National Accessibility Evaluation TAP Meeting

January 12, 2016

Agenda

1. Welcome from MnDOT
2. Introductions
3. Project Overview
4. Future TAP Meetings
5. Other Business

Welcome from MnDOT

Jean Wallace

Introductions

Brenda Thomas

Accessibility Observatory Staff

Prof. David Levinson, Managing Director

Andrew Owen, Director

Brendan Murphy, Researcher

Student researchers

ACCESSIBILITY OBSERVATORY

UNIVERSITY OF MINNESOTA

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TAP Members

Minnesota Department of Transportation (lead agency)

Jean Wallace, Deanna Belden, Farideh Amiri

Federal Highway Administration

Brian Gardner

Arkansas State Highway and Transportation Department

Jessie Jones, Michael Henry, Virginia Porta

California Department of Transportation

Rahul Srivastava

Florida Department of Transportation

Dana Knox

Iowa Department of Transportation

CTS Staff

Laurie McGinnis, Director

Brenda Thomas, Director of Coordinated Research

Colleen O’Connor Toberman, Program Coordinator

Project Update and Discussion

Andrew Owen

Current Status

Task 2 complete (Collect Input Datasets)

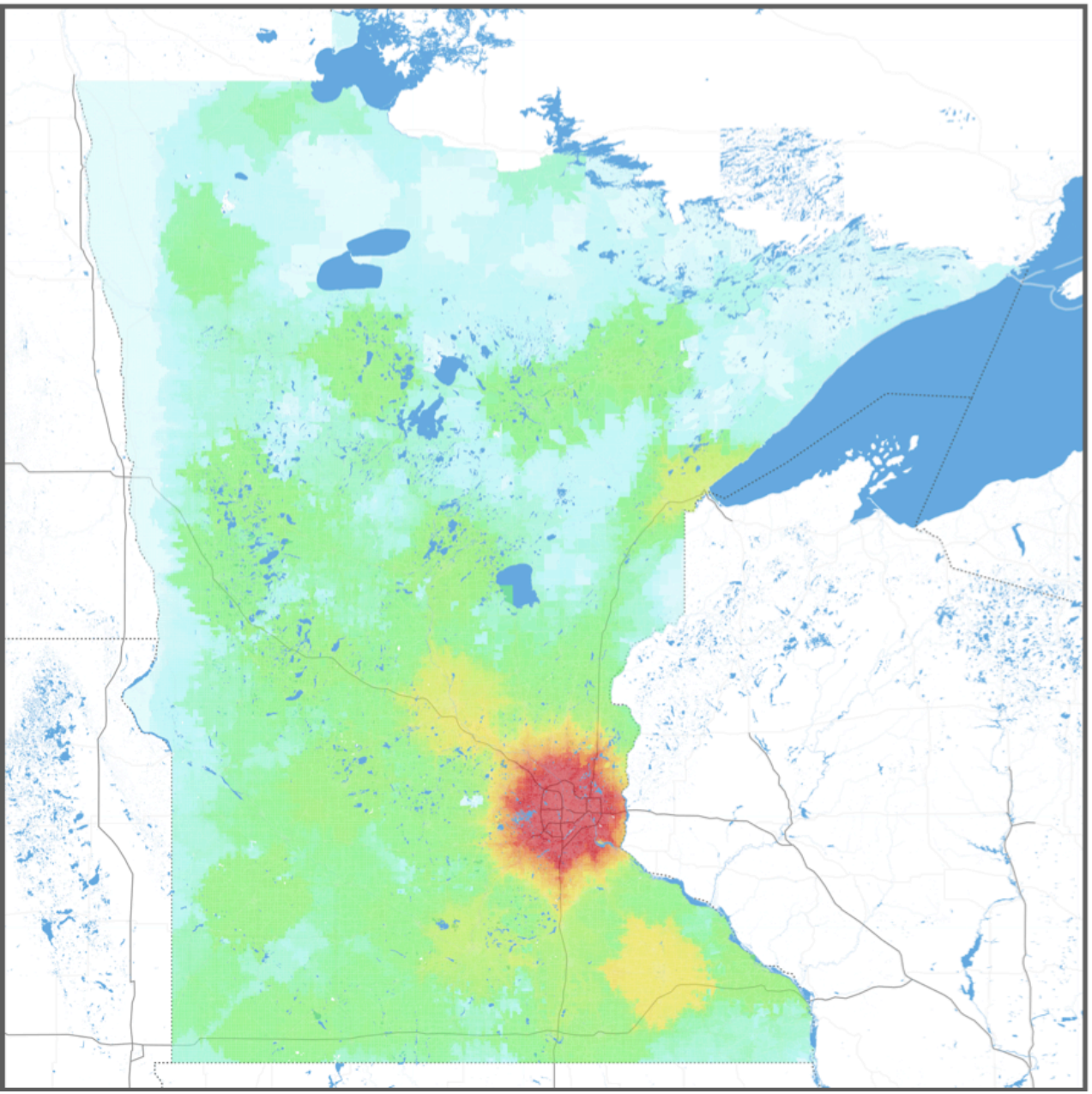
- Complete US road network with speed profiles supplied by TomTom
- Block-level employment estimates from U.S. Census LEHD
- Pedestrian network with national coverage from OpenStreetMap
- Ongoing transit schedule collection and updates

Task 3 in progress (Calculate Accessibility Datasets)

- First round of calculations revealed two resolvable issues:
  - Transit: handling of skyway/underground pedestrian facilities
  - Auto: handling of local time zone when reading speed data
- Revised calculations in progress

Task 4 in progress (Prepare Accessibility Reports)

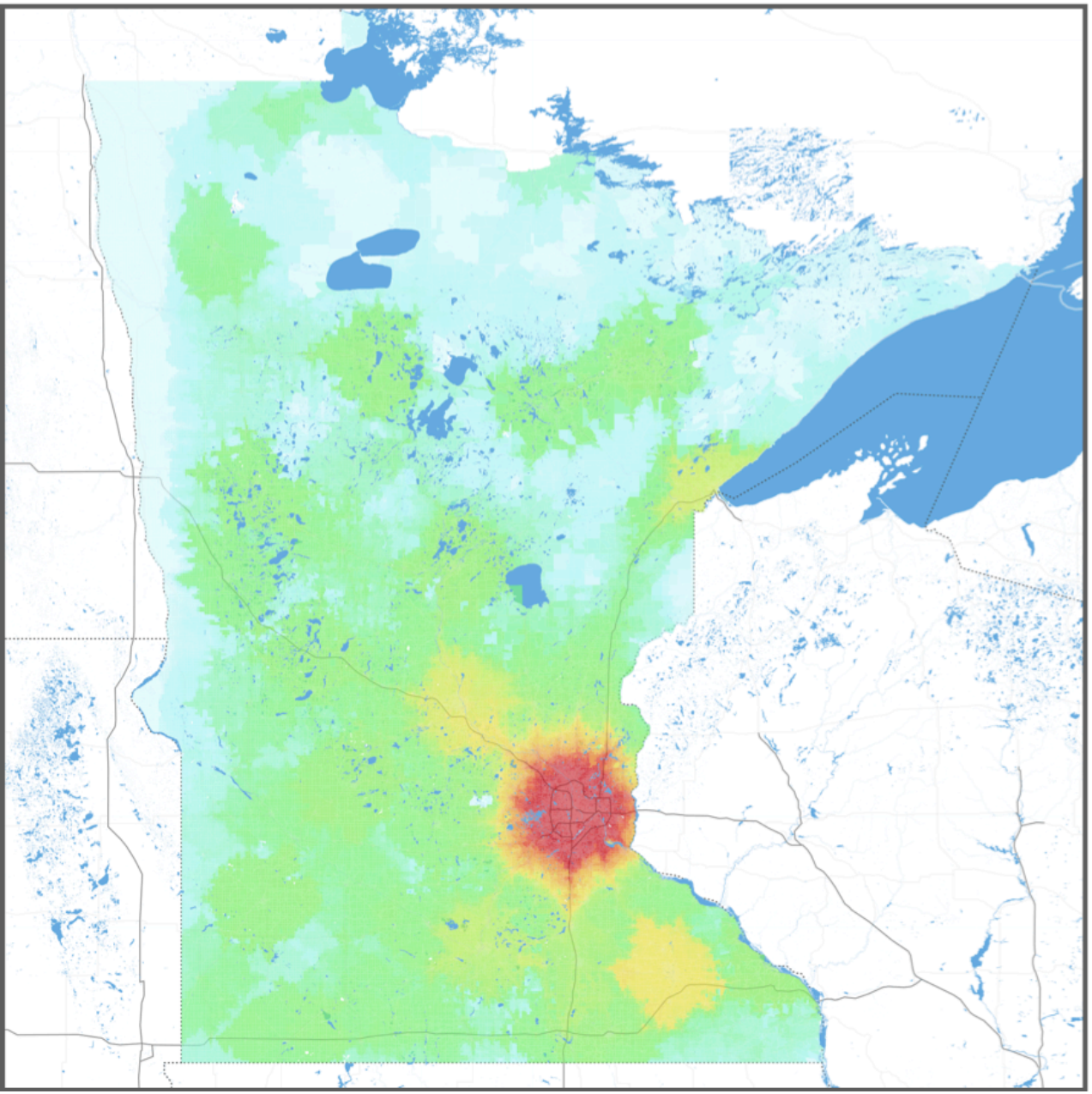
Minnesota



Jobs within 30 minutes by driving at 6am

- 0 – 1,000
- 1,000 – 2,500
- 2,500 – 5,000
- 5,000 – 7,500
- 7,500 – 10,000
- 10,000 – 25,000
- 25,000 – 50,000
- 50,000 – 75,000
- 75,000 – 100,000
- 100,000 – 250,000
- 250,000 – 500,000
- 500,000 – 750,000
- 750,000 – 1,000,000
- 1,000,000 +

Minnesota



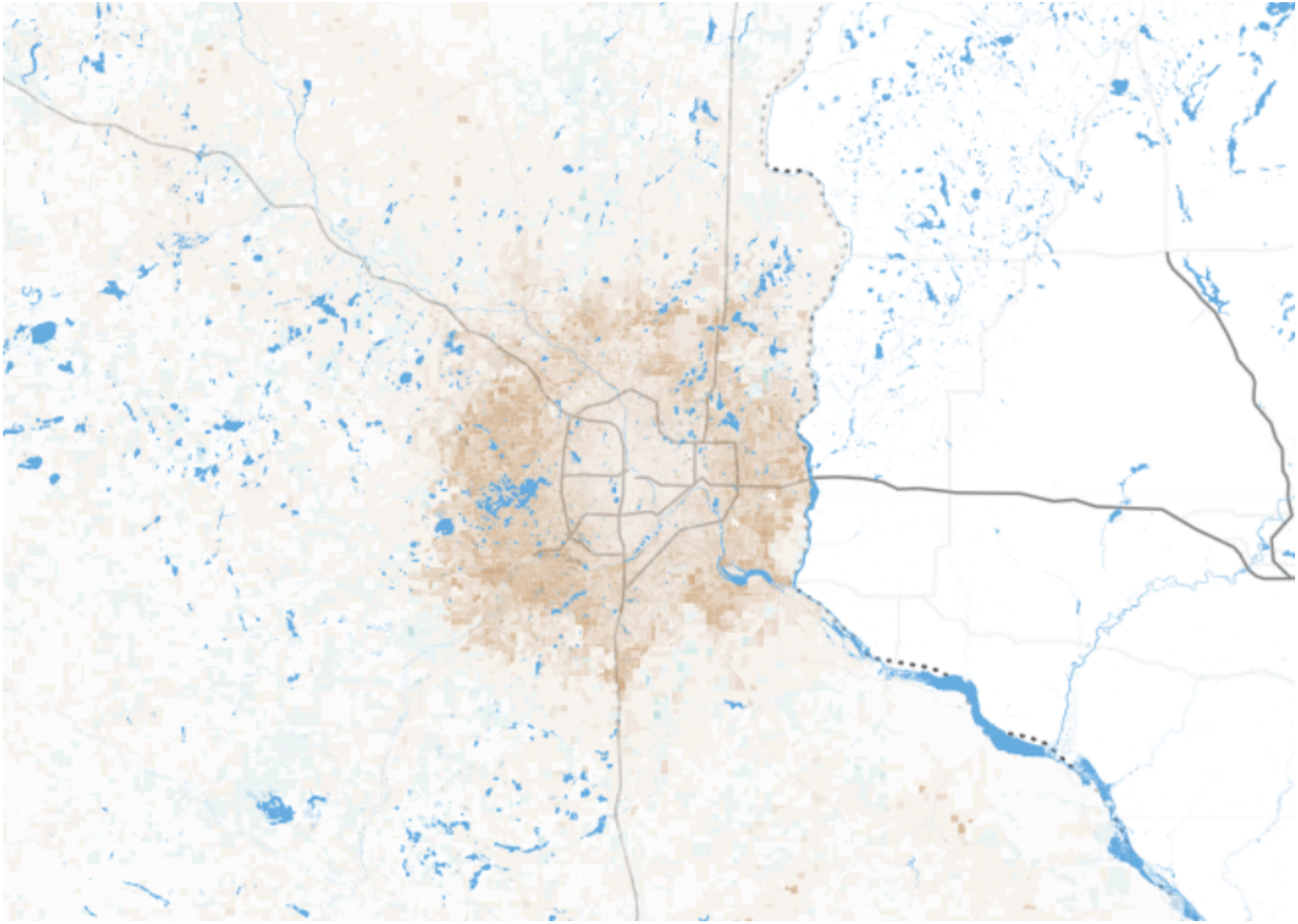
Jobs within 30 minutes by driving at 8am

- 0 – 1,000
- 1,000 – 2,500
- 2,500 – 5,000
- 5,000 – 7,500
- 7,500 – 10,000
- 10,000 – 25,000
- 25,000 – 50,000
- 50,000 – 75,000
- 75,000 – 100,000
- 100,000 – 250,000
- 250,000 – 500,000
- 500,000 – 750,000
- 750,000 – 1,000,000
- 1,000,000 +

Minnesota

Jobs within 30 minutes by driving; 8am minus 6am

- -100,000 - -75,000
- -75,000 – -50,000
- -50,000 - -25,000
- -25,000 - -10,000
- -10,000 - -7,500
- -7,500 - -5,000
- -5,000 - -2,500
- -2,500 - -1,000
- -1,000 - -1
- 0
- 1 - 1,000
- 1,000 - 2,500
- 2,500 - 5,000
- 5,000 - 7,500
- 7,500 - 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- 50,000 - 100,000



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Timeline

Contract start date: July 9, 2015

Task 1: Communications and TAP Panel Engagement

Ongoing

Task 2: Collect Input Datasets

September 2015

Task 3: Calculate Accessibility Datasets

November 2015

Task 4: Prepare Accessibility Reports

February 2016

Task 5: TAP Review of Results and Methodology

March 2016

Future Plans

- Expanding data delivery to include bike and walk accessibility!
  - Included in 2015 data deliverables
- Web-based interface for exploring and analyzing
- Reliability of Accessibility
- Equity of Accessibility
- Transit capacity
- Panel at AASHTO Washington Briefing

New Opportunities

Potential new state DOT partners

Outreach to MPOs, cities, transit agencies

Florida DOT Evaluation of Accessibility Performance Measures — Project Summary

Doug McLeod

Other Business

Brenda Thomas

Case Studies for “Exploring and Expanding” Project

FHWA-funded research project:
“Exploring and Expanding Accessibility Metrics for Transportation Planning”

Thank you for many excellent recommendations!

After discussion with FHWA, selected 6 projects

- Minnesota
- California
- Wisconsin
- Texas

Will share relevant progress and findings at future TAP meetings

Questions and Discussion

MINNESOTA DEPARTMENT OF TRANSPORTATION

ACCESSIBILITY OBSERVATORY

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