



UNIVERSITY OF MINNESOTA
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Center for Transportation Studies - Quarterly Report Distribution

This report was created for: Hafiz Munir (MnDOT)

Project Information

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|--------------------------|---|
| Project #: | 2021045 |
| Project Title: | National Accessibility Evaluation Phase II |
| Reporting Period: | Oct. 1 - Dec. 31 |
| 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: N/A

Progress Notes:

Percent Complete: 72%

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: \$339708

Due Date: 2025-06-30

Approved Date: N/A

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

Percent Complete: 40%

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: \$339708

Due Date: 2025-11-30

Approved Date: N/A

Progress Notes:

Percent Complete: N/A

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: \$123214

Due Date: 2025-06-30

Approved Date: N/A

Progress Notes:

Percent Complete: N/A

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: \$82143

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 Opportunity: Counting both ends of the trip

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

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/>

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>

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

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

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

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

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

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

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

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

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

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

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

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

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

Students

| Name | Email | Degree Program | Degrees | Graduation Date |
|------|-------|----------------|---------|-----------------|
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Project Title: National Accessibility Evaluation Phase II
October 01 - December 31, 2024

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|-----------------|------------------|-----------|-------------------|-----|
| Matthew Hockert | hocke069@umn.edu | Doctorate | Applied Economics | N/A |
|-----------------|------------------|-----------|-------------------|-----|