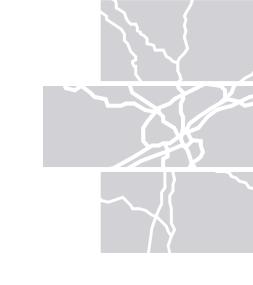
Item 5

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



NO ACTION REQUIRED







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





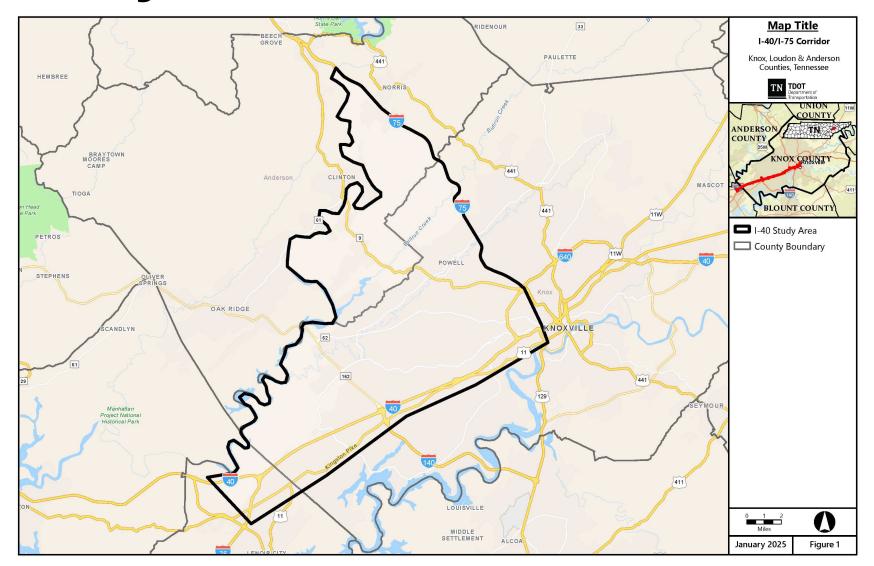
Project Team

- ► 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

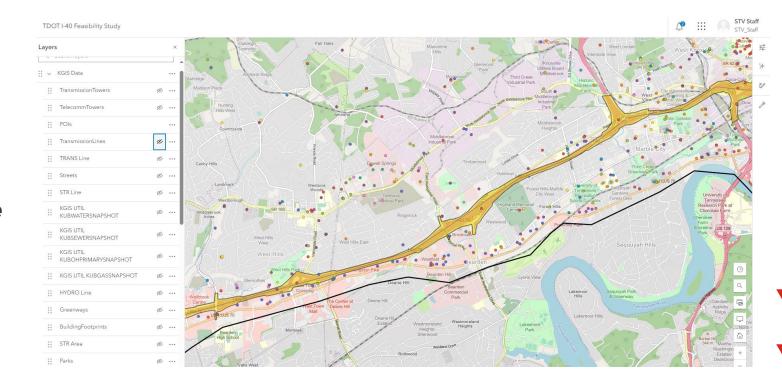
- Development of design options
- Environmental screening of design options (PEL)
- Constructability assessment
- Estimated project costs for each design recommendation
- Recommendations on funding, financing, and construction delivery options
- Public involvement and stakeholder coordination





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

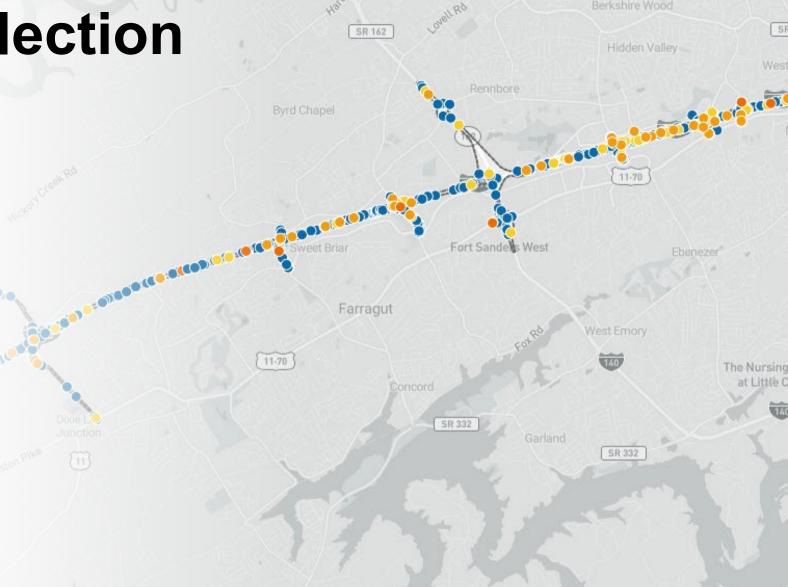






Traffic Data Collection

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



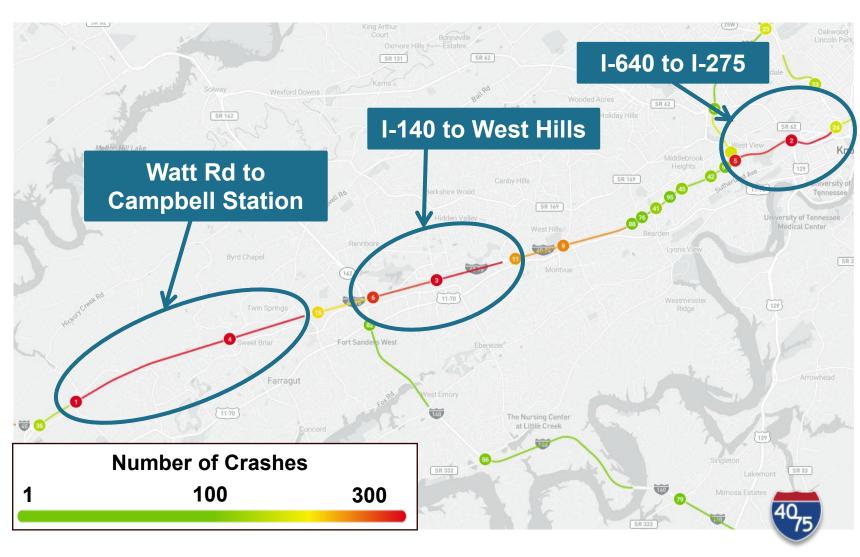




Safety Areas of Concern

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







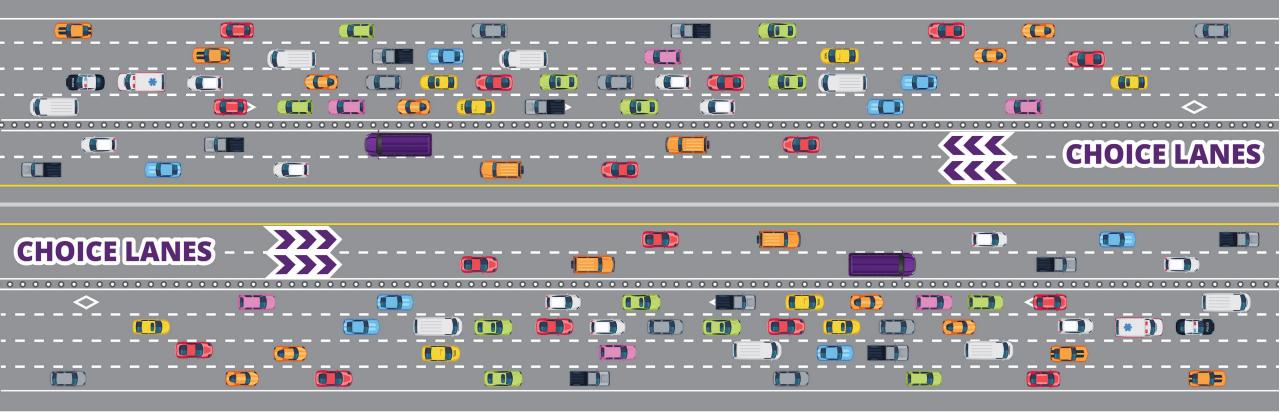


What Are Choice Lanes?

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







Choice Lanes in Other States











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

Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Data Collection Collection Visioning Workshop Workshop Development Plan Development Development Plan Input Development Plan Input Novement Plan Development Plan Development Plan Development Plan Development Development Plan Input Novement Plan Development Plan Input Novement P	2024		Q1 2025			Q2 2025			Q3 2025			Q4 2025		
Collection Collection Involvement Collection Plan Report Development Yosioning Yosioning Yosioning Development Yosioning Y	Nov	Dec	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
> Purpose and > Public > Evaluate Design		Collection > Visioning	Involvement Plan	Collection Report > 10-Year Plan Input	Conditions > Online Survey	Mainline and I-75 Alternatives Development	Alternatives Screening Methodology	•	Alternatives	Survey for TDOT Review	Alternatives and Develop Cost	Development Tech Memo > Public	> Project Prioritization and Phasing Plan	> Draft PEL Report for TDOT Review



