Transportation Improvement Program

- What is it?
  - Federally-mandated, fiscally-constrained 4-year program of high priority infrastructure projects utilizing federal funding:
    - Highway – Route 22 Widening; Route 33 Extension; American Parkway; Route 222
    - Bridge – Route 22 over Lehigh River, Coplay-Northampton Bridge, Fahy Bridge
    - Public Transit – Bus/Van replacements
    - Bicycle/Pedestrian – Shared Lane Markings; trail, sidewalk, ADA curb ramps
    - Rail Grade Crossing Improvements
Transportation Improvement Program

• Why is it important?
• Allows the use of federal transportation funds on projects in the Lehigh Valley
• Projects must be listed in the TIP to be eligible for federal funding
• Prioritizes infrastructure priorities by inclusion for funding
Transportation Improvement Program

• How do I get my project considered for the TIP?
  • Submissions made to Lehigh Valley Transportation Study (LVTS) through the Lehigh Valley Planning Commission during Long Range Transportation Plan (LRTP) updates
  • LRTP updated on 4 year cycle; Next plan due October 2019
  • Call for Projects issued in conjunction with LRTP updates
  • Project submissions evaluated using project selection criteria that meet federal standards
LONG RANGE TRANSPORTATION PLAN

2017 – 2040
Long Range Projects
Updated every 4 Years

12 Year Program
2019 – 2031
Medium Range Projects
Updated every 2 Years

TIP
2019 – 2022
Highest Priority Projects
Updated every 2 Years
Ensuring Consistency with Regional Goals

Long Range Transportation Plan + Comprehensive Plan = 1 Regional Strategy
Ensuring Consistency with Regional Goals

1 Regional Strategy

Transportation Improvement Program
PROJECT SELECTION CRITERIA

- Safety +
- Asset Preservation +
- Mobility +
- Partnerships +
- Supports the Region +

Operations
System Maintenance
Congestion Management
Shared Contribution
Performs Over Time
Consistency with Regional Goals
Congestion Mitigation justification
System Maintenance & Preservation criteria
- Roads - IRI (International Roughness Index), OPI (Overall Pavement Index)
- Bridges - Weight restrictions posted, closed, structurally deficient, functionally obsolete
- Transit - Capital assets management
- Bike/Pedestrian – Safety analysis with regional greenways and municipal priorities
- Rails - Safety analysis & freight needs assessment with system owners & local governments

Safety Evaluation
Performance Measures
Air Quality Conformity
Local funding contribution
PROJECT FUNDING CATEGORIES

Highway

Transit

Bridge

$145,855,085

$388,433,941
Fixing America’s Surface Transportation Act

Federal Government

State Government

LVTS
Lehigh Valley Transportation Study
2019-2022
TOTAL INVESTMENT
$534,289,026

2017-2020
TOTAL INVESTMENT
$458,328,221
Notable Projects Include:

- Route 22 Restoration – 25th St. to Farmersville Road
- Route 22 Restoration – Farmersville Road to Route 512
- Route 33 Northbound Bushkill Creek Bridge
- Country Club Road Bridge over Route 22
- Route 33 Preservation – Main Street to Belfast Road
- Water Street Bridge over Saucon Creek
- Cementon Bridge
- Cooplay-Northampton Bridge
- Route 309/Tilghman Street Interchange Reconstruction
- State Route 222/863/Schantz Road Roundabout
- Route 100 Reconstruction
- Route 22 Widening – 15th Street to Airport Road
- Route 22 Resurface – Route 309 to I-78 split
- Route 22 Resurface – 15th Street to Route 309
Why Conformity Analysis?

- Required by Law
  - Clean Air Act Amendments (1990)

- Conforming Transportation Activities Will Not:
  - Cause New Air Quality Violations
  - Worsen Existing Violation(s)
  - Delay Timely Attainment of National Ambient Air Quality Standards

- Secure Federal Funding and Approval for Road, Rail, Pedestrian, Bike, Bridge and Transit Projects
Emission Sources

- Current analysis – Mobile sources only

- On-Road
- Non-Road
Emissions Budgets

- The maximum limit of emissions allowed for each pollutant

- Established by Pennsylvania Department of Environmental Protection and US Environmental Protection Agency

- Unique for each pollutant
## Emissions Results - Ozone

- **OZONE EMISSION ANALYSIS RESULTS AND CONFORMITY TEST. (Summer Weekday)**

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<th>Pollutant</th>
<th>2018 Budget (tons/day)</th>
<th>2022 (tons/day)</th>
<th>2025 (tons/day)</th>
<th>2035 (tons/day)</th>
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Emissions Results – PM$_{2.5}$

- PM2.5 EMISSION ANALYSIS RESULTS AND CONFORMITY TEST
- (Annual Analysis Runs)

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<thead>
<tr>
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<th>2025 (tons/year)</th>
<th>2035 (tons/year)</th>
<th>2040 (tons/year)</th>
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Traffic Analysis Zones in LVPC Region with Degrees of Disadvantage - DRAFT

Note: "Degrees of Disadvantage represent persons at or below the poverty level and minority persons."
PARTICIPATE
OPEN FOR COMMENT
April 23 – May 22, 2018

PUBLIC MEETINGS
May 2, 2018
• 12:00 pm @ LVPC
May 8, 2018
• 6:30 pm @ Bethlehem Public Library

DOCUMENTS AVAILABLE FOR REVIEW AT:
• LVPC Offices and online at www.lvpc.org
• PennDOT District 5 Office
• LANTA Offices
• Allentown Public Library
• Bethlehem Public Library
• Easton Public Library
2019-2022 Transportation Improvement Program

Schedule

- Project lists collaborated through March
- Draft TIP Released by LVTS: April 4th
- Air Quality Conformity Analysis: Complete April 19th
- Public review and comment period: April 23 – May 22, 2018
- LVTS adoption: June 6, 2018
- Federal review and approval: July – September 2018
- TIP becomes active October 1, 2018 through September 30, 2022
Contact:
Michael Donchez at (610) 264-4544 or mdonchez@lvpc.org