

Walking & Rolling in Indian Country

Dena'ina Civic and Convention Center Anchorage, Alaska September 25, 2023



INDIGENOUS TRAIL DESIGN AND BUILDERS

We are diné mountain bike enthusiasts living on the navajo Indian reservation located in the southwest of the united states.

The wild west is so wild that the infrastructure is still yet to flourish for its inhabitants. Yazh Trailz is dedicated to indigenous outdoor users. This generation must prepare the next to steward the land as we were once instructed. Providing access to those infrastructures is our goal.

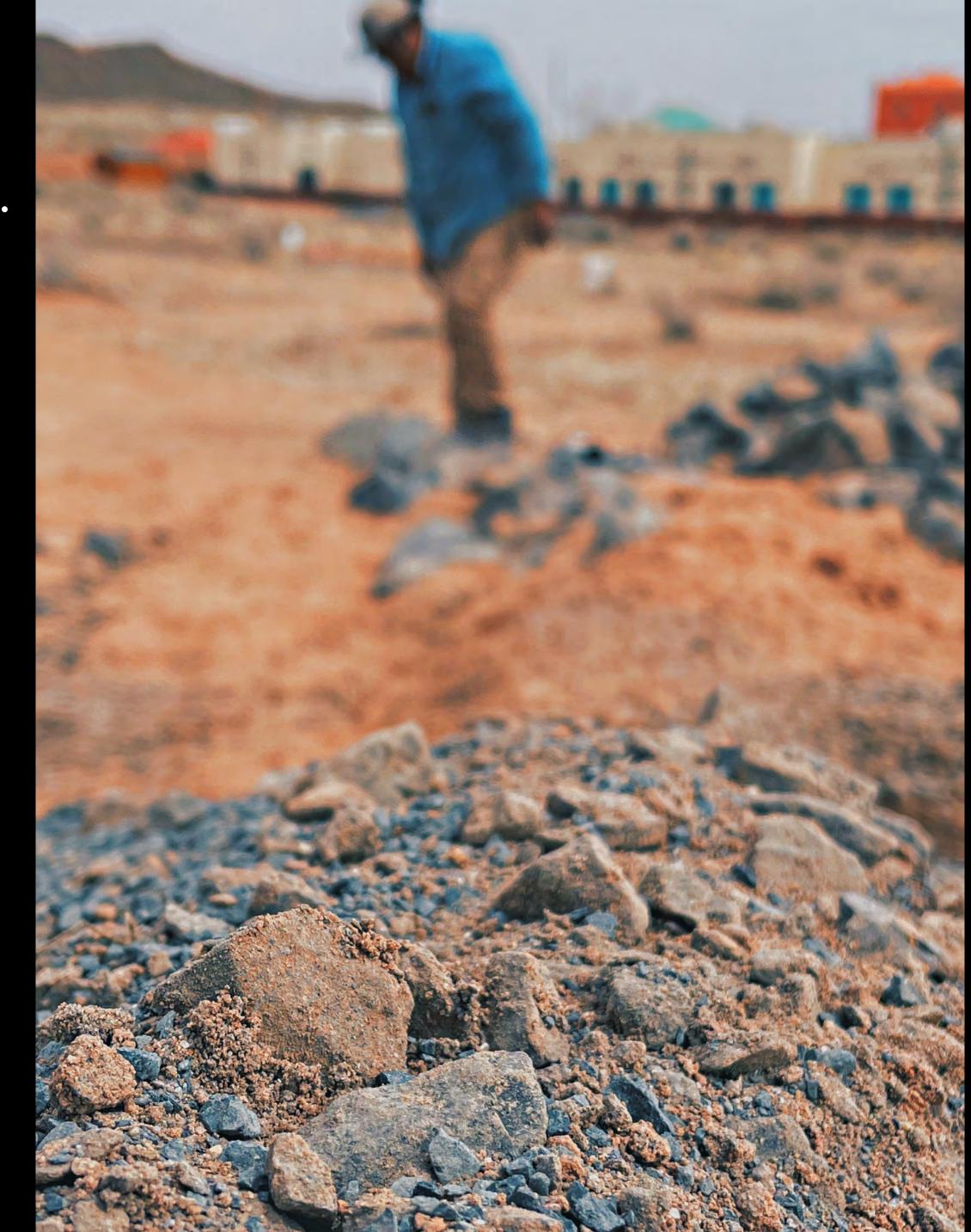




Yazh Trailz, Bicycles are the main focus for trail design however the usership is diverse.

We consider a variety of users, whether they are adept or getting familiar with the first steps. We keep the intended user a priority during the design process. These considerations are represented in the featured trail thread.

The diverse surfaces of the navajo landscape offer its own unique challenges to instill sustainability.



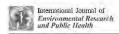


We want to create an environment where land users can be instrumental in the creation and stewardship of the accessible infrastructure that's being implemented on the native land.

Land managers and local governing agencies will determine our project sites. We are looking to have a meaningful dialogue with supporters to continue the effort that is our passion.



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Revier

The Impact of Land-Based Physical Activity Interventions on Self-Reported Health and Well-Being of Indigenous Adults: A Systematic Review

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Abstract: For many Indigenous communities, decreased participation in traditional land-based activities has led to higher rates of chronic disease and a decrease in well-being. This systematic review explores how traditional land-based activities impact self-reported health and well-being of Indigenous adults, using Indigenous and Western perspectives. A search of three electronic databases (PubMed, Scopus, and Web of Science) identified nine studies which explored the experiences and perspectives of Indigenous adults taking part in land-based subsistence and ceremonial activities. A thematic analysis of these studies identified many interconnected physical, spiritual, mental, emotional, and community benefits. Community engagement throughout all stages of the interventions was an important factor in effectively addressing challenges and barriers stemming from colonization, decreased knowledge transfer, and increased use of technology. Participants reported developing more effective stress management techniques, a greater awareness of modifiable risk factors along with increased engagement with Elders. Ultimately, land-based subsistence and ceremonial activities were identified as playing an influential role in the lives of Indigenous adults. The involvement of community members allowed for the development of more culturally relevant interventions. Future community-specific research is needed to increase engagement in traditional physical-activities, improve well-being and overall reduce the risk of chronic disease.

Keywords: Indigenous; self-reported health; well-being; physical activity; traditional activities; adults; health

L Introduction

Connection with the land has always been a fundamental part of the health and wellbeing of Indigenous communities [1]. The land not only provides a source of sustenance, but is a crucial part of maintaining cultural identity, along with benefits at the individual, familial and community level [1,2]. The notion of cultural identity relating to well-being was first articulated in research by Durkheim [3], who stressed the importance of culture in defining an individual. This idea, however, has been longstanding in Indigenous teachings such as the medicine wheel, which is used in some cultures, and serves as a metaphor for a diverse range of spiritual concepts. One of those concepts is the interconnectedness of internal and external factors which must align to achieve overall well-being [4,5]. In Western approaches to health, it has only been recently acknowledged that Indigenous culture, identity, and lifestyle are deeply rooted in their land, and ultimately their wellbeing [6,7]. This was observed in a study by Hossain and Lamb [5], which found that providing support and opportunities for traditional activities, such as arts, crafts, hunting, and fishing, led to greater psychological well-being for Indigenous people in Canada living in non-metropolitan areas.



Citation: Ahmed, 19 Zuk, A.M.: Tsur, I.I.S. The francat of Land-Based Physical Activity, Interventions on Self-Reported Lieuter and Well-Burry of Indigenous Adults: A Systematic Review, 1911, Famina, Rev. Panisthelili 2021, 18, 7899. https:// ubic.org/10.3399/incidits/37999

Academic Editor: Mirja Hirvensalo

Received: 6 May 2021 Accepted: 30 June 2021 Published: 2 July 2021

Publisher's Note: MDPI stays mound with regard to jurisdictional claims in published maps and institutional affillations.

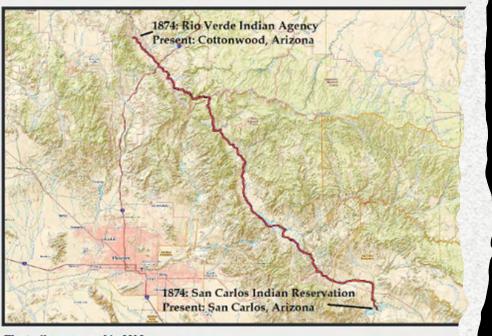


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The trail, as mapped in 2016.





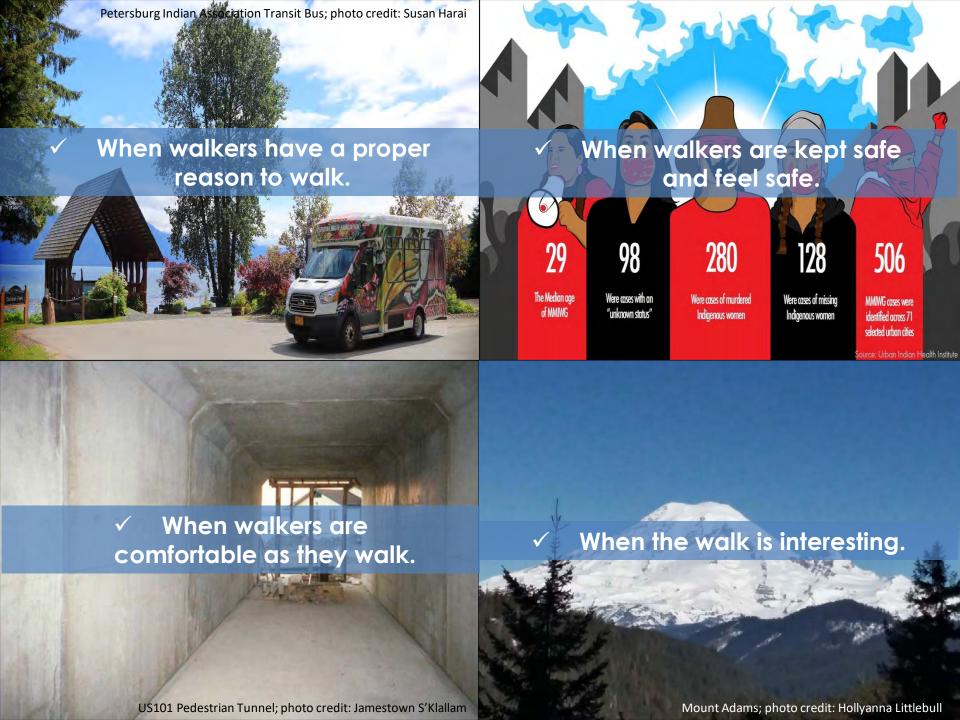
Benefits of Walking

- Improve Circulation
- Shore Up Your Bones
- Enjoy a Longer Life
- Lighten Your Mood
- Lose Weight
- Strengthen Muscles
- Improve Sleep
- Support Your Joints
- Improve Your Breath
- Slow Down Mental Decline
- Lower Alzheimer's Risk
- Do More for Longer



4 Things That Make Walking as Good as Driving





























All bus riders originate as pedestrians or bicyclists.





What We Must Overcome for Safe Walking



	URBAN CRASHES (%)	RURAL CRASHES (%)
Crash Characteristics		
Reservation Jurisdiction Yes No	0 100	28.9 71.1
Time of Day (Crash) Dark Daylight Dawn/Dusk Dark/Lighted	24.3 24.3 2.8 48.6	72.3 21.3 0.0 6.4
Alcohol Involvement (BAC>0.8) Yes No	69.2 30.8	54.2 45.8
Day Of Crashes Weekday (M-TH) Weekend (F-S)	38.5 61.5	60.8 39.2
Roadway Profile Level Grade Hillcrest/Sag	87.5 14.3 0.0	64.4 22.2 13.4

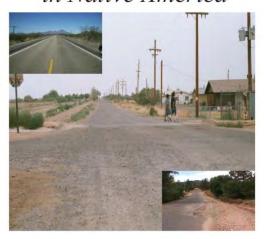
	URBAN CRASHES (%)	RURAL CRASHES (%)
Pedestrian Characteristics		
Males	80	70.4
Pedestrian Drinking (Males) Yes	54.3	58.6
Top Contributing Factor Walking in Road Improper Crossing Not Visible to Driver Dart/Run into Road Failure to Yield Other	28.2 20.5 7.7 23.1 5.1 15.4	54.1 6.2 18.8 2.1 0.0 8.8

Pedestrian Fatality Statistics



FHWA-SA-04-007 Technical Report September 2004

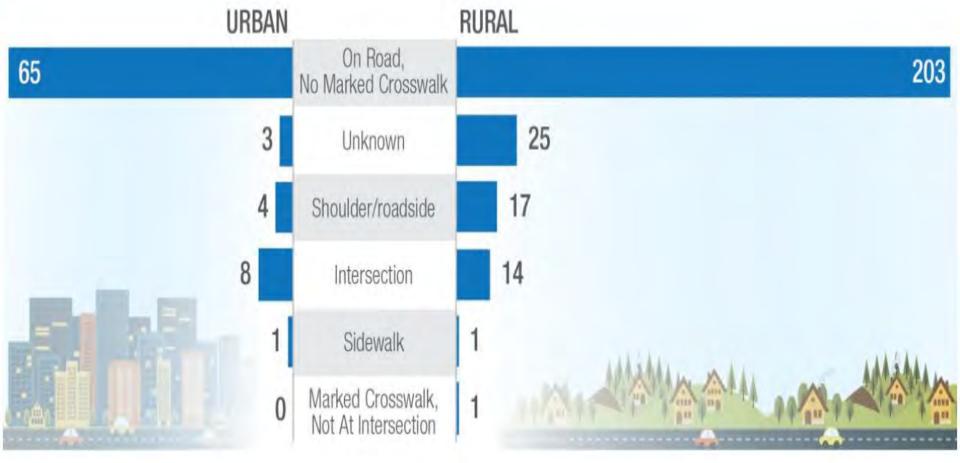
Pedestrian Safety in Native America



https://bit.ly/3NhikCc

Contributing Factors

- Rurality
- Lack of visibility
- Income Inequality
- Lack of crash data
- Speeding and speed variations
- Lack of traffic control devices
- Lack of pedestrian accommodations
- Alcohol involved with peds & drivers

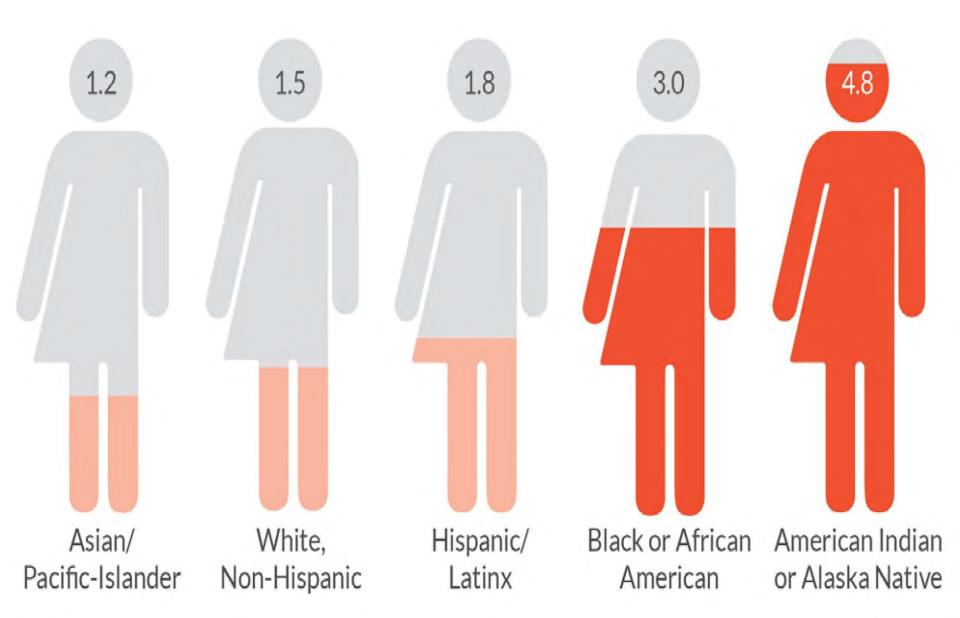


Pedestrian Fatality Statistics

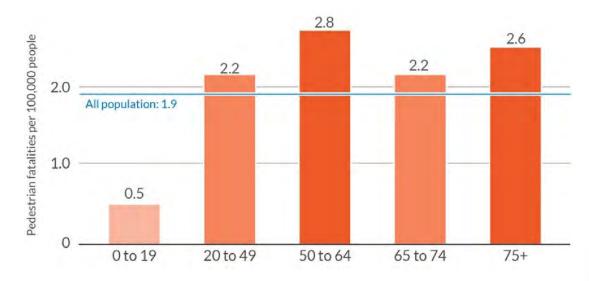
Graph of Pedestrian Fatality Locations 2010-2014 from the Tribal Transportation Strategic Safety Plan

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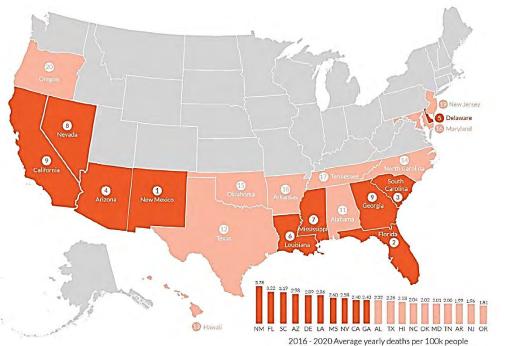
Pedestrian deaths per 100,000 by race & ethnicity (2016-2020)



Pedestrian Fatality Statistics



(At left) Ped Fatalities per 100,000 people by age (2016 - 2020





(At left) THE TOP 20 Most Dangerous States for Pedestrians



SRTS = One of **Many Potential** Policies for **Permanent** Change





The Original "5 Es" of SRTS



Education

Pedestrian & bike safety + skills curricula & activities for children, parents & community members

Encouragement

Fun, educational & motivational activities to promote walking & bicycling

Enforcement

Changes unsafe behaviors to help kids, parents & drivers follow traffic rules & become aware of pedestrians & bicyclists

Engineering

Infrastructure improvements to the built environment around the school that improve safety

Evaluation

Ongoing information-gathering to assess and/or improve Safe Routes to School program design

Tribal Safety Plan & SRTS Route/Travel Plan Development Is Very Similar





SRTS National Partnership's recent "Back to Basics - An Introduction to Safe Routes to School" webinar.





Engineering

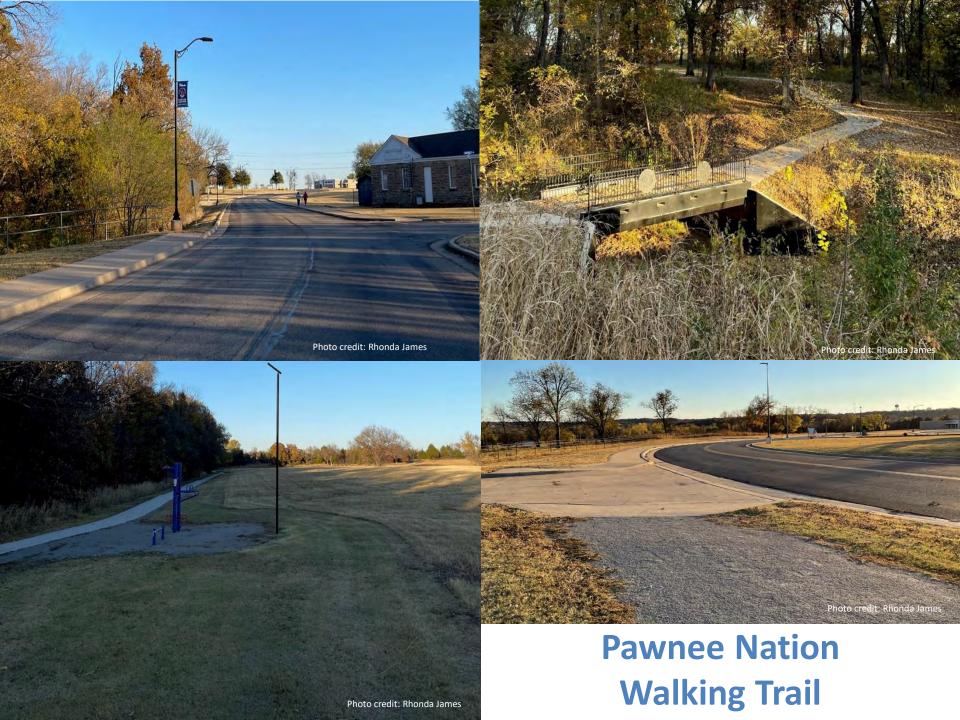
Adding a sidewalk cuts in half the risk that a pedestrian will be struck by a car.



Formalizing an existing desire line ("goat trail") ensures its usage and community connectivity.







"... I have seen that in any great undertaking, it is not enough for a man to depend simply upon himself..." --Lone Man (Isna-la-wica) Teton Sioux



















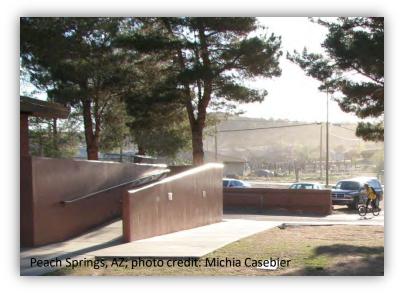


Benefits of Biking



Cole House at 26 Racing Pro from Oneida Nation







"Life is like riding a bicycle. To keep your balance, you must keep moving." -- Albert Einstein



Tribal Biking Successes





Adapting the League's Curriculum

Bike Traffic Skills Class

FREE CLASS

Open to Te-Moak Tribe of Western Shoshone Youth (10 - 18 years)

Taught by

- Michia Casebier, League Cycling Instructor #3685
- Brett Cohen, League Cycling Instructor #4388



Bicycling Skills 123: Youth Course - Bikes & Helmets Required! Learn New Skills on Your Own Bike + Helmet Fitting



Topics covered

- Checking Air, Brakes & Crank (ABC Quick Check)
- Basic Skills & Emergency Stopping
- Hand Signals & What Part of the Road to Ride On
- How to Ride on Elko Streets
- Fun & Games + Helmet Decorating

Registration Required - Enrollment maximum = 20 youth

Register at the Administration Building with the Tribal Motor Vehicle Crash Injury Prevention Program

In the parking lot at the Elko Indian Colony Gymnasium, Elko, Nevada 89801



Class date and time

Thursday, June 11 • 9 a.m. - 3 p.m.







For more info, contact Aaron Sam or Sharon Alna: 775-738-9251; email: tmktrafficspecialist@yahoo.com or tmkti@yahoo.com

Te-Moak Tribe of Western Shoshone Bike Traffic Skills Class Agenda Elko, Nevada | Elko Indian Colony Gymnasium and Parking Lot June 11, 2015



:45

:30

THURSDAY - 9:00 am to 3:00 pm

Clan In R. Maron Trees.	Brutt Cohon R.	Officer M double.	chack posticinante	hikes to assess their condition	

1	Welcome & Introductions		9:00 am to 9:15 am	:15
		Helmet Fitting/Care/Decoration	9:15 am to 9:45 am	:30
		(Esther, Erica & Michia) Diserview of Class and Materials (All)	9-45 am to 9-50 am	-05

Activity Stations

2	Gatting Started Druft	Michig Erica & Officers M R Mi	9-50 am to 10-05 am	-15

- ABC Quick Check
- Mounting/Starting and Stopping/Dismounting

Basic Bike Handling 10:05 am to 10:35 am

- Straight Line/Balance
- · Scanning/Signaling/Turning

Snack/water break	10:35 am to 10:45 am		
Avoidance Maneuvers	10:45 am to 11:45 am	1:00	

Avoidance Maneuvers

- Quick Stop
- "Rock Dodge" Dodging Hazards
- + Instant Turn

Lunch/Guest Speakers/"Rules of the Road" 11:45 am to 12:30 pm

Rules of the Road 12:30 pm to 1:00 pm

- · Entering and Crossing the Road
- · Along the Road
- Intersection

5	Fun and Games	1:00 pm to 1:45 pm	:45

- · Chaos Box
- Slow Bicycle Race

Course Planning & Implementation Challenges









Te-Moak Tribe of Western Shoshone



Unique Successes Realized









Unique Successes Realized

Recommendations

places with 2 - 3 of the 4 things Identify people need in their walk environment. the other missing elements at Develop those locations to get to the 4 needed. a team to improve bike-ped Assemble safety on an ongoing basis. walk audits, bike RSAs & a Safest Route to School or... Complete Through the Community map. bike-ped-related events, Host trainings & activities to build into sustainable programs





Tribal bike-ped safety = reclaimed roadways, sovereignty, improved crossings & slower speeds.





Potential Funding

- Outride Fund
- EPA Smart Growth Technical Assistance Programs
- National Park Service <u>Rivers, Trails, and Conservation</u>
 <u>Assistance Program</u>
 - Notah Begay III Foundation
 - Tribal Transportation Program



• Tribal Transportation Program Safety Funds

Potential Funding

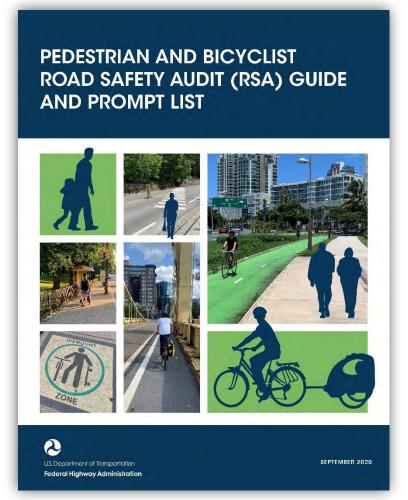
- Transportation Assistance Program
- Land and Water Conservation Fund
 - Federal Lands Access Program
- Community Development Block Grant
- Indian Community Development Block Grant



• BIA Tribal Tourism Grant Program

Potential Funding

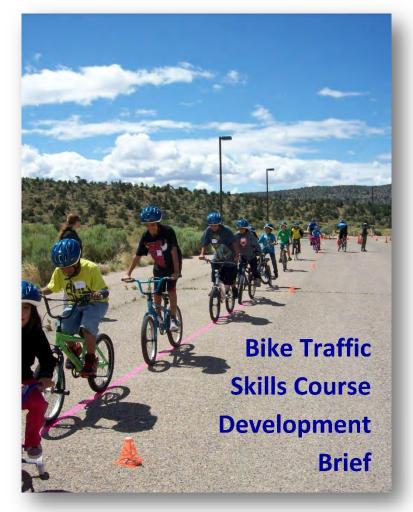
- US DHHS <u>Office of Minority Health</u>
 - National Institutes of Health
- Diabetes and Injury Prevention grants
 - National Indian Health Board
- Highway Safety Improvement Program (HSIP)
 - Centers for Disease Control and Prevention
- Substance Abuse and Mental Health Services Administration
 - Health Resources and Services Administration
 - Community Development Block Grant & ICDBG
- Robert Wood Johnson Foundation <u>Pioneering Ideas: Exploring the Future</u>
 to Build a Culture of Health
 - Administration for Native Americans grants
 - U.S. Department of Housing and Urban Development
 - FEMA Hazard Mitigation Assistance & Pre-Disaster Mitigation grants
 - Congestion Mitigation and Air Quality grants





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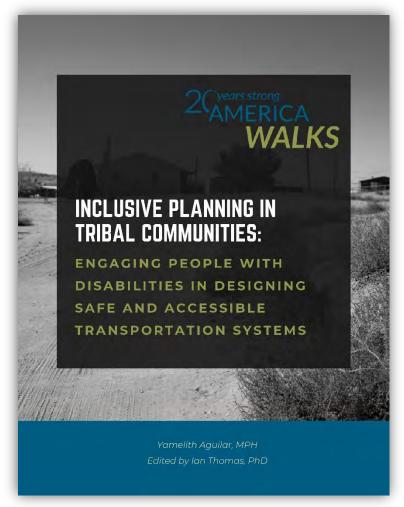






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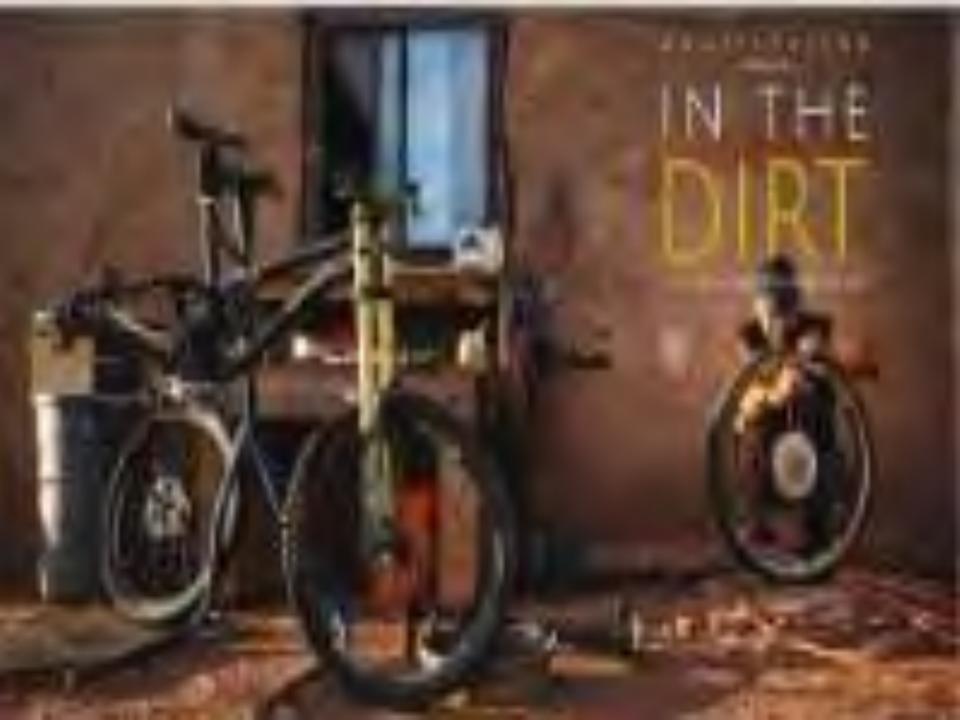






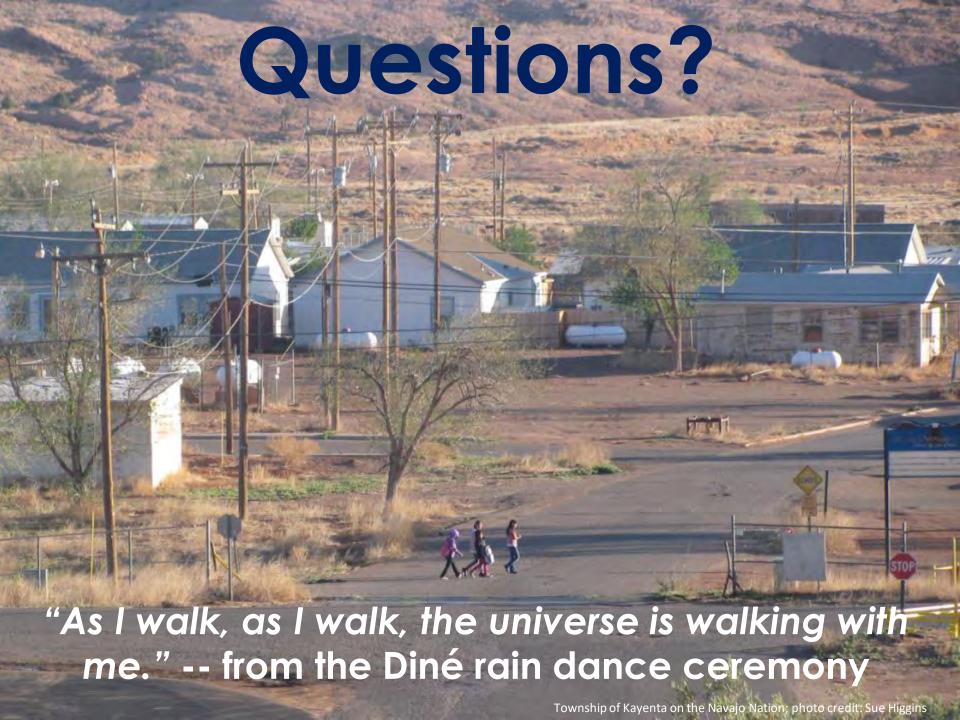
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