



Grading and Technology Forum

Sue Mulvihill | Deputy Commissioner, Chief Engineer

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Major Projects



I-35W Downtown to Crosstown

Estimated project cost: \$239 million

Major Projects



Twin Ports Interchange

Estimated Project Cost: \$250 - \$275 million

Major Projects



Highway 14 expansion

Estimated Project Cost: \$138 million

Program Funding Outlook

2020-2023 STIP Investments – \$ in Millions (Does not include Corridors of Commerce Program)				
Investment Category	FY 2020	FY 2021	FY 2022	FY 2023
Pavement	525	417	493	529
Bridge	190	79	39	105
Safety	42	60	38	41
Major Construction	178	335	109	80
Other*	292	206	197	176
Total	1,227	1,097	876	931
*Other includes Right of Way, Consultant Agreement, Supplemental Agreement/Cost Overrun, Traffic Management, Rest Area Beautification, Enhancement, Noise Wall, and Misc. Agreement.				

Work Zone Crash Trends

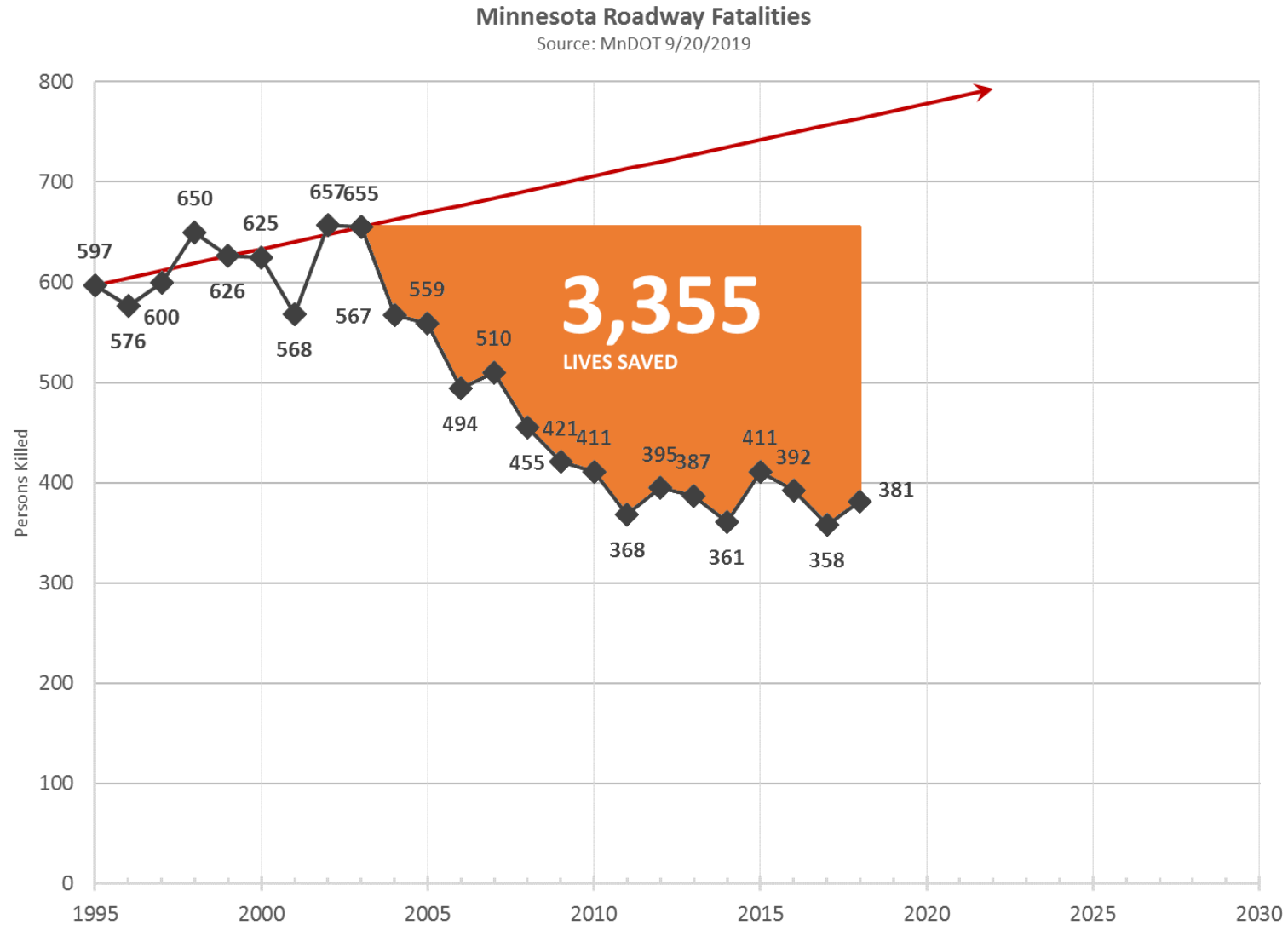
Work Zone Crashes Minnesota	2015	2016	2017	2018
Fatalities	12	13	9	9
Serious crashes	25	42	45	43
Totals (includes property damage crashes)	2,153	2,952	2,565	2,231

Work Zone Safety



- Four-hour flagger law
- Report drivers to law enforcement within 4 hours of incident
- 2019 legislation

Towards Zero Deaths



Communications - Advanced warnings



Communications - Advanced warnings

MnDOT's Regional Transportation Management Center (RTMC)

- Report all freeway lane or ramp closures
 - Metro District : 651-234-7093
 - Other Districts: 651-234-7089

RTMC staff will deploy messages on permanent CMS and ensure information on 511 is accurate



Communications - Advanced warnings

- **Intelligent Work Zones**

- Temporary Sensors
- Travel Times
- Queue Warning

- **Why We Do It**

- Provide information to motorists.
- Help travel decisions

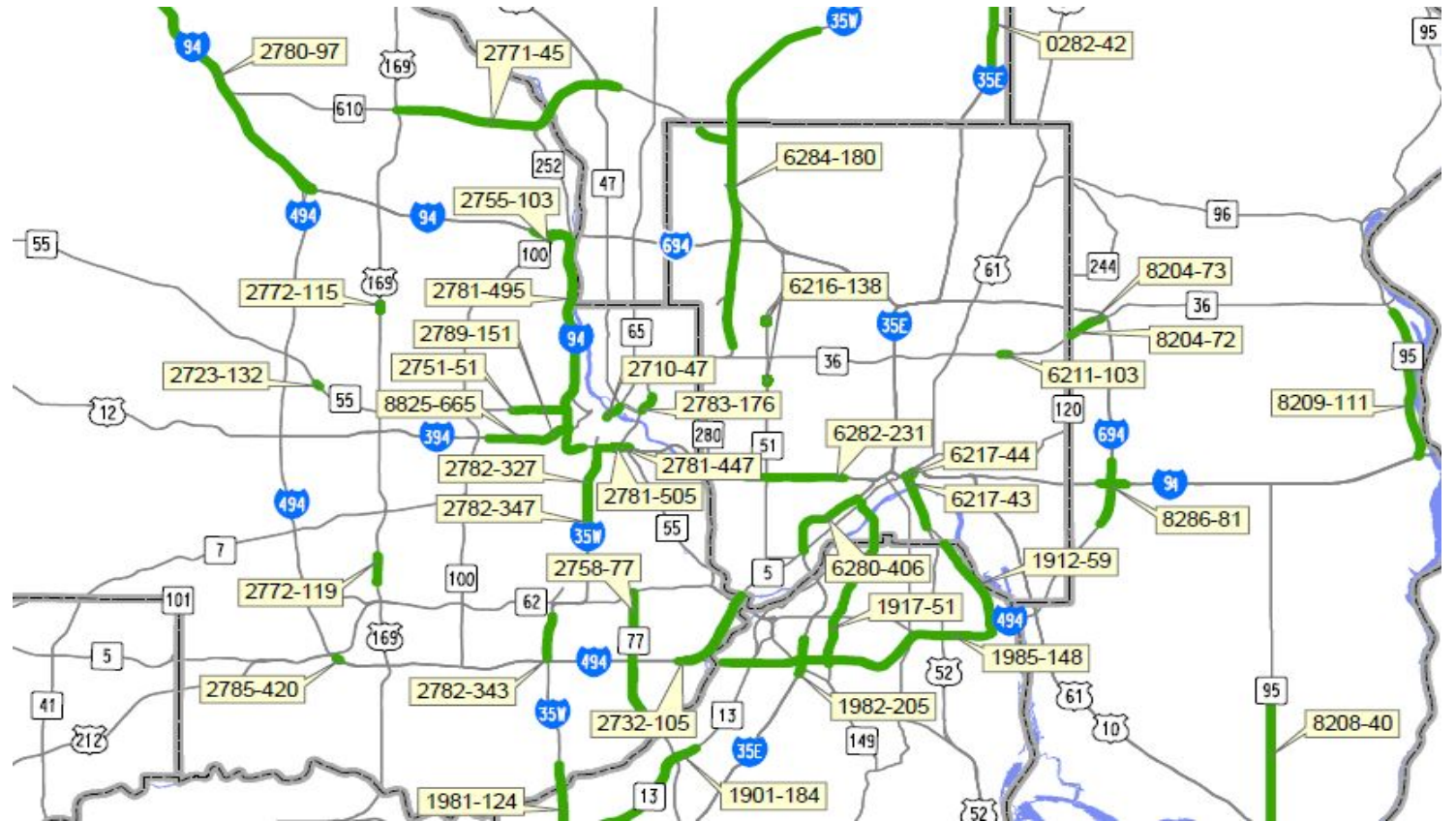


Coordination with other agencies and along parallel routes

2020 MnDOT construction projects in Metro

Important benefits:

- Minimize traffic impacts
- Maintenance work
- Improve expectations for motorists

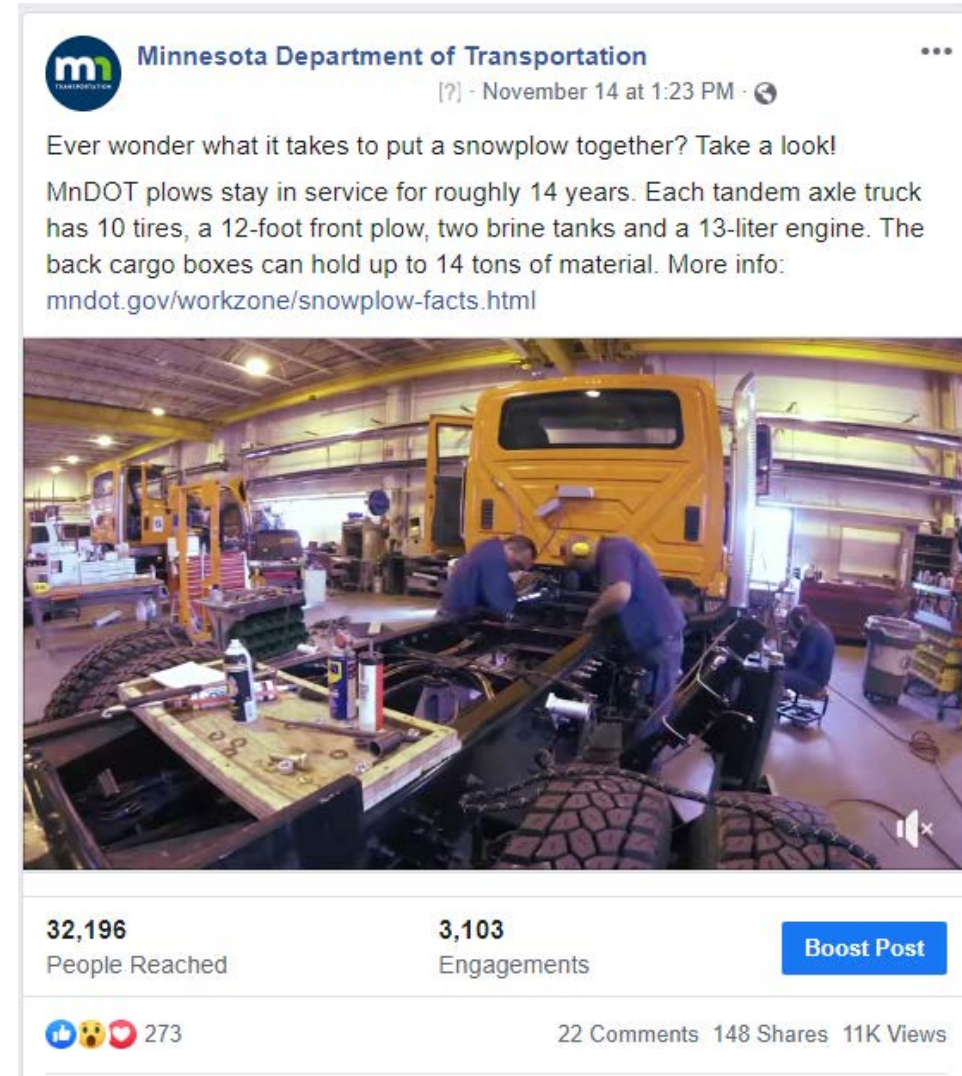


Traffic Management



Social Media

- **Tell our story**—explain what we do and who we are
- **Educate**—explain transportation topics in plain language
- **Engage**—answer questions and concerns
- **Emergency response**—closures, blizzards, flooding, etc.



Connected and Automated Technology

MnDOT Automated Maintenance Truck (AMT) Pilot Project



Innovations

- Construction equipment
- Methods
- Materials



Partnering

- Trust and open communication
- Identify common goals
- Find solutions to problems

Partnering tools

- Participate in pre-activity and weekly meetings
- Don't play blame game
- Create dispute ladder to resolve issues
- Use professional facilitator when necessary

- Challenges ahead
 - Technology changes
 - Training needed
 - Retirements
 - Competition for qualified workers



STEM Outreach



Working Together



thank
you!

Your help matters!

Questions?

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