

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

Task	Status
Inventory existing performance measures	Complete
Identify planning policy focus areas	Ready for comment
Map existing measures against planning policy focus areas	Ready for comment
Develop criteria for selecting performance measures	Ready for comment
Identify enhancements to existing and potential new performance measures	Ongoing
Select performance measures and develop methodologies, if necessary	Forthcoming
TPB staff tests the new performance measures	Forthcoming
Adopt enhanced performance measures to evaluate the 2022 Visualize 2045 update	Q1-Q2 2022



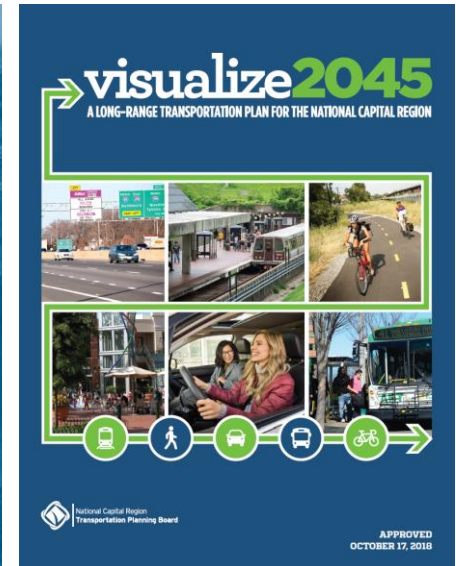
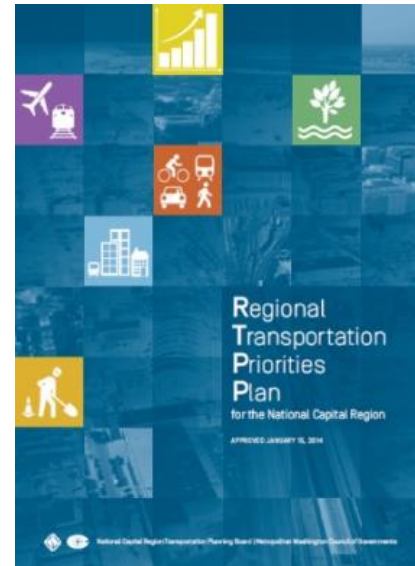
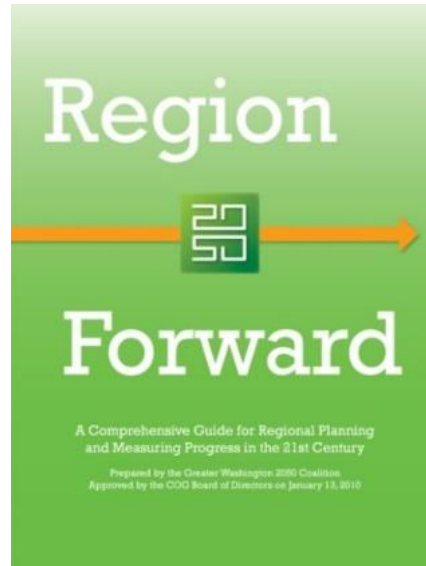
Existing Performance Measures (PMs)

- 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)



Planning Policy Focus Area Universe

Accessibility	Affordability	Air Quality Conformity	Comprehensive Multimodal System
Connectivity	Economy	Emerging Mobility and Tech	Environment / Resiliency/ Sustainability
Equity	Land Use	Mobility	Operational Efficiency
Public Health	Reliability	Safety	State of Good Repair



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?



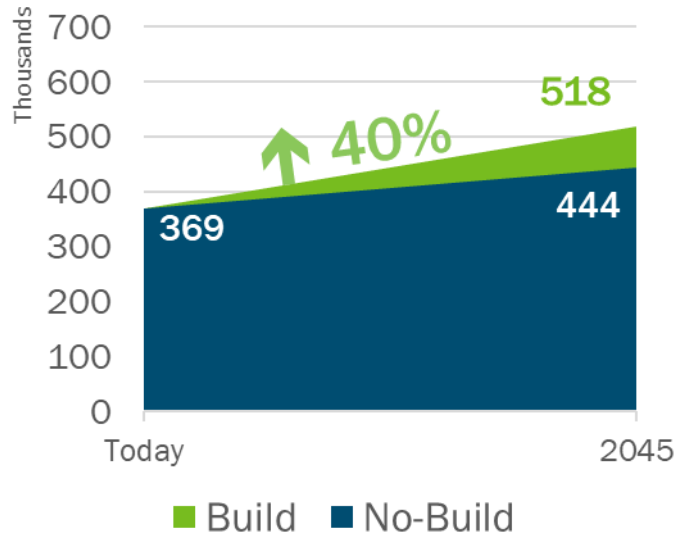
Questions and Discussion

- General reaction on information provided up to this point?
- Additional considerations for staff to include?

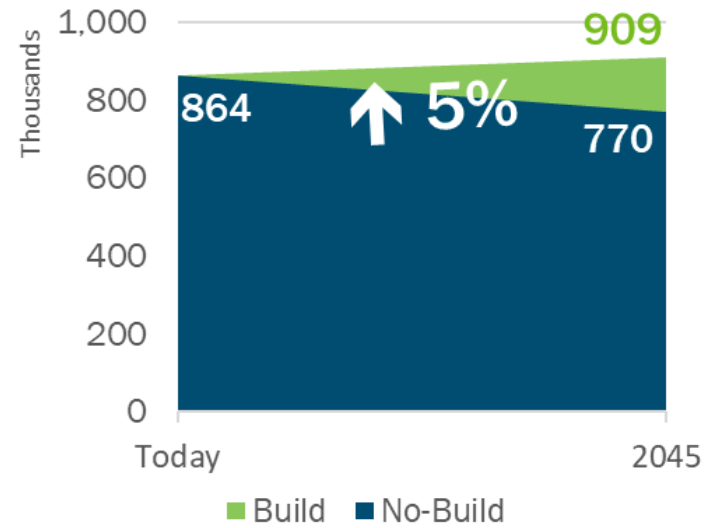


Example: Existing Accessibility Measure

Regional Change in Access to Jobs by Transit

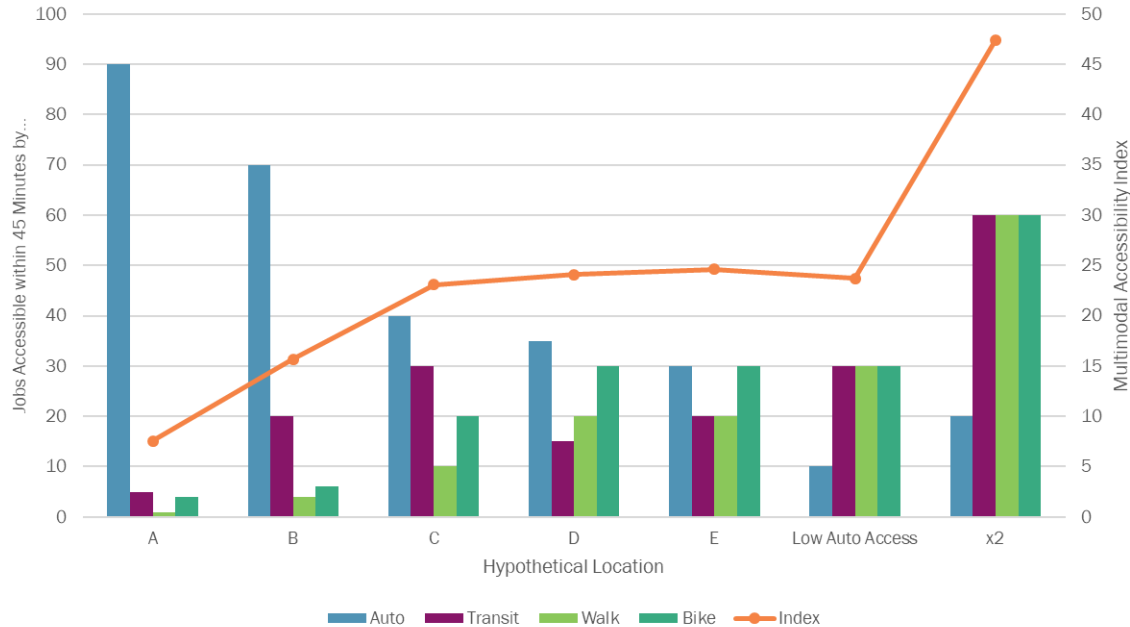


Change in Access to Jobs by Auto



Example: Multimodal Accessibility Index

Accessibility by Mode and Index Score

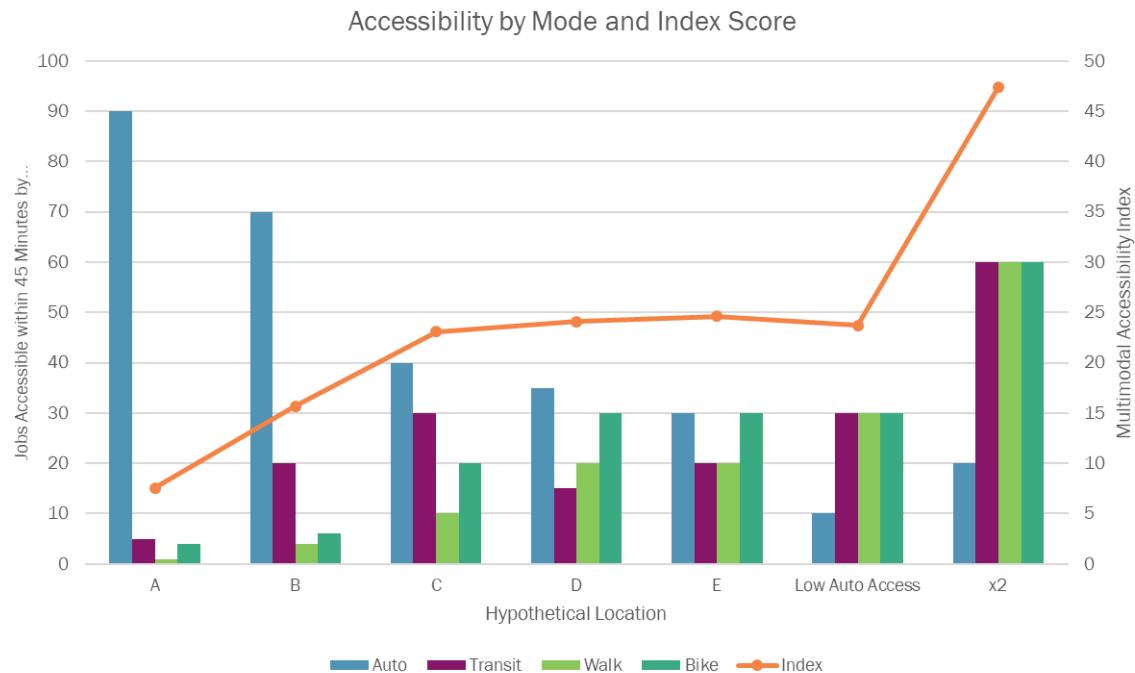


- Concept: The more travel options available within a set travel time, the higher the score.
- Variations: Different destinations, different time criteria, number of modes



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



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