

November 21, 2018

# Regional Solicitation Before-and-After Study

Transportation Advisory Board



# Today's Talking Points

- Study Team
- Study Purpose & Objectives
- Study Process
  - Overview of the Performance Based Measures
  - Schedule
- Discussion

# Study Team

**SRF Consulting Group, Inc. and Hoisington Koegler Group (Inc.)**



Marie Cote, PE | Project Principal/Manager | SRF



Lance Bernard | Deputy Project Manager | HKGi

# Project Management Team

- Katie White, Project Manger | Metropolitan Council
- Joe Barbeau | Metropolitan Council
- Steve Peterson | Metropolitan Council
- Cole Hinker | Metropolitan Council
- Steve Elmer | Metropolitan Council
- Bradley Estochen | MnDOT
- Lars Impola | MnDOT

# Study Purpose

The purpose of this study is to document the regional benefits achieved through the Regional Solicitation program and Highway Safety Improvement Program (HSIP). This will be achieved by using a performance-based approach that evaluates the “before-and-after” conditions associated with types of projects.

# Study Process

- Determine the “Before and After” conditions for types of built projects that have received funds dating back to 2007:
  - 45 +/- Roadway Projects
  - 25 +/- Transit Projects
  - 40 +/- Ped/Bike Projects
  - 30 +/- HSIP Projects
- Document the cumulative benefits
- Use a performance based approach to document the benefits
  - See study framework for more information



# Roadway Performance Measures

- Safety
  - Document the safety benefits by evaluating crash data
  - Utilize MnCMAT data
- Congestion
  - Document the congestion benefits by evaluating traffic volumes at key intersections
  - Using 2018 intersection volumes, conduct a no build and build condition Synchro analysis to determine congestion benefits

# Transit Performance Measures

- Ridership
  - Document the transit benefits by evaluating ridership data
    - Focus on projects that have been operating for 3+years
  - Document the service types (e.g., express routes, number of busses or park and ride spaces) that have been added to the system



# Ped/Bike Performance Measures

- Safety
  - Document the safety benefits by evaluating crash data
- Miles & Connectivity
  - Document the number of miles added to the system and contribution to closing the gaps in the regional or local trail network
- Density of Destinations
  - Document the number of desirable destinations (e.g., jobs, homes, recreation, shopping, etc.) connected/linked by the projects

# HSIP Performance Measures

- Safety
  - Document the safety benefits by evaluating crash data
  - Utilize MnCMAT data
  - Only focus on “reactive” projects
  - Document the benefits by the types of projects/improvements

# Other Study Efforts

- Peer Review of other MPOs
- Assess the scoring, application categories, prioritization criteria and metrics to determine what modifications can be made to address connected/autonomous vehicles, shared mobility and other technologies

# Reminder: Findings from the performance measures will help address the study objectives:

- Review existing and proposed conditions at the time of the application submittal and compare post construction conditions to determine if the region received the level of benefits identified in the project application by project type.
- Identify if there are specific types of projects that resulted in the highest level of safety or delay benefits per dollar invested.
- Determine if there are any scoring measure modifications or lessons learned for future solicitations.
- Identify how the Regional Solicitation and HSIP prioritization criteria can better align with new federal performance targets.

# Schedule

	2018						2019			
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
1. Project Management Team (PMT) Meetings	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	
2. Study Meetings										
Technical Steering Committee (TSC) <sup>1</sup>			<b>T</b>		<b>T</b>		<b>T</b>		<b>T</b>	
TAB, TAC, Met Council TC, CMPAC (up to six) <sup>2</sup>										
Meeting Assistance (up to six)										
3. Before and After Analysis										
4. Cost Effective Outcomes										
5. Scoring Measure Improvements										
6. Performance Measures										
7. Implementation of Technologies										
8. Executive Summary, Final Report, Summary PowerPoint										

<sup>1</sup> TAC funding and programming (act as TSC) meets the third Thursday of every month

<sup>2</sup> TAB meets the third Wednesday, TAC meets the first Wednesday and Met Council TC meets the second and fourth Monday of every month.

**P** PMT Meetings    **T** TSC Meetings

# Discussion