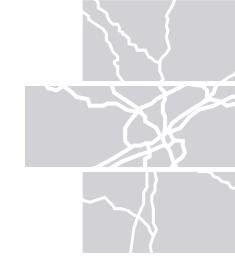
Item 7 West Knoxville Corridor (I-40/75) Study Presentation



PRESENTER: DEXTER JUSTIS, DIRECTOR, TDOT REGION 1 PROJECT MANAGEMENT AND BRAD THOMPSON, VICE PRESIDENT, STV, INC.

NO ACTION REQUIRED



N TDOT Department of Transportation

Knoxville Interstate 40 (I-40) Corridor Priority Investment Project

Knoxville Regional TPO Update

February 11, 2025

edE

Study: Challenges/Keys to Success

Develop concepts for congestion relief and safety improvements
 Analyze influence of truck volumes and weigh station traffic

- Enhance partnerships with stakeholders
 - Knoxville TPO
 - Cities and Counties
 - Railroads (NS)
 - Utilities (KUB, FUD, LCUB, WKUD, AT&T, TVA, etc.)
- Assess potential environmental impacts for concepts
- Understand public perception & priorities



I-40 at Campbell Station Road





I-40 at Cedar Bluff Road









I-40 at Walker Springs Road





I-40 at Papermill Road







Knoxville I-40 Priority Investment (PD&E) Project Timeline through January

April 2024

- 3-year plan released identifying the project
- 4/5 media event held at I-40 west bound weigh station announcing the project

▶ June 2024

- 6/3 Advertise for consultant
- 6/17 Pre-Proposal Meeting with potential firms

► July 2024

- 7/9 Proposals received
- 7/15 Team Interviews
- 7/31 Consultant Selection Committee
- August 2024
 - 8/12 Selected Consultant Notification

September 2024

- 9/13 Kickoff/Alignment Meeting
- Week of 9/23 STV team held internal field visit to develop corridor understanding
- October 2024
 - 10/21 Draft Scoping Document
- November 2024
 - 11/7 Final Scoping Document and Start of Fee negotiations
- January 2025
 - 1/7 Agreement on Fee for early work package





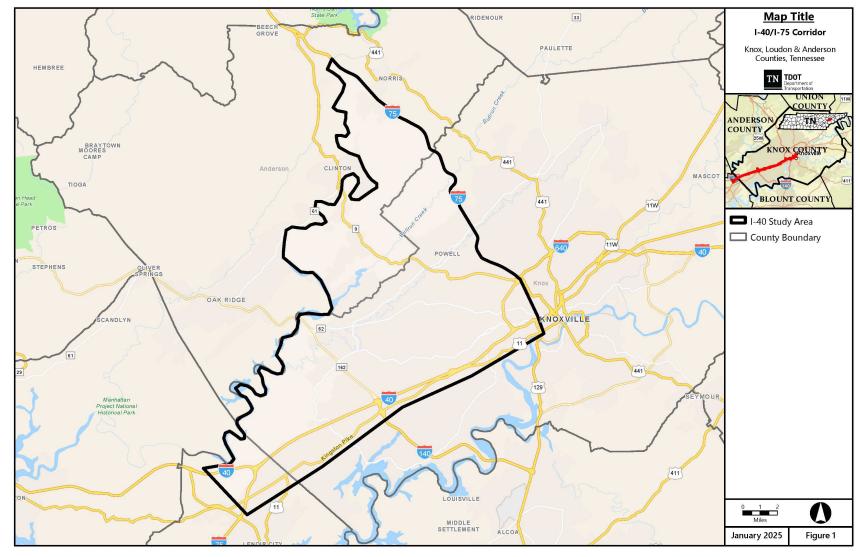
Project Team

- HNTB Project Management Support for TDOT
- STV Project Lead Consultant and Design
- Stantec Traffic and Environmental
- CDM Smith Traffic and Design for I-75 Relocated
- Cannon & Cannon Utility Coordination
- Robert G. Campbell & Associates Survey
- Parsons Cost Estimating





Initial Study Area







Knoxville I-40 Priority Investment Project Phase 1 Objectives

- Review of existing and previous plans for the corridor
- Survey inventory of assets and conditions
- Identification of right-of-way and utilities along the corridor
- Assessment of existing and future corridor traffic and regional traffic patterns
- Evaluate safety issues along the corridor
- Identification and evaluation of needs and solutions

- Development of design options
- Environmental screening of design options (PEL)
- Constructability assessment
- Estimated project costs for each design recommendation
- Recommendations on funding, financing, and construction delivery options
- Public involvement and stakeholder coordination





Environmental Data Collection

GIS Mapping

- Central data and mapping
- Includes data from multiple sources and agencies:
 - Socioeconomic
 - Natural environment
 - Public lands
 - Transportation Infrastructure
 - Utilities (in progress)
 - KGIS
- Desktop survey of environmental features
- Purpose and Need Statement







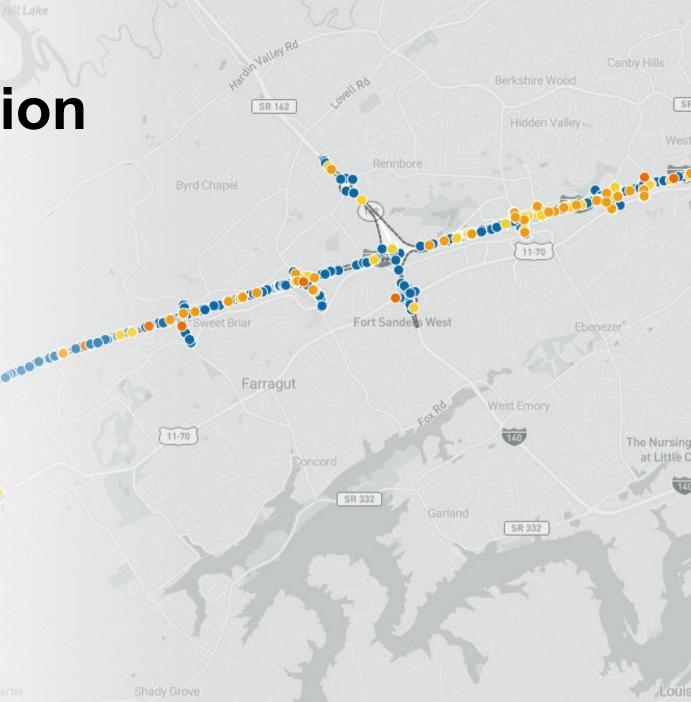
Traffic Data Collection

- Safety/Crash Data
- Freight/Truck Data
- Origin and Destination

TDOT Department of Transportation

Traffic Counts

- 181 total locations
 - 8-day Counts
 - 48-hour Bidirectional and Ramp Counts
 - 48-hour Turning Movement Counts



Bottleneck Areas of Concern

Top 20 Rankings Region 1

- Top 11 within project
- 14 total within project
- Top 3 traveling WB

Top 20 Rankings Statewide

• 3 within project





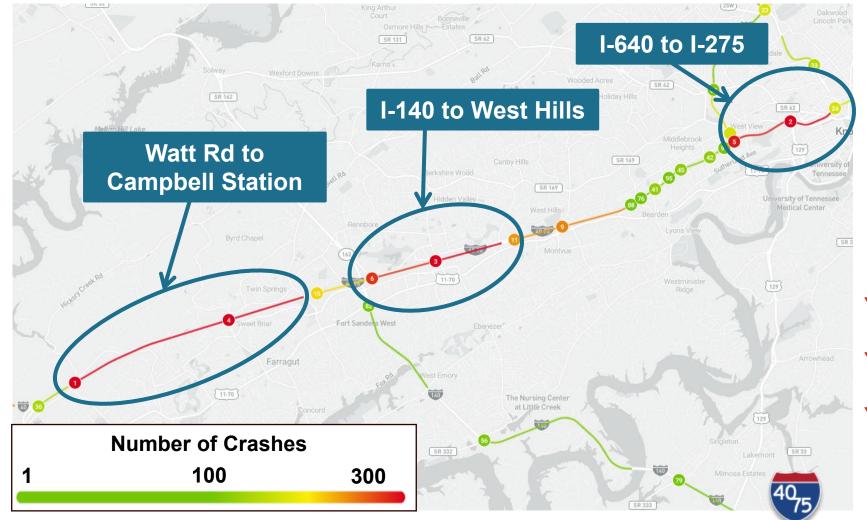
Safety Areas of Concern

- Crash Hotspots
 - Region 1
 - 9 of Top 20 within project limits
 - Top 6 within project limits
 - Statewide

ΓΠΠΤ

Department of Transportation

- Ranked 5th: Watt Rd (Exit 369) to Campbell Station Rd (Exit 374)
- Incidents in corridor contribute to 41% of congestion



Solutions for Consideration

- Capacity Additions to Existing Corridor
- Interchange Optimization/Redesign

► ITS

- Truck Only Lanes
- Weigh Station Solutions
- I-75 Alternative







Initial Design Concepts Include:

I-40/I-75 Mainline

- General purpose lane addition
- C/D road
- Choice Lanes

► I-75 Alternative Alignment

• Separation of I-40 and I-75

Weigh Stations

Potential relocation



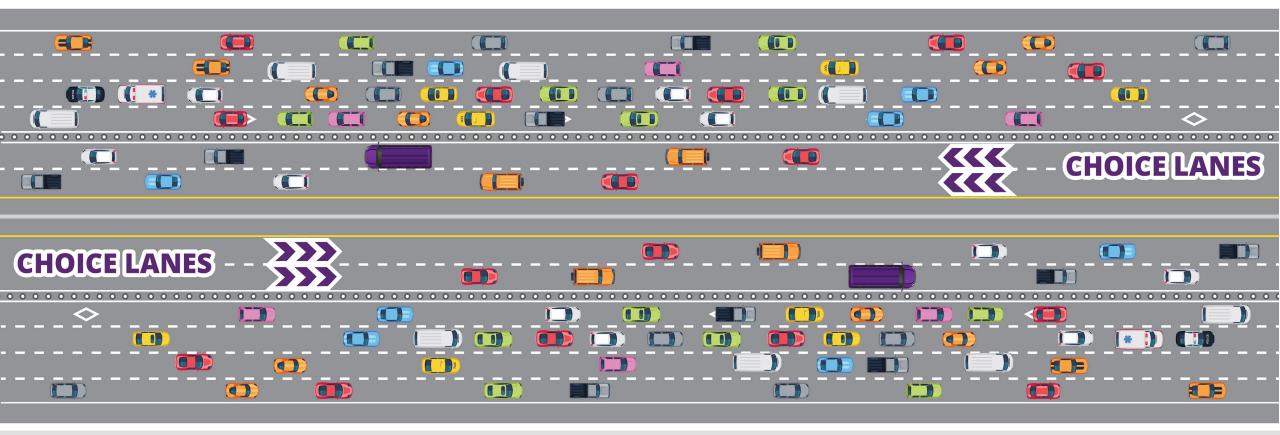




What Are Choice Lanes?

New, additional lanes

Priced managed lanes that provide users with more reliable trip times in exchange for a user fee. Designed, built, financed, operated and maintained by a private sector partner





Note: Illustrative representation only

Choice Lanes in Other States



Choice Lanes in Florida



Choice Lanes in Virginia



2025 Key Milestones for Phase I: Planning and Environmental Linkages (PEL) Study

2024		Q1 2025			Q2 2025			Q3 2025			Q4 2025		
Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
→ Data Collection	 Data Collection Visioning Workshop 	 Public Involvement Plan Development 	 Traffic Data Collection Report 10-Year Plan Input Purpose 	 > PEL Baseline Conditions > Online Survey 	> Initial Mainline and I-75 Alternatives Development	> PEL Alternatives Screening Methodology	 Weigh Station Alternatives 	> Interchange Alternatives > Evalua	 Submit Survey for TDOT Review The design 	 Finalize Alternatives and Develop Cost Estimates 	 Alternatives Development Tech Memo Public Meeting 2 	 Project Prioritization and Phasing Plan 	 Draft PEL Report for TDOT Review
				Need Statement		Meeting 1		Alternatives					



