

# *Destination Tomorrow 2006*

Linking Our Communities – Advancing Our Region

2030 Long Range Transportation Plan

Adopted by the Policy Committee of the  
Portland Area Comprehensive Transportation Committee (PACTS)

June 2006

*Destination Tomorrow* 2003 was awarded the  
2003 Plan of the Year by the Maine Association of Planners  
and the  
2003 Outstanding Plan Award by the  
Northern New England Chapter of the American Planning Association

The Policy Committee will seek the acceptance of this Plan by the Federal Highway and Transit Administrations during the fall of 2006 after an air quality conformity analysis is completed for the Plan. The inputs and results of the analysis will be published as a separate document that will be an addendum to *Destination Tomorrow*.

# Table of Contents

	<b>Page</b>
Chapter 1: Executive Summary	
• Introduction	1-1
• PACTS – Organizational Overview	1-2
• Vision Statement, Goals & Guiding Policies	1-6
• Alternatives Explored	1-7
• Strategies	1-7
• Implementation	1-8
Chapter 2: Plan Background	
• PACTS – Organizational Overview	2-1
• PACTS Members and Their Roles	2-1
• <i>Destination Tomorrow</i> – The 2006 Regional Transportation Plan	2-4
• <i>Destination Tomorrow</i> – Goals and Objectives	2-6
• Plan Process and Public Outreach	2-9
• State and Federal Regulatory Context	2-10
Chapter 3: Present Conditions and Future Trends: Transportation and Land Use	
• Introduction	3-1
• The Transportation-Land Use Connection	3-2
• People, Households and Employment in the Region: 1960-2000	3-5
• Transportation Issue Survey of Greater Portland Residents	3-9
• Regional Travel Growth, Traffic Volumes, Patterns and Conditions	3-9
• Assessment of Current Levels of Congestion and System Performance	3-16
• The Passenger Transportation System	3-25
• Summary of Intermodal Issues and Opportunities	3-32
• Future Population, Employment and Land Use Development Trends	3-37
• Future Roadway Analysis	3-42
Chapter 4: Alternatives Analysis	
• Introduction	4-1
• Methodology for Alternatives Analysis	4-2
• The Transportation Themes: The Tested Alternatives & their Regional Benefits	4-7
○ Interstate Theme	4-7
○ Arterial Theme	4-14
○ Transit Theme	4-20
○ Compact Land Use Theme	4-28
• Selected Travel Times for Key Origins and Destinations	4-31
• Corridor-Specific Benefits of the Transportation Themes	4-33
• Summary of Key Findings of the Alternatives Analysis	4-33
• The “Best of” Transportation Package	4-39

## Table of Contents (con't.)

	<b>Page</b>
Chapter 5: Guiding Policies, Goals and Strategies	
• Introduction	5-1
• The Eight Guiding Policies	5-2
• Six Key Components of the Transportation System	5-4
• Goals, Objectives and Strategies	5-6
○ Economic Development	5-7
○ Mobility, Safety and Accessibility	5-10
○ Energy Conservation	5-20
○ Land Use	5-23
○ Environmental Quality	5-28
○ Regional Focus	5-30
Chapter 6: Finance Assessment: Regional Needs and Available Funding	
• Introduction	6-1
• Regional Transportation Needs	6-2
• Sources of funds	6-4
• The MPO Allocation	6-6
• Bridging the Funding Gap	6-8
Chapter 7 Implementation	
• Introduction	7-1
• Implementing Key Plan Policies	7-2
○ Major Regional Projects	7-5
• Closing thoughts	7-7
 <b><u>Appendices</u></b>	
Appendix A	Public Comments
Appendix B	Municipal Land Use Development Patterns and Trends
Appendix C	Major Corridors in the PACTS Region Transportation-related Issues & Opportunities
Appendix D	Intersection Capacity Analysis
Appendix E	Population and Employment Forecast Methodology & Data
Appendix F	Automobile Travel Time & Speed Delay Analyses
Appendix G	Corridor and Facility-Specific Impacts of the 2006 Transportation Theme Packages
Appendix H	Qualitative Performance Measure Strategy Evaluation for 2003 Plan

## List of Tables

		<b>Page</b>
Table 1-1	Capital investments framework for 2006-2025	1-10
Table 3-1	Population Changes in PACTS and Non-PACTS Municipalities	3-7
Table 3-2	Changes in Wage and Salary Employment 1980-2000	3-8
Table 3-3	Average Annual Daily Traffic (AADT) Volumes in the PACTS Area	3-11
Table 3-4	Miles of Roadway by Federal Functional Classification	3-14
Table 3-5	Intersection Capacity Analysis – Volume to Capacity (V/C) Ratio – Year 2001	3-19
Table 3-6	Intersection Capacity Analysis – Volume to capacity (V/C Ratio – Year 2004	3-20
Table 3-7	Crash Data Summary: 2002-2004	3-23
Table 3-8	Greater Portland Passenger Boardings 2004 and 2005	3-31
Table 3-9	Population & Household Forecasts: 2000-2025 – PACTS Model Area	3-38
Table 3-10	Forecast Total Employment: 2000-2025	3-40
Table 3-11	VMT and VHT Growth: 2000 to 2025	3-44
Table 3-12	Intersection Capacity Analysis (2003 Plan): Future Trend 2025	3-48
Table 3-13	Intersection Capacity Analysis (2006 Plan): Future Trend 2025	3-51
Table 4-1	Quantitative Criteria Values	4-5
Table 4-2	Annualized Quantitative	4-5
Table 4-3	Effects of a One Percent Change on the Transportation System	4-6
Table 4-4	Interstate Theme Strategies & Increments – 2003 & 2006	4-8
Table 4-5	2003 & 2006 Interstate Themes: System-wide Performance Measures	4-10
Table 4-6	2003 Interstate Theme Package Strategy Rating – Performance Criteria Matrix	4-13
Table 4-7	Arterial Theme Strategies and Increments	4-14
Table 4-8	Arterial Themes: System-wide Performance Measures	4-16
Table 4-9	2003 Arterial Theme Package Strategy Rating – Performance Criteria Matrix	4-19
Table 4-10	Transit Theme Strategies & Increments	4-21
Table 4-11	Transit Themes: System-wide Performance Measures	4-24
Table 4-12	2003 Transit Theme Package Strategy Rating – Performance Criteria Matrix	4-27
Table 4-13	Compact Land Use Scenario Benefits	4-29
Table 4-14	Forecast Population & Employment Growth Forecasts Used in the Compact Land Use Theme	4-30
Table 4-15	Summary Comparisons of 2003 Compact Land Use Theme VMT and VHT Results	4-31
Table 4-16	2003 Mode Split Results for Base Conditions And All Theme Increments	4-34
Table 4-17	2006 Mode Split & Number of Trips for Base Conditions & Theme	4-35
Table 4-18	2003 Plan: System-wide VMT Changes	4-37
Table 4-19	2003 Plan: System-wide VHT Changes	4-37
Table 4-20	VMT System-wide Changes: 2006 Plan	4-38
Table 4-21	VHT System-wide Changes: 2006 Plan	4-38

### List of Tables – continued

Table 4-22	2003 Plan Best-of Theme Strategies	4-41
Table 4-23	2006 Best-of Theme Strategies	4-44
Table 5-1	The Top Priority Strategies of <i>Destination Tomorrow</i>	5-7
Table 6-1	Twenty-Year Needs Analysis for 2006-2025	6-3
Table 6-2	Twenty-Year Capital Funds Available Estimate for 2006-2025	6-4
Table 6-3	Set-Asides for MPO Allocations	6-7
Table 7-1	Top Priority Strategies of <i>Destination Tomorrow</i>	7-4

## List of Figures

	<b>Page</b>	
Figure 1-1	The PACTS region	1-3
Figure 1-2	Funding Shortfall	1-9
Figure 2-1	The PACTS region	2-2
Figure 2-2	Urban/Suburban Population Changes in PACTS Region	2-5
Figure 3-1	Population in the PACTS Urban & Suburban Communities	3-3
Figure 3-2	VMT, Population & Employment Increases	3-4
Figure 3-3	Population in PACTS & non/PACTS Municipalities	3-6
Figure 3-4	Population in Urban Cities & Suburban Towns in PACTS Region	3-6
Figure 3-5	VMT & Population Growth in Cumberland County	3-10
Figure 3-6	Dispersion of Traffic Signals in the PACTS Region	3-12
Figure 3-7	P.M. Peak Hour Trips to & From PACTS Municipalities	3-13
Figure 3-8	Federal Functionally Classified Roadways	3-15
Figure 3-9	Major Corridors in PACTS Region	3-17
Figure 3-10	PM Peak Hour Congestion, Key Locations: 2000	3-21
Figure 3-11	Identified Roadway Issues	3-22
Figure 3-12	High Crash Locations: 2002-2004	3-24
Figure 3-13	Transit Providers Routes & Service Areas	3-27
Figure 3-14	Forecast Numeric Population Increases	3-39
Figure 3-15	Forecast Percent Population Increases	3-39
Figure 3-16	Employment Forecast PACTS Model Area: Numeric Change	3-41
Figure 3-17	Employment Forecast PACTS Model: Percent Change	3-41
Figure 3-18	PACTS Model Area	3-43
Figure 3-19	PM Peak-Hour Traffic Growth on Major Roadway Corridors	3-45
Figure 3-20	2006 V/C Segment Analysis for Northern Part of PACTS	3-46
Figure 3-21	2006 V/C Segment Analysis for Southern Part of PACTS	3-47
Figure 3-22	Intersection Capacity Analysis for 2003 Plan	3-50
Figure 3-23	Intersection Capacity Analysis (2006 Plan) Future Trend 2025	3-52
Figure 4-1	2003 Interstate Theme	4-9
Figure 4-2	2006 Interstate Theme	4-9
Figure 4-3	Interstate Theme: System-wide Changes in VMT	4-11
Figure 4-4	Interstate them: System-wide Changes in VHT	4-12
Figure 4-5	2003 Arterial Theme	4-15
Figure 4-6	2006 Arterial Theme	4-15
Figure 4-7	Arterial Theme: System-wide Changes in VMT	4-17
Figure 4-8	Arterial Theme: System-wide Changes in VHT	4-17
Figure 4-9	2003 Transit Theme: Increments 1 & 2	4-22
Figure 4-10	2003 Transit Theme Increment 3A: Bus Rapid Transit	4-22
Figure 4-11	2003 Transit Theme: Increment 3B: Rail	4-23
Figure 4-12	Transit Theme: System-wide Changes in VMT	4-25
Figure 4-13	Transit Theme: System-wide Changes in VHT	4-25
Figure 4-14	2003 Compact Land Use Development Areas	4-29
Figure 4-15	2003 Plan: Best-of Theme: 2004-2009	4-40
Figure 4-16	2003 Plan: Best-of Theme: 2010-2025	4-40

### **List of Figures – continued**

Figure 4-17	Comparison of Changes in Regional VMT for 2003 Plan Themes	4-42
Figure 4-18	Comparison of Changes in Regional VHT for 2003 Plan Themes	4-42
Figure 4-19	2006 Plan: Best-of Theme	4-43
Figure 4-20	Comparison of Changes in System-wide VMT for 2006 Themes	4-46
Figure 4-21	Comparison of Changes in System-wide VHT for 2006 Themes	4-46
Figure 5-1	Interstate Highway Recommendations	5-15
Figure 5-2	Interstate High Recommendations (Inset to Figure 5-1)	5-16
Figure 6-1	Funding Shortfall	6-8
Figure 7-1	Major Regional Projects	7-6