Principal Arterial Intersection Conversion Study



Transportation Advisory Board



Presentation Overview

- Background Need for Study, Objectives
- Phase I Screening (Completed)

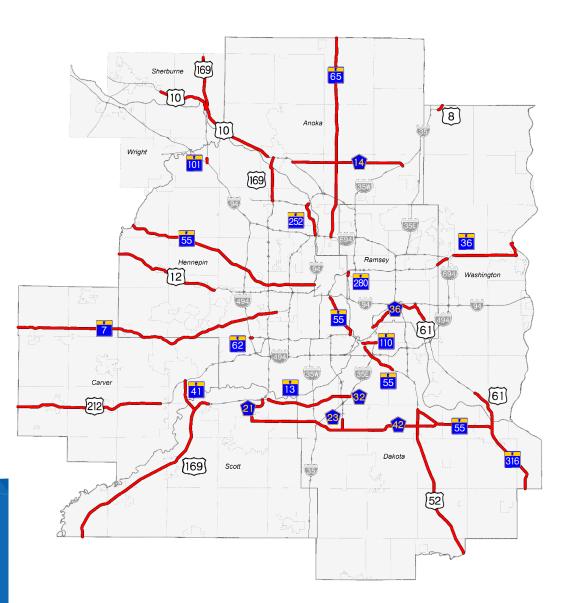
 More than 370 intersections initially considered
- Phase II (Ongoing)

- Approximately 100 intersections



Background – Need for Study

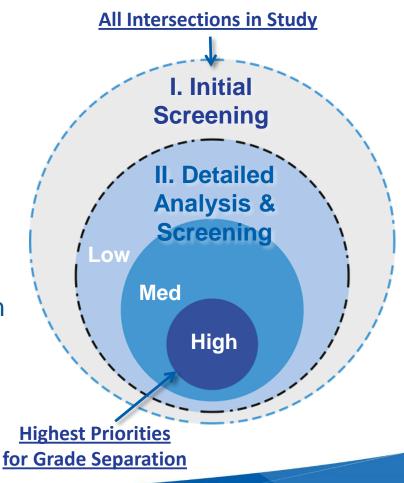
- Identify regional priorities given high demand for grade-separations and limited funding
- Provide input to funding decisions
- First-of-its-kind study; identified in Work
 Program of 2040 TPP





Study Process Overview

- Phase I. Initial Screening
 - Which intersections are not candidates for grade separation at this time?
- Phase II. Detailed Analysis & Screening
 - Set priorities for future grade separations – Low, Medium, High
 - Consider best fit for design solutions (cost effectiveness)

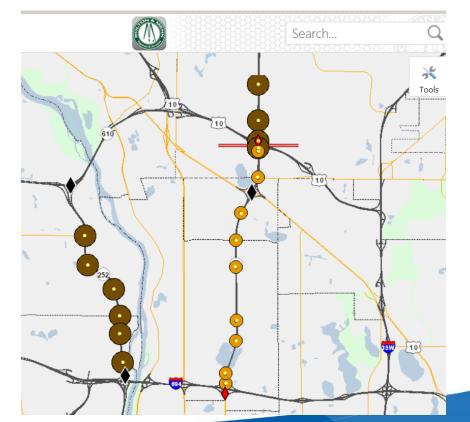






Phase I Screening Process

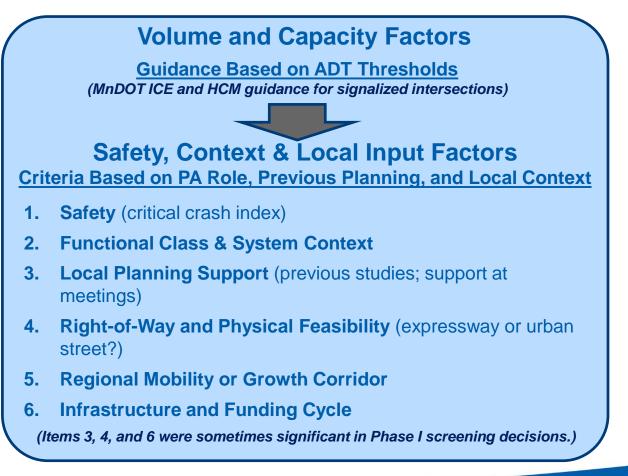
- 8 local outreach meetings (December 2015):
 - Technical and contextual screening criteria
 - Specific corridors, intersections, and data
- Local input helped refine the Phase I criteria





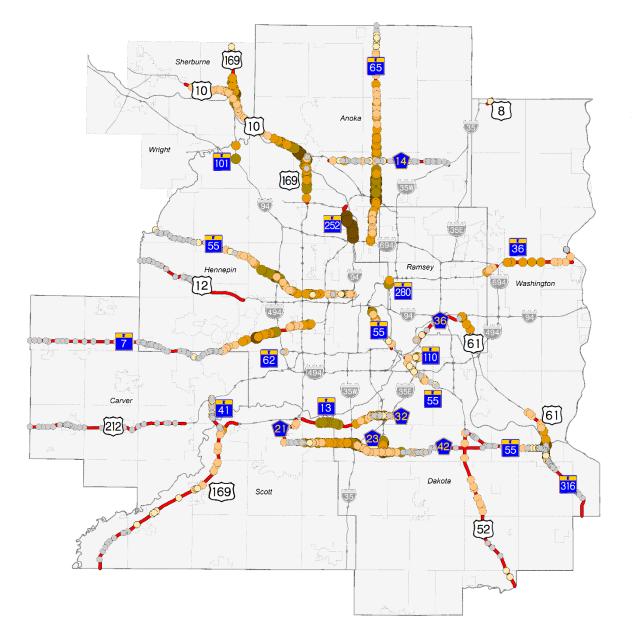


Phase I Screening: Criteria, Process





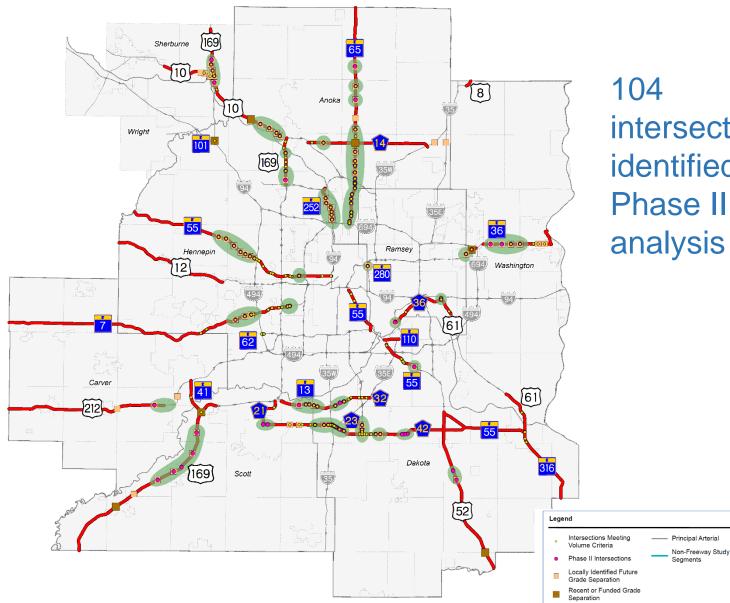
Phase I Screening



All Intersections (374)



Phase I Screening



intersections identified for Phase II analysis

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Phase II Study Area

County Boundaries

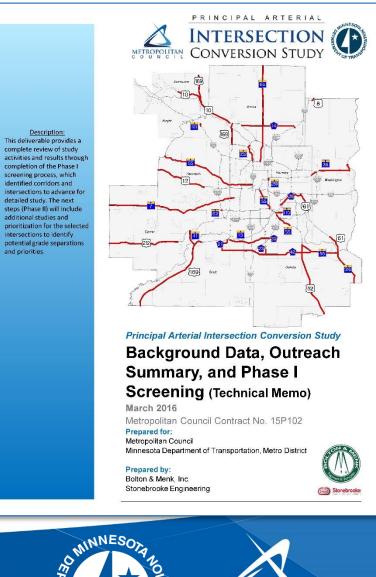
City/Township Boundaries

Source: MetroG/S, MnDO1

Phase I Results

- Of 374 intersections, 104 (28%) advanced to Phase II
- Some locations were screened out based on context – examples:
 - TH 55 Hiawatha Ave.
 - TH 36 in Oak Park Heights
- Phase I Tech Memo (pdf on project website)

http://www.metrocouncil.org/PAICS





Phase II Screening Steps/Criteria

- First... Provide higher scores for intersections that:
 - Serve higher volumes of traffic, reduce mobility, and cause variable travel times? <u>(Mobility and Reliability)</u>
 - Have a higher rate/cost of severe crashes? (Safety)
 - Can accommodate grade separation, serve regional routes, and leverage other modes? <u>(Corridor Context)</u>
- Technical Steering Committee (TSC) members are helping to establish weights
- Final study products: late 2016/early 2017





Questions

Steve Peterson, Metropolitan Council Project Manager 651-602-1819 or <u>Steven.Peterson@metc.state.mn.us</u>

Paul Czech, MnDOT Project Manager 651-234-7785 or Paul.Czech@state.mn.us

Project Website: http://www.metrocouncil.org/PAICS

