



# HRTPO PRIORITIZATION TOOL OVERVIEW

Presented to Freight Transportation Advisory Committee (FTAC)

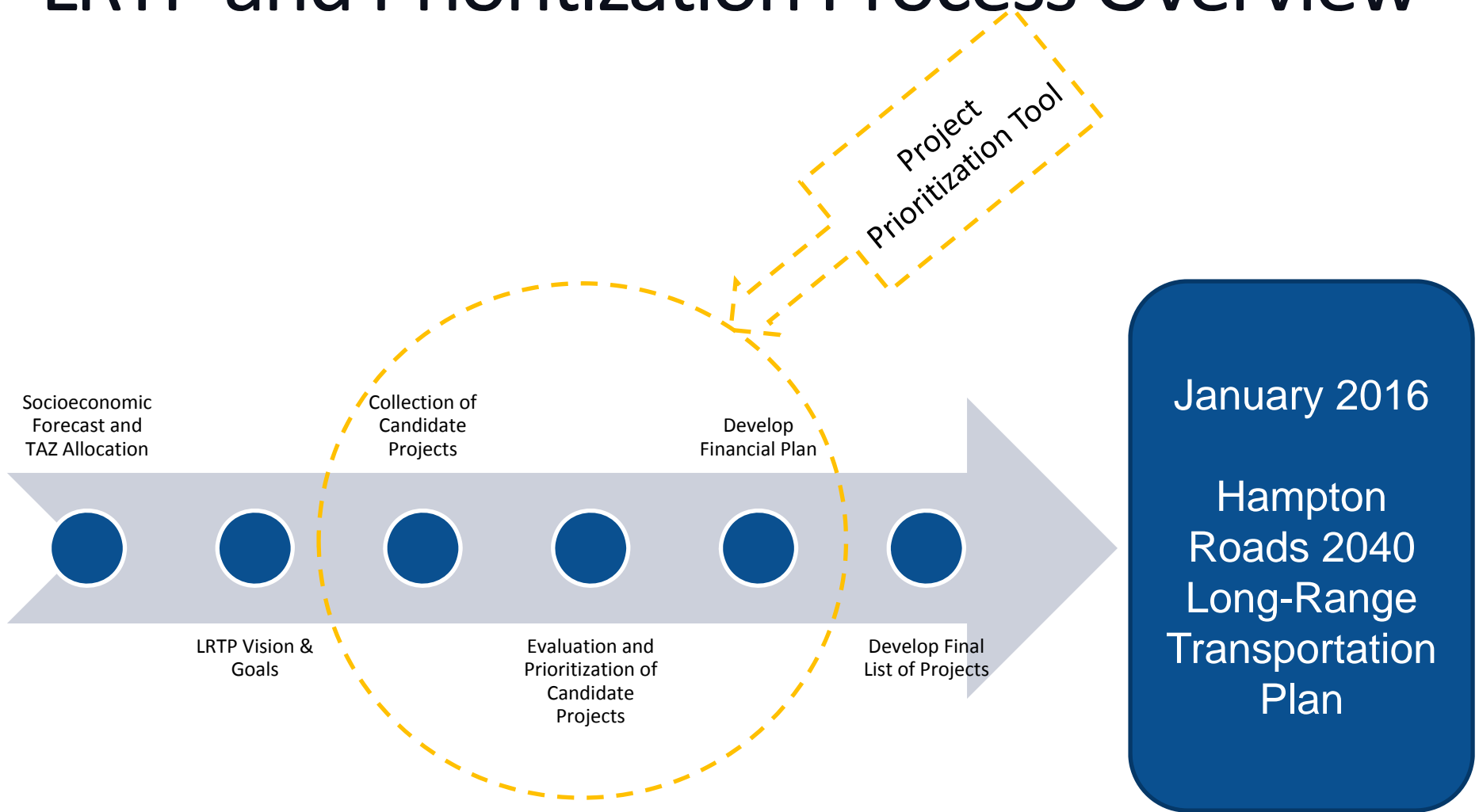
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*Navigating the Future to* **2040**

# L RTP and Prioritization Process Overview



# Prioritization Tool Overview

Developed in 2010

Excel based tool

Three components: Project Utility, Economic Vitality, Project Viability

Projects evaluated based on category (highway, bridge/tunnel, transit, etc.)



## Project Categories

Highway

Bridge/Tunnel

Intermodal

Transit

Systems and Demand  
Management

Active Transportation

## Project Prioritization

### Project Utility (Project Effectiveness)

- Congestion
- System Continuity and Connectivity
- Safety and Security
- Cost Effectiveness
- Regional Significance

### Economic Vitality (Potential for Economic Gain)

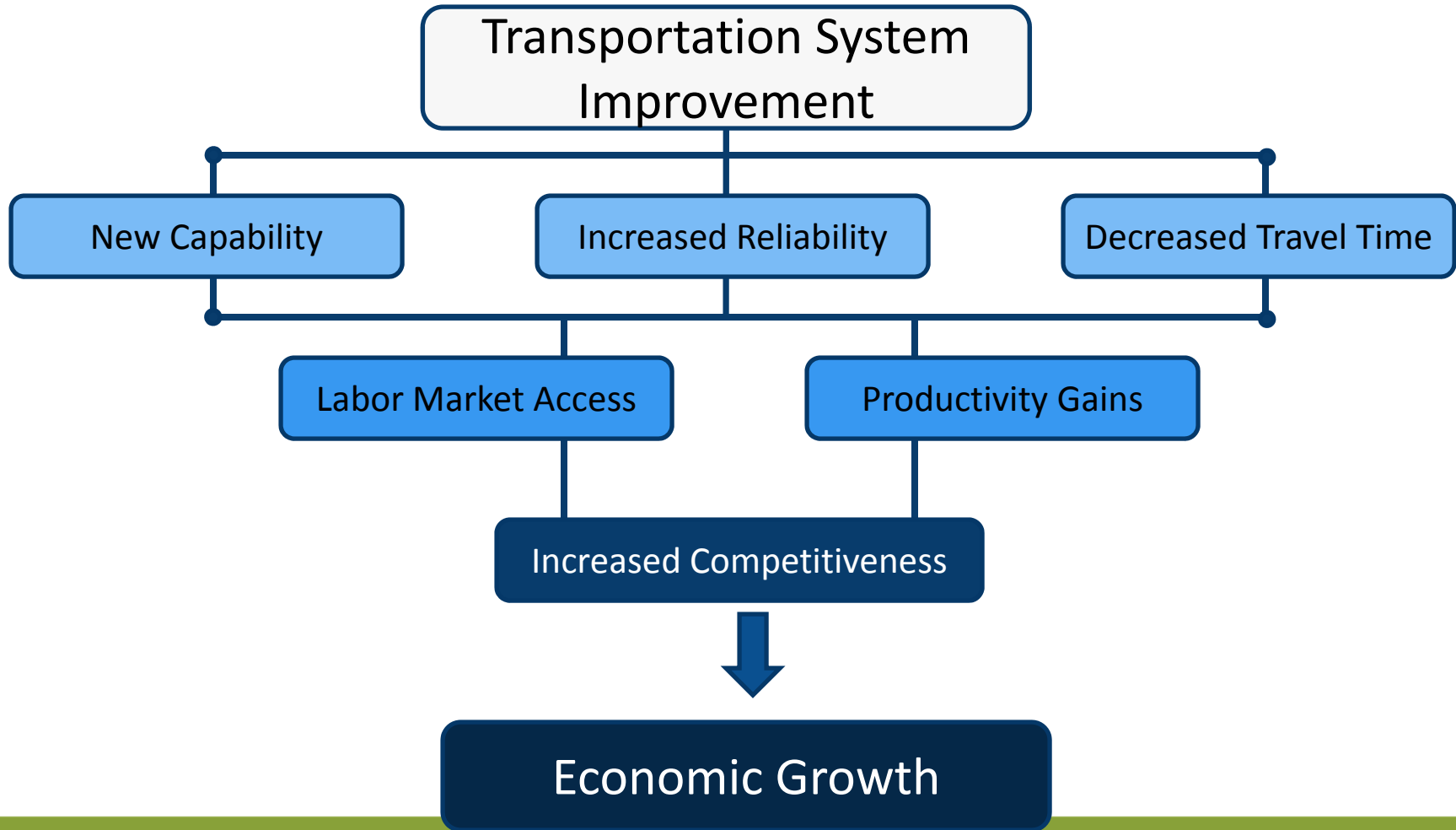
- Total Reduction in Travel Time
- Address the Needs of Basic Sector Industries
- Labor Market Access
- Increase Opportunity
- Impact on Truck Movement

### Project Viability (Project Readiness)

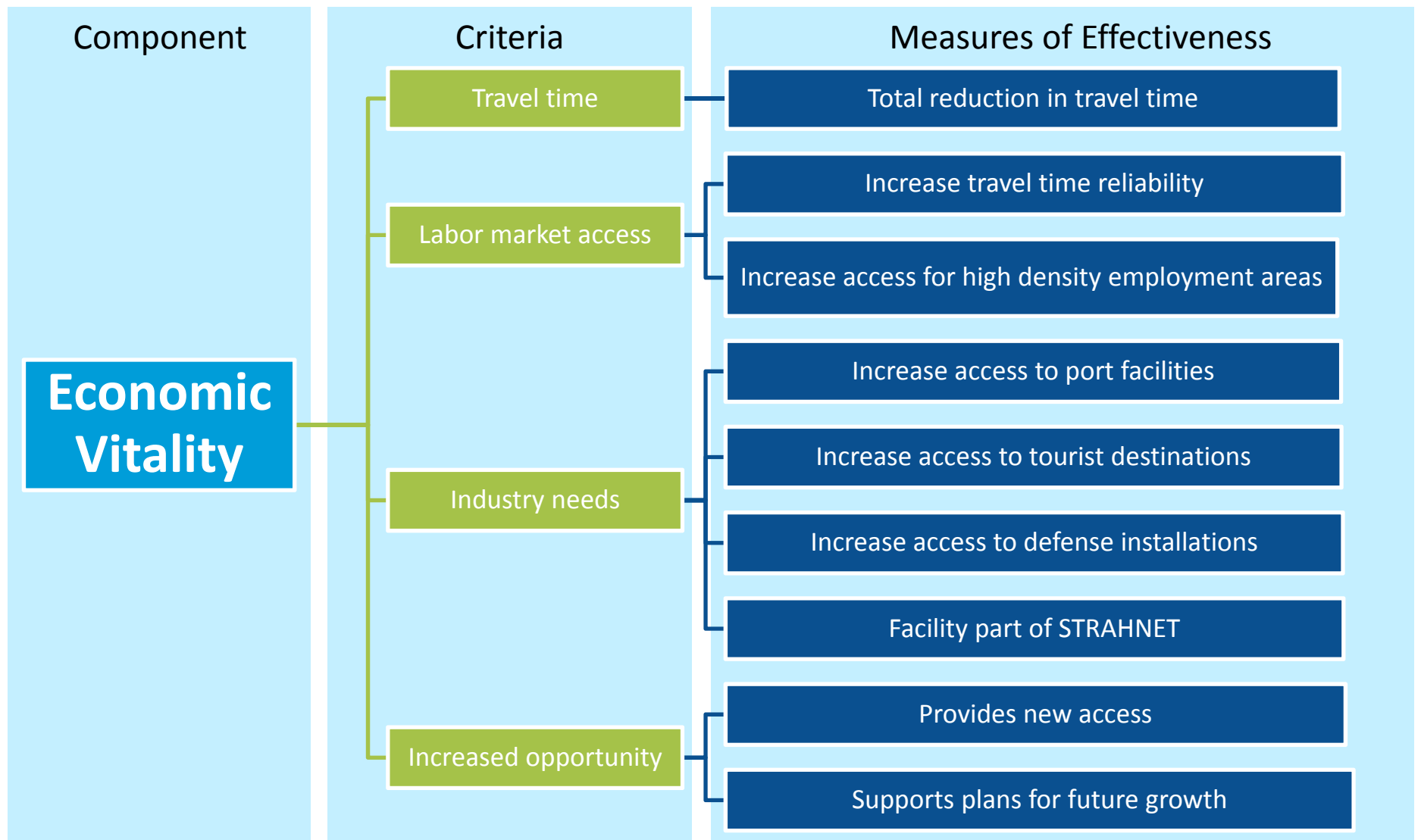
- % Funding Committed
- % Design Complete
- Prior Planning Commitment
- NEPA Documents/Decisions

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# Flow chart



# Prioritization Tool: Sample Criteria/MOEs



# Prioritization Tool Weighting Factors

Highway Projects Weighting Factors	
Criteria and Subcriteria	Weighting
<b>PROJECT UTILITY</b>	
<b>Congestion Level:</b>	<b>30.00</b>
% Reduction in Existing and Future V/C Ratios (Daily Delay)	10.00
Existing V/C Ratio	10.00
Impact to Nearby Roadways	10.00
<b>System Continuity and Connectivity</b>	<b>25.00</b>
<b>Safety and Security:</b>	<b>15.00</b>
Crash Ratio	8.00
Improvement to Incident Management or Evacuation Routes	7.00
<b>Cost Effectiveness (Cost/VMT)</b>	<b>15.00</b>
<b>Land Use/Future Development Compatibility</b>	<b>10.00</b>
<b>Modal Enhancements:</b>	<b>5.00</b>
Enhances Other Categories	3.00
Improves Vehicular Access	2.00
<b>PROJECT UTILITY TOTAL</b>	<b>100.00</b>
<b>PROJECT VIABILITY</b>	
Percent of Additional Funding (sliding scale 0-50)	50.00
Prior Commitment (project included in the currently adopted LRTP?)	10.00
Percentage of Project Design Complete (sliding scale 1-10)	10.00
Environmental Documents Complete	15.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
Additional Environmental Permits Obtained	5.00
<b>PROJECT VIABILITY TOTAL</b>	<b>100.00</b>
<b>ECONOMIC VITALITY</b>	
<b>Total Reduction in Travel Time</b>	<b>30.00</b>
<b>Labor Market Access</b>	<b>20.00</b>
Increase Travel Time Reliability	10.00
Increased Access for High Density Employment Areas	10.00
<b>Addresses the Needs of Basic Sector Industries</b>	<b>30.00</b>
Increases Access for Port Facilities	10.00
Increases Access to Tourist Destinations	10.00
Increases Access for Defense Installations	6.00
Facility part of STRAHNET	4.00
<b>Increased Opportunity</b>	<b>20.00</b>
Provides New of Increased Access	10.00
Supports Plans for Future Growth	10.00
<b>ECONOMIC VITALITY TOTAL</b>	<b>100.00</b>

Transit Projects Weighting Factors	
Criteria and Subcriteria	Weighting
<b>PROJECT UTILITY</b>	
Existing Usage and/or Prospective Ridership, Coverage Area/ Population Served	20.00
<b>System Continuity and Connectivity:</b>	<b>20.00</b>
Regional Significance	9.00
Improves access to employment and population centers	11.00
<b>User Benefit (Annual Travel Time Savings per Rider)</b>	<b>15.00</b>
<b>Land Use/Future Development Compatibility</b>	<b>15.00</b>
<b>Cost Effectiveness ((Annualized Capital Costs + Annualized Operating Costs)/Annual Riders)</b>	<b>15.00</b>
<b>Air Quality/Emissions Reduction (Tons of emissions (HC and NOx) reduced per year)</b>	<b>10.00</b>
<b>Enhances Other Categories</b>	<b>5.00</b>
<b>PROJECT UTILITY TOTAL</b>	<b>100.00</b>
<b>PROJECT VIABILITY</b>	
Percent of Additional Funding (sliding scale 0-50)	50.00
Prior Commitment (project included in the currently adopted LRTP or documented by Transit Agency?)	10.00
Percentage of Project Design Complete (sliding scale 1-10)	10.00
Environmental Documents Complete	15.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
Additional Environmental Permits Obtained	5.00
<b>PROJECT VIABILITY TOTAL</b>	<b>100.00</b>
<b>ECONOMIC VITALITY</b>	
<b>Labor Market Access</b>	<b>45.00</b>
Increases Access for Major Employment Centers	20.00
Increases Travel Time Reliability	10.00
Increases Frequency of Service	10.00
Provides Access to Institutions of Higher Education	5.00
<b>Addresses the Needs of Basic Sector Industries</b>	<b>20.00</b>
Provides or Improves Access for Defense Installations	10.00
Provides/Improves Access for Tourist Destinations	10.00
<b>Increased Opportunity - Provides New Access to the Network</b>	<b>20.00</b>
Provides New Access to the Network	5.00
Supported by Plans for Increased Density and Economic Activity	15.00
<b>Economic Distress Factors</b>	<b>15.00</b>
Provides Access to Areas with High Unemployment	5.00
Provides Access to Low Income Areas	10.00
<b>ECONOMIC VITALITY TOTAL</b>	<b>100.00</b>

# Prioritization Tool Weighting Factors

Interchange Projects Weighting Factors	
Criteria and Subcriteria	Weighting
<b>PROJECT UTILITY</b>	
<b>Congestion Level:</b>	<b>30.00</b>
Existing Queue Conditions: Number of Interstate/Arterial Approaches From Where Queues Currently Form	10.00
Queue Improvements: Number of Interstate/Arterial Approaches Improved	10.00
Number of Movements Added or Improved	10.00
<b>System Continuity and Connectivity</b>	<b>25.00</b>
<b>Safety and Security:</b>	<b>15.00</b>
Crash Ratio	8.00
Improvement to Incident Management or Evacuation Routes	7.00
<b>Cost Effectiveness (Cost/VMT)</b>	<b>15.00</b>
<b>Land Use/Future Development Compatibility</b>	<b>10.00</b>
<b>Modal Enhancements:</b>	<b>5.00</b>
Enhances Other Categories	3.00
Improves Vehicular Access	2.00
<b>PROJECT UTILITY TOTAL</b>	<b>100.00</b>
<b>PROJECT VIABILITY</b>	
Percent of Additional Funding (sliding scale 0-50)	50.00
Prior Commitment (project included in the currently adopted LRTP?)	10.00
Percentage of Project Design Complete (sliding scale 1-10)	10.00
Environmental Documents Complete	15.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
Additional Environmental Permits Obtained	5.00
<b>PROJECT VIABILITY TOTAL</b>	<b>100.00</b>
<b>ECONOMIC VITALITY</b>	
<b>Total Reduction in Travel Time</b>	<b>30.00</b>
<b>Labor Market Access</b>	<b>20.00</b>
Increase Travel Time Reliability	10.00
Increased Access for High Density Employment Areas	10.00
<b>Addresses the Needs of Basic Sector Industries</b>	<b>30.00</b>
Increases Access for Port Facilities	10.00
Increases Access to Tourist Destinations	10.00
Increases Access for Defense Installations	6.00
Facility part of STRAHNET	4.00
<b>Increased Opportunity</b>	<b>20.00</b>
Provides New of Increased Access	10.00
Supports Plans for Future Growth	10.00
<b>ECONOMIC VITALITY TOTAL</b>	<b>100.00</b>

Bridge & Tunnel Projects Weighting Factors	
Criteria and Subcriteria	Weighting
<b>PROJECT UTILITY</b>	
<b>Congestion Level:</b>	<b>30.00</b>
% Reduction in Existing and Future V/C Ratios (Daily Delay)	10.00
Existing V/C Ratio	10.00
Impact to Nearby Roadways	10.00
<b>Infrastructure Condition (Bridge Sufficiency, Tunnel Condition, Obsolescence)</b>	<b>20.00</b>
<b>System Continuity and Connectivity</b>	<b>10.00</b>
<b>Safety and Security:</b>	<b>10.00</b>
Crash Ratio	4.50
Improvement to Incident Management or Evacuation Routes	3.00
Failure Impact (Impact of Detour to Alternate Crossing)	2.50
<b>Cost Effectiveness (Cost/VMT)</b>	<b>15.00</b>
<b>Land Use/Future Development Compatibility</b>	<b>10.00</b>
<b>Modal Enhancements:</b>	<b>5.00</b>
Improves Vehicular Access	2.00
Enhances Other Categories	1.50
Provides Continuous Maritime Crossing	1.50
<b>PROJECT UTILITY TOTAL</b>	<b>100.00</b>
<b>PROJECT VIABILITY</b>	
Percent of Additional Funding (sliding scale 0-50)	50.00
Prior Commitment (project included in the currently adopted LRTP?)	10.00
Percentage of Project Design Complete (sliding scale 1-10)	10.00
Environmental Documents Complete	15.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
Additional Environmental Permits Obtained	5.00
<b>PROJECT VIABILITY TOTAL</b>	<b>100.00</b>
<b>ECONOMIC VITALITY</b>	
<b>Total Reduction in Travel Time</b>	<b>30.00</b>
<b>Labor Market Access</b>	<b>20.00</b>
Increase Travel Time Reliability	10.00
Increased Access for High Density Employment Areas	10.00
<b>Addresses the Needs of Basic Sector Industries</b>	<b>30.00</b>
Increases Access for Port Facilities	10.00
Increases Access to Tourist Destinations	10.00
Increases Access for Defense Installations	6.00
Facility part of STRAHNET	4.00
<b>Increased Opportunity</b>	<b>20.00</b>
Provides New of Increased Access	10.00
Supports Plans for Future Growth	10.00
<b>ECONOMIC VITALITY TOTAL</b>	<b>100.00</b>