Connected and Autonomous Vehicles

- Technical consulting
- Strategic consulting
- Software engineering
Connected and autonomous vehicles
Ricardo provides integrated strategy and technology driven connected and autonomous vehicle solutions from within a multi-discipline global and dynamic organization.

Environmental impact, regulations, standardization
Strategic consulting
Public transport system planning
Technical consulting • Strategic consulting • Software engineering

Autonomous vehicle engineering
Agent Drive modeling
Vehicle connectivity (V2X)
Strategic consulting
Ricardo Agent Drive
Connected data services
System integration
Level-3, -4 and -5 autonomous transit
Strategic consulting
Understanding technical developments, cost and affordability.

Vehicle connectivity (V2X)
Development and implementation of V2X systems, including independent and partnered R&D, and network security.

Ricardo Agent Drive
Leveraging agent-based modeling (ABM) methodology, real-world analysis of complex system behaviors enables control and the tools to make future urban multi-agent system development and analysis.

Connected data services
Solutions to enable internet of things (IoT)

System integration
Developed system and integration for autonomous vehicle control (brake, steer, accelerate by wire).

Level-3, -4 and -5 autonomous transit
Strategy, design and development providing lateral, longitudinal and platooning algorithms.

Platnning
Connected to DC or LTE communication with software design and development.

Autonomous vehicle engineering
Agent Drive modeling
Development and evaluation of system performance, evolving to include connected vehicle infrastructure.

Vehicle connectivity (V2X)
Development and implementation of V2X systems, including independent and partnered R&D, and network security.

Ricardo Agent Drive
Leveraging agent-based modeling (ABM) methodology, real-world analysis of complex system behaviors enables control and the tools to make future urban multi-agent system development and analysis.

Connected data services
Solutions to enable internet of things (IoT)

Public transport system planning
Agent Drive modeling allows strategic planning for connected urban transport networks.

Strategic consulting
Understanding technical developments, cost and affordability.

Environmental impact, regulations, standardization
Strategic consulting
Advancing technology to enable connected and autonomous vehicles

Connected and autonomous vehicles will bring advanced communications, self-driving and significantly improved mobility for people and transported goods.

Vehicle intelligence and networking are part of an emerging solution to our global transportation challenges, and are advancing quickly to deliver highly automated and even partially autonomous vehicles, which already operate on some of our roads today.

Delivering simplicity and managing complexity

As the transportation marketplace percolates with new ideas and ways of delivering intelligent multi-modal mobility, it remains to be seen who will own future vehicles, who will develop them and which types of services and infrastructures will become commonplace.

Behind the scenes is an innovative arena – a matrix of evolving technologies and services that include sensors, software, chips and boards, integration and vehicle builds, data management, connectivity and security. The vehicle value chain is expected to be driven by software feature sets, low system costs and high-performance hardware.

Ricardo shares a vision to continue to advance technology, replicate successful models and establish standards, practices and legislation that drive successful autonomous vehicle growth. As a leader in providing strategy and engineering services in the connected and autonomous vehicle market, we are currently focused on leading algorithm development, sensor fusion and hardware integration technologies through our client program successes.
Autonomous and connected vehicles will provide significant social, industrial, economic and environmental benefits in the future. Large investments in research and development are being made globally to ensure we bring these solutions to market as soon as possible.

Contact us
For more information on Ricardo's connected and autonomous vehicle (CAV) solutions, email cav@ricardo.com