

# PROJECT SELECTION CRITERIA WEIGHTING

MPO Long Range Transportation Plan and State Ten Year Plan



# CRITERIA WEIGHTING PROCESS

- **Set Category Weights:**

- Total of all Categories (Safety, Mobility, etc.) = 100%
- Criterion weights should vary by scale (local, regional, inter-regional) as different aspects are important for each
- Round numbers to whole percentages

- **Set Criterion Weights**

- Total within each category = 100%
- Percentages stay the same across scales

Category	Local
Safety	XX%
State of Repair	XX%
Equity & Accessibility	XX%
Network Significance	XX%
Natural Hazards Resilience	XX%
Mobility	XX%
Support	XX%
Economic Development	XX%
	<b>100%</b>



Improving Access	XX%
Easing Goods Movement	XX%
Total	100%

# DRAFT CATEGORY WEIGHTS FROM SURVEY

- Utilized survey responses to calculate a weighted scoring
  - Share of total responses at each rank multiplied by score for each rank = Category Total Score
  - Category Total Score divided by total of all category scores = Percent Weight
  - Data error – End results were slightly different than what was presented in TAC memo

Category (Accessibility & Equity – Local Scale)	Rank								Total Score	Weight
	1	2	3	4	5	6	7	8		
Count of Responses at each rank	2	1	0	1	0	1	0	1		
Share of responses at each rank	0.33	0.17	0.00	0.17	0.00	0.17	0.00	0.17		
Score at Each Rank	8	7	6	5	4	3	2	1		
Score/Weight using % share of responses at each rank	2.67	1.17	0	0.83	0	0.5	0	0.17	<b>5.33</b>	<b>14%</b>

# DRAFT LOCAL WEIGHTING

**Focus** Safety, access, and multimodal connections within communities

- Project Types**
- Smaller scale bike/ped and transit projects
  - Highway projects on “main street” state highways and some local roads
  - Multimodal access to services for all users
  - Complete Streets and context sensitive design

Category	Local	Change from Memo
Safety	19%	+2%
State of Repair	16%	0%
Equity & Accessibility	16%	+2%
Network Significance	11%	-2%
Natural Hazards Resilience	10%	-2%
Mobility	9%	-2%
Support	9%	0%
Economic Development	10%	+2%
	100%	

# DRAFT REGIONAL WEIGHTING

Category	Regional	Change from Memo
Safety	17%	+2%
Network Significance	15%	0%
State of Repair	15%	+1%
Accessibility & Equity	14%	+1%
Natural Hazards Resilience	12%	-1%
Mobility	9%	-2%
Economic Development	9%	-2%
Support	9%	+1%
	100%	

## Focus

Multimodal connections between communities and regional activity centers

## Project Types

- Projects primarily on State Highways
- Regional Transit
- Regional scale bike/ped
- Improve access to regional activity centers
- Improve mobility
- Address safety issues

# DRAFT INTER-REGIONAL WEIGHTING

**Focus** Mobility & intermodal improvements to ensure that the region is well connected to the rest of New England and beyond.

- Project Types**
- Project Related to National Highway System
  - Reduce congestion on critical roadways
  - Freight mobility and travel time
  - Inter-regional Bus and Rail transit service
  - Address safety problems

Category	Inter-Regional	Change from Memo
Network Significance	18%	0%
Safety	17%	0%
Mobility	14%	-2%
Accessibility & Equity	13%	0%
Economic Development	9%	-2%
State of Repair	12%	+3%
Natural Hazards Resilience	8%	0%
Support	9%	+1%
	100%	

# DRAFT CATEGORY WEIGHTS FROM SURVEY

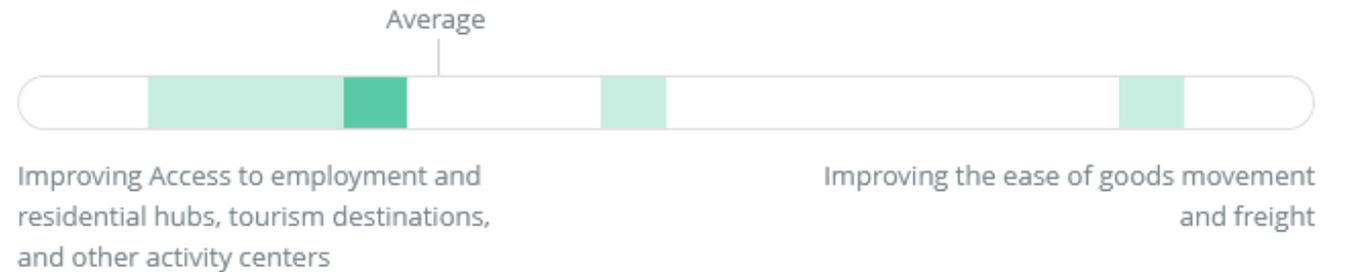
Including Percent Change from Memo (+/-X%)

Category	Local	Regional	Inter-Regional
Economic Development	10% (+2%)	9% (-2%)	9% (-2%)
Accessibility & Equity	16% (+2%)	14% (+1%)	13% (0%)
Mobility	9% (-2%)	9% (-2%)	14% (-2%)
Natural Hazard Resiliency	10% (-2%)	12% (-1%)	8% (0%)
Network Significance	11% (-2%)	15% (0%)	18% (0%)
Safety	19% (+2%)	17% (+2%)	17% (0%)
State of Repair	16% (0%)	15% (+1%)	12% (+3%)
Support	9% (0%)	9% (+1%)	9% (+1%)
	100%	100%	100%

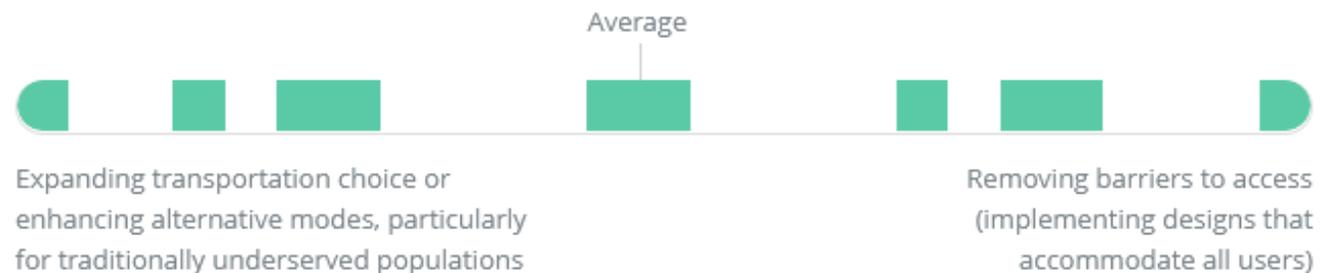
# DRAFT CRITERIA WEIGHTS FROM SURVEY

Category	Criterion	Draft Weight
Economic Development	Access to Activities	63%
	Freight Movement	37%
Equity & Accessibility	Expanding Transportation Choices	52%
	Reducing Barriers to Access	48%

In considering the criteria related to **Economic Development**, which is more important to you?



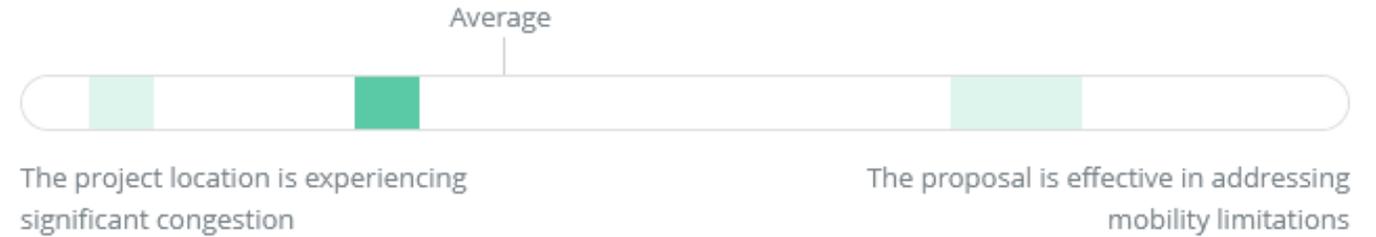
In considering **Equity, Environmental Justice, & Accessibility** criteria, which is more important to you?



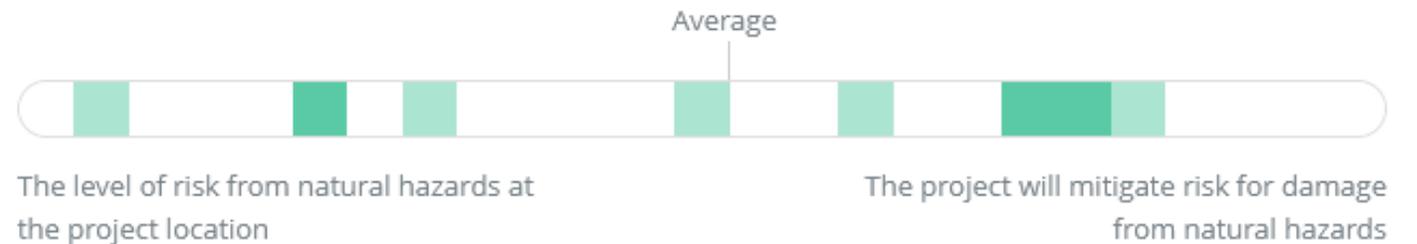
# DRAFT CRITERIA WEIGHTS FROM SURVEY

Category	Criterion	Draft Weight
Mobility	Current Congestion	60%
	Mobility Improvement	40%
Natural Hazard Resiliency	Natural Hazard Risk	48%
	Natural Hazard Mitigation	52%

In considering the **Mobility** criteria, which is more important?



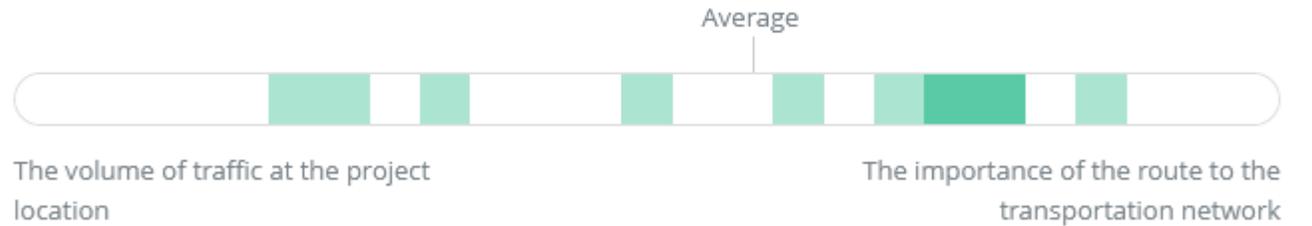
In considering **Natural Hazards Resiliency** criteria, which is more important?



# DRAFT CRITERIA WEIGHTS FROM SURVEY

Category	Criterion	Draft Weight
Network Significance	Traffic Volume	41%
	Facility Importance	59%
Safety	Safety Performance	42%
	Safety Measures	58%
State of Repair	Infrastructure Condition	52%
	Maintenance Needs	48%

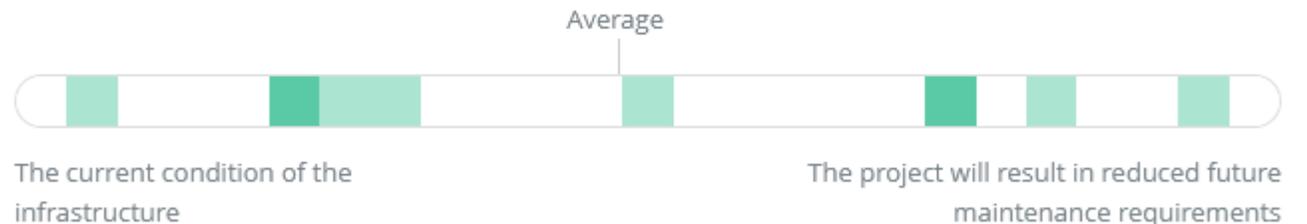
When considering **Network Significance** criteria, which is more important?



When considering **Safety** criteria, which is more important?



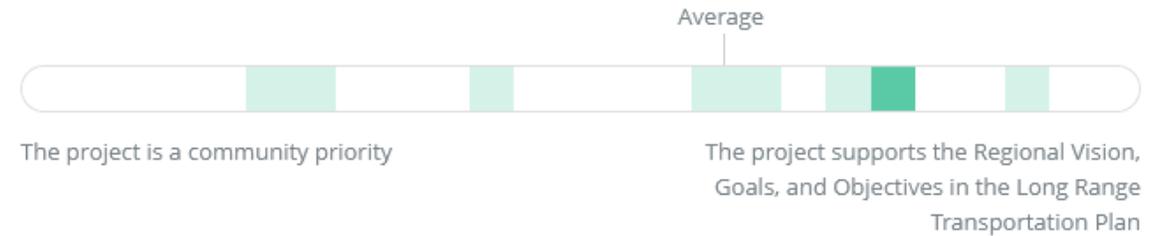
When considering **State of Repair** criteria, which is more important?



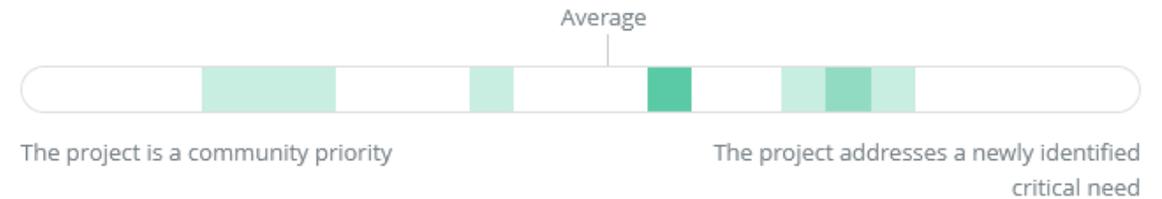
# DRAFT CRITERIA WEIGHTS FROM SURVEY

Category	Criterion	Draft Weight
Support	Local Support	28%
	Regional Support	39%
	Critical Need	33%

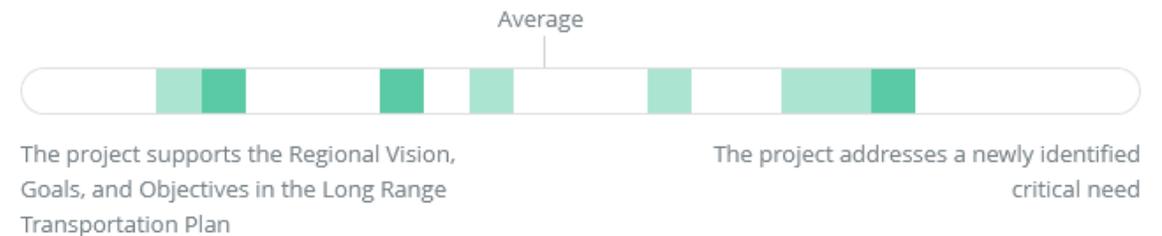
When considering **Support** criteria, which is more important?



When considering **Support** criteria, which is more important?



When considering **Support** criteria, which is more important?



# PROPOSED CRITERIA WEIGHTS FOR 2022-2023

Category	Local	Regional	Inter-Regional
<b>Economic Development</b>	<b>10%</b>	<b>9%</b>	<b>9%</b>
Access to Activities	63%	63%	63%
Freight Movement	37%	37%	37%
<b>Accessibility &amp; Equity</b>	<b>16%</b>	<b>14%</b>	<b>13%</b>
Expanding Transportation Choices	52%	52%	52%
Reducing Barriers to Access	48%	48%	48%
<b>Mobility</b>	<b>9%</b>	<b>9%</b>	<b>14%</b>
Current Congestion	60%	60%	60%
Mobility Improvement	40%	40%	40%
<b>Natural Hazard Resiliency</b>	<b>10%</b>	<b>12%</b>	<b>8%</b>
Natural Hazard Risk	48%	48%	48%
Natural Hazard Mitigation	52%	52%	52%

Category	Local	Regional	Inter-Regional
<b>Network Significance</b>	<b>11%</b>	<b>15%</b>	<b>18%</b>
Traffic Volume	41%	41%	41%
Facility Importance	59%	59%	59%
<b>Safety</b>	<b>19%</b>	<b>17%</b>	<b>17%</b>
Safety Performance	42%	42%	42%
Safety Measures	58%	58%	58%
<b>State of Repair</b>	<b>16%</b>	<b>15%</b>	<b>12%</b>
Infrastructure Condition	52%	52%	52%
Maintenance Needs	48%	48%	48%
<b>Support</b>	<b>9%</b>	<b>9%</b>	<b>9%</b>
Local Support	28%	28%	28%
Regional Support	39%	39%	39%
Critical Need	33%	33%	33%

# SUMMARY AND ACTION

- The criteria weights will be utilized to prioritize projects for the State Ten Year Plan
- July Meeting will present a prioritized list of projects and a short list from which the TAC will select projects to be sent to the engineering team for scope and cost review.
- Based on engineer recommendations, draft priority projects will be sent to NHDOT in November.
- **Recommend approval of Project Selection Criteria weights**