Delaware Department of Transportation
Dover-Kent MPO
Technical Advisory Committee
February 18, 2020

DelDOT

Why consider changes now?

- Current process was adopted in December 2013
- DelDOT's current investments in data collection allows the opportunity for more "data-driven" process
- Other criteria have evolved, possibly better able to "drive the CTP"

PRIORITIZATION PROCESS REVISIONS & UPDATES

Existing Criteria	Current	Proposed	(Proposed New Element)
Safety	33.0%	35.0%	Safety Crash Index Safety Score State Highway Safety Program
System Operating Effectiveness	24.8%	19.1%	Existing Congestion Level (TMC Data)
Multi-Modal Mobility Flexibility & Access	15.6%	11.85%	(No Technical Changes at this Time.)
Revenue Generation Economic Development Jobs & Commerce	7.9%	13.11%	Economic Impact (TREDIS)
Impact on the Public Social Disruption Environmental Justice	7.2%	8.28%	Social and Health Impact (EPA EJ Screen)
Environmental Impact	6.5%	6.6%	(No Technical Changes at this Time.)
System Preservation	5.0%	6.06%	Priority State (Strategic Investment Levels) Local (County / MPO Priority)
	100%	100%	



Safety

Existing

- Safety (33%)
 - Identified in Safety Program –26.4%
 - Address Strategies in State
 Highway Safety Program (SHSP)
 - -6.6%

- Safety (35%)
 - Critical Crash Ratio 12.7%
 - o Crash Index 16.2%
 - Address Strategies in State
 Highway Safety Program (SHSP) –

System Operating Effectiveness

Existing

- System Operating Effectiveness (24.8%)
 - Existing Level of Service–12.4%
 - Identified as a Congested Corridor by the MPO/Comprehensive Plan/Studies - 12.4%

- System Operating Effectiveness (19.1%)
 - Existing Congestion Level12.4%
 - Identified as a Congested Corridor by the MPO/Comprehensive Plan/Studies - 6.7%

Potential CTP Project Prioritization Criteria

- System Operating Effectiveness
- **Existing Congestion Level**
 - Studies, TIS, TMC, Traffic Count, and TDM
 - Intersection
 - Weekday Peak Hour Volume
 - First week of June or Second Week of October
 - Tuesday or Wednesday
- Identified as Congestion Corridors by MPO, County Comprehensive Plans, and/or Planning Studies

- DelDOT TMC Operation Data
 - Bluetooth Readers
 - Traffic Signal System Detectors
- TMC operations data is collected 24/7/365 to provide a more complete picture of traffic operations
 - The traffic monitoring system is expanding every year, adding more and more devices

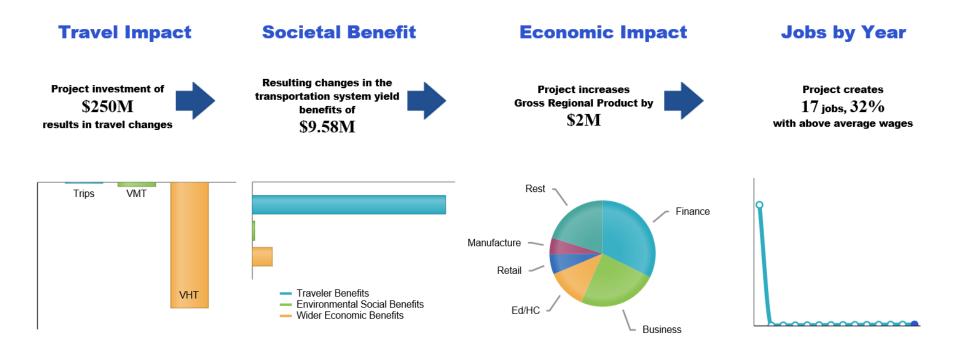
Revenue Generation/Economic Development/Jobs & Commerce

Existing

- Revenue Generation/Economic Development/Jobs & Commerce (7.9%)
 - Located in a Transportation
 Improvement District 2.63%
 - Degree of Non-State/Non-Federal
 Contribution 2.63%
 - Located in the Designated Freight
 Corridor 2.63%

- Revenue Generation/Economic
 Development/Jobs & Commerce
 (13.1%)
 - Located in a Transportation
 Improvement District 3.18%
 - Degree of Non-State/Non-Federal
 Contribution 1.64%
 - Located in the Designated Freight
 Corridor 2.59%
 - o Economic Impact -- 5.7%

TREDIS Example



Impact on the Public/Social Disruption/Environmental Justice Criteria Comparison

Existing

- Impact on the Public/Social Disruption/Environmental Justice (7.2%)
 - Assess the extent to which the project supports investment in existing communities and provides community enhancements such as sidewalks, safe routes to school, etc. - 7.2%

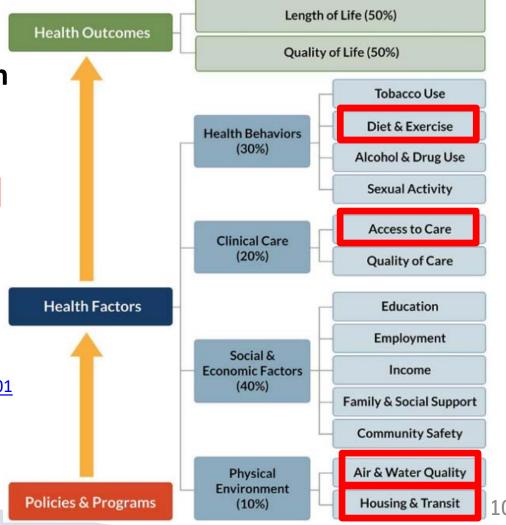
- Impact on the Public/Social Disruption/Environmental Justice (8.28%)
 - Assess the extent to which the project supports investment in existing communities and provides community enhancements such as sidewalks, safe routes to school, etc. - 4.33%
 - Social and Health Related Elements
 3.95%

Social Determinants of Health (SDoH)

"State innovation models are exploring connections among health care, social services, . . **transportation,** housing, and food with the assumption that outcomes and cost will improve.

Sources: "County Health Rankings & Roadmaps". https://www/countyhealthrankings.org/our-approach.

National Academy of Medicine https://www.nam.edu/social-determinants-of-health-101



Social and Health Related Elements

- Scale for 50 100 percentile (Above State Average)
 - 5 pt. for 90 100 percentile
 - 4 pt. for 80 90 percentile
 - 3 pt. for 70 80 percentile
 - 2 pt. for 60 70 percentile
 - 1 pt. for 50 60 percentile
 - Max. pt. = 10
 - 5 for Low Income Population
 - 5 for Minority
 - Min. pt. = 0

EPA EJ Screens Demographic Indicators (https://ejscreen.epa.gov/mapper/)



Potential CTP Project Prioritization Criteria (continued)

System Preservation (Delete)

- Assess the extent to which a project contributes towards system preservation and is identified through an existing preservation program
- DelDOT currently has a system preservation program for bridge, roadway pavement, signage, etc.
 - Around 90% of the current projects not applying this criteria.

Potential CTP Project Prioritization Criteria

(continued)

State Priority (3.92%)

- Delaware Strategies for State Policies and Spending
 - Prepared by Delaware Office of State Planning Coordination
 - Project Type matches the State Investment Level
 - Scheduled to be updated in 2020.

Local Priority (2.14%)

- Local Priority: Top 10 projects identified by Delaware MPOs and Sussex County that are supported by the local and/or state planning efforts could be given a higher weight in Decision Lens
 - Top ten (10) Local Priority Projects from each MPOs or Sussex
 County will be scored.

Delaware Strategies for State Policies and Spending

Transportation Investment Type	Level 1 Urbanized Area	Level 2 Developed Area	Level 3 Developing Area	Level 4 Rural
Preserving Existing Facilities	X	X		X
Safety Improvement	X	X		X
Context-Sensitive Transportation	X	X		
System Capacity Enhancement	X	X		
Transit System Enhancement	X	X		
ADA Accessibility	Χ	Χ		
Bicycle Facilities	Χ	X		
Signal System Enhancement	Χ	Χ		
Interconnectivity of Neighborhoods and Public Facilities	X	X		
Focus on Regional Movements between towns and other population centers.			X	
Developers and property owners will make local roadway improvements.			X	
Lower priority to transportation system capacity improvements			X	
Lower priority to transportation systemtransit system improvement			X	
Corridor-capacity preservation				X
Enhancement of transportation facilities to support agricultureal business				X

Questions

Public Comment

https://deldot.gov/Publications/reports/CTP/index.shtml

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