



# Opportunities and Strategies for Funding CAV Projects

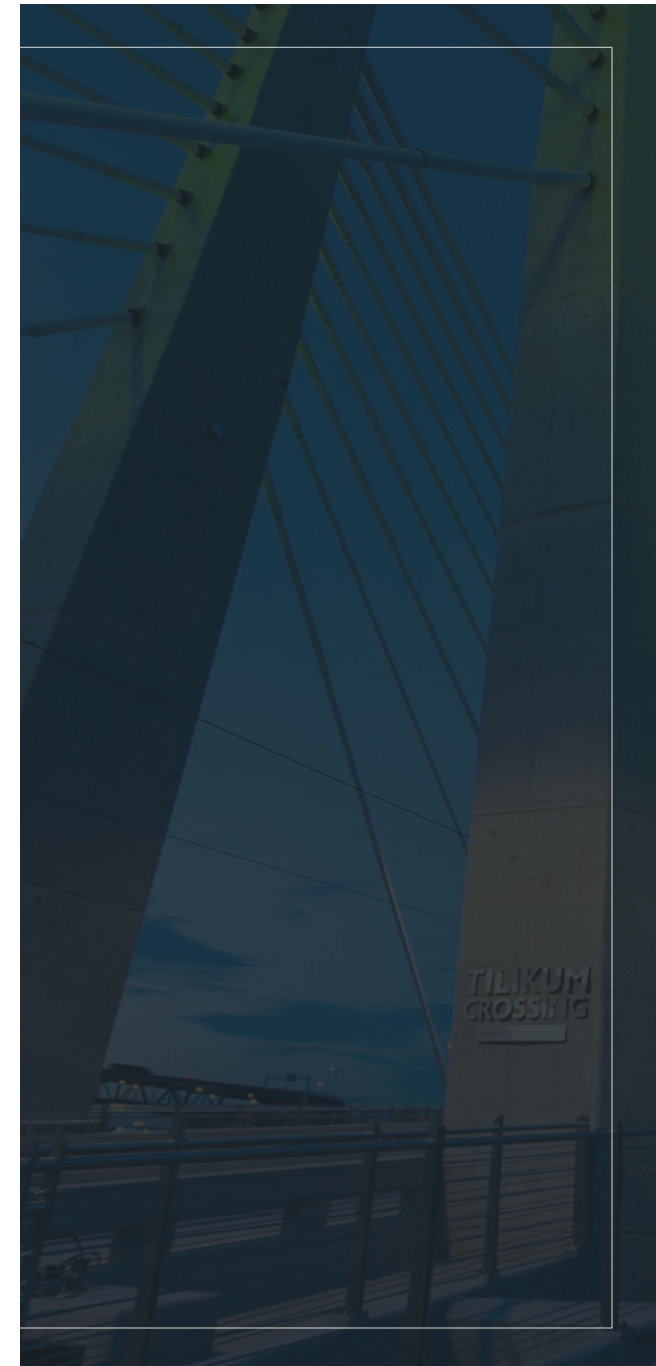


**HNTB**

MAASTO CAV Conference  
Coralville, Iowa

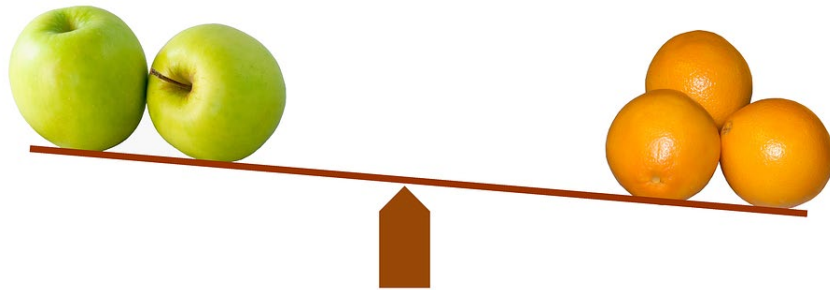
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# Funding Considerations

- State and Federal Formula Funds
  - Internal agency competition with traditional infrastructure needs.
  - Internal budget pressures because of inflationary impacts.



- Private Sector Partners

- Federal Discretionary Grants
  - Competitive by their very nature.
  - Difficulty for planning due to uncertainty.
  - Be cognizant of your state's overall discretionary grant pursuit strategy.



# BIL Funding Opportunities for CAV and Advanced Technology

## The Usual Suspects...

Grant	Advanced Transportation Technology and Innovation (ATTAIN)	\$300 M to deploy, install, and operate advanced transportation technologies to improve safety, mobility, efficiency, system performance, intermodal connectivity, and infrastructure return on investment. Formerly ATCMTD.
Grant	Strengthening Mobility & Revolutionizing Transportation (SMART)	\$500 M for demonstration projects focused on advanced smart community technologies and systems in order to improve transportation efficiency and safety.
Formula	Congestion Mitigation and Air Quality (CMAQ)	Funding is available to reduce congestion and improve air quality for areas that do not meet the National Ambient Air Quality Standards for ozone, carbon monoxide, or particulate matter (nonattainment areas) and for former nonattainment areas that are now in compliance (maintenance areas).
Formula	Traditional, Flexible Apportionment Programs	National Highway Performance Program, Surface Transportation Block Grant Program, Highway Safety Improvement Program, National Highway Freight Program

# BIL Funding Opportunities for CAV and Advanced Technology

## The Not So Usual Suspects...

Grant	Nationally Significant Multimodal Freight and Highway Projects (INFRA)	Provides grants for multimodal freight and highway projects of national or regional significance.
Grant	National Infrastructure Project Assistance Program (MEGA)	Provides grants to surface transportation infrastructure that are too large or complex for traditional funding programs that will have a significant national or regional impact.
Grant	Rural Surface Transportation Grant Program	Provides grants for projects to improve and expand the surface transportation infrastructure in rural areas to increase connectivity, improve the safety and reliability of the movement of people and freight, and generate regional economic growth and improve quality of life.
Grant	Rebuilding American Infrastructure with Sustainability and Equity (RAISE)	Provides grants for surface transportation infrastructure projects that will have a significant local or regional impact (aka Local and Regional Project Assistance).
Formula	Carbon Reduction Program	Projects to reduce transportation emissions; including advanced truck parking and deployment of infrastructure-based ITS and the installation of V2I communications equipment, including retrofitting existing DSRC to C-V2X. Requires inclusion in the State carbon reduction strategy.

# BIL Funding Opportunities for CAV and Advanced Technology

## And Don't Dismiss...

Grant & Formula	Promoting Resilient Operations for Transformative, Efficient, and Cost-saving Transportation (PROTECT)	\$7.3 B formula/\$1.3 B grants to build resilience for extreme weather and natural disasters; not intended for human-generated disruptive events, such as cybersecurity threats. Highways, public transit & ports; improvements that allow for the continued operation or rapid recovery of surface transportation systems, including evacuation routes. Consider Resilience Improvement Plan.
Grant	Congestion Relief Program	\$250 M to advance innovative, integrated, and multimodal solutions to congestion relief in the most congested metropolitan areas of the United States with an urbanized area population greater than 1,000,000.
Grant	Reduction of Truck Emissions at Port Facilities (RTEPF) Grant Program	\$400 M to (among other things) ...test, evaluate, and deploy projects that reduce port-related emissions from idling trucks, including through the advancement of port electrification and improvements in efficiency, focusing on port operations...
Grant	Tribal Transportation Program (TTP)	Tribal Governments Only - \$3 B to increase safety, mobility & access for tribal communities.
Grant	Safe Streets for All Program (SS4A)	Local Governments Only - \$5 B to support local initiatives to prevent transportation-related death and serious injury on roads and streets (commonly referred to as "Vision Zero" or "Toward Zero Deaths" initiatives).

# Discretionary Grant Considerations

- Benefit/Cost & Other Program-Specific Criteria
- Readiness to Deliver
  - ✓ State/Local Funding in Place
  - ✓ Environmental Clearance and Design Completion
- Solving a Problem Related to Key Priorities
  - ✓ CAV as a Component Solution in a Larger Project
  - ✓ Safety
  - ✓ Equity
  - ✓ Climate Resilience & Sustainability
- Strength of Coalition of Support
  - ✓ Breadth & Depth of Partners (multi-state, multi-agency)
  - ✓ Public and Private Sector Partners, Contributors & Beneficiaries
  - ✓ Actively Engaged in Promoting and Delivering the Project & Grant Application



# Resources

- AASHTO Committee on Transportation Systems Operations
- AASHTO Inter-Committee Working Group on CAV
- National Operations Center of Excellence



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