

Local Transportation Project Delivery Workshop

Federal and State Transportation Funding for Local Projects



August 19, 2021

Housekeeping Items

- Mute your microphone and turn your camera off
- Questions must be entered into the chat box
 - Answers will follow at end of presentation
 - All questions will be part of a Q&A document
- Available on SPC website after presentation
 - PowerPoint presentation
 - Recording of presentation
 - Q&A for all questions received during presentation

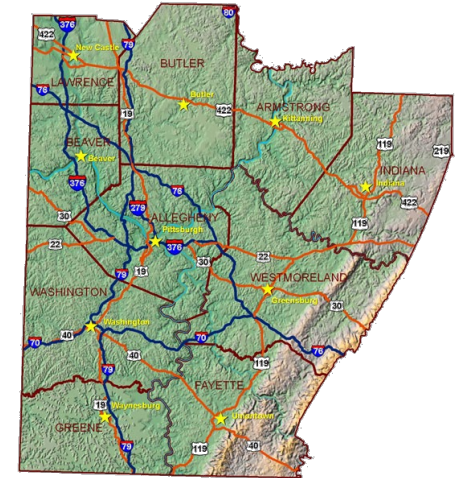
• *Please be advised that this meeting is being recorded for future use and sharing.*

Workshop Outline

- What is Southwestern Pennsylvania Commission
- Current SPC Funding Opportunities
 - TA Program & CMAQ Program
- Other State Funding Programs
 - Project Examples
- Locally Administered Projects
 - Steps, Resources, and Best Practices for Successful Project Delivery
- Q & A

Southwestern Pennsylvania Commission

- The Region's Metropolitan Planning Organization (MPO) & Local Development District (LDD)
- Focused upon Transportation & Economic Development and related programs
- Comprised of County Commissioner appointments, PennDOT, Transit Authorities, and Local, State and Federal Agencies

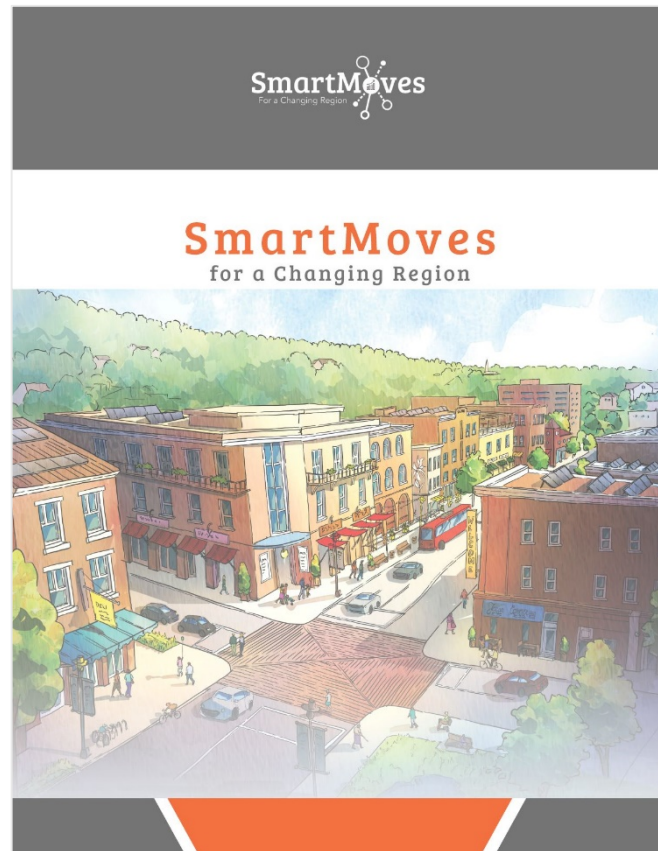


- 10 Counties
- >7,000 square miles
- 2.6 million citizens
- 548 municipalities
- 132 School Districts
- 3 PennDOT Districts
- 10 Transit Agencies



What does SPC do?

- Center for regional collaboration & cooperation
- Coordinates Regional Transportation Planning Efforts
- Regional Long Range Transportation Plan
- Transportation Improvement Program (TIP)
- Technical Assistance
- Regional Data Center
- Commuter Info van pool program
- Water Resource Center
- Small Business Assistance (loans & procurement)
- Economic Development Coordination (PREP/KOZ/ARC)



Transportation Planning

- Who is involved in the process?
 - Public
 - Municipalities
 - Freight, Ped-Bike, Multi-Modal Stakeholders
 - Transportation Management Associations (TMAs)
 - City/County Planning Agencies
 - PennDOT and other State Agencies
 - Regional Transit Providers
 - Elected and Appointed Officials
 - Federal Highway Administration (FHWA) and other Federal Agencies



What is the TIP and What it Means to You.

- The TIP identifies the [region's highest priority transportation projects](#), develops a multi-year program of implementation, and [coordinates available funding](#) for identified projects. The TIP is updated every two years through a cooperative effort of local, state, and federal agencies and the general public.
- Monitor upcoming projects in your municipality for opportunities for collaboration/input.
- Discuss vision/goals of your community with SPC, your County planning office and PennDOT [on](#) local priorities and transportation needs.
- Build/maintain relationships with PennDOT, SPC, and your County Planning Department.

SPC Funding Opportunities

SPC Regional Transportation Alternatives Set-Aside
(TA) Program

SPC Congestion Management and Air Quality
(CMAQ) Program



Federal Funding

SPC & PennDOT Administered: Transportation Alternatives Set-Aside Programs (TA)

SPC & PennDOT programs run concurrently but separate processes and applications.

Type: Reimbursement

Match: Local (preconstruction activities act as local match for 100% federal construction)

Available Funding: \$1.8 million/year, region-wide, and \$18 million/year statewide.

Projects selected by competitive application process every 2 years

Other: Must be consistent regional long range transportation plan.

Eligible Applicants: See handout

Federal Funding

SPC & PennDOT Administered: Transportation Alternatives Set-Aside Programs (TA)

Eligible Uses:

- Bicycle and Pedestrian Facilities
- Safe Routes for Non-Drivers
- Conversion of Abandoned Railway Corridors to Trails
- Historic Preservation of Transportation Facilities
- Construction of Turn-Outs, Overlooks and Viewing Areas
- Outdoor Advertising Management
- Environmental Mitigation (incl. Stormwater &Vegetation Management)

Homewood Pedestrian, Student, & Transit Connectivity Project

SPC TA Approval Amount: \$500,000

PennDOT TA Approval Amount : \$498,793

Sponsor: URA

The project builds upon community priorities and the URA's Homewood TOD Study of 2015, which examined possible infrastructure improvements to initiate Transit Oriented Development in the neighborhood. The project improves existing & creates new multi-modal connections and facilities near the E. Busway Homewood station, Faison elementary school, and regional employment & education centers; improving safety and accessibility.



Before



Currently under construction

TA Application Period

- **PennDOT** accepting applications from June 28 to October 15, 2021
- Application and guidance can be found at:
<https://www.penndot.gov/ProjectAndPrograms/Planning/Pages/Transportation%20Alternatives%20Set-Aside%20-%20Surface%20Trans.%20Block%20Grant%20Program.aspx>
- **SPC** accepting applications from June 28 to October 15, 2021
- Application and guidance can be found at: <https://www.spcregion.org/funding-programs/>

SPC Review and Selection Process

- Voting membership of SPC's Transportation Technical Committee (TTC), PennDOT, the three Transportation Management Associations (TMAs), will act as the selection committee.
- Oct. 18 thru Nov. 17 the applications are reviewed and technically scored by SPC staff.
- Oct. 21 TTC Meeting – applications are reviewed.
- Projects are scored for deliverability.
- Nov. 18 TTC Meeting – Scoring is finalized.
- December TTC Meeting – TA Projects are recommended by TTC.

PennDOT's TA Process is handled separately by PennDOT. See PennDOT website.

Federal Funding

SPC Administered:

Congestion Mitigation and Air Quality (CMAQ) Improvement

Type: Reimbursement

Match: 20%

Available Funding: Approximately \$18 million/year, region-wide. Projects selected through competitive application process every two years

Other: Must be consistent with regional long range transportation plan. Must be used in Air Quality Non-Attainment or Maintenance Areas

Eligible Applicants: Nonprofit organizations are not eligible as direct recipients of funds, but may partner with any eligible entity on a project

Federal Funding

Congestion Mitigation and Air Quality (CMAQ) Improvement

Eligible Uses:

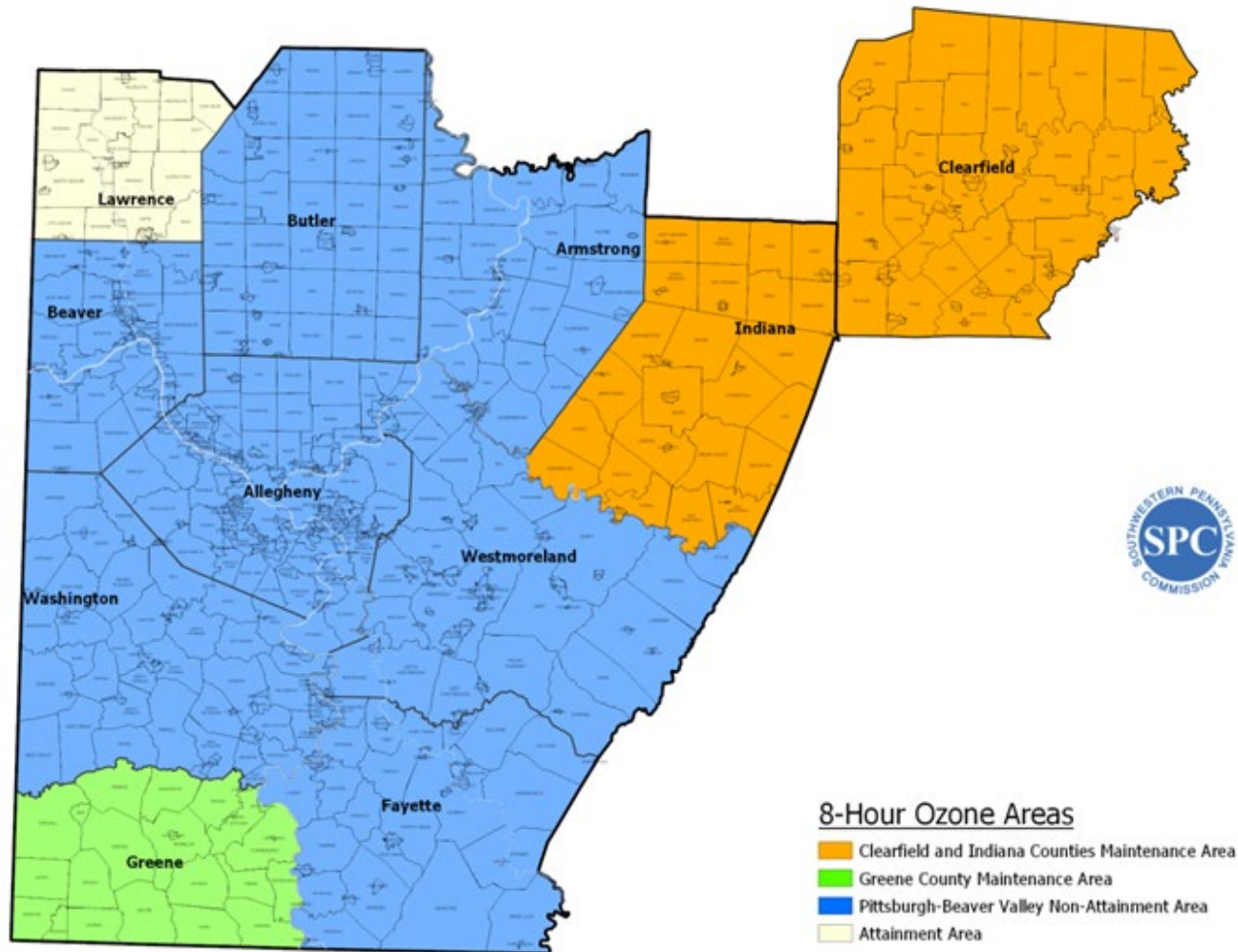
- Public Transportation (Bus Procurement, Park and Rides)
- Traffic Flow and HOV Lanes (non-Single Occupancy Vehicle capacity increases)
- Non-recreational bicycle and pedestrian facilities
- Ride Sharing and Transportation Demand Management (TDM)
- Alternative Fuels
- Traffic Signal Upgrades and Modernizations; Adaptive Signals
- Intermodal Connections

Examples of Projects NOT Eligible – New Highway Capacity Adding Projects, Maintenance Projects, Planning Studies

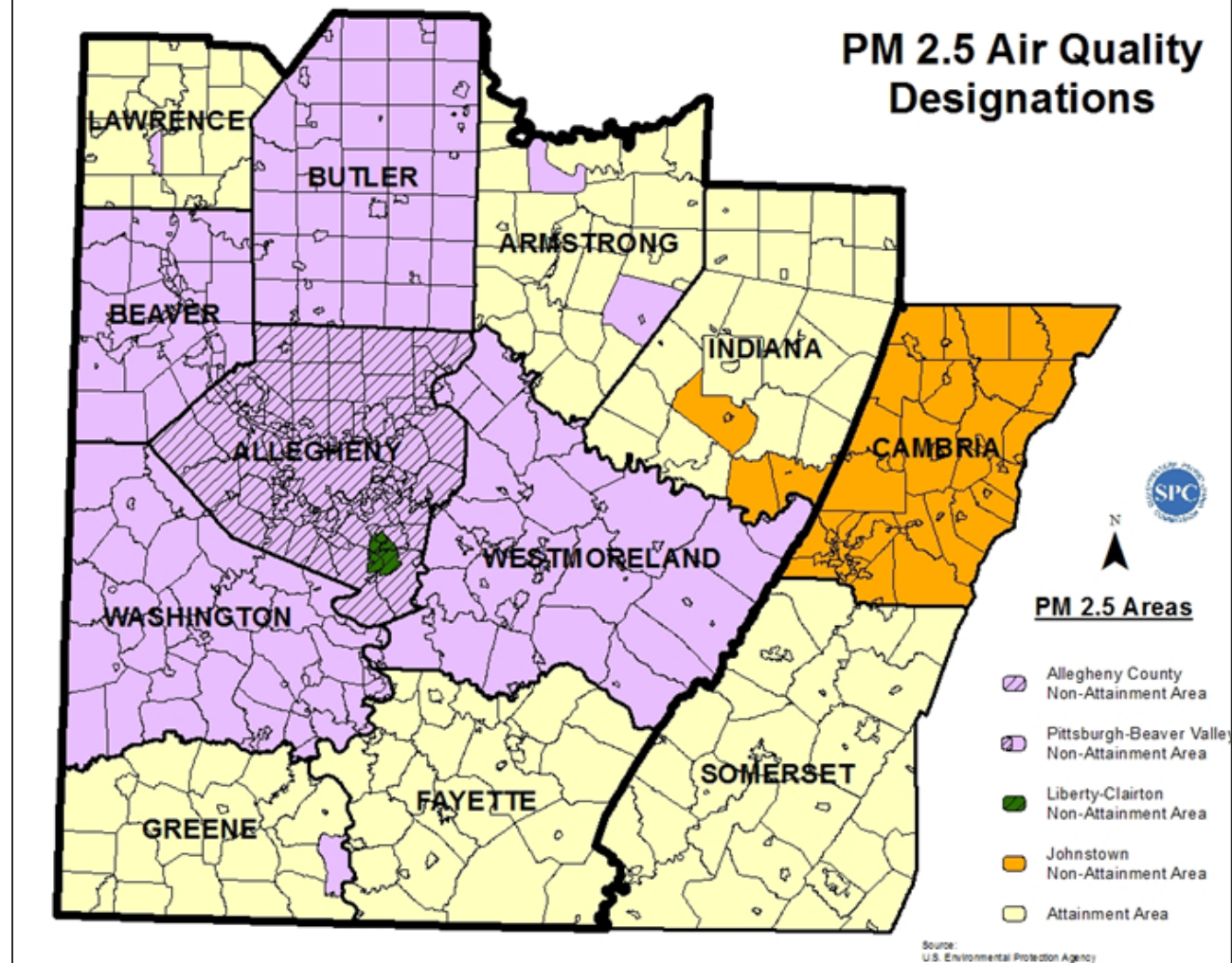
CMAQ Application Period

- SPC accepting applications from August 23 to September 24, 2021
- Application and guidance will be available on SPC's website
- **Pre-Qualification Screening:** To be eligible for CMAQ funds a project must be a **transportation project consistent with the region's adopted Long-Range Transportation Plan** (Smart Moves for a Changing Region), be located **in an air quality nonattainment or maintenance area**, and have **demonstrated air quality benefits within the nonattainment area**. For example, projects in an ozone nonattainment area should be able to demonstrate reductions in ozone precursor emissions. Likewise, projects in PM nonattainment areas should be able to demonstrate reductions in particulate emissions

8-Hour Ozone Areas



PM 2.5 Air Quality Designations



SPC Review and Selection Process

- CMAQ Evaluation Committee (CEC) assists in prioritizing the candidate projects and makes recommendations to SPC's TTC.
- Membership of the CEC is a balanced and diverse representation the SPC committees and air quality planning partners.
- The CEC will prioritize the candidate projects based on the air quality technical analysis, the ancillary selection factor ratings that will be completed by SPC staff, and the evaluation of deliverability/project readiness.
- Candidate projects will be recommended in December of 2021 to the SPC's Executive Committee.

Allegheny Circle Phase 2

CMAQ Approval Amount: \$1,200,000

Total Project Cost: \$2,638,000

Sponsor: City of Pittsburgh

This project is the conversion of Allegheny Circle from one-way traffic to two-way traffic. The project includes the upgrading of signals, pavement markings, delineation, signing, ADA ramps, the removal of concrete islands at the intersections, and the reconfiguration of the intersections to protected intersections with small separation islands to minimize conflicts between traffic and bicycles and pedestrians.



Before



Currently under construction

Other CMAQ Example Projects Funded by SPC

- Transit Bus replacements –various transit operators
- Regional Signal Improvement Program
- Freeway Service Patrols (Parkway and SR 28)
- Port of Pittsburgh Marine Diesel Retrofits →
- Pittsburgh Healthy Ride Bike Share start-up
- Pittsburgh Bus Rapid Transit Downtown Improvements
- Westmoreland Transit's new PNR lot at Carpenter Lane and Route 30.
- Adaptive Signal Technology Systems on PennDOT Roadways (SR 19 Washington Road, SR 19 Banksville Road, SR 51 Clairton Boulevard, SR 88 Library Road, and others)



Local Transportation & Community Funding Programs

Pedestrian Improvements

Bicycle Improvements

Connecting Community Assets

- Multimodal Transportation Funds
- Greenways Trails Recreation Program
- DCNR: Community Conservation Partnerships

PennDOT

Multimodal Transportation Fund

Type: Reimbursement: on a monthly basis, based on invoices

Match: 30% of requested amount

Other state or federal agency grant can not be used as match

Available Funding: \$77 million/year, state-wide. Projects selected by competitive application process, usually every year, fall-winter.

Other: Project cost of \$100,000 or more; grants normally will not exceed \$3,000,000.

Multimodal Transportation Fund

Eligible Uses:

- Projects which coordinate local land use with transportation assets to enhance existing communities
- Streetscapes, lighting, and pedestrian safety
- Projects improving connectivity or the utilization of existing transportation assets
- Projects related to the development of transit-oriented development

SR 51 Island Ave. (CSX Multimodal Project)

PennDOT MTF Approval Amount: \$1,102,300

Sponsor: CSX

The intersection improvement project installed a traffic signal and center turn lane and updated ADA curb ramps in McKees Rocks, PA.



Before



After

Department of Community and Economic Development (DCED)

Multimodal Transportation Fund

Type: Reimbursement - DCED will release funds to the applicant at 30-day intervals

Match: 30% of requested amount; (cash contributions or equivalents for the appraised value of the real estate necessary to construct project)

Eligibility/Availability:

- Round opens annually, summer
- Local Government, COG, Business, Economic Development Organization, Public Transit Agency, Port Owners

Other: Projects must have a total cost of \$100,000; generally requests do not exceed \$3,000,000.

Department of Community and Economic Development (DCED)

Multimodal Transportation Fund

Eligible Uses:

- Projects which coordinate local land use with transportation assets to enhance existing communities, ensure a reliable transportation system, and encourage economic development
- Streetscapes, lighting, and pedestrian safety
- Projects improving connectivity or the utilization of existing transportation assets
- Projects related to the development of transit-oriented development

DCED: Act 13 Program

Greenways, Trails & Recreation Program

Type: Reimbursement - DCED will release funds to the applicant at 30-day intervals

Match: 15% Local; cash match of the total project cost or cash equivalents for the appraised value of real estate

Available Funding: Opens annually (winter-spring), grant not to exceed \$250,000

DCED: Act 13 Program

Greenways, Trails & Recreation Program

Eligible Uses:

- Projects: Public Park & Recreation Areas, Greenways & Trails, Rivers Conservation
- Activities: development, rehabilitation, improvement, planning, & acquisition

Etna Riverfront Park & Trail Project

TA Approval Amount: \$400,000

PennDOT TA Amount: \$383,000

Total Project Cost: \$1,330,000

Other Funds: MTF, GTRP, others

Sponsor: Borough of Etna



A key component to the connections needed for the further development of the Three Rivers Heritage Trail, part of the proposed Erie to Pittsburgh Trail and the Harrisburg to Pittsburgh Mainline Canal Greenway. The project will construct a riverfront park, trail, and trail access point on a former brownfield site owned by the Borough of Etna, located upstream of Sharpsburg Borough and downstream of Shaler Township.

Community Recreation and Conservation Program (C2P2):

Awarded to municipalities and authorized non-profit organizations for recreation, park, and conservation projects

Activities: planning, land acquisition, new development & rehabilitation

Match: 50%, which can include a combination of cash and at times in-house services, donated services, equipment use, and volunteer labor

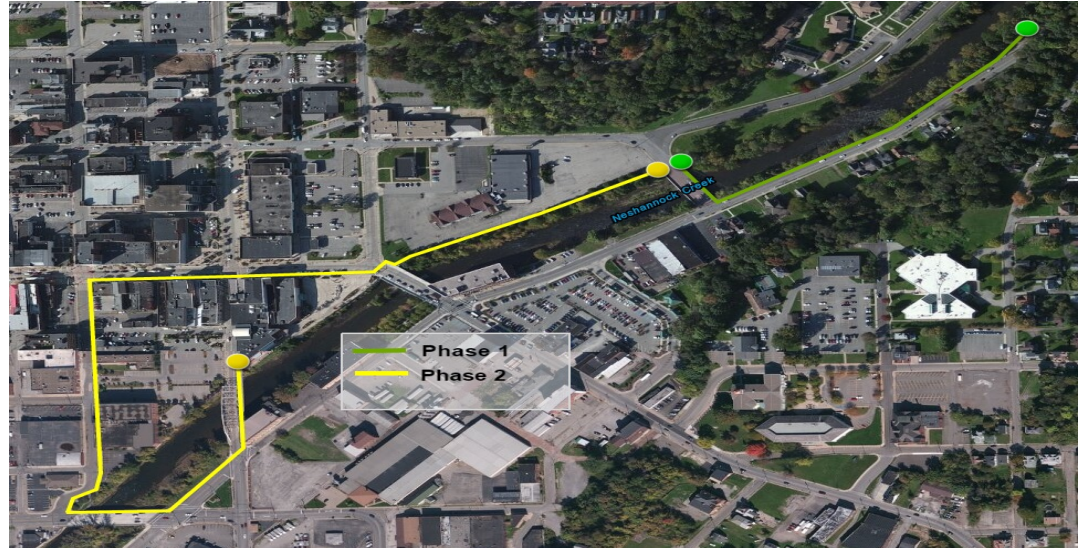
Available Funding: Opens annually (winter-spring), awarded amounts vary based on project

New Castle Multimodal Regional Riverwalk Project (Phase II)

TA Approval Amount: \$1,103,939

DCNR Approval Amount: \$462,000

Sponsor: City of New Castle



The overall project will replace deteriorated infrastructure to create a pedestrian and bicycle friendly environment that is well connected to existing infrastructure and new access points, resulting in a more walkable and livable regions, while promoting tourism and economic development.

Local Transportation & Community Funding Programs

Traffic Signal Programs

- Green Light-Go Program
- Automated Red Light Enforcement Program

PennDOT

Green Light-Go Program*

Type: Reimbursement

Match: 20% Local

Available Funding: up to \$40 million/cycle, state-wide. Projects usually selected annually by competitive application process

Other: Projects are completed on existing signals on state and local highways

Eligible Applicants: Municipalities, Counties, Planning Organizations

Green Light-Go Program*

Eligible Uses:

- Study and removal of unwarranted signals
- Traffic signal timing
- LED replacements
- Asset management
- Traffic signal operations and maintenance
- Innovative technologies
- Communications
- Detection and controller upgrades
- Modernization upgrades

Automated Red Light Enforcement Transportation Enhancement Program (ARLE)

Type: Reimbursement

Match: N/A; however, limited funds available and cost sharing is encouraged.

Available Funding: Historically between \$3 and \$8.8 million/year, statewide. Projects selected by competitive application process (every year).

Automated Red Light Enforcement Transportation Enhancement Program (ARLE)

Eligible Uses:

- Study and removal of unwarranted signals
- Traffic signal timing
- LED replacements
- Construction of turn lanes
- Signage, roadway re-striping, guiderails, and center line rumble strips
- Traffic signal operations and maintenance
- Innovative signal technologies
- Communications
- Detection and controller upgrades
- Modernization and safety upgrades
- Drainage improvements

Local Transportation & Community Funding Programs

Bridge Improvements

Loan Programs

Other Funding Programs

Planning Programs

- TIP Funds
- Pennsylvania Infrastructure Bank
- Foundations, County Programs, & Others

Federal & State Funding

Transportation Improvement Program (TIP) Off-System Bridge Funds

- Municipalities must work with their County Planning Departments and SPC for a project to be considered and deemed eligible for TIP funding.

Type: Reimbursement

Match: 20% (can use state funding as match)

Available Funding: Approximately \$18.5 million/year, region-wide. Projects selected through TIP process.

Other: Bridge must be structurally deficient & project must be consistent with regional long range transportation plan.

Loans, Foundations, County Programs & Others

Pennsylvania Infrastructure Bank

A PennDOT program that provides low-interest loans to accelerate priority transportation projects, spur economic development and assist local governments with their transportation needs

Type: Loan; current interest rate is 1.625%

Eligible Uses:

- Design, engineering, right-of-way, repair, and construction of public transportation facilities, highways, bridges and private airports, railroads, and rail freight facilities

County Programs

- Certain counties have specific programs for their municipalities.
- Gaming Revenue (Local Share Account Program, CITF, GEDF)

Foundations & Other Grant Opportunities

- There are other options depending on your needs; contact us!

Planning Programs

DCNR C2P2

DCED Municipal Assistance Program

GTRP

PA Department of Health: *PA WalkWorks*

LOCALLY ADMINISTERED PROJECTS

STEPS, RESOURCES, AND BEST PRACTICES
FOR SUCCESSFUL PROJECT DELIVERY



Where to Start?

Municipal Plans

- Comprehensive Plan

County Plans

- Comprehensive Plan
- Active Transportation

Regional Plans

- SmartMoves for a Changing Region

Where to Start?

Purpose

- Broad statement of overall objective
 - Can also include secondary goals

Need

- Key problems to be addressed
 - Tangible & fact based
 - Focused on transportation, not solutions

Typical Categories of Needs

Congestion/Capacity

Facility Deficiencies/Structure Conditions

System Linkage/Connectivity/Modal Interrelationships

Economic Development

Legislative Intent

Deficiencies

Original	Improved
<p>“The existing bridge needs to be replaced.”</p> <ul style="list-style-type: none">• Why?• What is wrong with the existing bridge?	<p>“The one-lane bridge is in poor condition and weight restricted, causing 10-mi detours for buses & EMS providers”</p>
<p>Facts could have to support:</p> <ul style="list-style-type: none">• Is it poor condition/functionally obsolete? (List specific deficiencies.)• Is it a single lane? Does it include shoulders?• Are there sight distance/approach issues?• What is the traffic mix/volume?• Is it weight restricted? EMS/bus issues?• Where is the next crossing?	<p>Facts/Evidence:</p> <ul style="list-style-type: none">• Fire trucks/buses cannot cross weight-restricted bridge• Detour is 10 miles (explain hardship for EMS/buses)• Substantial traffic crosses this bridge (give #s)

Connectivity

Original	Improved
<p>“The trails along the river need to be connected”</p> <ul style="list-style-type: none">• What is the evidence?	<p>“There are numerous biking/walking trails along the north and south banks of the river; however, there is no means to cross the river between the trail system”</p>
<p>Facts could have to support:</p> <ul style="list-style-type: none">• Provide trail maps• How heavily are the trails used?• Would users cross if that were an option?• Show nearest river crossing locations/conditions	<p>Facts:</p> <ul style="list-style-type: none">• Provide trail maps• Trail use• Show nearest river crossing locations/conditions

Who to Call?

Contact your Local PennDOT District / SPC / County to discuss your proposed project.

A pdf handout with contacts is available on the website (link will be in chat box).

Get Educated

PennDOT's Local Project Delivery Manual

- Overview of required processes for delivering local projects using federal / or state funding administered through PennDOT
- Prepared by PennDOT in coordination with FHWA
- Local Project Delivery Website: www.penndot.gov/Doing-Business/LocalGovernment/Pages/Local-Project-Delivery.aspx



PennDOT Publication 740

Get Educated



- Online Library
- Informational Videos
- Specifically for Local Public Agencies

www.fhwa.dot.gov/federal-aidessentials/

The screenshot shows the 'Federal-aid Essentials for Local Public Agencies' webpage. At the top is the FHWA logo and a search bar. The main heading is 'Federal-aid Essentials for Local Public Agencies'. Below this is a navigation bar with links: HOME, ABOUT, FEDERAL-AID ESSENTIALS VIDEO LIBRARY, and STATE RESOURCES. A large video player is the central focus, showing a man speaking in front of a screen displaying the website's interface. To the right of the video is a text box titled 'Federal-aid Simplified. Understanding the Essentials.' which explains the purpose of the video library. Below the video player is a search bar with the text 'I want to know more about...' and a dropdown menu showing 'the Federal-aid process'. To the right of this is a 'Stay Connected with FHWA' section with social media icons for Facebook, Twitter, and YouTube. The footer contains the FHWA logo, contact information, and links to various policies and reports.

Get Educated



- Early Community Collaboration
- Ensures a Holistic Process
- Opportunity to be innovative when thinking about solutions
- www.penndot.gov/ProjectAndPrograms/Planning/Pages/PennDOT-Connects.aspx

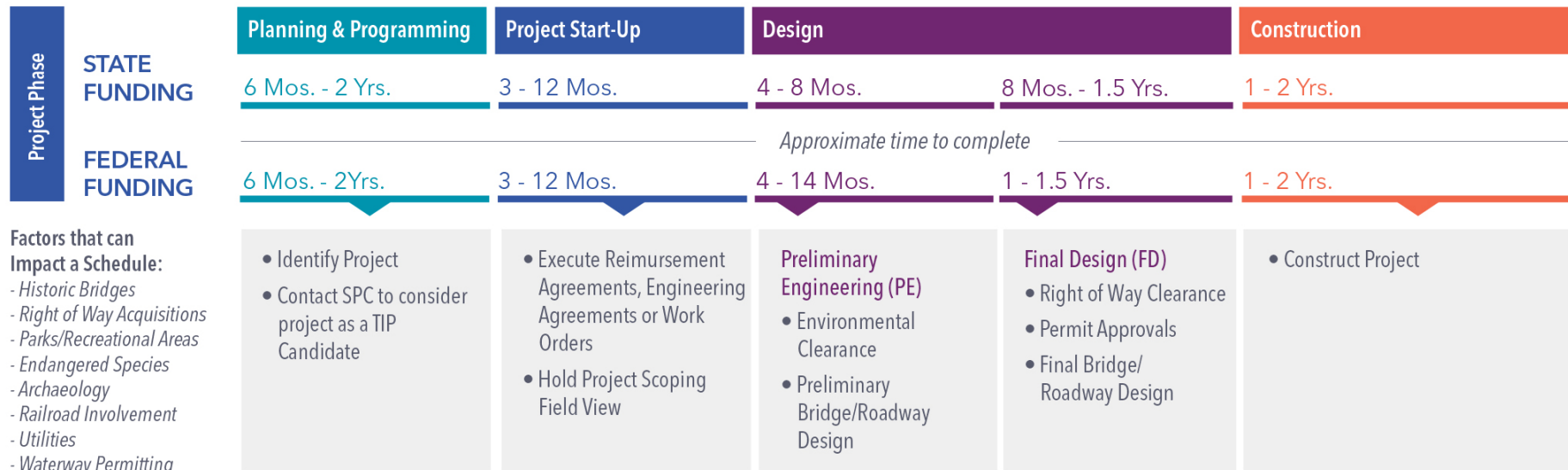
Project Administration

Project Scope, Cost Estimate, Schedule

- Preliminary scope reviewed during PennDOT Connects Discussion
- Estimate provided by person familiar with PennDOT processes
- Build schedule according to PennDOT timeframe
- Every project is unique

General Project Development Flowchart

Locally Sponsored Projects




Project Administration

pennsylvania DEPARTMENT OF TRANSPORTATION **ECMS** **ENGINEERING AND CONSTRUCTION MANAGEMENT SYSTEM** pennsylvania **logout** **ANONYMOUS**

[home](#) [site map](#) [help](#)

[Business Partner](#) [Solicitation](#) [Engineering Agreements](#) [Construction Projects](#) [References](#)

Welcome to PennDOT's Engineering and Construction Management System



Need Help? Call the ECMS Help Desk at 717-783-7711, Monday through Friday 8 AM till 4 PM
Welcome to the Engineering and Construction Management System. This site provides up-to-date information on PennDOT's construction projects, construction contracts and consultant agreements.

Links

- Recent Bulletins - View the latest ECMS Bulletins
- FAQs - View Frequently Asked Questions
- Register as a Business Partner** - View information on how to register as a Business Partner
- Project Management - View Project Management Information
- ECMS User Security and Password Maintenance
- Contractor Integrity Provisions
- Helpful Hints

Bulletins

- Business Partner
- CHANGES TO PREQUALIFICATION FOR BRIDGE PAINTING**
- General Information
- Immediate Suspension of Trinity ET-Plus System
- 2014 - 2017 let date calendars
- District Map
- Helpful Hints
- DSP4 Guidance for Construction Contracts
- Diverse Business Program (DSP4) FAQs
- Password Update; Compatibility; Challenge Question

You are currently logged in as **Anonymous**. If this is incorrect, please [login](#). Your session will timeout in 29 minutes.

Release: 32.0
Session size: 0.1k

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[PennDOT Privacy Policy](#)

Thu Nov 20 11:42:13 EST 2014
Official ECMS Date/Time

Information on how to register as a Business Partner can be found on the ECMS home page.

Project Administration

 **RAS** REIMBURSEMENT AGREEMENT SYSTEM  [logout](#)
[home](#) [site map](#)

[Templates](#) [Agreements](#) [Reports](#) [Work Queue](#) [RAS Help](#)

Welcome to PennDOT's Reimbursement Agreement System (Affiliated to Engineering and Construction Management System)



[Need Help ? Contact Us](#)

Reimbursement Agreement Search

- [Advanced Search](#)

Agreement: - 

Express Searches (Results will display past 12 months of agreements)

- Executed Agreements
- Withdrawn Agreements
- Expired Agreements
- Cancelled Agreements
- Executed Modifications
- Withdrawn Modifications
- Expired Modifications

Links

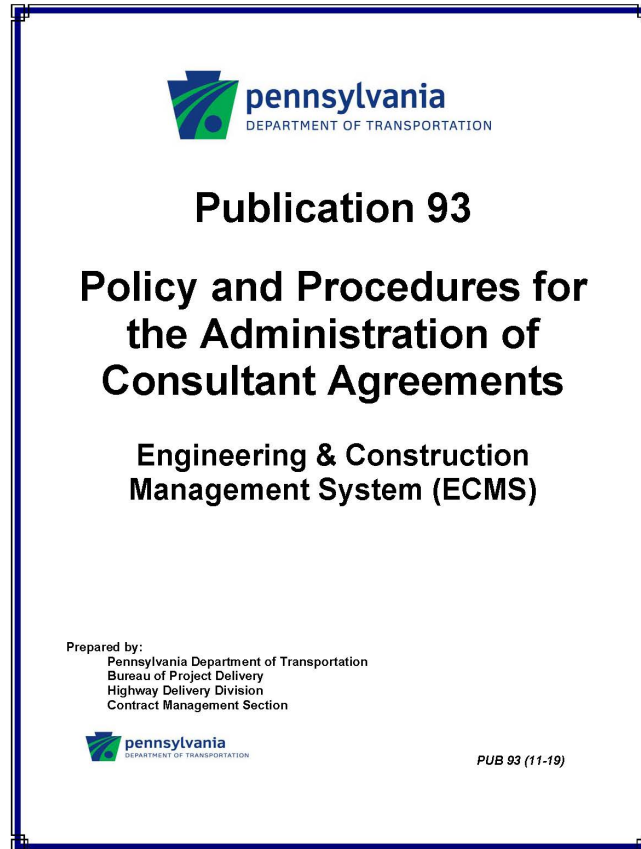
[Register as a Business Partner - View information on how to register as a Business Partner](#)
[ECMS User Security and Password Maintenance](#)

Bulletins

[General Information](#)
[Right To Know Law compliance](#)

- Agreements can take 3-4 months to go through the process
- Agreement must be fully executed before any work that will be reimbursed can start
- Reimbursement Program, Not a Grant Program

Project Administration



Project Administration

Select consultant using appropriate selection procedures

Large Project Procedures

- Contracts > \$150K

Small Project Procedures

- Contracts < \$150K

Utilize Designated Municipal Engineer

TIP: Utilize consultants with previous experience with similar projects and/or PennDOT procedures

Project Administration

Utilize Designated Municipal Engineer

- Select using an approved competitive, qualification-based selection procedure
- Qualified to complete specific type of work
- Must be approved by PennDOT
- Designation of municipal engineer valid for a period of no more than 5 years

Project Administration - Milestones

Environmental Clearance

Utility Clearance

Railroad Clearance

Right-of-Way Clearance

PS&E Package

Summary

Must be a PennDOT Business Partner, get RAS access and follow Pub. 93.

Projects with PennDOT require a Reimbursement Agreement

- Through RAS site
- Resolution for signatory authority

A consultant with PennDOT experience is very helpful

- Scoping
- Budgeting
- Designing
- Understanding the schedule and what significantly impacts schedule

Questions?

