

▶ **State Route 8**

Asset Management / Corridor Improvement Study

Irwin, Victory, and Sandycreek Townships

Public Meeting

Franklin High School

February 8, 2018



Michael Baker
INTERNATIONAL



Project Team

PennDOT

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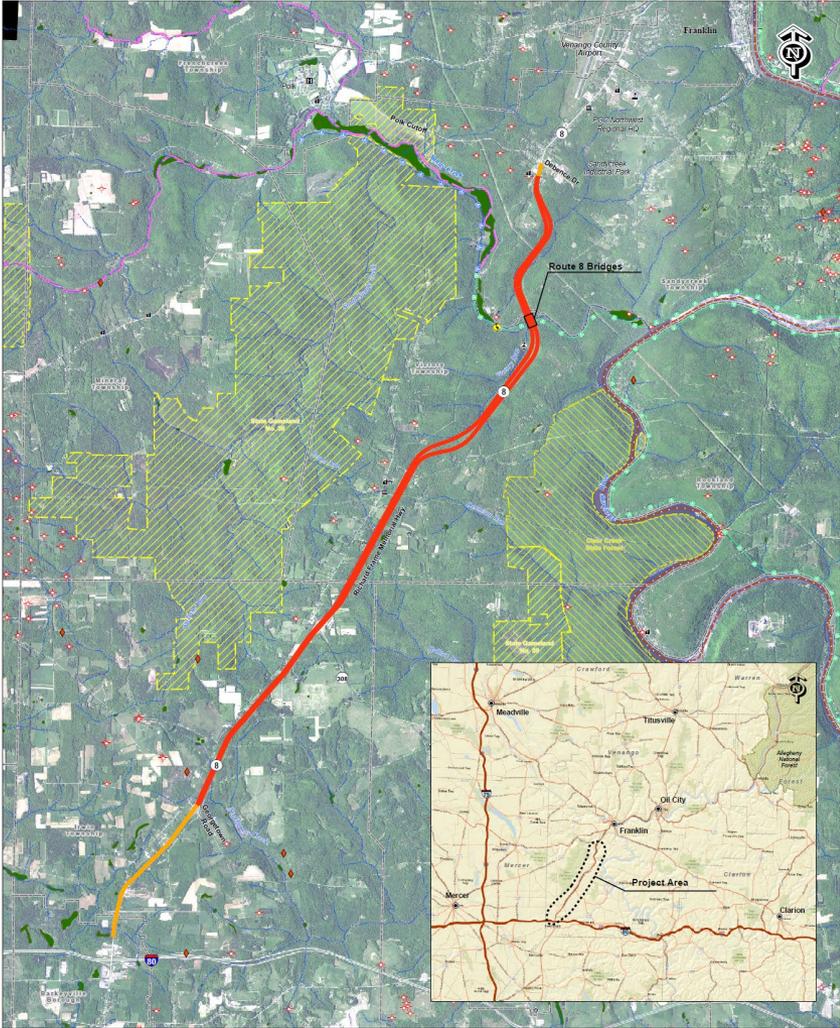
▶ Tonight's Agenda

- Purpose of the Study
- Existing Conditions
 - Traffic and Safety
 - Pavement
 - Bridges
- Project Development Process
- Input to Date
- Initial Study Concepts
- Future Steps
- ***Your Input / Feedback***

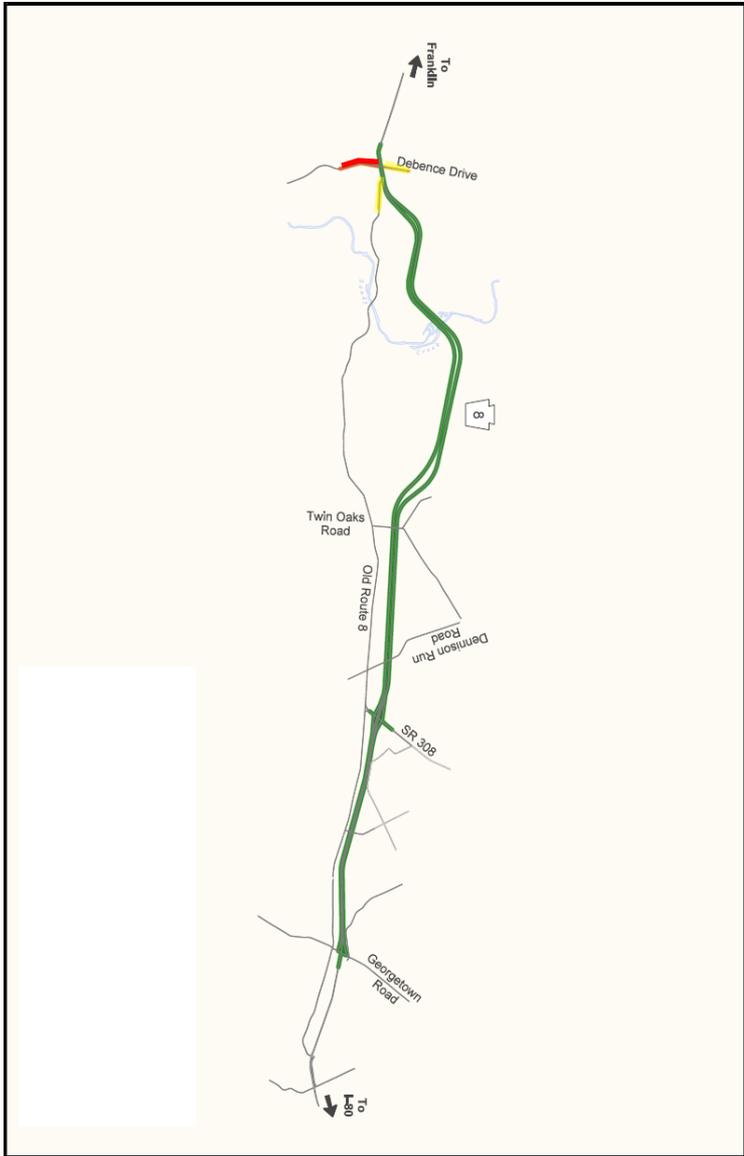
► Purpose of the Study

- **Due diligence** prior to making major investments
- Evaluate existing and future traffic operations
- Evaluate roadway and bridge conditions
- Identify related planning and economic development initiatives
- Determine future costs to maintain and repair the roadway
- Identify and evaluate options for changes/improvements to the roadway
- Determine possible **long-range strategies** for the corridor
- ***Involve stakeholders and the public***

Study Area



▶ Level of Service (Year 2020 to 2040)



LOS A/B
No Delays

LOS C/D
Minimal
Delays

LOS E/F
Significant
Delay

A	
B	
C	
D	
E	
F	

► Traffic Volume Comparison

Road	2017 ADT	2040 ADT	% Trucks	# of Lanes
SR 8	7,300	9,400	14	4
SR 257	10,000	10,700	6	3
US 322*	7,400	7,900	8	2+
SR 8**	4,500	4,800	10	2

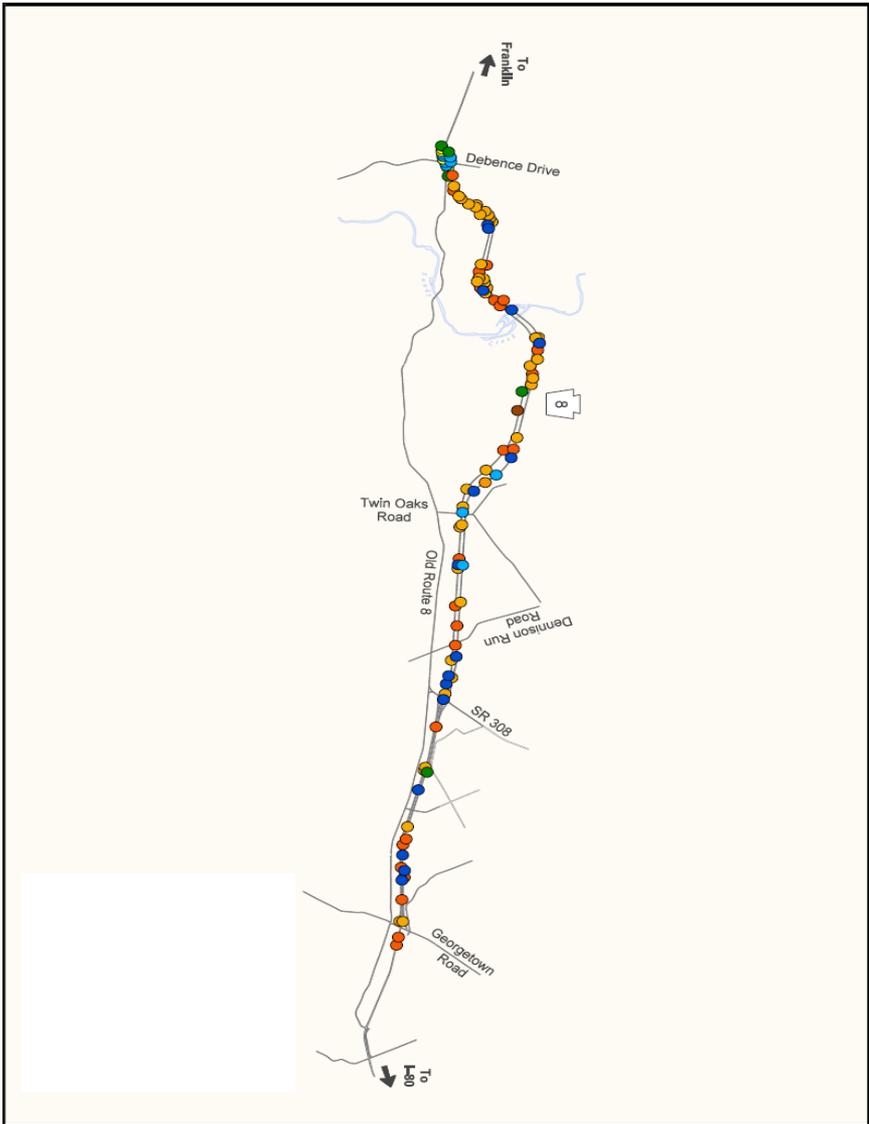
* Franklin to Cranberry

** Oil City to Titusville

+ Climbing Lane

	Level of Service Thresholds	
No. of Lanes	LOS A	LOS C
2	2,500	10,100
4	29,000	52,000

Existing Conditions - Safety



TYPE OF CRASH

- Unknown
- Angle
- Rear End
- Fixed Object
- Pedestrian
- Non-collision
- Head-on
- Side Swipe

Existing Conditions - Structures



No Short-term Maintenance Required

Short-term Maintenance Required

► Existing Conditions - Structures



**SR 8 NB / SB Over
T371 Dennison Run Road**

- Fair Condition – Deck, Piers, Abutments Cracked and Spalled
- Erosion on Embankments
- Rehab Needed for Preservation
- Rehab Cost = \$100,000

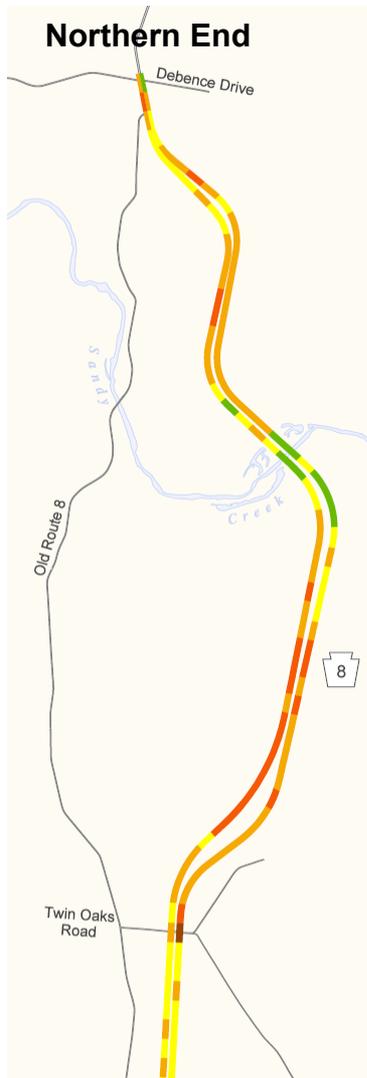
Existing Conditions - Structures



- Fair Condition – Joints Cracked and Leaking; Pier Caps Cracked; Abutments Washed Out; Deck is Patched
- Requires Rehab for Preservation
- Rehab cost = \$300,000

SR 8 NB / SB Over T370
Fisherman's Cove Rd and Sandy Creek

Existing Conditions - Pavement



-----Match Line-----



Southern End

Condition	Failed Patches	} Need to Replace
Good	0% – 2%	
Fair	2% – 5%	
Poor	5% – 10%	
Very Poor	10% – 20%	
Serious	>20%	

More than 90% of the pavement is in need of replacement

▶ Future Costs to Maintain Existing Roadway

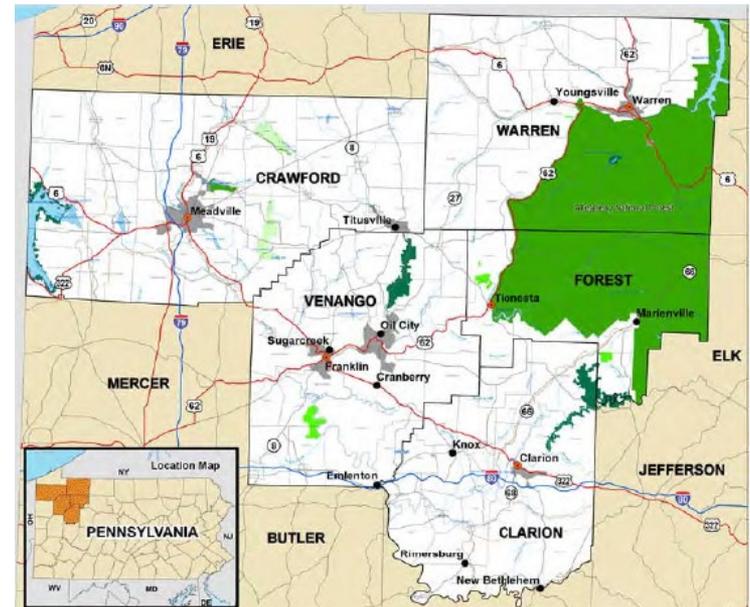
- Annual Maintenance Cost
 - Summer Maintenance \$130,000
 - Winter Maintenance \$230,000
 - Total \$360,000

- Approximate Future Reconstruction Cost
 - Pavement \$15 to \$19 million
 - Bridges \$1 to \$2 million
 - Other items
(drainage, signing, traffic control) \$5 to \$6 million
 - Contingencies \$6 to \$8 million
 - Engineering \$5 to \$7 million
 - **Total** **\$32 to \$42 million**

▶ Project Development Process

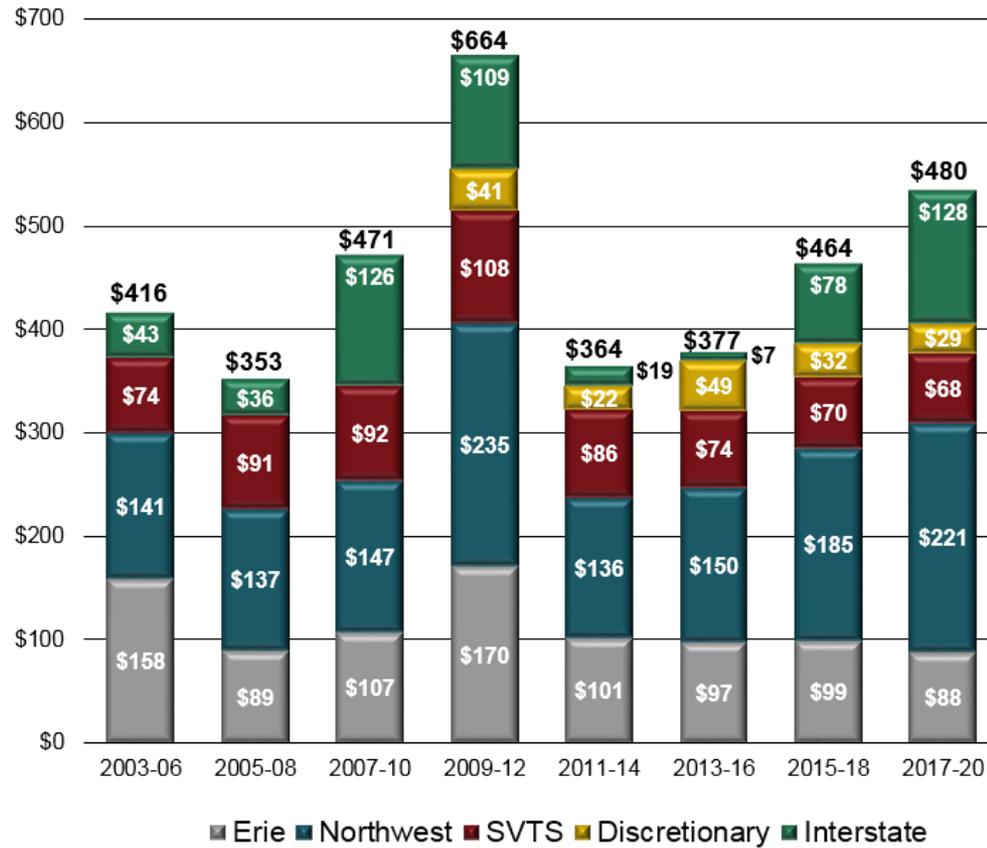
Northwest Commission – Rural Planning Organization

- Member Counties – Clarion, Crawford, Forest, Venango and Warren. PennDOT is a voting member.
- Approves and prioritizes all federally-funded projects within the region
- Develops Transportation Improvement Plan (TIP) from which all projects are programmed and funded. It is updated every two years
- SR 8 reconstruction is currently funded for approximately \$41.75 million on the TIP; this study will provide basis and guideline for updating
- Money spent on one project leaves less available for other projects



Project Development Process

District 1 TIP Funding (in millions)



➤ Stakeholder Input to Date

- 150 individuals / businesses heard from to date
- Phone interviews and meetings with:
 - Local Officials
 - County Planning Staff
 - Local Businesses
 - Chamber of Commerce (also conducted survey)
 - Economic Development Agencies

▶ Stakeholder Input to Date

- **What We've Heard about Today's Economy:**
 - SR 8 is vital
 - Local industries heavily use I-80
 - Franklin, Oil City, Titusville areas compete with other areas along I-80 for development
 - High speed access to I-80 is a critical marketing tool
 - Many employees come from Barkeyville, Grove City, points south

▶ Stakeholder Input to Date

- **What We've Heard about the Future Economy:**

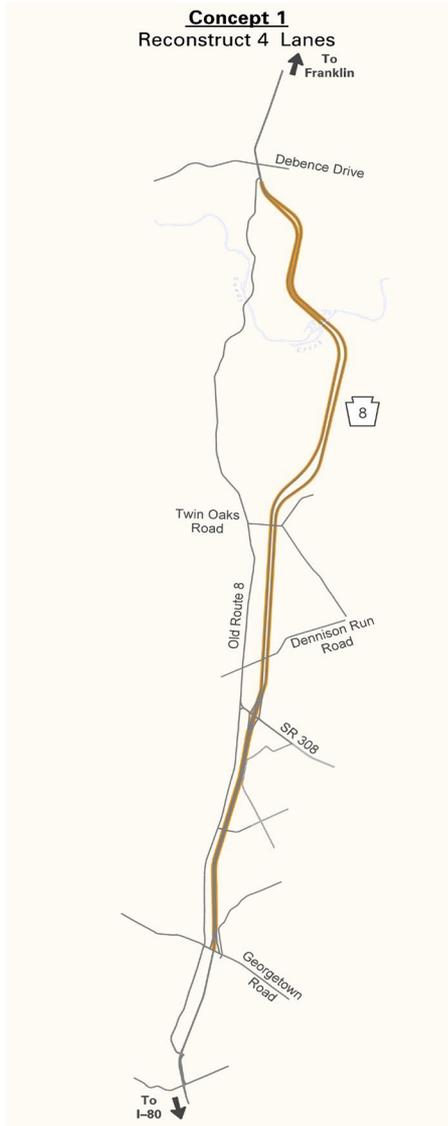
- **Economic Growth Potential**

- Northwest PA is poised for industrial growth
 - Marcellus Shale
 - Shell Cracker Plant is opportunity for plastics industry and related industries
 - Venango Regional Airport has growth plans – Cargo and Business Park
 - Other Business Parks are developing
 - Tourism is growing – French Creek, Bike Trails, Allegheny River
 - Barkeyville has designated growth area

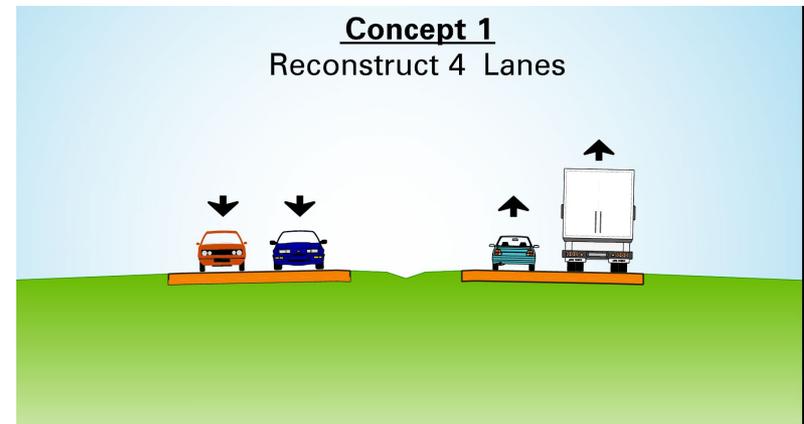
▶ Stakeholder Input to Date

- **What We've Heard about the Road:**
 - Safety Concerns
 - Difficult winter conditions and terrain
 - Trucks
 - SR 8 is used by school buses
 - Incidents
 - SR 8 is used as an I-80 alternate route
 - Old Rt. 8 is inadequate for trucks or detoured traffic
 - Convenience
 - Existing high speed access contributes to quality of life

▶ Concept 1 – Reconstruct 4 Lanes



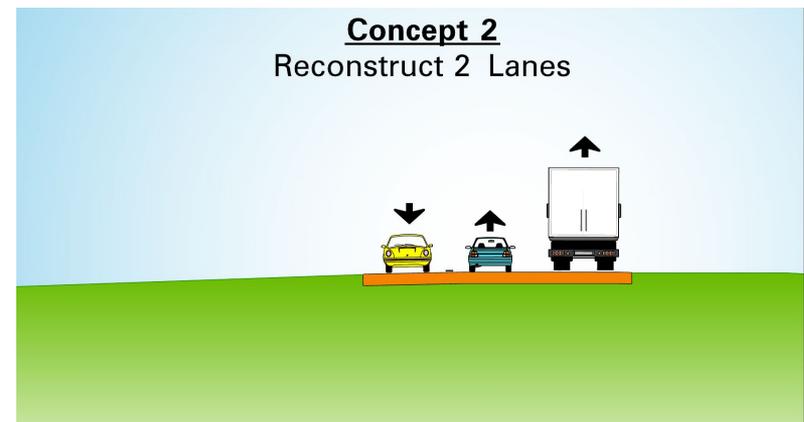
- Maintains current configuration
- High level of traffic service
- \$32 to \$42 million cost



➤ Concept 2 – Reconstruct 2 Lanes



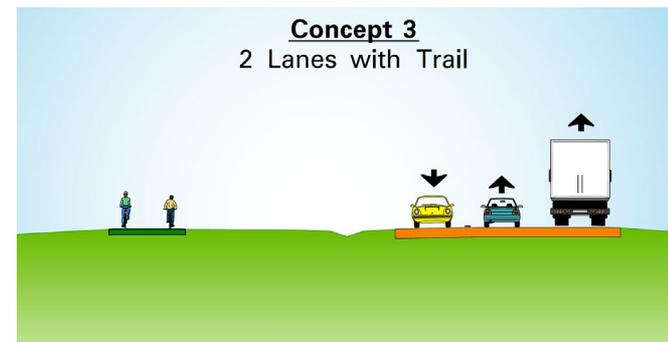
- Reduces future reconstruction and maintenance costs
- Future level of service still acceptable (LOS C)
- Would include truck climbing lanes
- Possible cost = \$31 to \$39 Million



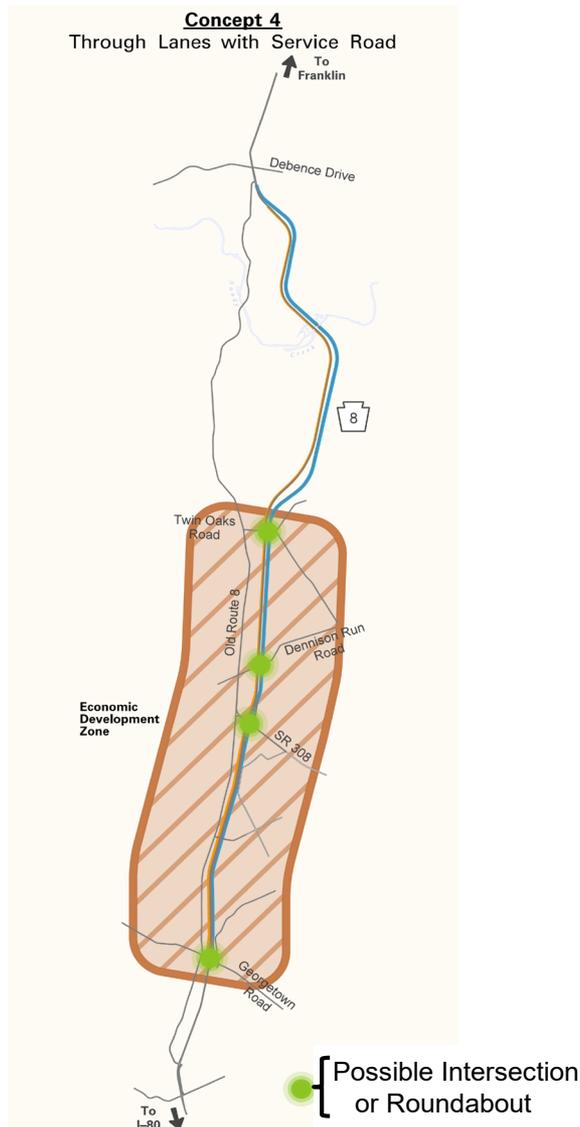
▶ Concept 3 - 2 Lanes With Trail



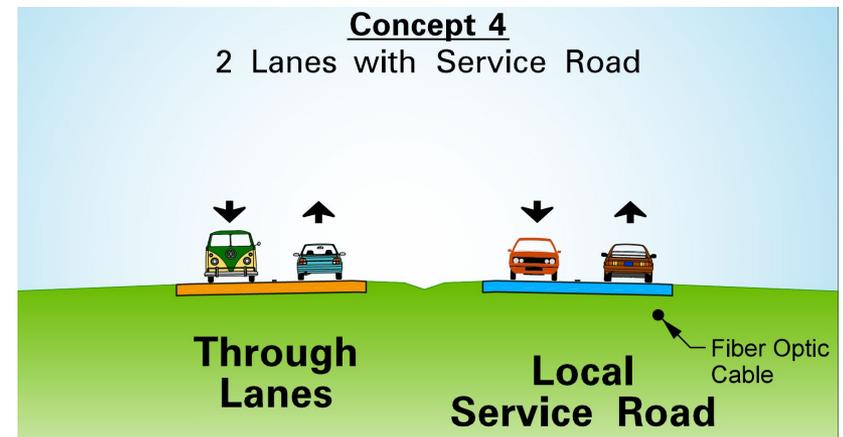
- Reduces future maintenance costs
- Future level of service still acceptable (LOS C)
- Would include truck climbing lanes
- Improves bicycle and pedestrian safety and mobility in the corridor
- Local matching funds required for trail
- Possible cost \$33 to \$42 Million



➤ Concept 4 – 2 Lanes With Service Road



- Increased reconstruction cost, \$34 to \$42 Million
- Reduced access control could increase congestion
- Facilitates development along SR 8 near I-80



▶ Next Steps



▶ Future Vision of SR 8 Corridor?

Retail Markets

Tourism

Automated Vehicles

Fiber Optic

E-commerce

Cracker Plant

Spin-off Industries



➤ Project Input / Feedback

- Q and A tonight
- Display boards are exhibited in the lobby
- Comment forms (located on sign-in table) may be filled out this evening or mailed / emailed at a later date

Thoughts?
Questions?