Briefing for Transportation Finance Panel

- Corridor Economic Impact Analysis
- Status Report

TFP Webinar September 29, 2015









Tom Maziarz, CTDOT Glen Weisbrod, EDRG

Economic Analyses

of Let's Go CT Transportation Investments

Where we are in the process:

- ready to deliver new type of information to assist decision makers
- to assess value of investments relative to cost

Economic assessment: of transportation investments

- new measures to *gauge the worth* of investments
- <u>beyond standard</u> transportation measures like accident & congestion reduction

Today's presentation: first part of economic analysis

- corridor-level analysis
- 3 highway corridors
 - with the largest & boldest improvements
 - important <u>conduits of commerce</u>
 - among our most congested.

Summary of initial findings: good return on investment

- Demonstrate that transportation investments will spur growth in jobs, business, & income.
- · Economic benefits will far exceed the cost of building the projects

Economic Analyses

of Let's Go CT Transportation Investments

Presentation of Initial Analyses to Transportation Finance Panel

September 29, 2015

- 1. Introduction: Tom Maziarz, CTDOT
 - Overview plus schedule for remaining analyses
 - Explanation of 3 corridors to be presented today
 - Purpose & approach to conducting the economic analyses
- 2. Methods & Results: Glen Weisbrod, Economic Development Research Group
 - Methods
 - Results
 - o I-95 West corridor
 - I-95 East corridor
 - I-84 West corridor

Economic Analyses

Scope of analysis & Timeline for completion

Highway analyses:

- Major corridor 'packages': TODAY
 - o Present major corridors as full packages first
 - o Major projects & key segments being analyzed individually
- Individual projects: end of October

Transit analyses:

- Metro North mainline: New Haven to NY: end of October
 - o Special & more detailed analyses using NEC data
 - o Assess impacts of more frequent and faster service
 - o **<u>2+2 track configuration</u>**: 2 tracks for local & 2 tracks for express service.
- Other individual projects: Waterbury Branch, Hartford Line, SLE: end of Oct.

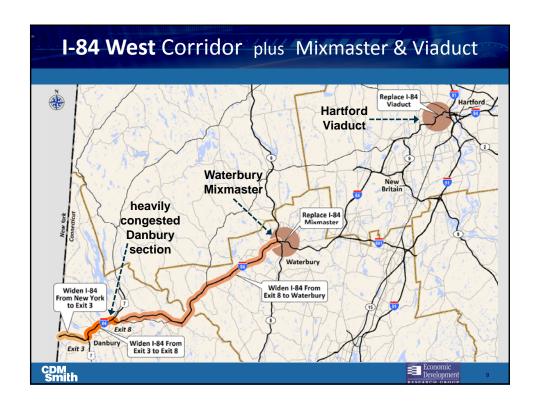
CDM Smith



| | I-95 West | I-95 East | I-84 West |
|---|----------------------------|------------------------|------------------------|
| Length (Miles) | 50 | 60 | 37 |
| Daily Traffic | 135,000 | 84,000 | 80,000 |
| % Trucks | 13.6% | 10.5% | 12.7% |
| Daily VMT Vehicle <u>Miles</u> Traveled | 6,500,000 miles | 3,700,000 miles | 3,100,000 miles |
| Annual VHT Vehicle <u>Hours</u> Traveled | 45.1 <i>M hours</i> | 24.0 M hours | 29.2M hours |
| Annual Delay Hours of congestion | 5.3 M hours | 2.1 M hours | 2.6 M hours |







Why we conducted economic analysis

Traditionally, transportation plans were based on standard measures of **safety**, **congestion**, & **mobility**. For this strategic plan, we need to go *beyond standard measures*.

Purpose of economic analysis:

Assess project's ability to **support other strategic goals** of CT (<u>especially economic growth</u>)

- Assess "economic value" of safety, congestion, & mobility improvements
- Assess a project's potential to facilitate or spur economic growth

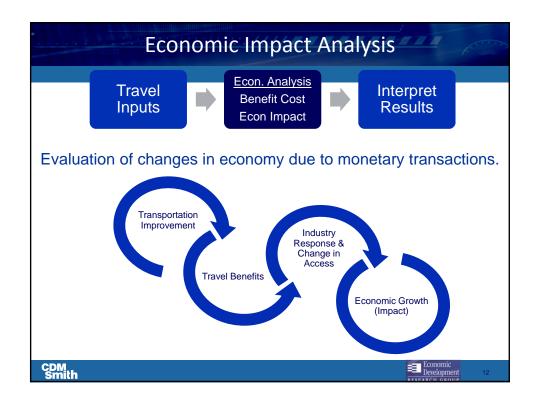
Glen will explain <u>multiple methods</u> used to get <u>more & better insights</u> into value of projects

CDM Smith

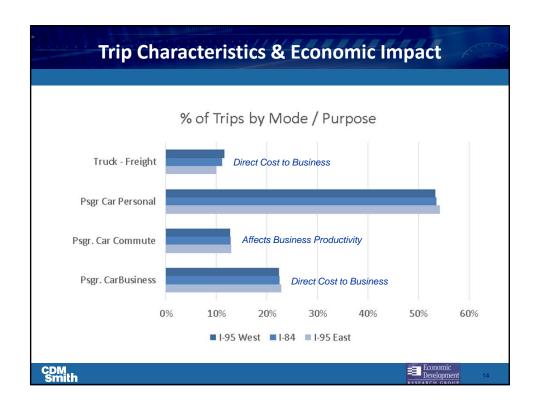


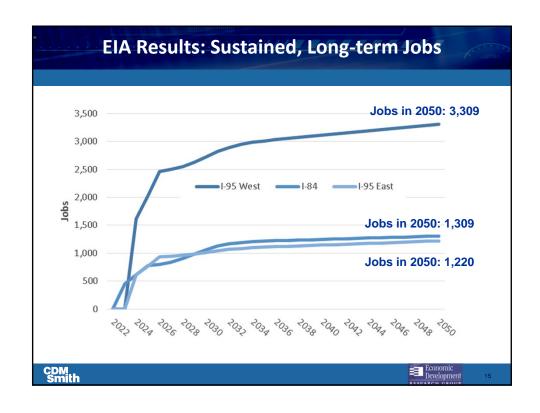
Glen Weisbrod President, Economic Development Research Group • 37 years experience on economic assessments of energy, transportation, & economic development programs • Advised over 20 state DOT's • Former Chair of Transportation Research Board's (TRB) 'Committee on Transportation & Economic Development' • Coauthored: • TRB guide: Assessing Social-Economic Impacts of Transportation • FHWA guide: Measuring Economic Impacts of Highways • APTA's guide: Economic Impacts of Public Transportation

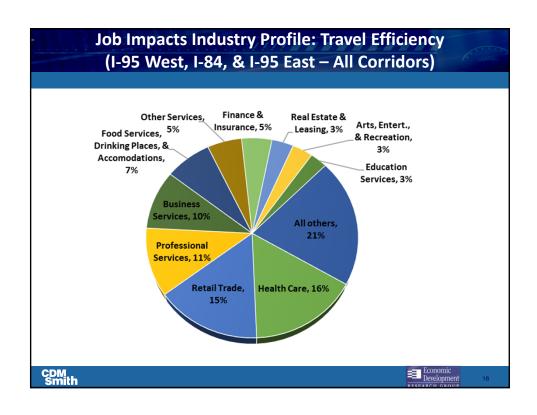
CDM Smith

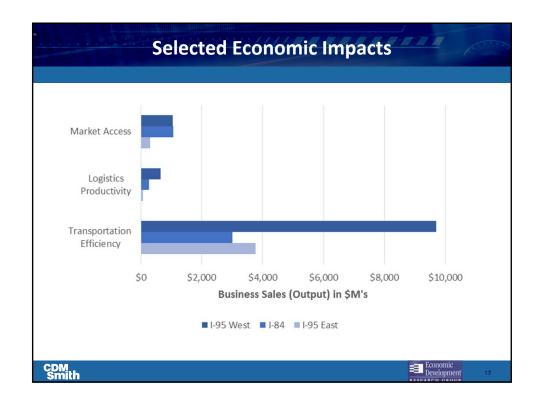


| Benefit Categories | Travel Factors | |
|--------------------------------|--|--|
| Economic Impact Factors | | |
| Vehicle Operating Costs | VMT, Mix of Vehicle Types, Congestion | |
| Time & Reliability (Business) | VHT, Trip Purpose, Congestion | |
| Logistics Productivity | Truck Fleet Mix, Commodity Mix, Congestio | |
| Market Access | Effective Size of Labor and Delivery markets | |
| Other Societal Benefits | | |
| Personal Time (Not Business) | VHT, Trip Purpose, Congestion | |
| Safety | VMT, Speed, Road Class/Design | |
| Environment | Fleet Mix, VMT, Congestion | |



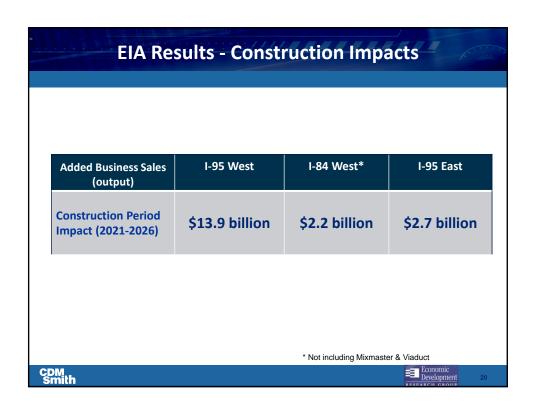


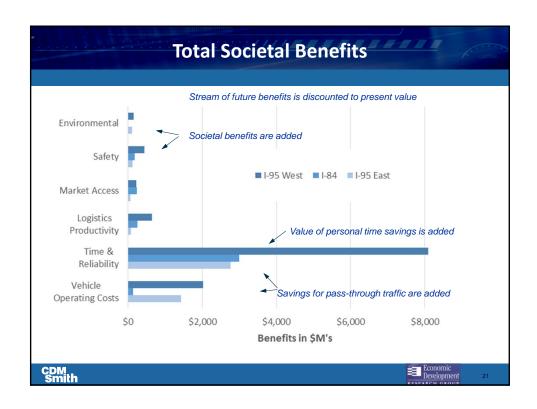


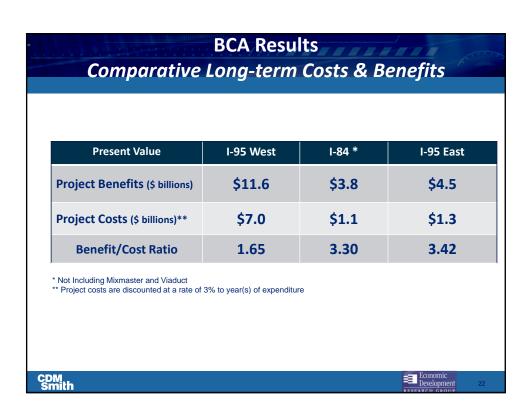












Summary

- The three packages of projects address severe congestion along key economic corridors
- Completion of these projects will enable Connecticut to add roughly 5,800 jobs (that would otherwise not occur)
- The impacts will be spread widely across the State's economy
- All three projects have Benefit/Cost ratios well over 1.0, meaning that there is a <u>positive Return on Investment</u>
- The next step is to conduct more analysis of individual highways and transit investments

CDM Smith



23

Summary

- The three packages of projects address severe congestion along key economic corridors
- Completion of these projects will enable Connecticut to add roughly 5,800 jobs (that would otherwise not occur)
- The impacts will be spread widely across the State's economy
- All three projects have Benefit/Cost ratios well over 1.0, meaning that there is a *positive Return on Investment*
- Represent critical interventions to support the state's economic future
 - they allow CT to remain competitive as a business location site
 - without these projects, the high costs of congestion would drive away a portion of the state's business growth.
 - there would be over 5,000 fewer long term, permanent jobs in CT
- <u>Next step</u>: conduct more analysis of individual highways & transit investments

24