

Highway Safety Improvement Program (HSIP)

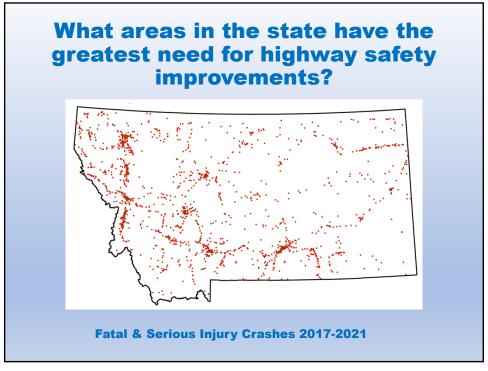
- Program has defined objectives and selection process
 - Data Driven & Strategic Approach to Improving Highway Safety
 - Project selection is competitive based on benefit cost
 - Those that have a higher safety benefit are moved forward first
 - All public roads eligible
 - Projects identified state-wide
- Roadway safety needs far exceed available funding

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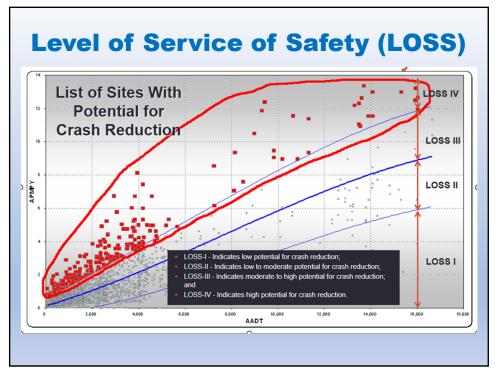
How are Projects Identified?

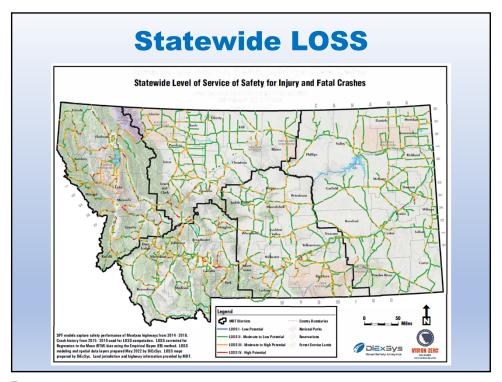
- Re-active / Traditional Method
 - Network Screening of the crash database (3-10 years data)
- Pro-active 2 methods
 - Requests from MHP, MDT District Offices or Local / Tribal Governments
 - Systemic Applications of FHWA Proven Safety Countermeasures or other safety improvements (ie, delineation, sign reflectivity upgrades, centerline rumble strips, flashing yellow arrows, etc).

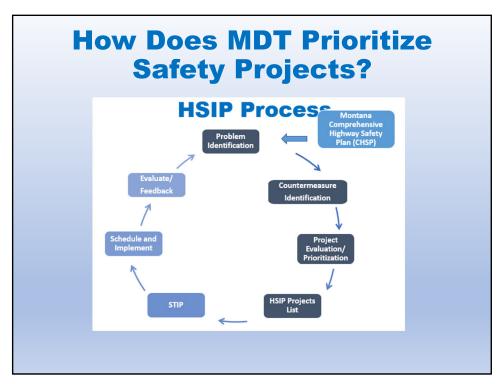
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What types of projects are used to improve highway safety and what is the cost associated with them?

		Crash Modification	
	Safety Countermeasure	Factor (CMF)	Cost Range / Approximation
	Traffic Signals	28%	\$325,000 - \$400,000
	Roundabouts - Fatal/Serious Injury	82%	\$2-5 Million
	Roundabouts - Property Damage	42%	
Curve Signing Related	Signing Projects	23-50%	Varies (\$10,000 - \$100,000+)
	Flashing Beacons	27%	\$5,000 - \$70,000 (varies on type)
Roadway - Pavement Related	4 foot Shoulder Widening with		
	shoulder rumble strips	48%	\$750,000 - \$1,500,000 per mile
Rumble Strips	Rumble Strips - Shoulder	18%	\$1,500 per mile
	Rumble Strips - Centerline	20%	\$2,000 per mile
	Rumble Strips - Intersection	28%	\$4,500 per installation

- · Safety is an element of all projects
 - Road Design, Bridge, Environmental, etc
 - Safety Reviews / crash analysis Reconstruction, Rehabilitation & Pavement Preservation projects (3R Projects)

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Steps Legislators or members of the public can do to improve Montana's roadway system in their areas

- Familiarize themselves with resources addressing traffic safety
 - MDT's Vision Zero
 - FHWA Office of Safety Resources
- Local and Tribal governments
 - Online HSIP application
 - Coordinate with local MDT District Offices
 - Missoula.
 - Great Falls,
 - Butte,
 - Billings and
 - Glendive

Summary

- MDT's Safety Program uses <u>data-driven tools</u> to implement safety improvements on all public roads
- MDT's Safety Program supports MDT 3R projects
- MDT's District Offices are most familiar with their areas and are the best initial contacts
- There are multiple facets to addressing safety on Montana's roads. This includes engineering solutions, behavioral choices, enforcement and emergency response / trauma hospitals.
- Annual Safety Meeting October 4th & 5th Delta Hotels Helena Colonial
- Key Factors fatal and serious injury crashes between 2017-2021
 - 40% involved an impaired driver (alcohol and/or drugs)
 - 34% Lack of occupant protection (seat belts)
 - 59% distracted driver related