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TRB TRANSPORTATION RESEARCH BOARD

TRB Webinar: Enhancing Public Health Equity Through Transportation

June 8, 2022 2:00 – 3:30 PM



Learning Objectives

- Use health equity as a means to frame community livability issues
- Develop policy-relevant and policy-sensitive health equity indicators
- Prioritize projects using health equity evaluation criteria

PDH Certification Information

1.5 Professional Development Hours (PDH) – see follow-up email

You must attend the entire webinar.

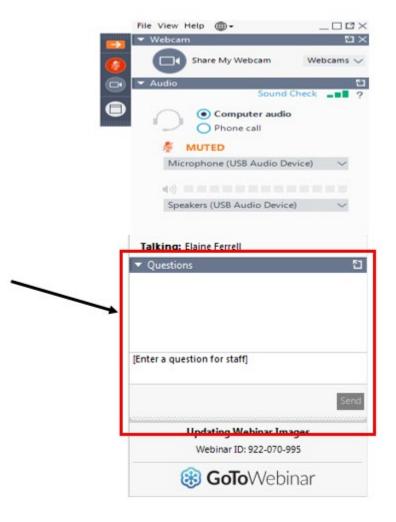
Questions? Contact Beth Ewoldsen at Bewoldsen@nas.edu

The Transportation Research Board has met the standards and requirements of the Registered Continuing Education Providers Program. Credit earned on completion of this program will be reported to RCEP. A certificate of completion will be issued to participants that have registered and attended the entire session. As such, it does not include content that may be deemed or construed to be an approval or endorsement by RCEP.



Questions and Answers

- Please type your questions into your webinar control panel
- We will read your questions out loud, and answer as many as time allows



Today's presenters



Kelly Rodgers kelly@thinkstreetsmart.org



Nissa Tupper Nissa.Tupper@state.mn.us



Betsy Harvey eharvey@ctps.org



Taylor Phillips taylor.phillips@denvergov.org



Sciences Engineering



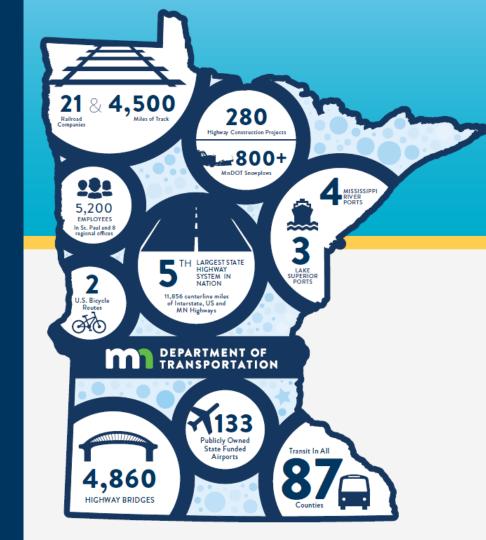
Equity Health Assessment

Nissa Tupper, Transportation and Public Health Planner Sustainability and Public Health Division, MnDOT

TRB Webinar — Enhancing Public Health Equity through Transportation June 8, 2022

MNDOT VISION

Minnesota's multimodal transportation system maximizes the health of people, the environment, and our economy.



MnDOT Sustainability & Public Health Division

www.dot.state.mn.us/sustainability/

Embed public health and equity into MnDOT decision making





Reduce emissions from all transportation modes

Support
Transportation
that
Improves
Public
Health

Reduce Transportation Carbon Pollution

Identify and factor climate risks into decision making



Improve
Resilience of
the
Transportation
System

Lead by



Reduce MnDOT emissions and empower staff

v Efforts

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Good health starts long before the doctor's office. Health is created where we live, learn, work, and play. **Healthy communities make healthy people.**



Transportation and Public Health Context

TRANSPORTATION

Mobility and access

Freight/goods movement

Economic opportunity

Environmental stewardship

Quality of life

Safety and Injury Prevention

Physical Activity/ Active <u>Transportation</u>

Environmental Health (e.g., Air and water quality)

Connectivity and Access

Evacuation and Emergency Response

Equity

HEALTH

Population health

Food access/security

Reduce chronic disease

Prevent infections disease spread

Protect vulnerable populations

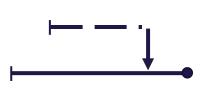


Health Evaluation Processes



Health Equity Lens Tools

Considering equity in specific policies, processes and decision-making processes



Health Impact Assessment (HIA)

Conducting a parallel assessment, integrating feedback into final decision



Community Impact Assessment (CIA)

Integrated process to evaluate and address health throughout project process

Hwy 252/I-94 Equity and Health Assessment (EHA)

WHY?

The Hwy 252/I-94 EHA seeks to enhance MnDOT's understanding of equity and health along the corridor and elevate the role of equity and health considerations in Hwy 252/I-94 decisions.

HOW?

The EHA consists of equity and health analysis guided by targeted, intentional engagement of historically underserved and overburdened communities.

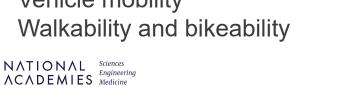
Hwy 252/I-94 Project Background

Project Purpose Statement:

The purpose of the Highway 252/I-94 Project is to improve the safe and reliable movement of people and goods across multiple modes on and across Highway 252 and I-94 between Highway 610 in Brooklyn Park and North 4th Street in Minneapolis.

Summary of Needs:

- Vehicle safety
- Vehicle mobility





Hwy 252/I-94 Project Schedule

OVERALL PROJECT SCHEDULE



ENVIRONMENTAL IMPACT STATEMENT PHASES





Who conducts the EHA?

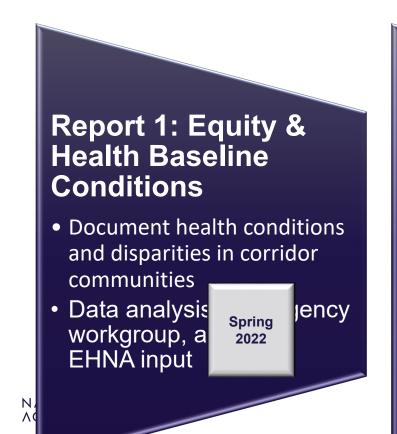
- The EHA is administered by MnDOT's Sustainability and Public Health Division with support of an interagency workgroup.
- Equity and Health Neighborhood Advisors (EHNA) group provides input on assessment of equity and health conditions, engagement activities, and potential transportation improvements to Hwy 252/
 I-94 project elements and alternatives.
- EHA reports are submitted to the **Hwy 252/I-94 project**NATION OF THE PROJECT Advisory Committee

Equity and Health Neighborhood Advisors (EHNA)

- 12-15 residents of neighborhoods along the Highway 252/I-94 corridor
- Application-based selection process
- Community organizations asked to identify and encourage applicants
- Considers applicant community connections, interest in equity and health
- Intent for balanced representation of Highway 252/I-94 corridor communities



EHA during the Hwy 252/I-94 Scoping Decision Document (SDD)



Report 2: Equity & Health Priorities

- Document health and equity priorities of corridor communities
- Data Summer EHNA input, targe Summer gement

2022

Report 3: Equipment 4: Equipment 4: Equipment 4: Report 3: Equipment 4: Report 4: Re

- Community-dri and equity asse
 - Fall menda 2022 r as pand/or

the project

Report 1: Equity and Health Baseline Conditions

- Describes 30+ equity and health baseline conditions along the Hwy 252/I-94 corridor.
- Data and analysis vetted through interagency working group and MN Department of Health.
- Identifies six focus areas based on input from the EHA interagency working group and the EHNA. These focus areas will be validated/adjusted through community engagement.



EHA Equity and Health Focus Areas



Environmental and human health



Sense of community



Property impacts



Transportation safety



Transportation choice

reviewed, prioritized and expanded through EHA targeted engagement

Focus areas will be

Access to jobs, healthy food options, and greenspace

EHA Engagement – Spring 2022

GOALS

- Identify the most critical and urgent equity and health priorities of historically underserved and overburdened communities
- 2. Focus on equity and health conditions that are directly affected by transportation decisions

METHODS

Targeted outreach:

- Questionnaire (online, print)
- Neighborhood door-knocks
- Community pop-ups and meetings with community organizations



EHA during the Hwy 252/I-94 Scoping Decision Document (SDD)



NATIONAL Sciences Engineer

Evaluating Health Equity in Transportation Projects

Betsy Harvey
Transportation Equity Program Manager

Boston Region Metropolitan Planning Organization

Equity at the Boston Region MPO

Equity in All Policies

Integral to every policy, process, and decision

Inclusive, through public engagement and collaboration

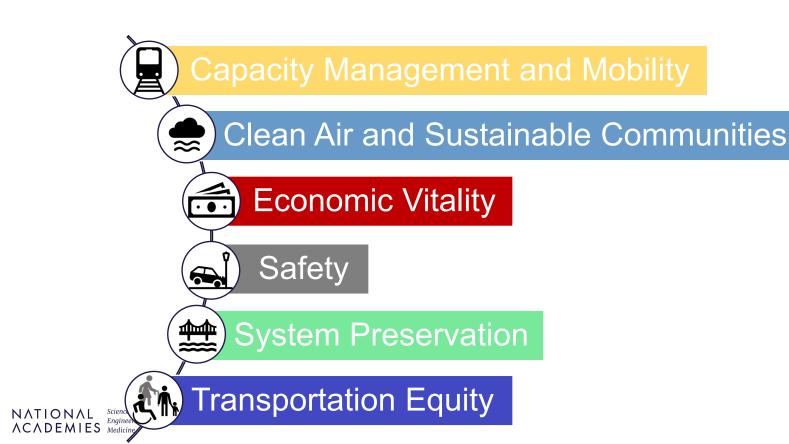
Strategic, through developing processes for data collection, analyses, and planning

Health Equity at an MPO



What does this look like in practice?

Setting MPO Goal Areas



Health-related Project Evaluation Criteria



Capacity
Management
and Mobility

- Invests in public transit
- Improves bicycle or pedestrian network



Clean Air and
Sustainable
Communities

- Reduces CO, VOC, and NO_x
- Enhances the natural environment



Safety

- Improves safety at severe-crash locations
- Improves bicyclist or pedestrian safety



System Preservation

- Incorporates climate resiliency elements
- Improves connectivity to emergency support facilities



Transportation Equity

Determining Equity Scores

Identify Equity Populations in Project Area



Compare share of each equity population to the region's average

Equity multiplier

Evaluate Criteria



- Invests in public transit
- Improves bicycle or pedestrian network



- Reduces NO_x, CO, and VOC
- Enhances the natural



- environment
- Incorporates climate resiliency
- Improves connectivity to emergency support facilities



- Improves safety at severe-crash locations
- Improves bicyclist or pedestrian safety

Equity multiplier

X

Base score (for each criteria)

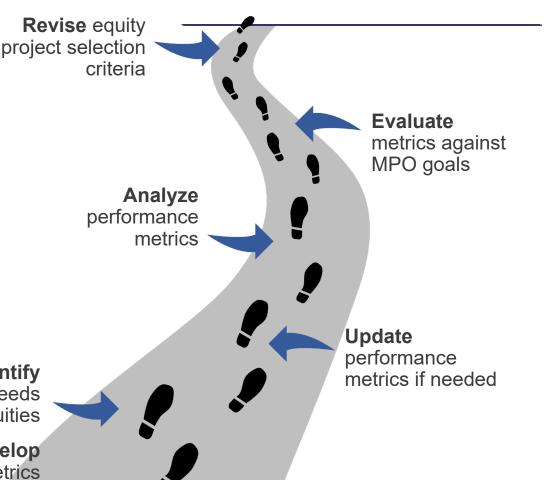
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= Final Score (for each

Where are we going?

Measuring existing inequities:

Knowing where we are will help us get to where we need to be.



Identify existing needs and inequities

Develop metrics

Challenges

Opportunities

Consistent data that cover the entire Boston region

New partnerships with academic institutions, government agencies, and community groups

Data that is available at the neighborhood level



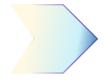
Leveraging new and emerging climate, environmental, and health data

Measuring cumulative health effects



Recognition that transportation plays and critical role in addressing health inequities

Availability of analysis tools



Expanding suite of analysis tools

Thank you!

Betsy Harvey eharvey@ctps.org



Health Equity in Transportation

Denver Moves Everyone

June 8, 2022



Agenda







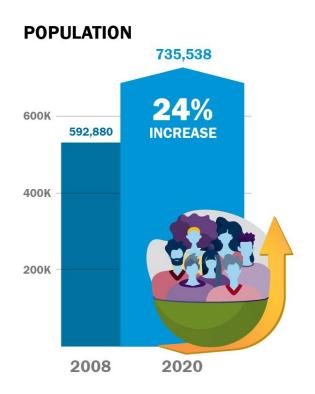
DME Overview

Defining the Issues – Health Equity in Transportation Moving Towards Transportation Equity



DME Overview

Why Plan Now?



Denver was the 5th fastest growing city in the US over past decade*

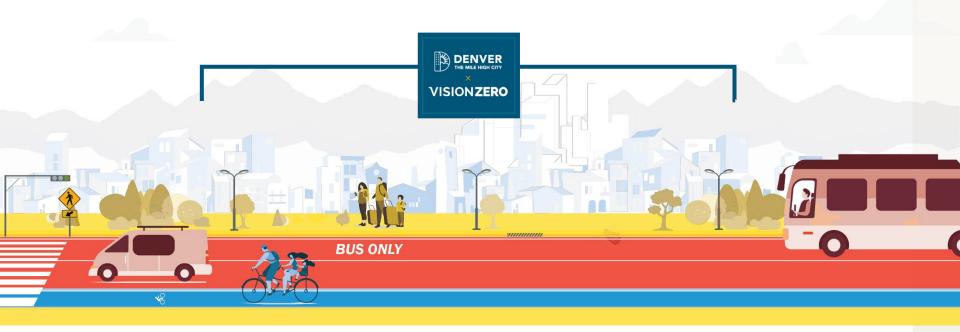
In 2020, listed as 2nd most gentrified city in the nation**

***\'----'>Gommunity Reinvestment Coalition, 2020.

..... EMIES Medicine

^{*}Source: 2020 US Census. US cities with population greater than 500,000 people.

Denver Moves Everyone – Planning the System











Denver Moves Everyone – Schedule











Setting the Foundation

Where are we **now**

what do we value?

Finding the Path Forward

Where are we **going** - and -

what do we want to be?

Programming & Phasing

How are we **getting there**?

Tracking Our Progress

How are we doing?



Defining the Health Equity Issues

RACIAL EQUITY AND THE CLIMATE CHALLENGE

- Climate Challenge funded grant and DOTI staff person
- Developing process to center equity in transportation climate planning
- Piloting Racial Equity Toolkit within Denver Moves Everyone
- Integrating lessons learned into final Toolkit

American Cities Climate Challenge





Diverse and Inclusive Voices

DIVO approach successful in increasing reach to people of all backgrounds



Diverse and Inclusive Voices Committee



Targeted Grassroots Events



Creative Input Sessions





LET'S GET MOVING.

Denver Moves Everyone 2050 | **State of the System**

March 2022





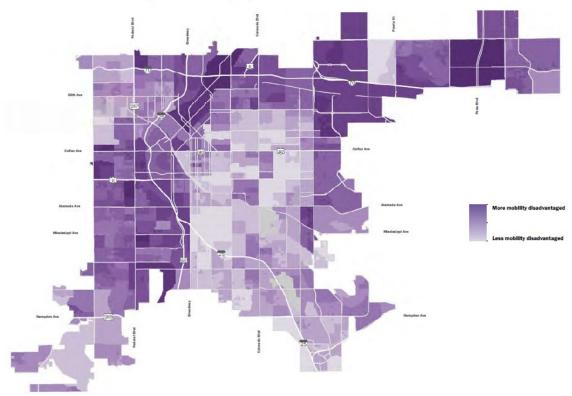


DENVER MOVES EVERYONE 38

Our Vision to Move People, **Goods & Services**

Understanding Inequities

MAP 1.1: Denver Priority Areas for Equity

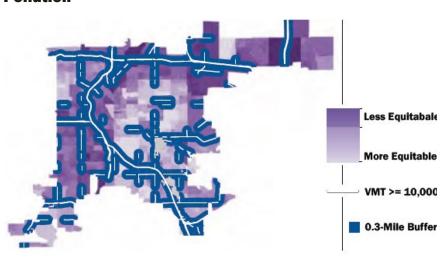


DOTI'S 2020 EQUITY INDEX FACTORS

- + Race and ethnicity
- + Older adults and persons with disabilities
- + Households with a single female caregiver
- + Poverty levels and employment status levels
- + Educational attainment and language spoken at home
- + Households without vehicle access and household transportation costs
- + Traffic safety outcomes
- + Proximity of youth to schools and recreation centers
- + Public health indicators of obesity and asthma

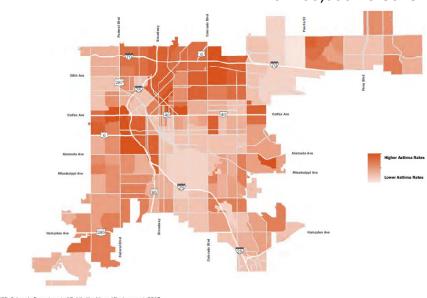
HEALTH AND EQUITY

Denver Neighborhoods Impacted by Air Pollution



SOURCE: EPA AirNow, 2021

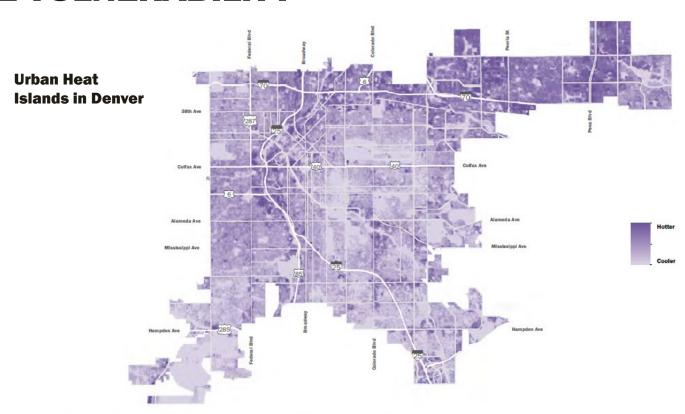
Age-Adjusted Asthma Hospitalization Rate Per 100,000 Persons







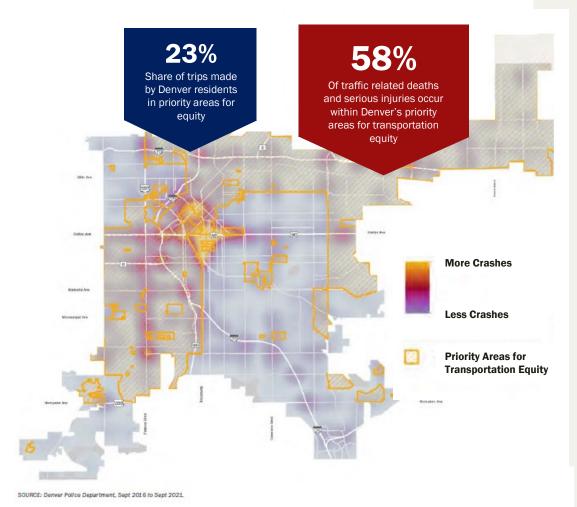
CLIMATE VULNERABILITY



SOURCE: City and County of Denver, Office of Climate Action, Sustainability, and Resiliency, 2021



SAFETY AND EQUITY

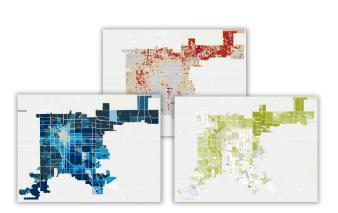


Moving Towards Transportation Equity

Outcome-Based Measures

Project Needs x Project Benefit = Score

- Data representing existing conditions
- GIS-based analysis



- Data-based assessment of potential project benefits
- Factors based on project type

 Final scoring value







Public Priority Input

7,500 + Denverites

co-created vision and goals.











Equity

Public and Partner Priorities

Thousands told us what to prioritize to achieve our goals.

Reliability

Choices

Affordability

Slow Streets

Comfort

Security

Climate Change

Air Quality

Public Health

Connectivity

Reimagine Streets

Communities and Cultures

Targeted Repair in Areas of Need

Well-Maintained Infrastructure

Informed Measures

Projects scored on measures within each DME goal. Equity measures (designated with 'E') to emphasize and weight elimination of inequities.























Scoring Recommendations





Tracking Equitable Outcomes

















VISION

Set Our Future Transportation Vision



30 YEARS

OUTCOMES

Communicate to **Residents What We Will Achieve**



UP TO 30 YEARS

20% Walk & Bike Mode Share

GOALS

Elevate Public. DOTI, CCD, and **Partner Priorities**



10-30 YEARS

Mobility

OBJECTIVES

Support Critical Actions For Every Goal - SMART



0-10 YEARS THEN UPDATED

200 Bikeway Miles by 2030

METRICS

Define Success and Track Progress



0-5 YEARS THEN UPDATED

30 Miles Annually



Thank You

Taylor Phillips | Associate City Planner 913.244.1631 | taylor.phillips@denvergov.org



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Today's presenters



Kelly Rodgers kelly@thinkstreetsmart.org STREET **SMART**



Nissa Tupper Nissa.Tupper@state.mn.us









Taylor Phillips taylor.phillips@denvergov.org





Sciences Engineering Medicine

Update Events for you

May 21 – June 2, 2022

Conference on Sustainability and Emerging Transportation Technology

August 29-31, 2022

TRB's Tools of the Trade
Conference

https://www.nationalacademies.org/tr b/events



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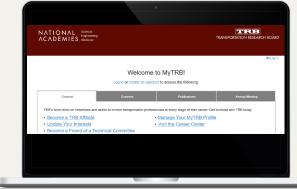
Making our work accessible

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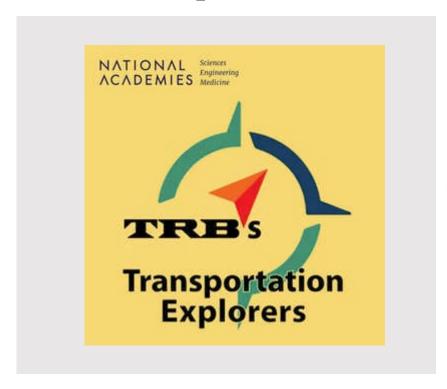
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