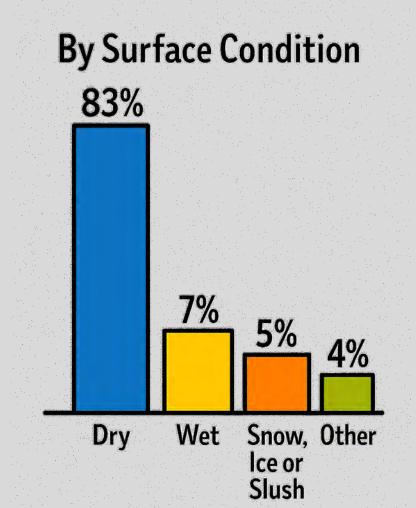
Data Limitations:
Underreporting,
lack of
geocoding

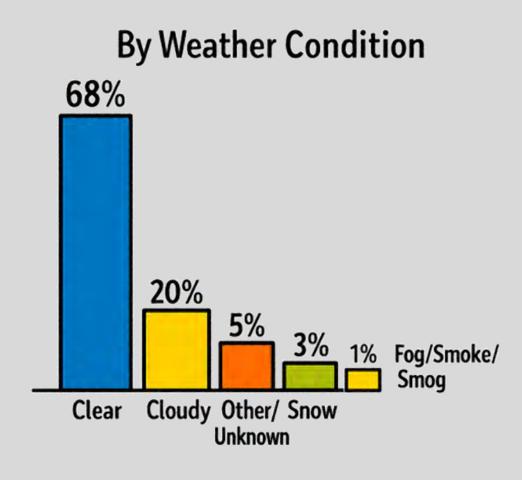


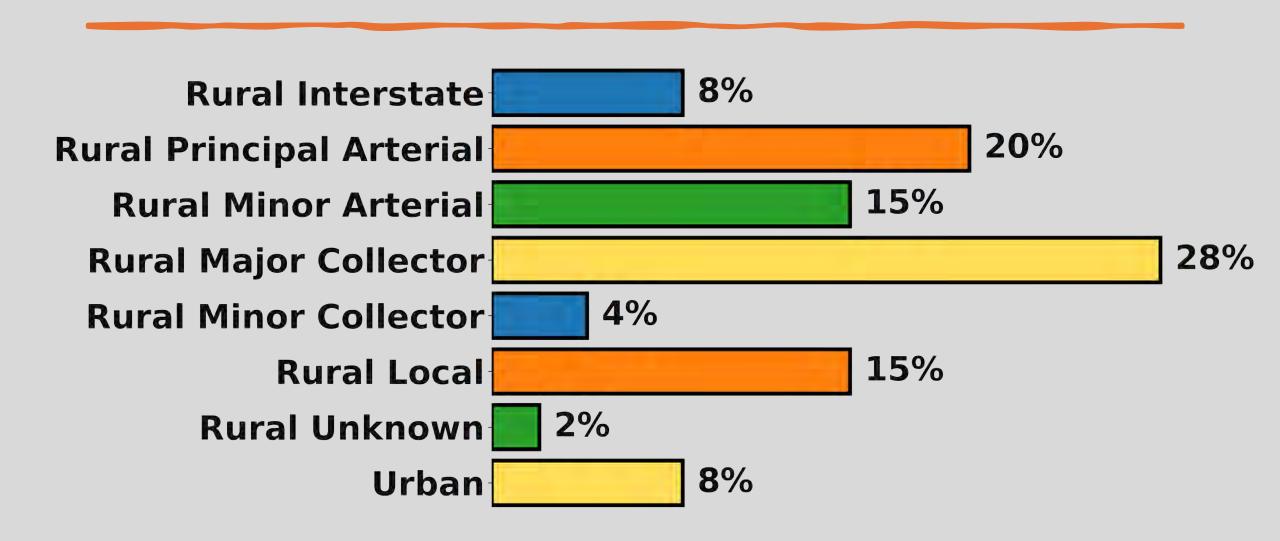


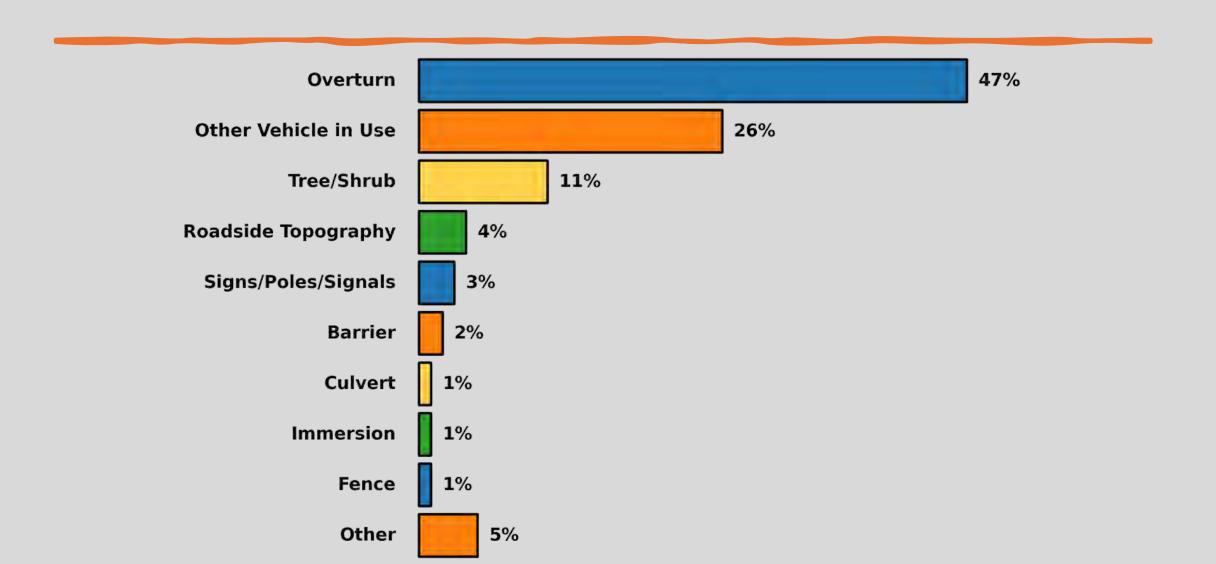












Tackling Roadway Departures

1st

Stay-on-Road Safety Strategy



2nd

Roadway Departure Reduction Plan

3rd

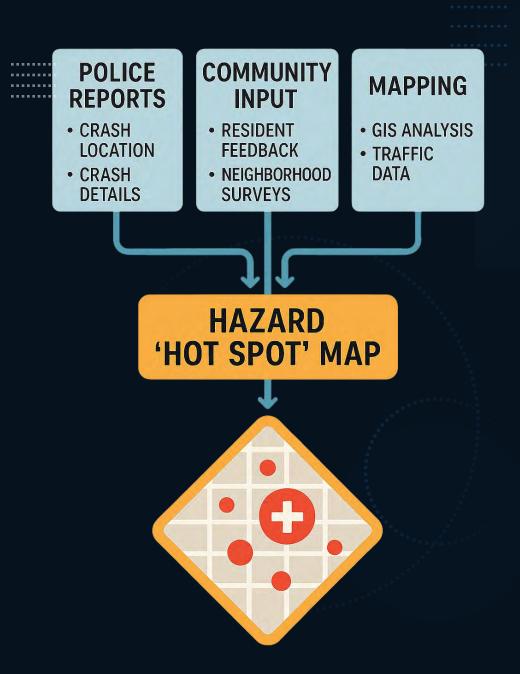
Minimizing Roadway
Departure Risks and Impacts

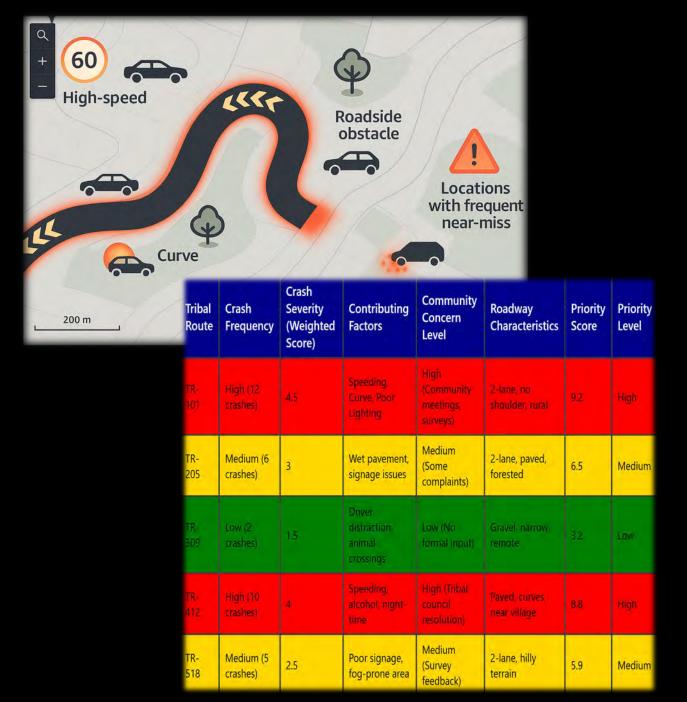




Data-Driven Hazard Identification

- Crash data collection: overcoming challenges
- Network screening: systemic vs. site-specific
- Community mapping and participatory assessments



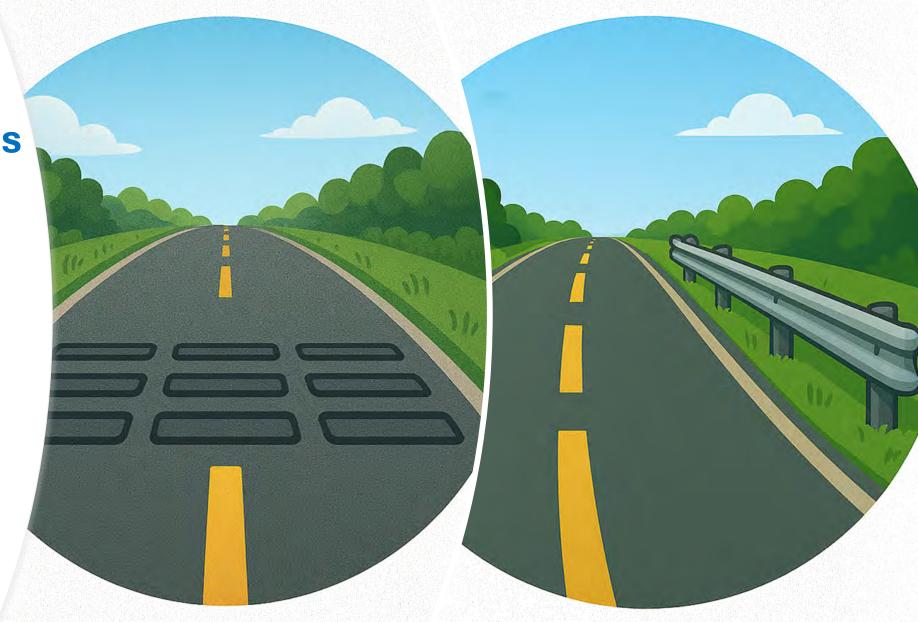


Prioritizing Locations for Action

- Using risk factors: curves, speed, roadside objects
- Combining data and community input
- Prioritization Matrix and/or heat maps help justify funding requests

Low-Cost
High-Impact
Countermeasures

- Keeping Vehicles in their Lane
- Providing a Safer Recovery Area
- Reducing Crash Severity



Keeping Vehicles in their Lane

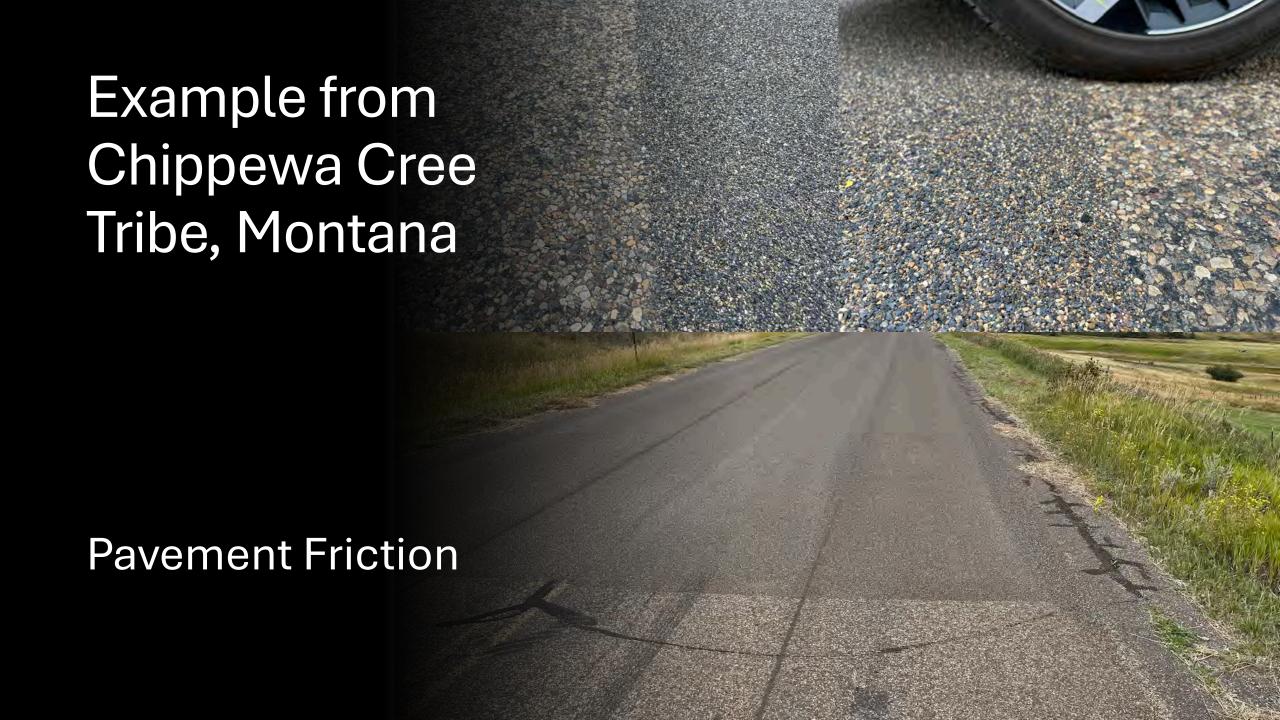
Rumble Strips



Keeping Vehicles in their Lane

Pavement Friction







Wider Edge Lines



Keeping Vehicles in their Lane

Horizonal Curve Delineation



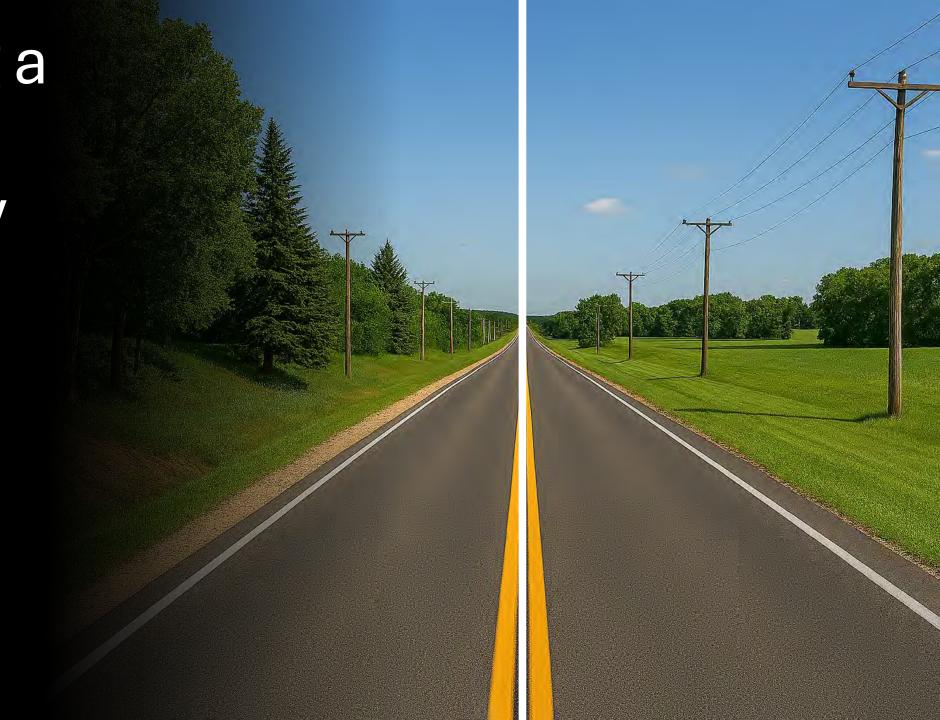
Keeping Vehicles in their Lane

Lighting Improvements



Providing a Safer Recovery Area

Clear Zones



Providing a Safer Recovery Area

Centerline Buffer Area



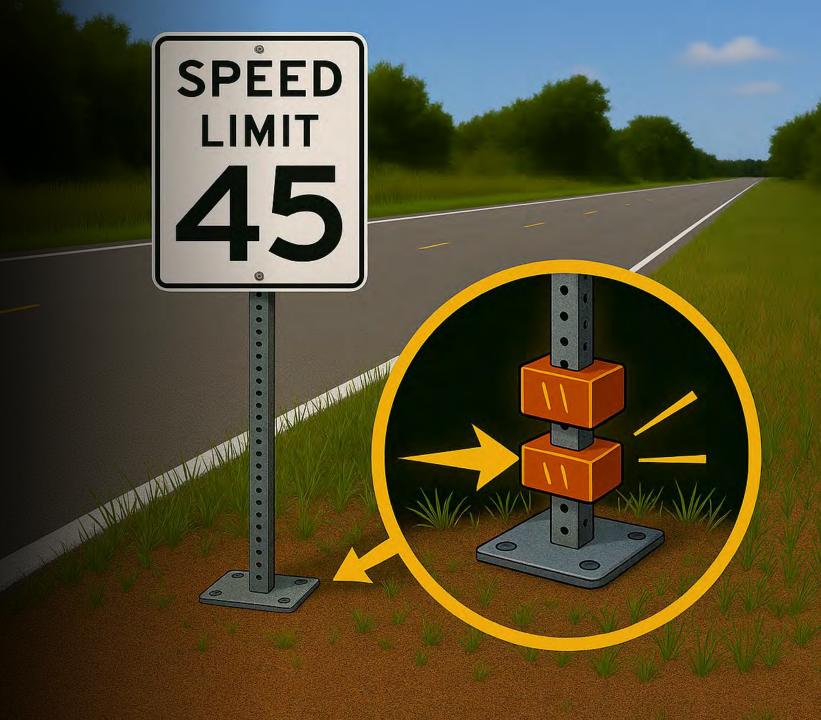
Providing a
Safer
Recovery
Area

Culvert End Treatments



Providing a Safer Recovery Area

Breakaway Features for Signs & Light Poles



Providing a Safer Recovery Area

Drop-off

New Graded Shoulder New Overlay with SafetyEdge **Eliminates Vertical 30° Tapered Edge**

SafetyEdge

Reducing Crash Severity

Guardrails



Reducing Crash
Severity

Guardrail End Treatments



Reducing Crash Severity

Crash Cushions



Reducing Crash Severity

Cable Barriers



Reducing Crash
Severity

Median Barriers

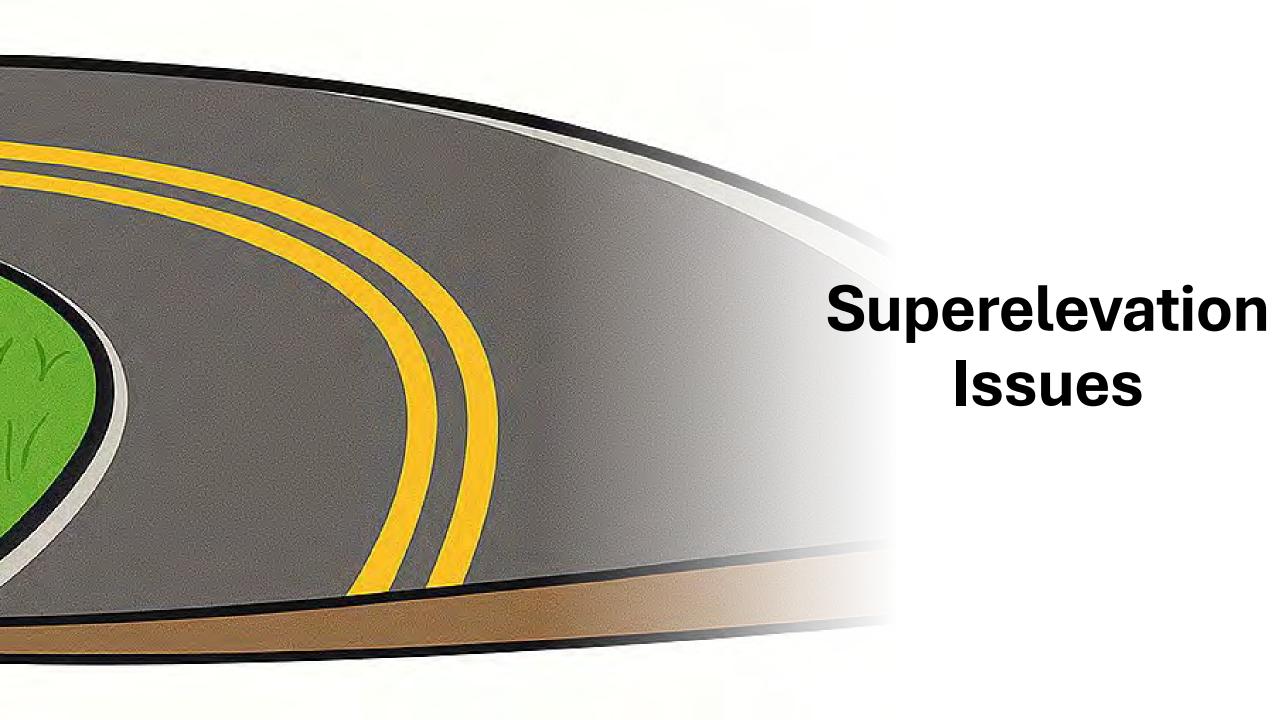






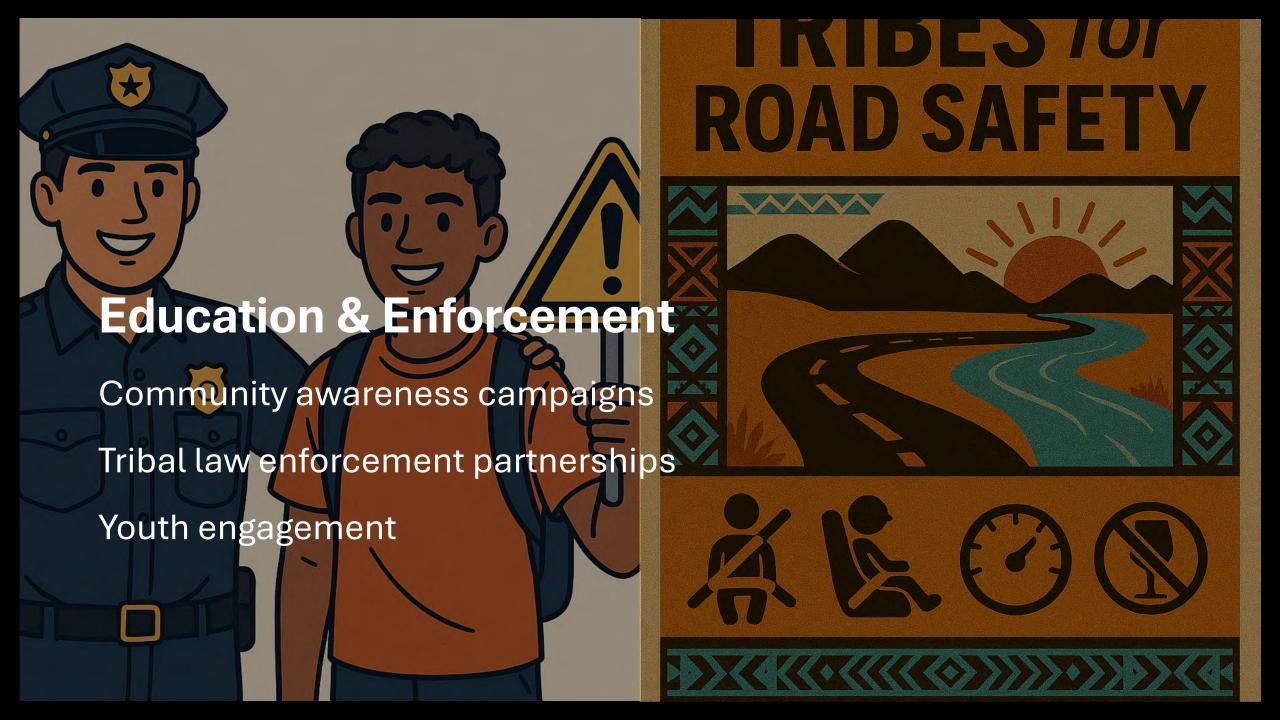
Visual Traps

Photos taken from FHWA "Low-Cost Treatments for Horizontal Curve Safety 2016"





Edge Drop-off



- "Coffee with a Cop"
- School visits and youth programs
- Safety checkpoints with a community twist
- Participation in tribal festivals & health fairs
- Ride-alongs & open houses

PRIZES AND INCENTIVES FOR SAFE DRIVING HABITS



CULTURALLY
RELEVANT
MESSAGING THAT
RESONATES WITH
SRPMIC TRADITIONS
AND VALUES



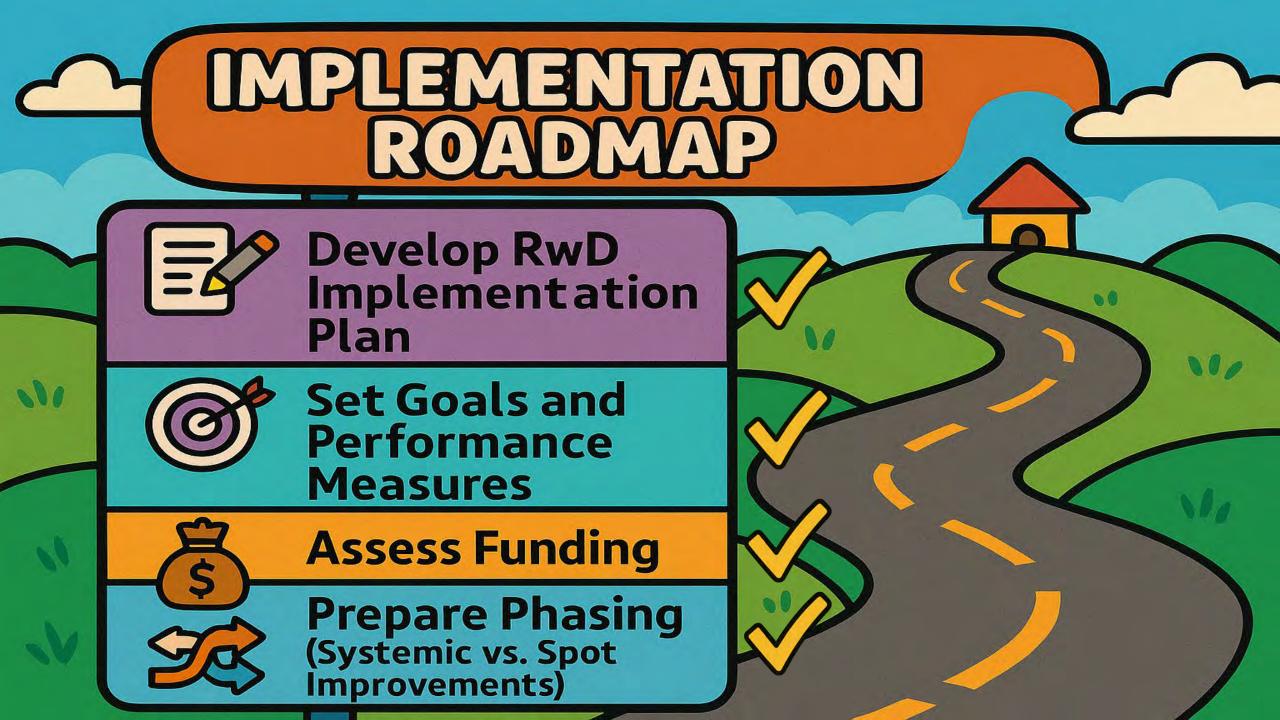


INTERACTIVE WORKSHOPS, CONTESTS, AND CHALLENGES TAILORED TO DIFFERENT AGE GROUPS



ACTIVE INVOLVEMENT OF LAW ENFORCEMENT OFFICERS





TTPSF Systemic Roadway Departure Countermeasures Category

Strategically address Roadway Departure which is involved in 2 out of every 3 fatal crashes in Tribal areas



- Reduced application burden
- Only specific countermeasures eligible

Eligible Improvements in the RwD Countermeasures Category



Horizontal Alignment Warning Signs

> Centerline/ Edge Line Striping

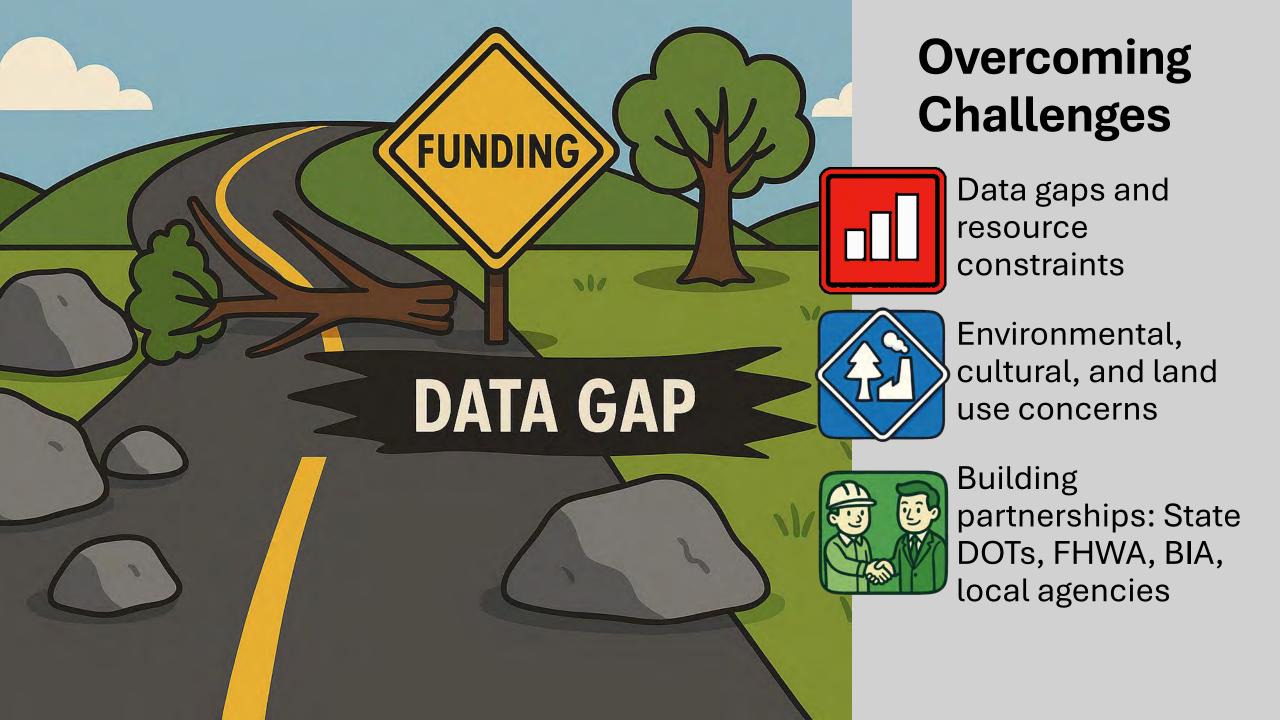
> > Rumble Strips

Clear Zone Hazard Mitigation Systemic RwD Countermeasure Request Form

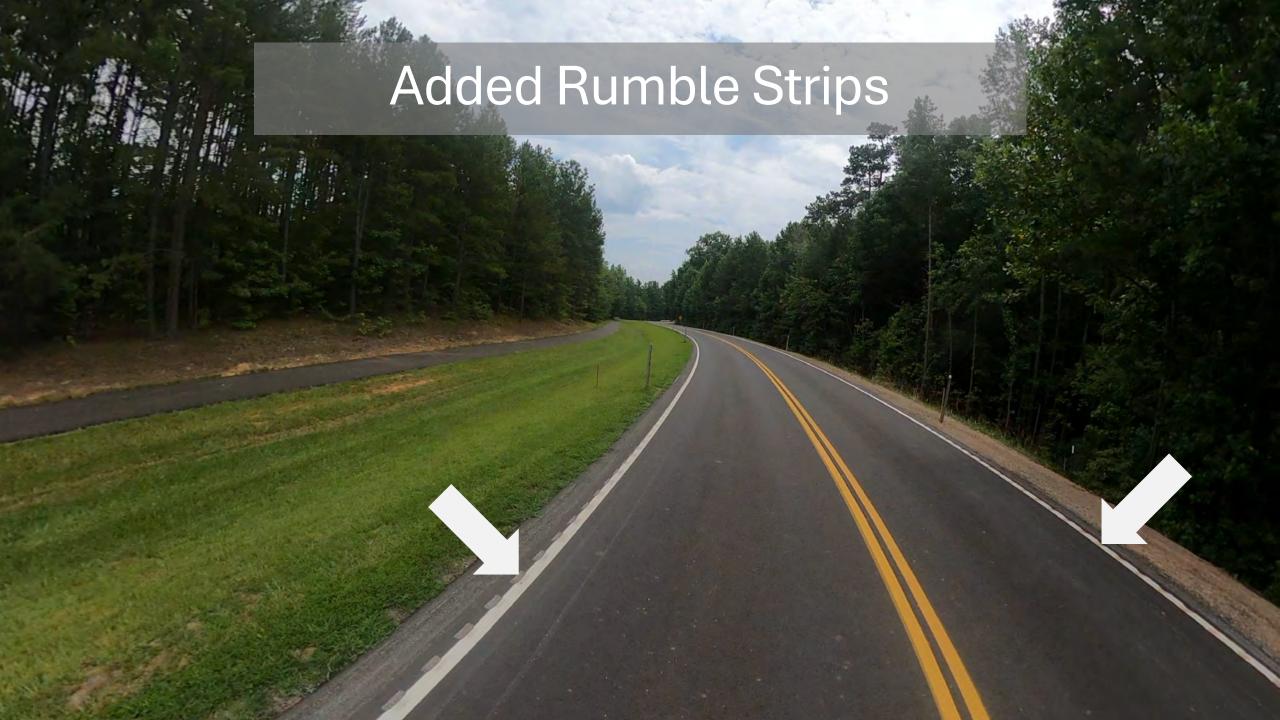




2026 Application Cycle is October 1, 2025 – January 15, 2026

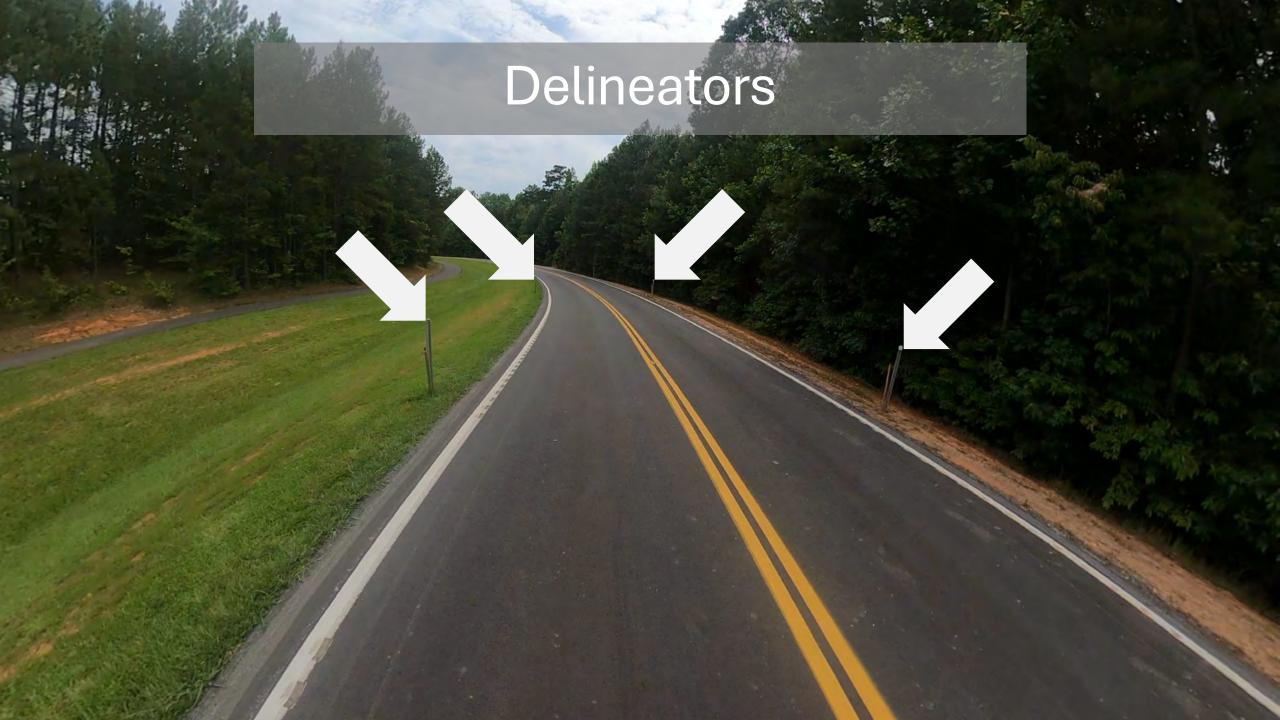






















RESOURCES







TribalSafety.org

FHWA Roadway Departure Safety

FHWA Proven
Safety Countermeasurs



