

CONNECT 2050

The Research Triangle Region's
Metropolitan Transportation Plan



Table of Contents

1. Executive Summary.....	1
2. What is the Plan?	6
2.1 Why Do We Need A Plan?	6
2.2 What Is In The Plan.....	7
2.3 How Will The Plan Be Used?.....	10
3. About Our Home.....	11
3.1 Our Region	11
3.2 Our People	12
3.3 Our Economy	13
3.4 Our Environment.....	14
3.5 Our Future	16
3.6 Our Challenge.....	16
4. Our Vision And How We Will Achieve It.....	19
4.1 The Values Underlying Our Vision: Equitable Engagement and Investment.....	19
4.2 Our Vision	19
4.3 Goals and Objectives	19
4.4 Performance Measures of Effectiveness and Target Values	21
5. How We Developed Our Plan	24
5.1 Who is Responsible for the Plan?.....	24
5.2 Stakeholder & Public Involvement Process	25
5.3 Supportive Tools: CommunityViz and the Triangle Region Transportation Model.....	31
5.4 Related Plans and Studies.....	32
6. Analyzing Our Choices.....	37
6.1 Land Use Plans and Policies	37
6.2 Socio-economic Forecasts	38
6.3 Trends, Deficiencies, and Needs	41
6.4 Alternatives Analysis	43
6.5 Performance Evaluation Measures	47
7. Our Metropolitan Transportation Plan: What We Intend To Do.....	48
7.1 Land Use & Development Strategies.....	48
7.2 Shared Regional Investments	49
7.3 Complete Corridors	50
7.4 Roadways.....	51
7.5 Transit Facilities & Services.....	54
7.6 Active Transportation and Micro-Mobility Investments	58
7.7 Strategies to Manage Transportation Demand	62
7.8 Transportation Technologies	64
7.9 Investments for Safe, Effective Transportation System Management (TSM)	65
7.10 Specialized Investments: Railroads and Airports	66
7.11 Freight Movement and Logistics	69
7.12 Policy Priorities, Special Plans, Projects, Studies & Performance Tracking	70
8. Our Financial Plan	74
8.1 Revenues	74
8.2 Costs	80
8.3 Balancing Costs and Revenues.....	81
9. Critical Factors and Emphasis Areas in the Planning Process.....	82
9.1 Sustainability and Resiliency: Critical Environmental Resources	85
9.2 Transportation, Air Quality and Climate Change	87
9.3 Environmental Justice	88
9.4 Safety and Security.....	96
9.5 The Fixing America's Surface Transportation (FAST) Act and <i>Connect 2050</i>	99
10. Post-2050 Vision: Comprehensive Transportation Plan Projects	102
Appendices.....	103

Appendices

- Appendix 1: Community Engagement
- Appendix 2: Complete Corridor & Roadway Projects List
- Appendix 3: Transit Projects List
- Appendix 4: Active Transportation Projects
- Appendix 5: Resources on Technologies: Connected & Autonomous Vehicles, Electrification, Telepresence
- Appendix 6: Joint MPO Transportation Policy Priorities
- Appendix 7: Air Quality (MOVES output)
- Appendix 8: Public Comments on the MTP Draft Plan and Report
- Appendix 9: Acronyms
- Appendix 10: Detailed Transportation and Growth Maps and Measures of Effectiveness
- Appendix 11: Financial Plan and Cost & Revenue Details
- Appendix 12: Environmental Justice Maps and Critical Environmental Resource Maps
- Appendix 13: Federal Performance Measure Values

Online Interactive Project Maps: CAMPO ([all modes](#)) DCHC MPO ([roadway](#)) ([transit](#))

2050 Metropolitan Transportation Plan adoption dates:

Capital Area MPO: February 16, 2022 Durham-Chapel Hill-Carrboro MPO: February 9, 2022

Date of this document version: May 6, 2022

A Note to Readers:

The heart of any transportation plan is the investments that will be made to serve the mobility needs of our rapidly growing region's citizens, businesses and visitors. These investments take the form of road, transit, railroad, airport, cycling and walking facilities and services, together with related technologies and strategies. Maps are created to help visualize the nature of both the facilities in which we plan to invest and the existing and future population and jobs that the facilities are designed to serve. But the maps in this document are for illustrative purposes only and are subject to change and interpretation. The details of the investments are in the project lists that are included with this report.

Comments may be submitted to either of the MPOs through their websites:

NC Capital Area MPO: www.campo-nc.us/ attention: Chris Lukasina
Durham-Chapel Hill-Carrboro MPO: www.dchcmopo.org/ attention: Andy Henry

Because this document addresses the official plans of both MPOs, the document is color-coded. Text and tables with a white background apply to both MPOs.

Text and tables highlighted in this green color apply only to the Durham-Chapel Hill-Carrboro MPO.

Text and tables highlighted in this yellow color apply only to the Capital Area MPO