



**TDOT**

Department of  
Transportation

# I-40/81 Multimodal Corridor Study

## Round 2 Virtual Public Meetings

December 2, 2020



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# TODAY'S AGENDA



CORRIDOR STUDY

- Study Purpose
- Types of Needs Identified on I-40 and I-81
- Recommended Solutions
- Discussion / Questions

# STUDY PURPOSE



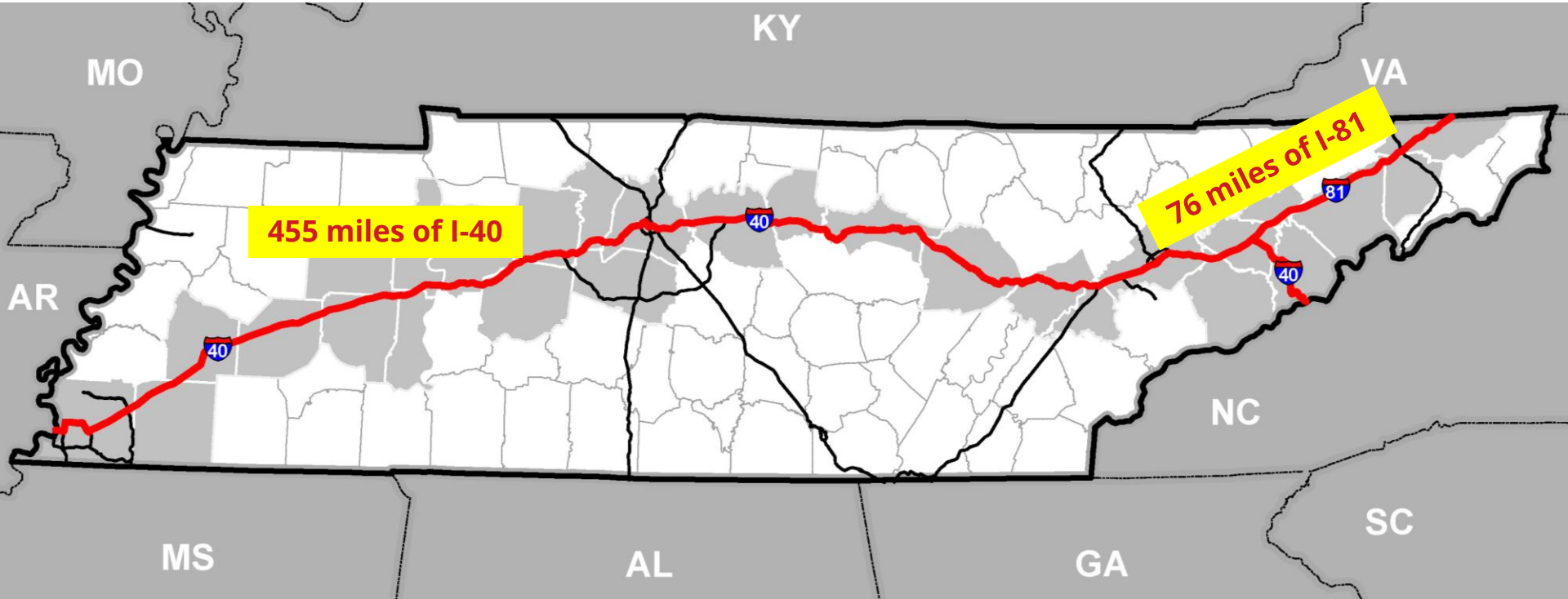
## WHAT THIS STUDY IS:

- ✓ A 20-year, phased set of recommended transportation improvements for the I-40 and I-81 corridors

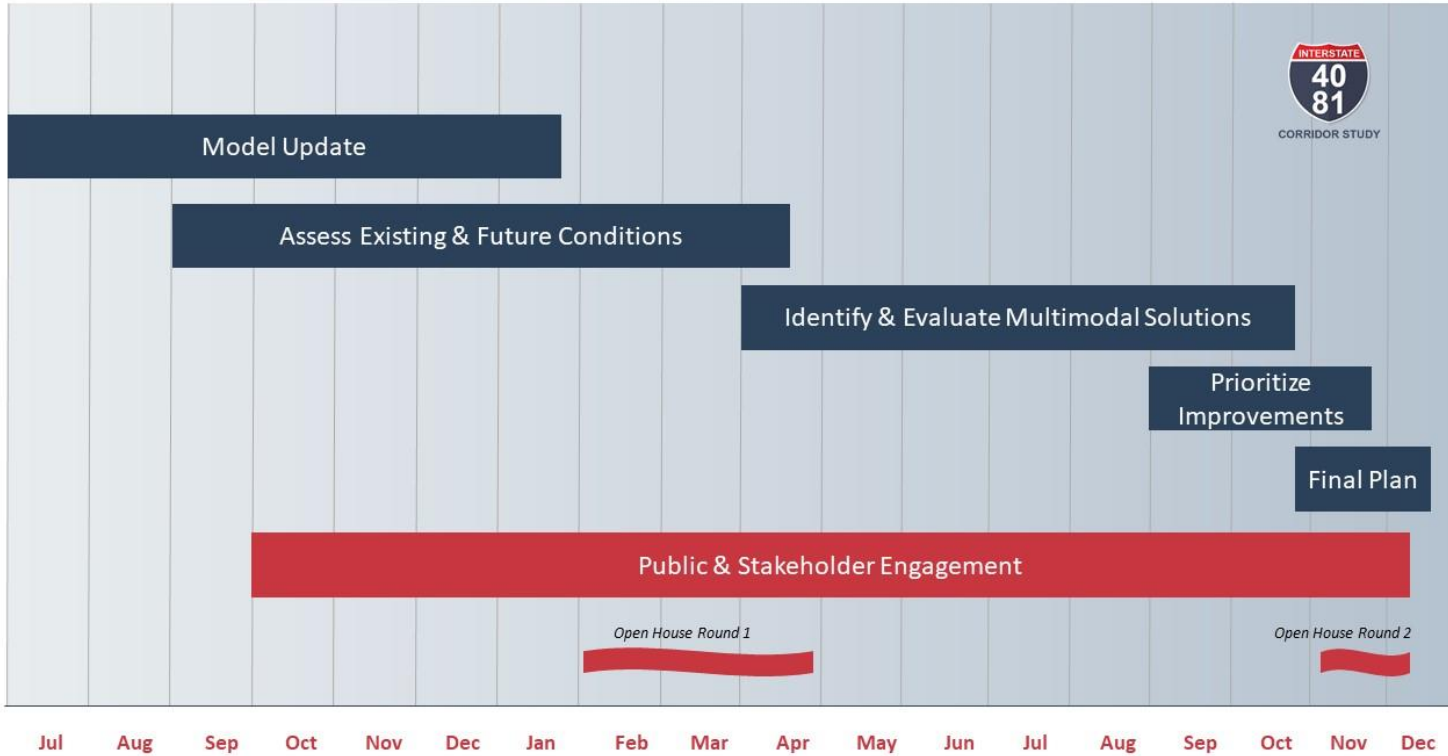
## PURPOSE:

- ✓ Guidance for decision-makers regarding future projects
- ✓ Promote coordination with stakeholders on the future of this corridor

# CORRIDOR STUDY AREA



# STUDY TIMELINE



# RECOMMENDED SOLUTION TYPES



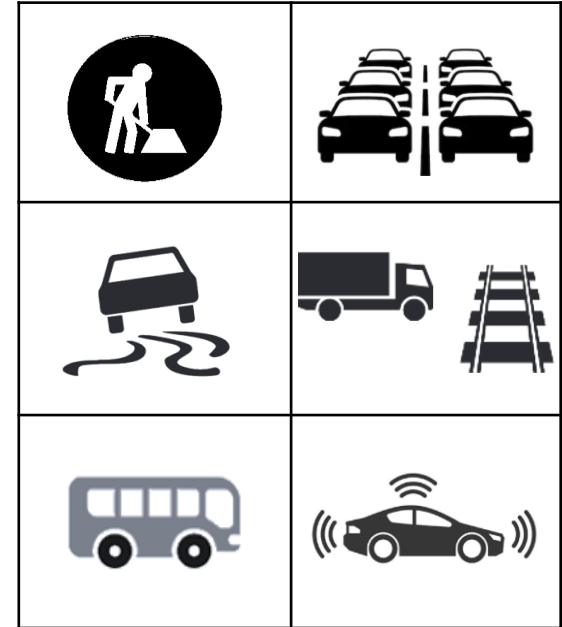
Highway Expansion

Safety

Transportation Systems Management & Operations

Freight

Transit



# I-40/81 PROJECTS IN THE IMPROVE ACT

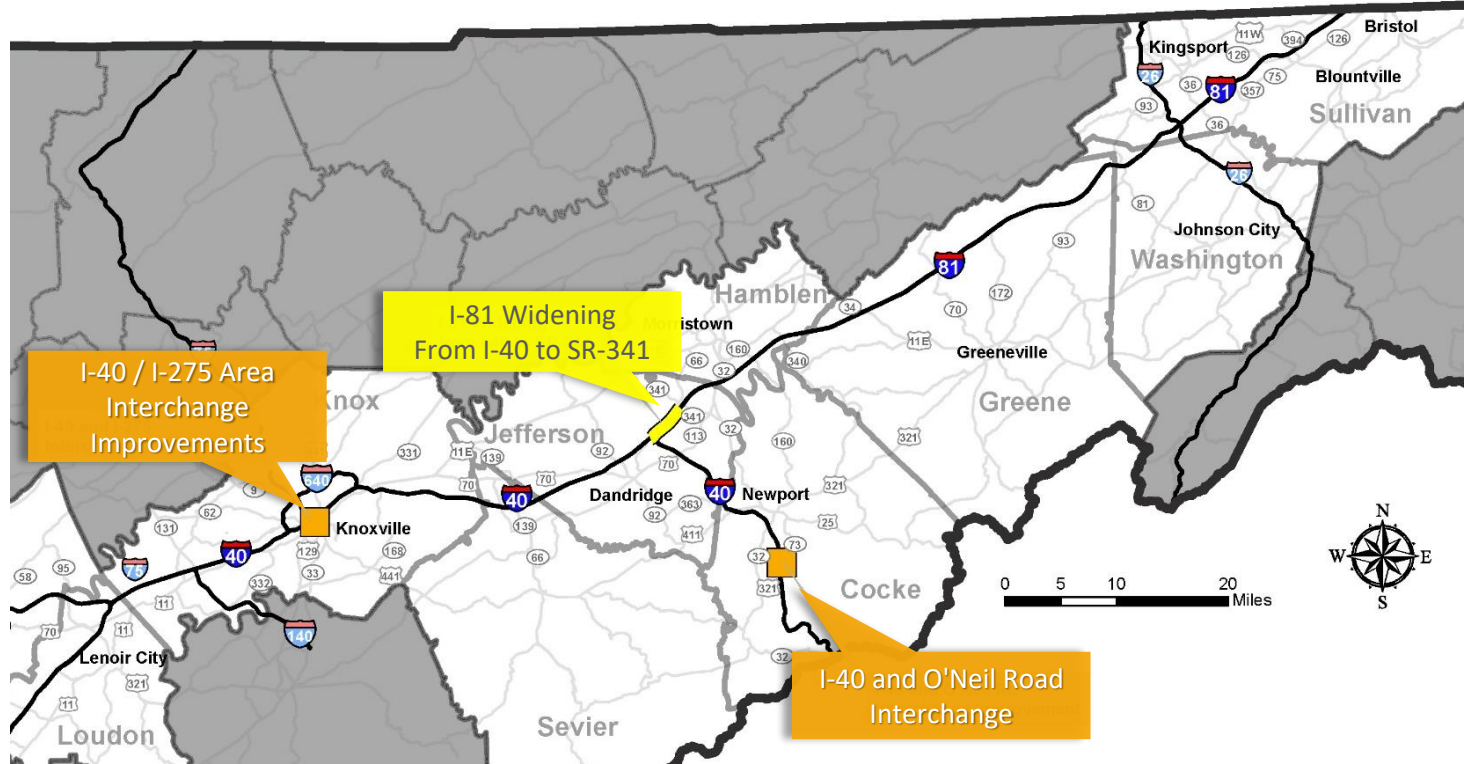


## I-40:

- *Downtown Knoxville*
- *Cocke County*

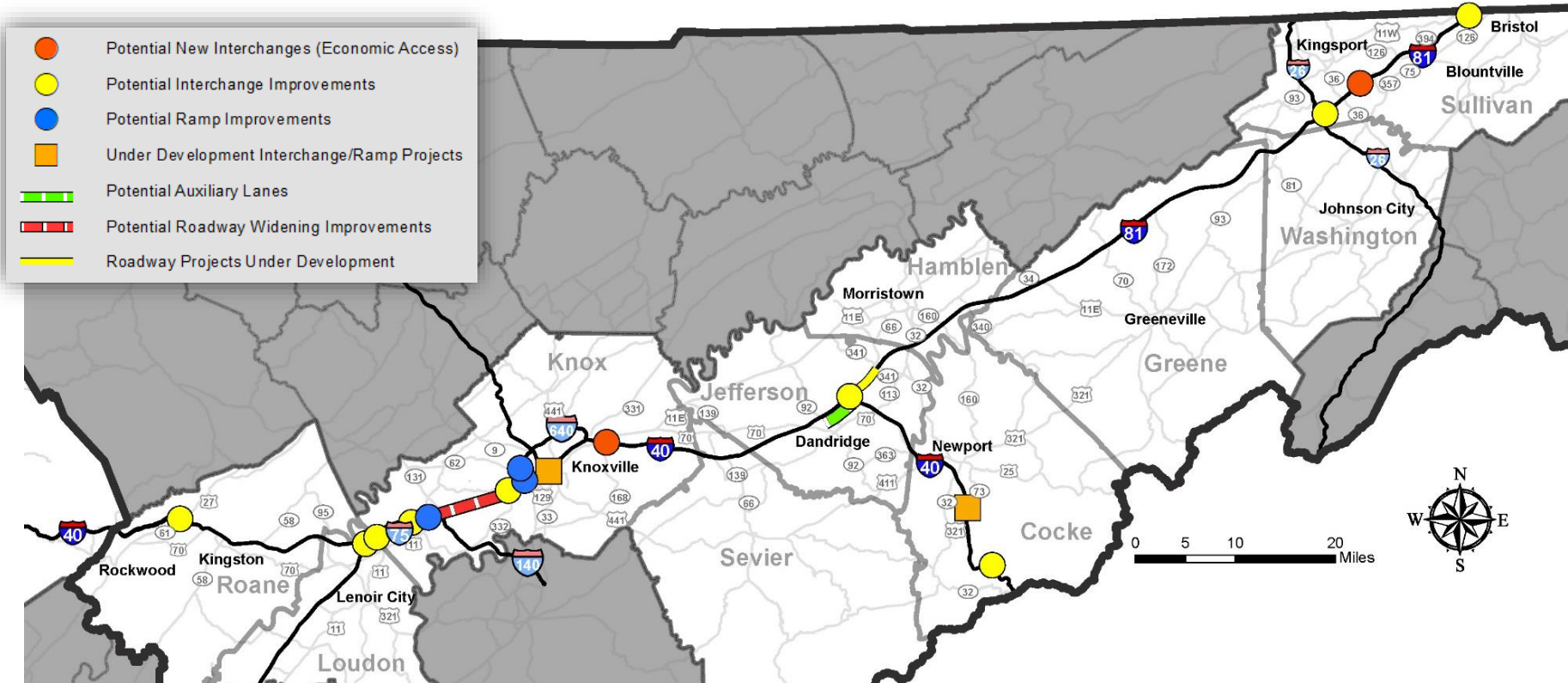
## I-81:

- *Exits 1 to 4 in Jefferson County*





# RECOMMENDED HIGHWAY IMPROVEMENTS

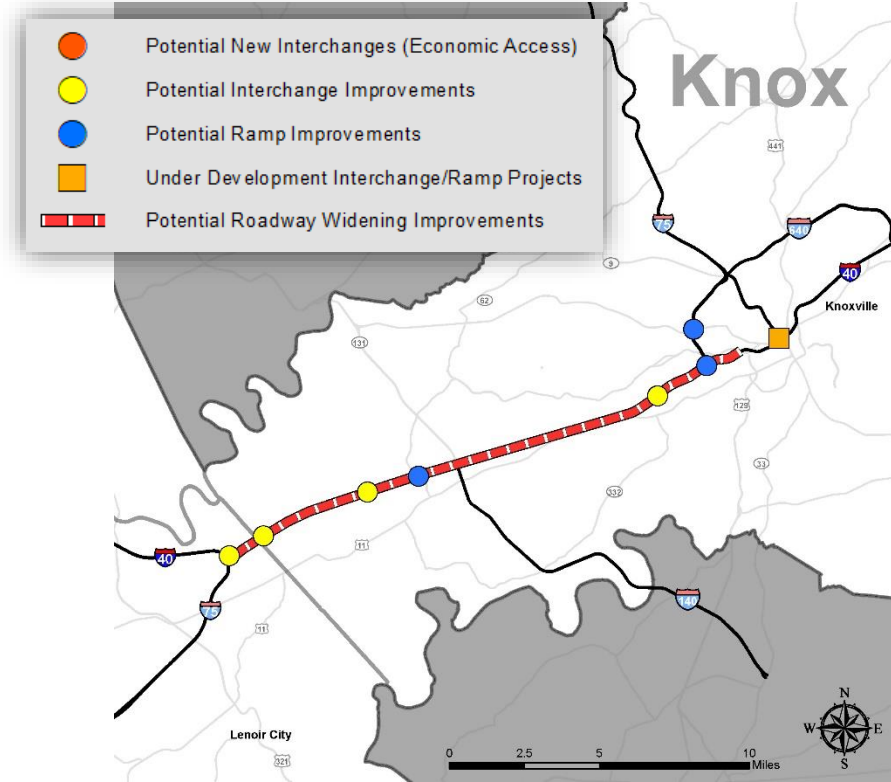


# RECOMMENDED HIGHWAY IMPROVEMENTS

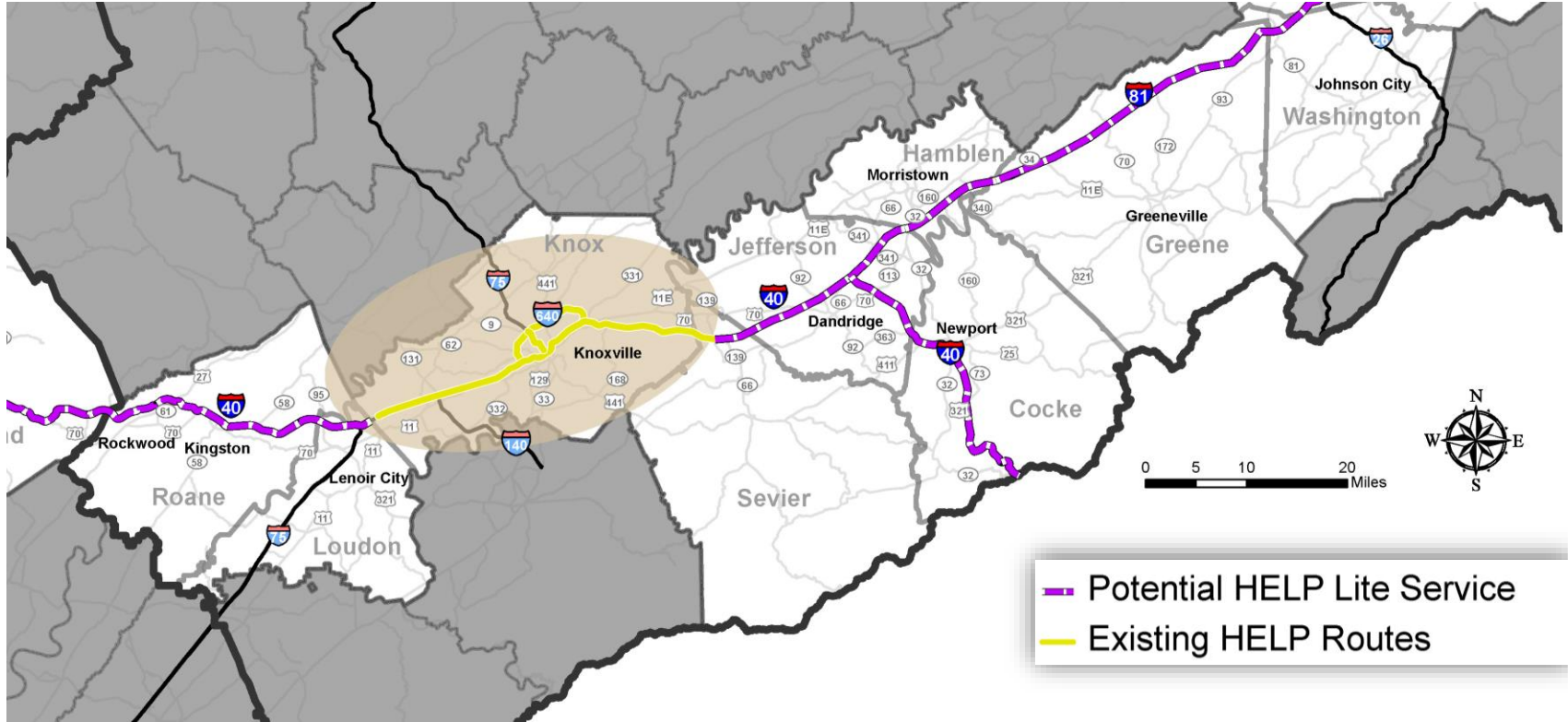


## I-40, Knoxville area

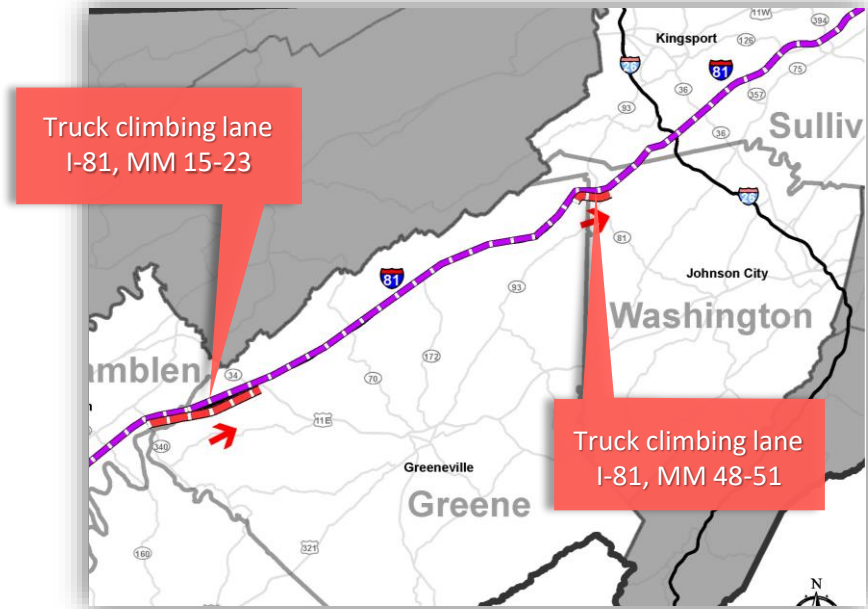
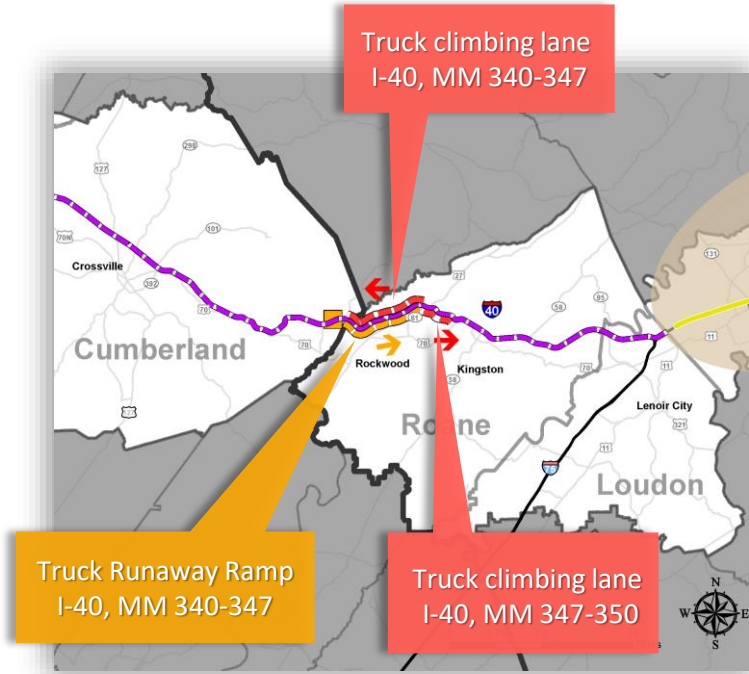
- Interchange upgrades at Exit 369 and 373 (Watt Rd, Campbell Station Rd)
- Widen from I-75 junction to Exit 374 (Lovell Rd)
- Widen from Exit 374 to Exit 385 (I-640)
- Extend westbound lanes from Alcoa Hwy. entrance ramp so that one lane exits to I-640, one lane continues through on I-40
- Separate eastbound traffic between Exits 383 (Papermill) and 385 (I-640)
- Improve eastbound off-ramps at Exit 374 (Lovell Rd), Exit 385 (I-640)
- Improve westbound off-ramp at Exit 387 (Western Ave)



# RECOMMENDED SAFETY IMPROVEMENTS



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## TSMO

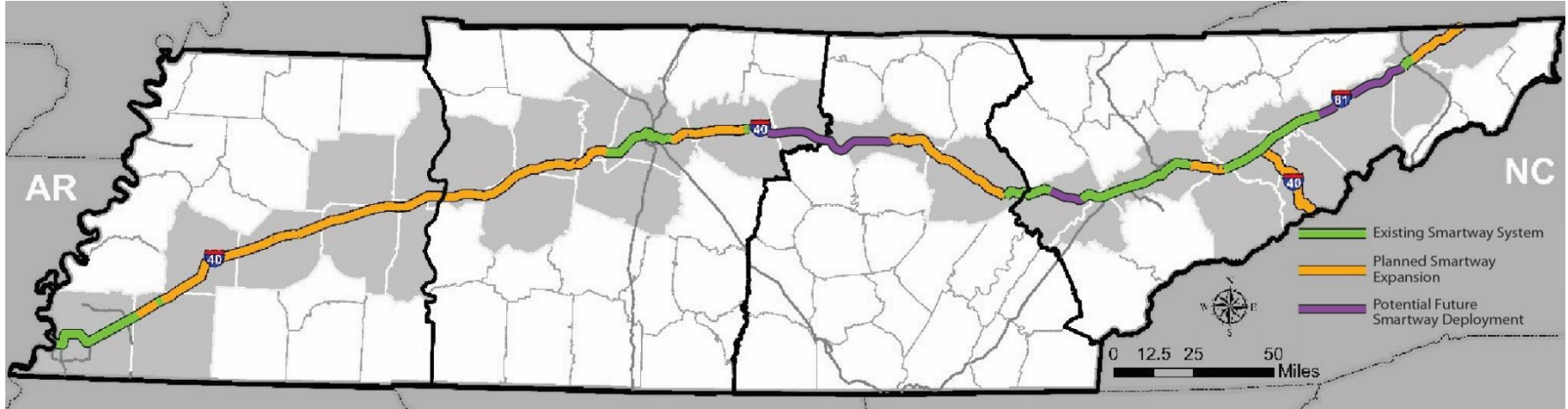
- Management of transportation facilities with strategies to maximize their existing efficiency
- Often involves technology – but not always
- Can delay the need to physically expand the facility

### Examples of TSMO strategies:

- ✓ Real-time traveler information
- ✓ Integrated corridor management (ICM)
- ✓ Managed lanes
- ✓ Ramp metering



# RECOMMENDED SMARTWAY EXPANSION



## Smartway Expansion includes:

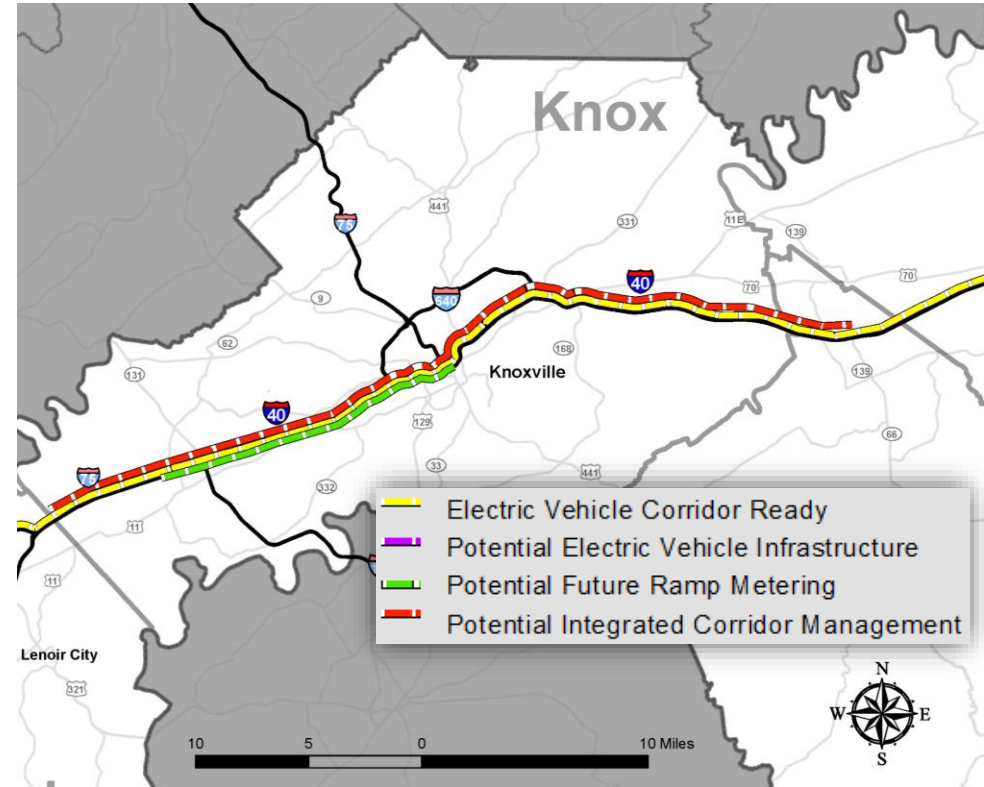
- Radar speed detection
- Roadway weather sensors
- CCTV cameras
- Dynamic message signs

# RECOMMENDED TSMO STRATEGIES



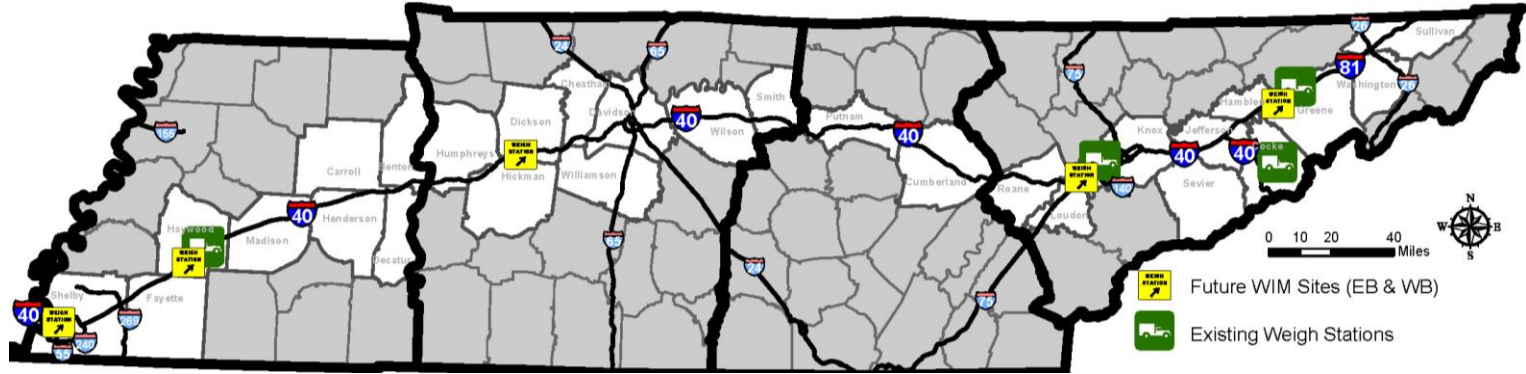
## I-40, Knoxville area

- Future Integrated Corridor Management (ICM) from I-75 to Exit 407 (Sevierville)
  - *Adaptive signal timing equipment on local arterial highways is key*
- Potential ramp metering between west Knox County and downtown Knoxville





# WEIGH IN MOTION TECHNOLOGY



## Future Weigh in Motion sites on I-40 and I-81:

- Shelby County
- Haywood County
- Dickson County
- Knox County
- Greene County

# ELECTRIC VEHICLES / ALTERNATIVE FUELS



## Legend

### Alternative Fuel Corridors

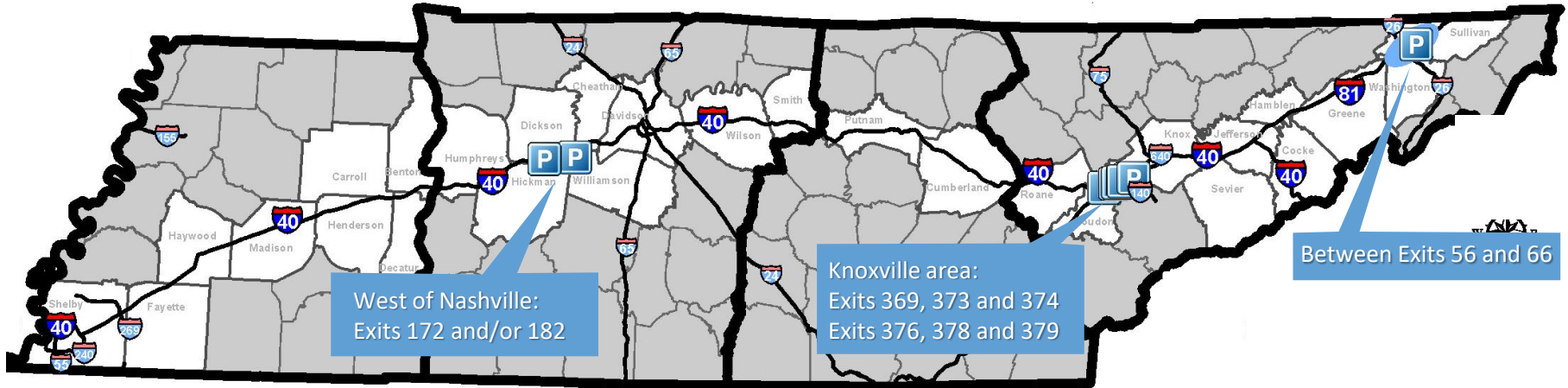
— EV Corridor Ready

— EV Corridor Pending

## National EV “Corridor Ready” guidelines:

- Public DC fast charging stations at least every 50 miles
- Stations no farther than 5 miles off the corridor
- Equipped with multiple connector types

# FUTURE PARK AND RIDE FACILITIES



# HOW TO SHARE YOUR INPUT



Q&A session at today's virtual meeting

Visit the project website:  
[www.tn.gov/tdot/i-40-81-study.html](http://www.tn.gov/tdot/i-40-81-study.html)

Take our survey:

<https://www.surveymonkey.com/r/I4081Study>

Contact TDOT:

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Nashville, TN 37243-0349

# DISCUSSION, QUESTIONS, COMMENTS

