

# WORKSHOPLV WORKSHOPLV ENVIRONMENT TRANSPORTATION







**Priority Climate Action Plan** 

#### **Transportation Decarbonization**

# **Meeting Agenda**

- Welcome and Introductions
- Overview of EPA Climate Pollution Reduction Grant Program and the Priority Climate Action Plan
- PennDOT Carbon Reduction Strategy
- Comparing CPRG and CRP programs
- Interactive Activity Results from Previous Workshop
- Priority Climate Action Plan Draft Outline
- LANTA Presentation
- Next Workshop Meeting



# **Ground Rules**

- 1. All people are welcome here: We continue to build a bigger table to bring more people into this work.
- 2. This is a safe space: We are all coming into this workshop with different backgrounds and knowledge bases. All questions are good questions, as long as they are based in respect.
- **3.** Questions are encouraged: There will be opportunities for questions and comments throughout the presentation portion of the agenda.
- Participation is key: There will be opportunities for verbal and non-verbal participation – both are important. Please be conscientious of your participation in both sections.







### **Introductions – Welcome!**

### Let us know who you are and who you represent







## **Climate Pollution Reduction Grants (CPRG)**

Inflation Reduction Act authorized the United States Environmental Protection Agency (EPA) to provide funding for CPRG program



CPRG provides funding for larger metro areas to create climate action plans



Metro areas each received \$1 million in planning grant funds This grant will allow for the LVPC to create a plan to apply for the larger, more competitive funding round for projects.







# **Carbon Reduction Program (CRP)**

- Emphasis areas of PennDOT plan:
  - EV infrastructure, congestion reduction, and multimodal transportation projects
- Key role of CRP is to "Coordinate with local agencies and climate action plans (CAPs)"
- Lehigh Valley is receiving ~\$10.5 million in funding for projects
- We are not required to create plan for CRP
  - Opportunity to integrate with PCAP

VPC Valley Planning Commission



CRP Goal: Provide funds for projects designed to reduce carbon emissions from on-road highway sources

## **Comparison of CPRG and CRP**

**CPRG** 

- Climate Pollution Reduction Grant
- Administrated
   through the EPA
- PCAP is first step of CPRG program
  - Need to apply for implementation (project) grant funds
    - No control over
       project selection

- Carbon Reduction
   Program
  - Administrated through the USDOT

CRP

- CRP will be integrated into PCAP
- Lehigh Valley is slated to receive project funds
- LVTS awards CRP funds to projects

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**Plan for and** 

fund

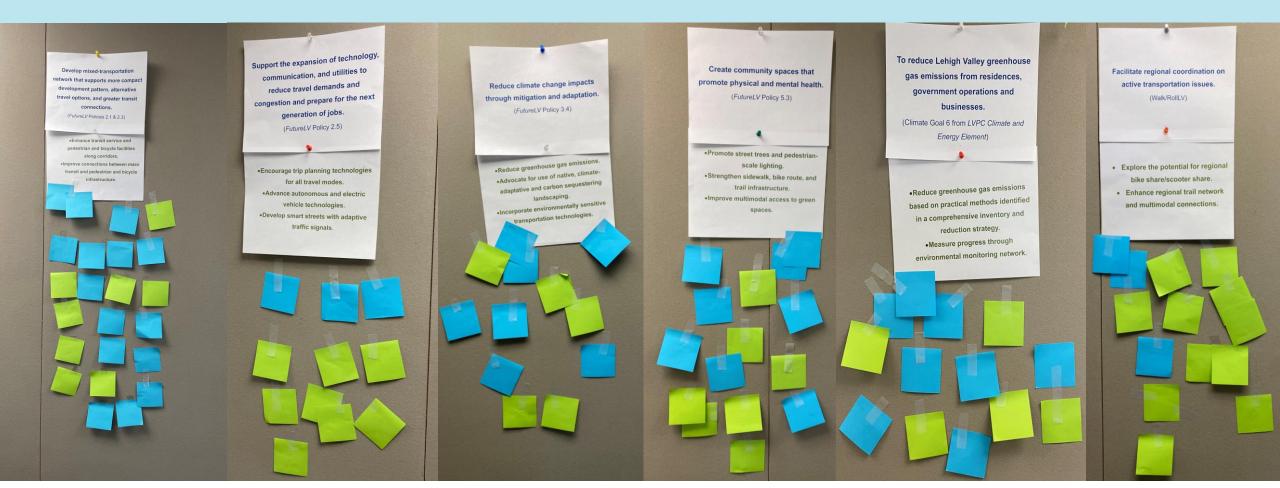
transportation

decarbonization

projects

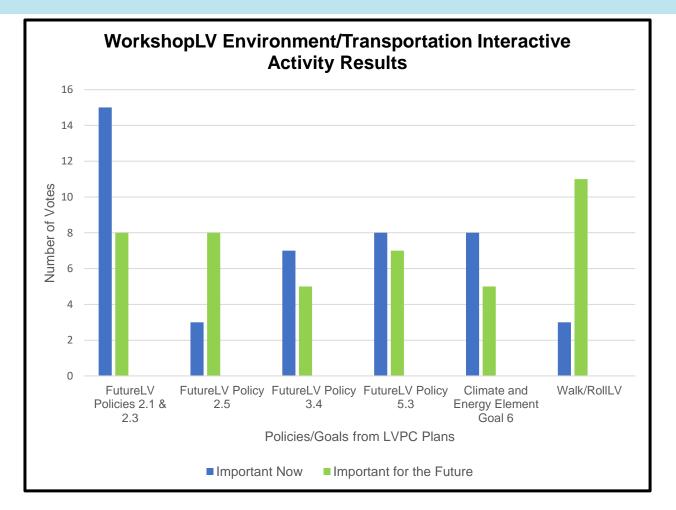


#### **Interactive Activity Results**





### **Interactive Activity Results**





# **Questions?**







# Priority Climate Action Plan Draft Outline







## Introduction

#### Overview of CPRG Program and Priority Climate Action Plan

• What is the PCAP? Purpose and scope of the PCAP?

#### Importance of Climate Change

- Background and history
- Relationship between climate change and transportation
- State, national, and global carbon reduction targets
- Why Transportation?







# **Supporting Plans and Initiatives**

- Existing LVPC Plans that Support Transportation Decarbonization
  - FutureLV: The Regional Plan, Walk/RollLV, Climate and Energy Element, Livable Landscapes, Transportation Safety Plan, and others

#### Partner Plans at Each of These Levels:

- Local
- Regional
- State
- Federal







# **Coordination and Outreach for PCAP Development**

#### **Key Coordination Partners for PCAP**

- Roles and responsibilities of key stakeholders in transportation
   decarbonization
- Stakeholder engagement and collaboration
  - WorkshopLV Environment/Transportation Meetings







# **Lehigh Valley Data Analysis**

#### Lehigh Valley Transportation Sector GHG Inventory Update

- Current state of GHG emissions from the Lehigh Valley's transportation sector
- Future emission projections
- Targeted reductions and the pathway to achieve them

#### Other Particulates That Impact the Region

- PennDOT Regional Air Quality Performance Measures (PM 2 and 3)
- Role of the Lehigh Valley in the state's GHG reduction trajectory





# **Equity and Environmental Justice**

### Low Income and Disadvantaged Communities Benefits Analysis

- Justice40
  - US EPA Environmental Justice (CEJST Tool)
- PA DEP Environmental Justice Tool







## **Goals and Policies**

- Goals
- Policy Measures to Reach Goals and Estimated GHG/Emissions Reductions

#### Policy Areas:

- Reduce vehicle miles traveled (VMT)
- Transit and supportive land-use/development
- Electric vehicles and alternative fuels infrastructure
- Walking and rolling
- Congestion management
- Green infrastructure









## **Action Plan**

- Transportation Systems Planning
- Review of Authority to Implement Strategies
- Project Development, Design, and Environmental Review
- Governance Structures Supporting Transportation
   Decarbonization







# **Priority Strategies for CRP Funding**

#### Transportation Project Eligibility and Funding Guidance

#### Strategic Areas for Funding Allocations

- Electric Vehicle Infrastructure and Incentives
- Freight and Traffic Operation Strategies
- Travel Demand Management (TDM) Strategies
- Application of Lower Carbon Materials in Transportation Infrastructure
- Walking and Rolling

#### Regional Allocations of Funding







## **Funding Allocations to Region**

Congestion Mitigation and Air Quality (CMAQ) Transportation Alternatives Set-Aside (TASA)

Carbon Reduction Program



Transportation Resiliency (PROTECT)

Federal Transit Funding

CPRG Implementation Funding







# **Integrating a CRP Project Selection Process**

- Framework for a Project Selection Process
  - Steps to identify, evaluate, and select projects
  - Criteria to prioritize projects with greatest decarbonization potential
- Implementation Project Plan and Timeline







# **Conclusion and Summary**

- Restating Importance of Transportation Decarbonization
- Recap of Plan's Goals, Expected Outcomes, and Path Forward
  - Comprehensive Climate Action Plan (CCAP), progress monitoring, Long Range Transportation Plan (LRTP)
- Emphasis of Community Involvement and Collective Action





# **Questions?**

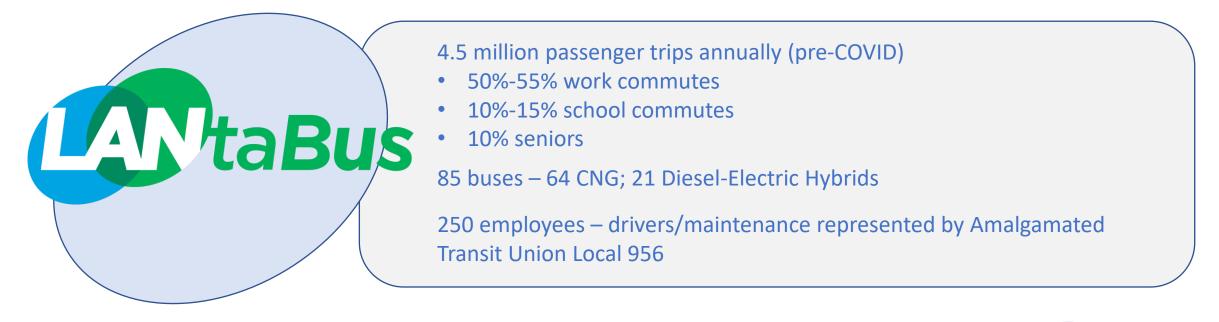








#### TRANSIT IN THE LEHIGH VALLEY



AltaVan

Consolidated/Coordinated paratransit program – Sr Shared Ride, ADA, PwD, MATP, and other programs

400,000-450,000 passenger trips annually (pre-COVID)

85 paratransit vans

# Funding

#### Capital Budget

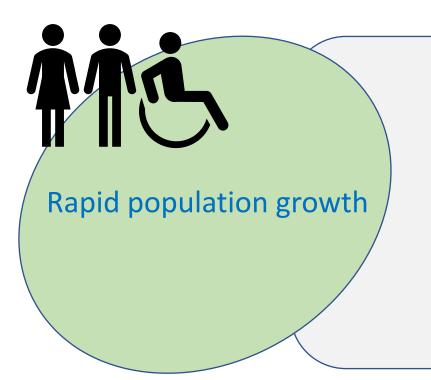
- Federal Federal Transit Administration (FTA)
- State PennDOT Bureau of Public Transportation (BPT)
- County
- Operating Budget
  - Passenger fares
  - State Operating Assistance (PennDOT) with County match
  - Federal grant funding for approved expenses
  - Other revenues



# Funding - LANtaVan

- Lottery/PwD Operating cost is reimbursed through shared ride fare charged to PennDOT
  - Lottery funds pay 85% of cost, rider pays 15% copay
  - County AAA's and MATP sponsor some copays
- MATP reimburses on a per trip rate
- Other arrangements
- System is funded on a reimbursement of costs structure





6,000 new residents each year

Close to 100,000 more residents by 2030

Youngest Baby Boomers turn 65 by 2030 when Lehigh Valley will have close to 150,000 seniors

Source – LVPC, FutureLV – The Regional Plan

"The Lehigh Valley is one of the fastest growing regions in Pennsylvania, with a projected 24% population increase by the year 2045" *FutureLV – The Regional Plan* 



"Access to public transportation causes access challenges as more development occurs in outlying areas away from the Lehigh Valley's population centers." LVEDC & WBLV Lehigh Valley Talent Supply and Industry Sector Analysis

Medical facilities are both employment and quality of life destinations

Business model of growth and decentralization expands mobility needs

Increased employment in sector

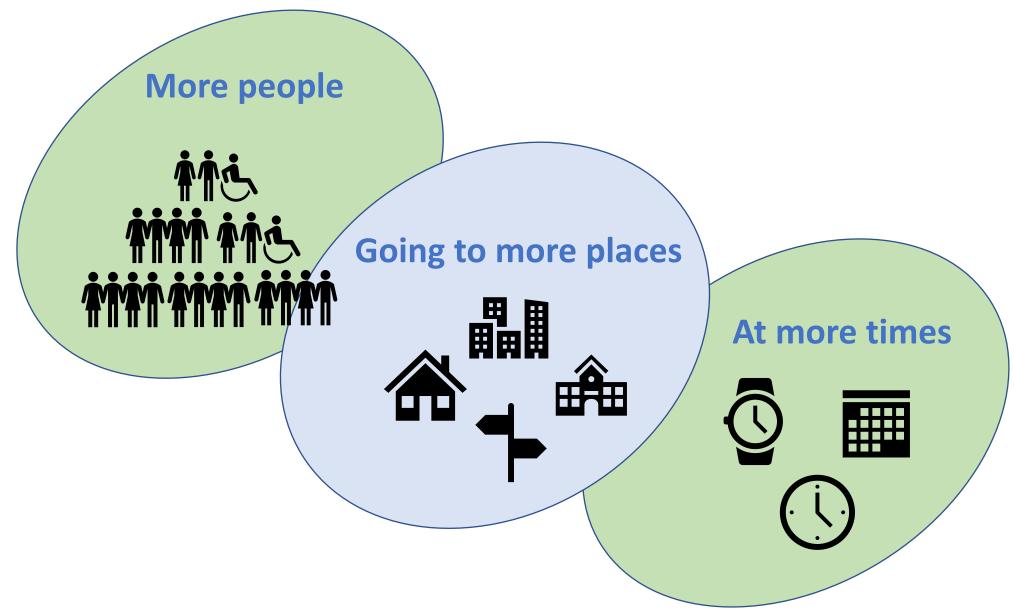
Two growing, nationally renowned hospital networks

Eco/Tourism emerging component of regional economic development

**Q** :::.**?** 

LVPC, LVEDC, Discover LV identify Eco/Tourism as key regional industry

Discover Lehigh Valley Strategic Plan notes "Easier public transportation within the area" as a factor to become better/world class visitor destination



#### TRANSIT LEVELS AND RESULTING UTILIZATION

#60 Allentown-Bethlehem-Easton, PA
#65 Springfield-Holyoke-Northampton, MA
#67 Albany-Schenectady-Troy, NY

Rank: Metro Areas by Population Natl Transit Database

**#36** Albany-Schenectady-Troy, NY (1.41)

**#95** Springfield-Holyoke-Northampton, MA (0.93)

Metros 40-80 Avg. (0.84)

#160 Allentown-Bethlehem-Easton, PA (0.62)

Rank: Metro Areas by Transit Service Hours per Capita

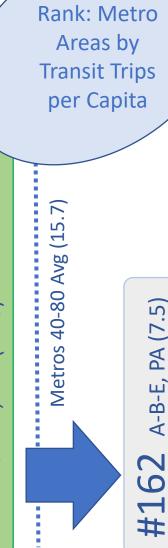
S-H-N, MA (17.8)  $\overline{}$ #

A-S-T, NY (27.5)

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#### QUALITY OF LIFE AND ECONOMIC IMPACTS OF LOW LEVEL OF TRANSIT SERVICE

66,000 LV residents living in areas with Low or Very Low Access to Opportunity

employee logistics

location

Source – LVPC Equity Analysis

Length of commute to jobs a key contributing factor Source – LV Med Provider

Cost to medical provider per missed appointment -\$145 Medical Appointment No-Show Rate

8%

\$21 Million Regional economic loss from lost 100

Source – LVEDC

Workforce availability fundamental to employer location decisions – Brookings *Talent Driver Economic Development*  Source – WBLV Local Plan

Lack of transportation and workplace accommodations often cited as primary impediments 100%+

Persons with Disabilities Unemployment Differential

#### FINANCIAL OUTLOOK

Current Operating Funding does not allow for system growth

LANTA continues to add service to address regional growth

COVID relief funding has bridged gap but are one-time allocations

Need enhanced levels of operating assistance in FY '25 to keep current levels of service / continue to grow the system

# FREQUENCY

Increase service frequencies throughout the system Reduce commute time between job centers and equity communities

Develop high frequency bus corridors (EBS)

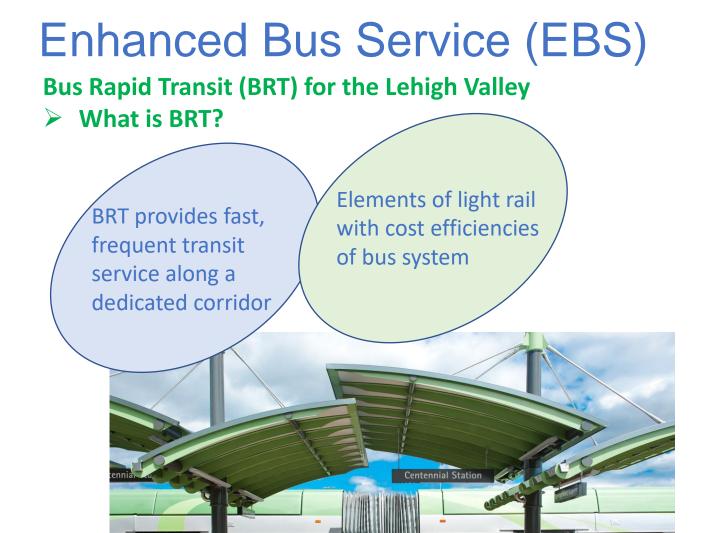
Improve connections to hospitals and medical facilities

Maintain service to legacy neighborhoods

Expand mobility options for seniors and persons with disabilities

Improve connections to key tourism and eco-tourism locations

Improve connections to schools, colleges, job training

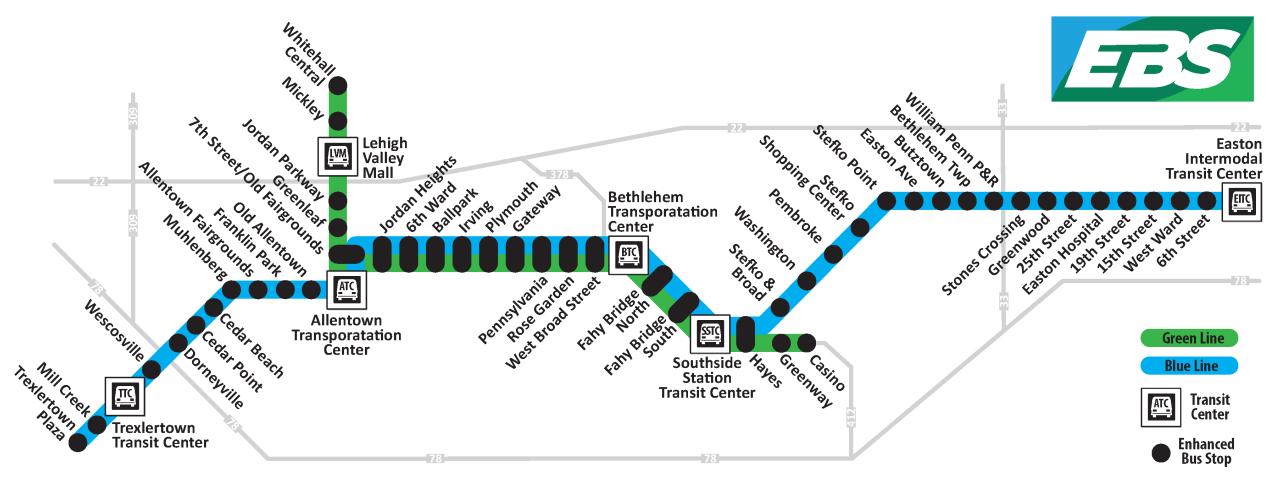




#### **Elements of EBS/BRT**

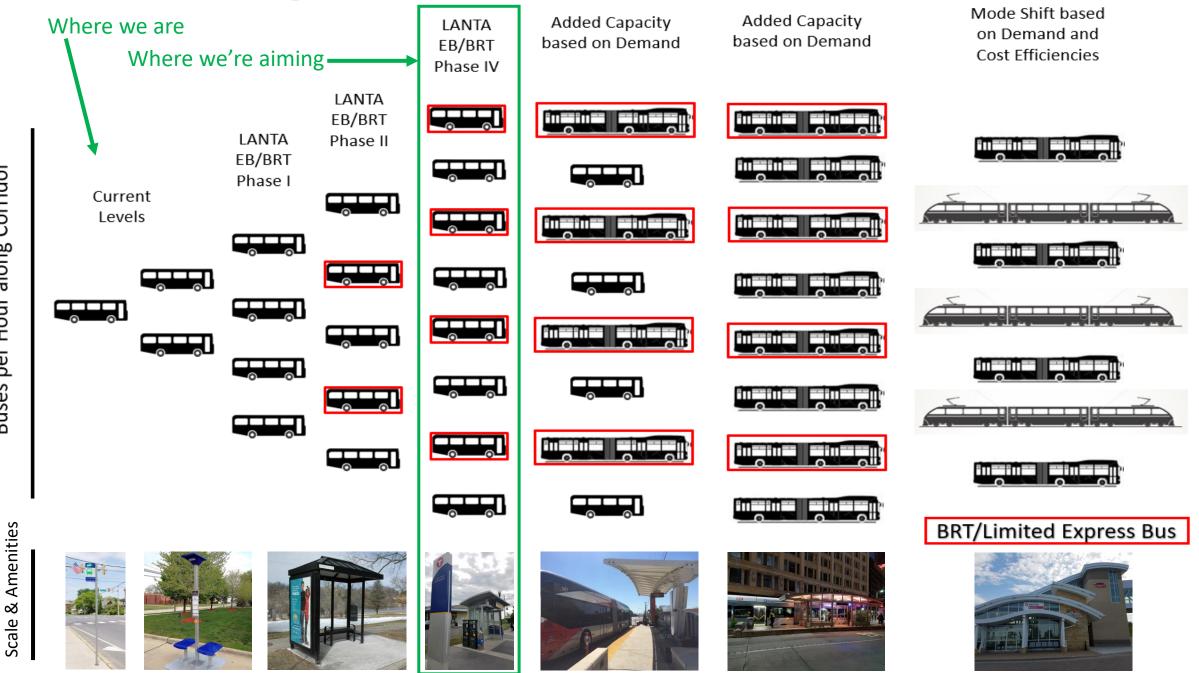
- Service improvements high frequency, express/limited stop alignments.
- Enhanced stations/stops shelters, seating, information signage.
- Roadway improvements designed to expedite bus movements.
- Fare technology improvements to expedite passenger boarding.

# Enhanced Bus Service (EBS)





#### **Transit Service Progression**



Stop/Station

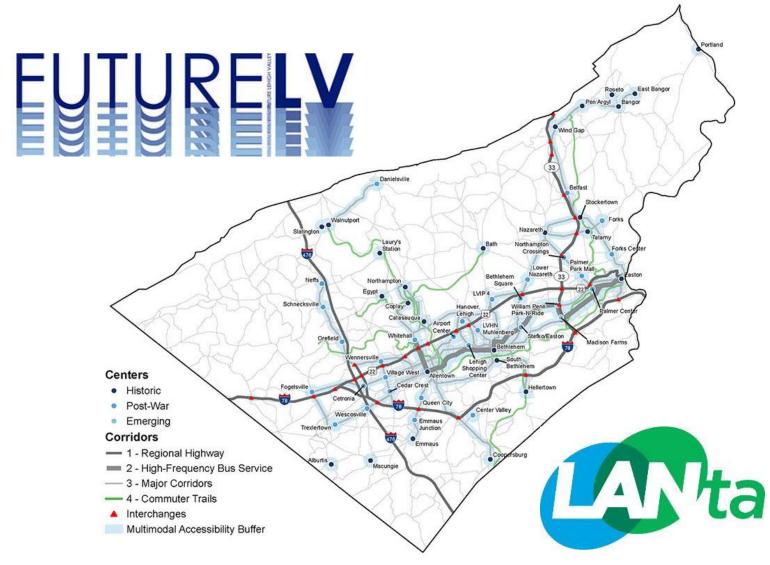
#### MacArthur Road Concept MacArthur Road, Whitehall Township

High-Frequency Bus Service, bike lanes and good sidewalks expand transportation options and move people around the region efficiently. This new infrastructure can be supported by planning for the decline of in-store shopping and repurposing developed land for new housing and mixed-use development. a transformation that is key to maintaining and growing the economy. Areas like MacArthur Road are good places to start because the concentration of people, jobs and large lots make them good candidates for new and expanded uses.

Encourage enhanced transit connections to

improve mobility and job access.

EBS and enhanced transit play an integral role in key regional plans, including FutureLV, LRTP, Eastern RMTC ROP, and various municipal plans.



· Enhance public transit service and pedestrian and bicycle facilities

along corridors.

2.3

- Link growing job and population centers.
- Strengthen mixed-transportation access to regional transit hubs.
- Improve connections between mass transit and pedestrian and bicycle infrastructure.
- · Support mass transit access to neighboring regions.

#### Themes



#### Implementation Partners

Lehigh Valley Planning Commission, Pennsylvania Department of Transportation, US Department of Transportation, Lehigh and Northampton Transportation Authority, Lehigh and Northampton Counties, 62 Municipalities, Workforce Board Lehigh Valley, Community Advocates

#### **Related Policies**



# **Questions?**







# **Upcoming Meetings**

### **Next WorkshopLV Environment/Transportation Meeting:**

• December 20<sup>th</sup> at 11AM (in-person) at the LVPC office





