

Connect2050 Appendix 5. Resources on Technologies: Connected and Autonomous Vehicles, Electrification, Telepresence

This appendix contains links to resources on emerging technological changes that are influencing patterns and modes of travel, and the environmental impacts of travel: connected and autonomous vehicles, electrification and telepresence. As MPOs and NCDOT implement the recent update of the Triangle Intelligent Transportation Systems (ITS) study, understanding the potential roles, market penetration rates and impacts of connected and autonomous vehicles will be important considerations.

Because knowledge about connected and autonomous vehicles, electrification and telepresence is evolving rapidly, this appendix highlights web sites and points of contact that can be expected to update information as it becomes available.

Connected and Autonomous Vehicles

Resources from the [American Planning Association](#)

Resources from the [Victoria Transport Policy Institute](#)

Resources from [The National Highway Transportation Safety Administration](#)

Resources from the [Transportation Research Board](#)

Resources from the [US Department of Transportation](#)

Links to Other Sources:

<https://rpa.org/work/reports/new-mobility>

<https://www.caranddriver.com/features/autonomous-addressing-the-totality-of-the-driverless-car-feature>

Vehicle Electrification

Resources from the [American Council for an Energy Efficient Economy](#)

Resources from the [NC Clean Energy Technology Center](#)

The [Triangle Clean Cities Coalition](#) maintains information on alternative fuel resources, including information on EV infrastructure programs.

Telepresence

Telepresence refers to connections based on virtual and remote technology that can replace in-person travel. Originally focused on tele-work, the COVID pandemic resulted in extensive adoption for other purposes, including remote meetings, remote schooling and tele-medicine.

[Triangle Transportation Choices](#), the Triangle region's transportation demand management program developed a [toolkit for telework programs](#) and can be contacted for telepresence resources.