

Contents

1	Introduction.....	1
2	Early Highway Planning	7
	Federal Highway Act of 1921	7
	Early Parkways	8
	Radburn, New Jersey	10
	Federal-Aid Highway Act of 1934.....	12
	Electric Railway Presidents' Conference Committee	12
	Manual on Uniform Traffic Control Devices.....	13
	Greenbelt Communities	14
	AASHO Policy on Geometric Design of Rural Highways.....	15
	Toll Road Study	15
	Futurama	16
	Highway Capacity Manual	17
	Interregional Highway Report	18
3	Roots of Urban Transportation Planning	21
	Federal-Aid Highway Act of 1944.....	21
	Manual of Procedures for Home Interview Traffic Studies	22
	Levittown, New York	24
	Early Transit Planning.....	26
	Dawn of Analytical Methods	26
	AASHO Manual on User Benefit Analysis.....	27
	Breakthroughs in Analytical Techniques	28
	National Committee on Urban Transportation.....	29
	Housing Act of 1954: "701" Comprehensive Planning Program	30
	Pioneering Urban Transportation Studies	31
4	Launching the Interstate Highway Program.....	33
	Federal-Aid Highway Act of 1956.....	34
	Hartford Conference	36
	Sagamore Conference on Highways and Urban Development.....	37

Freeway Revolts.....	37
Shopping Malls	38
Housing Act of 1961	40
Future Highways and Urban Growth.....	40
An Analysis of Urban Travel Demands	42
The “499 Club”	43
5 Urban Transportation Planning Comes of Age.....	45
Joint Report on Urban Mass Transportation	45
President Kennedy’s Transportation Message	46
Federal-Aid Highway Act of 1962.....	46
Hershey Conference on Urban Freeways	47
Implementing the 1962 Act.....	48
Conventional Urban Travel Forecasting Process.....	50
Southeastern Wisconsin Regional Planning Commission	52
Highway Planning Program Manual.....	54
Urban Mass Transportation Act of 1964.....	54
Urban Development Simulation Models	55
The Urban Transportation Problem	56
Williamsburg Conference on Highways and Urban Development.....	57
Residential Location and Urban Mobility.....	57
6 Improving Intergovernmental Coordination.....	59
Housing and Urban Development Act of 1965.....	60
1966 Amendments to the Urban Mass Transportation Act	60
Highway and Motor Vehicle Safety Acts of 1966.....	60
Department of Transportation Act of 1966	62
National Historic Preservation Act of 1966.....	62
Demonstration Cities and Metropolitan Development Act of 1966	63
Dartmouth Conference on Urban Development Models	63
Freedom of Information Act of 1966	64
Reserved Bus Lanes	65
Reverse Commuting Experiments	66
National Highway Needs Studies	67
Federal-Aid Highway Act of 1968.....	69
“Continuing” Urban Transportation Planning	70
Intergovernmental Cooperation Act of 1968	71
Bureau of the Budget’s Circular No. A-95.....	71
7 Rising Concern for the Environment and Citizen Involvement.....	75
Citizen Participation and the Two-Hearing Process for Highways.....	75
National Environmental Policy Act of 1969.....	76
Environmental Quality Improvement Act of 1970	76
Nationwide Personal Transportation Study	77
Clean Air Act Amendments of 1970	78
Boston Transportation Planning Review	80

Urban Corridor Demonstration Program	81
Census Journey-to-Work Surveys	82
Case of Overton Park	83
8 Beginnings of Multimodal Urban Transportation Planning.....	87
Urban Mass Transportation Assistance Act of 1970	87
Federal-Aid Highway Act of 1970.....	89
Conference on Urban Commodity Flow.....	90
Discrete Choice Models.....	90
Mt. Pocono Conference on Urban Transportation Planning.....	92
DOT Initiatives Toward Planning Unification	93
Process Guidelines for Highway Projects.....	93
UMTA's External Operating Manual	94
Williamsburg Conference on Urban Travel Forecasting	95
Federal-Aid Highway Act of 1973.....	96
Endangered Species Act of 1973	97
AASHTO Policy on Geometric Design of Urban Highways	98
1972 and 1974 National Transportation Studies.....	99
National Mass Transportation Assistance Act of 1974	100
PLANPAC and UTPS Batteries of Computer Programs	100
9 Transition to Short-Term Planning	103
Emergency Energy Legislation	103
Service and Methods Demonstration Program	104
Taxicabs	105
OTA's Report on Automated Guideway Transit	107
Model 13(c) Labor Protection Agreement for Operating Assistance.....	108
Joint Highway/Transit Planning Regulations	109
Traffic Calming	111
Policy on Major Urban Mass Transportation Investments	112
Characteristics of Urban Transportation Systems.....	114
Light Rail Transit.....	116
Federal-Aid Highway Act of 1976.....	117
ITE Trip Generation Report	118
Urban System Study	119
Road Pricing Demonstration Program	119
Title VI Program Guidelines for FTA Recipients	120
National Transportation Trends and Choices.....	121
Transit Uniform System of Accounts and Records.....	122
Clean Air Act Amendments of 1977	123
10 Emphasizing Urban Economic Revitalization.....	125
1978 National Urban Policy Report.....	125
Surface Transportation Assistance Act of 1978	127
Quick Response Urban Travel Forecasting Techniques	128
National Energy Act of 1978	129

Council on Environmental Quality's Regulations	130
BART Impact Program	131
International Conferences on Behavioral Travel Demand.....	133
National Ridesharing Demonstration Program.....	134
Urban Initiatives Program.....	136
Section 504 Regulations on Accessibility for the Handicapped	137
National Transportation Policy Study Commission.....	138
Interstate Substitutions	139
Aspen Conference on Future Urban Transportation	140
Land Use Impacts of Beltways	141
Highway Performance Monitoring System	142
11 Decentralization of Decisionmaking.....	145
President Reagan's Memorandum on Regulations	145
Conferences on Goods Transportation in Urban Areas.....	146
Airlie House Conference on Urban Transportation Planning in the 1980s	147
Federal-Aid Highway Act of 1981.....	147
E.O. 12372, Intergovernmental Review of Federal Programs.....	148
Woods Hole Conference on Future Directions of Urban Public Transportation.....	149
Easton Conference on Travel Analysis Methods for the 1980s	150
Surface Transportation Assistance Act of 1982	151
Advent of Microcomputers	153
New Urban Transportation Planning Regulations	154
12 Promoting Private Sector Participation.....	157
Paratransit Policy	157
Transportation Management Associations	158
Revised Major Transit Capital Investment Policy	159
Transportation Demand Management.....	161
Private Participation in the Transit Program.....	162
Concurrency Management System	163
National Transit Performance Reports.....	164
Charter Bus Regulations	165
Surface Transportation and Uniform Relocation Assistance Act of 1987	167
National Conferences on Transportation Planning Applications	169
Smuggler's Notch Conference on Highway Finance.....	171
Revised FHWA/UMTA Environmental Regulation.....	171
Los Angeles' Regulation XV	172
13 The Need for Strategic Planning.....	175
National Council on Public Works Improvement	176
Transportation 2020	176
Williamsburg Conference on Transportation and Economic Development	178

Puget Sound Transportation Panel	179
National Transportation Strategic Planning Study.....	180
Intelligent Vehicle Highway Systems	181
Lawsuit Against the Metropolitan Transportation Commission's Travel Models	182
Geographic Information Systems	184
National Maglev Initiative	185
Clean Air Act Amendments of 1990	187
Strategic Planning and Management	191
Americans with Disabilities Act of 1990.....	192
Intermodal Surface Transportation Efficiency Act of 1991	193
Manual of Regional Transportation Modeling Practice for Air Quality Analysis	203
14 The Growth of Sustainable Development	205
Charlotte Conference on Moving Urban America	206
Travel Model Improvement Program	206
Livable Communities Initiative	207
Energy Policy Act of 1992.....	208
Transportation Implication of Telecommuting	208
Metropolitan and Statewide Planning Regulations.....	209
Transportation: Air Quality Conformity Regulations	211
Making the Land Use, Transportation, Air Quality Connection (LUTRAQ)	211
Transportation Management Systems.....	213
E.O. 12893 Principles for Federal Infrastructure Investment.....	213
E.O. 12898 on Environmental Justice.....	214
National Bicycling and Walking Study.....	215
Curbing Gridlock: Peak-Period Fees to Relieve Traffic Congestion	217
Conference on Institutional Aspects of Metropolitan Transportation Planning	219
Interstate-95 Corridor Coalition.....	220
Implications of Expanding Metropolitan Highway Capacity	221
State Route 91 Express Lanes in Southern California	221
National Highway System Designation Act of 1995	222
Major Investment Studies	224
Travel Survey Manual.....	225
Dulles Greenway.....	226
15 Expanding Participatory Democracy	229
Deployment of Intelligent Transportation Systems	230
Activity-Based Travel Forecasting Conference	231
Public Involvement	233
National Transportation System.....	234
State Infrastructure Banks.....	235
Travel Model Validation Manual	236

Envision Utah.....	238
Quick Response Freight Manual.....	240
Context Sensitive Design.....	241
Transportation Equity Act for the 21st Century.....	242
New Jersey's Transit Village Initiative	249
Welfare to Work: Job Access and Reverse Commute Program	250
Georgia Regional Transportation Authority.....	251
Congestion Management Systems	252
Value Pricing Pilot Program.....	253
Conferences on Refocusing Transportation Planning for the 21st Century	254
National Transportation Policy Architecture for the 21st Century	255
16 Moving Towards Performance Based Planning	259
Asset Management.....	260
Conference on Performance Measures in Planning and Operations.....	260
The Alameda Corridor	262
Freight Analysis Framework.....	263
Central Texas Regional Mobility Authority.....	265
Bus Rapid Transit.....	266
Access Management Manual	268
Transportation Security.....	269
Transit Capacity and Quality of Service Manual.....	270
Clean Air Rules of 2004.....	272
Scenario Planning	273
Public-Private Partnerships	274
Norman Y. Mineta Research and Special Programs Improvement Act.....	276
Transportation-Air Quality Conformity.....	277
Energy Policy Act of 2005.....	278
Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users	279
Forum on Road Pricing and Travel Demand Modeling.....	287
Interstate 50.....	289
Commuting in America III.....	290
National Strategy to Reduce Congestion on America's Transportation Network	292
Future Financing Options to Meet Highway and Transit Needs.....	294
17 Concern for Climate Change	299
California's Global Warming Solutions Act	299
Metropolitan Travel Forecasting: Current Practice and Future Direction	301
Conference on the Metropolitan Planning Organization, Present and Future.....	302
Chicago Region Environmental and Transportation Program.....	304
Corridors of the Future.....	305

Car Sharing	307
National Surface Transportation Policy and Revenue Study Commission	308
California's Sustainable Communities Planning Act	310
Potential Impacts of Climate Change on U.S. Transportation	312
Rail Passenger Investment and Improvement Act of 2008	314
American Recovery and Reinvestment Act of 2009	316
Effects of Compact Development on Motorized Travel	317
Partnership for Sustainable Communities	318
Executive Order 13514 Federal Leadership in Environmental, Energy, and Economic Performance	319
18 Era of Constrained Resources	323
National Surface Transportation Infrastructure Financing Commission	324
Advanced Practices in Travel Forecasting	325
MOVES Motor Vehicle Emissions Model	327
TIGER Discretionary Grant Program	328
Military Base Traffic	330
Increased Corporate Average Fuel Economy Standards	332
Revised Federal Transit Administration New Starts Evaluation Process	332
Florida's Transportation Planning Process	334
Super-Commuting in Mega Regions	336
Travel Demand Forecasting: Parameters and Techniques	337
Connected Vehicles	338
Moving Ahead for Progress in the 21st Century Act	339
19 Infrastructure Resilience	347
U.S. DOT Policy Statement on Climate Change Adaptation	347
Executive Order 13604: Improving Performance of Federal Permitting and Review of Infrastructure Projects	348
Complete Streets	350
Travel Forecasting Resource	351
President Obama's Climate Action Plan	353
Travel Time Reliability	355
Executive Order 13653: Preparing the United States for the Impacts of Climate Change	356
Transportation Climate Change Sensitivity Matrix	357
Build America Investment Initiative	358
Performance Management	359
Transportation Planning For Disasters	360
Smart Growth Area Planning Tool	362
Executive Order. 13690: Establishing a Federal Flood Risk Management Standard	362

20 Challenge of Funding	365
Beyond Traffic: Trends and Choices 2045.....	365
Transportation Network Companies	368
FTA's Simplified Trips-on-Project Software.....	370
States' Gas Taxes.....	370
Bumpy Roads Ahead.....	371
Executive Order 13604 Improving Performance of Federal Permitting and Review of Infrastructure Projects.....	372
Connected Vehicle Pilot Deployment Program	373
Health in Transportation	374
Activity-Based Travel Demand Models: A Primer	375
National Freight Strategic Plan.....	376
Big Data	378
Connected City.....	379
Fixing America's Surface Transportation Act.....	380
21 Concluding Remarks	391
Appendix A	397
Appendix B	401
Index	427

Urban Transportation Planning in the United States
History, Policy, and Practice

Weiner, E.

2016, XIV, 442 p. 37 illus., 15 illus. in color., Hardcover

ISBN: 978-3-319-39974-4