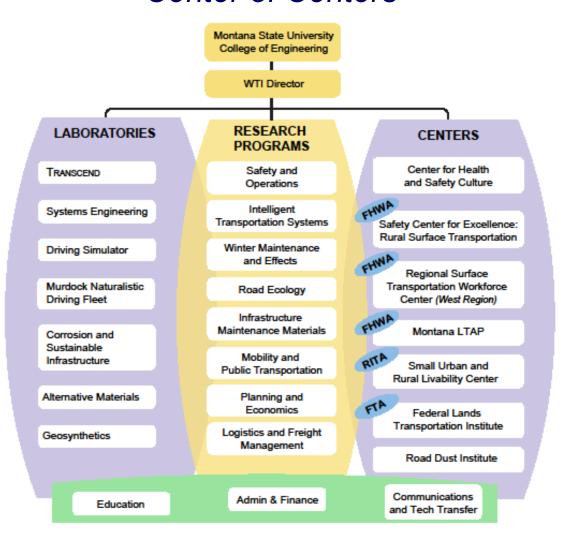
ADVANCING RURAL TRANSPORTATION: BUILDING A SOLID FOUNDATION

Steve Albert, Director
Western Transportation Institute



Western Transportation Institute "Center of Centers"



Building the Foundation



Center for Health & Safety Culture: Purpose

We are an interdisciplinary center serving communities and organizations through research, training and guidance to cultivate healthy and safe cultures.





Research

Build Capacity

Effective Imple-mentation

Improved Health and Safety

Core Questions

- How to measure culture?
- 2. How to define the "ideal" culture?
- 3. How to grow a positive culture?

Core Questions

- How to build knowledge¹ among a variety of leaders?
- 2. How to build skills² to apply this knowledge?

Topics

- 1. Traffic Safety
- Substance Abuse
- 3. Violence
- 4. Child Wellbeing

- 1. Knowledge is the theoretical or practical understanding of a subject.
- 2. Skills are the ability to do something well.





Tier 1 UTC: Livability Center

Partnership between WTI & Upper Great Plains Transportation Institute (North Dakota State University)

Focuses on the six livability principles:

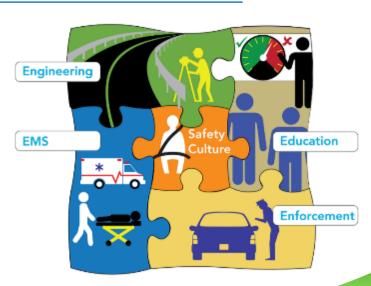
- Provide more transportation choices
- Expand location- and energy-efficient housing choices
- Improve the economic competitiveness of neighborhoods
- Target Federal funding toward existing communities
- Align Federal policies and funding
- Enhance the unique characteristics of all communities





FHWA National Center for Rural Road Safety

- 2016 Safety Summit
- Organizational Safety Culture Research
- Intro to Safety Culture Video
- Overview of RSA's on Tribal Lands Video
- Monthly Webinars
- 15 Archived Webinars
- 3 In-person Trainings
- 200+ Resources Available



WTI Safety Research Sample Projects

- Assessing Crash Risk Factors on Low-Volume Roads
- Assessing Safety Benefits of Active Traffic Management System Along OR-217 Near Portland Oregon
- Developing Weather-Responsive Variable Speed Limit System at an Urban Freeway Interchange





Transportation Safety

Lead: Western Transportation Institute, Montana State
University
West Region Transportation Workforce Center
(Sponsor: FHWA)

FOCUS:

Engineering & technical occupations related to human factors, road safety, operations & maintenance, and highway construction.

OPPORTUNITIES:

Safety is a natural fit with industry self-interest.

CHALLENGES:

Safety training typically offered on-the-job, not pre-career. Academic institutions struggle with interdisciplinary content.





FHWA supported National Network for the Transportation Workforce (NNTW)



SOUTHWEST

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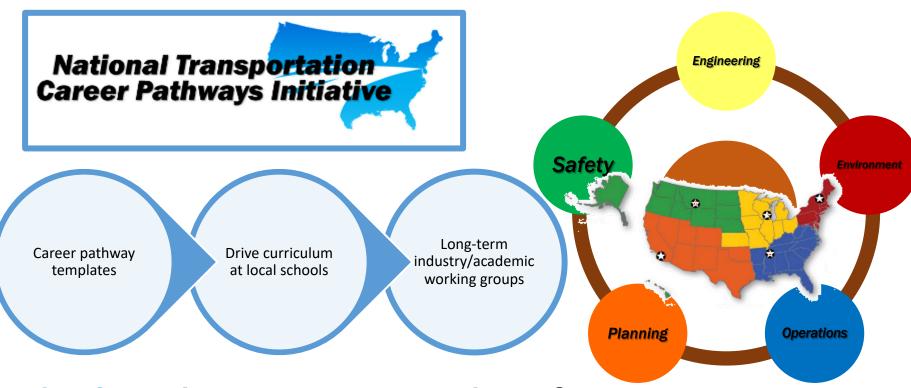
MIDWEST

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- NNTW formed to provide a more strategic and efficient approach to transportation workforce development.
- The Centers act together to facilitate national partnerships with key public and private organizations
- Bring together the transportation, education, labor, and workforce investment communities
- Identify and promote effective transportation workforce activities, programs, and resources



Inspire and prepare greater numbers of students to pursue transportation career pathways





Collaborative Human-Automated Platooned Truck Alliance: CHAPTA



Economic Savings

	Cooperative Human - Truck Platooning: 5 Vehicle Platoon	Assumed Aerodynamic Savings		Number of Human Driven/ Supervised Trucks in the Platoon			
		Lead Truck	Followers	5	4	3	2
	Percentage of total operating costs saved: aerodynamics + driverless trucks	5%	10% - 20%	2% - 4%	9% - 11%	16% - 18%	23% - 25%

Aerodynamics alone

(5 humans)

CHAPTA Goals

Promote: U.S. Competitiveness.

Ensure: Compatibility with existing highway traffic.

Focus: Human factors, safety and operations, and workforce development.

Address: Institutional issues affecting deployment.

Aerodynamics + Automation (2 humans)



Building the Foundation

