Standards help support integration of connected and automated vehicles

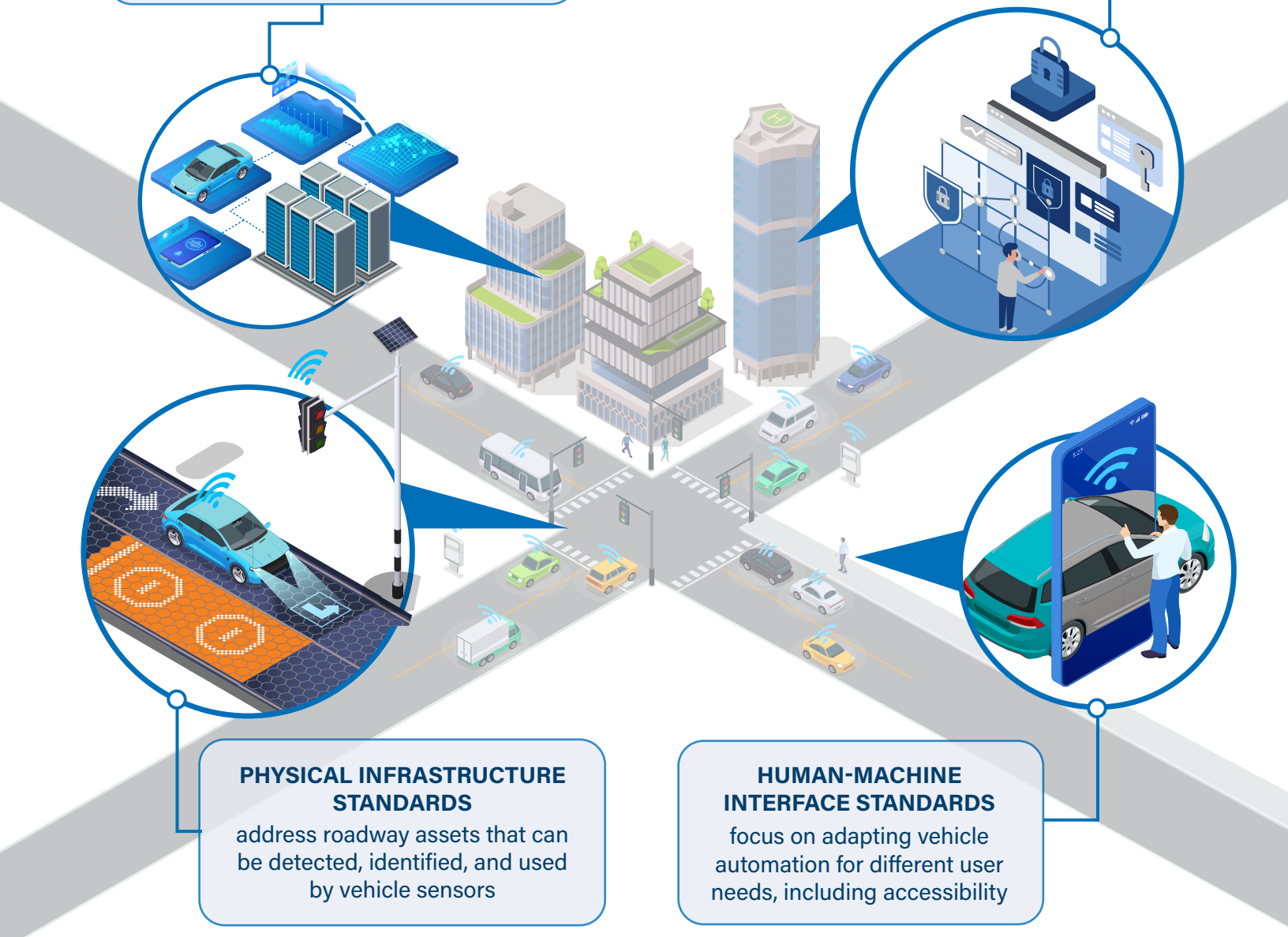
Integrating connected and automated vehicles (CAV) into the transportation system requires the physical and digital infrastructure capable of supporting this advanced technology. CSA Group codes and standards can play a crucial role in helping improve safety, security, and interoperability of infrastructure systems within North America and getting them ready for the deployment of CAVs.

DIGITAL INFRASTRUCTURE STANDARDS

address software that collects, stores, processes, and exchanges data to support intelligent transportation services

CYBERSECURITY, PRIVACY AND DATA MANAGEMENT STANDARDS

help define the actions related to the security, integrity, and privacy of data, networks, and algorithm training



PHYSICAL INFRASTRUCTURE STANDARDS

address roadway assets that can be detected, identified, and used by vehicle sensors

HUMAN-MACHINE INTERFACE STANDARDS

focus on adapting vehicle automation for different user needs, including accessibility

Who will benefit from CSA Group standards-based solutions for CAV infrastructure?

- Manufacturers
- Infrastructure owners & operators
- Regulators
- Transportation, municipal & urban planners
- Road users
- Inspection agencies

Contact Information

To ask questions, receive updates on standards or apply to become a member, please create a free account and follow CSA Connected and Automated Vehicles Community or email us at fuels@csagroup.org

CSA Group standards-based solutions support safe, secure, and seamless integration of CAVs into the transportation system across North America.

Advancing safety

Application of consistent requirements and guidelines for CAV technology supports public safety, data security, and reduces human error

Full ecosystem considerations

System-based approach to standards development helps provide solutions that support a complex CAV technology landscape

Seamless cross-border operation

Close collaboration with stakeholders across North America supports harmonization of standards and their interoperability

Improving accessibility

Developed by experts representing various stakeholder groups, standards help create mobility opportunities for everyone

Increased public trust and confidence

Standards provide regulators with tools that promote technologies that are safe, secure, and interoperable

CSA Group research and standards-based solutions for CAV infrastructure:

- EXP150.1:23, *Guidelines for Connected and Automated Vehicles: Digital Infrastructure*
- EXP150.2:23, *Guidelines for Connected and Automated Vehicles: Physical Infrastructure*
- EXP150.3:23, *Guidelines for Connected and Automated Vehicles: Cybersecurity, Privacy, and Data Management*
- Physical and Digital Infrastructure for Connected and Automated Vehicles (CAV) – research report
- Connected and Automated Vehicle Technologies – Insights for Codes and Standards in Canada – research report
- Connected and Automated Vehicles Codes and Standards Roadmap

For more information on CSA Group standards and research for CAV infrastructure, visit our website www.csagroup.org/CAVInfrastructureStandards

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