

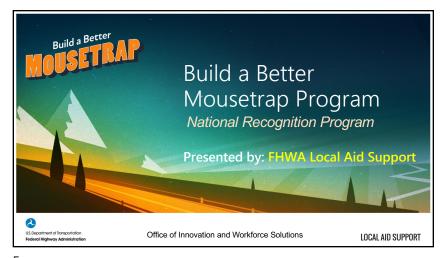
Noel Clocksin, SDDOT

Danielle Lee-Mathis, FHWA Local Aid Support Team
Leanna Emmer, NDLTAP

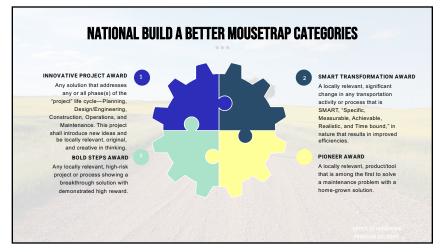
38th Annual North Central
Local Roads Conference
Sioux Falls, SD - October 23 - 25, 2023















Innovative Project Award Winner

Confederated Tribes and Bands of the Yakama Nation (NW TTAP)

Innovative Solution: Mobile Unit Sensing Traffic (MUST) Device.
A collaborative effort with the University of Washington
The MUST device was specifically implemented for use along rural roads with limited infrastructure support, including limited internet connectivity.
The device operates independent of infrastructure
To protect community privacy, data processing is performed within the device itself, minimizing the need for external data transfers.
Success of the device has yielded invaluable information that support traffic planning
This project marks the beginning of a comprehensive approach to enhance transportation and infrastructure within the Tribal and rural community.

9 10





11 12

















19 20



Type 3
Barricade
Weight
Innovator:
Jim O'Hearn

Iowa – Clay County Secondary Road Dept

22

North Dakota – McKenzie County
Highway Dept.
Fifth Wheel Quick Attach Sander

21

Innovators:
Rob McIntyre
Brandon Kummer
(not shown)

McKenzie County
Highway Dept - ND



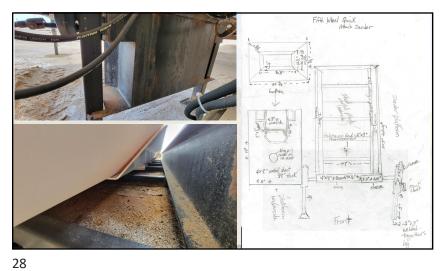


23

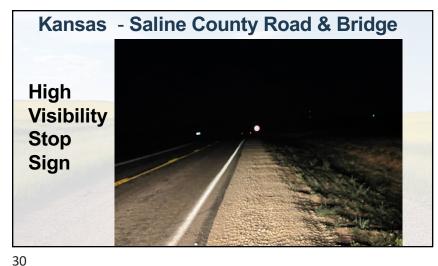






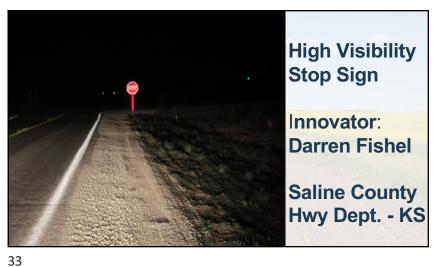












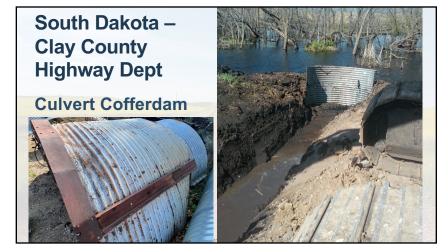














39 40







Innovation is Local Panel of Judges

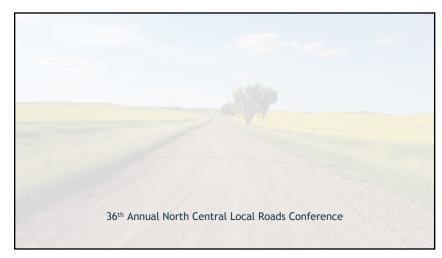
- Tim Blow, Pierre Region Equipment Shop Foreman
- Gary Brennan, Brosz Engineering Managing Principal
- Marc Hoelscher, FHWA SD Division Structures Engineer
- Jim Hyde, SDDOT Region Operations Engineer
- Travis Sparks, SDDOT Highway Maintenance Supervisor
 / Former County Highway Superintendent

43









47 48