

20-Year State Highway Investment Plan



MINNESOTA GO

Met Council TAC Meeting

July 6, 2022

What are we planning for? What is MnSHIP?

SEPTEMBER 2022

20-YEAR STATE HIGHWAY INVESTMENT PLAN



Identifying priorities for investing in state highways to maintain and improve the system over the next 20 years.

MINNESOTA **GO**

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



Why MnSHIP matters?

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)**

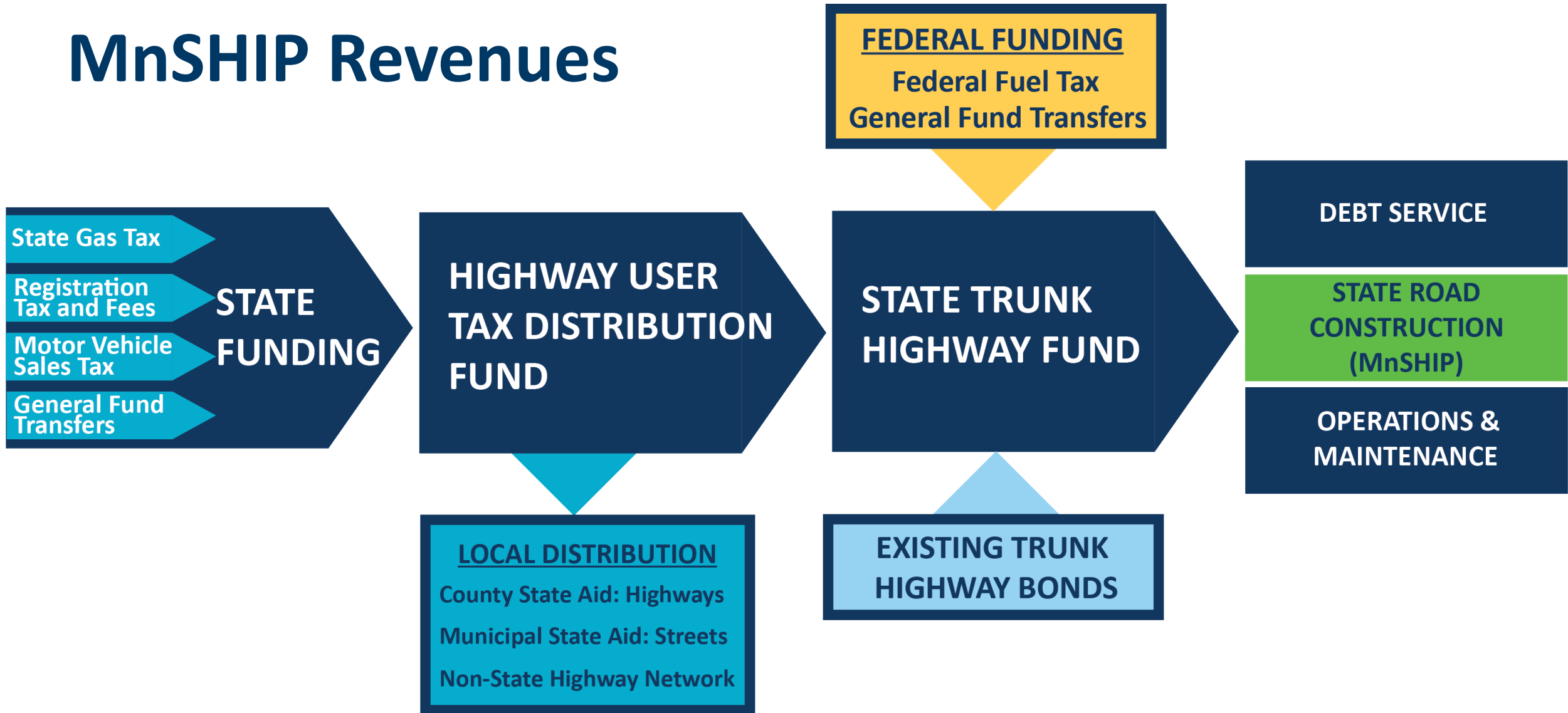
Project design and its program

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
- 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



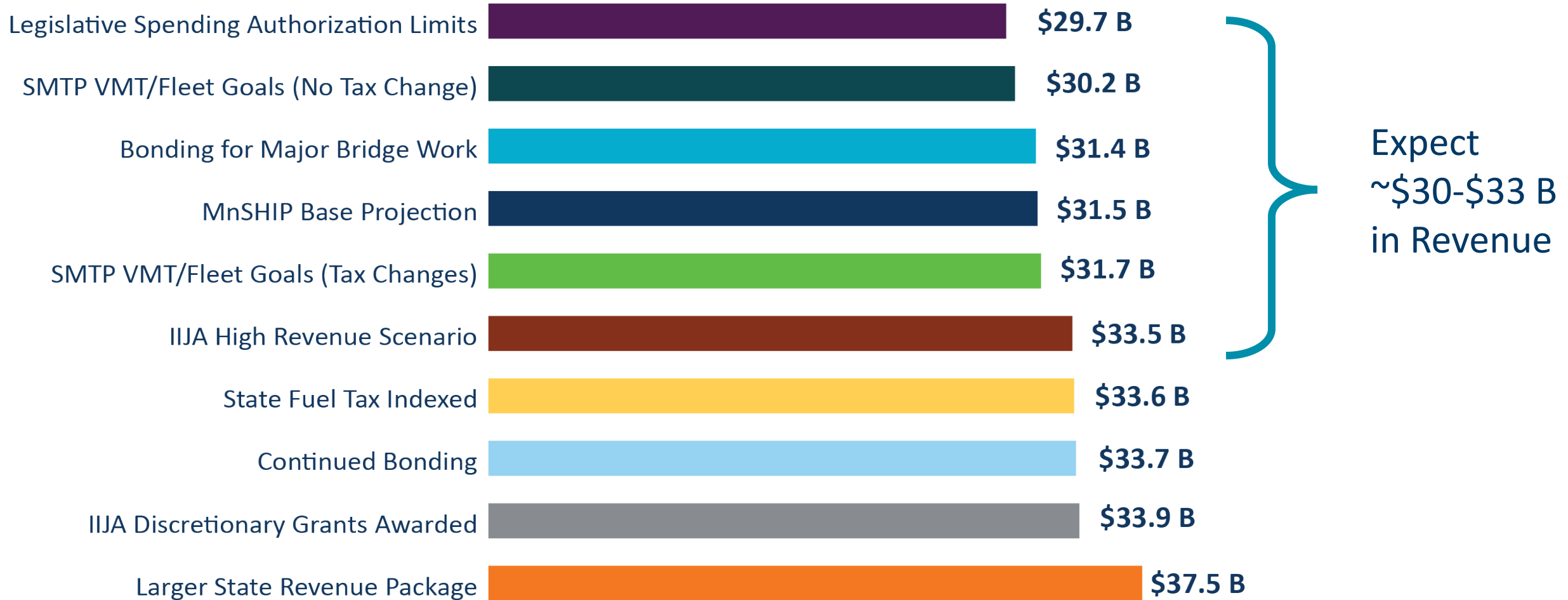


**How much revenue
is estimated?**

\$30-33 Billion
(2023-2042)



Revenue Scenarios



Incorporating New IIJA Programs

- **Bridge Condition** – Federal bridge program
 - Assumes program does not continue post-IIJA
 - *Aligns with revenue assumptions*
- **Climate Resilience** – PROTECT Program
 - Assumes only 50% of program directed towards trunk highway improvements
 - *Aligns with revenue assumptions*
 - Program replaces existing proposed proactive climate resilient infrastructure program

SYSTEM STEWARDSHIP

Pavement Condition

Bridge Condition

Roadside Infrastructure

Rest Areas

CLIMATE ACTION

Climate Resilience

Incorporating New IIJA Programs (cont'd)

- **Transportation Safety** – Federal HSIP
 - Incorporate IIJA HSIP funding increase
 - Lower MnDOT share from 40% to 30%
- **Local Partnership** – State match for non-SRC funded/non-state led projects on state highways
 - Accommodates the need for increased state match for IIJA discretionary grant matches
- No change in National Highway Freight Program funding
- Carbon reduction program and EV infrastructure programs not incorporate in investment categories
 - Programming Update Workgroup and Climate Resilience Workgroup are working on IIJA distribution

TRANSPORTATION SAFETY

Transportation Safety
Advancing Technology

CRITICAL CONNECTIONS

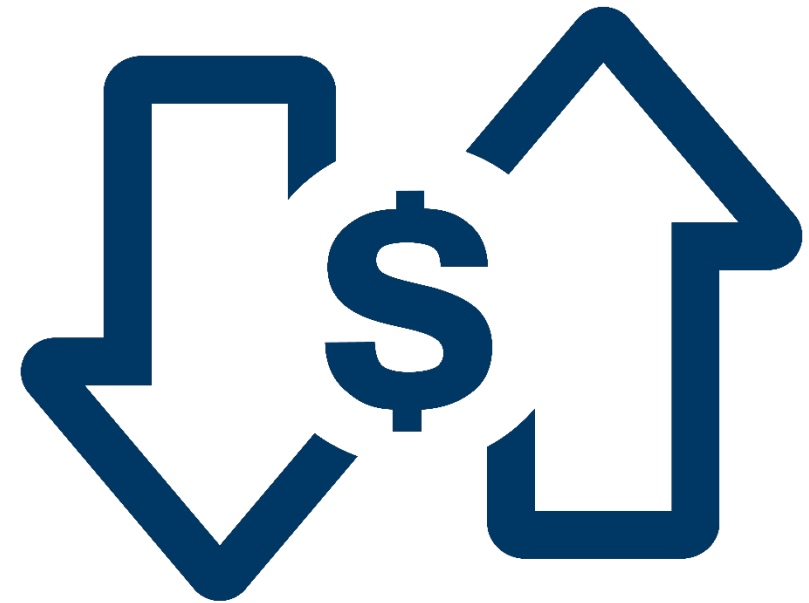
Highway Mobility
Freight
Pedestrian and Bicycle

HEALTHY EQUITABLE COMMUNITIES

Local Partnerships
Main Streets/Urban Pavements

Discussion of Priorities and Trade-Offs

- Estimated \$30-\$33 billion available for the state highway system over the next 20 years
- A minimum of \$23.5 billion is needed to manage highest risks and meet obligations and requirements in each category
- An estimated \$7-\$9 billion of remaining funding is available for additional improvements or outcomes



We need your input!

MnSHIP Highway Budget Tool

coming soon!

(Currently in testing for release next week. We will share the link with TAC members when it goes live)

Highway Budget Tool

mn HIGHWAY BUDGET TOOL

MnDOT

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 think of yourself?

Zip Code

Get started →

Highway Budget Tool – How to start?

[← 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.



AVAILABLE BUDGET

\$30 - 33B

Available Budget

\$23.5B
MINIMUM
INVESTMENT

\$23.5B

\$0

Start from the minimum levels...

Set your baseline budget

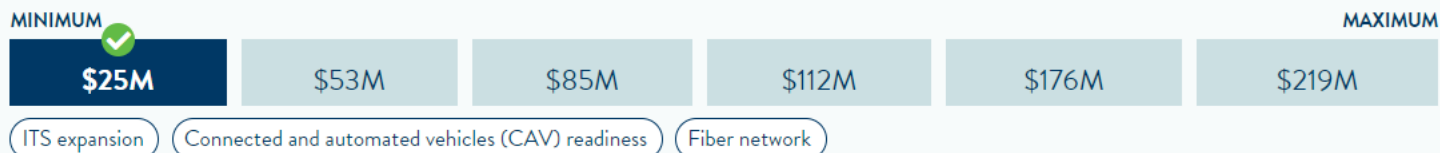
Pick and choose spending levels for different categories below. You can spend up to \$30-33 billion. This total is MnDOT's actual projected funding for the state highway system over the next 20 years.

[Choose another scenario](#) or [Start with the minimum investment](#)

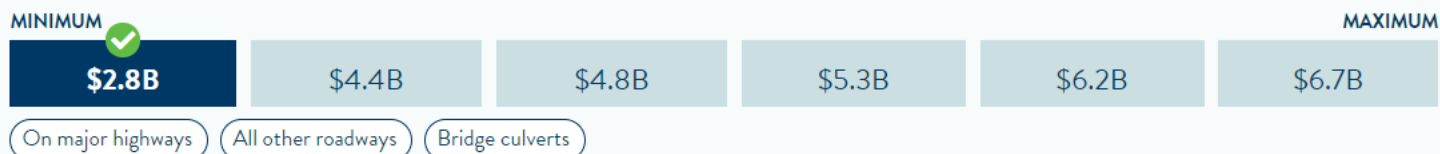
Add investments to see your baseline budget scenario.



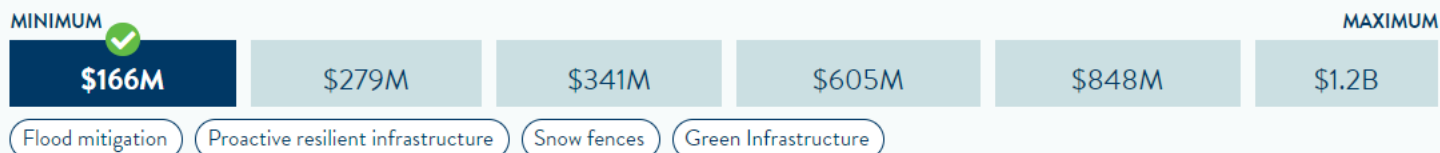
Advancing Technology
[Learn more](#)



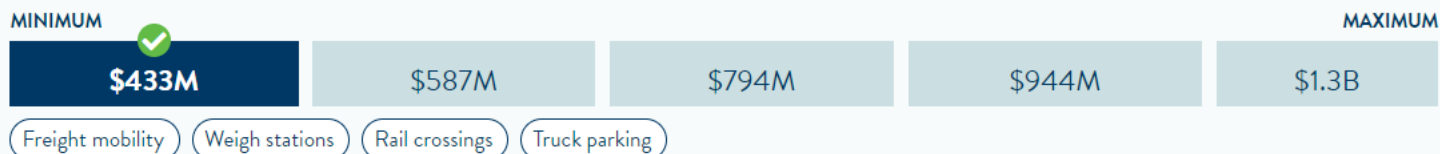
Bridge Condition
[Learn more](#)



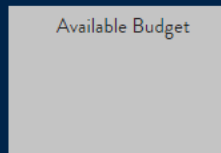
Climate Resilience
[Learn more](#)



Freight
[Learn more](#)



AVAILABLE BUDGET
\$30 - 33B



\$23.5B
MINIMUM INVESTMENT

\$0

\$23.5B

...or start from an approach

Set your baseline budget

Pick and choose spending levels for different categories below. You can spend up to \$30-33 billion. This total is MnDOT's actual projected funding for the state highway system over the next 20 years.

[Choose another scenario](#) or [Start with the minimum investment](#)

Your baseline budget scenario:
Prioritize Pavement / Current Approach



[Learn more](#)

[Continue](#) →

AVAILABLE BUDGET
\$30 - 33B

Available Budget

\$31.2B

\$23.5B
MINIMUM INVESTMENT

\$0

Advancing Technology

[Learn more](#)

MINIMUM

\$25M

\$53M

\$85M

\$112M

\$176M

\$219M

MAXIMUM

ITS expansion

Connected and automated vehicles (CAV) readiness

Fiber network

MINIMUM

\$2.8B

\$4.4B

\$4.8B

\$5.3B

\$6.2B

\$6.7B

MAXIMUM

On major highways **Level 1**

All other roadways **Level 1.5**

Bridge culverts **Level 1**

MINIMUM

\$166M

\$279M

\$341M

\$605M

\$848M

\$1.2B

MAXIMUM

Flood mitigation

Proactive resilient infrastructure

Snow fences

Green Infrastructure

MINIMUM

\$433M

\$587M

\$794M

\$944M

\$1.3B

MAXIMUM

Freight mobility **Level 1**

Weigh stations **Level 1**

Rail crossings

Truck parking

MINIMUM

MAXIMUM

Looking more details?

Set your baseline budget

Pick and choose spending levels for different categories below. You can spend up to \$30-33 billion. This total is MnDOT's actual projected funding for the state highway system over the next 20 years.

Choose another scenario ▼ or [Start with the minimum investment](#)

Your baseline budget scenario:

Custom



Continue →

AVAILABLE BUDGET

\$30 - 33B

Available Budget

\$32.2B

\$23.5B
MINIMUM INVESTMENT

\$0

Advancing Technology

Learn more

Advancing Technology focuses on implementing new technologies on the state highway system. Investments help prepare for transformative technology advancements such as connected and autonomous vehicles, traffic signal management, or advanced work zone safety. Improvements focus on expanding the MnDOT's fiber network along highways and ensure the state's intelligent transportation system infrastructure is maintained and expanded.

MINIMUM



MAXIMUM

On major highways **Level 1** All other roadways **Level 1.5** Bridge culverts **Level 1**

MINIMUM

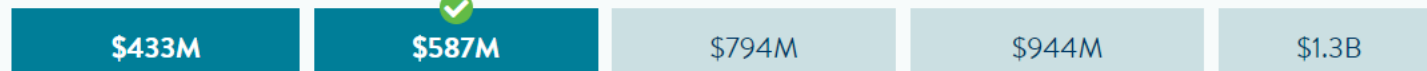


MAXIMUM

Flood mitigation **Level 2** Proactive resilient infrastructure **Level 3** Snow fences **Level 3** Green Infrastructure **Level 3**

Strategy Level 3 - Up to 475 miles of roadways with new/improved green infrastructure

MINIMUM



MAXIMUM

Freight mobility **Level 1** Weigh stations **Level 1** Rail crossings Truck parking

MINIMUM

MAXIMUM

Uh-oh, you went over!

Set your baseline budget

Pick and choose spending levels for different categories below. You can spend up to \$30-33 billion. This total is MnDOT's actual projected funding for the state highway system over the next 20 years.

Choose another scenario or Start with the

Your baseline budget scenario:

Custom



Advancing Technology
Learn more

Bridge Condition
Learn more

Climate Resilience
Learn more

Freight
Learn more

MINIMUM

\$25A

MINIMUM

\$2.8B

\$4.4B

\$4.8B

\$5.3B

\$6.2B

\$6.7B

MINIMUM

\$166M

\$279M

\$341M

\$605M

\$848M

\$1.2B

MAXIMUM

MINIMUM

\$433M

\$587M

\$794M

\$944M

\$1.3B

MAXIMUM

MINIMUM

MAXIMUM



Budget Exceeded!

You have exceeded your available budget!
Please reduce an investment.

Close

Budget Exceeded
You are \$0.6B over budget

AVAILABLE BUDGET

\$30 - 33B

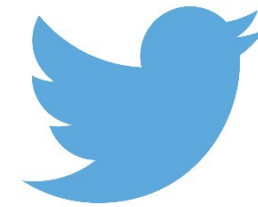
\$33.6B

\$23.5B
MINIMUM
INVESTMENT

\$0

Help us spread the word!

- Share the link to the online investment budgeting tool
- Follow MnDOT on social media and share MnSHIP posts
- Sign up for e-mail updates
- Request a presentation for your organization

A screenshot of the MnDOT Highway Budget Tool website. The page features a header with the MnDOT logo and the title 'Highway Budget Tool'. Below the header is a decorative graphic with a calculator, a dollar sign, and a map of Minnesota. The main content area is divided into two sections. The first section, 'How do we come up with our budget?', explains that MnDOT makes responsible decisions to spend money on basic needs and maintain the state highway system. The second section, 'Tell us about yourself!', includes a form with fields for Age, Are you of Hispanic descent?, What describes your racial/ethnic background?, What best describes how you think of yourself?, and Zip Code. A 'Get started' button is located at the bottom of the form. The footer of the page includes the Minnesota GO logo and a 'Translate This Site' link.

Timeline

- **Beginning soon through end of 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

Questions?

Thank you again!

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