

# Complete Networks with Trails: Federal Transportation Funds International Trails Summit — April 19, 2023 Federal Highway Administration Shari Schaftlein, Director, Office of Human Environment Christopher Douwes, Community Planner, Office of Human Environment

#### **Disclaimer**

Except for any statutes or regulations cited, the contents of this presentation do not have the force and effect of law and are not meant to bind the States or the public in any way. This presentation is intended only to provide information regarding existing requirements under the law or agency policies.



# **FHWA Policy**

# **Bipartisan Infrastructure Law Priorities**

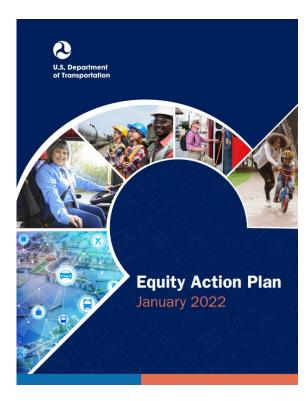
- Safety
- Complete Streets
- Americans with Disabilities Act
- Equity
- Transit Flex
- Transferability
- Climate Change and Sustainability
- Labor and Workforce





# **Equity**

- USDOT Equity Action Plan: <a href="https://www.transportation.gov/priorities/equity/equity-action-plan">https://www.transportation.gov/priorities/equity/equity-action-plan</a>
- Justice40 Initiative
- Executive Orders <u>13985</u> and <u>14091</u>.
- FHWA Environmental Justice Reference Guide: <a href="https://www.fhwa.dot.gov/environment/environmental\_justice/">https://www.fhwa.dot.gov/environment/environmental\_justice/</a>
- TA Guidance webpage resources: https://www.fhwa.dot.gov/environment/transportation\_alternatives/guidance/
- Transportation Disadvantaged Census Tracts
- EJ Screen: Environmental Justice Screening and Mapping Tool
- Screening Tool for Equity Analysis of Projects (STEAP)
- Resources through advocacy organizations



**USDOT** Equity Action Plan

# U.S. Department of Transportation

# **DOT Navigator**

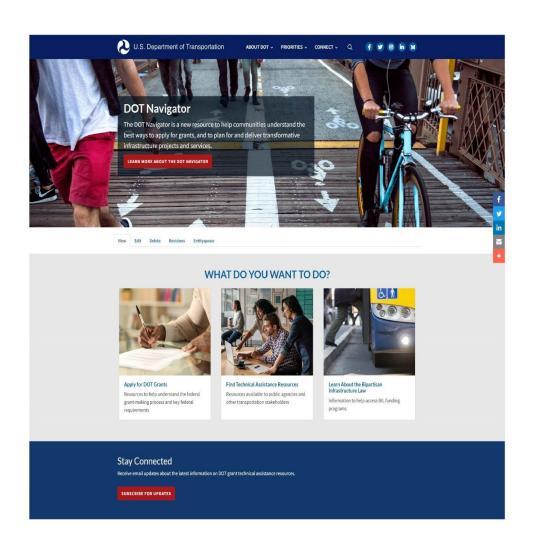
Coordinating and Improving Access to the range of DOT Technical Assistance Resources

https://transportation.gov/dot-navigator



#### **Sample Grant Application Resources**

- Overview of DOT Funding and Financing
- USDOT Discretionary Grant Process
- Understanding Federal Match Requirements
- Federal Tools to Determine Disadvantaged Community Status
- Maximizing Award Success
- Is Federal Funding the Right Fit for My Organization?
- Technical Assistance Resources





#### **Technical Assistance**

Thriving Communities Program (TCP) – technical assistance, planning and capacity building to advance a program of projects that support transportation, economic opportunity, and community development goals. Four capacity builders will support 64 communities in 42 States, including 6 Tribal nations and Puerto Rico. <a href="https://transportation.gov/thriving-communities">https://transportation.gov/thriving-communities</a>

Contact: <a href="mailto:thrivingcommunities@dot.gov">thrivingcommunities@dot.gov</a>

Pedestrian and Bicycle Information Center (PBIC) develops and shares resources vital to advancing mobility, access, equity, and safety for pedestrians and bicyclists. <a href="https://www.pedbikeinfo.org/">https://www.pedbikeinfo.org/</a>

Contact: pbic@pedbikeinfo.org

Local Technical Assistance Programs (LTAP) provide training, technical assistance, and tech transfer in each State. <a href="https://www.fhwa.dot.gov/clas/ltap/">https://www.fhwa.dot.gov/clas/ltap/</a>

**Tribal Technical Assistance Programs (TTAP)** provide technical assistance to Tribal governments to administer transportation programs. <a href="https://highways.dot.gov/federal-lands/programs-tribal/partners-resources/ttap">https://highways.dot.gov/federal-lands/programs-tribal/partners-resources/ttap</a>





#### **Technical Assistance**

Reconnecting Communities Program (RCP) – Planning Grants and Capital

**Construction Grants:** The USDOT anticipates focusing its technical assistance on recipients that demonstrate need as underserved, overburdened, and disadvantaged communities. Technical assistance is for building organizational or community capacity to engage in transportation planning and to identify innovative solutions to infrastructure challenges, including reconnecting communities that are bifurcated by eligible facilities or lack safe, reliable, and affordable transportation options.

https://www.transportation.gov/grants/reconnecting-communities

Andrew.Emanuele@dot.gov

FY 2022 Awards announced on February 28.

#### **Contact:**





# **Technical Assistance – Coming Soon!**

Active Transportation Infrastructure Investment Program (ATIIP): This FHWA program will distribute \$45 million via competitive grants to State and local governments or organizations to construct projects that provide safe and connected active transportation facilities as part of an active transportation network or active transportation spine. Technical Assistance will be available. Contact: Darren.Buck@dot.gov

**Build America Center:** This USDOT program will offer educational programs, information, and resources for transportation agencies in all areas of alternative and innovative project financing and delivery. It will help public entities access technical assistance in financial planning and innovation project delivery methods, as well as provide education and training. <a href="https://www.transportation.gov/buildamerica/about/build-america-institute/build-america-center">https://www.transportation.gov/buildamerica/about/build-america-center</a>

**Neighborhood Access & Equity Grant Program:** This \$3.5 billion FHWA program establishes discretionary grants for removing, replacing, or retrofitting highways and freeways to improve connectivity in communities and for planning and capacity building to increase community involvement in transportation planning and related activities. It prioritizes grants that fund projects in economically disadvantaged communities or that meet other criteria. **Contact:** <a href="mailto:Bernadette.Dupont@dot.gov">Bernadette.Dupont@dot.gov</a>

For updates go: https://www.fhwa.dot.gov/livability/index.cfm

# **Complete Streets / Complete Networks**

- "A complete street is safe, and feels safe, for everyone using the street." FHWA Deputy Administrator Stephanie Pollack
- Complete Streets create a *safe*, *connected*, and *equitable* transportation network for travelers of all ages and abilities, particularly those from underserved communities facing historic disinvestment.



# BIL/IRA/Budget Provisions that Support Walking/Bicycling and Trails

#### Existing programs

- National Highway Performance Program
- Surface Transportation Block Grant Program
- Transportation Alternatives Set-Aside
- Recreational Trails Program
- Highway Safety Improvement Program
- Congestion Mitigation and Air Quality
   Improvement Program
- Federal Lands Transportation Program
- Federal Lands Access Program
- Tribal Transportation Program
- National Scenic Byways Program (discretionary)
- Pedestrian and Bicycle Funding Opportunities: <u>https://www.fhwa.dot.gov/environment/bicycle\_pedestrian/funding/funding\_opportunities.cfm</u>

#### New programs

- Reconnecting Communities (disc)
- Safe Streets and Roads for All (disc)
- Bridge Formula Program
- Carbon Reduction Program (formula)
- PROTECT (formula)
- Active Transportation Infrastructure Investment Program (disc)
- Wildlife Crossings Program (disc)
- Neighborhood Access and Equity (disc)

#### Misc. Provisions

- National Roadway Safety Strategy
- Complete Streets Report to Congress
- Manual on Uniform Traffic Control Devices
- Vulnerable Road Users Report to Congress

#### Pedestrian and Bicycle Funding Opportunities: U.S. Department of Transportation Transit, Safety, and Highway Funds

September 9, 2022

This table indicates potential eligibility for pedestrian and bicycle activities and projects under U.S. Department of Transportation surface transportation funding programs. Activities and projects need to meet program eligibility requirements. See notes and basic program requirements below, with links to program information. Project sponsors should integrate the safety, accessibility, equity, and convenience of walking and bicycling into surface transportation projects.

See notes and basic program requirements below, with links to program	gram in	formati																											
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		Key: \$ = Activity may be eligible. Restrictions may apply, see program notes and guidance\$ = Eligi																											
	OST Programs								Federal Transit NHTSA						Federal Highway Administration    Federal Highway Administration														
Activity or Project Type	RAISE	INFRA	RCP	SS4A	Thrive	RRIF	TIFIA	FTA	ATI	TOD	AoPP	402	405	BFP	CRP	CMAQ	HSIP	RHCP	NHPP	PRO	STBG	TA	RTP	SRTS	PLAN	NSBP	FLTTF	TTP	FTPSF
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Access enhancements to public transportation (benches, bus pads)	\$	\$	S	\$		-\$	-\$	\$	\$		-\$		П		\$	s			\$	\$	\$	\$				\$	s	\$	
Americans with Disabilities Act (ADA)/504 Self Evaluation / Transition				\$	TA					s	\$				\$						\$	\$	\$		s		S	\$	
Plan			$\perp$						Ш				Ш															Ш	
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Bicycle plans			-\$	\$				\$		S	\$				\$					\$	\$	\$		\$	S		S	\$	\$
Bicycle helmets (project or training related)												\$	Ш				Ш				\$	\$SRTS		\$				\$	
Bicycle helmets (safety promotion)																					\$	\$SRTS	<u> </u>	\$				\$	
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Bicycle parking (see Bicycle Parking Solutions)	-\$	-\$	S	\$		-\$	\$	\$	\$		-\$				\$	S			\$		\$	\$	\$	\$		\$	S	\$	
Bike racks on transit	-\$		S	-\$			-\$	\$	\$		-\$				\$	S					\$	\$					S	\$	
Bicycle repair station (air pump, simple tools)	-\$		S	-\$		-\$	-\$	\$	\$						\$						\$	\$					S	\$	
Bicycle share (capital and equipment; not operations)	-\$	-\$	S	-\$		-\$	-\$	\$	\$						\$	S			\$		\$	\$					S	\$	
Bicycle storage or service centers (example: at transit hubs)	-\$		S	-\$		-\$	\$	\$	\$						\$	S					\$	\$					S	\$	
Bridges / overcrossings for pedestrians and/or bicyclists	\$	\$	s	\$		-\$	-\$	\$	\$					\$	\$	S	\$	S	\$	\$	\$	\$	\$	\$			S	\$	\$
Bus shelters and benches	\$	\$	S	-\$		-\$	-\$	\$	\$						\$	S			\$	\$	\$	\$				\$	S	\$	
Coordinator positions (State or local) (limits on CMAQ and STBG)				\$							\$					\$					\$	\$SRTS	3	\$				\$	
Community Capacity Building (develop organizational skills/processes)				\$	TA					S	\$														S			\$	
Crosswalks for pedestrians, pedestrian refuge islands (new or retrofit)	\$	\$	S	\$		-\$	-\$	\$	\$						\$	-\$	\$	S	\$	\$	\$	\$	\$	\$		\$	S	\$	\$
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Counting equipment		\$	S	\$			-\$	\$	\$								\$		\$		\$	\$	\$	\$	S		S	\$	\$
Data collection and monitoring for pedestrians and/or bicyclists	\$	\$	s	\$			-\$	\$	\$	s	\$				\$		\$		\$		\$	\$	\$	\$	S		S	\$	\$
Emergency and evacuation routes for pedestrians and/or bicyclists	\$	\$	S	-\$			\$	\$	\$	-\$	-\$				\$				\$	\$	\$	\$	\$	\$			S	\$	
Historic preservation (pedestrian and bicycle and transit facilities)	-\$	1	-\$	-\$		-\$	-\$	\$	\$		-\$				\$						\$	\$				\$	S	\$	
Landscaping, streetscaping (pedestrian/bicycle route; transit access); related amenities (benches, water fountains); usually part of larger project	-\$	-\$	-\$	-\$		-\$	-\$	\$	\$	-\$	-\$				\$				-\$	\$	\$	\$					S	\$	
Lighting (pedestrian and bicyclist scale associated with pedestrian/bicyclist project)	\$	\$	S	\$		-\$	-\$	\$	\$		-\$				\$	-\$	\$	s	\$	\$	\$	\$	\$	\$		\$	s	\$	\$
Maps (for pedestrians and/or bicyclists)				\$				\$	\$	s	-\$				\$	s					\$	\$		\$	s	\$		\$	
Micromobility projects (including scooter share)	\$		s	-\$		-\$	-\$				-\$		Ιİ		\$	s					\$	\$					s	\$	
Paved shoulders for pedestrian and/or bicyclist use	\$	-\$	s	\$		-\$	-\$							\$	\$	s	\$	s	\$	\$	\$	\$		\$		\$	s	\$	\$
Pedestrian plans	\$	-\$	-\$	\$				\$		s	\$		i i		\$					\$	\$	\$		\$	s		S	\$	\$
Ratl at-grade crossings	\$	\$	s	-\$		\$	\$	\$	\$						\$		\$	s	\$	\$	\$	\$	\$	\$			s	\$	\$
Recreational trails	\$		S	-\$			-\$						i i							\$	\$	\$	\$			\$	S	\$	
Resilience Improvements for pedestrians and bicyclists	\$	\$	s	-\$		-\$	-\$			s	-\$			-\$	-\$	-\$			\$	\$	\$	\$	\$	\$		\$	s	\$	
Road Diets (pedestrian and bicycle portions)	\$	\$	s	\$		-\$	\$								\$	S	\$		\$	\$	\$	\$		\$			S	\$	\$

## **Connecting Communities: Integrating Transportation and Recreation**

- We can connect and integrate transportation and recreation infrastructure.
- Trails: spines for transportation networks.
- "Transportation" and "Recreation" aren't an either/or!









# **Bridges and Tunnels: Essential Links for Networks**

Long life spans: Plan for future demand, use, and reuse.

Bridges connect communities.













# **Tunnels and Underpasses: Essential Links for Networks**

Reconnect communities.











# Recreational trails used for transportation

- Network spines: rail-trails and other shared use paths.
- No Federal law or regulation requires pavement.
- Accessibility requires "firm and stable".
- No Federal law or regulation prohibits equestrian use.



# **Highway Cap Parks**

- Transportation purpose
- Trail connectivity
- Trailside and trailhead facilities



## The Benefits of Highway Cap Parks: A Report to Congress

- Transportation Benefits: safety and connectivity.
- Economic Benefits: property value and business opportunities
- Social Benefits: cohesion, connections, access to parks and green space
- Environmental Benefits: noise reduction; air quality improvement; stormwater filtration; reduced urban heat island effects; carbon sequestration from park landscaping.







# Congestion Mitigation and Air Quality Improvement (CMAQ) Program

- Federal-aid program to help fund transportation projects or programs that contribute to attainment or maintenance of the National Ambient Air Quality Standards.
- Provides funding to State DOTs and MPOs.
- State DOTs and MPOs make planning, programming, and project selection decisions.
- Projects must meet applicable requirements.
- No Federal role in project selection.



# **CMAQ Eligibility**



- Three basic eligibility elements of CMAQ:
  - Transportation project
  - **& Emissions reduction**
  - \* Nonattainment or maintenance area

- Eligible project types
  - Transit improvements
  - Traffic flow improvements
  - Shared ride services
  - Demand management
  - ❖ Bicycle and pedestrian projects
  - ❖ Alternative fuels
  - Inspection and maintenance programs
  - Freight services
  - Experimental pilots
  - Diesel retrofits
  - Anti-idling facilities
- For more information, visit FHWA's CMAQ website
   <a href="https://www.fhwa.dot.gov/environment/air\_quality/cmaq/">https://www.fhwa.dot.gov/environment/air\_quality/cmaq/</a>
- View CMAQ 101 video: <a href="https://www.youtube.com/watch?v=XKXcs0WtNHA">https://www.youtube.com/watch?v=XKXcs0WtNHA</a>

# Background

- Nearly 40,000 projects since 1992: \$14.6 billion
- 10% of Surface Transportation Block Grant (STBG) Program: \$1.4 billion/year
- Projects also eligible for STBG funds.
- Up to \$84 million/year set-aside for Recreational Trails Program
- See <a href="https://www.fhwa.dot.gov/environment/transportation-alternatives/">https://www.fhwa.dot.gov/environment/transportation-alternatives/</a>
- Guidance issued March 30, 2022





#### **Suballocation**

#### **State's Transportation Alternatives Set-Aside**

#### Set-Aside for Recreational Trails Program (unless Governor opts out)

59% Suballocated to sub-State areas based on relative population size.

Cannot be transferred to other categories.

41% any area of State: State competitive process.

- State may develop process to suballocate 100%.
- Funds available for transfer only after State holds a competitive process.

Urbanized areas with populations over 200,000.

- Suballocated to each urbanized area over 200,000 by relative population.
- MPOs for urbanized areas select projects.

Urbanized areas with population 50,000 to 200,000.

Urban areas with population 5,000 to 49,999.

Areas with population less than 5,000.

#### **NEW: State Technical Assistance**

- State may use up to 5% of funds to provide technical assistance.
- Purpose:
  - Administer program.
  - Provide technical assistance to potential applicants.
  - Assist application process, planning, design, NEPA, permits, project management.
- State may hire staff or issue contracts to other entities.
  - State may assist MPOs with their processes.
- May include a State Safe Routes to School coordinator.



#### **Transfers: New Provisions**

#### **Transfers to other Federal-aid programs**

- NEW: Transfers out only allowed from the 41% not suballocated.
- NEW: Before a State may transfer funds out, it must:
  - Hold competitive grant opportunity.
  - Offer and provide technical assistance to applicants.
  - Demonstrate lack of suitable applications.

#### **Other Transfers**

- States may transfer other funds to TA without new restrictions.
- Transit Flex: States may transfer selected projects to FTA to administer.

#### **Federal Share**

- Generally: 80% Federal share, with <u>sliding scale</u>
- Flexibility:
  - HSIP funds credit, programmatic Federal share, financial controls
  - Some Safety projects may be up to 100%
  - Projects on Federal lands
  - Tribal and Federal land transportation funds may match
  - In-kind match is permitted (23 U.S.C. 323(c)).
  - Recreational trails using FHWA apportioned funds use RTP match.
  - RTP funds may match or be matched by other Federal funds.



- Competitive project selection process
- TA Set-Aside projects must be selected through a competitive process submitted by eligible entities.
- Metropolitan Planning Organizations (MPOs) select projects for large urbanized areas (over 200,000).
- State DOTs select projects for "any area", small urbanized, small urban, and rural funds.
- States may develop a process to further suballocate.
- New: Prioritization for high-need areas.





Top photo source: Red Creek Bridge over I-75, near MI-134. Coalition for Recreational Trails, www.americantrails.org/awards/CRT05awards/redcreek.html.

Bottom photo source: Marjorie Harris Carr Cross Florida Greenway Land Bridge over I-75, south of Ocala FL, www.americantrails.org/i/resourceimages/landbridge2.jpg.

### Eligible Project Sponsors

- Local governments;
- Regional transportation authorities;
- Transit agencies;
- Natural resource or public land agencies;
  - May include Federal, State, or local public land agencies
- School districts, local education agencies, or schools;
- Tribal governments;
- New: Metropolitan Planning Organization for small urbanized area (under 200,000);
- Nonprofit entity (previous restrictions removed)
- Any other local or regional governmental entity with responsibility for oversight of transportation or recreational trails (other than an MPO or a State agency) that the State determines to be eligible...
- New: State DOT, only at request of another eligible entity.
- RTP project sponsors determined by States.



Photo source: Stuart Macdonald,

American Trails: www.americantrails.org

#### Eligible Projects

The TA Set-Aside authorizes funding for programs and projects defined as *transportation alternatives*, including:

- On- and off-road pedestrian and bicycle facilities, including trails for nonmotorized use.
- Construction of turnouts, overlooks, and viewing areas.
- Community improvement activities:
  - Historic preservation
  - Vegetation management
- Environmental mitigation for stormwater and habitat connectivity
- Recreational trail projects
- Safe routes to school (SRTS) projects
- Vulnerable Road User Safety Assessments





Photo source: Pedestrian and Bicycle Information Center: <a href="www.pedbikeimages.org">www.pedbikeimages.org</a>.

Top: Olympia, WA, 2006 by Dan Burden Bottom: Ft Pierce, FL, 2006 by Dan Burden

#### Related Eligibility



#### TA eligibility includes:

- All projects eligible under SRTS and RTP
- All pedestrian and bicycle projects eligible under 23 U.S.C. 217

#### 23 U.S.C. 217 includes:

New: Shared micromobility; new definition for electric bicycles

#### STBG eligibility includes:

- All projects eligible under TA Set-Aside
- Newly Clarified: STBG allows recreational trail maintenance and restoration

# **Treatment of Projects**

- Generally: STBG projects, including TA Set-Aside, must be treated as projects on a Federal-aid highway.
- Excludes: Recreational Trails Program (RTP) projects.

#### **New under BIL:**

 Any recreational trail funded under 23 U.S.C. 104(b) to use same procedures State uses for RTP projects.



# Recreational Trails Program Purpose



- Provides funds to the States to develop and maintain recreational trails for all trail uses.
- Usually administered through a State resource agency.
- \$1.5 billion for 26,500 projects since 1993.
- Up to \$84.1 million/year, apportioned at 2009 levels.
- Part of \$281 million in Fed motor fuel excise tax paid by OHV users.
- States solicit and select projects for funding.
- 80% Federal share, with flexibility.
  - RTP funds may match or be matched by other Federal funds.
  - Some in-kind may be donated prior to project approval.
- Project sponsors are encouraged to use <u>Youth Corps</u>.
- No changes in BIL except new provision to treat any recreational trail project as an RTP project.



State Trail Administrators build a boardwalk, White Clay Creek State Park, DE, September 21, 2005. Source: FHWA.

# RTP Eligible Projects

- Maintain and restore existing trails (and bridges).
- Develop and rehabilitate trailside and trailhead facilities.
- Purchase and lease trail construction and maintenance equipment.
- Construct new trails (limits on Federal lands).
- Acquire easements or property for trails (willing seller only: Condemnation is prohibited).
- Trail assessments for accessibility and maintenance.
- Trail safety and environmental protection education.
- State administrative costs.
- RTP projects also eligible under TA Set-Aside and STBG.







Top left: Meduxnekeag River Bridge (Maine): www.americantrails.org/awards/CRT09awards/Meduxnekeag-Trail-Maine-09.html Top right: Western Wyoming Avalanche detection. <a href="https://www.americantrails.org/awards/CRT04awards/WWyoAvalanche.html">www.americantrails.org/awards/CRT04awards/WWyoAvalanche.html</a> Bottom: NOHVCC Trailer (Tom Umphress, NOHVCC)

# RTP Project Examples



#### **Recreational Trails Program Annual Report**

https://www.fhwa.dot.gov/environment/recreational trails/

\$1.5 billion for 26,500 projects since 1993

#### **Recreational Trails Program Database**

- More than 26,500 project examples
- Searchable by State or project type
- See <a href="http://recreationaltrailsinfo.org/">http://recreationaltrailsinfo.org/</a>



Photo source: Peter Axelson, Beneficial Designs

Safe Routes to School (SRTS)

- New: SRTS codified as 23 U.S.C. 208
- New: Expanded to K-12 (from K-8)
- New: Expanded eligibility under HSIP
- No dedicated SRTS funding, so references in section 208 related to apportionments cannot be required.
- SRTS projects broadly eligible under STBG and TA Set-Aside.



# **Youth Corps and Workforce Development**

- MAP-21 Section 1524, Youth Corps, is still in effect.
- DOT encourages States to have contracts and cooperative agreements with qualified Youth Service and Conservation Corps.
- TA projects, trails, pedestrian and bicycle, safe routes to school, byways.
- Corps provide workforce development training.
- Agencies can sole source contracts and agreements to qualified Corps.
- <a href="https://www.fhwa.dot.gov/environment/transportation\_alternatives/guid">https://www.fhwa.dot.gov/environment/transportation\_alternatives/guid</a> ance/youth workforcedev 2018.cfm
- The Corps Network: <u>Trails and Transportation</u> webpage.



# Trail Planning and Design Guidance and Research

- Many Trail Resources available
- RTP <u>Publications</u> Page
- Rails-with-Trails: Best Practices and Lessons Learned
- Many Forest Service documents
- NEW: Trails and Resilience: Review of the Role of Trails in Climate Resilience and Emergency Response
- NEW: The Future of E-Bikes on Public Lands Research Study



# Pedestrian and Bicycle Planning and Design Guidance and Research

- Many Publications and Resources available
- Coming Soon:
  - FHWA Guidance: Bicycle and Pedestrian Planning, Program, and Project Development
  - Ebike Literature Review and Case Studies



# USDOT Strategic Goal, and New Strategic Agenda





• Increase the percentage of person trips by transit and active transportation modes from roughly 4% in 2020 to 6%.

That's 50% more!

CAPACITY BUILDING







Networks

Achieve safe, accessible, comfortable, and connected multimodal networks in communities throughout the U.S.

#### Equity

Promote equity throughout the transportation planning, design, funding, implementation, and evaluation process. Safety

Improve safety for people walking and bicycling.

#### Trips

Get more people walking and and bicycling.

U.S. Department of Transportation

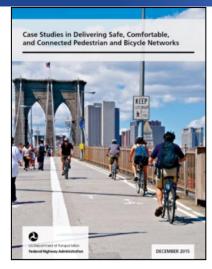
Federal Highway Administration

# Recent FHWA Pedestrian and Bicycle Resources



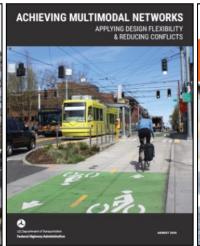




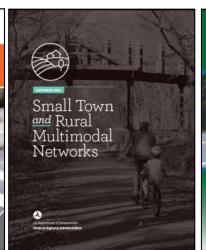


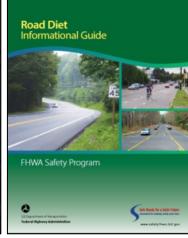














<sub>ms</sub>All available for download at:

https://www.fhwa.dot.gov/environment/bicycle\_pedestrian/

## Planning and Designing Bicycle Facilities for All Ages and Abilities









U.S. Department of Transportation

**Federal Highway Administration** 

Office of International Programs

Note: Percentages represent the level of comfort that people feel bicycling, according to peer-reviewed surveys as recently as 2016.

Source: FHWA Bikeway Selection Guide: https://safety.fhwa.dot.gov/ped\_bike/tools\_solve/docs/thwasa18077.pdf

For more information, please visit FHWA's Bicycle and Pedestrian Program webpage: https://www.fhwa.dot.gov/environment/bicycle\_pedestrian/

# Bike Network Mapping Idea Book



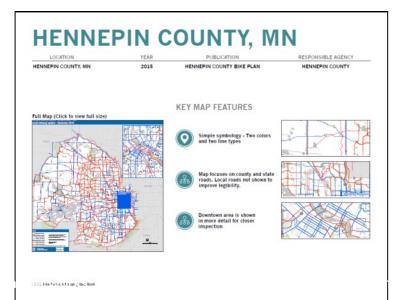
# Provides examples of how bikeway map designers communicate:

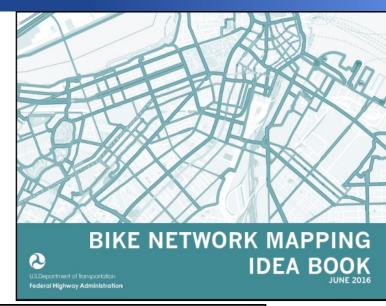
- Connected networks
- Mapping techniques
- Local context

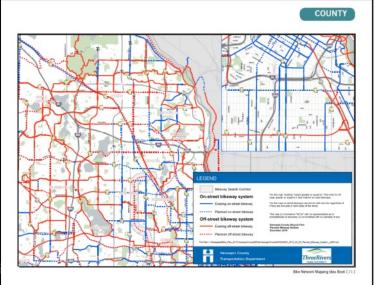
Available at:

https://www.fhwa.dot.gov/environment/bicycle\_pedestrian/publications/

bikemap\_book/







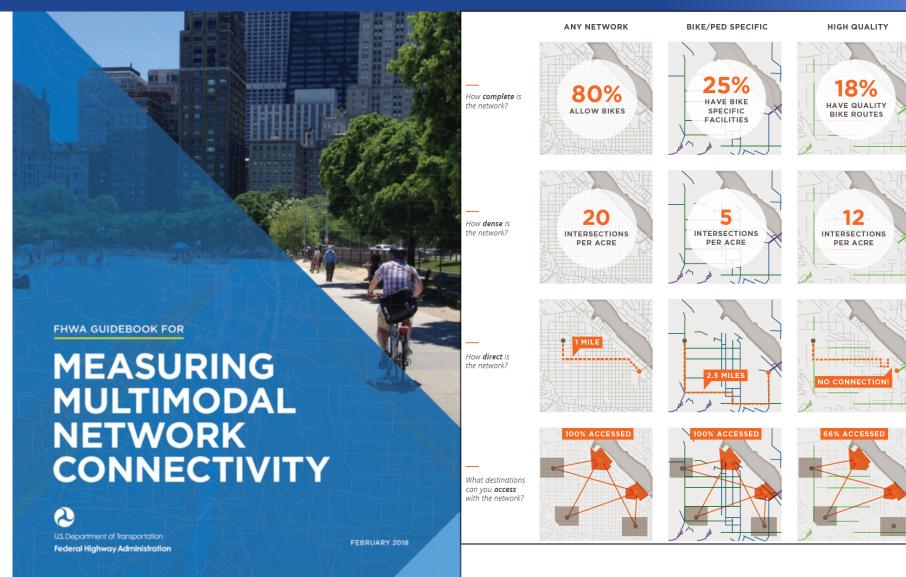


## FHWA Guidebook for Measuring Multimodal Network Connectivity



#### Images from:

https://www.fhwa.dot.gov/environment/bicycle\_pedestrian/publications/multimodal\_connectivity/





# Achieving Multimodal Networks: Applying Design Flexibility and Reducing Conflicts



#### **ACHIEVING MULTIMODAL NETWORKS**

APPLYING DESIGN FLEXIBILITY & REDUCING CONFLICTS



- Provide design flexibility, while reducing multimodal conflicts and achieving connected networks.
- Help practitioners address topics such as:
  - Intersection design
  - Road diets
  - Pedestrian crossing treatments
  - Transit and school access
  - Freight
  - Accessibility

### FHWA Small Town and Rural Multimodal Networks

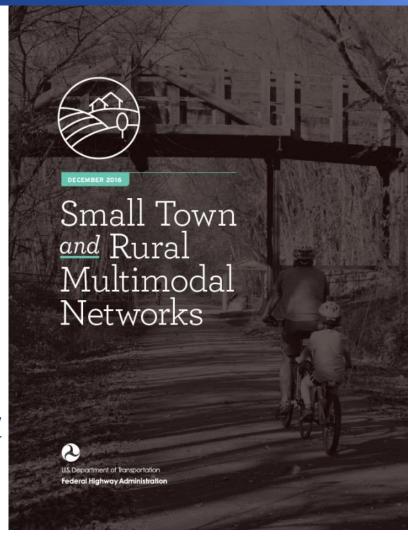


- Provide a bridge between existing guidance on bicycle and pedestrian design and rural practice.
- Encourage innovation in development of safe and appealing networks for bicycling and walking in small towns and rural areas.
- Provide examples of peer communities and project implementation that is appropriate for rural communities.

#### Available at:

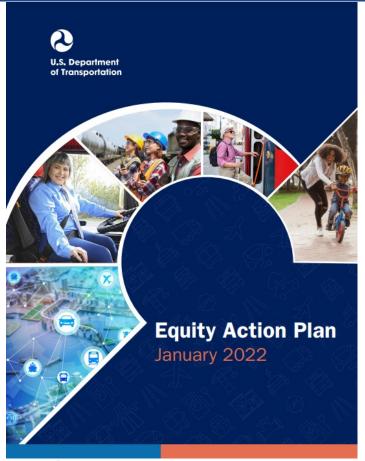
www.fhwa.dot.gov/environment/bicycle\_pedestrian/publications/small\_towns/

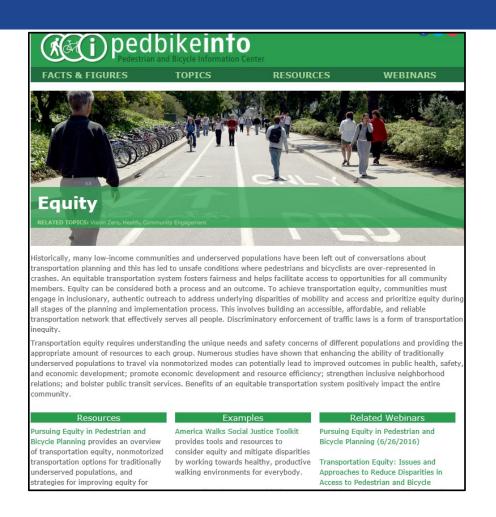




# **Equity**









April 2016

Laura Sandt, Ph.D. Tabitha Combs, Ph.D. Jesse Cohn, MRP

For: U.S. Department of Transportation Federal Highway Administration





Pedestrian and Bicycle Information Center www.pedbikeinfo.org

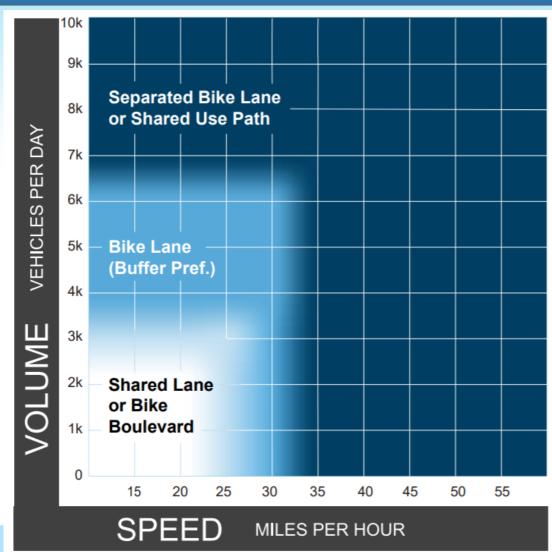


U.S. Department of Transportation Federal Highway Administration Images from: <a href="https://www.transportation.gov/priorities/equity/actionplan">https://www.pedbikeinfo.org/topics/equity.cfm</a>

## **Bikeway Selection Guide**

- Help practitioners make informed decisions about tradeoffs relating to the selection of bikeway types.
- Highlight linkages between the bikeway selection process and the transportation planning process.
- Emphasizes engineering judgment, design flexibility, documentation, and experimentation.
- Available at:

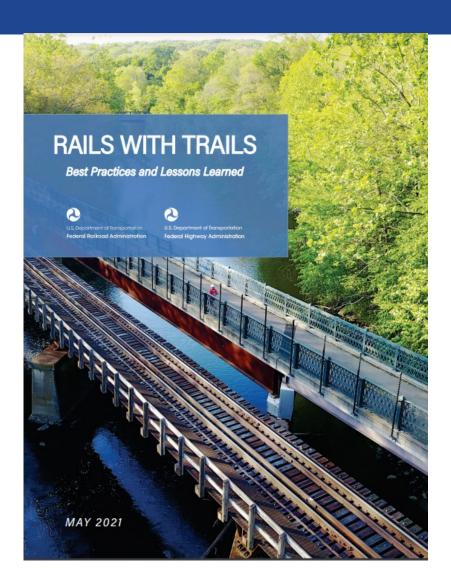
   https://safety.fhwa.dot.gov/ped\_bike/tool
   s solve/docs/fhwasa18077.pdf

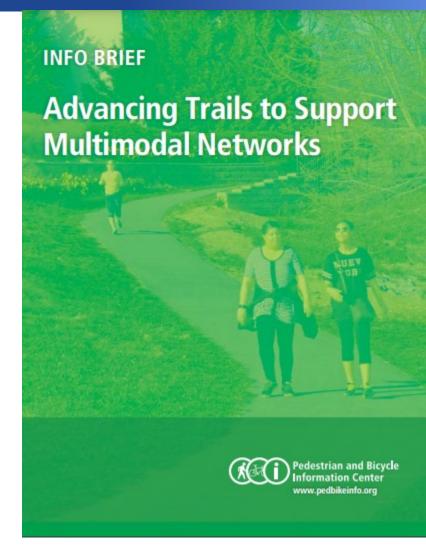


# **Trails**



- Trails are a low-stress and safe bikeway type
- Trails enhance access to transit, and complement it







#### **FHWA Newsletters**



- Human Environment Digest (Monthly):
   <a href="https://www.fhwa.dot.gov/livability/he\_digest/">https://www.fhwa.dot.gov/livability/he\_digest/</a>
  - Every second Thurs of month



- Fostering Multimodal Connectivity Newsletter (Quarterly): <a href="https://www.fhwa.dot.gov/livability/newsletter/">https://www.fhwa.dot.gov/livability/newsletter/</a>
  - Published: Jan 2023, Next: Winter/Spring Edition (April 2023)



- Research Review Newsletter (Quarterly):
   <a href="http://www.fhwa.dot.gov/hep/hep-research/">http://www.fhwa.dot.gov/hep/hep-research/</a>
  - Just published: April 12, 2023.



### **Keys to Success**

**DOT Navigator:** https://www.transportation.gov/dot-navigator

National Roadway Safety Strategy <a href="https://www.transportation.gov/SS4A">https://www.transportation.gov/SS4A</a>

FHWA BIL: https://www.fhwa.dot.gov/bipartisan-infrastructure-law/

FHWA Complete Streets: <a href="https://highways.dot.gov/complete-streets">https://highways.dot.gov/complete-streets</a>

**FHWA Pedestrian and Bicycle Program** 

https://www.fhwa.dot.gov/environment/bicycle\_pedestrian/

**Transportation Alternatives** 

https://www.fhwa.dot.gov/environment/transportation\_alternatives/

**Recreational Trails Program** 

https://www.fhwa.dot.gov/environment/recreational trails/



#### **Contacts**

FHWA Website: <a href="https://www.fhwa.dot.gov/bipartisan-infrastructure-law/">https://www.fhwa.dot.gov/bipartisan-infrastructure-law/</a>

Project Sponsors: Contact your State TA or RTP manager.

States: Contact your FHWA Division office.

- Transportation Alternatives: <u>www.fhwa.dot.gov/environment/transportation\_alternatives/</u>
  - State TA Manager contacts
- RTP: www.fhwa.dot.gov/environment/recreational\_trails/
  - State RTP Administrator contacts

National TA Set-Aside and RTP oversight: Christopher Douwes, Community Planner Transportation Alternatives Recreational Trails Program <u>christopher.douwes@dot.gov</u> 202-366-5013