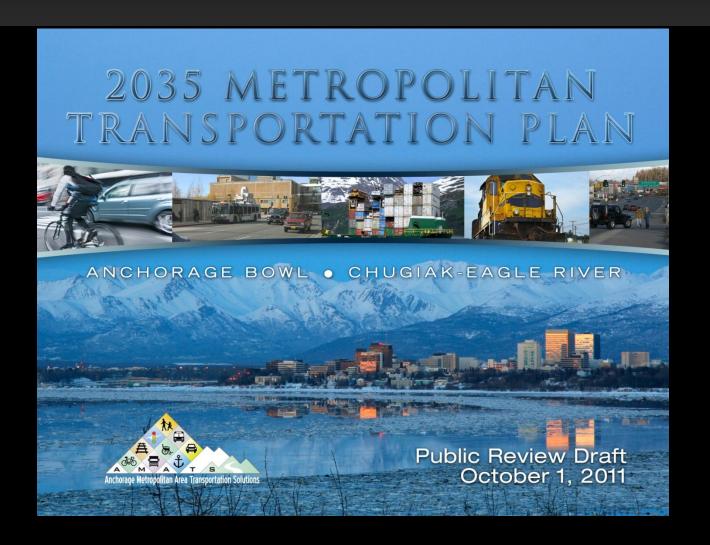
AMATS 2035 Metropolitan Transportation Plan (MTP) Update

House Finance Infrastructure Committee Briefing
November 4, 2011











2035 MTP Overview

- Transportation System Plan Check-up
- Major Assumptions and Guidance for Plan
 - Plan to horizon year 2035
 - Combining Anchorage Bowl & Chugiak-Eagle River LRTPs
 - Include guiding principles and confirm Goals & Objectives
 - Compliance with federal transportation legislation (SAFETEA-LU)
 - Conduct Public Participation activities
 - Financially constrain the recommendations
 - Use AMATS travel demand model





AMATS 2035 Metropolitan Transportation Plan

- Chapter 1 Introduction
- Chapter 2 Public Involvement
- Chapter 3 Plans, Goals and Objectives
- Chapter 4 AMATS Transportation System Today
- Chapter 5 Metropolitan Area Transportation in 2035
- Chapter 6 Financial Plan
- Chapter 7 Recommendations
- Chapter 8 Implementation





Chapter 1 - Introduction

- Community Vision and Planning Continuum
 - Anchorage 2020 & Chugiak-Eagle River comprehensive plans
 - Chugiak-Eagle River & Anchorage Bowl 2027 LRTPs
 - Subarea land use and transportation plans
- Meeting the Regulatory Requirements
- Coordination
- AMATS Policy Committee Guidance & Assumptions





Chapter 2 – Public Involvement

- Provide community awareness of the planning process
- Identify stakeholders
- Gather community issues
- Raise awareness of the plan review and approval process





Chapter 3 – Goals and Objectives

- Balanced network, provides choices, and <u>supports land</u>
 <u>use plans</u>
- Safe and secure movement of people and goods
- Cost effective, attractivenetwork that fits thecommunity values
- Supports thriving,
 <u>sustainable</u>, <u>broad-based</u>
 <u>economy</u>

- Provide community

 <u>connectivity with year</u>

 <u>round, multi-modal system</u>
- Improve <u>access and</u>
 mobility for people and
 goods
- Provide viable choices
- Respect integrity of <u>community's natural and</u> <u>built environment</u>





Chapter 4 – AMATS Today

Accomplishments since 2007

- 14 major road projects completed
- 8 miles of pathway/trails, 35 miles new sidewalks & 31 miles new bicycle facilities
- \$103 M expended → 8,446 Jobs created or maintained

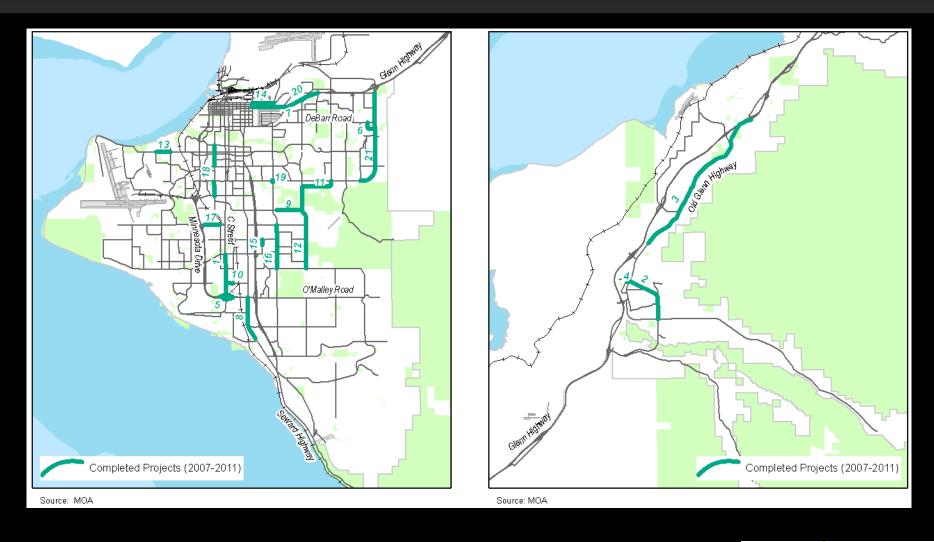
Status of the System Report

- Corridor travel times similar or better between 2007 and 2010
- Bus ridership increase since 2007 over 4 million annual
- Increased vanpool riders 162% increase since 2005





Completed Projects (2007-2011)





Population, Housing, and Employment

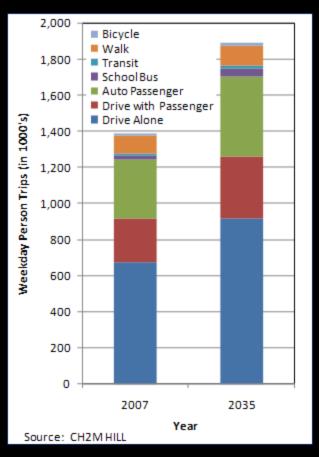
Demographics	2007	2035 Forecast	Numeric Change			
Population						
Anchorage Bowl	243,080	280,720	37,640			
Chugiak-Eagle River	37,460	65,020	27,560			
Mat-Su Borough	72,700	159,050	86.350			
Total	353,240	504,790	151,550			
Households						
Anchorage Bowl	90,800	111,880	21,080			
Chugiak-Eagle River	11,710	22,350	10,640			
Mat-Su Borough	27,610	59,170	31,560			
Total	130,120	193,400	63,280			
Employment (includes self-employed)						
Anchorage Bowl	159,000	198,040	39,040			
Chugiak-Eagle River	4,700	10,160	5,460			
Mat-Su Borough	29,000	63,720	34,720			
Total	192,700	271,920	79,220			







Weekday Person Trips (2007 and 2035)



560,000 more daily trips in 2035 and more congestion

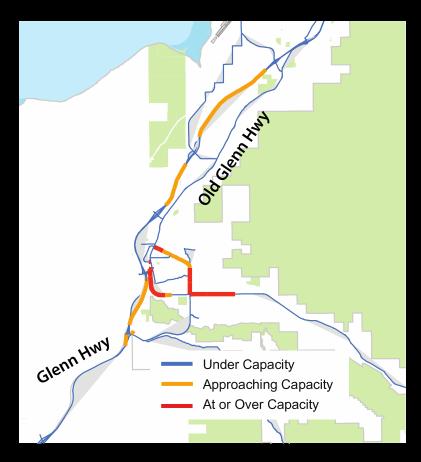




2035 No Build Conditions Anchorage Bowl



2035 No Build Conditions Chugiak-Eagle River







Multi-modal System Approach

- Roads Public Transportation
- Non-motorized Congestion Management
- Freight Distribution– Regional Connections

> 2035 Network Scenarios Modeled

- 2035 Base (projects from 2027 LRTPs)
- 2035 Base Plus (projects from adopted studies since 2007)
- 2035 Public Transportation Enhancements





2035 Transportation System Needs

- Roads - 80 projects

\$ 2,877 M

− Public Transportation − 25 projects

\$ 198 M

− Non-motorized − 115 projects

<u>\$ 126 M</u>

- Total

\$3,201 M

*Project costs are in 2010 dollars











Chapter 6 – Financial Analysis

- Fiscal Constraint Requirement
- Funding Sources and Levels
- Capital and Operations & Maintenance Costs
- Knik Arm Crossing





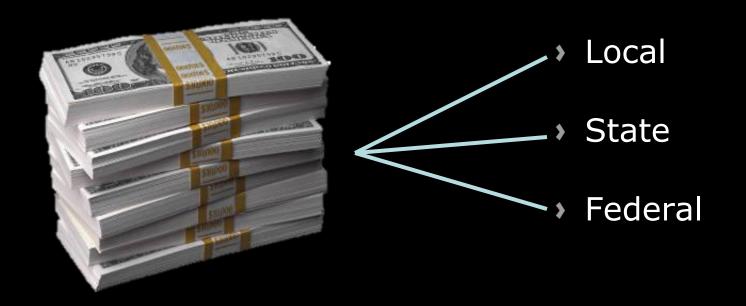
Chapter 6 – Financial Analysis

- Fiscal Constraint Requirement
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Revenue Assumptions







Revenue Assumptions - Federal

- FTA Funds to MOA and ARRC
- FHWA Funds for NHS Projects
- > FHWA Funds for Non-NHS Projects (AMATS Allocation)
- HSIP Funds
- Federal Highway Other Discretionary Funds
- > 40% of the projected revenue is from Federal sources



Revenue Assumptions - State

- 5 yr. Average of Legislative appropriations to MTP projects
- Alaska Transportation Fund Established in 2016
- State GO Bond every 6 years
- AK Mental Health Trust Funding for Transit
- State Match for 90% of all Non-NHS Funds
- 56% of the projected revenue is from State sources





Revenue Assumptions - Local

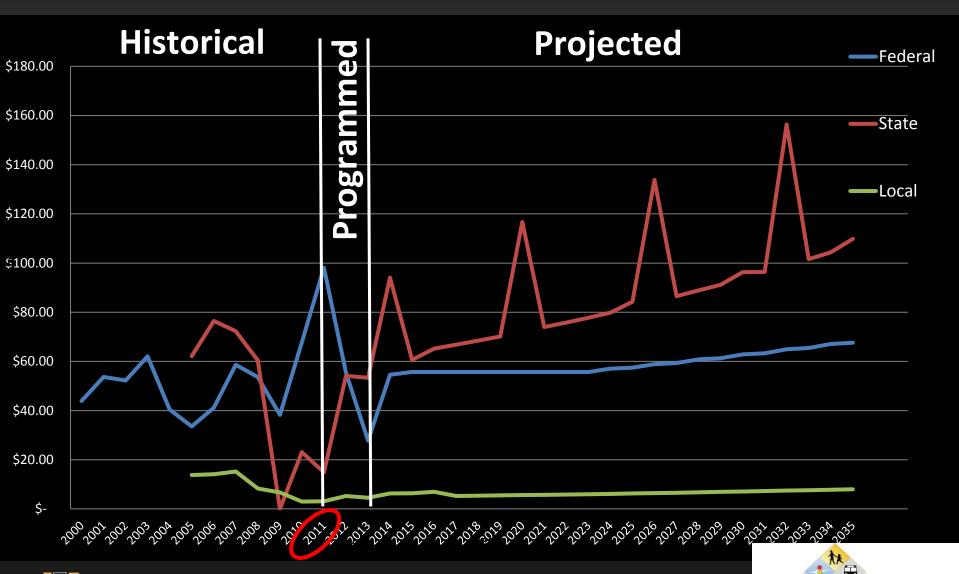
- ▶ 2011 2016 CIP Average for MOA Bonds
- 20% Match to Transit FTA Funds
- > 50% Local Match for Transportation Enhancements a CMAQ funds to MOA

4% of the projected revenue is from local sources





Historical, Programmed and Projected Revenue





Local/State/Federal Revenues through 2035

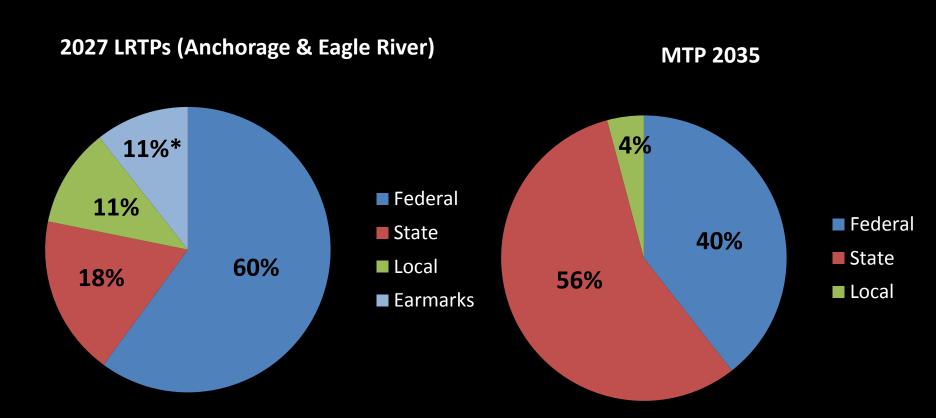
(Excluding Knik Arm Crossing)







Projected Revenue Sources



^{*}These include Legislative Transportation Earmarks (\$160M) and Railroad Grade Separation Earmarks (\$130M)





Knik Arm Crossing Funding

(Source: KABATA)

Funding Sources

_	Private Activity Bonds	\$	285M
_	TIFIA* Loan	\$	306 M
_	Private Equity	\$	76 M
_	Federal and State Funds	\$	35M
_	Project Reserve Fund	\$	150 M
_	Toll Revenue & Toll backed financing	\$	230 M
	Total	\$ 1	,082 M

Fund Uses

_	Phase I DBOM **	<i>\$</i>	702 M
_	Phase II Design & Build	<i>\$</i>	230 M
_	Project Reserve Fund	<u>\$</u>	150 M
	Total	\$ 1	.082 M

^{*} Transportation Infrastructure Finance & Innovation Act

^{**} Design, build, operate, and maintain





AMATS 2035 MTP Assumptions for Knik Arm Crossing

- The "firewall" for KABATA receiving additional State funds for construction has been removed.
- AMATS and KABATA reliance on State funds are independent of one another.
- The MTP accepts KABATA's assumed traffic projections on when Phase II would be required.





Chapter 7 – Recommendations

Project Screening

- Table 7-1 Roads
- Table 7-4 Public Transportation
- Table 7-7 Pedestrian, Bicycle, and Trails

Project Recommendations

- Short Term (2011-2023)
- Long Term (2024-2035)
- Illustrative (beyond 2035 timeframe)





MTP Project Summary

Roads - 56 Projects

\$2,106 million

Public Transportation - 24 Projects \$175.6 million

Non-motorized - 109 Projects

\$83.8 million

Total

\$2,265.4 million

- Illustrative Projects
 - 24 Road projects \$771 million
 - 1 Public Transportation project \$22 million
 - 6 Non-motorized projects, \$42.1 million

^{*}Project costs are in 2010 dollars

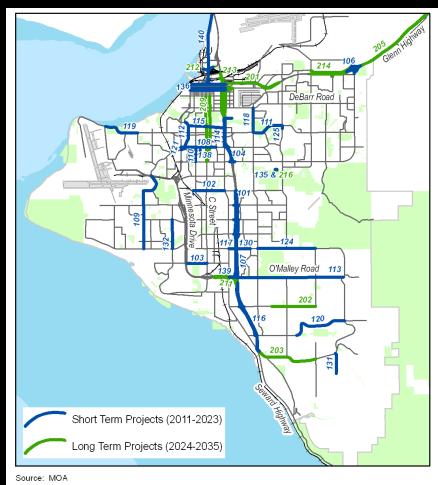


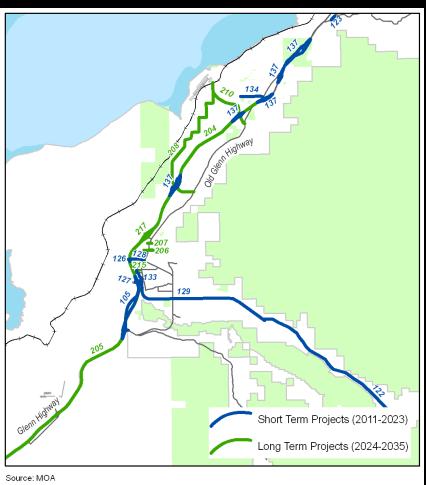


Recommended Road Projects

Anchorage Bowl

Chugiak-Eagle River







Project Updates

Seward Highway to Glenn Highway Connection

PHASE 1 PHASE 2 PHASE 3 Seward Hwy. PHASE 3 P

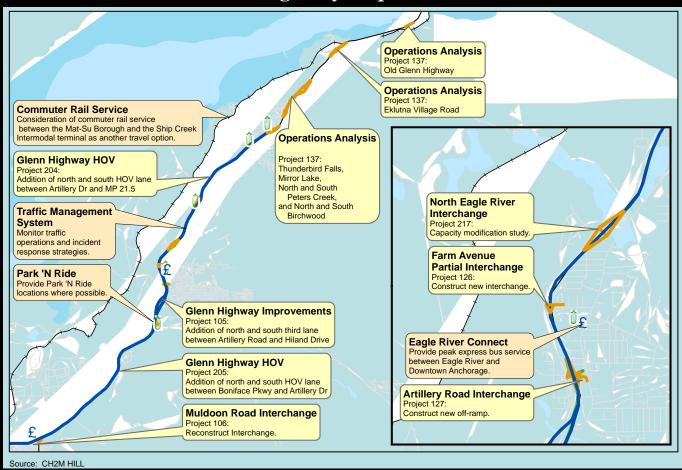
Knik Arm Crossing





Project Updates

Glenn Highway Improvements

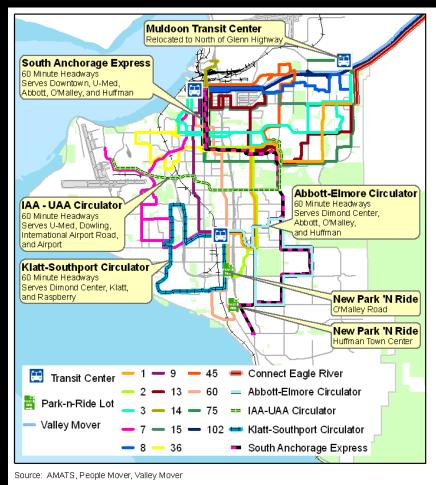




Recommended Public Transportation Routes and Projects

Anchorage Bowl

Chugiak-Eagle River



New Park 'N Ride North Birchwood Loop Road New Park 'N Ride South Birchwood Loop Road Route 102 60 Minute Headways Extended to Trunk Road Park 'n Ride with access to Eagle River Transit Center New Park 'N Ride Hiland Road Transit Center Park-n-Ride Lot Valley Mover Connect Eagle River 102 60 Minute Headways Serves Eagle River Transit Center Connect Eagle River and Downtown Anchorage Transit Center

Source: AMATS, People Mover, Valley Mover



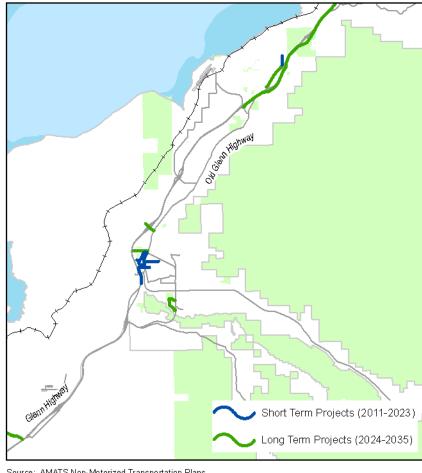
Recommended Non-motorized Projects

Anchorage Bowl

O'Malley Road Short Term Projects (2011-2023) Long Term Projects (2024-2035)

Source: AMATS Non-Motorized Transportation Plans

Chugiak-Eagle River







Chapter 8 – Implementation

- Policy and Action Items Recommendations
 - Comprehensive plans
 - Public Involvement
 - Roads
 - Non-motorized system
 - Regional Connections
 - Coordination of Local Plans
 - Maintenance and Operations
 - Environmental Concerns, Air Quality, and Public Health
- Process From MTP to Project Implementation



- Transportation System
- Public Transportation
- Freight
- Congestion Management





Action Items Recommendations

Action Item Recommendations - Transportation System

Action	Responsible Entity	Timeframe	Partnership Connections	Applicable Goal(s)
TS-A Develop multimodal LOS standards within the Anchorage metropolitan area in accordance with 2010 <i>Highway Capacity Manual</i> procedures	AMATS	0-2 years	MOA Traffic MOA Project Management and Engineering (PME) MOA Public Transportation DOT&PF	1, 6
TS-B Reevaluate the existing set of transportation system performance measures and the need for additional data-collection efforts.	AMATS	0-2 years	MOA Traffic MOA PME MOA Public Transportation DOT&PF	1, 2, 6
TS-C Conduct periodic (4-year cycle) systemwide review of traffic conditions and system performance using updated data (Status of the System Report).	AMATS	2014 2018 2022, etc.	MOA Traffic MOA PME MOA Public Transportation DOT&PF	1, 2
TS-D Collect new traffic data, including volume and travel time before and after a roadway construction is completed and new traffic patterns are established.	AMATS	Ongoing	MOA Traffic DOT&PF	1
TS-E Investigate modifications to the roadway LOS standards within the Anchorage metropolitan area.	AMATS	0-2 years	DOT&PF	1.



Review and Approval Schedule

October 2011

- Public Review Draft Available for 30-day comment period
- Planning & Zoning Work Session (October 10)
- Public Meetings (October 24 (ANC) and October 25 (C-ER)
- Briefings to community groups (various dates)

November 2011

- Team prepares Public Hearing Draft

December 2011

- Public Hearing Draft released by Policy Committee
- Planning & Zoning Commission Work Session (December 12)

January – April 2012

- Planning & Zoning Commission Public Hearing
- Anchorage Assembly Hearings
- AMATS TAC & PC adoption
- Submittal to FHWA/FTA





Questions





Initial Screening Criteria - Roadway

Criterion	0	1	3	5
Project readiness	No work started	Some preliminary design and/or environmental work complete	Final engineering completed or nearing completion	ROW purchased/ ready to construct
Timing of need	Can wait until beyond 2035	Long term need (2023-2035)	Needed in short term – helps to complete grid system or improves facility to current standards	Needed in short term (2011-2023)- addresses major safety/ capacity needs
Logical sequencing	N/A	New project	N/A	Next logical or final phase of project
Functional classification	Local	Collector	Arterial/ Expressway	Freeway
Number of modes	Single	Two	Three	Four or more
Cost/Length/AADT	4 th quartile	3 rd quartile	2 nd quartile	1 st quartile (highest score)





Initial Screening Criteria – Public Transportation

Criterion	Points
Timing of need	Short term - 10 points Middle term – 5 points Long term - 0 points
Inclusion in plans	Blueprint, MTP, & CMP – 2 points each ADA Paratransit & State Air Quality - 4 points each 10 points maximum
Project effectiveness	Greater than 50 benefiting passengers – 10 points 25 to 50 benefiting passengers – 5 points Less than 25 benefiting passengers – 0 points
Reliability of service	Decreased service interruptions – 10 points No change in service interruptions – 5 points Increased service interruptions – 0 points
Efficiency of service	Increase – 20 points No change – 10 points Decrease – 0 points
Safety considerations	10 points maximum





Initial Screening Criteria – Non-motorized

Criterion	0	1	3	5
Project readiness	Negative public comments	No known issues	Positive public support	Design work initiated
Project need	Upgrade of an existing facility versus no existing facility	Lower demand and non-safety related project	Medium demand and safety related project	Addresses major safety issue and/or high demand
Inclusion in plans	Not in an existing plan	In one plan	In two plans	In three plans
Primary purpose of project	Does not serve utilitarian users	Completes a gap in existing recreational trail network	Low to moderate utilitarian use	High utilitarian use



