



BEARTRACKS

White Bear Lake Automated Vehicle Pilot Project

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WHAT?

- MnDOT Pilot Project testing connected and automated vehicle (CAV) technology in White Bear Lake, Minnesota started in summer 2022
- Funded through a competitive MnDOT CAV Challenge program
- One of three pilot projects in the state testing the technology in urban, suburban and rural settings



DESTINATION CAV

mi DEPARTMENT OF
TRANSPORTATION



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WHO?

- Mn DOT - leading the research pilot as part of its statewide Connected and Automated Vehicle (CAV) program
- AECOM - project manager
- Navya - shuttle provider/operator
- Newtrax - operations manager.



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PURPOSE



WINTER
WEATHER
CONDITIONS

- Advance the operation of automated vehicle technology in winter weather conditions.



PUBLIC
EDUCATION

- Engage and educate the public by providing a real -world automated vehicle experience.



WORKFORCE
DEVELOPMENT

- Advance educational opportunities and exposure to students to develop a connected and automated vehicle talent pipeline.

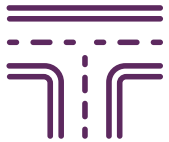


PURPOSE



MOBILITY

- Enhance the transit experience for the citizens of White Bear Lake and improve mobility in a suburban environment for those who can't drive.



INFRASTRUCTURE

- Identify infrastructure gaps and solutions to safely operate automated vehicles on public roadways.

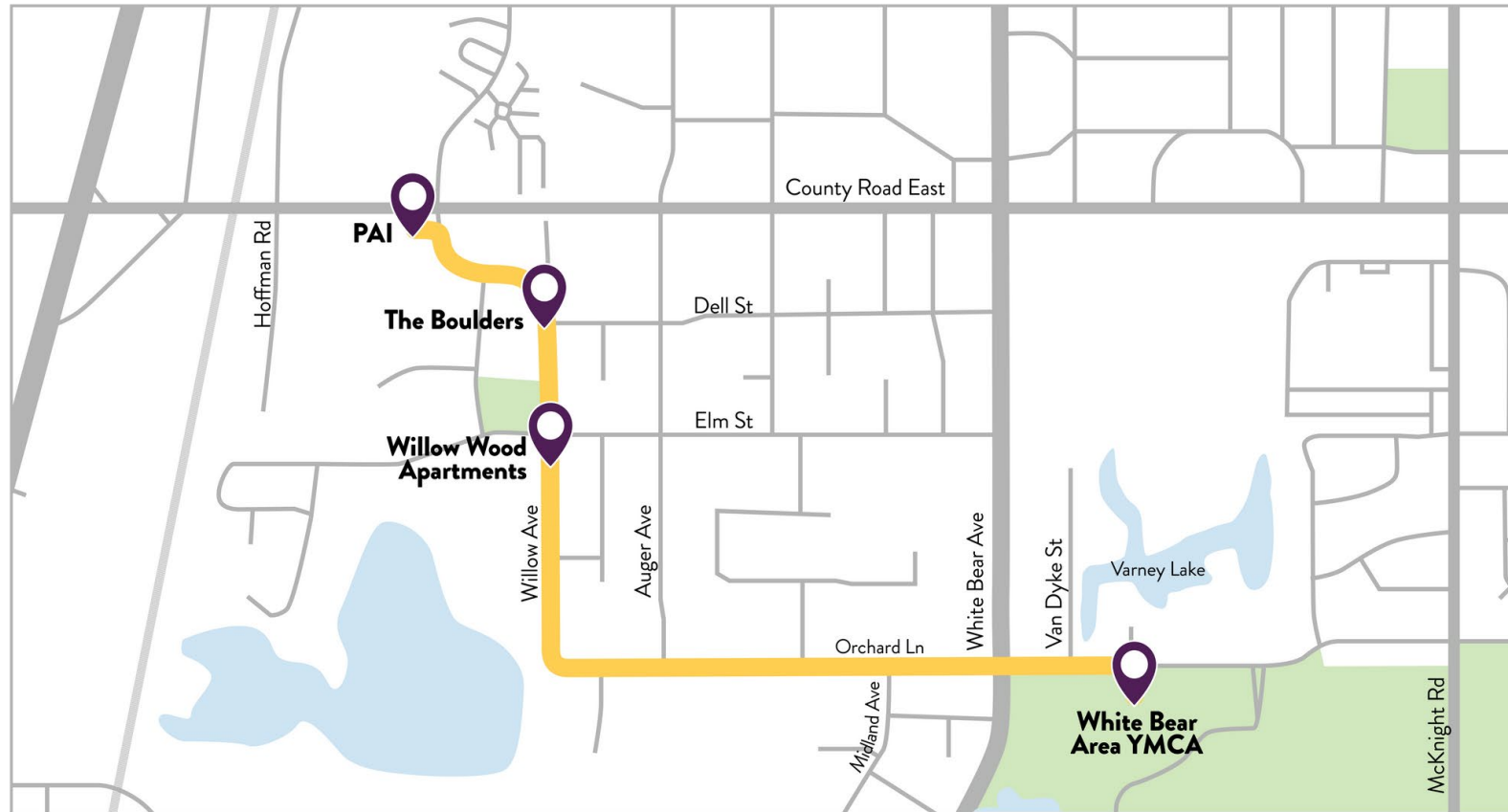


THE SHUTTLE

- Highly automated
- UP TO 11 passengers
- 100% electric
- Slow moving (10-12 mph)
- Equipped with Americans with Disabilities Act (ADA) compliant ramp
- Vehicle attendant onboard can control vehicle if necessary



ROUTE



STOPS:

1. PAI
2. THE BOULDERS
3. WILLOW WOOD APARTMENTS
4. WHITE BEAR AREA YMCA



HOW TO RIDE

Hours of Operation: Mondays through Fridays 9:30 am to 1:30 pm

Cost: Free

Who can ride: Open to the public; under 18 need an adult present

Where: You can board at any stop



Equity Goals and Challenges

- Increase transportation options for those with mobility challenges
- Lack of community engagement
- Looking for a problem to solve
- Reliability
- Risk



The shuttle is currently out of service for maintenance. The website and social media will be updated when operations resume.



Community Driven CAV

Project vision

We envision a project—a future—where the community is at the forefront of planning and implementation of new technology.

CAV technologies are often developed by select companies and universities, and then tested in communities. Instead, we want community to help identify what technology and uses of the technology Minnesota plans for, develops and tests.



Community Driven CAV

WE WILL:

- Host community listening sessions to identify their vision and needs around three topics—business and jobs, health and neighborhoods for all.
- Bring together community members and technical experts in workshops to brainstorm about the future of transportation through creative facilitation.

TO CREATE:

- A Community Driven CAV Demonstration Action Plan to summarize promising potential use cases for CAV which will guide future planning, technology development and demonstration.
- A Community Driven Planning Framework to summarize our approach and lessons learned as a resource for other communities to lead similar planning projects.





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Questions?

THOMAS JOHNSON-KAISER
Engagement Lead
Connected and Automated Vehicles
thomas.johnson-kaiser@state.mn.us

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