

CONNECT 2050

The Research Triangle Region's
Metropolitan Transportation Plan



Table of Contents

1. Executive Summary	1
2. What is the Plan?	4
2.1 Why Do We Need A Plan?	4
2.2 What Is In The Plan?	5
2.3 How Will The Plan Be Used?	8
3. About Our Home	9
3.1 Our Region	9
3.2 Our People	10
3.3 Our Economy	11
3.4 Our Environment	12
3.5 Our Future	14
3.6 Our Challenge	14
4. Our Vision – What It is Based on And How We Will Achieve It	17
4.1 The Values Underlying Our Vision: Equitable Investment and Multi-Pronged Engagement	17
4.2 Vision.	17
4.3 Goals and Objectives.	17
4.4 Performance Targets and Measures of Effectiveness.	18
5. How We Developed Our Plan.....	21
5.1 Who is Responsible for the Plan?	21
5.2 Stakeholder & Public Engagement	22
5.3 Supportive Tools: CommunityViz and the Triangle Region Transportation Model.....	27
5.4 Related Plans and Studies.....	28
6. Analyzing Our Choices.....	33
6.1 Land Use Plans and Policies	33
6.2 Socio-economic Forecasts	34
6.3 Trends, Uncertainties, Deficiencies, and Needs	37
6.4 Alternatives Analysis.....	42
6.5 Performance Evaluation Measures	45
7. Our Metropolitan Transportation Plan: What We Intend to Do	50
7.1 Land Use & Development Strategies.....	50
7.2 Shared Regional Investments	51
7.3 Major Multi-Modal Corridor Investments.....	52
7.4 Roadways.....	54
7.5 Transit Facilities & Services	54
7.6 Active Transportation Investments	55
7.7 Strategies to Manage Transportation Demand	60
7.8 Transportation Technologies	62
7.9 Investments for Safer, More Effective Transportation System Management (TSM).....	63
7.10 Specialized Investments: Railroads and Airports	64
7.11 Freight Movement	65
7.12 Policy Priorities, Special Plans, Projects, Studies and Performance Tracking	66
8. Our Financial Plan	69
8.1 Revenues	69
8.2 Costs	70
8.3 Balancing Costs and Revenues	76
9. Critical Factors in the Planning Process	80
9.1 Sustainability & Resiliency.....	84
9.2 Transportation - Air Quality Conformity.....	85
9.3 Environmental Justice	100
9.4 Safety & Security	103
10. Post-2050 Comprehensive Transportation Plan Projects	109

Appendices

- Appendix 1: Community Engagement
- Appendix 2: Multi-Modal Corridor & Road Projects List
- Appendix 3: Transit Project List
- Appendix 4: Active Transportation Projects
- Appendix 5: Resources on Technologies: Connected & Autonomous Vehicles, Electrification, Telepresence
- Appendix 6: Multimodal Corridors and Complete Streets
- Appendix 7: Air Quality (MOVES output)
- Appendix 8: Public Comments and Plan Revisions
- Appendix 9: Acronyms
- Appendix 10: Detailed Transportation and Growth Maps
- Appendix 11: Year-of-Expenditure Financial Plan
- Appendix 12: Environmental Justice Maps and Critical Environmental Resource Maps
- Appendix 13: FAST Act Target Values

Online Interactive Project Maps:

CAMPO: [\[to be added\]](#)

DCHC MPO: [\[to be added\]](#)

2050 Metropolitan Transportation Plan most recent adoption or amendment dates:

Capital Area MPO: xxxx, 2021

Durham-Chapel Hill-Carrboro MPO: yyyy, 2021

Date of this document version: December ZZ, 2021

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.dchcmpo.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