

Table of Contents

Table of Contents	i
List of Acronyms	v
1. INTRODUCTION	1-1
Goal & Objectives	1-2
Accomplishments Since the 2017 VROOM.....	1-3
What is the Regional Transportation Plan?.....	1-4
Related Plans	1-6
California Environmental Quality Act.....	1-8
References	1-8
2. RENEWING OUR COMMUNITIES	2-1
Communities- From Local to Global.....	2-1
Renew What?	2-3
County Profile & Community Feedback.....	2-4
Transportation Equity	2-9
Renew How? [Plan Goal & Objectives]	2-11
Action Plan: Proposed Projects	2-21
References	2-22
Table Renew-1. Race and Ethnicity in Humboldt County (2015-2019)	2-4
Table Renew-2. Factors that Affect Mobility, Humboldt County (2015-2019).....	2-5
Table Renew-3. Safe and Sustainable Transportation Targets.....	2-13
Table Renew-4. Regional Equity Planning Projects	2-20
Figure Renew-1 Collisions in Humboldt County (All) 12/14/2017 – 12/31/2020	2-2
Figure Renew-2. What you see at 15mph versus 30mph	2-3
Figure Renew-3 Preliminary Survey Results for Countywide Transportation Funding Priorities.....	2-8
Figure Renew-4 Example of planning for a "20-Minute Neighborhood"	2-12
3. GLOBAL CLIMATE CRISIS	3-1
Trends and Projections.....	3-1
Needs Assessment.....	3-5
RTP Goal, Objectives, & Policies	3-10
Action Plan: Proposed Projects	3-12
Research and Planning	3-12
References	3-18
Table Climate-1. North Coast Region: Projected Average Annual Max Temperatures to 2099.....	3-5
Table Climate-2. Surface transportation infrastructure (miles) vulnerable sea level rise in Humboldt Bay	3-7
Table Climate-3. Summary of Humboldt Co.-US 101 Prototype-Location Adaptation Options	3-8
Table Climate-4. Regional Climate-Crisis Planning Projects.....	3-12
Table Climate-5. Miles of roads and railways vulnerable to erosion and flood.....	3-16
Table Climate-6. Miles of roads and railways vulnerable to a 100-year flood	3-16
Table Climate-7. Replacement value of buildings/contents at risk of a 100-year flood event	3-17
Figure Climate-1. 2015 Humboldt County Greenhouse Gas Emissions (Draft County CAP)	3-3
Figure Climate-2 Electric and Plug-in Hybrid Electric Vehicles on the Road in Humboldt	3-9
[TO BE INSERTED] Figure Climate-3. Highway 101 Vulnerability to Sea-Level Rise Along Humboldt Bay ..	3-8
[TO BE INSERTED] Figures Climate-4. through Figure Climate-7	

4. TRIBAL TRANSPORTATION ELEMENT	4-1
Tribal Transportation Planning.....	4-1
Goal, Objectives, & Policies.....	4-3
Tribal Government Summaries	4-3
References.....	4-12
5. EMERGENCY TRANSPORTATION ELEMENT	5-1
Existing Emergency Management	5-1
Emergency and Resilience Planning	5-2
Goals, Objectives, & Policies	5-6
Action Plan: Proposed Projects.....	5-7
Funding	5-8
Performance Measures	5-9
References	5-10
Table <i>Emergency-1.</i> Regional Emergency Transportation Proposed Projects	5-7
Table <i>Emergency-2.</i> Performance Measures for Emergency Transportation Operations	5-9
6. LAND USE-TRANSPORTATION ELEMENT	6-1
Land Use and Transportation	6-1
Goal, Objectives, & Policies	6-4
Needs Assessment.....	6-7
Action Plan: Proposed Projects.....	6-9
References.....	6-10
Table <i>Land Use-1.</i> Additional Housing Units Needed in Humboldt County 12/31/18 to 8/31/27	6-8
Table <i>Land Use-2.</i> Final 2019 RHNA Allocation, by Income Category	6-8
Table <i>Land Use-3.</i> Final 2019 Overall RHNA	6-8
Table <i>Land Use-4.</i> Regional Land Use Planning Projects	6-9
7. COMPLETE STREETS & CONNECTED COMMUNITIES	7-1
Existing Roadway System	7-2
Goal, Objectives, & Policies	7-8
Needs Assessment.....	7-10
Action Plan: Proposed Projects.....	7-13
Performance Measures	7-27
Table <i>Streets-1.</i> Bikeway Classifications and Local Examples	7-6
Table <i>Streets-2.</i> Regionally Significant Roadways	7-7
Table <i>Streets-3.</i> Roadway Maintenance & Rehabilitation Backlog (2021).....	7-11
Table <i>Streets-4.</i> Complete Streets Projects for Cities, County, Tribes—Short-Term & Long-Term ...	7-14
Table <i>Streets-5.</i> Complete Streets Projects for Caltrans District 1	7-23
Table <i>Streets-6.</i> Performance Measures for the Regional Complete Streets System.....	7-27
Figure <i>Streets-1.</i> CA State Highway & Local Roads 2018	7-2
Figure <i>Streets-2.</i> A Conceptual Road Design for a “Main Street”	7-4
Figure <i>Streets-3.</i> Converting a right-of-way to be more effectively multi-modal.....	7-6
8. COMMUTER TRAILS ELEMENT	8-1
Existing Regional Trails.....	8-2
Goals, Objectives, & Policies	8-4
Needs Assessment.....	8-5
Action Plan: Proposed Projects.....	8-6
References.....	8-8
Table <i>Trails-1.</i> Regional Commuter Trail Projects.....	8-7

9. PUBLIC TRANSPORTATION ELEMENT	9-1
Existing Interregional Transit System	9-1
Existing Regional Transit System.....	9-1
Goals, Objectives, & Policies	9-5
Needs Assessment.....	9-8
Action Plan Proposed Projects.....	9-10
Performance Measures	9-12
References.....	9-15
Table <i>Transit-1.</i> Humboldt Transit Authority (HTA) Shared-Cost Assessments	9-2
Table <i>Transit-2.</i> Regional Projects for Public Transportation	9-10
Table <i>Transit-3.</i> Regional Transit Service Performance Measures	9-15
10. AVIATION SYSTEM ELEMENT	10-1
Airport Access & Mobility	10-2
Aviation Planning	10-3
Regional Aviation System	10-5
Goal, Objectives, & Policies	10-13
Needs Assessment.....	10-14
Action Plan: Proposed Projects.....	10-20
Performance Measures	10-24
References.....	10-26
Table <i>Aviation-1.</i> Public-use Airports in Humboldt County.....	10-7
Table <i>Aviation-2.</i> California Redwood Coast Airport Enplanements 2009-2019.....	10-9
Table <i>Aviation-3.</i> Forecast Airport Activity for Humboldt County, 2017-2039	10-12
Table <i>Aviation-4.</i> Regional Airport Capital Improvement Plan (CIP) and Planning Projects.....	10-21
Table <i>Aviation-5.</i> Performance Measures for Regional Aviation System.....	10-24
Figure <i>Aviation-1</i> Sea-Level Rise Affecting Public Airports, CA	10-17
11. GOODS MOVEMENT ELEMENT	11-1
Existing Goods Movement System.....	11-1
Goal, Objectives, & Policies	11-9
Needs Assessment.....	11-11
Action Plan: Proposed Projects.....	11-17
System Performance Measures.....	11-19
References.....	11-21
Table <i>Goods-1.</i> Active Shipping Terminals on Humboldt Bay.....	11-5
Table <i>Goods-2.</i> Foreign Trade Zones in Humboldt County	11-7
Table <i>Goods-3.</i> Regional Goods Movement Projects	11-18
Table <i>Goods-4.</i> Performance Measures for Regional Goods Movement System.....	11-19
12. FINANCIAL ELEMENT	12-1
Federal Transportation Funding	12-1
State of California Transportation Funding.....	12-3
Inventory of Transportation Funding Programs.....	12-7
Additional Potential Funding Sources.....	12-8
Finance Plan.....	12-9
References.....	12-16
Table <i>Finance-1.</i> SB 1 Funding Estimates for Humboldt County	12-5
Table <i>Finance-2.</i> Sales Tax Initiatives in Humboldt County	12-6
Table <i>Finance-3.</i> Federal and State Transportation Funding Programs.....	12-6

Table Finance-4. Projected Revenue	12-11
Table Finance-5. Financial Projections for HCAOG Regional Complete Streets Projects.....	12-12
Table Finance-6. Transit System Financial Projections.....	12-15
Table Finance 7. Projected 20-year Transit Program Revenues	12-15
Figure Financial-1. Annual Revenues, Outlays, and Balances of the Highway Trust Fund in CBO's March 2020 Baseline Projections.....	12-3

Maps Tab

Figure 2.1 Vicinity Map.....	1
Figure 2.2 General Land Use: Humboldt County	2
Figure 2.3a Population Centers and Major Destinations: North	3
Figure 2.3b Population Centers and Major Destinations: South	4
Figure 2.3c Population Centers and Major Destinations: Humboldt Bay Area	5
Figure 4.1 Tribal Areas	6
Figure 7.1 Class I Regional Commuter Multi-Use Trails	7
Figure 7.2 Class III Regional Bicycle Routes	8
Figure 9.1a Transit Routes: Countywide.....	9
Figure 9.1b Transit Routes: Arcata.....	10
Figure 9.1c Transit Routes: Eureka	11
Figure 9.1d Transit Routes: Fortuna	12
Figure 11.1 Goods Movement	12

Appendices

Appendix A. Public Outreach & Engagement Program	
Appendix B. Airport Ground Access Improvement Plan	
Appendix C. Addendum to the Final Environmental Impact Report prepared for the Humboldt Regional Transportation Plan 2013-14 Update	
Appendix D. Public & Agency Comment Letters	

HCAOG Plans Incorporated by Reference

- ❖ Humboldt County Association of Governments Public Participation Plan
- ❖ Humboldt Regional Bike Plan
- ❖ Humboldt Regional Trails Plan
- ❖ Humboldt Pedestrian Master Plan

List of Acronyms

5310	Federal Transit Administration grant program (mass transportation needs for elderly persons and persons with disabilities)
5311, 5311 (f)	Federal Transit Administration grant program (for public transit in non-urbanized areas, i.e., population under 50,000)
AAC	Aviation Advisory Committee
ACV	Airport Code for California Redwood Coast–Humboldt County Airport
A&MRTS	Arcata and Mad River Transit System
AB 32	Assembly Bill 32: California Global Warming Solutions Act of 2006
AIP	Airport Improvement Program
ALUC	Airport Land Use Commission
ALUCP	Airport Land Use Compatibility Plan
ARRA	American Recovery and Reinvestment Act
ATP	Active Transportation Program (A proposed state program)
BIA	Bureau of Indian Affairs
BLRTS	Blue Lake Rancheria Transit System
CALCOG	California Association of Councils of Governments
CalSTA	California State Transportation Agency
Caltrans	California Department of Transportation
CARB	California Air Resource Board
CBO	Congressional Budget Office
CCCC	California Climate Change Center
CCT	California Coastal trail
CFR	Code of Federal Regulations
CIP	Capital Improvement Plan
CO ₂	Carbon Dioxide (a greenhouse gas)
CPUC	California Public Utilities Commission
CRRSA Act	Coronavirus Response and Relief Supplemental Appropriations
CTC	California Transportation Commission
CTP	California Transportation Plan
DAR/DAL	Dial-a-ride, Dial-a-lift
DOT	Department of Transportation
EEM	Environmental Enhancement & Mitigation program
ETS	Eureka Transit Service
FTZ	Foreign Trade Zone
FAA	Federal Aviation Administration
FFY	Federal Fiscal Year
FHWA	Federal Highway Administration (under the U.S. Department of Transportation)
FSTIP	Federal Statewide Transportation Improvement Program
FTIP	Federal Transportation Improvement Program
FTA	Federal Transit Administration (under the U.S. Department of Transportation)
FTS	Fortuna Transit System
FY	Fiscal Year
GASNA	General Aviation System Needs Assessment
GHG	Greenhouse Gas
NCCTC	North Coast Tribal Transportation Commission
HBMWD	Humboldt Bay Municipal Water District
HCAOG	Humboldt County Association of Governments
HSU	Humboldt State University
HTA	Humboldt Transit Authority
HTF	Highway Trust Fund

HVTC	Hoopa Valley Tribal Council
ISTEA	Intermodal Surface Transportation Efficiency Act
ITIP	Interregional Transportation Improvement Program
ITS	Intelligent Transportation System
K/T NeT	Klamath Trinity Non-emergency Transportation
KPRA	Kingpin-to-rear-axle
LED	Light-Emitting Diode
LOS	Level of Service
LTF	Local Transportation Fund (Enacted by the Transportation Development Act (TDA).
MAP-21	Moving Ahead for Progress in the 21st Century (Went into effect FY 2013-14.)
MKRCTP	Middle Klamath River Community Transportation Plan
MOU	Memorandum of Understanding
NCRA	North Coast Railroad Authority
NPIAS	National Plan of Integrated Airport Systems
NOx	Nitrous Oxide (an air pollutant)
OA	Operational Area
OES	State Office of Emergency Services
OWP	Overall Work Program
PAC	Policy Advisory Committee (HCAOG committee)
PCI	Pavement Condition Index
PDT	Project Delivery Team
PM	Particulate Matter (an air pollutant)
PMS	Pavement Management System
PPM	Project, Planning and Monitoring
PSA	Public Service Announcement
PSR	Project Study Report
PTMISEA	Public Transportation Modernization, Improvement, and Service Enhancement Account (also called Prop 1B)
RCEA	Redwood Coast Energy Authority
RCT	Redwood Coast Transit
RPA	Regional Planning Agency
RSTP	Regional Surface Transportation Program
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
RTPA	Regional Transportation Planning Agency
RTS	Redwood Transit System
SAFE	Service Authority for Freeway Emergencies
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (federal transportation act 2005--2012)
SB	Senate Bill
SB 1	Senate Bill 1: Road Repair and Accountability Act of 2017
SB 375	Senate Bill 375: Sustainable Communities and Climate Protection Act of 2008
SCC	Service Coordination Committee (HCAOG committee)
SHA	State Highway Account
SHI	Southern Humboldt Intercity
SLR	Sea Level Rise
SPR	State Planning and Research
SR	State Route
SR2S	Safe Routes to School (State of California's program)
SRTS	The former federal Safe Routes to School program
SST Targets	Safe & Sustainable Transportation Targets
SSTAC	Social Service Transportation Advisory Council (HCAOG committee)
STAAs	Surface Transportation Assistance Act
STAF, STA Fund	State Transit Assistance Fund

STIP	State Transportation Improvement Program
TAC	Technical Advisory Committee (HCAOG committee)
TAP	Transportation Alternatives Program
TCTC	Trinity County Transportation Commission
TDA	Transportation Development Act
TDP	Transit Development Plan
TE	Transportation Enhancement (Federal, enacted by SAFETEA-LU)
TEA	Transportation Equity Act
TIGER	Transportation Investment Generating Economic Recovery
TTIP	Tribal Transportation Improvement Program
TSM	Transportation Systems Management
TTPA	Tribal Transportation Programmatic Agreement
UTN	Unmet Transit Needs
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound (an air pollutant)
WSP	Wayfinding System Project
YTTS	Yurok Tribal Transit Service