

Active Transportation Funding and Finance Toolkit: Innovative Strategies for Funding and Financing Bicycle and Pedestrian Projects

Webinar

November 23, 2021



U.S. Department
of Transportation
**Federal Highway
Administration**

Notice

This document is disseminated under the sponsorship of the U.S. Department of Transportation in the interest of information exchange. The U.S. Government assumes no liability for the use of the information contained in this document. The U.S. Government does not endorse products or manufacturers. Trademarks or manufacturers' names appear in this report only because they are considered essential to the objective of this document. The contents of this report reflect the views of the authors, who are responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official policy of the U.S. Department of Transportation. This report does not constitute a standard, specification, or regulation. Images in the report are intended to serve as examples of the range of real-world existing conditions; they are not limited to best practices or approved designs or behaviors and, in some cases, may reflect conditions that are not recommended.

Non-Binding Contents

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

Agenda

- Welcome + Introductions
- Toolkit Content + State of the Practice
- Project Example: Austin Mobility Bonds
- Project Example: The Hampline
- Project Example: The Doodle Trail
- Question + Answer Session



U.S. Department
of Transportation

**Federal Highway
Administration**

Poll Questions

Go to www.menti.com and use the code 71 65 15 7

 Mentimeter

Poll

Go to
www.menti.com

Enter the code
71 65 15 7



Or use QR code



U.S. Department
of Transportation

**Federal Highway
Administration**

FHWA

Welcome and Introductions

- Shari Schaftlein, Director, Office of Human Environment
- Mark Sullivan, Director, Center for Innovative Finance Support



U.S. Department
of Transportation

**Federal Highway
Administration**

Acknowledgements

Toolkit Stakeholder Review Panel

- Amber Dallman, Minnesota DOT
- Shaleen Miller, University of North Carolina at Greensboro
- Paulo Nunes-Ueno, Nunes-Ueno Consulting (Seattle, WA)
- Kyle Wagenschutz, People for Bikes



U.S. Department
of Transportation

**Federal Highway
Administration**

FHWA Resources for Building and Maintaining Connected Multimodal Networks



https://www.fhwa.dot.gov/environment/bicycle_pedestrian/publications/

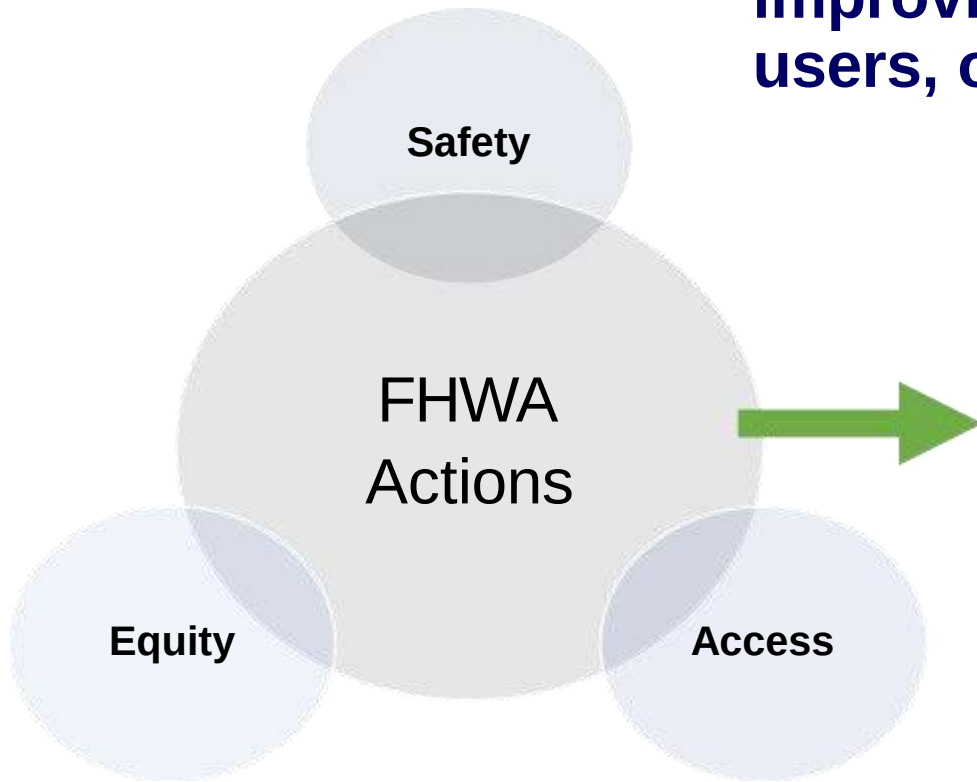


U.S. Department
of Transportation

**Federal Highway
Administration**

Complete Streets

A complete streets approach means **improving safety and access for all road users, on every FHWA-funded project.**



1. Update FHWA processes
2. Educate and train practitioners
3. Support data initiatives



Source: [National Complete Streets Coalition - Smart Growth America](#)

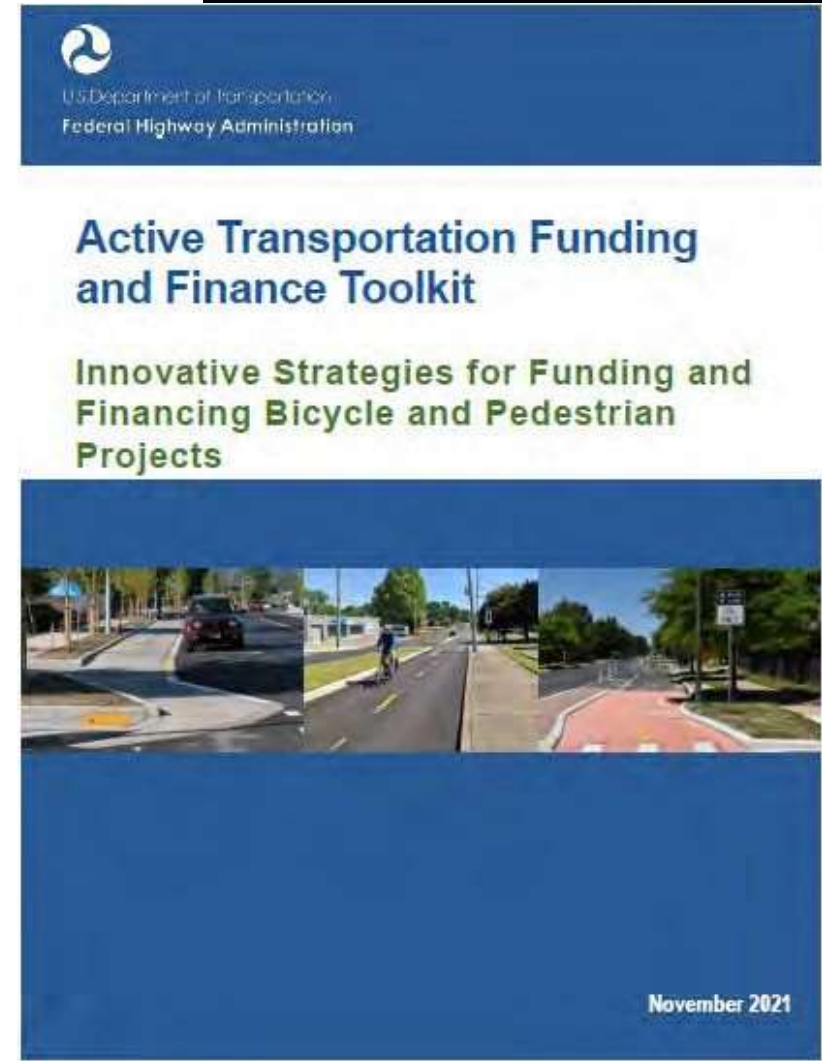


U.S. Department
of Transportation

**Federal Highway
Administration**

Context for Toolkit Development

- **Bike and Pedestrian Infrastructure, Senate Report 115-268, Page 46**
- *The Committee recognizes the importance of bicycle and pedestrian infrastructure to the mobility and livability of communities. The TIFIA program allows for innovative finance partnerships between public, private and nonprofit partners to improve bicycle and pedestrian safety and access. The Committee directs the Department to compile, analyze, and issue best practices for innovative finance strategies to better inform state agencies of available financing options through the Department's existing programs.*

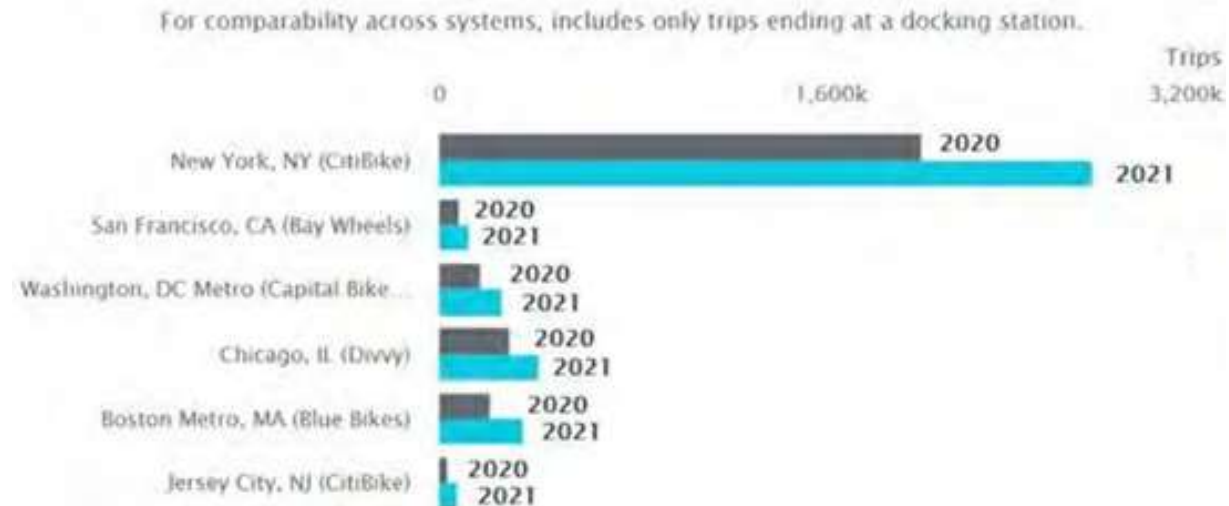


Changing Context for Active Transportation Implementation

[Pedbikeinfo.org](https://pedbikeinfo.org) link to tracking list of local actions to support walking and bicycling



Docked Bikeshare Ridership on Top 6 Largest Systems in October



Source: [BTS Effects of COVID-19 on Bikeshare \(Docked and Dockless\) and E-scooter Operations \(bts.gov\)](https://bts.gov)



U.S. Department of Transportation

Federal Highway Administration 9

Active Transportation Funding Opportunities

2021 RAISE Recipients Announced

- [\\$180M Awarded to Bicycle and Pedestrian Projects https://www.transportation.gov/policy-initiatives/raise/raise-2021-capital-fact-sheets](https://www.transportation.gov/policy-initiatives/raise/raise-2021-capital-fact-sheets)

Bipartisan Infrastructure Law (BIL)

New and Revised Programs (Sample)

- Transportation Access Pilot Program
- Healthy Streets Program
- Carbon Reduction Program (includes clean fuel programs)
- Congestion Mitigation and Air Quality Improvement Program
- Reconnecting Communities Pilot Program
- Increasing Safe and Accessible Transportation Options (Complete Streets)
- Transportation Alternatives Set-Aside from STBG

Build Back Better Act



U.S. Department
of Transportation

**Federal Highway
Administration**

BIL & Build Back Better Act – Implementation References

Bipartisan Infrastructure Law (BIL)

- White House: An [Executive Order issued by President Biden on November 15](#) during the signing ceremony for the \$1.2 trillion Infrastructure Investment and Jobs Act lays out six priorities the administration expects to follow during the legislation's implementation.
- House Summary: https://transportation.house.gov/imo/media/doc/T&I%20Section%20by%20Section_11.3.21.pdf
- USDOT State Fact Sheets: <https://www.transportation.gov/briefing-room/usdot-releases-state-state-fact-sheets-highlighting-benefits-bipartisan>
- FHWA BIL website (under development): fhwa.dot.gov/bipartisan-infrastructure-law

Build Back Better Act

- H.R.5376 - Build Back Better Act:: <https://www.congress.gov/bill/117th-congress/house-bill/5376>
- Summary: [T&I Section by Section_11.3.21.pdf](https://transportation.house.gov/imo/media/doc/T&I%20Section%20by%20Section_11.3.21.pdf) (house.gov)



Pedestrian and Bicycle Funding Opportunities

https://www.fhwa.dot.gov/environment/bicycle_pedestrian/funding/funding_opportunities.cfm

Pedestrian and Bicycle Funding Opportunities U.S. Department of Transportation Transit, Highway, and Safety Funds Updated January 21, 2021

This table indicates potential eligibility for pedestrian and bicycle projects under U.S. Department of Transportation surface transportation funding programs. Additional restrictions may apply. See notes and basic program requirements below, and see program guidance for detailed requirements. Project sponsors should fully integrate nonmotorized accommodation into surface transportation projects. Section 1404 of the Fixing America's Surface Transportation (FAST) Act modified 23 U.S.C. 109 to require federally-funded projects on the National Highway System to consider access for other modes of transportation, and provides greater design flexibility to do so.

Pedestrian and Bicycle Funding Opportunities: U.S. Department of Transportation Transit, Highway, and Safety Funds																
Key: \$ = Funds may be used for this activity (restrictions may apply). ~\$ = Eligible, but not competitive unless part of a larger project. \$* = See program-specific notes for restrictions.																
Activity or Project Type	BUILD	INFRA	IFIA	ETA	ATI	CMAQ	HSIP	NHPP	STBG	TA	RTP	SRTS	PLAN	NHTSA 402	NHTSA 405	ELITP
Access enhancements to public transportation (includes benches, bus pads)	\$	~\$	\$	\$	\$	\$		\$	\$	\$						\$
ADA/504 Self Evaluation / Transition Plan									\$	\$	\$		\$			\$
Bicycle plans				\$					\$	\$		\$	\$			\$
Bicycle helmets (project or training related)									\$	\$SRTS		\$		\$*		
Bicycle helmets (safety promotion)									\$	\$SRTS		\$				
Bicycle lanes on road	\$	~\$	\$	\$	\$	\$	\$	\$	\$	\$		\$				\$
Bicycle parking	~\$	~\$	~\$	\$	\$	\$		\$	\$	\$	\$	\$				\$
Bike racks on transit	\$	~\$	\$	\$	\$	\$			\$	\$						\$
Bicycle repair station (air pump, simple tools)	~\$	~\$	~\$	\$	\$	\$			\$	\$						\$
Bicycle share (capital and equipment, not operations)	\$	~\$	\$	\$	\$	\$		\$	\$	\$						\$
Bicycle storage or service centers (example: at transit hubs)	~\$	~\$	~\$	\$	\$	\$			\$	\$						\$
Bridges / overcrossings for pedestrians and/or bicyclists	\$	~\$	\$	\$	\$	\$*	\$	\$	\$	\$	\$	\$				\$
Bus shelters and benches	\$	~\$	\$	\$	\$	\$		\$	\$	\$	\$					\$
Coordinator positions (State or local)						\$ 1 per State			\$	\$SRTS		\$				
Crosswalks (new or retrofit)	\$	~\$	\$	\$	\$	\$*	\$	\$	\$	\$	\$	\$				\$
Curb cuts and ramps	\$	~\$	\$	\$	\$	\$*	\$	\$	\$	\$	\$	\$				\$
Counting equipment				\$	\$		\$	\$	\$	\$	\$	\$	\$*			\$
Data collection and monitoring for pedestrians and/or bicyclists				\$	\$		\$	\$	\$	\$	\$	\$	\$*			\$
Historic preservation (pedestrian and bicycle and transit facilities)	\$	~\$	\$	\$	\$				\$	\$						\$
Landscaping, streetscaping (pedestrian and/or bicycle route; transit access); related amenities (benches, water fountains); generally as part of a larger project	~\$	~\$	~\$	\$	\$			\$	\$	\$						\$
Lighting (pedestrian and bicyclist scale associated with pedestrian/bicyclist project)	\$	~\$	\$	\$	\$		\$	\$	\$	\$	\$	\$				\$
Maps (for pedestrians and/or bicyclists)				\$	\$	\$			\$	\$		\$	\$*			
Paved shoulders for pedestrian and/or bicyclist use	\$	~\$	\$			\$*	\$	\$	\$	\$	\$	\$				\$
Pedestrian plans				\$					\$	\$		\$	\$			\$
Recreational trails	~\$	~\$	~\$						\$	\$	\$					\$
Road Diets (pedestrian and bicycle portions)	\$	~\$	\$				\$	\$	\$	\$						\$
Road Safety Assessment for pedestrians and bicyclists							\$		\$	\$		\$	\$			\$
Safety education and awareness activities and programs to inform pedestrians, bicyclists, and motorists on ped/bike safety									\$SRTS	\$SRTS		\$	\$*	\$*	\$*	
Safety education positions									\$SRTS	\$SRTS		\$		\$*		



FHWA's Center for Innovative Finance Support

The CIF\$ can assist you and your infrastructure partners by identifying financing and funding solutions for your projects.

- provide in-depth innovative finance training
- offer real-time technical assistance
- assist with State Infrastructure Bank (SIB) marketing
- develop Public Private Partnerships (P3) strategies
- support project sponsors seeking TIFIA financing



U.S. Department
of Transportation

**Federal Highway
Administration** 13

Toolkit Use Cases

- Learn more about **effective strategies** for expanding bicycle and pedestrian infrastructure.
- Use the highlighted **success stories** as a **conversation-starter** for planning active transportation projects
- **Build support** for active transportation projects



U.S. Department
of Transportation

**Federal Highway
Administration**

Toolkit Contents

Funding Strategies

Financing Strategies

Public-Private Partnerships

Emerging and Supporting Strategies to Deliver Active
Transportation Projects

Case Studies

Peer Exchange

Considerations for Implementation



U.S. Department
of Transportation

**Federal Highway
Administration**

Funding Strategies

Value Capture

Federal Funding

State and Local Funding

Other Private Funding Options



Value Capture

- Land value tax/split rate tax
- Special assessment districts (SADs)
- Joint development fees
- Development impact fees
- Transportation utility fees (TUFs)
- Negotiated exactions
- Sales tax district
- Tax increment financing (TIF)



U.S. Department
of Transportation

**Federal Highway
Administration**

Federal Transportation Funding

- Supports a wide range of project types and sizes
- Timing can depend on the application process
- Typically involves environmental review (NEPA)
- Often tied to achieving certain objectives related to the funding source



U.S. Department
of Transportation

**Federal Highway
Administration**

State and Local Funding Options

- Ballot measures
- Local planning assistance grants and State funding sources
- Sales taxes and other fees



U.S. Department
of Transportation

**Federal Highway
Administration**

Private Funding Options

- Advertising and sponsorships
- Local partnerships
- Private grants and philanthropy
- In-kind donations
- Individual donations and crowdfunding



U.S. Department
of Transportation

**Federal Highway
Administration**

Financing Strategies

Bonds

Grant Anticipation Revenue
Vehicles (GARVEEs)

Transportation Infrastructure
Finance and Innovation Act
(TIFIA) loans

State Infrastructure Banks



Public Private Partnerships

- Private involvement in designing, building, financing, maintaining, and/or operating a facility
- Benefits:
 - Access more capital
 - Shared risk
 - Efficiencies and accelerated project delivery
 - Greater design flexibility



U.S. Department
of Transportation

**Federal Highway
Administration**

Emerging and Supporting Strategies to Deliver Active Transportation Projects

- Leveraging funding sources and financing methods
- Green funding and finance
- Demonstration projects



U.S. Department
of Transportation

**Federal Highway
Administration**

Case Study Projects

Seattle
Children's
Hospital



Maurice
Avenue Cycle
Track



Transportation
System
Development
Charges



Tweetsie Trail



The Hampline



Austin Mobility Bonds



U.S. Department
of Transportation
**Federal Highway
Administration**

Effective Practice by Case Studies

Project	Land Value Return Methods	Federal Funding Sources	Public-Private Partnerships	Local Funding Options	Debt Financing
Tweetsie Trail				X	
Zach Scott Street and Schieffer Ave Improvements					X
Maurice Ave Cycle Track		X		X	
Cully Blvd Green Street Project	X				
The Hampline		X	X	X	
Seattle Children's Hospital Livable Streets Initiative		X			



Peer Exchange

Agency/Organization	Presentation focus
City of Salem (OR)	HSIP funding changes; Urban Renewal Districts
Gwinnett Place Community Improvement District (GA)	Community Improvement Districts and project partnerships
Memphis Medical Collaborative (TN)	Medical district and quick build streetscape
City of Tallahassee (FL)	Micromobility program funding
Atlanta Regional Commission (GA)	Livable Center Initiative funding program
Studio Main (Consultant to Town of Pickens, SC)	Rail-to-trail funding and community partnerships



Considerations for Implementation

- What is the **scale** of the project?
- What is the **revenue potential**?
- Are there opportunities to **leverage multiple sources**?
- Are there existing policies or **legal requirements**?
- What are the agency's **policy goals**?
- How can the **community be engaged**?
- How is **equity being prioritized** in this process?
- Are there opportunities to **collaborate with other partners**?



Web-Based Toolkit

U.S. Department of Transportation
Federal Highway Administration

About Programs Resources Briefing Room Contact Search FHWA

Office of Planning, Environment, & Realty (HEP)

Planning Environment Real Estate HEP Events Guidance Publications Glossary Awards Contacts

Bicycle and Pedestrian Program

Legislation
Funding
Guidance
Publications
Resources

[FHWA → Environment](#)

Bicycle and Pedestrian Program

The Federal Highway Administration's Bicycle and Pedestrian Program promotes safe, comfortable, and convenient walking and bicycling for people of all ages and abilities. We support pedestrian and bicycle transportation through funding, policy guidance, program management, and resource development.

Each State has a [State Bicycle and Pedestrian Coordinator](#), and each FHWA Division office has an [FHWA Bicycle and Pedestrian Coordinator](#) point of contact.

Key Resources

- [Pedestrian and Bicycle Funding Opportunities](#)
- [FHWA Guidance: Bicycle and Pedestrian Planning, Program, and Project Development](#) (September 26, 2019)
- [Bicycle Facilities and the Manual on Uniform Traffic Control Devices](#)
- [Memorandum: Bicycle and Pedestrian Facility Design Flexibility](#)
- [Policy Statement on Bicycle and Pedestrian Accommodation Regulations and Recommendations | Memorandum](#)
- See more [Resources](#)

Featured Resources

[Strategies for Accelerating Multimodal Project Delivery](#)
This guidebook identifies specific strategies and techniques for accelerating multimodal project delivery. It highlights proven techniques that agencies are using to get high quality results, and opportunities to address barriers or delays in the project delivery process.

[Case Studies in Realizing Co-Benefits of Multimodal Roadway Design and Green and Green Infrastructure](#)
This report provides information to encourage agencies interested in making improvements to their pedestrian and bicycle networks that also provide green infrastructure and resiliency benefits.

[Guidebook for Measuring Multimodal Network Connectivity](#)
This resource focuses on measuring pedestrian and bicycle network connectivity and incorporating connectivity analysis into the transportation planning process.

State Coordinator and FHWA Division Coordinator
Each State has a [Bicycle and Pedestrian Coordinator](#), and each [FHWA Division office](#) has a point of contact.

FHWA Headquarters Contact
For more information, please contact [Darren Buck](#), 202-366-1362.

FHWA Supports:



U.S. Department of Transportation
Federal Highway Administration

About Programs Resources Briefing Room Contact Search FHWA

Office of Planning, Environment, & Realty (HEP)

Planning Environment Real Estate HEP Events Guidance Publications

Bicycle and Pedestrian Program

Legislation
Funding
Guidance
Resources

[FHWA → Multimodal Finance Toolkit](#)

Active Transportation Funding and Finance Toolkit Innovative Strategies for Funding and Financing Bicycle and Pedestrian Projects

Background

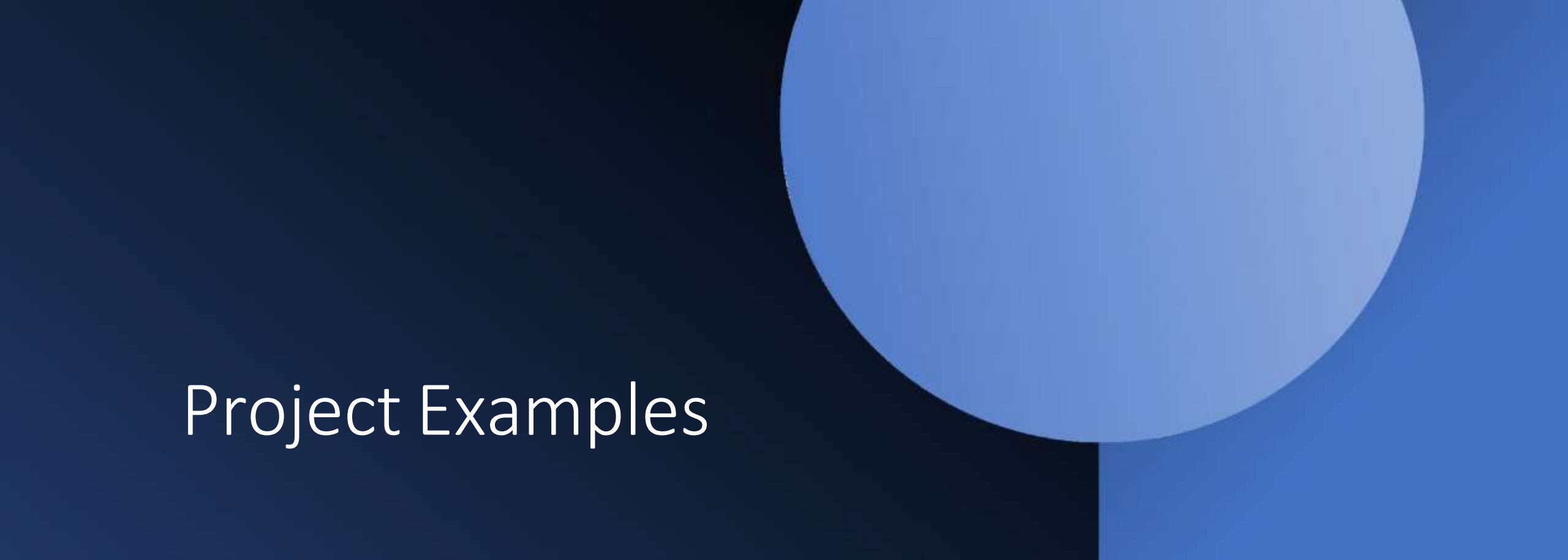
Across the country, interest in and demand for better pedestrian and bicycle infrastructure has increased. The interest of State and local agencies in using innovative funding and financing strategies to deliver projects. Many traditional funding programs reserve limited sums for active transportation projects or require competing for funding with other project types that may fare better when applying established prioritization criteria. This issue is often compounded by the need to leverage funds for matching or the need for financing to bring projects online more rapidly. While bicycle and pedestrian projects tend to be lower cost than most road projects, transportation agencies throughout the country face unique challenges in securing timely, adequate funding for active transportation projects. Strategies that have not typically been used for active transportation projects, such as value capture and bond financing, are increasingly gaining attention as successful methods.

As interest in active transportation has increased among the general public and public officials alike, tools for accelerating delivery of bike and pedestrian projects are more important than ever. This toolkit highlights notable, innovative practices for paying for such projects.

How to Use the Toolkit

- This toolkit is for anyone interested in expanding bicycle and pedestrian infrastructure. While





Project Examples

Laura Dierenfield, Austin, Texas: **Austin Mobility Bonds**

Nicholas Oyler, City of Memphis: **The Hampline**

Blake Sanders, Studio Main LLC: **The Doodle Trail**



CITY OF AUSTIN MOBILITY BONDS

Active Transportation
Funding and Financing
Toolkit Webinar -
November 23, 2021

Photo Source: City of Austin, [Transportation Department](#)

MOBILITY BONDS



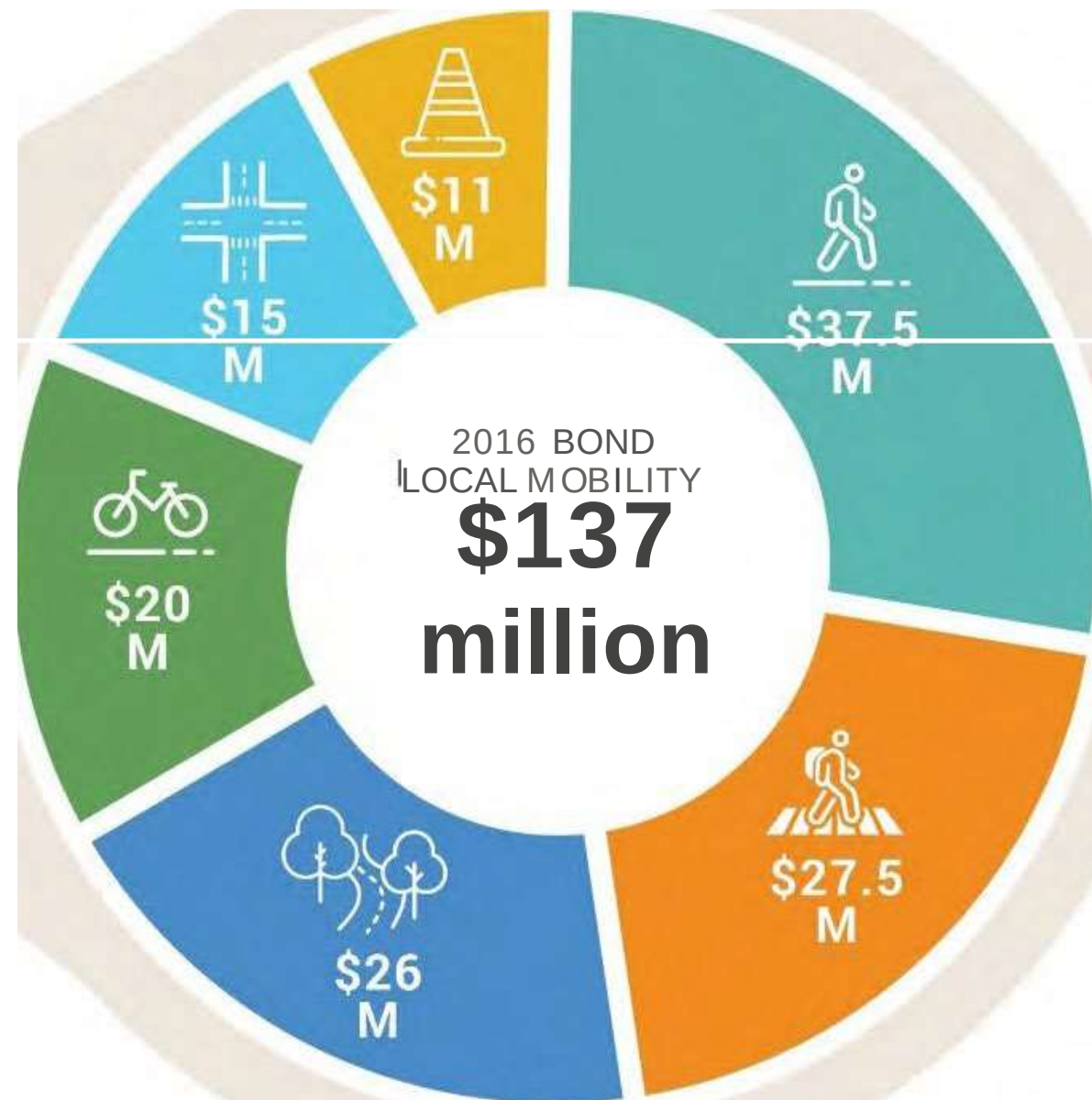
PROCESS



IMPLEMENTATION



Photo Source: City of Austin, Transportation Department



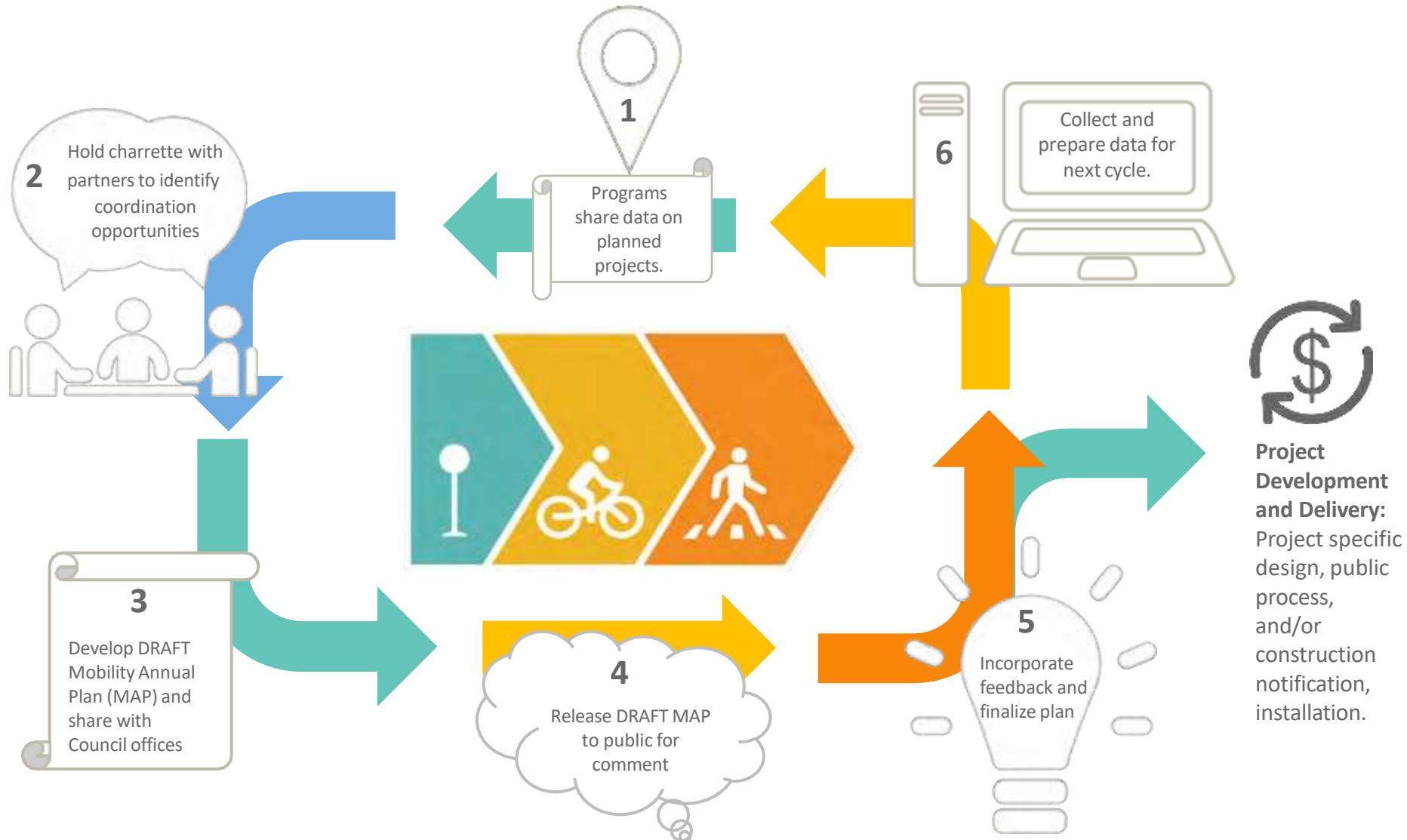
Source: City of Austin, Transportation Department

FUNDING LEVELS BY PROGRAM FOR '16, '18 AND '20 BONDS (MILLIONS)



Source: City of Austin, Transportation Department

PROCESS: MOBILITY ANNUAL PLAN



Sidewalks 2022-2024



Safe Routes to School 2021

<Null>

<call other values>

Safe Routes to School Walk-Audit Schools Complete



Urban Trails Construction 2021



Urban Trails Trail Improvements 2021



Urban Trails Design and Preliminary Engineering Report 2021



Bikeways Active 2021



2016 Mobility Bond Corridor Projects



Fully Funded for Design and Construction



Preliminary Engineering and Design

INTERACTIVE MAP

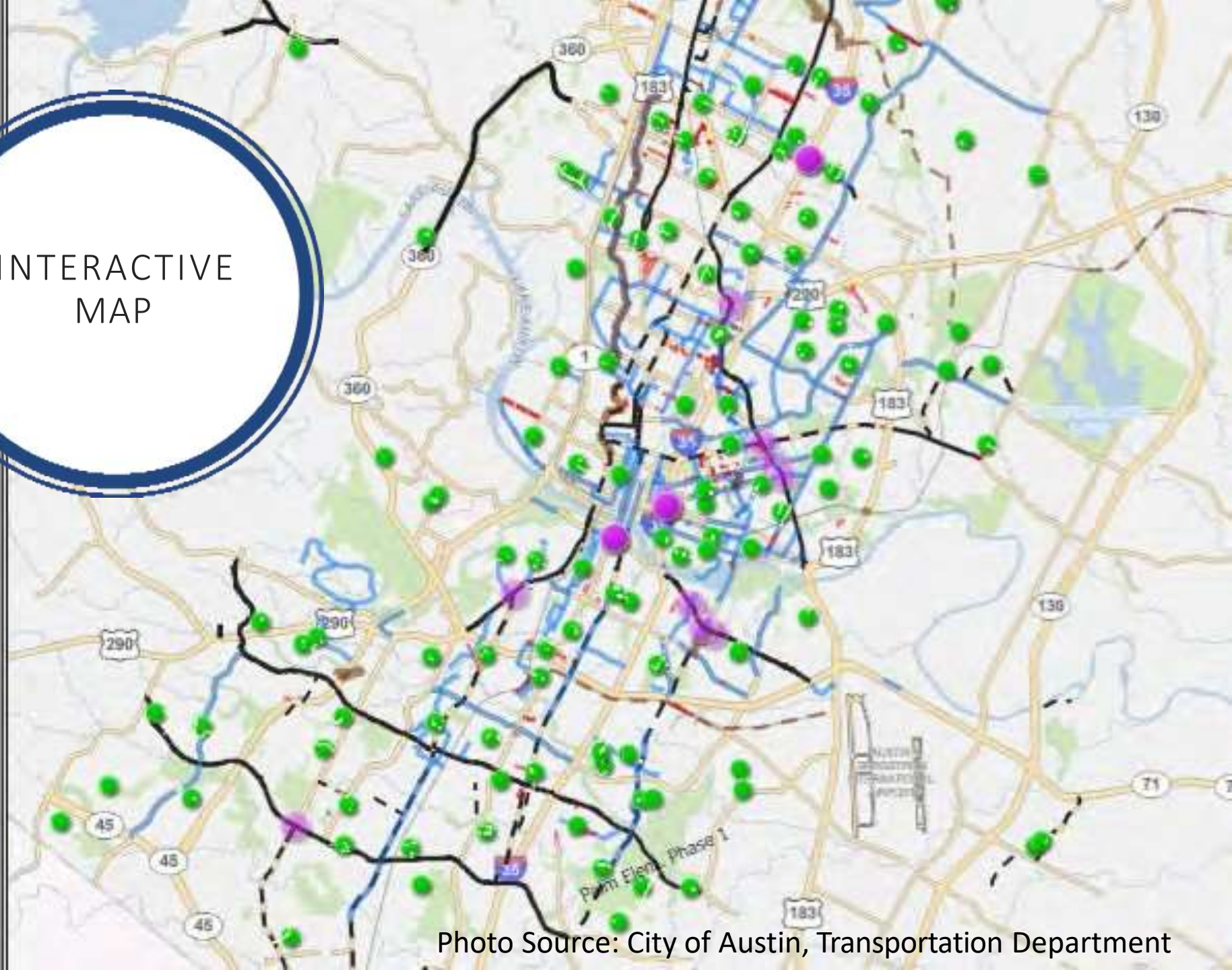


Photo Source: City of Austin, Transportation Department



ZACH SCOTT STREET PROJECT

Photo Source: City of Austin,
Transportation Department





ZACH SCOTT STREET PROJECT

Photo Source: City of Austin,
Transportation Department



PROJECT PARTNERS

- Safe Routes to School
- Pavement Preservation Program
- Bikeways Program
- Sidewalk Program

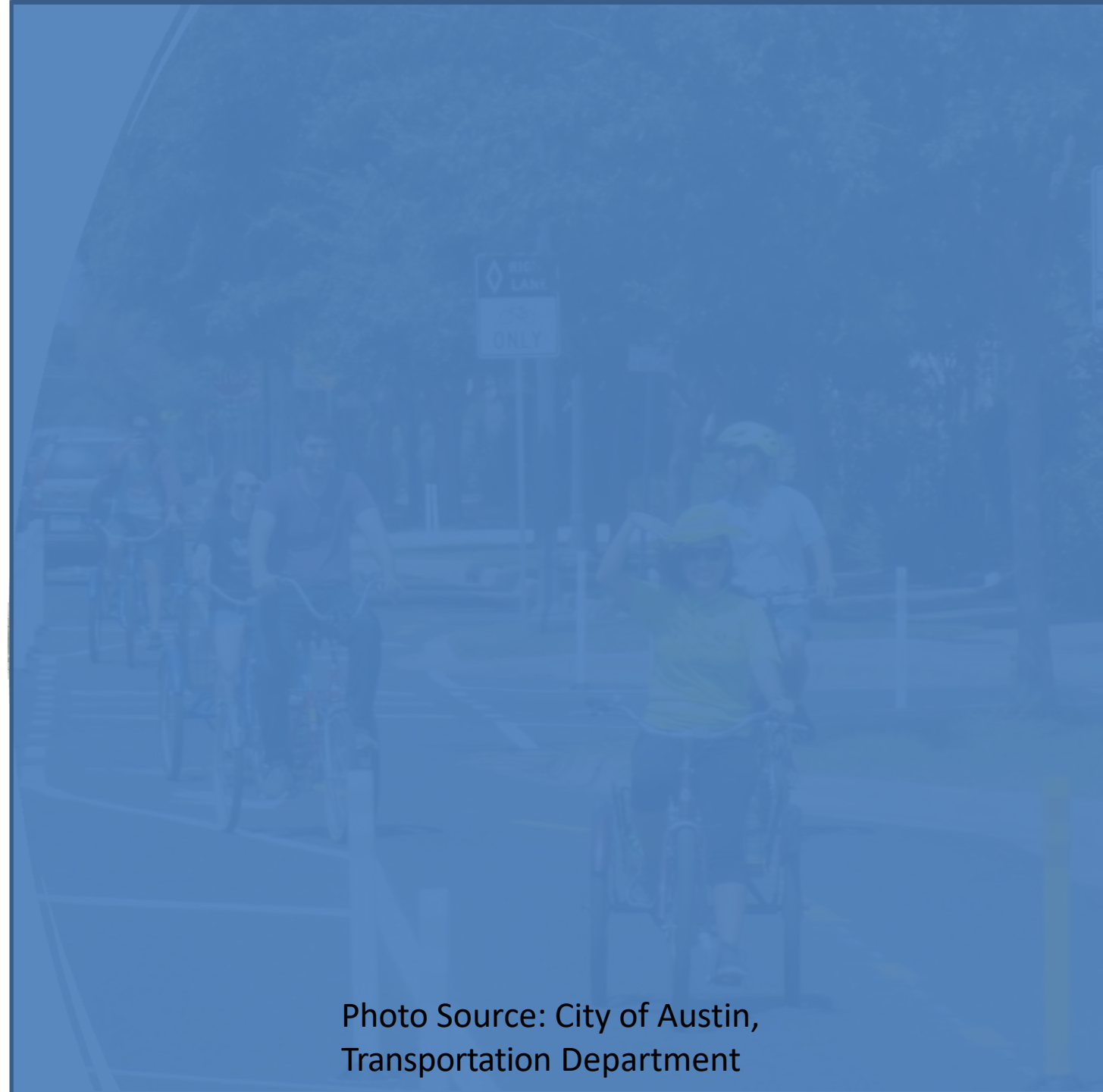


Photo Source: City of Austin,
Transportation Department

THANK YOU!



Laura Dierenfield
Division Manager
Active Transportation and Street
Design Division
Austin Transportation Department
laura.dierenfield@austintexas.gov

(512) 974 - 7189

PHOTO CREDIT:
GHISALLO CYCLING INITIATIVE

The Hampline Project: Creatively Funded & Patiently Delivered



Nicholas Oyler
Bikeway & Pedestrian Program Manager
City of Memphis



Credit: BLDG Memphis

2010



Credit: BLDG Memphis

2010



Credit: BLDG Memphis

2010



Credit: BLDG Memphis

2010



Credit: BLDG Memphis

2012

- City of Memphis receives a nearly \$2 million Federal CMAQ grant for bundled bike lane projects, including the Hampline
- Formal planning and design begins



Credit: BLDG Memphis

2013



ioby brings neighborhood projects to life, block by block.

start a project

find a project »

STATUS: UNDERWAY

The Hampline

Go Hampline! We reached our goal but every dollar more still goes directly to The Hampline. We're grateful for you to keep giving!

SHARE THIS PROJECT

Let's Make Memphis Great!

View the Campaign

OVERVIEW BUDGET UPDATES DONORS

NEARBY PROJECTS

YOU MADE IT HAPPEN
Help us exceed our goal!



project leader
overtonbroad

location
175 Tillman
(Binghampton)

latest update 📅
Thank you to our donors!

the project

TOTAL FUNDING NEEDED: \$68,643

\$68,928 RAISED SO FAR

\$0 STILL NEEDED

funded!

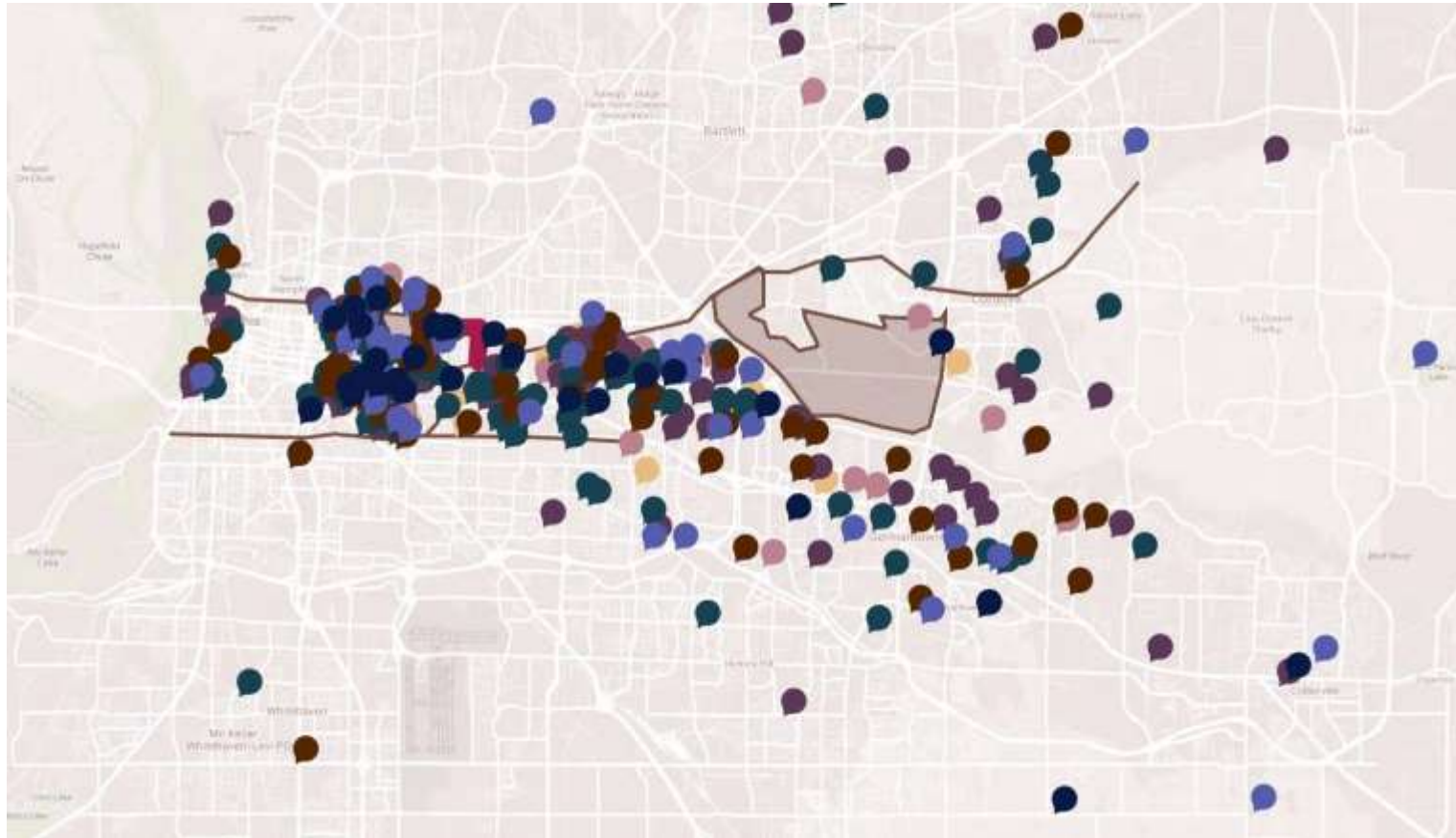
This project has been fully funded and is no longer collecting donations.

about the project leader

Livable Memphis, Broad Avenue Arts District & Binghampton Development Corp. [See full profile »](#)

Credit: ioby.com

2013



Credit: ioby.com

2014



Credit: City of Memphis Bikeway and Pedestrian Program

2014



Credit: City of Memphis Bikeway and Pedestrian Program

2015

2016

2017



Credit: Historic Broad Avenue Arts Alliance

NOTICE TO PROCEED WITH THE FUNDED
CONSTRUCTION PHASE
OF PROJECT DEVELOPMENT

FIN: 19545-00
FEDERAL PROJECT NUMBER: CM-9409(184)
STATE PROJECT NUMBER: 79LPLM-F3-321
ROUTE (STREET NAME): Various Locations (Hampline)
FROM: _____
TO: _____
CITY: Memphis
COUNTY: Shelby
REGION: 4

Effective Date: January 10, 2018

Date of Transmittal: January 11, 2018

This letter serves as your official **Notice to Proceed** with the above referenced phase of work for the subject project. The Local Government shall perform this phase of project development in accordance with the Local Government Guidelines provided on the Local Program Development Office website at http://www.tn.gov/assets/entities/tdot/attachments/LGG_Manual.pdf. ***Any work performed ahead of a Notice to Proceed's Effective Date will not be reimbursed.***

You may procure, in accordance with law, a consulting engineering firm to do all phases of construction at this time. Please refer to Section 1.6 of the Local Government Guidelines for guidance on consultant selection, if needed. Please provide a copy of the executed contract with the consultant and a copy of the notice sent to the consultant indicating the date work was

2018

Credit: City of Memphis Bikeway and Pedestrian Program

- 
- **Pre-Construction Activities**
 - **Groundbreaking**
 - **Construction completion**

2018

2019

2020



Credit: City of Memphis Bikeway and Pedestrian Program



Credit: City of Memphis Bikeway and Pedestrian Program



Credit: City of Memphis Bikeway and Pedestrian Program



Credit: City of Memphis Bikeway and Pedestrian Program

THANK YOU!



  @BikePedMemphis

Trail Funding and Implementation in Rural South Carolina

Blake Sanders, PLA ASLA

Studio Main LLC – President

Town of West Pelzer – Mayor

Clemson University – Adjunct Lecturer College of Architecture

Studio Main LLC | 1 Hindman Street | Pelzer, SC 29669

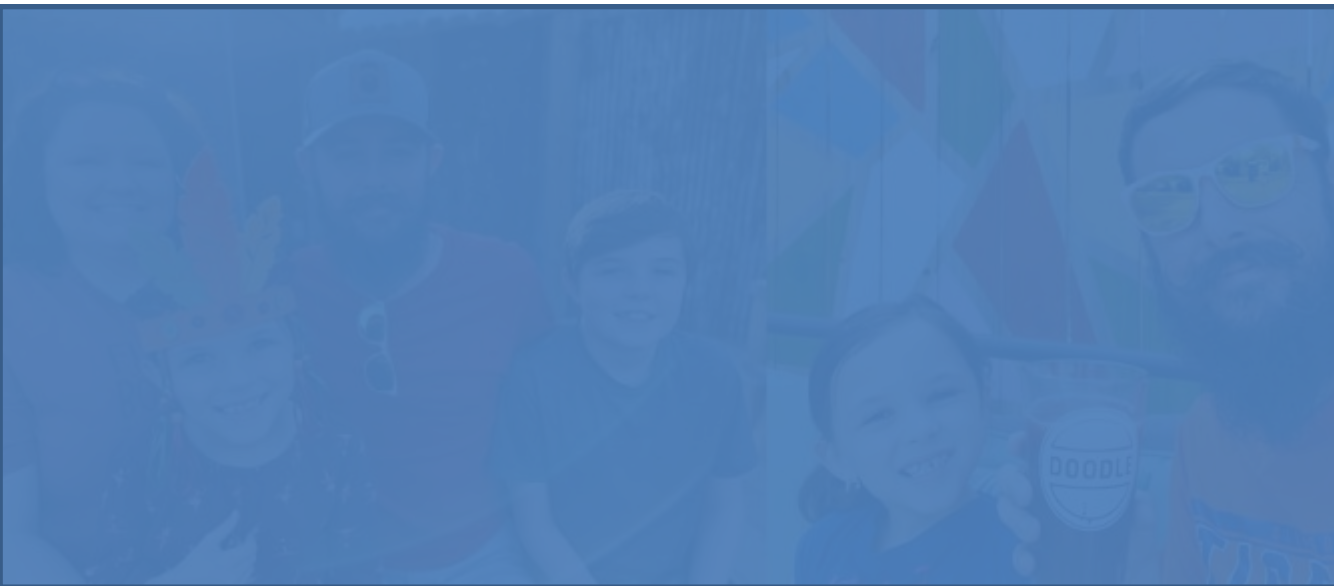
blake@studiomainllc.com



ABOUT STUDIO MAIN

Founded in 2017 after leading thousands of miles of multi-modal planning, hundreds of miles of implementation, and thousands of acres of park master planning, **Studio Main** engages in a focused design approach that leads with a commitment to transforming communities through community-oriented design.

Main Street Approach | Handlebar Perspective



Studio Main LLC

Range of Services:

- Master plans
- Landscape Architecture
- Greenways and Streetscapes
- Bicycle and pedestrian Facility Design
- Complete Streets
- Signage and Wayfinding Planning
- Construction Documentation
- Public Involvement and Facilitation

National and Regional Dedication

- 2018 Washington State Bicycle - Keynote
- 2018 SE Bicycle Symposium - Keynote
- 2018 MASC Annual Conference
- 2018 Ten at the Top Annual Conference
- 2018 Inaugural Mayor Joe Riley Design Institute
- 2019 Piedmont Legacy Trails Summit – Keynote
- 2019 Ten at the Top Pique 2019
- 2019 Ten at the Top Upstate Planners – Keynote
- 2021 SC Economic Developers Institute

I am Blake Sanders.

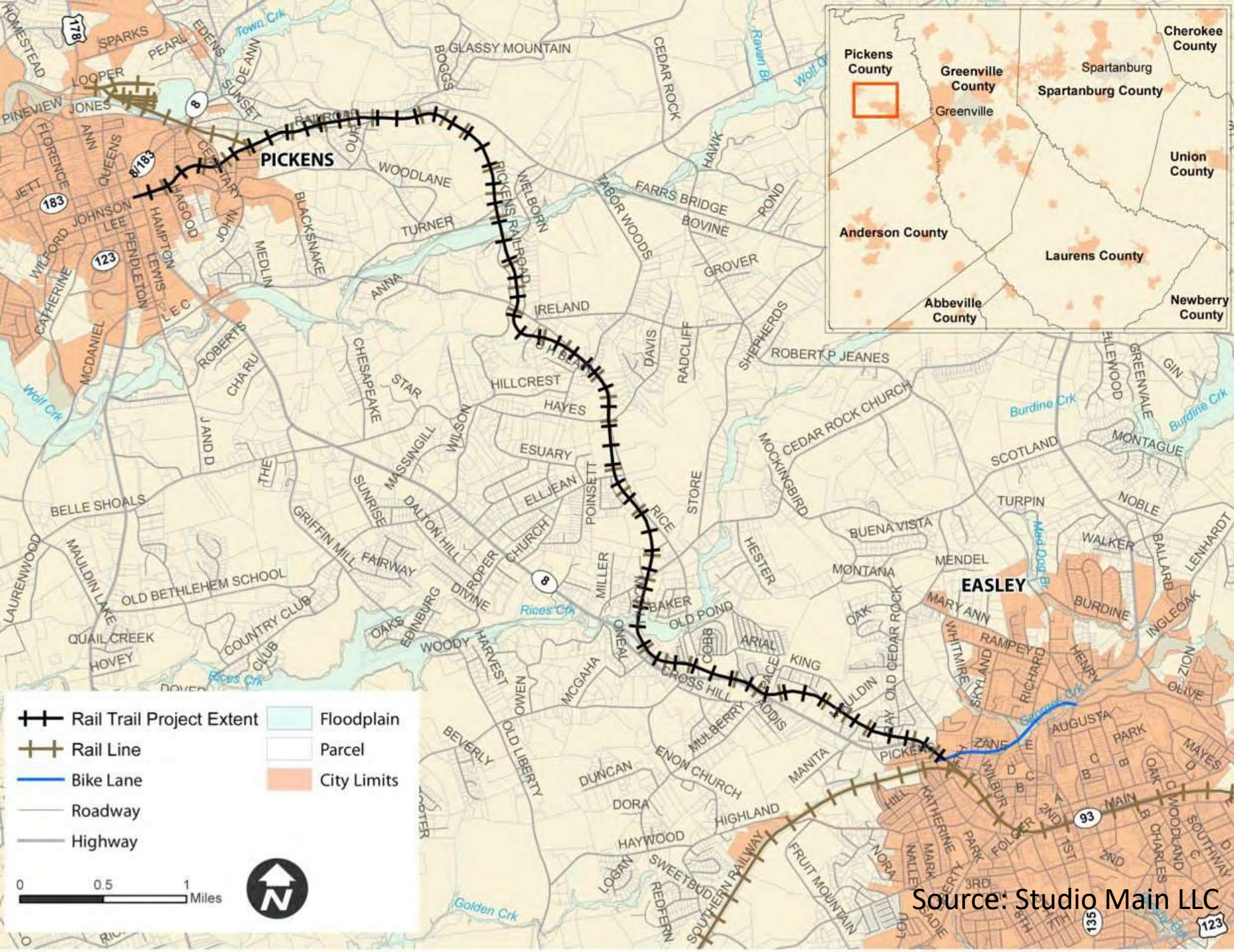
I am here because I believe Trails Transform Rural Communities.

I am a Husband, Father, Landscape Architect, Planner, Mayor, and Professor

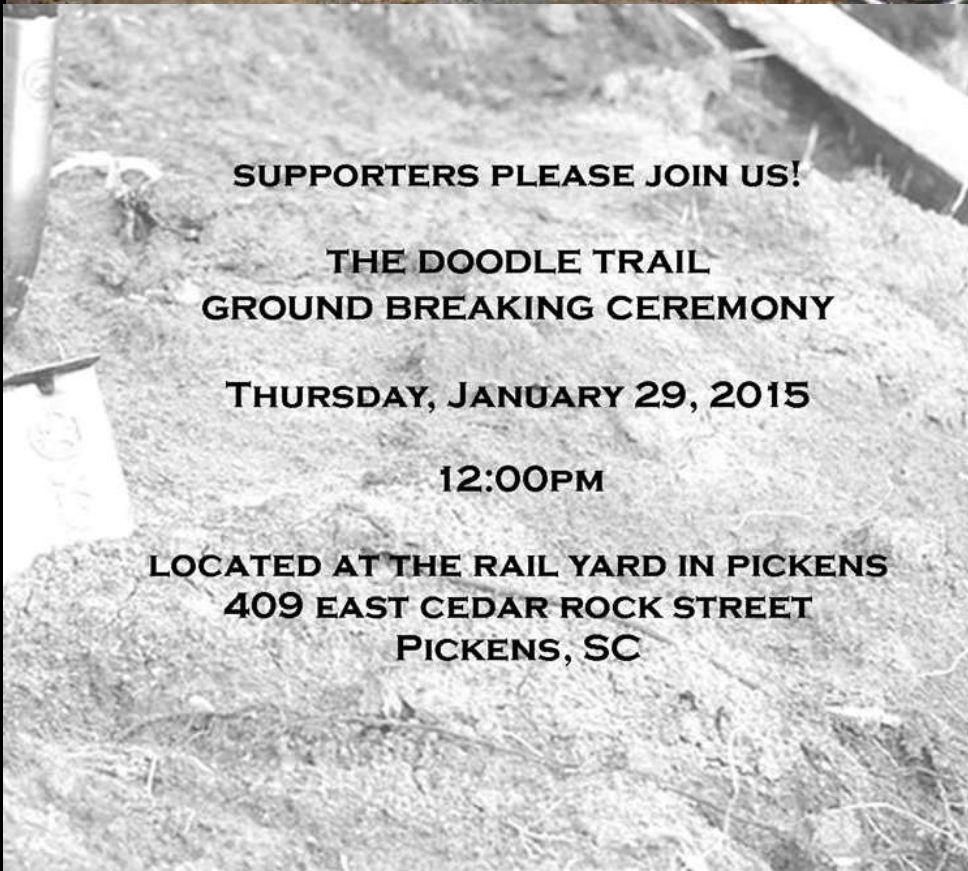


- **Doodle Trail**
 - Schedule
 - Master Plan – 2013
 - Purchased - 2013
 - Construction – 2015
 - Financing
 - GPATS MPO
 - EPA Brownfields
 - ARC Grant
 - General Fund
 - Tax Increment Financing
 - Hospitality Tax
 - C Fund/Transportation
 - CDGB
 - SCDOT TAP
 - Private (AnMed, Blue Ridge Electric, etc.)
 - Non-Profit (Rotary)
 - Partners
 - City of Easley, SC
 - City of Pickens, SC
 - Strategies
 - \$237k/mile
 - 300k annual users
 - 7.5 miles in 2015
 - 2 miles added since
 - Design/build to save \$\$
 - \$3-5M annual impact

Source: Studio Main LLC



Source: Studio Main LLC



SUPPORTERS PLEASE JOIN US!

**THE DOODLE TRAIL
GROUND BREAKING CEREMONY**

THURSDAY, JANUARY 29, 2015

12:00PM

**LOCATED AT THE RAIL YARD IN PICKENS
409 EAST CEDAR ROCK STREET
PICKENS, SC**



Source: Studio Main LLC



Source: Studio Main LLC



Source: Studio Main LLC





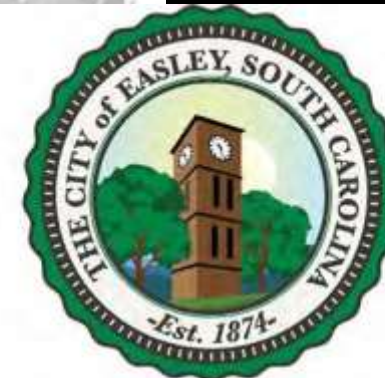
Source: Studio Main LLC



Active - Affordable Housing

Not to Scale | 8 March 2018

Source: City of Easley



-THE CITY OF-
EASLEY

SUCCESS AND CHALLENGES

• Top 3 Success Strategies

- Project Partners are there you just have to ask!! AnMed Health, Rotary Club, and Blue Ridge Electric
- People will use the trail before you finish!! Be prepared to partner with local businesses for parking and amenities that you can't offer (Example – purchase toilet paper to give to local service stations and promote them as 'rest stops')
- Design/Build team provided one-on-one contact with property owners, businesses, permit agencies, and the City.

• Top 3 Challenges Faced

- 2015 - trail stopped at two major highways without parks, parking, etc.
- Mayors committed to building 7.5 miles in 100 days AND a bridge burned on Day 76
- Trail extensions were more difficult to promote since the largest section had been opened quickly and less expensive than extensions (not everyone has an abandoned railroad in their town)

RESULTS AND METHODS

- **How has the Doodle Trail impacted Easley and Pickens?**
 - \$10M annual economic impact from recreation (JB Red Owens/Doodle Trail)
 - 19 new Attainable, trailside homes – new partnerships with local banks and builders
 - Proven results in Downtown – 10+ new restaurants open or planned
 - New events (annual 5k fundraiser for non-profits; Christmas Tree Lighting in Doodle Park, etc.)
- **What are the future plans for the Doodle Trail?**
 - Extend to Woodside Mill (\$30M housing), the Silos (\$2M restaurant/retail), Hwy 153 Extension and Technology Neighborhood (\$30M); long term plans to connect to the Green Crescent Trail (15 miles) and Swamp Rabbit Trail (10 miles)
 - Wayfinding and signage to major points of interest or longer rural road routes

Trail Funding and Implementation in Rural South Carolina

THANK YOU

HANDLEBAR PERSPECTIVE MATTERS

EXPLORE LOCAL FUNDING SOURCES - FIRST

COMMENTS AND QUESTIONS

BLAKE SANDERS, PLA ASLA

STUDIO MAIN LLC
1 HINDMAN STREET
PELZER, SC 29669

E. BLAKE@STUDIOMAINLLC.COM
P. 864.617.0347

STUDIO
MAIN

Question & Answer Session



U.S. Department
of Transportation

**Federal Highway
Administration**

Multimodal Connectivity Outreach

Outreach

- Fostering Multimodal Connectivity Newsletter (Quarterly) <https://www.fhwa.dot.gov/livability/newsletter/>
- Human Environment Digest (Monthly) https://www.fhwa.dot.gov/livability/he_digest/
- PBIC Messenger (Monthly) <https://www.pedbikeinfo.org/newsroom/newsletters.cfm>

Recognition

- Environmental Excellence Awards. Applications due Dec 15. <https://www.environment.fhwa.dot.gov/EEawards/>

Active Transportation Funding and Finance Toolkit

- Posting location: https://www.fhwa.dot.gov/environment/bicycle_pedestrian/
- POC: Darren Buck, Bicycle and Pedestrian Coordinator (darren.buck@dot.gov)



U.S. Department
of Transportation

**Federal Highway
Administration**

Thank you.



U.S. Department
of Transportation

**Federal Highway
Administration**