## Principal Arterial Intersection Conversion Study



Transportation Advisory Board



### **Presentation Overview**

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

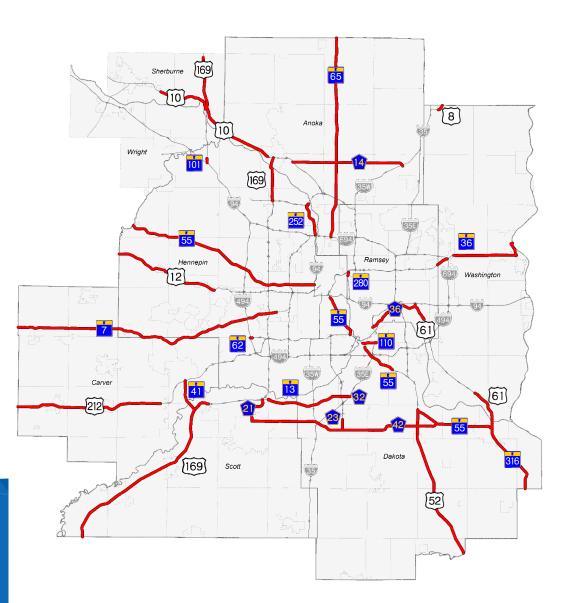
   More than 370 intersections initially considered
- Phase II (Ongoing)

- Approximately 100 intersections



## **Background – Need for Study**

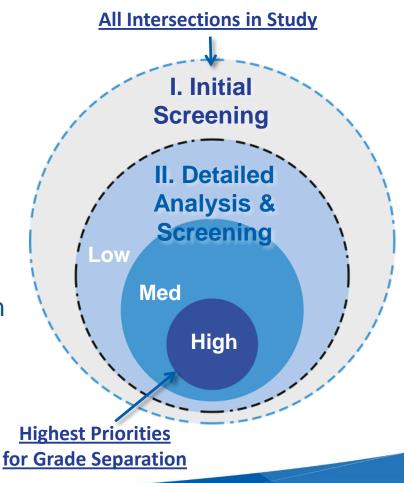
- Identify regional priorities given high demand for grade-separations and limited funding
- Provide input to funding decisions
- First-of-its-kind study; identified in Work
   Program of 2040 TPP





## **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)

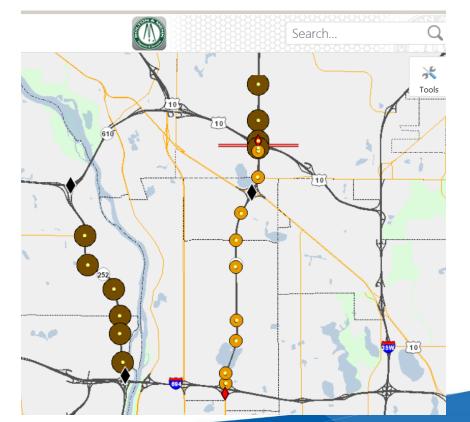






## **Phase I Screening Process**

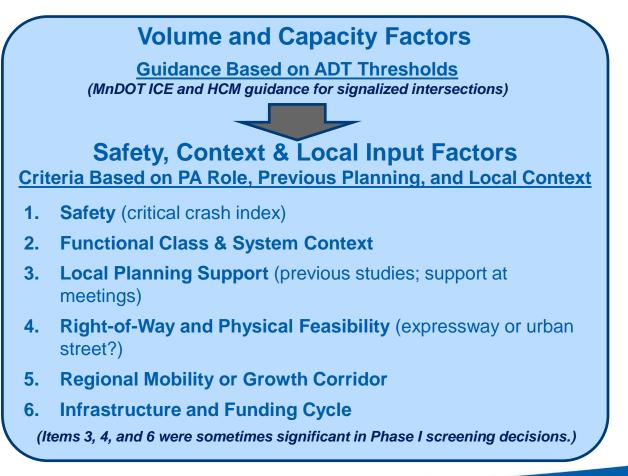
- 8 local outreach meetings (December 2015):
  - Technical and contextual screening criteria
  - Specific corridors, intersections, and data
- Local input helped refine the Phase I criteria





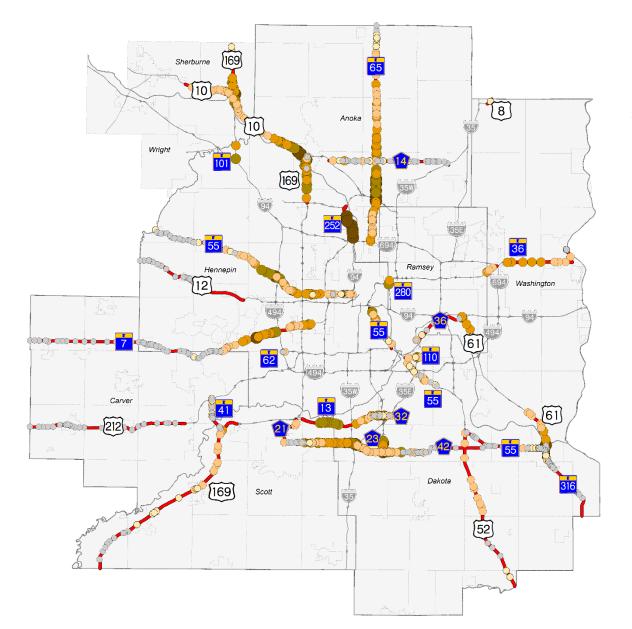


#### Phase I Screening: Criteria, Process

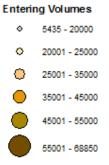




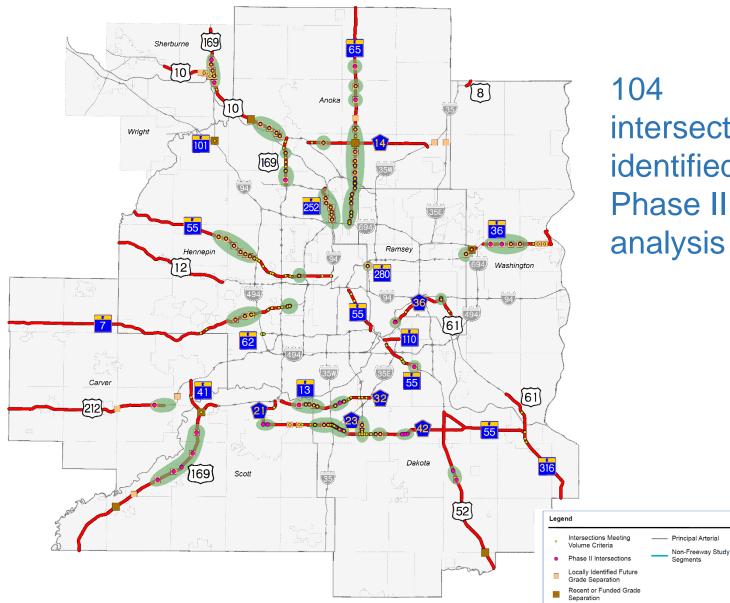
### **Phase I Screening**



# All Intersections (374)



#### **Phase I Screening**



intersections identified for Phase II analysis

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Phase II Study Area

County Boundaries

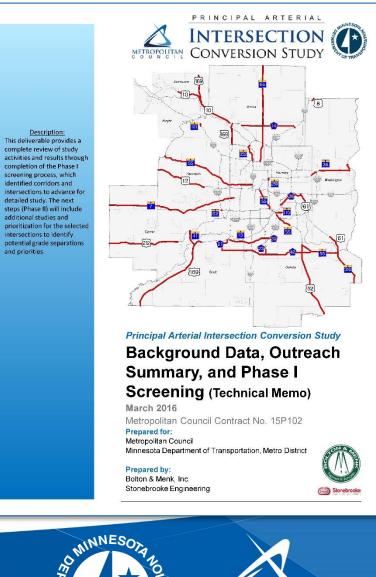
City/Township Boundaries

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

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

