Statewide Multimodal Transportation Plan

20-Year State Highway Investment Plan































MINNESOTA GO

Update for the Association of Minnesota Counties Transportation & Infrastructure Policy Committee

September 2022



Minnesota GO 50-year Vision

What are we trying to achieve?

Statewide Multimodal Transportation Plan

How are we going to achieve it?

Modal and System Plans

What does that mean for each type of transportation?

< Considered by the State Highway Investment Plan >



Greater Minnesota Transit Investment Plan



Pedestrian Plan



Bicycle Plan



State Highway Investment Plan



Freight System Plan



Aviation Plan



Rail Plan



Ports & Waterways Plan

< Considered by the Freight System Plan >

Statewide Multimodal Transportation Plan (SMTP)



- Developed by MnDOT, but covers all transportation
- Overarching objectives, strategies and performance measures for <u>all modes</u>
- Updated every five years
- Draft currently out for public review and comment



Objectives

- Open Decision Making
- Transportation Safety
- System Stewardship
- Climate Action
- Critical Connections
- Healthy Equitable Communities





What Hasn't Changed

What has stayed the same

- Ensuring inclusive and collaborative decision making
- Providing safe and convenient movement of people and goods
- Preserving the existing system while considering strategic improvements
- Leveraging transportation investments for economic vitality
- Considering social and environmental impacts





What is New

Climate





Shift to more climate-friendly transportation options

- Reduce greenhouse gas emissions
- Encourage use of zero emission vehicles
- Improve system resiliency



Equity





Implement equity in transportation decision making

- Commitment to transportation equity
- Develop transportation equity performance measures



Health





Improve health outcomes and reduce disparities

- Evolve approach to transportation safety
- Support walking and bicycling
- Address urban heat islands



Measuring Transportation Performance:

VMT in Context

Safety (fatalities + serious injuries) **Decrease** Increase access for transportation carbon walking emissions **Improving** Promoting Safety Equity **Increase electric Increasing** Improve transit vehicle access reliability **Options** Supporting healthy communities Increase access for Increase transit biking ridership in MN

Measure

Key measures where MnDOT has influence

Outcome

Important outcomes to the agency and stakeholders



14% per capita VMT reduction by 2040 target aligns with local and national efforts

Local

Hennepin County: -26% by 2050

(per capita from 2017 baseline)

Minneapolis: -21% by 2030

Eden Prairie: -14% by 2050

(per capita from 2017 baseline)

St. Louis Park: -12% by 2030

(per capita from 2014 baseline)

St. Paul: -40% by 2040

(reduction of single occupancy vehicle travel demand)

National

California: -15% by 2050

(from 1990 baseline)

Colorado: -10% by 2030

Delaware: -20.4% from 2010

Maine: -20% by 2030

(light-duty VMT)

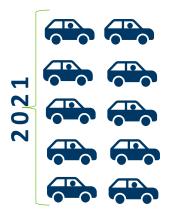
Washington: -50% by 2050

(light-duty VMT, per capita)



How this can provide day-to-day options





- Tom drives daily for work and school
- Broadband isn't reliable
- Safe walking options are limited

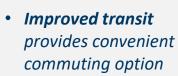


- Broadband improvements allow teleworking
- New sidewalks and safer crossings give access to walk to school most days





- Jennifer drives daily to work every day and to run errands
- Interested in commuting by transit sometimes and walking for errands, but doesn't see options

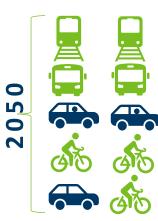


- Broadband allows teleworking
- Safer crossings give access to walk to the grocery store

URBAN EXAMPLE







- Abby owns a car but prefers using public transit or biking to fit in exercise and save money
- Routes between work, home, and school require travel on busy streets, doesn't feel the safest
- New BRT provides a reliable home to school route
- New protected bike lanes offer a safe, convenient work commute option

Draft Available for Public Comment

Submit comments by September 18 via email, mail or at www.MinnesotaGO.org



What is MnSHIP?



Directs capital funding on the 11,703 miles of state highways



Budgets for estimated funding over 20 years



Identifies investments by categories but is not project specific



Part of the Minnesota GO Family of Plans









How to provide feedback today

www.menti.com







Why does MnSHIP matter?

MnSHIP investment direction guides the planning of projects and improvements on the state highway system

MINNESOTA GO 50-YEAR VISION

Statewide Multimodal Transportation Plan



20-Year State Highway Investment Plan



10-YEAR CAPITAL HIGHWAY INVESTMENT PLAN (CHIP)

Project planning and development
Updated annually

4-YEAR STATE TRANSPORTATION IMPROVEMENT PROGRAM (STIP)

Project design and its program

CONSTRUCTION

100 Years of Highways

- Minnesota's state highway system recently turned 100!
- History of system is complex
- State highways improved access between cities and towns throughout the state – supporting economic growth and vitality
- Construction of state highways also divided, disconnected and destroyed some communities
- Vehicle emissions contribute to climate change
- Much has changed in 100 years and more will change in the future.
 We need to ensure the benefits and burdens of future
 transportation decisions are equitable and work towards reducing
 existing inequities.

MnSHIP Revenues

FEDERAL FUNDING

Federal Fuel Tax
General Fund Transfers

State Gas Tax

Registration Tax and Fees

Motor Vehicle Sales Tax

General Fund Transfers STATE HIGHWAY USER TAX DISTRIBUTION FUND

STATE TRUNK
HIGHWAY FUND

DEBT SERVICE

STATE ROAD CONSTRUCTION (MnSHIP)

OPERATIONS & MAINTENANCE

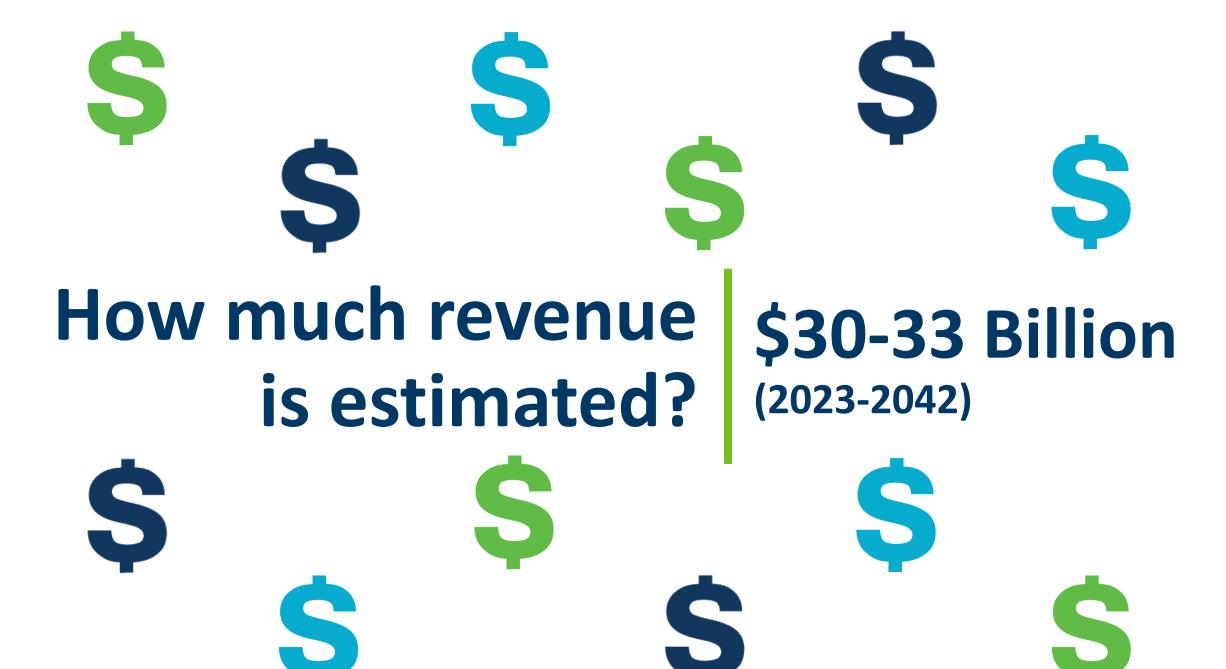
LOCAL DISTRIBUTION

County State Aid: Highways

Municipal State Aid: Streets

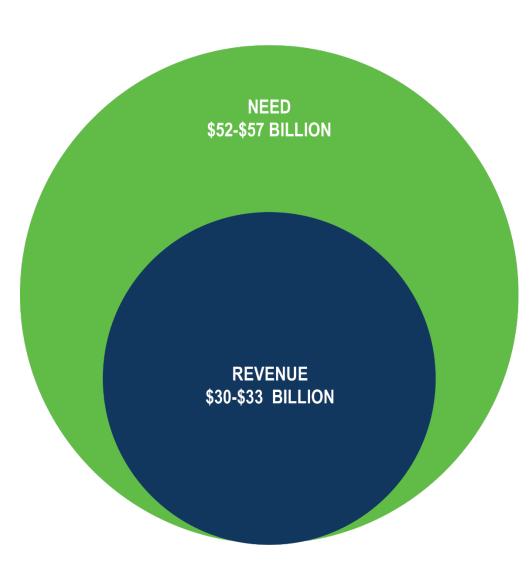
Non-State Highway Network

EXISTING TRUNK HIGHWAY BONDS



Revenue vs. Need

- MnDOT is projecting a funding gap of between \$19 - \$27 billion
- Increase due to several factors
 - Projected costs of inflation
 - Refined and more thorough planning processes
 - New state goals in areas such as pedestrian and bicycle facilities and freight
- Low end of estimated need reflects Minnesota successfully achieving preliminary goals of reducing per capita Vehicle Miles Traveled (VMT)
- In addition to the needs identified by MnDOT, cities and counties have identified \$5-6 billion in priority investments on the state highway system



























Provide feedback today

Mentimeter

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Code: 8066 0114





What are the top five improvements you feel are most important?

- Improve readiness for changing transportation technology
- Improve condition of bridges through more repair and replacement projects
- Adapt infrastructure to resist damage from extreme weather events and improve resilience
- Add more freight mobility and safety improvements
- Focus on reducing unexpected travel delays through mobility and capacity improvements
- Partner with cities and counties to address quality of life and economic development

- Focus on addressing improvements in urban areas including small towns and main streets
- Maintain and expand pedestrian and bicycle infrastructure including making it accessible for all
- Maintain smooth driving surface through more repair and reconstruction projects
- Maintain rest areas for the safety and health of travelers and truck drivers
- Improve condition of other roadside infrastructure like signals, culverts, lighting, walls and guardrail
- Add new safety improvements

www.menti.com Code: 8066 0114

[Go to Mentimeter results]



Which approach best aligns with your vision for the state highway system?



"I'd like to see the existing system maintained first before expanding or adding to the system. A smooth road surface when driving is most important. Roads which become rough should not stay that way for long."

Adapt to
Changing
Technology
and Climate

Improve
Mobility for All
Highway Users

Prioritize
Pavements
(Current Approach)

Prioritize Bridges

Prioritize
Highway Capacity
Expansion

Adapt to Changing **Technology** and Climate **Improve Mobility for All Prioritize Highway Users Bridges Prioritize Pavements** (Current Approach) **Prioritize** Focus on Safe **Highway Capacity** and Equitable **Expansion Communities**

"Whatever additional resources are available should be put towards improving and maintaining bridges.

MnDOT should not be in a position where it would need to close or limit traffic on bridges because they need repairs."

Improve
Mobility for All
Highway Users

Prioritize
Pavements
(Current Approach)

Prioritize Bridges

Prioritize
Highway Capacity
Expansion

Focus on Safe and Equitable Communities

"Highways should be safer for people to use, including for walking and bicycling.
Improvements on highways should support strategies for reconnecting divided communities and other livability improvements."

Improve
Mobility for All
Highway Users

Prioritize
Pavements
(Current Approach)

Prioritize Bridges

"In the future, there needs to be fewer delays and less congestion. Population continues to grow and MnDOT should be planning for and accommodating the increase in vehicle traffic."

Prioritize
Highway Capacity
Expansion

"Minnesota is growing but we cannot build ourselves out of traffic congestion. In addition to addressing vehicle mobility, the highway system needs improvements for freight and for people walking, bicycling, and taking transit."

Improve
Mobility for All
Highway Users

Prioritize
Pavements
(Current Approach)

Prioritize Bridges

Prioritize
Highway Capacity
Expansion

"Highways should be made more resistant to the growing extreme weather events and support changing transportation technology. Highways also need to be designed to support more walking and bicycling."

Improve Mobility for All Highway Users

Prioritize
Pavements
(Current Approach)

Prioritize Bridges

Prioritize
Highway Capacity
Expansion

"I'd like to see the existing system maintained first before expanding or adding to the system. A smooth road surface when driving is most important. Roads which become rough should not stay that way for long."

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[Go to Mentimeter results]

What else would you like us to know?



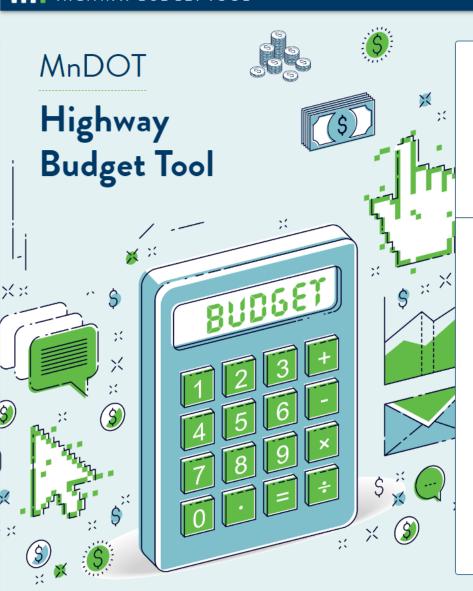
Create your own approach!

Go to:

www.minnesotago.org/investment/

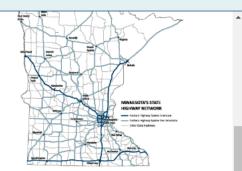
Highway Budget Tool

MI HIGHWAY BUDGET TOOL



How do we come up with our budget?

Like you, MnDOT has a budget for its expenses. We all make responsible decisions to spend money on our basic needs—shelter, food, clothing. MnDOT makes responsible decisions to spend money to maintain the state highway system to a basic level of performance. We have to make tough decisions on how to spend resources in the most efficient and effective ways. Planning activities like the Minnesota State Highway Investment Plan help guide these decisions.



Tell us about yourself!

Our goal is to get input from a wide range of people. We are collecting demographic information to identify who we're hearing from. Providing data is optional, however, by answering you will be helping MnDOT understand the needs and preferences of the diverse communities that MnDOT serves. Your responses will not be associated with you, personally.

Age	Are you of Hispanic descent?	
		~
What describes your racial/ethnic background?	What best describes how you thi	ink of yourself?
		•
Zip Code		
	Get started →	

MINNESOTA GO Translate This Site

Highway Budget Tool – How to start?



Comment

Instructions

← Back

Choose how you want to start

Select a starter scenario



Take approximately 3 minutes to adjust the allocations for an established scenario



Prioritize Pavement / Current Approach



Prioritize Bridges



Adapt to Changing Technology and Climate



Prioritize Highway Capacity Expansion



Improve Mobility for All Highway Users



Focus on Safe and Equitable Communities

Start with the minimum investment



Take approximately 10 minutes to create a custom investment scenario from scratch

Add investments to see your baseline budget scenario.



\$30 - 33B

Available Budget

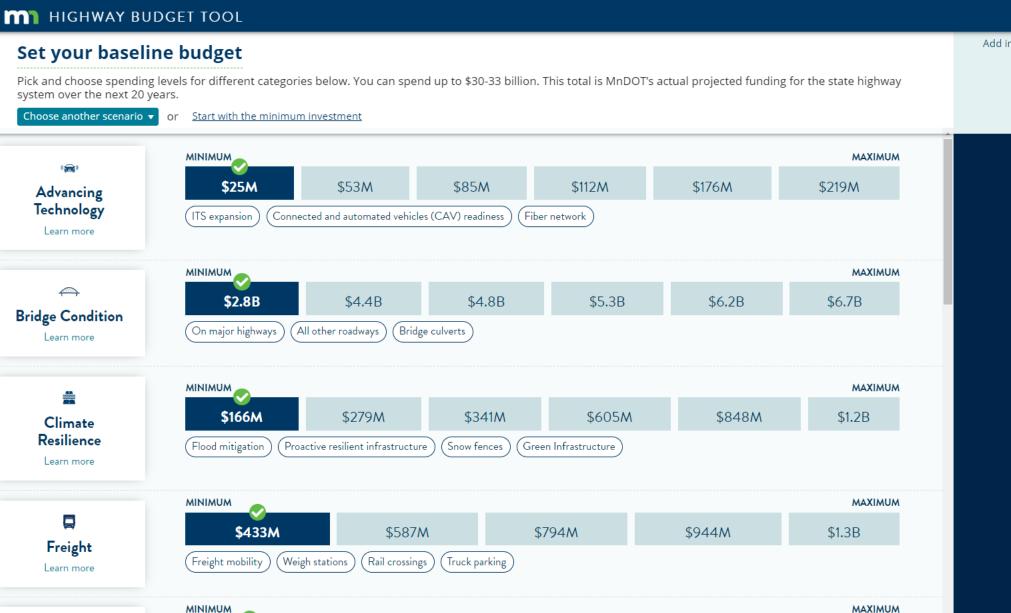
\$23.5B

\$23.5B MINIMUM INVESTMENT

\$0

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Start from the minimum levels...



Add investments to see your baseline budget scenario.

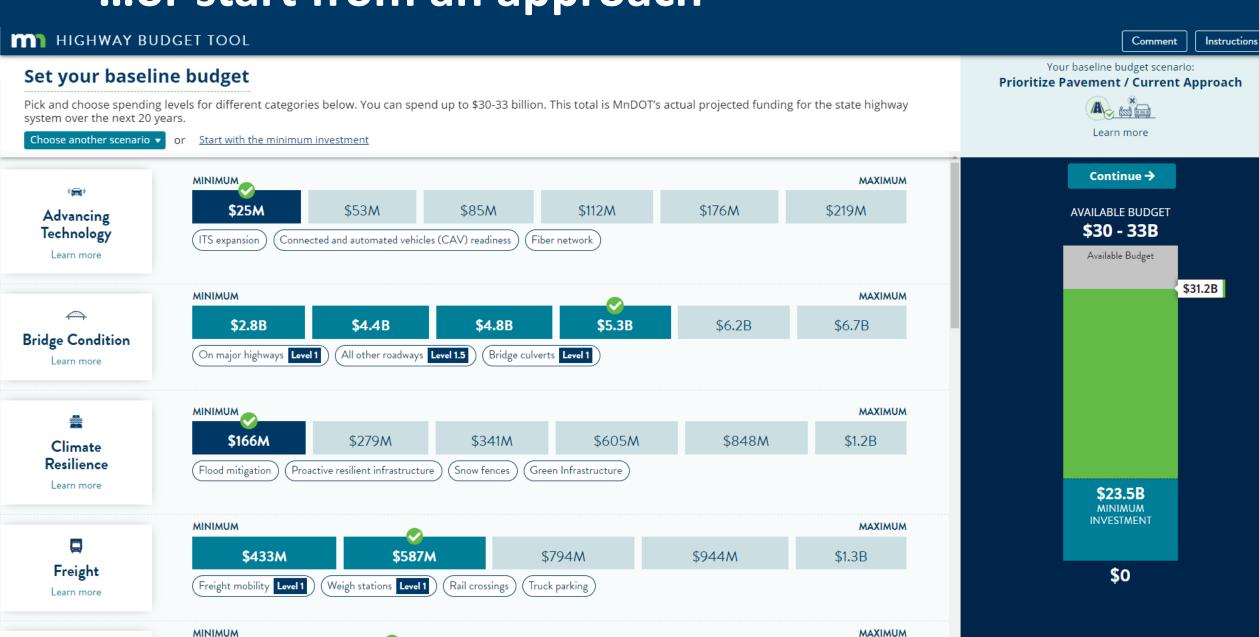


Comment

Instructions



...or start from an approach

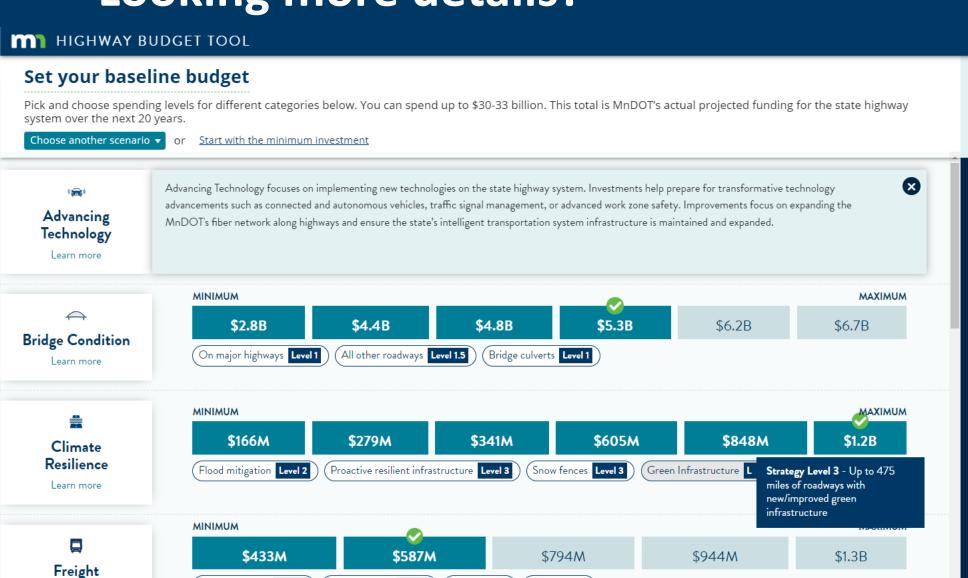


Looking more details?

Freight mobility Level 1

MINIMUM

Weigh stations Level 1



Rail crossings

Truck parking

Your baseline budget scenario: **Custom**

Comment



Continue →

AVAILABLE BUDGET \$30 - 33B

Available Budget

\$32.2B

Instructions

\$23.5B MINIMUM INVESTMENT

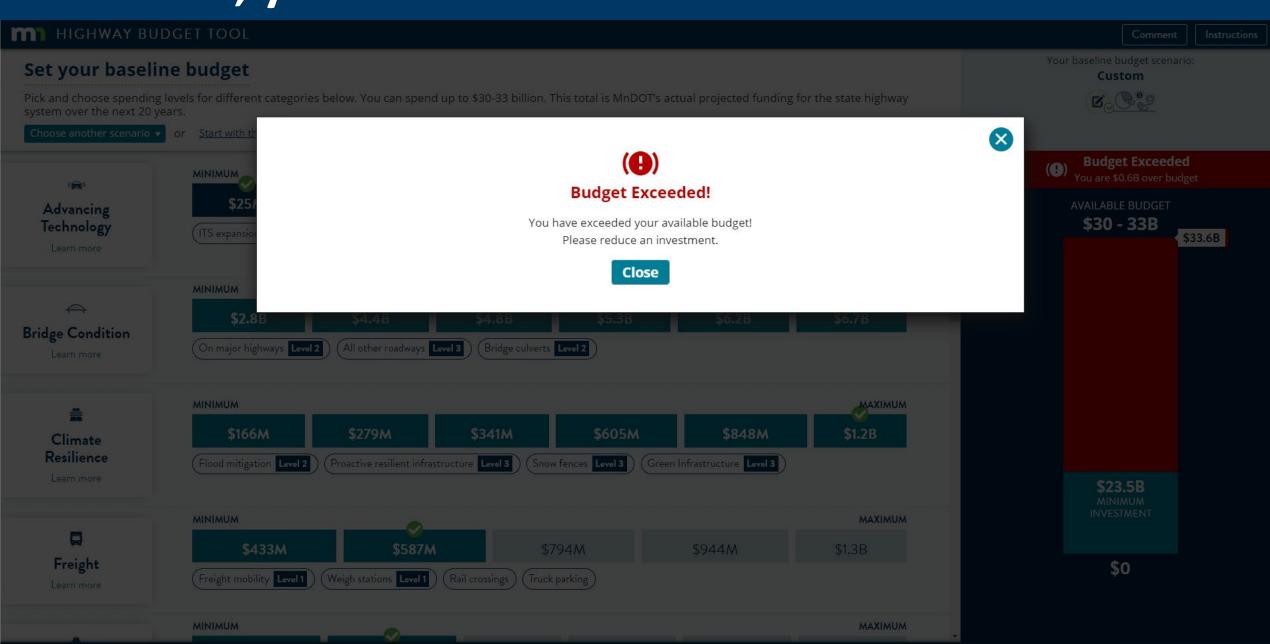
\$0

MAXIMUM

Learn more

Uh-oh, you went over!

MINNESOTA GO



Help us spread the word!

- Share the link to the online investment budgeting tool www.minnesotago.org/investment/
- Follow MnDOT on social media and share MnSHIP posts
- Sign up for e-mail updates
- Request a presentation for your organization
- We're also traveling around the state attending community events







MnSHIP Timeline

- July September 1st public engagement period
- Fall 2022 Compile a draft investment direction
- Winter 2023 2nd public engagement period
 - Present and gather feedback on draft investment direction
 - Identify priorities for +\$2 B and +\$6 B increasing revenue investment directions
- Spring/Summer 2023 Compile draft plan and seek public comment
- Late Summer 2023 Adopt final plan

www.minnesotago.org

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