Evaluation of Performance Measures in Long-Range Transportation Plan Analyses

Project Update

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TPB Technical Committee
Agenda Item 9
July 10, 2020
Presentation Overview

• Review project charge
• Overview of project status
• Draft Planning Policy Focus Areas
  • Gaps in what we measure
• Process for considering new measures and evaluating their feasibility
• Next steps
Performance Evaluation

• Federal requirements:
  • Inform the investment needs to relieve congestion, improve regional mobility and accessibility, and attain performance targets;
  • Ensure adherence to regional motor vehicle emissions budget
  • Conduct Environmental Justice Analysis

• TPB looks to:
  • Assess progress towards regional goals and specific performance targets;
  • Inform transportation investment decision making;
  • Coordinate regional transportation, land use, and environment planning activities
Project Charge and Purpose

• Review existing measures used to evaluate system performance against TPB policy framework
• Identify planning policy focus areas and the gaps in what we measure
• Identify and develop methodologies for a new set of performance measures that will be used to conduct the long-range transportation plan (LRTP) system performance analysis
## Project Status

<table>
<thead>
<tr>
<th>Task</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Inventory existing performance measures</td>
<td>Complete</td>
</tr>
<tr>
<td>Identify planning policy focus areas</td>
<td>Ready for comment</td>
</tr>
<tr>
<td>Map existing measures against planning policy focus areas</td>
<td>Ready for comment</td>
</tr>
<tr>
<td>Develop criteria for selecting performance measures</td>
<td>Ready for comment</td>
</tr>
<tr>
<td>Identify enhancements to existing and potential new performance measures</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Select performance measures and develop methodologies, if necessary</td>
<td>Forthcoming</td>
</tr>
<tr>
<td>TPB staff tests the new performance measures</td>
<td>Forthcoming</td>
</tr>
<tr>
<td>Adopt enhanced performance measures to evaluate the 2022 Visualize 2045 update</td>
<td>Q1-Q2 2022</td>
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Existing Performance Measures (PMs)

- LRTP Performance Analysis 18 PMs
- Regional Air Quality Conformity Analysis 2 PMs
- Environmental Justice Analysis 10 PMs
- Congestion Management Report 6 PMs
- Performance Based Planning and Programming 21 PMs
- Long-Range Plan Task Force 18 PMs
Review of Policy Framework

We considered: what are key terms and concepts found in these documents?

Planning Policy Focus Areas (draft)
<table>
<thead>
<tr>
<th>Accessibility</th>
<th>Affordability</th>
<th>Air Quality Conformity</th>
<th>Comprehensive Multimodal System</th>
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<tbody>
<tr>
<td>Connectivity</td>
<td>Economy</td>
<td>Emerging Mobility and Tech</td>
<td>Environment / Resiliency/ Sustainability</td>
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<tr>
<td>Equity</td>
<td>Land Use</td>
<td>Mobility</td>
<td>Operational Efficiency</td>
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<tr>
<td>Public Health</td>
<td>Reliability</td>
<td>Safety</td>
<td>State of Good Repair</td>
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Planning Policy Focus Area – for Research

- Accessibility
- Affordability
- Comprehensive Multimodal System
- Connectivity
- Environmental / Resiliency
- Equity
- Land Use
- Public Health
- Safety
Consideration for future measures

- Does it effectively measure additional policy areas?
- What would be the level of effort, is the data available, and is the method replicable with existing resources?
- Does the measure and method suggest what it intends to analyze?
- Does a measure analyze the impact of the plan or can it provide context?
- Historic trend, point in time, or model?
Questions and Discussion

- General reaction on information provided up to this point?
- Additional considerations for staff to include?
Example: Existing Accessibility Measure

Regional Change in Access to Jobs by Transit

Change in Access to Jobs by Auto
Example: Multimodal Accessibility Index

- Concept: The more travel options available within a set travel time, the higher the score.
- Variations: Different destinations, different time criteria, number of modes
Example: Multimodal Accessibility Index

- Data availability?
- Level of effort?
- What does the measure suggest?
- Does it respond to policy area(s)?
Next Steps

• Continue to review, test, and analyze feasibility of new measures
• Internal vetting and discussion process for new proposed measures
• Testing with existing data (esp. Visualize 2045) and explore new/improved data needs
• Update the TPB Technical Committee in Fall 2020