



Connecticut Department of Transportation Bureau of Policy & Planning Performance Management Unit

CTDOT Performance Based Planning and Programming (PBPP) Initiative

By Ricky Milliner



The PBPP Journey

Timeline of PBPP



Our Journey





The Pilot



- Developed major project prioritization framework in compliance with CT Gen Stat § 13b-13c
- Major highway projects were evaluated
- ❖ Identified challenges and Performance-Based Planning and Programming (PBPP) best practices



Getting to Version One



- Inclusive of bicycle and pedestrian benefits
- Enhancing criteria and methods
- Additional focus on Greenhouse gas emission and equity impacts
- Roadmap for performance data to inform the full project development lifecycle



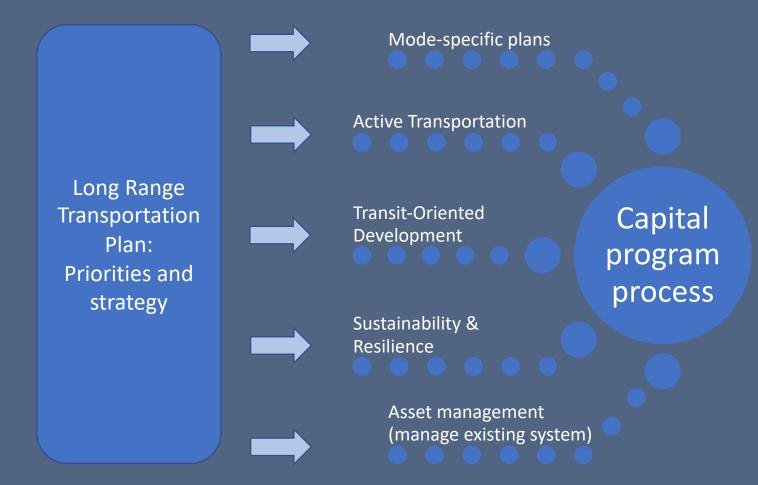


Overview of getting to version one



PBPP project in CT - "Project Prioritization Pilot"



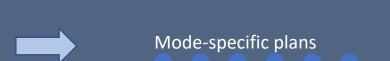


Program and Projects



PBPP project in CT - "Project Prioritization Pilot"





Long Range
Transportation
Plan:
Priorities and
strategy

Active Transportation



Sustainability & Resilience

Asset management (manage existing system)

Capital

program

process

PBPP – Covered by
Asset Management Process

Covered in Process

PBPP - "Prioritized Needs"

Program and Projects

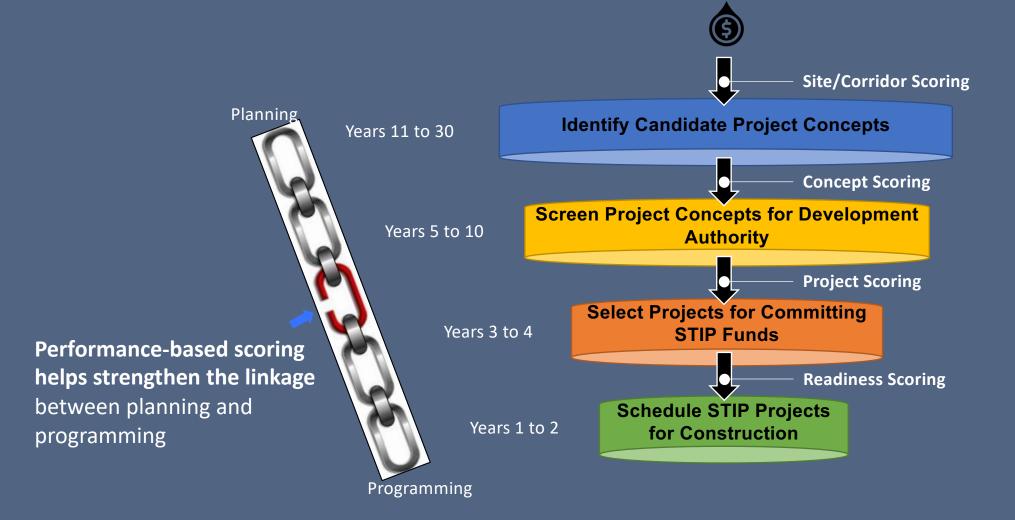




Building the Roadmap Focusing on Decision Points



Resource Allocation



Enhancing Criteria & Methods



The following draft criteria were designed to align with CTDOT's strategic goals and objectives



Enhanced Safety

Reduces Fatalities and Injuries



Environmental Stewardship

- > Improves air quality
- ➤ Mitigates climate change



Economic Growth

- Creates jobs
- ➤ Increases productivity



Accessibility & Equity

- ➤ Encourages density
- Provides multimodal choices for low-income neighborhood
- ➤ Improves commutes for transportation disadvantaged users



Bridge Preservation

- ➤ Improves structural health
- ➤ Mitigates structural risk



Pavement Preservation

➤ Reduces long-term costs



Congestion Relief

- Improves travel time reliability
- Reduces delay for all modes



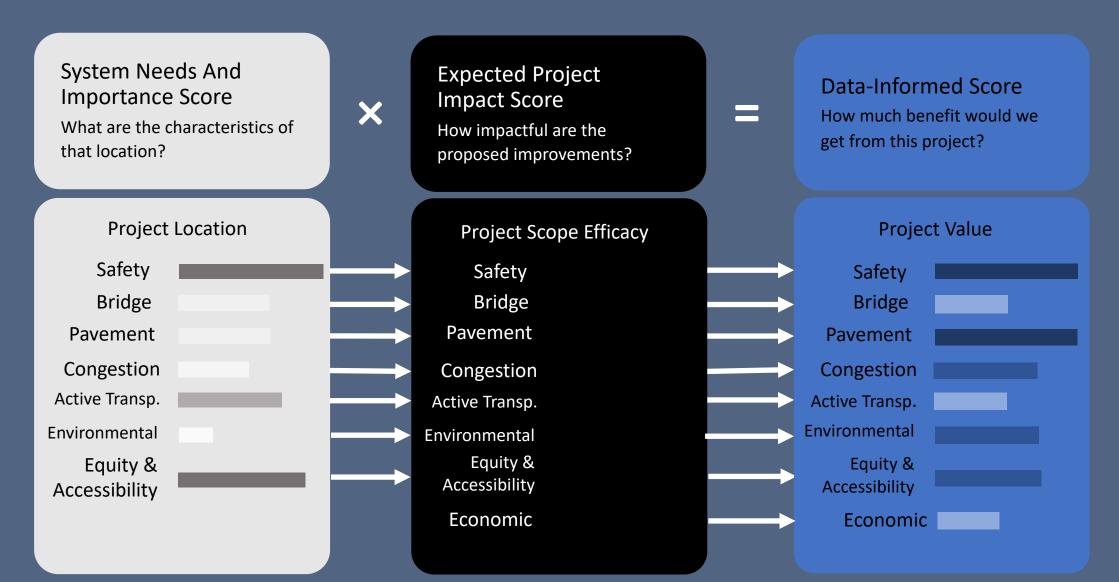
Active Transportation

- Enhances safety for bicyclists and pedestrians
- Expands network connectivity



2) Data Informed Score Calculation

Project scores are a blend of project site conditions and project impact, and their alignment to one another





Dataset Overview — Accessibility and Equity

Justice 40 Initiative "Transportation Disadvantaged" Locations

Census tracts are identified as disadvantaged in one or more categories of criteria:

IF the census tract is above the threshold for one or more environmental or climate indicators

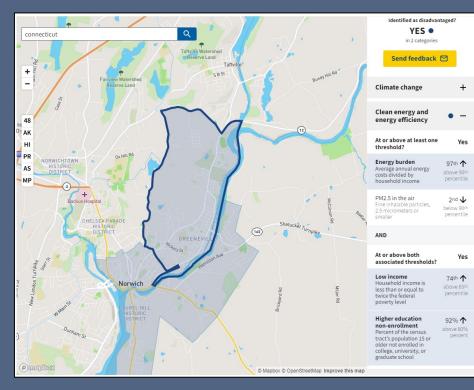
AND the census tract is above the threshold for the socioeconomic indicators

- Climate change
- Clean energy & energy efficiency
- Clean transit
- Affordable and sustainable housing
- Reduction and remediation of legacy pollution
- Critical clean water and wastewater infrastructure
- Health burdens
- Training and workforce development

At or above the 65th percentile for low income

AND

80% or more of individuals 15 or older are not enrolled in higher education



https://screeningtool.geoplatform.gov/en/methodology#12.59/41.54

263/-72.05898

Dataset Overview – Accessibility and Equity

Longitudinal Employer-Household Dynamics Origin-Destination Employment Statistics

"The Longitudinal Employer-Household Dynamics (LEHD) program is part of the <u>Center for Economic Studies</u> at the <u>U.S. Census Bureau</u>. The LEHD program produces cost effective, public-use information combining federal, state and Census Bureau data on employers and employees"

LEHD Origin-Destination Employment Statistics (LODES)

- Workplace census block
- Home census block
- Total number of jobs; split by earnings, age, and sectors

Origin-Destination (OD) File Structure			
Pos	Variable	Type	Explanation
1	w_geocode	Char15	Workplace Census Block Code
2	h_geocode	Char15	Residence Census Block Code
3	S000	Num	Total number of jobs
4	SA01	Num	Number of jobs of workers age 29 or younger ¹⁸
5	SA02	Num	Number of jobs for workers age 30 to 54 ¹⁸
6	SA03	Num	Number of jobs for workers age 55 or older ¹⁸
7	SE01	Num	Number of jobs with earnings \$1250/month or less
8	SE02	Num	Number of jobs with earnings \$1251/month to \$3333/month
9	SE03	Num	Number of jobs with earnings greater than \$3333/month
10	SI01	Num	Number of jobs in Goods Producing industry sectors
11	SI02	Num	Number of jobs in Trade, Transportation, and Utilities industry sectors
12	SI03	Num	Number of jobs in All Other Services industry sectors
13	createdate	Char	Date on which data was created, formatted as YYYYMMDD

https://lehd.ces.census.gov/data/#lodes



Project Rankings and Weights







Thank you!







Questions?

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