

TODAY'S WEBINAR PRESENTERS



Sonja Piper, P.E. Minnesota Department of Transportation

Sonja is a Pedestrian and Bicycle Safety Engineer with MnDOTs Office of Traffic Engineering. Sonja's role involves working with MnDOT project managers and local partners to find ways to make Minnesota a safer place for people walking and bicycling along and across state highways.

Sonja earned her degree in Civil Engineering from Iowa State University and is a registered Professional Engineer in the state of Minnesota. She has an over 20-year career working across government agencies and the private sector.



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Minnesota Department of Transportation

Eric is a senior researcher with MnDOT's Office of Traffic Engineerin, Eric works at the intersection of crash data and environmental system distillation complex data into effective safely plans and projects. He currently administers the Highway Safely Improvement Program. He holds a degree in economics and history from the University of Minnesofes of the Complex of the Com



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TODAY'S WEBINAR PRESENTERS



Cody Christianson, P.E., ENV SP

Bolton & Menk, Inc.

Cody is a Transportation Project Manager with Bolton & Menk, based out of their Minnespolis, MN office. Cody has national bicycle and pedestrian expertise that heige build support for improved multimost internativation. By interning to commonly input, coordinating with project internativation by interning to make the project internativation of the p

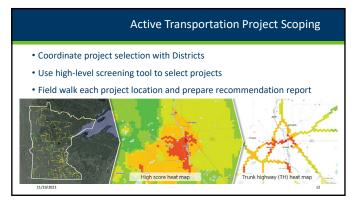
Cody has worked on projects throughout the country and is a registerer Professional Engineer in Alaska, Colorado, Minnesota, New Mexico, North Dakota, and Wyoming, and is also an Envision Sustainability Professional.

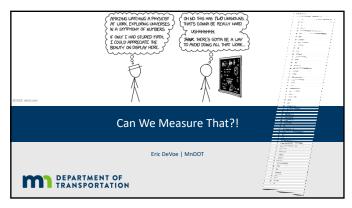


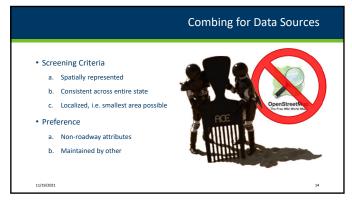


Layering data stories builds a more complete picture. Equity analysis is a missing layer. We already do safety analysis, are there gaps? Let data—not intuition—guide you Keep it simple Numerical, scaled values, binary thresholds

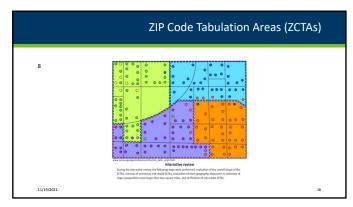
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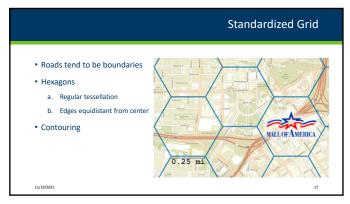


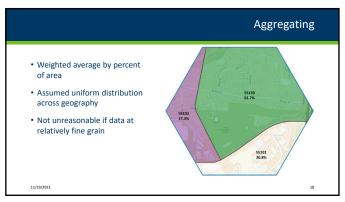


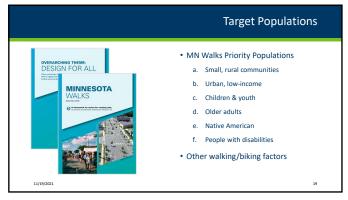




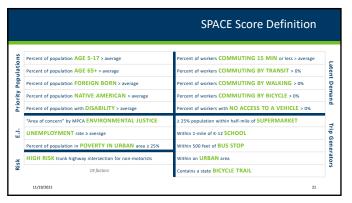


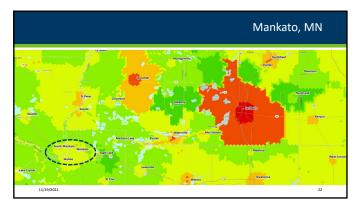


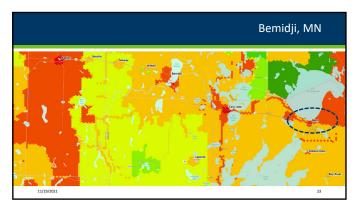


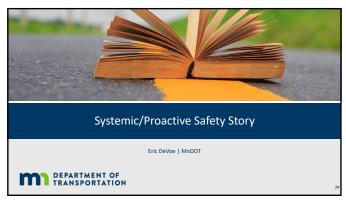


a. Pithy Name • Suitability of Pedestrian And Cyclist Environment (SPACE) Score b. Binary Thresholds • Integrate into existing processes • Spend resources on analysis rather than complex metrics c. Scaled Out of 100 • "What percent of this project has characteristics for further consideration?"









District Safety Planning

- Identify at-risk intersections, suggest countermeasures, reduce K+A crashes
- Analyzed characteristics at over 2,600 intersections
- What characteristics are over-represented?
 - Example: outside of the Metro, signals make up 18% of urban intersections but are involved in 73% of severe non-motorist crashes and 55% of all severe crashes!
- Created ranking system for intersections

11/19/202

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Intersection Risk Assessments

- Intersections Analyzed
 - On state highway
 - Within city limits
 - Manually supplement dataset!
- Over-representation?
 - Is the percent of severe crashes greater than the percent of sites?
- Factors
 - a. Vehicle traffic volumes
 - b. Signalized
 - c. Major route posted speed
 - d. Skew
 - e. Primary land use
 - f. Lighting
 - g. Street parking

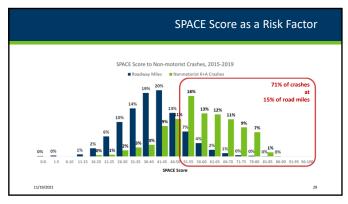
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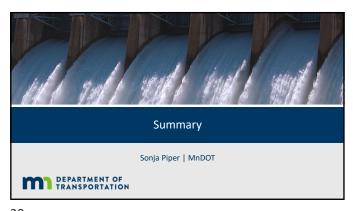
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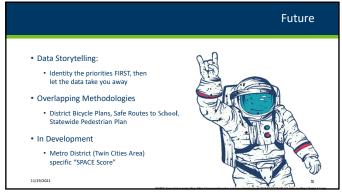
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Statewide District Safety Plan Intersection Risk Rating 2014-2015 rata and Bernous Hoper Crashes **Intersections** ** Non-motorized K+A Crashes** 24% 22% 22% 26% 27% 26% 27% 26% 3 7% 5 6 7 Urban Non-motorist Risk Rating (Number of Stars) 11/19/2021 27







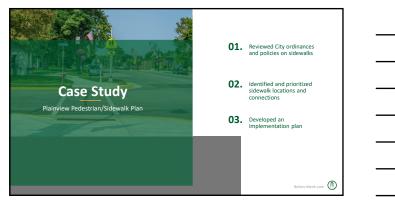




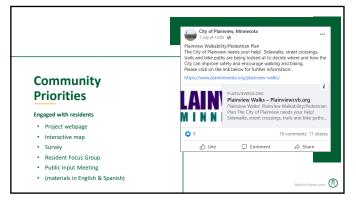


















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Recommendations & Implementations

Policy Revisions



- Revise ordinance to reflect city's current policy to provide all sidewalks w/ fee assessed in monthly billing
 Consider additions to prevent vehicles, especially RV's and boats, from creating temporary obstructions
- Revise language to ensure sidewalks aren't reduced below 5' or eliminate altogether to reduce a site's impervious
- Subdivision language should be amended to provide additional guidance

Funding & Implementation



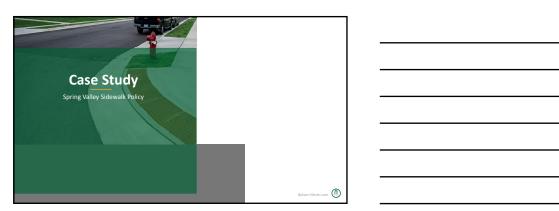
- Current funding levels would take 35 to 45 years to implement full network
- to implement full network
 Opportunities to expedite Priority 1 network:

 Focus on gaps and small connections
 Incorporate sidewalk construction into
 future roadway projects
 Work wi Jurisdictional partners on cost
 sharing opportunities
 Work wy MnDOT to identify grant
 opportunities through Trans Alt Program
 Complete STR Plan
 Evaluate future increases to the sidewalk

 - Evaluate future increases to the sidewalk





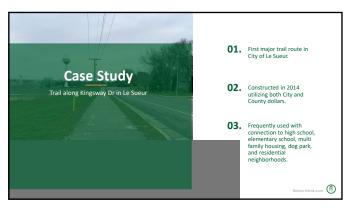


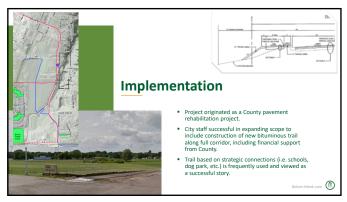


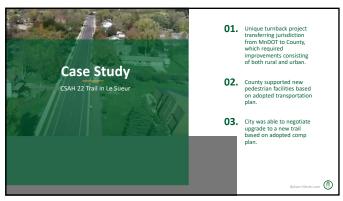


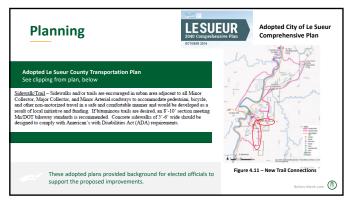


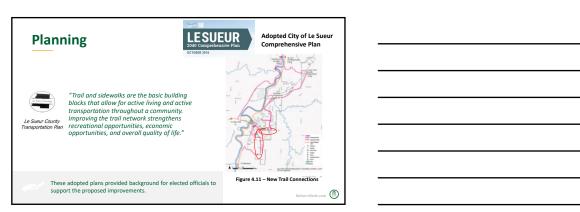


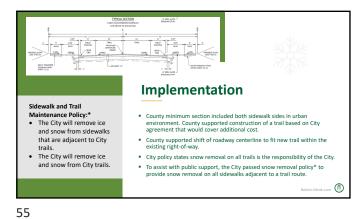


















Post-Construction

- Positive feedback, with frequent-use observed and adjacent homeowners expressing support of new pedestrian facilities.
- peoestran nationes.

 County and City working together on another reconstruction project (CSAH 36) and existing condition does not have sidewalk both sides. Homeowner feedback received from the first public meeting was in support of extending sidewalks like the CSAH 22 project.



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01. Have the community leaders visit other communities where similar facilities are installed*

02. Cities should develop a very basic pedestrian / sidewalk plan (include bike facilities if needed)

03. City of Rochester has a policy where they only require residents to plow a 5-ft width on multi-use trails in the winter

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