



CAPE COD  
COMMISSION

# Transportation Improvement Program (TIP) Project Evaluation Criteria



March 11, 2016 – Cape Cod Joint Transportation Committee

# Transportation Improvement Program (TIP)

- + The TIP is a five-year schedule of regional priority roadway, transit, and multimodal projects receiving federal funding
- + Financial constraint is required for each year
- + Critical decisions must be made on which projects receive funding

# Project Selection

Project selection involves the weighing many factors including but not limited to:

- + Project evaluation score
- + Project readiness
- + Project cost (in relation to available funding)
- + Project qualification for different funding programs
- + Greenhouse gas (GHG) impacts
- + Title VI/Equity
- + Community support

# Existing Project Evaluation Approach

**Transportation Project Evaluation - Cape Cod Commission**

sample

Score

Fund Category

**Condition**

Magnitude of pavement condition improvement

Magnitude of improvement of other infrastructure elements

TIP\_Year  Length\_mi

Cost

**Mobility**

Effect on magnitude and duration of congestion

Effect on travel time and connectivity/access

Effect on other modes using facility

Effect on regional and local traffic

**Safety & Security**

Effect on crash rate compared to state average

Effect on bicycle and pedestrian safety

Effect on transportation security and evacuation routes

**Environmental Effects**

Air Quality/climate effects, GHG/Greenhouse Gas

Water quality/supply effects; wetlands effects

Historic and cultural resource effects

Effect on wildlife habitat and endangered species

**Land Use & Economic Development**

Business effects: right-of-way, access, noise, traffic, parking, freight access, other

Sustainable development effects

Consistent with regional land-use and economic development plans

Effect on job creation

**Community Effects & Support**

Residential effects: right-of-way, noise, aesthetics, cut-through traffic, other

Effect on service to minority or low income neighborhoods - Environmental Justice

Other impact/benefits to minority or low income neighborhoods

Public, local government, legislative, and regional support

Effect on development and redevelopment of housing stock

# Potential Revision Must Consider:



**SAFETEA-LU**  
means  
Safe, Accountable, Flexible,  
Efficient Transportation Equity  
Act: A Legacy for Users

Recommendations for  
MassDOT Project  
Selection Criteria

Project Selection Advisory Council Report to the Legislature

Stephanie Pollack, Chair  
Frank DePaola  
Linda Dunlavy  
Jim Lovejoy  
David Mohler  
John M. Pourbaix  
Jeffrey B. Mullan  
Stephen Silveira

July 1, 2015

**MAP-21**  
Moving Ahead for Progress in the 21st Century

**TITLE VI**  
Civil Rights Act



Cape Cod 2016  
Regional Transportation Plan  
2016-2040



Image Sources: [http://vvta.org/wp-content/pages/TITLEVI\\_C.jpg](http://vvta.org/wp-content/pages/TITLEVI_C.jpg); <http://blog.mass.gov/wp-content/uploads/legacy-images/transportation/6a0105367f07d8970b017ee6595077970d-pi.jpg>; [https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcRUtpe3gAVfSy\\_WGQOFkVrYUicLYnnjQFjNeq4NRR18Uvak4](https://encrypted-tbn2.gstatic.com/images?q=tbn:ANd9GcRUtpe3gAVfSy_WGQOFkVrYUicLYnnjQFjNeq4NRR18Uvak4); <https://www.massdot.state.ma.us/portals/0/Images/GreenDOT/GreenDOTLogo.jpg>; [http://acronymsandslang.com/acronym\\_image/337/7301121b6668811573421d1b8a6c5f10.jpg](http://acronymsandslang.com/acronym_image/337/7301121b6668811573421d1b8a6c5f10.jpg); <http://www.massdot.state.ma.us/portals/8/docs/traffic/shsp/shspseptember2013.pdf>; [https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKewijoq3EwqLLAhUCzmMKHWVIAMwQjRwIbW&url=http%3A%2F%2Fwww.fta.dot.gov%2FFAST.html&bvm=bv.115946447,d.cGc&psig=AFQjCNEL\\_yzWxgvI9Un06DHMRPUfuHRcQ&ust=1457025869662361](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKewijoq3EwqLLAhUCzmMKHWVIAMwQjRwIbW&url=http%3A%2F%2Fwww.fta.dot.gov%2FFAST.html&bvm=bv.115946447,d.cGc&psig=AFQjCNEL_yzWxgvI9Un06DHMRPUfuHRcQ&ust=1457025869662361)

Note: Not intended to be an exhaustive list. Other planning requirements, legislations, and executive orders also apply.

# Project Evaluation Criteria Revision Process

Draft developed by staff

Winter 2015/2016

CCJTC subcommittee reviewed  
draft and provided feedback

February 12, 2016

Staff revised draft and scored  
sampling of projects

February/March 2016

CCJTC review and  
recommendation

March 11, 2016

Cape Cod MPO review and  
potential vote

March 20, 2016

# DRAFT Project Evaluation Criteria (see details in handout)

Category	Criteria	Points (out of 100)
<b>System Preservation and Modernization</b>	<ul style="list-style-type: none"><li>• Pavement and signal equipment improvement</li><li>• Sidewalks and other infrastructure enhancement</li><li>• Use of modern technology</li></ul>	<b>35</b>
<b>Mobility</b>	<ul style="list-style-type: none"><li>• Motorist congestion</li><li>• Non-motorist congestion</li><li>• Connectivity / access</li><li>• Mobility / accommodation of non-motorists</li></ul>	<b>10</b>
<b>Safety</b>	<ul style="list-style-type: none"><li>• Motorist crash history and anticipated safety impact</li><li>• Non-motorist crash history and anticipated safety impact</li></ul>	<b>10</b>
<b>Economic Impact</b>	<ul style="list-style-type: none"><li>• Access to or within a regionally-designated economic development area</li><li>• Access to or within a locally-designated business district</li><li>• Connections between housing, job, cultural centers, and essential services</li></ul>	<b>10</b>
<b>Environmental and Health Effects</b>	<ul style="list-style-type: none"><li>• Wetlands, wildlife, or other resource protection</li><li>• Water quality through stormwater management and treatment</li><li>• Air quality / GHG emission</li><li>• Coastal Resiliency / Sea Level Rise Vulnerability</li><li>• Cultural resources or open space</li><li>• Healthy Transportation Options</li></ul>	<b>10</b>
<b>Cost Effectiveness</b>	<ul style="list-style-type: none"><li>• Project cost per user</li></ul>	<b>15</b>
<b>Policy Support</b>	<ul style="list-style-type: none"><li>• Regional plans/policies</li><li>• Local plans/policies</li><li>• State or MassDOT Policies and goals</li></ul>	<b>10</b>

# THANK YOU

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