



Fact Sheet

Cavnue

Mission

Cavnue is building the future of roads. Cavnue's mission is to build the world's most advanced roads, that are safer, offer greater throughput, improve access to affordable and high-quality public transit and shared mobility, and enable more efficient movement of goods.

Overview

Cavnue is a company founded by Sidewalk Infrastructure Partners (SIP) to build the future of roads. The interstate highway system defined mobility in the second half of the 20th century. Now, transportation in America and around the world is changing again. Mobility in the 21st century will be defined by intelligent, connected, and autonomous vehicles. Cavnue is designing the physical, digital, coordination, and operational infrastructure to accelerate and realize the full potential of connected and autonomous vehicles to make roads safer, less congested, shared, and sustainable.

Cavnue will draw on an advisory committee of automotive and autonomous mobility companies, including Ford, GM, Argo AI, Arrival, BMW, Honda, Toyota, TuSimple, and Waymo, to develop OEM-neutral standards.

Dedicated Infrastructure for Connected and Autonomous Vehicles (CAVs)

While billions have been invested into developing on-vehicle technologies - including advanced driver assistance systems ("ADAS") and fully autonomous driving solutions - a small fraction has been spent on developing infrastructure to support and enhance advanced roads. Cavnue is developing and integrating technologies that will power the world's most technologically connected roads. Cavnue's approach is centered around creating a digital model of a roadway that analyzes and optimizes road conditions in real-time, shares information, and provides proactive guidance to vehicles and drivers. This supports enhanced safety, efficiency, and road operating environments.



Key Use Cases

- **The future of public transit:** In dedicated CAV lanes, today's autonomous vehicle technology can enable transit solutions that are smarter, safer, and more efficient - and fairly and equitably provide critical access in communities with long-standing transportation and transit gaps.
- **The future of freight:** Connected and autonomous trucks can benefit from more constrained environments to achieve greater speed, safety, and lower congestion. This is applicable for long-haul trucking as well as addressing challenges at key choke points such as ports, congested highways, tunnels, and bridges, optimizing the movement of freight.
- **The future of personal transportation:** Autonomous vehicles and vehicles with ADAS operating in these lanes can use the information on their surroundings and communicate with each other to move faster, more safely, and at closer distances, allowing more capacity in the same space.
- **Supporting conventional vehicles:** In addition to dedicated laneways, Cavnue will equip roads that can accommodate mixed traffic (both CAVs and conventional vehicles) with technology and infrastructure that improves road safety and congestion. This includes improved traffic management, and predictive maintenance, safety alerting, and advanced tolling solutions.

Michigan Project

Cavnue is developing a first-of-its-kind connected corridor in Michigan, the birthplace of the automobile and the home of 75% of U.S. automotive R&D investment. In the first phase of the project, Cavnue is undertaking a feasibility analysis to inform the development of a first-of-its-kind connected corridor in southeast Michigan connecting downtown Detroit and Ann Arbor. Cavnue was selected by the Michigan Department of Transportation to bring together technology and infrastructure to create a connected corridor improving safety, congestion, and accessibility and bringing other benefits for the state. Over time, the corridor will yield greater safety and accessibility while allowing existing roadways to handle more passengers.