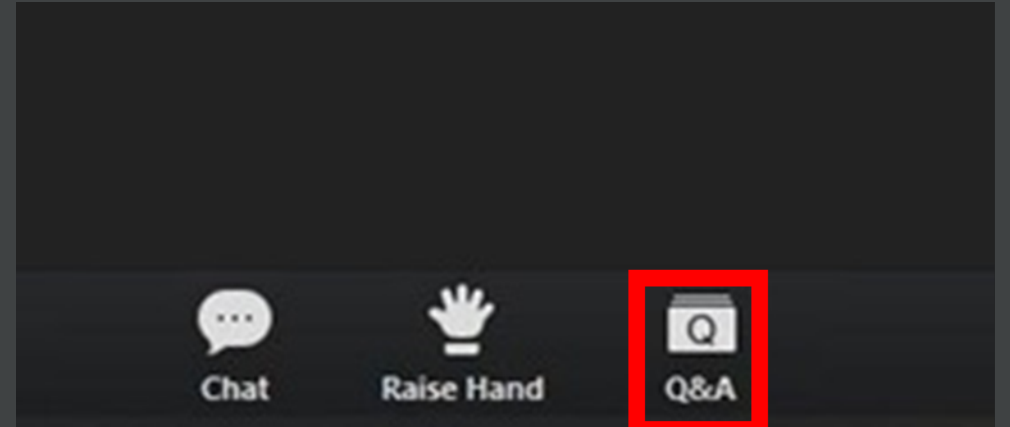


Developing Bicycle Route Networks for Active Wyoming Communities



What to know

- ✓ Everyone is muted upon entry.
- ✓ Please use the Q&A feature when you have questions, and when we ask you to comment.
- ✓ If you're on your phone you will still be muted.
- ✓ Reminder: CE Credits

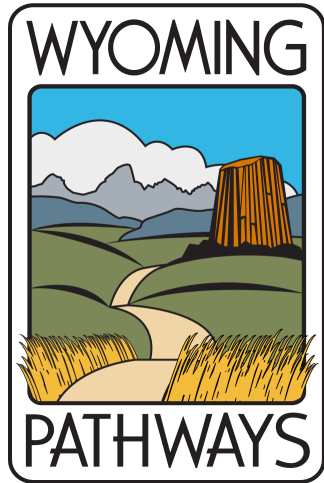


Use the Q&A function to submit questions and comments



**This call (and anything
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Recorded!**

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Presenting Today

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Introductory Poll



Agenda

- What is a Bicycle Route?
- Value of Bicycle Routes
- Elements of a Successful Network
- Bicycle Route Network Examples
- Opportunity in Wyoming



What is a Bicycle Route?

- Bike routes are prioritized routes for bicyclists, which may be on- or off-street
- They are established and identified with signage, and sometimes pavement markings, but no additional infrastructure is required
 - Default signage is MUTCD D11-1, but custom signage is allowed
- Bike routes are typically designated in the following locations:
 - Along roadways connecting major destinations
 - Along scenic roadways
 - Along roadways with existing bicycle infrastructure or favorable conditions for bicycling
 - Along roadways already popular for bicycling

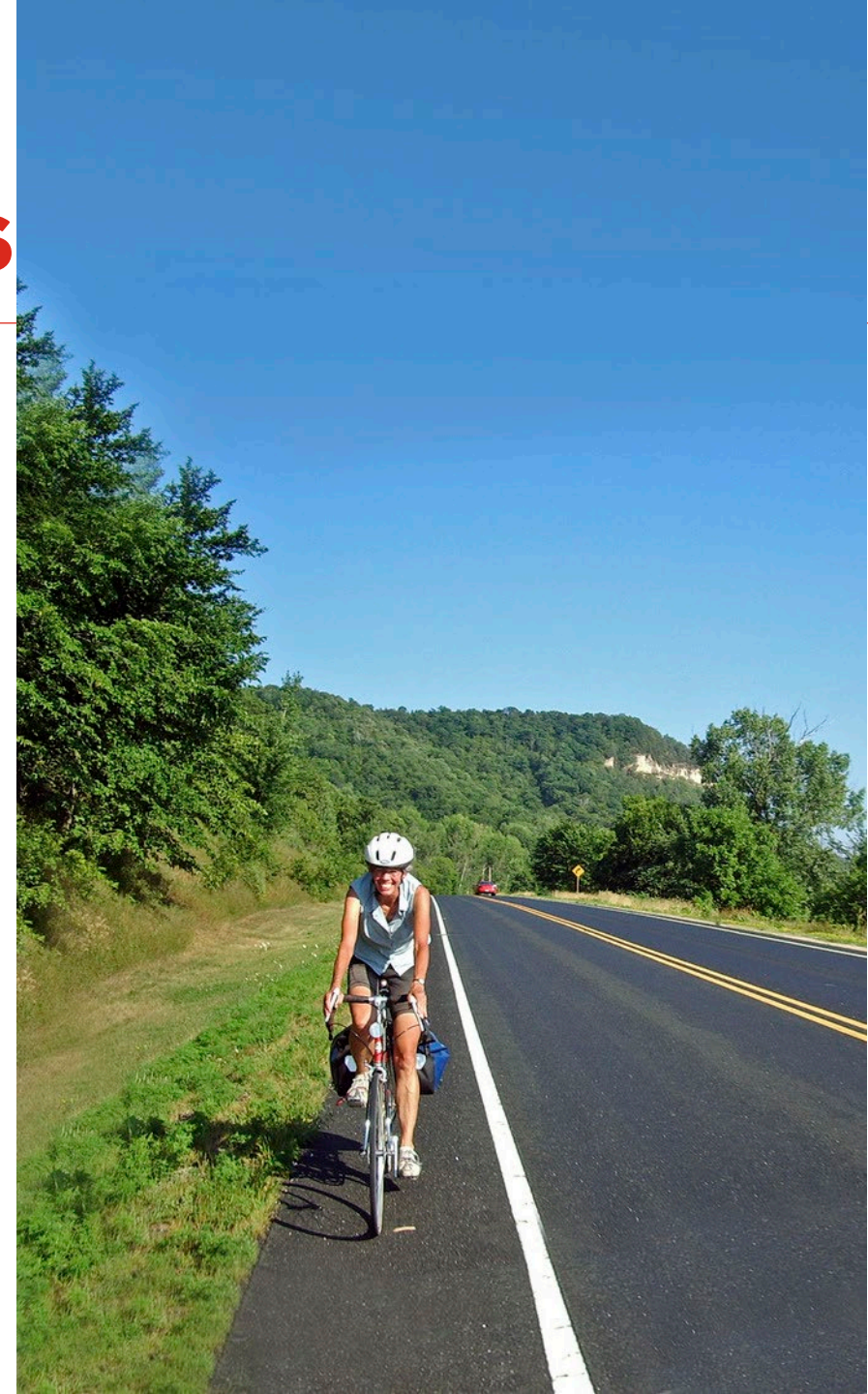


Discussion



Value of Rural Bicycle Routes

- Promote healthy communities
- Encourage bicycle tourism and economic development
- Enhance quality of life
- Increase bicyclist safety and visibility



Healthy Communities

- Bicycling health benefits:
 - Mental wellbeing
 - Weight loss
 - Reduces risk of heart disease and cancer
 - Improved sleep
 - Low impact on body



Bicycle Tourism & Economic Development

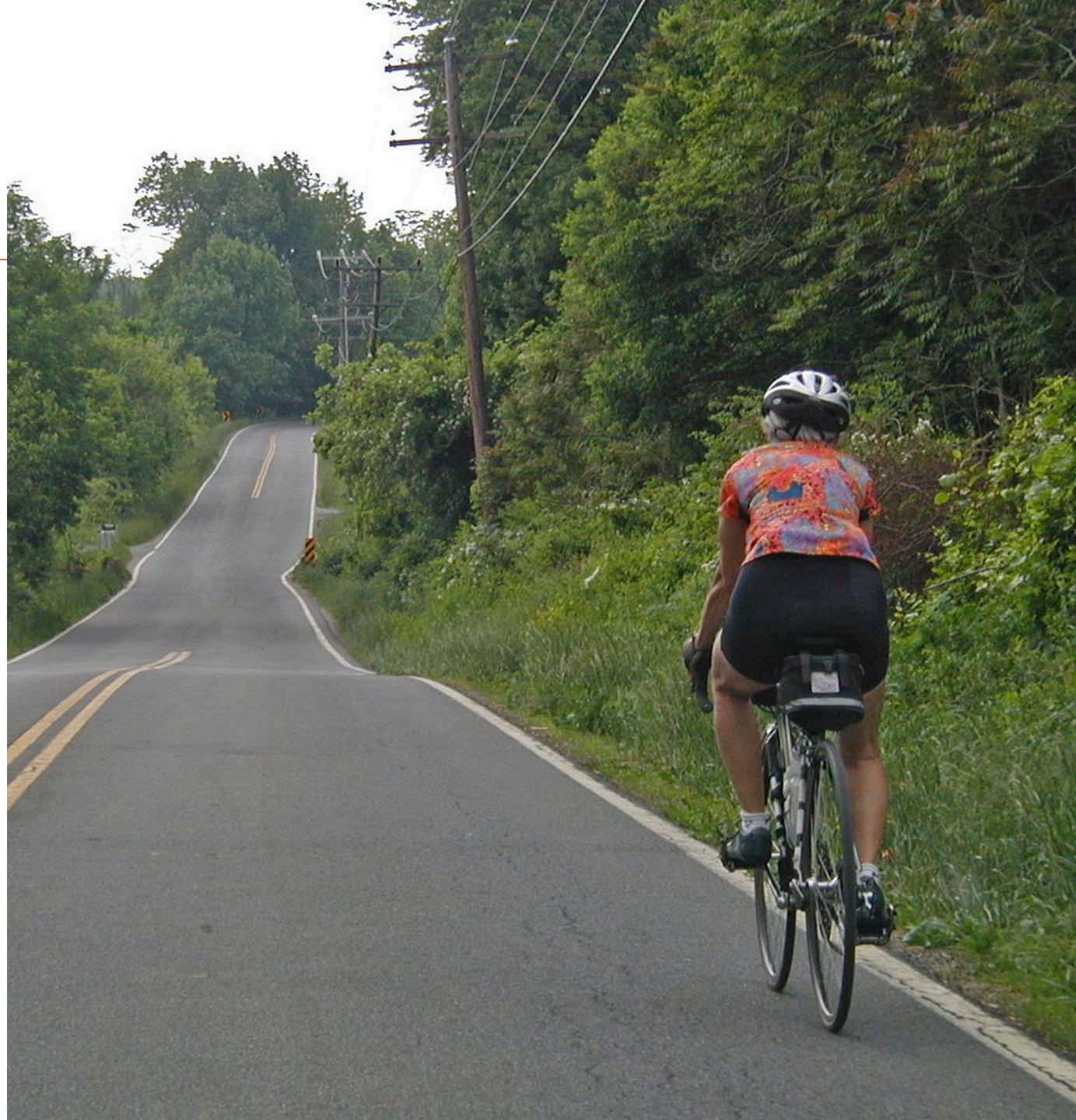
- Contributes \$83 billion annually to US economy
- Supports more than 845,000 jobs nationally
- Produces \$97 billion in annual retail sales

<https://www.adventurecycling.org/advocacy/building-bike-tourism/economic-impact/>



Quality of Life

- Expands recreational opportunities
- Promotes mental and physical health
- Stimulates community interactions
- Provides transportation alternative for short/local trips



Bicyclist Safety

- Bike route signage and pavement markings reinforce that bicyclists may be present on the roadway and remind drivers to stay alert
- Shared lane markings can reduce injury crashes involving bicyclists by 20%
- Bicycle warning signage (R4-11, W16-1) can reduce bicycle-involved crashes by 5% to 15%

<https://www.fortmadison.com/DocumentCenter/View/27011/A07-Design-Toolbox>
https://www.oregon.gov/ODOT/Engineering/Docs_TrafficEng/CRF-Appendix.pdf



Discussion



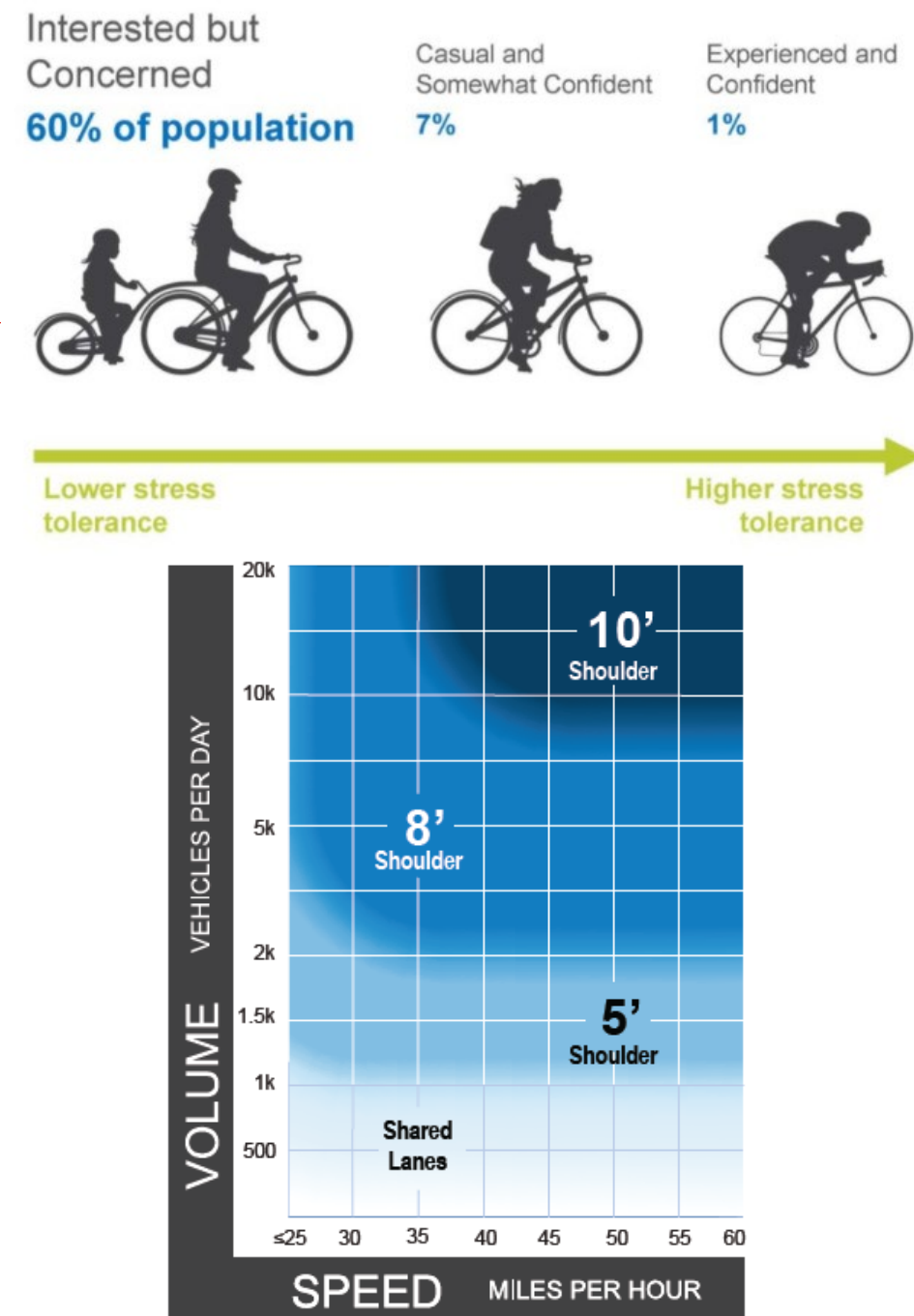
Elements of a Successful Bike Route Network

- Low-stress routes
- Network connectivity and wayfinding
- Custom elements unique to individual communities



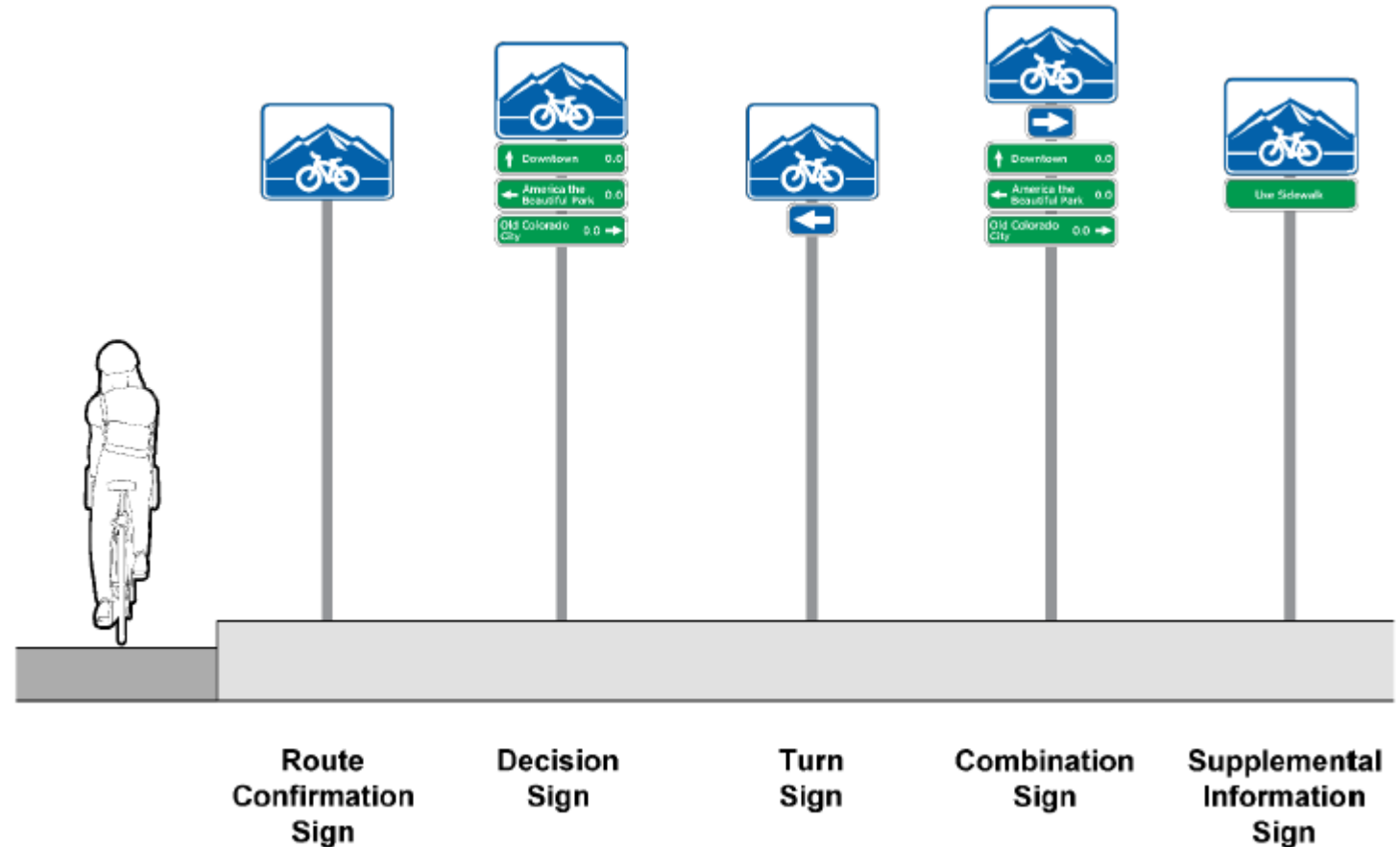
Low-Stress Routes

- Bicyclists are not homogenous
- Casual riders who are “interested but concerned” about bicycling will not ride a bike on high-stress roads
 - Think of riding with your kids or your parents
- Roads with lower vehicle speeds and volumes are more comfortable for all bicyclists, and shared lanes with vehicles are generally only appropriate under these conditions
- Roads with higher vehicle speeds and volumes require additional separation (i.e., wider shoulders or separate sidepath) to maintain rider comfort



Network Connectivity & Wayfinding

- Casual riders and bike tourists may not be familiar with the road network or location of destinations
- A continuous and connected bike route network is critical to making bicycling easy, enjoyable, and intuitive
 - Consistent and frequent wayfinding signage to help bicyclists navigate the network
 - Frequent bike warning signage and shared lane markings to increase bicyclist visibility and driver awareness
 - Gateway treatments, maps, benches, and other amenities to enhance rider experience



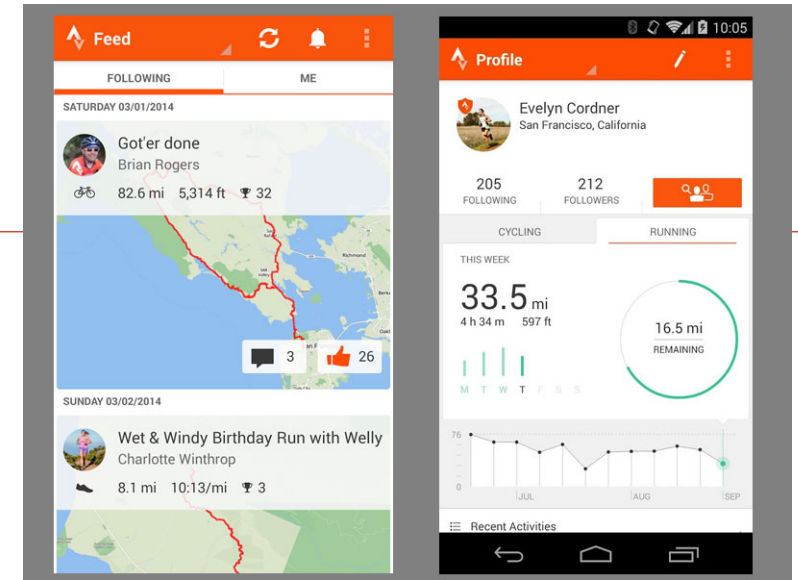
Customization

- Creates a sense of place
- Shows off uniqueness of community
- Adds aesthetic value to bike route network



Non-Infrastructure Elements

- Promote use of bike routes, inform community, and provide additional information
- Mobile apps
- Websites
- Maps
- Route planning and tracking (e.g., Strava)



Discussion



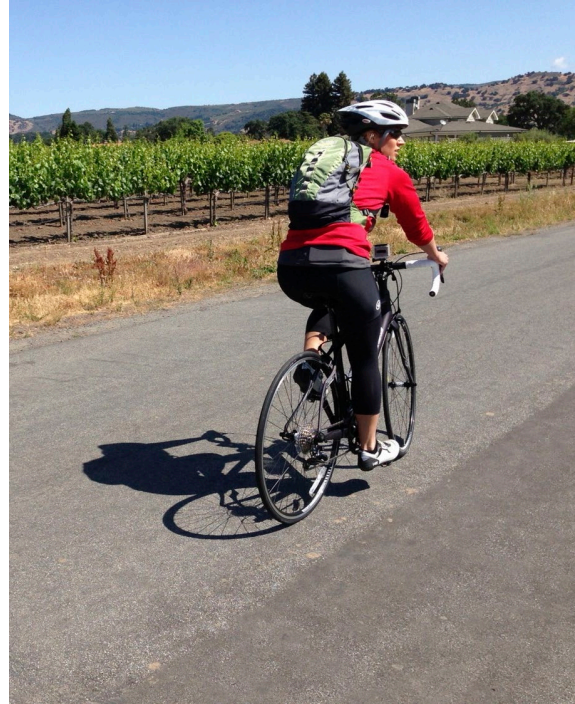
Successful Network Examples

Colorado Springs



LOCAL

Napa Valley



REGIONAL

Ohio



STATEWIDE

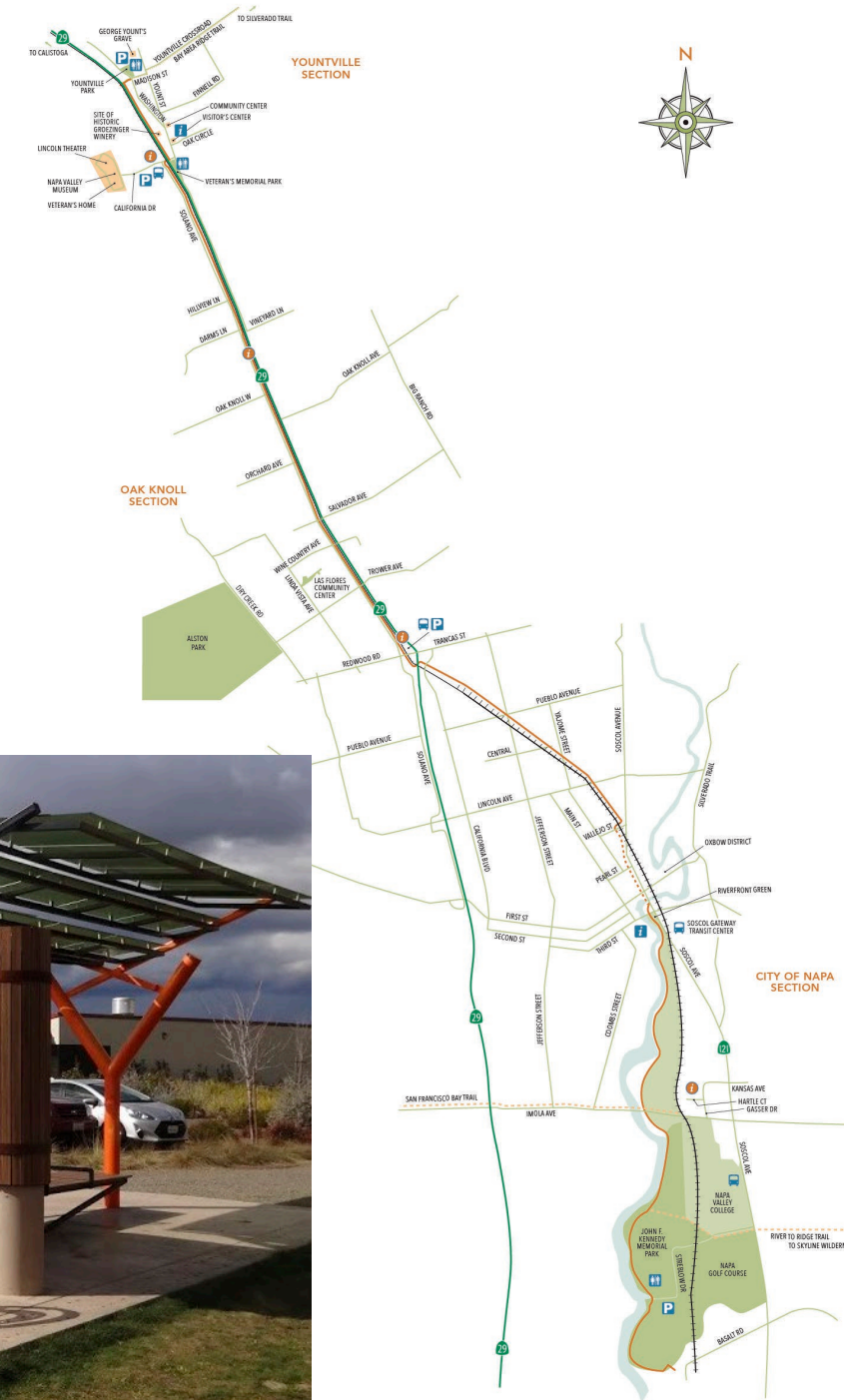
Colorado Springs

- Network of on- and off-street bicycle routes serving downtown and recreational destinations throughout the city
- Custom wayfinding signage



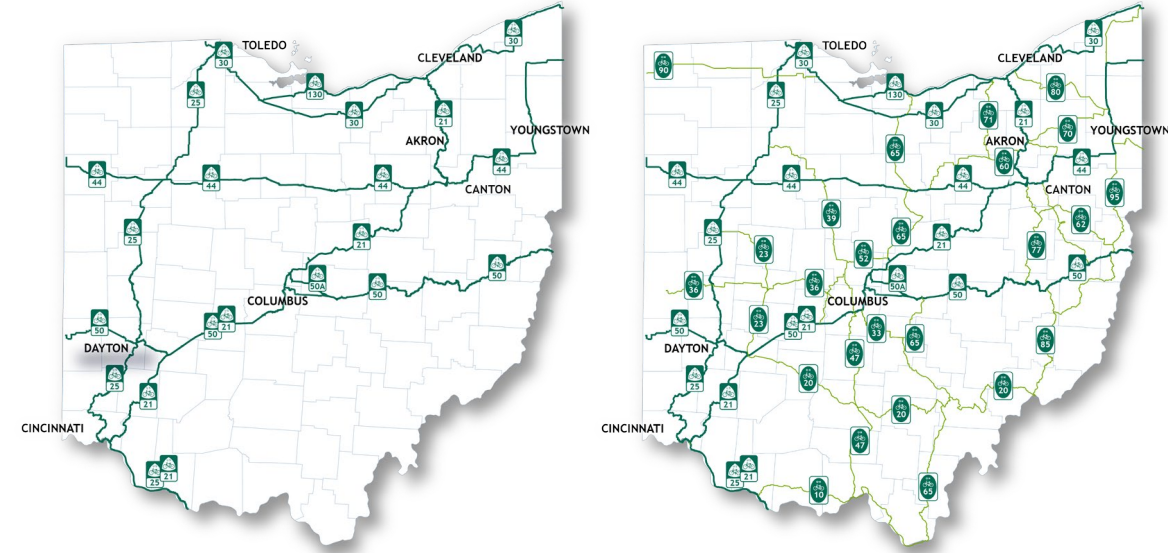
Napa Valley

- Off-street Vine Trail trunk route connecting cities and towns in Napa Valley
- Augmented with on-street bike routes branching off to wineries and other recreational sites
- Custom branding and gateway treatments



Ohio

- Network of 5 US Bike Routes and 17 State Bike Routes (on- and off-street) connecting Ohio's population centers and destinations
- Used for statewide bicycle project prioritization and funding



Discussion



Opportunity in Wyoming

- Well-established outdoor recreation
- Charming and unique communities
- Numerous bike and trails advocacy groups
 - Wyoming Pathways
 - Platte River Trails
 - Cycle Wyoming
 - ...and many more!



Home to High-Profile National Routes and Trails

- **TransAmerica Trail**

- Riverside, Saratoga, Walcott, Sinclair, Rawlins, Jeffrey City, Sweetwater Station, Lander, Boulder Flats, Fort Washakie, Willow Creek, Dubois, Moran, Grand Teton and Yellowstone NPs

- **Great Divide Mountain Bike Route**

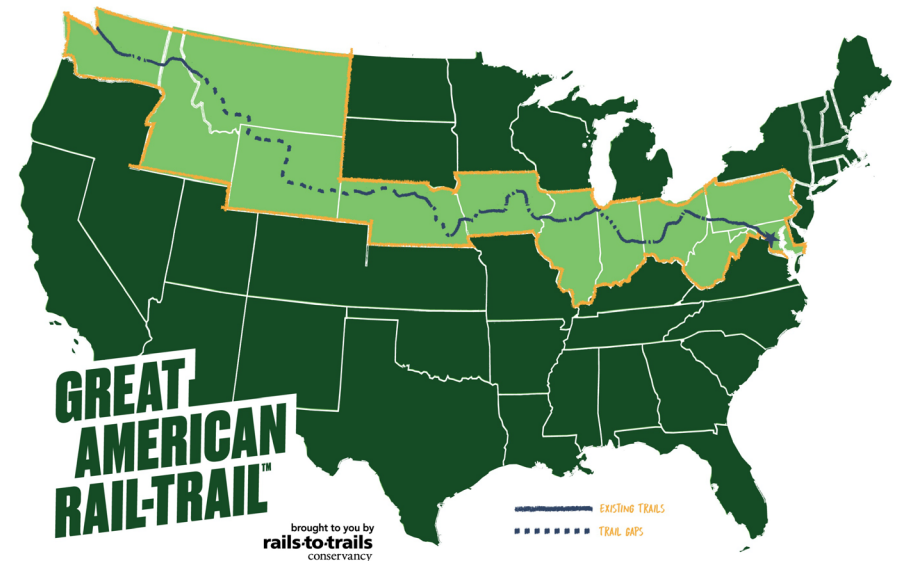
- Rawlins, Atlantic City, South Pass City, Boulder, Pinedale, Cora, Dunior, Moran, Grand Teton and Yellowstone NPs

- **Park, Peaks, and Prairies Route**

- Beulah, Aladdin, Hulett, Carlile, Moorcroft, Rozet, Wyodak, Gillette, Wildcat, Spotted Horse, Leiter, Clearmont, Ucross, Buffalo, Meadowlark Lake, Ten Sleep, Manderson, Basin, Otto, Burlington, Cody, Wapiti, Yellowstone NP

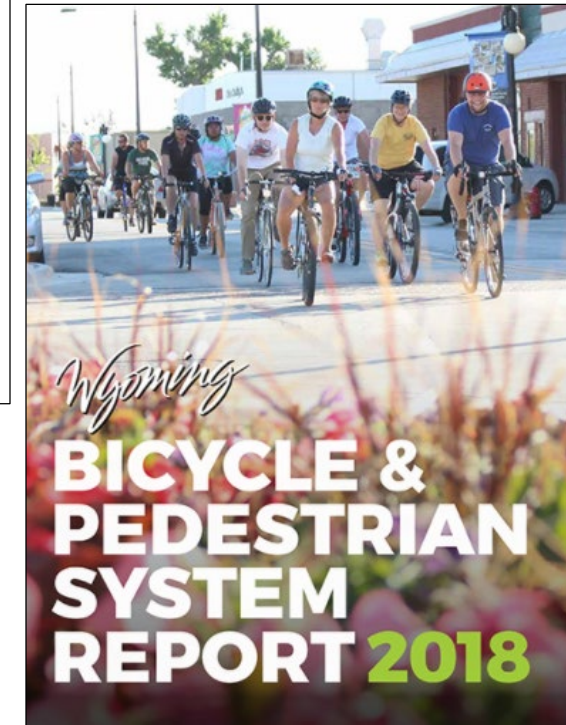
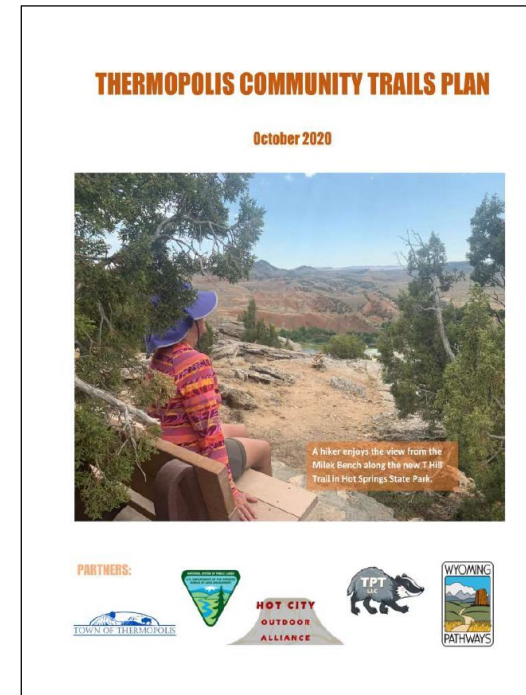
- **Great American Rail Trail**

- Douglas, Glen Rock, Evansville, Casper, Mills, Thermopolis, Worland, Greybull, Cody, Yellowstone NP, TBD additional segments



Wyoming Case Studies

- Thermopolis Community Trails Plan
 - Inventory of existing on-street routes
 - Trail route planning and design guidance
- Wyoming Bicycle & Pedestrian System Report 2018
 - Inventory on existing on- and off-street routes statewide
 - Rural and small town bicycle planning guidance



Thank You



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