Traffic Engineering Workshop 2023

BIL Grant Opportunities

June 7, 2023

Bipartisan Infrastructure Law (BIL)
Summary

Signed into law on November 15, 2021

The legislation reauthorizes surface transportation programs for FY 2022-2026 and provides advance appropriations for certain programs.

Invests $350 billion in highway programs over 5 years

INFRASTRUCTURE LAW

$110 billion for **roads and bridges**

$17 billion for **ports and waterways**

$66 billion for **passenger & freight rail**

$7.5 for electric **vehicle charging**

$39 billion for **public transit** & $7.5 billion for **electric buses**

$11 billion for **safety**

$25 billion for **airports**

Source: USDOT

Ready...Set...GO!
Preparing for a Federal Grant Application

SAM.gov Registration

- Applicant needs Unique Entity ID (UEI) through SAM.gov (NOT DUNS #)
- Process can take up to 1 month

Grants.gov Registration

- Some BIL applications are submmited through Grants.gov
- Registration process can take up to 1 month

Letters of Support

- Gather LOS from applicable entities (ODOT, MPO, transit org, community groups, etc.)
- ODOT LOS must be requested more than 2 weeks prior to application deadline via online form

Cost-Benefit Analysis

- Required with some BIL grant applications
- Can be time consuming
- Many resources available
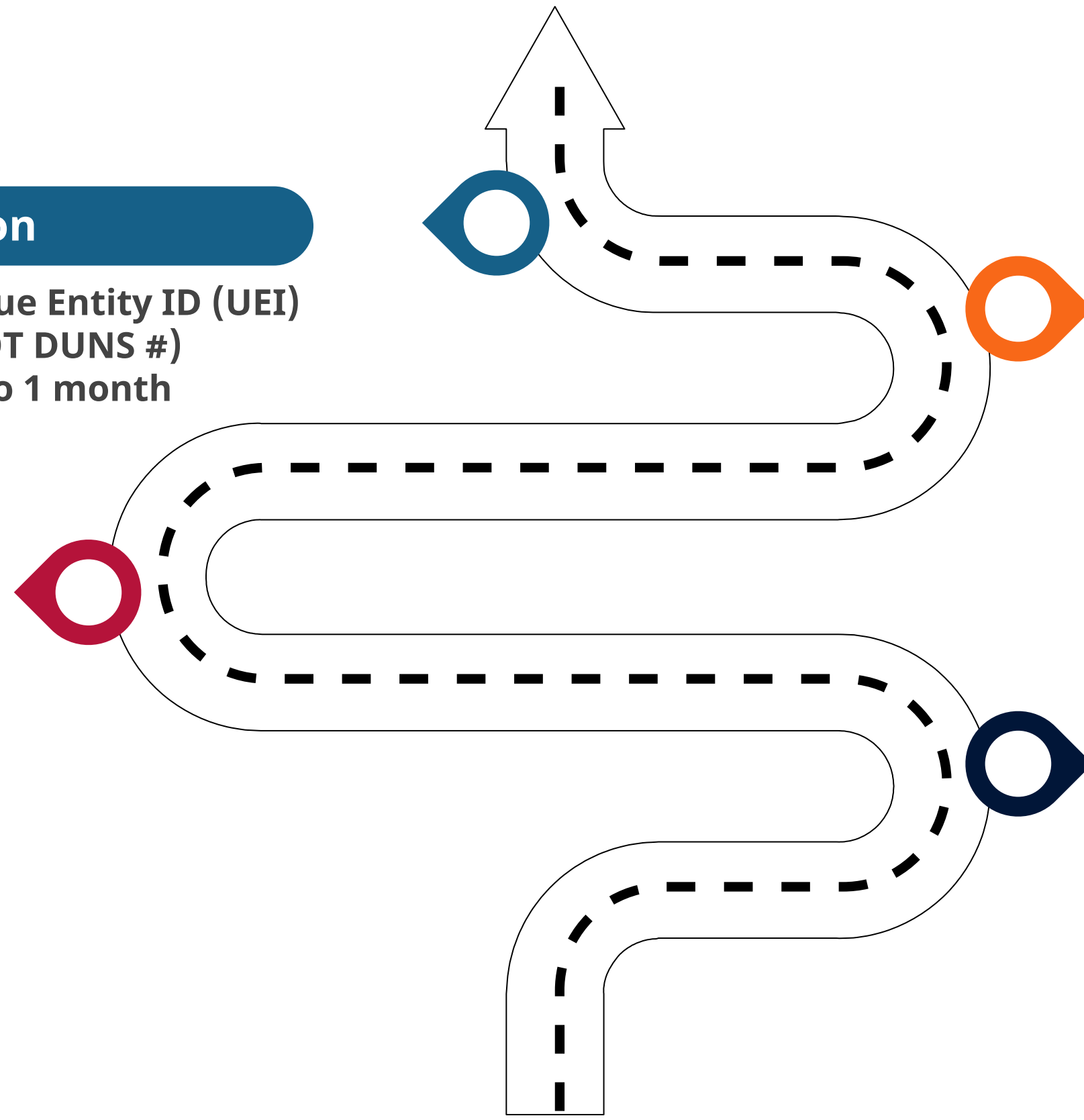
ODOT Letter of Support Request
Via FormStack

ODOT LOS must be requested **no less than 14 days prior** to application submission

Must submit **draft application narrative** and **template letter of support** with request

Formstack link:
https://odot.formstack.com/forms/los_request

OHIO DEPARTMENT OF TRANSPORTATION

Please use the below form to request a support letter from ODOT for a USDOT Discretionary Grant application. A draft copy of the application and template letter of support are required. Requests should be submitted no later than 14 days prior to application submission. If you have any questions please contact statewide.planning@dot.ohio.gov.

Name*
First Name   Last Name

Phone Number if There are Questions*

Email Where Support Letter Should be Sent*

In what ODOT District is the project located?
District 1
A map of ODOT districts can be found here for reference: https://www.transportation.ohio.gov/about-us/districts

Organization Requesting Support

Project Name

What grant program is this request for?
Active Transportation Infrastructure Investment Program

When is the letter needed?

Are any ODOT funds committed to this project?*
○ Yes
○ No

Please attach a draft of the application narrative*
Choose File Remove File No File Chosen

Please attach a template letter of support*
Choose File Remove File No File Chosen

Submit Form

SS4A Grant
Safe Streets and Roads for All

GRANT OVERVIEW

80% Federal | 20% local match

Grant Type	Expected Grant Range
Planning and Demonstration Grant	$100K – $10M
Implementation Grant	$2.5M – $25M

Eligible Applicants:
- **Political subdivision of a state** *(cities, towns, counties, special districts, similar units of local government)*
- **Metropolitan Planning Organization (MPO)**
- **Multijurisdictional group comprised of the entities above**
- **Federally recognized Tribal government**

SS4A Grant

Safe Streets and Roads for All

Planning + Demonstration Grant

Implementation Grant

Implementation grant applicants **MUST** have an existing **Action Plan** that fulfills the criteria set by USDOT.

Develop your Action Plan

Optional: supplemental planning and/or demonstration activities

Update your Action Plan, conduct supplemental planning, and/or execute demonstration activities

Implement projects and strategies identified in your **Action Plan**

Optional: Action Plan updates, supplemental planning and/or demonstration activities

SS4A Grant

Example Implementation Grant Projects

Safe Routes to School Projects

Transit Safety Projects

Bicycle Infrastructure Projects

Emergency Medical Response Time Projects

Highway Safety Projects

Pedestrian Safety Projects

SS4A Timeline

Notice of Funding Opportunity (NOFO) **out NOW**

NOFO Released

Application Deadline

Funding Award Announcements

Funding Received

March 2023

July 10, 2023

Planning & Demo Grants: October 2023

Implementation Grants: December 2023

Within 12 months of award announcement

SMART Grant

Strengthening Mobility and Revolutionizing Transportation

SMART Grant

Strengthening Mobility and Revolutionizing Transportation Grant Program

GRANT OVERVIEW

New grant program to fund demonstration projects focused on **advanced smart city of community technologies and systems.**

$100M appropriated annually for **FY 2022-2026**

Eligible applicants: States, **political subdivisions of states,** Tribal governments, public transit agencies, public toll authorities, MPOs, and a group of two or more eligible entities (applying through a single lead applicant)

SMART Grant

Strengthening Mobility and Revolutionizing Transportation Grant Program

USDOT anticipates that SMART grants will be released in __two stages__

STAGE ONE: Planning and Prototyping Grant
- Proof-of-concept
- Build & strengthen partnerships
- Move quickly and demonstrate capacity

100% funding offered in 2022

Up to $2M over **18 months**

STAGE TWO: Implementation Grant
- Scale prototypes to demonstrate benefits to community
- Capture lessons learned
- Evaluate benefits
- Wort towards key performance indicators

Up to $15M over **36 months**

BEYOND:
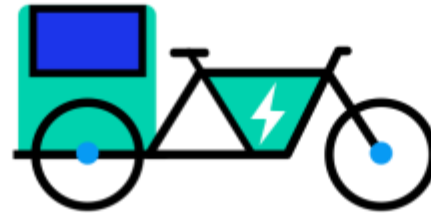- Plan for widespread deployment of successful demonstrations

SMART Grant
Technology Areas

SMART

Applicants should focus on one or two technology areas.

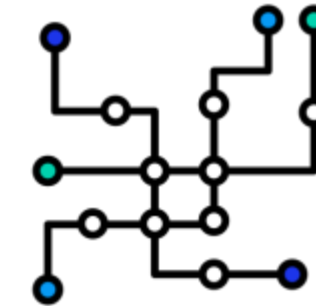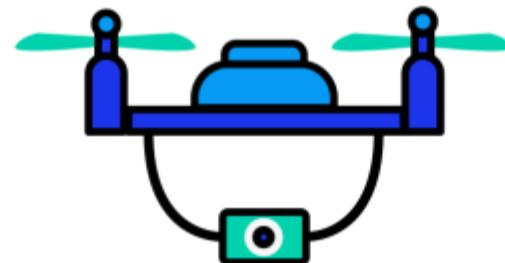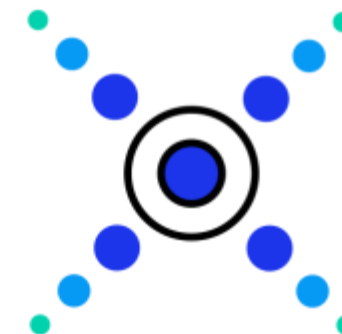CONNECTED VEHICLES

DELIVERY/ LOGISTICS

SENSORS

SYSTEMS INTEGRATION

COORDINATED AUTOMATION

INNOVATIVE AVIATION

SMART GRID

TRAFFIC SIGNALS

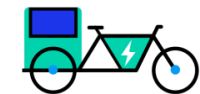Source: USDOT

SMART Grant
Technology Areas

SMART

Connected Vehicles
Vehicles that send and receive information regarding vehicle movements in the network and use vehicle-to-vehicle and vehicle-to-everything communications to provide advanced and reliable connectivity.

Sensors
Deployment and use of a collective intelligent infrastructure that allows sensors to collect and report real-time data to inform everyday transportation-related operations and performance.
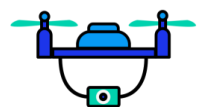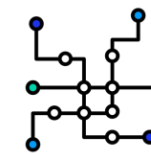
Coordinated Automation
Use of automated transportation and AV while working to minimize the impact on the accessibility of any other user group or mode of travel.

Smart Grid
Developing a programmable and efficient energy transmission and distribution system to support the adoption or expansion of energy capture, electric vehicle deployment, or freight or commercial fleet fuel efficiency.

Delivery/Logistics
Innovative data and technological solutions supporting efficient goods movement, such as CV probe data, road weather data, or global positioning data to improve on-time pickup and delivery, improved travel time reliability, reduced fuel consumption and emissions, and reduced labor and vehicle maintenance costs.

Systems Integration
Integration of ITS with other existing systems and other advanced transportation technologies

Innovative Aviation
Leveraging the use of innovative aviation technologies (i.e., UAS) to support transportation safety and efficiencies, including traffic monitoring and infrastructure inspection.

Smart Technology Traffic Signals
Improving the active management and functioning of traffic signals

SMART Grant
Technology Areas – Smart Technology Traffic Signals

SMART

Smart Technology Traffic Signals

Improving the active management and functioning of traffic signals, including through:

Use of automated traffic signal performance measures

Implementing strategies, activities, and projects that support active management of traffic signal operations, including through optimization of corridor timing; improved vehicle, pedestrian, and bicycle detection at traffic signals; or the use of connected vehicle technologies

Replacement of outdated traffic signals

For an eligible entity serving a population of less than 500,000, paying the costs of temporary staffing hours dedicated to updating traffic signal technology.

SMART Grant
Eligible Activities

SMART

Development Phase Activities	Construction Phase Activities
Planning	Construction
Feasibility analyses	Reconstruction
Revenue forecasting	Rehabilitation
Environmental review	Replacement
Permitting	Environmental mitigation
Preliminary engineering & design	Construction contingencies
Systems deployment or IT work	Acquisition of equipment
Technology work	
Acquisition of real property	

SMART Grant Timeline
Strengthening Mobility and Revolutionizing Transportation Grant Program

FY22 Awards

FY23 NOFO Release

Application Deadline

Funding Award Announcements

March 2023

Summer 2023 (expected)

TBD

TBD
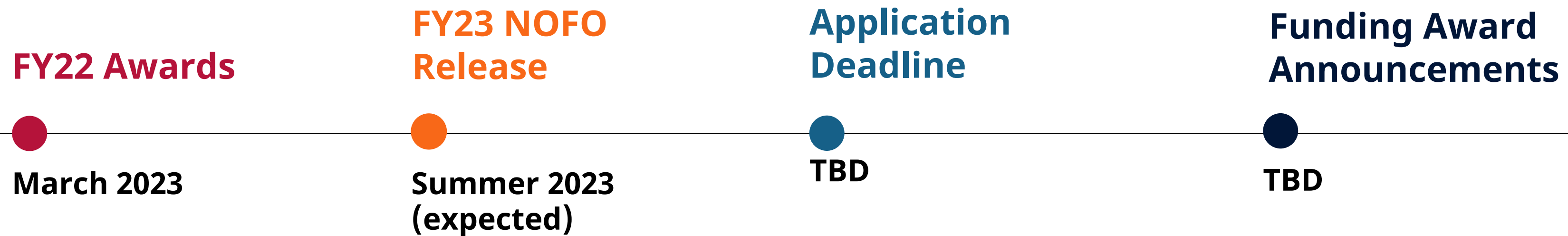
RAISE Grant

Rebuilding American Infrastructure with Sustainability and Equity

RAISE Grant
Grant Overview

Match Requirements

Urban Areas: 80% - unless the project is located in an Area of Persistent Poverty (APP) or Historically Disadvantaged Community (HDC)
- Match must be from non-federal source

Rural Areas: 100%
- There is no maximum federal share for projects located in rural areas, APP, HDC

Minimum Award Size
- **Capital Projects - $1M Rural / $5M Urban**
- **Planning Projects – No minimum award size**

Maximum Award Size
- **$25M BIL**
- **$45M FY2023 Appropriation Act**

RAISE Urban vs. Rural Definitions

URBAN = Urbanized area with population greater than 200,000

RURAL = Urbanized area with population less than 200,000 | Outside an urbanized area

Urbanized Area Map Tool available: https://maps.dot.gov/BTS/GrantProjectLocationVerification/

RAISE Grant
Eligible Applicants

RAISE Grants
Rebuilding American Infrastructure with Sustainability and Equity

- ☑ States
- ☑ Territories or Possession of US
- ☑ Unit of Local Government
- ☑ Public agency or publicly chartered authority
- ☑ Federally recognized Tribe
- ☑ Special purpose district or public authority w/ transportation function (i.e. port authority)
- ☑ Transit agency
- ☑ A multi-state or multijurisdictional group of eligible entities

RAISE Grant
Eligible Projects

- Highway, Bridge, or Road
- Public Transportation
- Passenger and Freight Rail
- Intermodal Projects
- Transportation Projects on Tribal Lands

- Surface Transportation Components of an Airport
  Eligible under part B of subtitle VII of title 49 USC
- Port Infrastructure
  Including Inland Ports and Land Points of Entry
- Culvert Replacement and Rehabilitation
  to Prevent Stormwater Runoff to Improve the Habitat for Aquatic Species
- Planning and Pre-Construction Activities

Source: USDOT

RAISE Grant
Benefit-Cost Analysis (BCA)

RAISE Grants
Rebuilding American Infrastructure with Sustainability and Equity

Application type — BCA needed for capital applications only

Ratings — Costs exceed benefits or benefits execeed costs

BCA Narrative — BCA narrative decribes method and assumptions, BCA calculation file supports narrative

Project Selection — Projects with costs exceeding benefits will not be selected for an award unless it is determined that the project has unqualified benefits for underserved communities

Resources — Further guidance and webinars are available on RAISE website

RAISE Grant Timeline

RAISE Grants
Rebuilding American Infrastructure with Sustainability and Equity

FY23 Awards
(applications submitted Feb 2023)

FY24 NOFO Release

Application Deadline

Funding Award Announcements

June 2023

TBD

TBD

TBD

Reconnecting Communities Grant

Reconnecting Communities Grant
Reconnecting Communities = Thriving Communities

GRANT OVERVIEW

Program Goal: to advance community-supported projects (w/ priority on economically disadvantaged communities) to improve access to daily destinations (i.e. jobs, schools, healthcare, grocery stores, etc.) and foster equitable development and restoration.

Eligible facilities are defined as "transportation facilities that **create barriers to community connectivity**" due to **high speeds, grade separations,** or **other design factors.**

Grant Type	Award Amounts	Match Requirement
Planning Grant	No more than $2M	20%
Capital Construction Grant	No less than $5M	50%

Reconnecting Communities Grant
Eligible Applicants

Planning Grants	Capital Construction Grants
• States • Units of local government • Federally recognized Tribal governments • MPOs • Nonprofit organizations	• Owner of the eligible transportation facility • Eligible applicants to Planning Grants may submit the application <u>as long as the owner of transportation facility is a joint applicant</u>

Transportation Facilities:
- Highways, arterials, parkways, collectors, local roads
- Transit lines or rail lines
- Viaducts or bridges
- Ports, gas pipelines, airports

Reconnecting Communities Grant
Project Examples

Planning grants and Capital Construction Grants will address **removing, retrofitting, mitigating,** or **replacing** an existing, eligible facility to reconnect communities

High-quality public transportation

Infrastructure removal

Pedestrian walkways and overpasses

Capping and lids

Linear parks and trails

Main street revitalization

Roadway redesigns and complete streets conversions

And more!

Reconnecting Communities Grant
Eligible Activities: Planning Grants

PUBLIC ENGAGEMENT STRATEGIES

Including community visioning or other place-based strategies

PLANNING STUDIES TO ASSESS FEASIBILITY

Current traffic patterns • Capacity of transportation networks to maintain mobility needs • Alternative roadway designs or uses for ROW • Impact on mobility of freight and people • Impact on safety • Anticipated economic impact • ….etc.

Reconnecting Communities Grant Timeline

FY22 Awards
(applications submitted October 2022)

February 2023

FY23 NOFO Release

Summer 2023

Application Deadline

TBD

Funding Award Announcements

TBD

Thank you.

Contact Information

Edward Williams, PE, PTOE, RSP

Vice President, TEC Engineering, Inc.

☐ (513) 771-8828

✉ ewilliams@teceng.com