



UNIVERSITY OF MINNESOTA  
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## Center for Transportation Studies - Quarterly Report Distribution

This report was created for: Jake Granholm (Minnesota DEED)

### Project Information

Project #:	2021045
Project Title:	National Accessibility Evaluation Phase II
Reporting Period:	Apr. 1 - Jun. 30
Principal Investigator:	Lind, Eric - Center for Transportation Studies
Proxy:	shelt169, elind, mathi032, owenx148
Funding Source(s):	State Pooled Funds, State Pooled Funds
Agency Contract Number:	1036342
MnDOT Work Order Number:	6
CTS Project Number:	2021045
Technical Liaison:	Jake Granholm (Minnesota DEED)
Administrative Liaison:	Annette Fritze - Mechanical Engineering (University of Minnesota)
Authorization Date:	2021-02-01
Expiration Date:	2025-12-31

### Tasks

#### **1 - Program Management and Development**

The project team will maintain and update the project website, coordinate media relations for national report releases, and arrange for quarterly meetings (three conference calls and one in-person meeting held each year) of the technical advisory panel (TAP). CTS will maintain a TAP membership list, invite TAP members to the meetings, develop meeting agendas, and distribute minutes of the meetings. CTS will also assist with the preparation of quarterly reports that will be presented at each TAP meeting. In

consultation with the TAP, the project team will identify opportunities to enhance the project by improving existing deliverables or adding new deliverables.

**Deliverables:** Quarterly reports summarizing TAP communications, activities, and meeting materials.

**Cost:** \$199865

**Due Date:** 2025-12-31

**Approved Date:** 2023-03-21

**Progress Notes:** Completed all but two quarterly TAP meetings across 5 years.

**Percent Complete:** 85%

## **2 - Produce 2020 Datasets and Reports**

The research team will collect up-to-date network and speed datasets for 2020 describing the transportation networks in the study area, as well as destination counts at the block level. These will be used to calculate accessibility datasets representing typical conditions in 2020. The research team will prepare reports summarizing and describing accessibility patterns in the jurisdictions of each project partner, as well as a single national "Access Across America" report for each mode. The research team will provide the participating agencies a copy of the national reports at least four weeks in advance of their being released to the public. Local reports and datasets will be delivered directly to project partners, and the national report will be published and publicized to national media outlets.

**Deliverables:** Accessibility datasets delivered to project partners. National "Access Across America" reports published by the University of Minnesota; local reports delivered to each project partner.

**Cost:** \$317226

**Due Date:** 2021-11-30

**Approved Date:** 2023-03-21

**Progress Notes:**

**Percent Complete:** 100%

## **3 - Produce 2021 Datasets and Reports**

The research team will collect up-to-date network and speed datasets for 2021 describing the transportation networks in the study area, as well as destination counts at the block level. These will be used to calculate accessibility datasets representing typical conditions in 2021. The research team will prepare reports summarizing and describing accessibility patterns in the jurisdictions of each project partner, as well as a single national "Access Across America" report for each mode. The research team will provide the participating agencies a copy of the national reports at least four weeks in advance of their being released to the public. Local reports and datasets will be delivered directly to project partners, and the national report will be published and publicized to national media outlets.

**Deliverables:** Accessibility datasets delivered to project partners. National "Access Across America" reports published by the University of Minnesota; local reports delivered to each project partner.

**Cost:** \$352068

**Due Date:** 2022-11-30

**Approved Date:** 2023-10-19

**Progress Notes:**

**Percent Complete:** 100%

#### **4 - Produce 2022 Datasets and Reports**

The research team will collect up-to-date network and speed datasets for 2022 describing the transportation networks in the study area, as well as destination counts at the block level. These will be used to calculate accessibility datasets representing typical conditions in 2022. The research team will prepare reports summarizing and describing accessibility patterns in the jurisdictions of each project partner, as well as a single national "Access Across America" report for each mode. The research team will provide the participating agencies a copy of the national reports at least four weeks in advance of their being released to the public. Local reports and datasets will be delivered directly to project partners, and the national report will be published and publicized to national media outlets.

**Deliverables:** Accessibility datasets delivered to project partners. National "Access Across America" reports published by the University of Minnesota; local reports delivered to each project partner.

**Cost:** \$352068

**Due Date:** 2024-06-30

**Approved Date:** 2024-06-24

**Progress Notes:**

**Percent Complete:** 100%

#### **5 - Produce 2023 Datasets and Reports**

The research team will collect up-to-date network and speed datasets for 2023 describing the transportation networks in the study area, as well as destination counts at the block level. These will be used to calculate accessibility datasets representing typical conditions in 2020. The research team will prepare reports summarizing and describing accessibility patterns in the jurisdictions of each project partner, as well as a single national "Access Across America" report for each mode. The research team will provide the participating agencies a copy of the national reports at least four weeks in advance of their being released to the public. Local reports and datasets will be delivered directly to project partners, and the national report will be published and publicized to national media outlets.

**Deliverables:** Accessibility datasets delivered to project partners. National "Access Across America" reports published by the University of Minnesota; local reports delivered to each project partner.

**Cost:** \$364137

**Due Date:** 2025-06-30

**Approved Date:** 2023-03-21

**Progress Notes:** Gathered all necessary input data; began pipeline testing

**Percent Complete:** 100%

#### **6 - Produce 2024 Datasets and Reports**

The research team will collect up-to-date network and speed datasets for 2024 describing the transportation networks in the study area, as well as destination counts at the block level. These will be used to calculate accessibility datasets representing typical conditions in 2024. The research team will prepare reports summarizing and describing accessibility patterns in the jurisdictions of each project partner, as well as a single national "Access Across America" report for each mode. The research team will provide the participating agencies a copy of the national reports at least four weeks in advance of

their being released to the public. Local reports and datasets will be delivered directly to project partners, and the national report will be published and publicized to national media outlets.

**Deliverables:** Accessibility datasets delivered to project partners. National "Access Across America" reports published by the University of Minnesota; local reports delivered to each project partner.

**Cost:** \$388565

**Due Date:** 2025-11-30

**Approved Date:** N/A

**Progress Notes:** gathered input data, structured databases, began testing

**Percent Complete:** 20%

## **7 - Compile Report, Technical Advisory Panel Review, and Revisions**

A draft final report will be prepared, following MnDOT publication guidelines, to document project activities, findings and recommendations. This report will be reviewed by the Technical Advisory Panel (TAP), updated by the PI to incorporate technical comments, and then approved by the Technical Liaison before this task is considered complete. If possible, a TAP meeting will be scheduled to facilitate the discussion of the draft report.

**Deliverables:** A draft final report for TAP review, and a revised report that is technically complete and approved by the TL for publication.

**Cost:** \$147643

**Due Date:** 2025-06-30

**Approved Date:** N/A

**Progress Notes:** draft report to be submitted to TAP for review in July

**Percent Complete:** 75%

## **8 - Editorial Review and Publication of Final Report**

During this task, the approved report will be processed by MnDOT's contract editors. The editorial review will ensure it meets publication standards. The PI will work with the editor to address editorial comments, so this task must be finished while the contract is still active.

**Deliverables:** Final Published Report

**Cost:** \$98428

**Due Date:** 2025-12-31

**Approved Date:** N/A

**Progress Notes:**

**Percent Complete:** N/A

## **Abstract**

This project will implement activities for the National Accessibility Evaluation pooled-fund study, performing accessibility evaluations describing conditions in 2020, 2021, 2022, 2023 and 2024. The National Accessibility

Evaluation project has two main objectives. First, it will create a new, national Census block-level accessibility dataset that can be used by partners in local transportation system evaluation, performance management, planning, and research efforts. Second, it will produce and publish a series of annual reports describing accessibility to jobs and other destinations by driving and by transit in metropolitan areas across America.

**Accessibility Dataset** This project will create a national Census-block level dataset describing accessibility to jobs and other destinations from locations throughout the country, updated annually. Accessibility calculations will rely on detailed travel time calculations for both driving and transit, which will be implemented using commercially-available, GPS-based speed measurements and published transit schedules. Each Access Across America partner will have direct digital access to the accessibility datasets covering the jurisdictions of all partners. The data format will be such that the dataset can be easily accessed using popular software available on office computers.

**Annual Reports** The annual Access Across America reports will provide summaries of the detailed accessibility datasets for the 50 largest metropolitan areas across America. These reports will be released to national and local media outlets and supported by publicity and communications efforts. Partners will be recognized in the report for their sponsorship and support.

## **Presentations**

### **Access to Essential Services**

**Author:** Eric Lind

**Type:** Conference

**Date:** 2025-06-25

**Where Presented:** TRB Tools of the Trade

**Audience Total:** 40

**Describe Audience:** N/A

**URL:** N/A

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### **Access to Essential Services**

**Author:** Eric Lind

**Type:** Conference

**Date:** 2025-06-25

**Where Presented:** TRB Tools of the Trade

**Audience Total:** 40

**Describe Audience:** N/A

**URL:** N/A

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### **Access to Opportunity: Counting both ends of the trip**

**Project Title: National Accessibility Evaluation Phase II**  
**April 01 - June 30, 2025**

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**Author:** Eric Lind

**Type:** Conference

**Date:** 21 June 2023

**Where Presented:** MCEA, Alexandria MN

**Audience Total:** 50

**Describe Audience:** MN County Engineers

**URL:** N/A

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**Access to Opportunity: National Evaluation, Local Application**

**Author:** Lind, Jain

**Type:** webinar

**Date:** 10/5/2023

**Where Presented:** SSTI Measuring Accessibility Webinar

**Audience Total:** 150

**Describe Audience:** N/A

**URL:** <https://ssti.us/2023/09/11/measuring-accessibility-national-evaluation-local-application/>

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**Accessibility in US Cities: Where Is Transportation Most Sustainable?**

**Author:** Eric Lind

**Type:** Webinar

**Date:** 15 October 2024

**Where Presented:** online

**Audience Total:** N/A

**Describe Audience:** N/A

**URL:** <https://www.cts.umn.edu/events/seminars/2024/accessibility>

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**Accountability Through Accessibility**

**Author:** Eric Lind

**Type:** Conference

**Date:** 2025-06-25

**Where Presented:** TRB Tools of the Trade

**Audience Total:** 40

**Describe Audience:** N/A

URL: N/A

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**Counting the Ends of the Trip: Applying accessibility metrics to performance measurement and project development**

**Author:** Lind

**Type:** Conference

**Date:** 2024-05-29

**Where Presented:** MTCE

**Audience Total:** N/A

**Describe Audience:** N/A

URL: N/A

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**CTS Initiatives: Accessibility Observatory Highlights**

**Author:** Eric Lind

**Type:** Demo

**Date:** 1 May 2023

**Where Presented:** U of M CTS Annual Meeting

**Audience Total:** 20

**Describe Audience:** CTS Executive Committee

URL: N/A

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**Destination Accessibility and Vehicle Miles Traveled**

**Author:** Eric Lind

**Type:** Conference

**Date:** 7 Nov 2024

**Where Presented:** CTS Research Conference

**Audience Total:** N/A

**Describe Audience:** N/A

URL: N/A

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**Expanding Accessibility Metrics: Focus on Essential Destinations**

**Author:** Saumya Jain

**Type:** Conference

**Date:** 17 Sept 2024

**Where Presented:** AASHTO Performance Management Conference, St. Louis, MO

**Audience Total:** N/A

**Describe Audience:** N/A

**URL:** N/A

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### **Identifying the Gap: Measuring Access to Essential Destinations in Minnesota**

**Author:** Shirley Liu

**Type:** Conference

**Date:** 18 Sept 2024

**Where Presented:** MN APA, Bloomington, MN

**Audience Total:** N/A

**Describe Audience:** N/A

**URL:** N/A

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### **Identifying the Gap: Measuring Accessibility to Essential Destinations in Rural Minnesota**

**Author:** Saumya Jain, Matthew Hockert

**Type:** Conference

**Date:** 7 Nov 2024

**Where Presented:** CTS Research Conference

**Audience Total:** N/A

**Describe Audience:** N/A

**URL:** N/A

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### **Including the Ends of the Trip**

**Author:** Eric Lind

**Type:** Conference

**Date:** 7 Jan 2024

**Where Presented:** TRB Annual Meeting 2024

**Audience Total:** 100

**Describe Audience:** transportation researchers and practitioners

**URL:** N/A



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### **Multi-modal safety influences**

**Author:** Eric Lind

**Type:** Conference

**Date:** 11/15/2023

**Where Presented:** Minnesota Statewide TZD Conference

**Audience Total:** 30

**Describe Audience:** N/A

**URL:** N/A

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### **Multiple Destinations Access Metrics for Decision-Makers**

**Author:** Saumya Jain

**Type:** Conference

**Date:** 11/2/2023

**Where Presented:** CTS Research Conference

**Audience Total:** 50

**Describe Audience:** N/A

**URL:** N/A

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### **Nation Accessibility Evaluation: Access to Jobs & Essential Destinations**

**Author:** Saumya Jain, Eric Lind

**Type:** deliverable walk-through

**Date:** 25 June 2024

**Where Presented:** VDOT MPO Quartlery meeting (via Zoom)

**Audience Total:** 30

**Describe Audience:** State and local agency staff

**URL:** N/A

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### **National Accessibility EvaluationNew Destinations, Applications, and Next Steps**

**Author:** Andrew Owen

**Type:** Conference

**Date:** 18 Sept 2024

**Where Presented:** AASHTO Performance Management Conference, St. Louis, MO

**Audience Total:** N/A  
**Describe Audience:** N/A  
**URL:** N/A

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**Pandemic-Induced Transit Service Reductions and Impact on Access to Opportunity in Large US Cities**

**Author:** Eric Lind  
**Type:** Conference  
**Date:** 11/2/2023  
**Where Presented:** CTS Research Conference  
**Audience Total:** 50  
**Describe Audience:** N/A  
**URL:** N/A

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**Transportation Access in AppalachiaAccess to Essential Destinations**

**Author:** Saumya Jain  
**Type:** webinar  
**Date:** 29 Oct 2024  
**Where Presented:** online  
**Audience Total:** N/A  
**Describe Audience:** N/A  
**URL:** N/A

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**Students**

Name	Email	Degree Program	Degrees	Graduation Date
Matthew Hockert	hocke069@umn.edu	Doctorate	Applied Economics	N/A