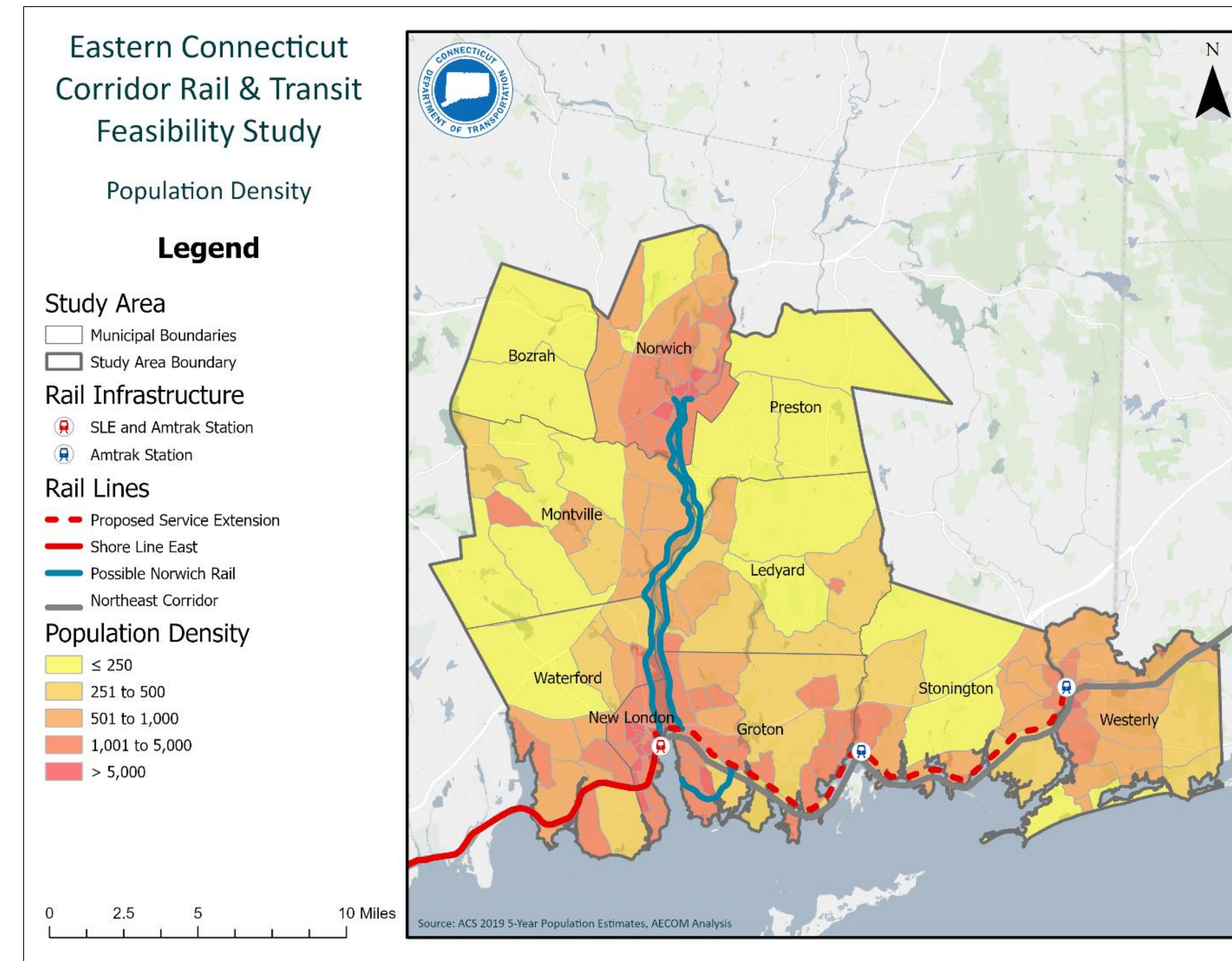
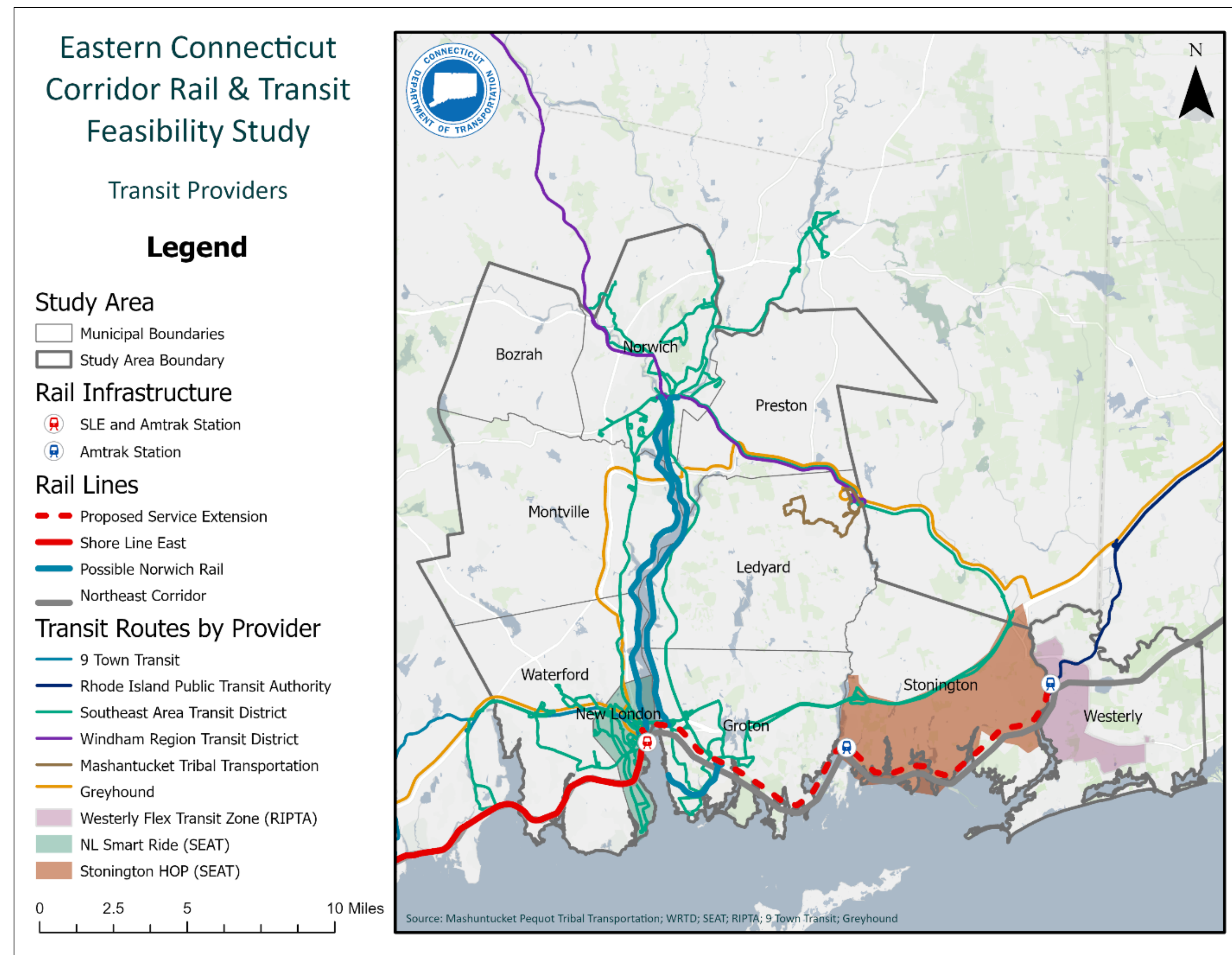
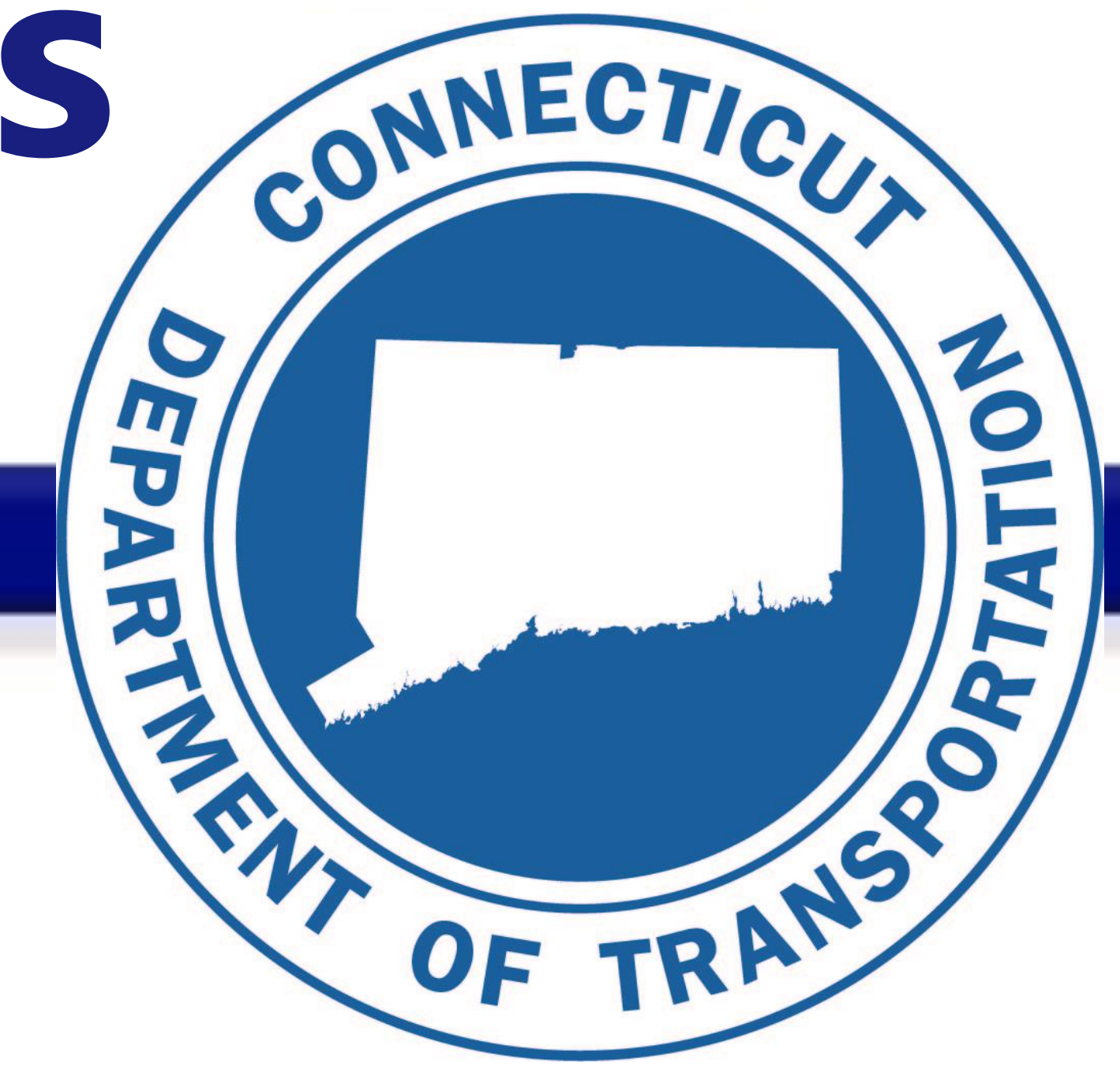
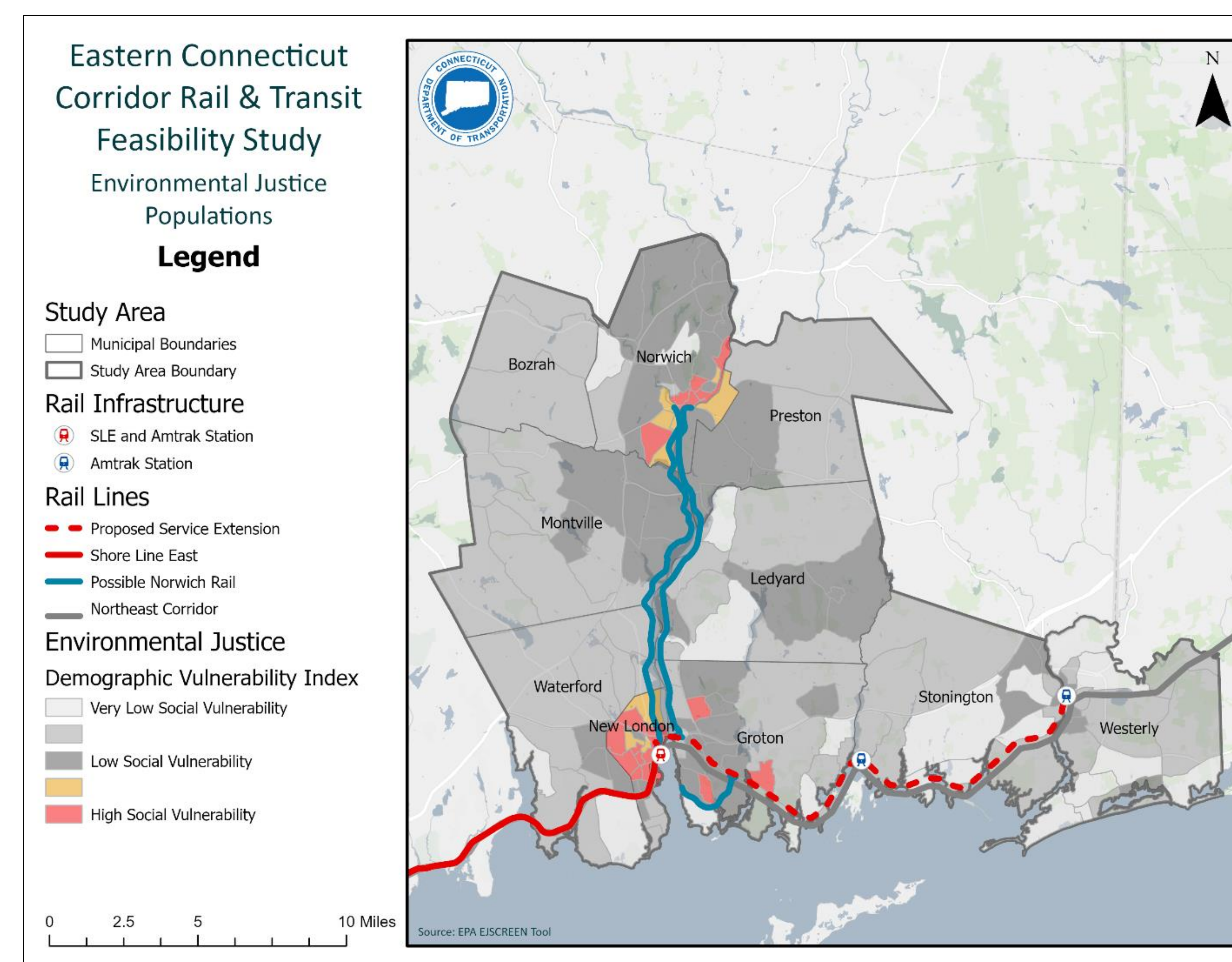
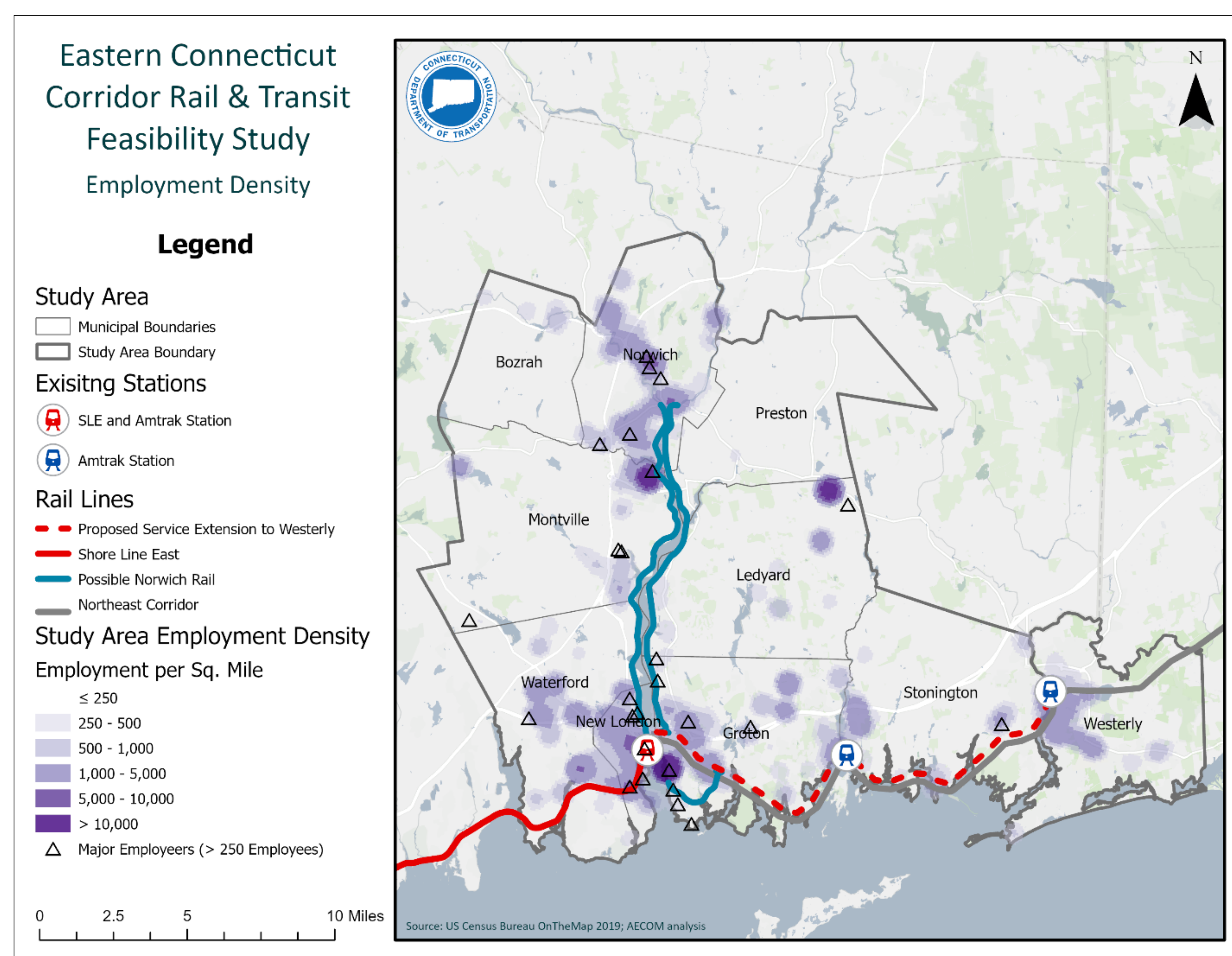


# Transit Market and Engagement Findings



Feedback from public engagement efforts identified that existing public transportation options:

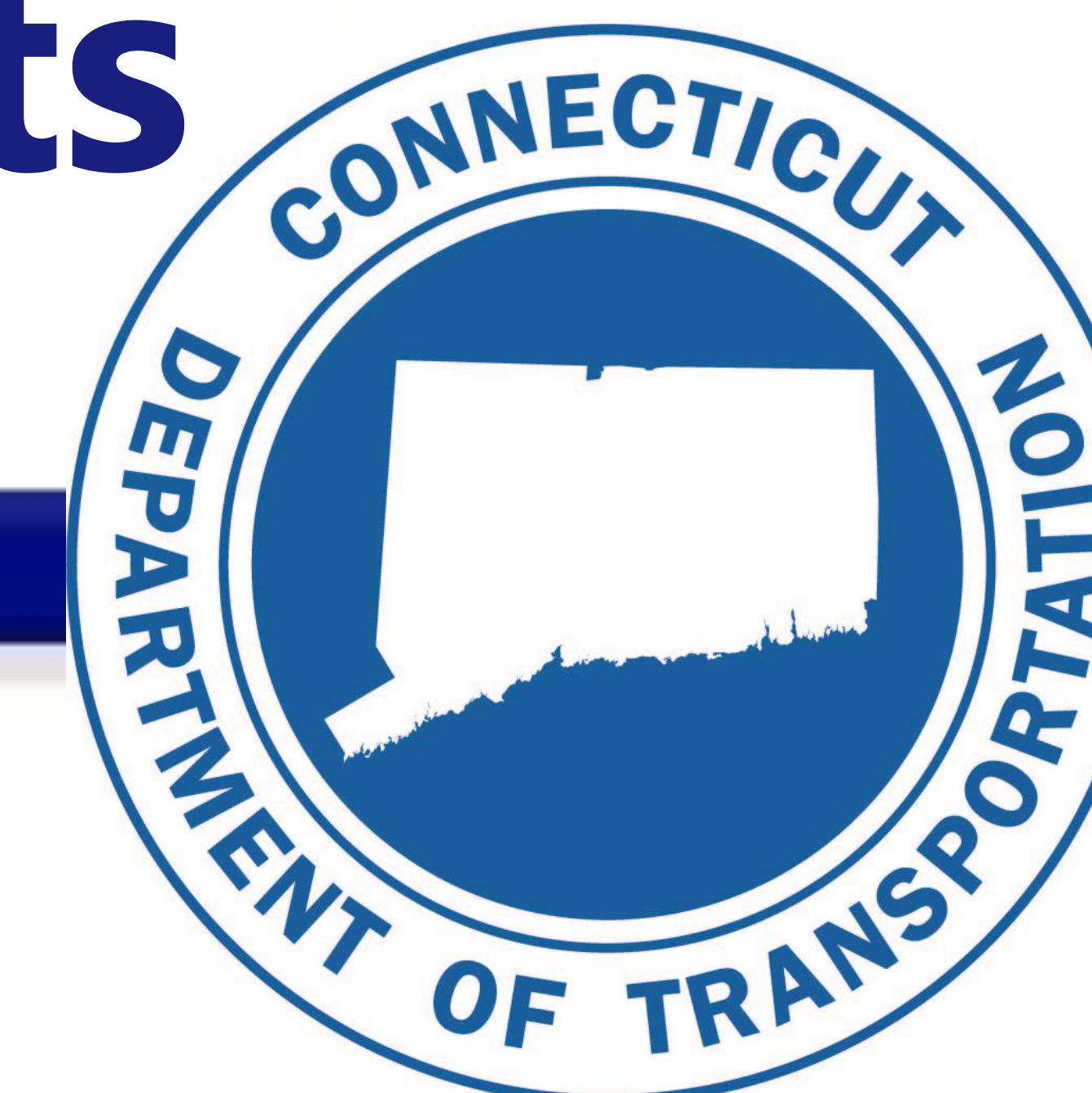
- Do not run frequently enough
- Have limited service on weekdays and especially weekends
- Do not provide fast service between regional nodes



Study Area residents vocalized concern about:

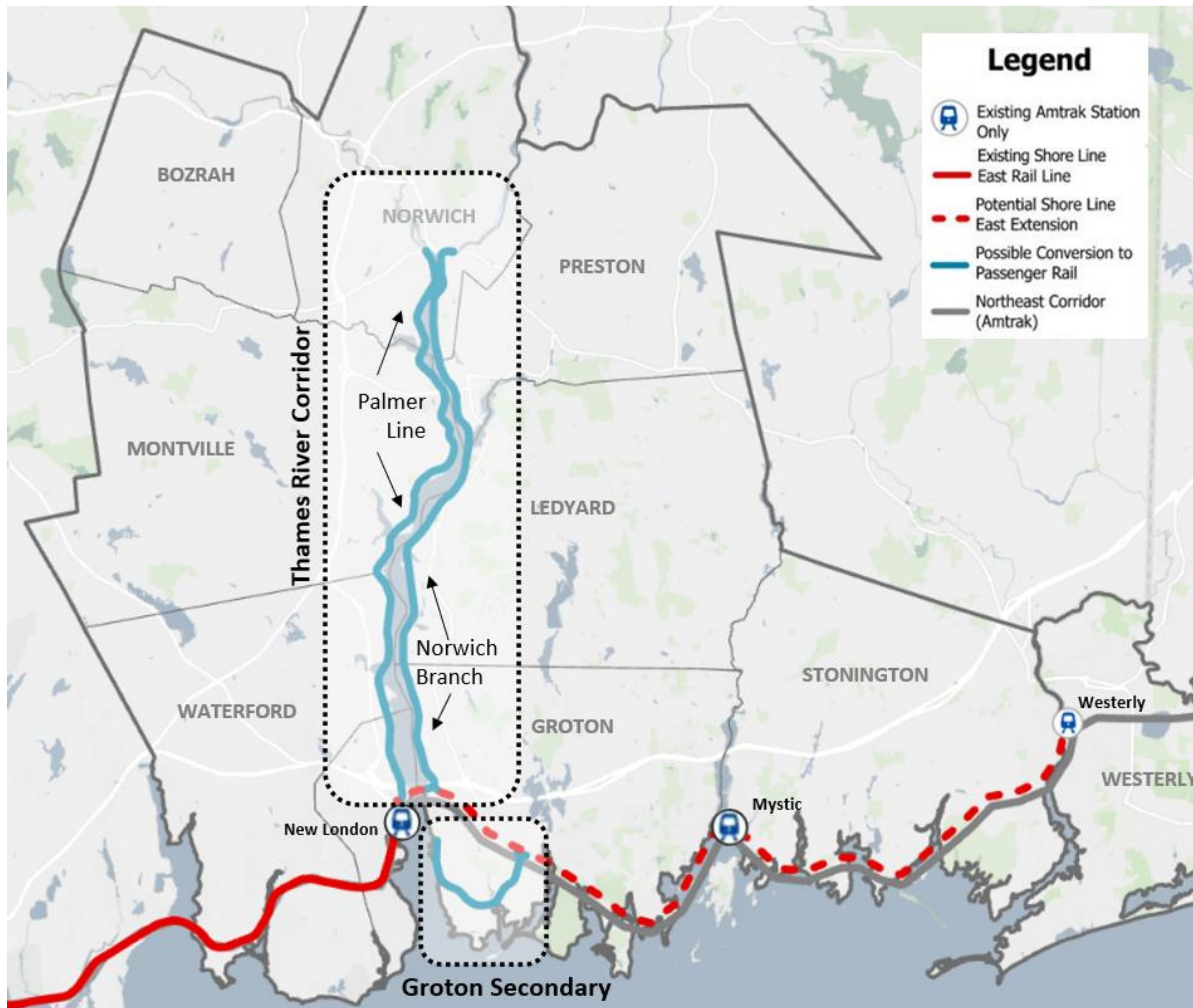
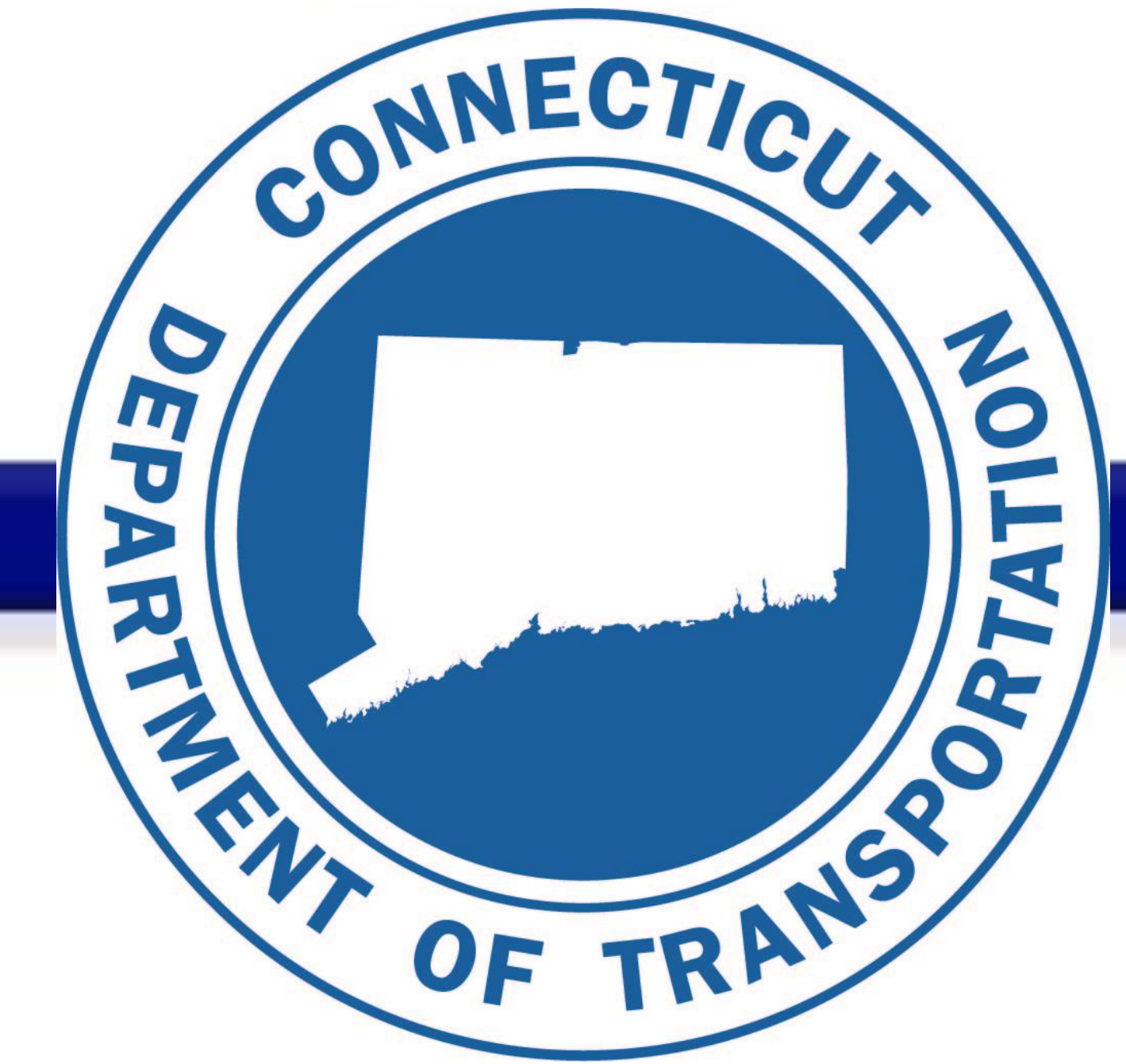
- Congestion and traffic
- Lack of parking
- Affordable housing availability in the face of population/job growth
- Accessibility of high-paying jobs

# Outreach Effort and Engagement Insights



	Engagement	Topics	Findings
<b>Steering Committee</b>	4 Milestone Meetings	<ul style="list-style-type: none"> <li>• Project goals</li> <li>• Framework for future decision-making</li> </ul>	<ul style="list-style-type: none"> <li>• Receive feedback on drafts</li> <li>• Provide up-to-date information</li> </ul>
<b>Working Groups</b>	Customer-focused, municipal, rail, and transit stakeholders	<ul style="list-style-type: none"> <li>• Equity and customer needs</li> <li>• Economic development and station siting</li> <li>• Rail data, alignments, projections</li> <li>• Ground transportation options and connectivity</li> </ul>	<ul style="list-style-type: none"> <li>• Demand for more weekend service, longer service hours, increased frequency, more efficient routes, and better connectivity</li> <li>• Limited funding is a barrier, especially for operations</li> <li>• Microtransit has been embraced</li> <li>• Potential station locations congruent with future development</li> </ul>
<b>Major Employers and Anchor Institutions</b>	15-20 Individual Interviews	<ul style="list-style-type: none"> <li>• Transit demand</li> <li>• Employee TDM benefits</li> <li>• Parking</li> <li>• Employee travel patterns</li> <li>• Future plans</li> </ul>	<ul style="list-style-type: none"> <li>• Transit issues: infrequent service, limited hours, geographic gaps in system coverage</li> <li>• Appetite for rail, bus, and ferry options</li> <li>• Job growth with limited affordable housing is a concern</li> </ul>
<b>General Public</b>	2 in-person meetings, 1 virtual meeting, and Public survey	<ul style="list-style-type: none"> <li>• Input on proposed transit and rail improvements</li> <li>• Survey of where people live, common travel destinations</li> <li>• Desirable additions to the transportation network</li> </ul>	<ul style="list-style-type: none"> <li>• Concern about environmental, community and parking impacts</li> <li>• Value safety and economic growth/access to jobs</li> <li>• Expressed interest in more frequent transit, corridor electrification, and extending transportation services across the state</li> </ul>

# Preliminary Feasibility Assessment



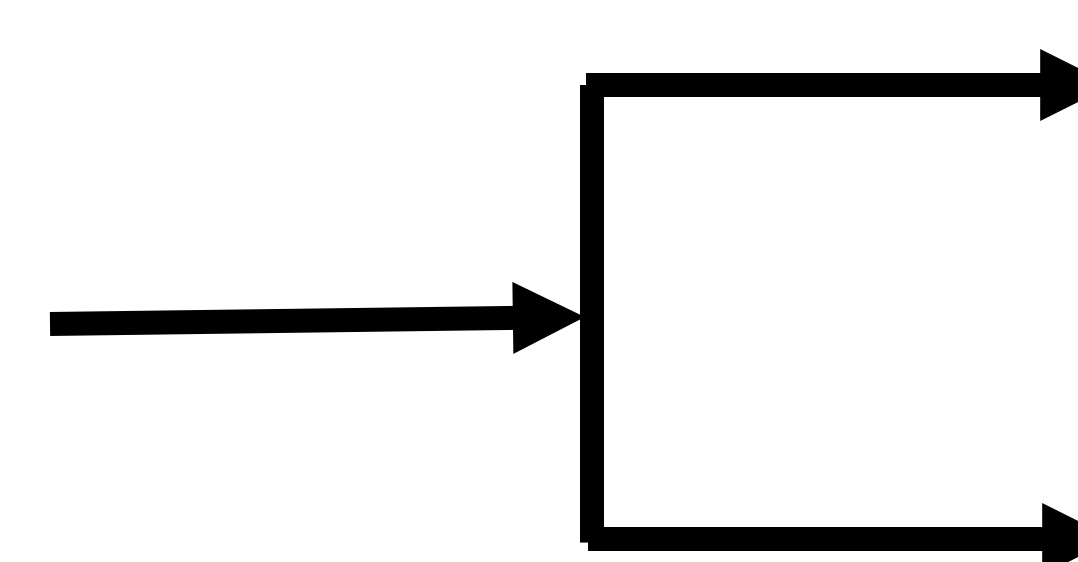
The Study examined 4 rail alignments along 3 corridors to determine the feasibility of implementing passenger rail service.

- **All lines are technically feasible** for operations
  - Cost to upgrade infrastructure along the Palmer Line and Norwich Branch is comparable
- Thames River Bridge is a **key constraint**
  - Due to existing operations and Amtrak's future scheduling, only **one additional train per hour** in each direction can be accommodated east of New London
  - Service along the Norwich Branch, Groton Secondary, and SLE Extension each require passage over the bridge

To serve the largest transit market, passenger service along the **Palmer Line** and **NEC** were studied further

## Recommended for Future Study:

Addressing Regional  
Transportation  
Needs



Short Term Strategies



*Improving transit service could increase access to jobs, housing, and regional destinations more immediately.*

Long Term Strategies

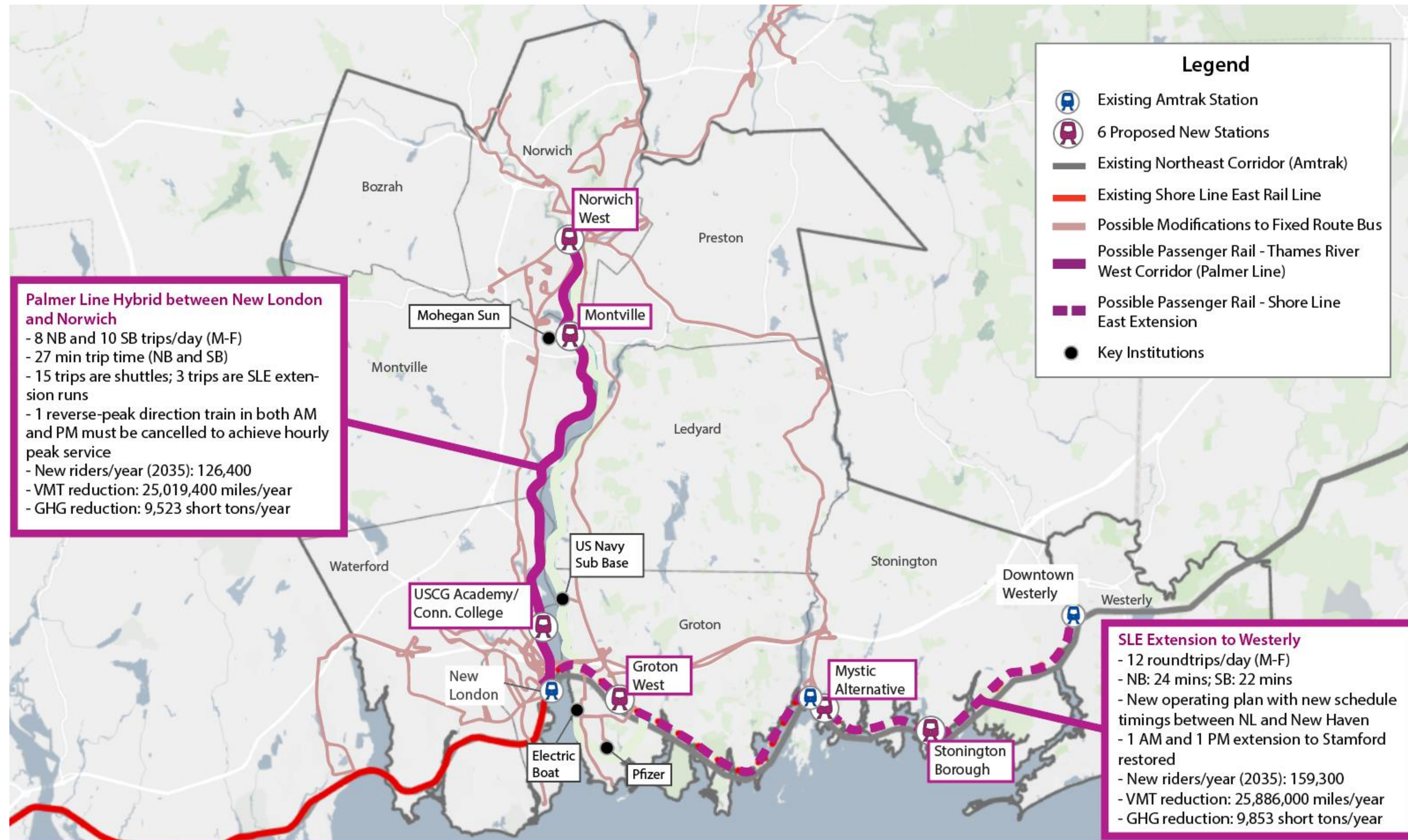


*Implementing passenger rail service could take 7+ years to achieve, provided further study, funding, and permitting.*

# Rail Service Plan



## Passenger Rail Operations: Palmer Line & NEC



### NEC/SLE Extension

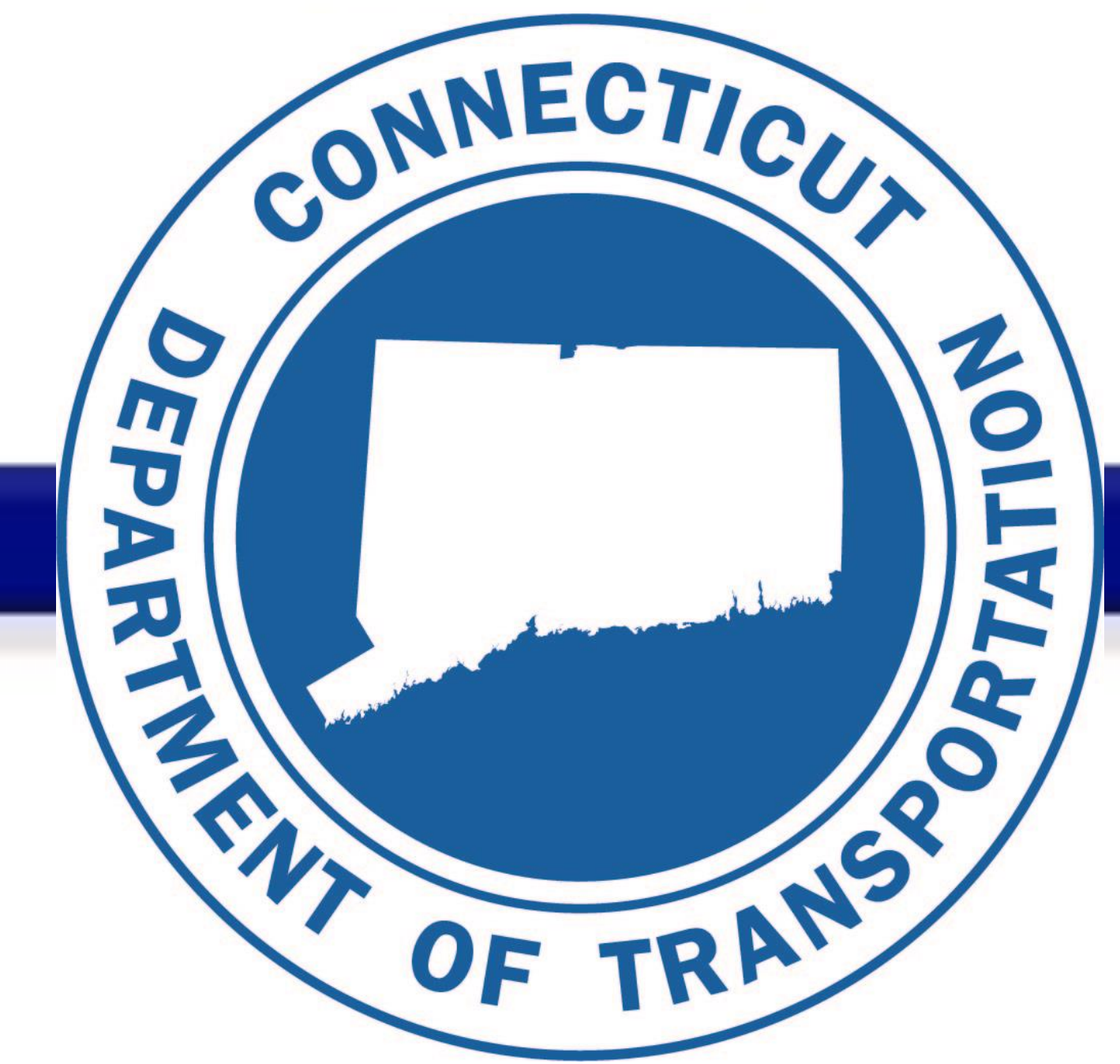
- Construction of 3 new stations with high-level boarding platforms
- A high level platform and track work would be needed in Westerly
- New trainset would need to be procured
- Track upgrades and electrification needed
- \$243+ M Estimated Capital Costs
- \$52 M Estimated Annual Operating Costs

### Palmer Line

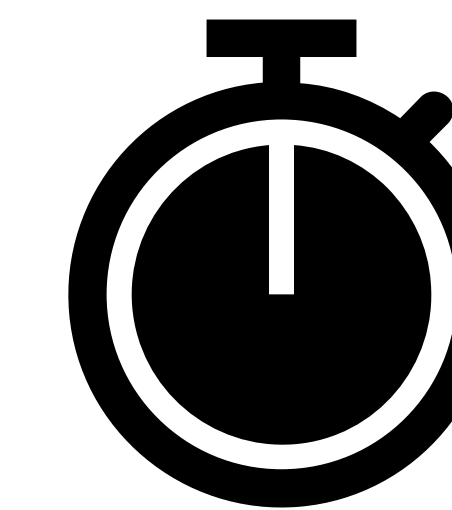
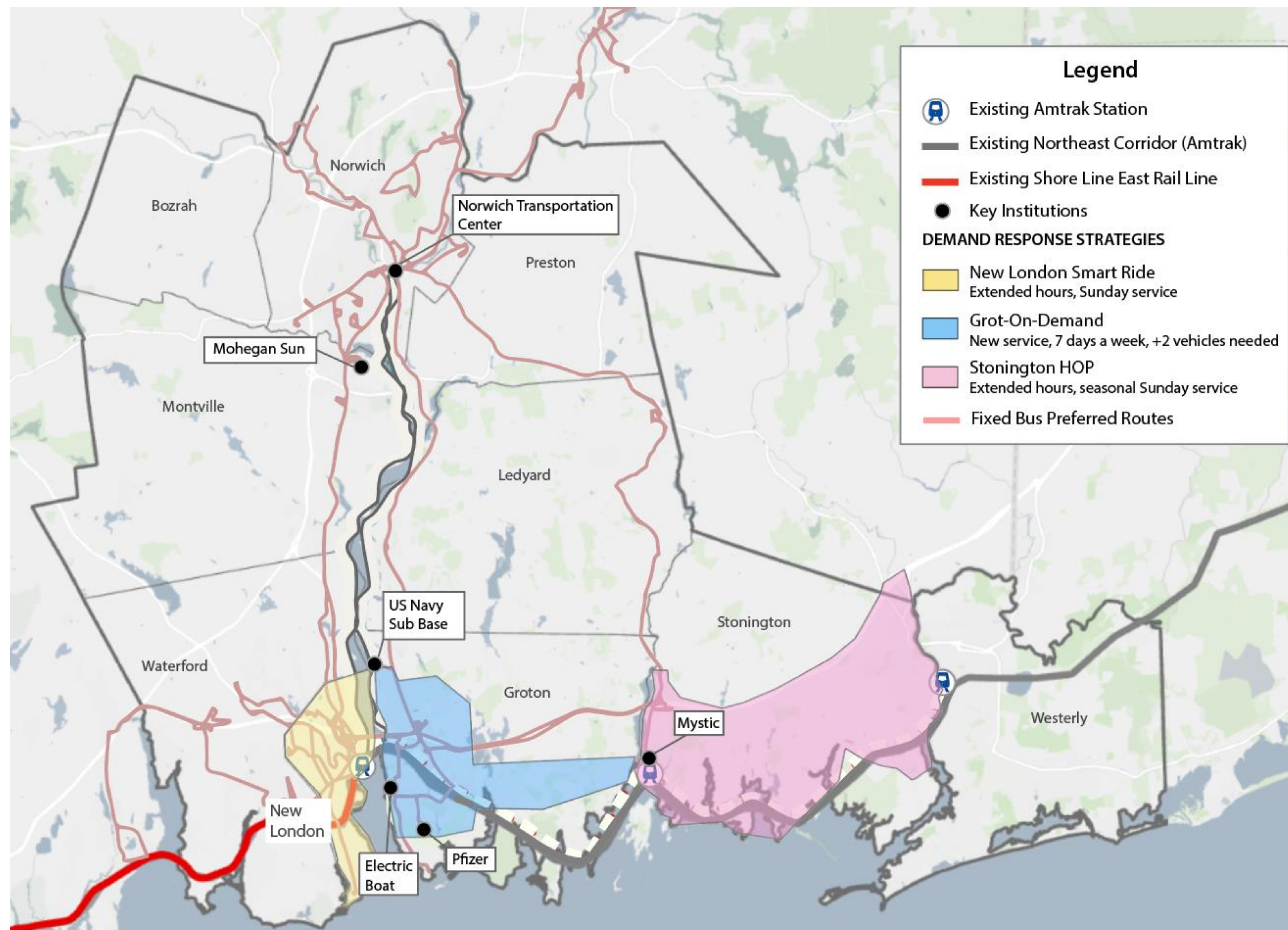
- Substantial improvements to rail infrastructure such as track, structures, and grade crossings
- 3 new train stations
- Yard space would need to be constructed
- New trainset would need to be procured
- \$636+ M Estimated Capital Costs
- \$43 M Estimated Annual Operating Costs

Rail Strategies total a capital investment of over **\$1 billion** (2023 dollars).

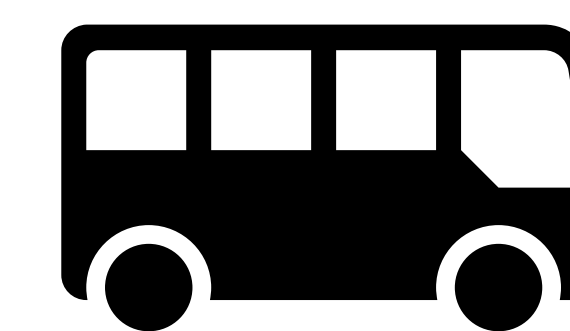
# Transit Service Plan



## SEAT Fixed Route & Demand Response Strategies



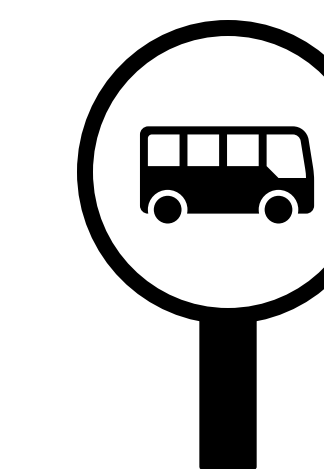
**Increasing the frequency and travel speed** along high-ridership routes, such as 30-minute frequency connecting New London/Groton and Norwich.



**Implementing new routes** to expand access to cost-burdened renters, creating a one-seat ride connecting the US Navy Submarine Base and Electric Boat, and providing competitive transit options during tourist seasons such as through seasonal service to Mystic.



**Expanding hours** to include earlier service, later service, and Sunday service on select routes. This may improve access to jobs, grocery stores, medical facilities, faith-based organizations, and other commercial activities.



**Upgrading bus stop infrastructure** at high-volume stops.

### Standalone Bus Strategies

Strategies independent of Rail  
*(pictured above)*

Annualized Operations Cost, 2023 Dollars:  
\$12.3M (+48%)

### Bus + Rail Strategies

Rail complementary strategies *(alignments change to serve stations, Sunday service implemented, duplicative service removed)*

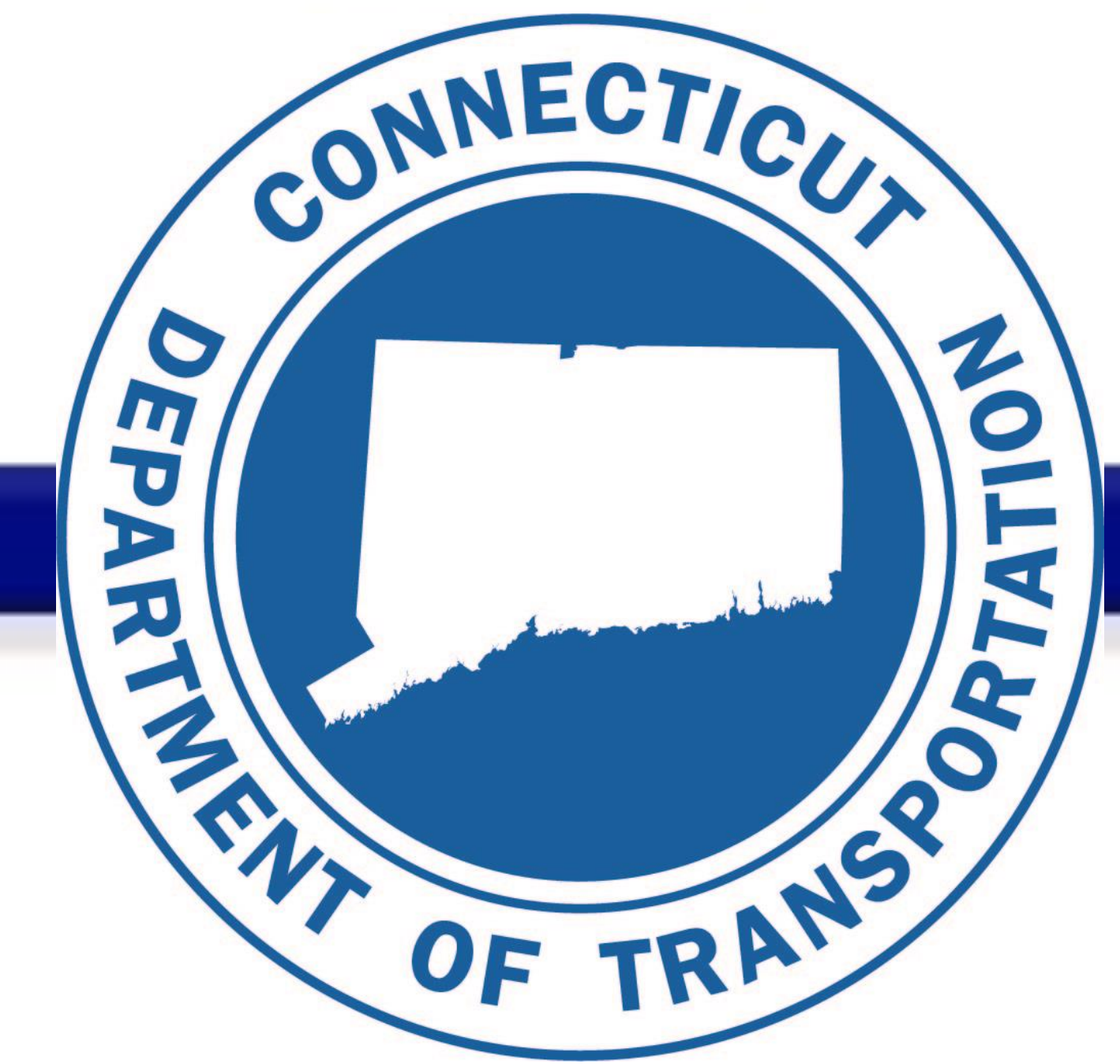
Annualized Operations Cost, 2023 Dollars:  
\$11.8M (+42%)

### Policy and Infrastructure Upgrades

Bus stops, vehicle procurement, roadway improvements

Capital Cost, 2023 Dollars:  
\$9-10M

# Transit Oriented Development Analysis (TOD)



Compared to benchmark cities, the Study Area has:

- lower median income
- less job growth
- smaller share of professional jobs
- seen a smaller improvement in poverty

The Study Area has a housing affordability problem:

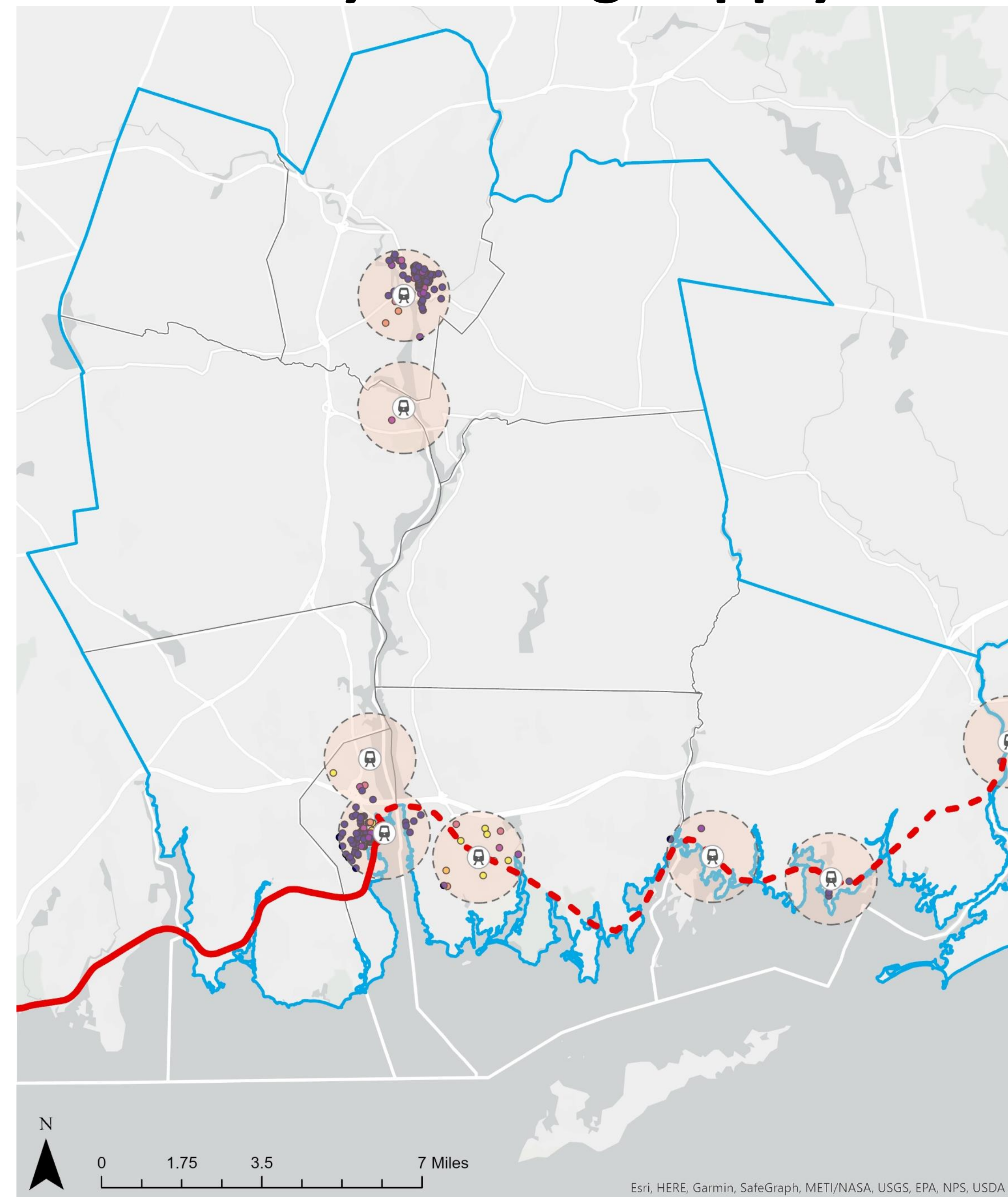
- 44% of all renters are cost-burdened (paying more than 30% towards housing)
- 25% of jobs pay a salary that make homeownership unattainable

**Investment in rail and transit could be a catalyst for TOD and improving economic outcomes**

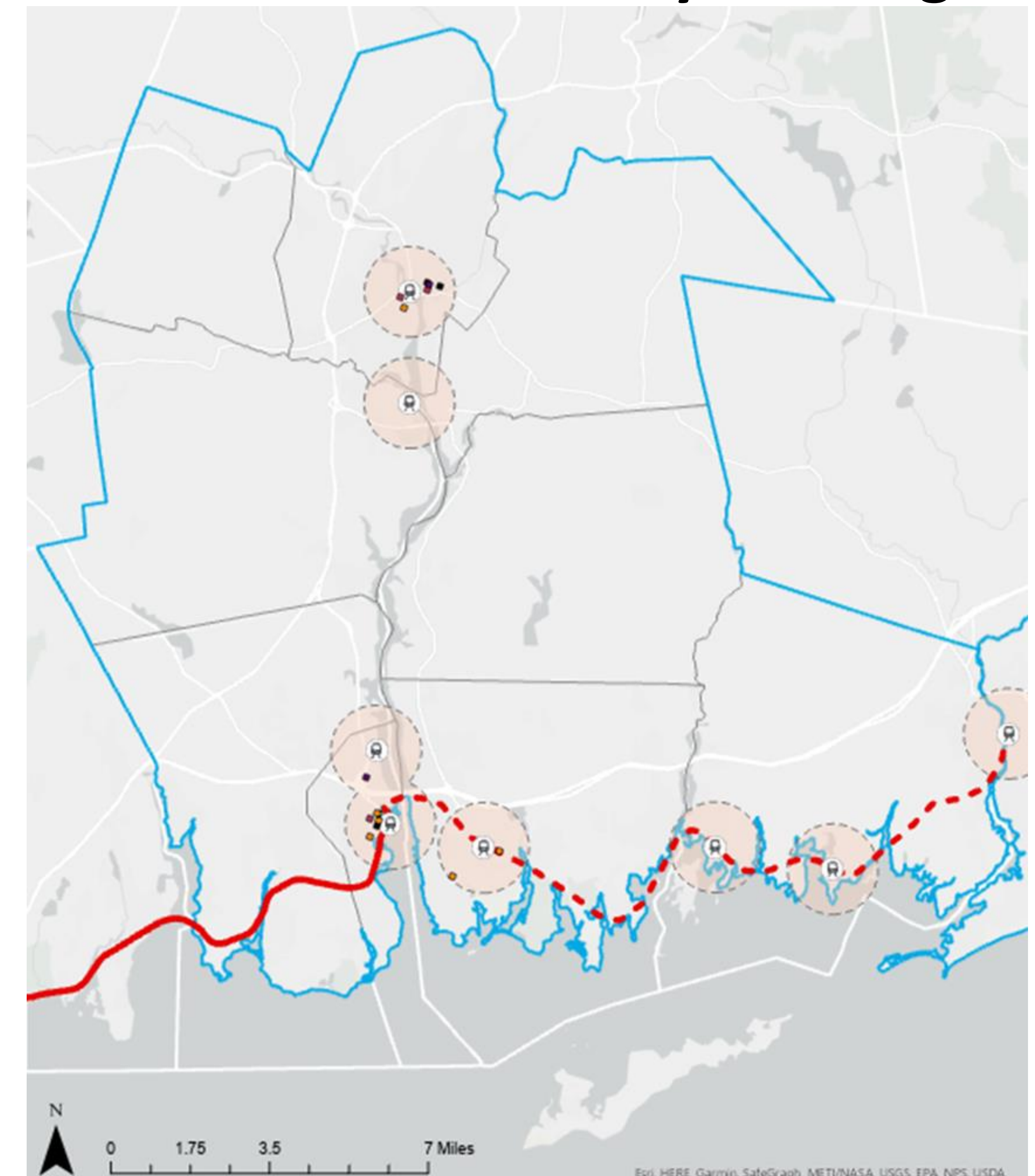
The Thames River Corridor is a good candidate for TOD with associated changes to zoning to enable it.

- Nearly 1,000 vacant housing units within ½ mile
- Demographic propensity for transit ridership (those living within ½ mile)
  - Young
  - Earn lower income
  - 70% of households are renters
  - 25% of renters don't have a vehicle

### Multifamily Housing Supply



### Affordable Multifamily Housing



### Rail Construction Economic Impact

Investment in rail-related construction in these corridors is estimated to create:

**4,500  
jobs**

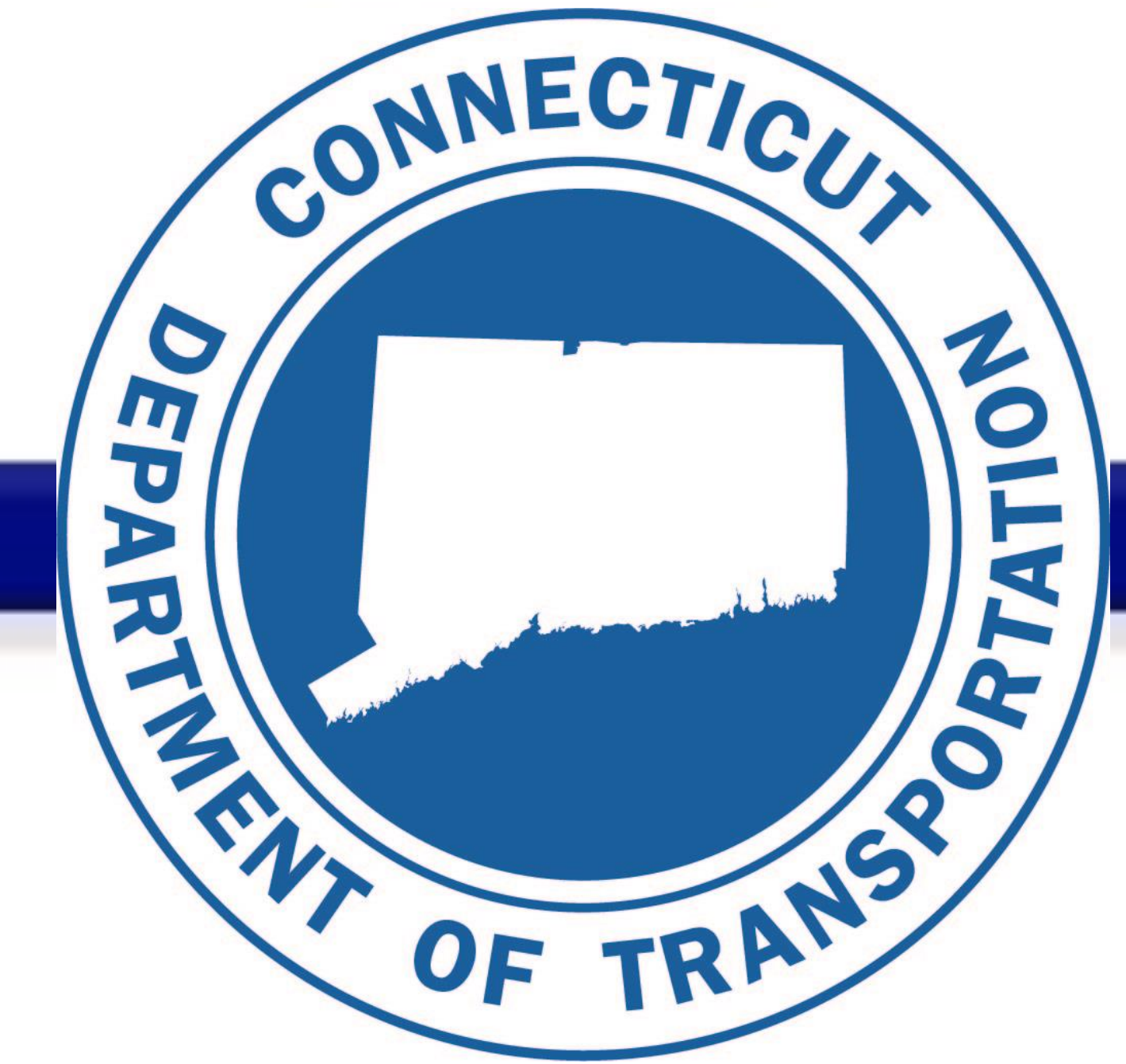
**\$860M  
sales**

*2023 dollars*

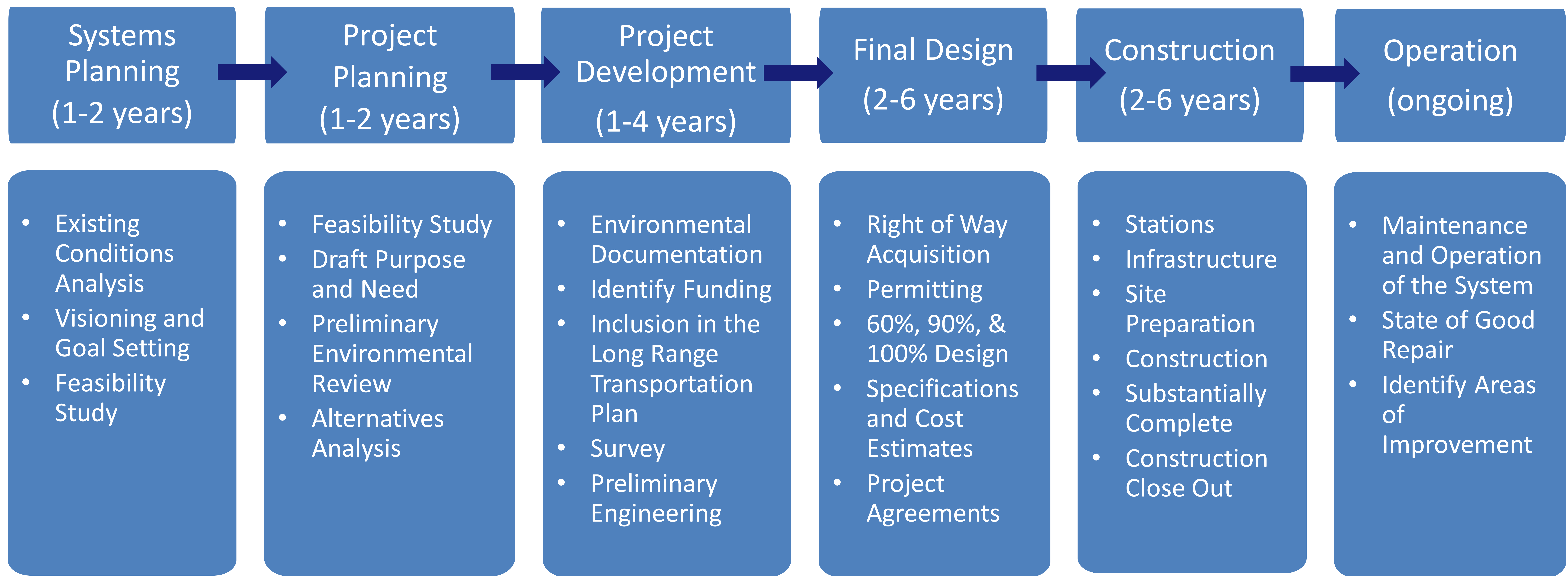
**\$340M  
earnings**

*2023 dollars*

# Project Lifecycle



Additional steps in the project development lifecycle would be needed before any transit or rail strategies could be implemented. *The project development lifecycle for rail is depicted below.*



If one strategy or a combination of strategies were to be identified as viable upon further study, that strategy could move forward as an independent project, proceed through the project lifecycle stages, and be incrementally phased.